

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\  
 Data File : VD061803.D  
 Acq On : 16 Apr 2019 9:30  
 Operator : VA/AP  
 Sample : BFB  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 17 01:33:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 16 08:53:01 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc     | Units     | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-----------|----------|
| 1) Pentafluorobenzene         | 7.08   | 168  | 3533     | 50.00    | ug/l      | -0.02    |
| 34) 1,4-Difluorobenzene       | 8.24   | 114  | 2259     | 50.00    | ug/l      | -0.02    |
| 63) Chlorobenzene-d5          | 12.37  | 117  | 4154     | 50.00    | ug/l      | -0.02    |
| 72) 1,4-Dichlorobenzene-d4    | 14.52  | 152  | 3433     | 50.00    | ug/l      | -0.02    |
| System Monitoring Compounds   |        |      |          |          |           |          |
| 33) 1,2-Dichloroethane-d4     | 0.00   | 65   | 0        | 0.00     | ug/l      |          |
| Spiked Amount                 | 50.000 |      | Recovery | =        | 0.00%     |          |
| 35) Dibromofluoromethane      | 0.00   | 113  | 0        | 0.00     | ug/l      |          |
| Spiked Amount                 | 50.000 |      | Recovery | =        | 0.00%     |          |
| 50) Toluene-d8                | 10.42  | 98   | 2558     | 63.26    | ug/l      | -0.02    |
| Spiked Amount                 | 50.000 |      | Recovery | =        | 126.52%   |          |
| 62) 4-Bromofluorobenzene      | 13.56  | 95   | 195096   | 11903.08 | ug/l      | -0.02    |
| Spiked Amount                 | 50.000 |      | Recovery | =        | 23806.16% |          |
| Target Compounds              |        |      |          |          |           |          |
|                               |        |      |          |          | Qvalue    |          |
| 2) Dichlorodifluoromethane    | 1.60   | 85   | 1424     | 41.296   | ug/l #    | 42       |
| 3) Chloromethane              | 1.78   | 50   | 181      | 6.586    | ug/l #    | 43       |
| 5) Bromomethane               | 2.15   | 94   | 434      | 72.782   | ug/l #    | 12       |
| 7) Trichlorofluoromethane     | 2.57   | 101  | 639      | 14.446   | ug/l #    | 16       |
| 9) 1,1,2-Trichlorotrifluoroet | 3.19   | 101  | 652      | 16.531   | ug/l #    | 62       |
| 10) Methyl Iodide             | 3.36   | 142  | 2887     | 46.142   | ug/l #    | 66       |
| 16) Acetone                   | 3.24   | 43   | 7123     | 976.058  | ug/l #    | 84       |
| 17) Carbon Disulfide          | 3.40   | 76   | 1434     | 13.385   | ug/l #    | 75       |
| 20) Methylene Chloride        | 3.85   | 84   | 28551    | 861.535  | ug/l      | 96       |
| 23) Vinyl Acetate             | 5.11   | 43   | 1774     | 34.350   | ug/l #    | 77       |
| 25) 2-Butanone                | 6.10   | 43   | 217      | 26.119   | ug/l #    | 56       |
| 29) Tetrahydrofuran           | 6.50   | 42   | 2443     | 603.647  | ug/l #    | 80       |
| 31) Cyclohexane               | 6.99   | 56   | 932      | 20.785   | ug/l #    | 83       |
| 36) 1,1-Dichloropropene       | 7.17   | 75   | 239      | 12.947   | ug/l #    | 40       |
| 37) Ethyl Acetate             | 6.10   | 43   | 217      | 27.466   | ug/l #    | 64       |
| 39) Methylcyclohexane         | 8.89   | 83   | 611      | 31.874   | ug/l #    | 50       |
| 40) Benzene                   | 7.47   | 78   | 1345     | 30.349   | ug/l #    | 51       |
| 41) Methacrylonitrile         | 6.49   | 41   | 992      | 106.231  | ug/l #    | 42       |
| 43) Isopropyl Acetate         | 9.57   | 43   | 1305     | 117.377  | ug/l #    | 43       |
| 44) Trichloroethene           | 8.56   | 130  | 450      | 26.377   | ug/l      | 6        |
| 51) 4-Methyl-2-Pentanone      | 10.35  | 43   | 378      | 55.596   | ug/l #    | 37       |
| 52) Toluene                   | 10.52  | 92   | 1406     | 49.507   | ug/l #    | 56       |
| 53) t-1,3-Dichloropropene     | 10.94  | 75   | 709      | 41.465   | ug/l #    | 42       |
| 54) cis-1,3-Dichloropropene   | 10.05  | 75   | 225      | 11.210   | ug/l #    | 34       |
| 55) 1,1,2-Trichloroethane     | 11.24  | 97   | 191      | 19.959   | ug/l #    | 16       |
| 59) 2-Hexanone                | 11.55  | 43   | 446      | 88.320   | ug/l #    | 27       |
| 61) 1,2-Dibromoethane         | 11.81  | 107  | 191      | 16.232   | ug/l #    | 1        |
| 64) Tetrachloroethene         | 11.27  | 164  | 252      | 8.089    | ug/l #    | 68       |
| 65) Chlorobenzene             | 12.40  | 112  | 1767     | 22.841   | ug/l #    | 87       |
| 67) Ethyl Benzene             | 12.53  | 91   | 2576     | 20.793   | ug/l #    | 79       |
| 68) m/p-Xylenes               | 12.52  | 106  | 708      | 15.214   | ug/l      | 83       |
| 69) o-Xylene                  | 13.05  | 106  | 704      | 16.095   | ug/l      | 96       |
| 70) Styrene                   | 13.08  | 104  | 2336     | 31.034   | ug/l #    | 83       |
| 73) Isopropylbenzene          | 13.42  | 105  | 3141     | 14.108   | ug/l      | 98       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\  
 Data File : VD061803.D  
 Acq On : 16 Apr 2019 9:30  
 Operator : VA/AP  
 Sample : BFB  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

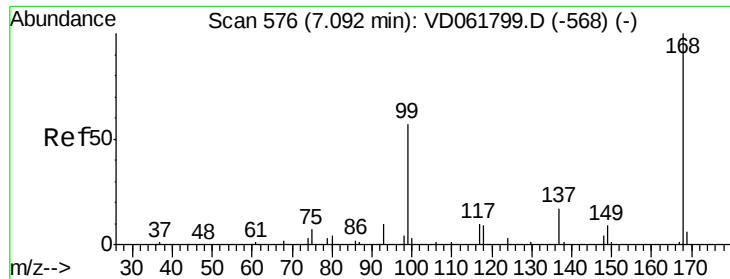
Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 17 01:33:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 16 08:53:01 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| -----                          |       |      |          |          |        |          |
| 74) N-amyl acetate             | 13.28 | 43   | 189      | 3.157    | ug/l # | 49       |
| 77) Bromobenzene               | 13.67 | 156  | 1077     | 17.029   | ug/l # | 61       |
| 78) n-propylbenzene            | 13.78 | 91   | 3892     | 15.130   | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 13.84 | 91   | 1959     | 13.037   | ug/l   | 83       |
| 80) 1,3,5-Trimethylbenzene     | 13.94 | 105  | 2876     | 16.280   | ug/l   | 70       |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 74133    | 4739.344 | ug/l # | 16       |
| 82) 4-Chlorotoluene            | 13.95 | 91   | 3653     | 21.239   | ug/l   | 89       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 2195     | 10.582   | ug/l   | 88       |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 4109     | 23.139   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 14.37 | 105  | 3229     | 15.058   | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 14.49 | 119  | 2487     | 12.396   | ug/l   | 92       |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146  | 2952     | 26.737   | ug/l   | 86       |
| 88) 1,4-Dichlorobenzene        | 14.54 | 146  | 3711     | 34.002   | ug/l   | 96       |
| 89) n-Butylbenzene             | 14.80 | 91   | 2936     | 16.532   | ug/l   | 78       |
| 90) Hexachloroethane           | 15.01 | 117  | 429      | 7.845    | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 2227     | 24.080   | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene     | 15.95 | 180  | 2790     | 54.927   | ug/l   | 97       |
| 94) Hexachlorobutadiene        | 16.05 | 225  | 875      | 23.770   | ug/l # | 55       |
| 95) Naphthalene                | 16.12 | 128  | 6164     | 79.172   | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene     | 16.27 | 180  | 1770     | 61.148   | ug/l   | 93       |
| -----                          |       |      |          |          |        |          |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 574

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

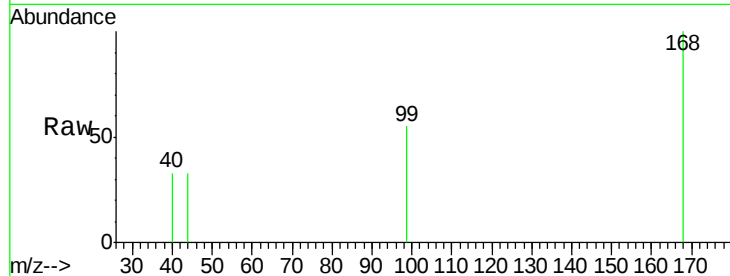
ClientSampleId :

Tot Ion:168 Resp: 3533

Ion Ratio Lower Upper

168 100

99 54.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.08

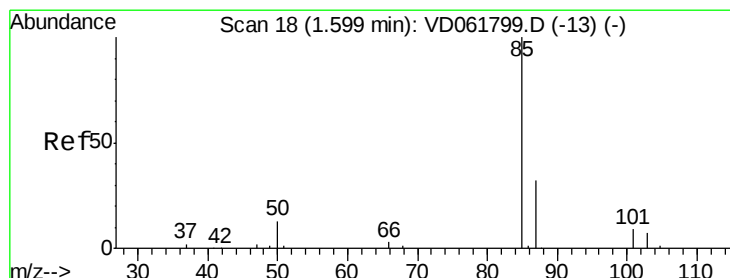
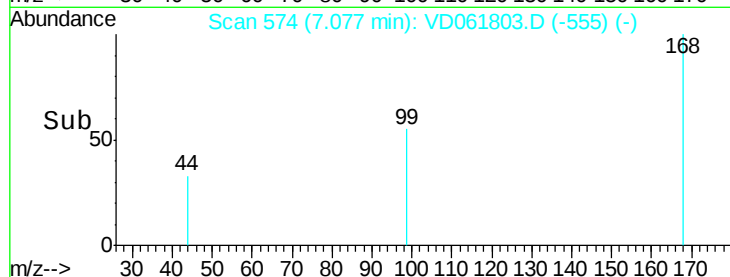
1500

1000

500

0

Time-->



#2

Dichlorodifluoromethane

Concen: 41.296 ug/l

RT: 1.60 min Scan# 18

Delta R.T. 0.00 min

Lab File: VD061803.D

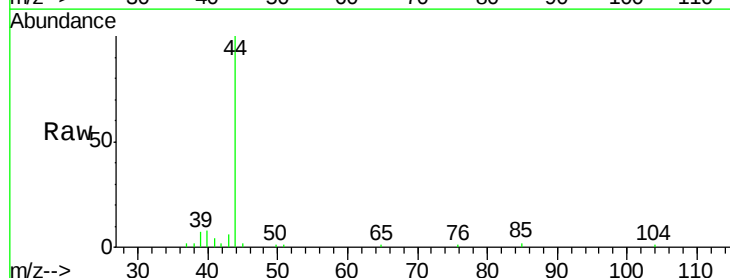
Acq: 16 Apr 2019 9:30

Tgt Ion: 85 Resp: 1424

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.6#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

800

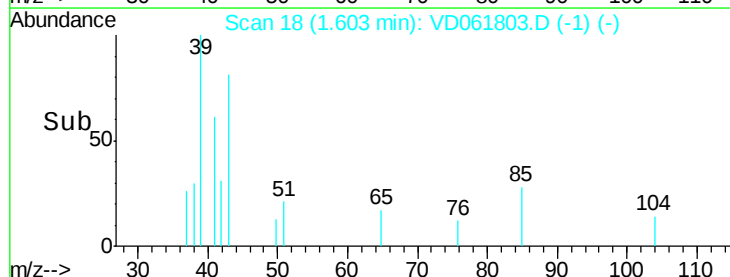
600

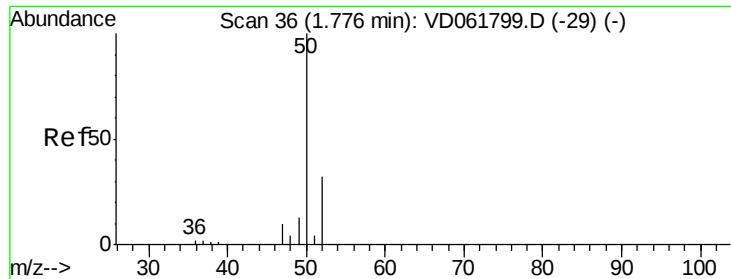
400

200

0

Time-->





#3

Chloromethane

Concen: 6.586 ug/l

RT: 1.78 min Scan# 36

Delta R.T. 0.00 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

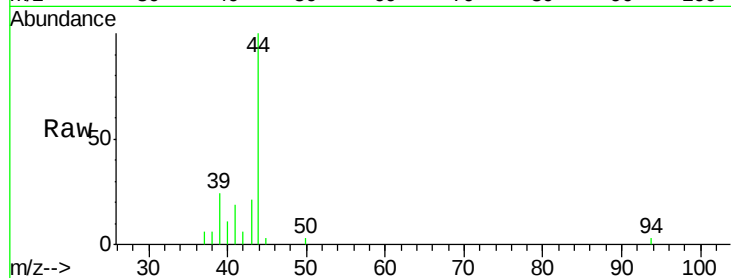
ClientSampleId :

Tot Ion: 50 Resp: 181

Ion Ratio Lower Upper

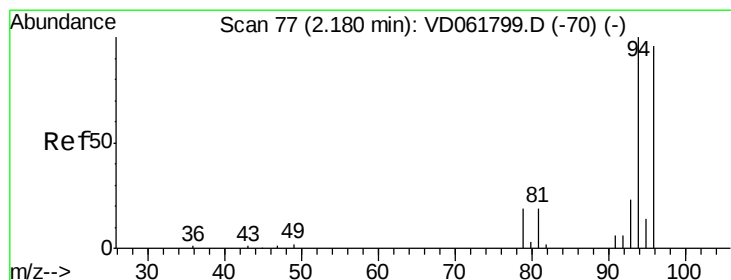
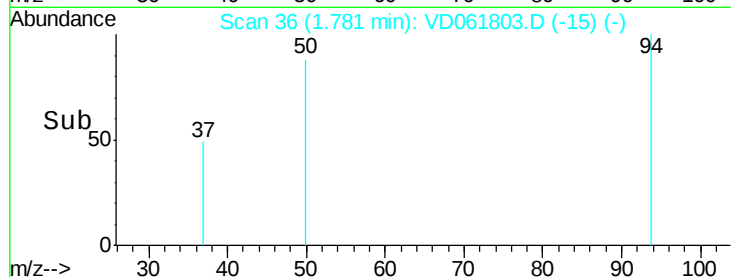
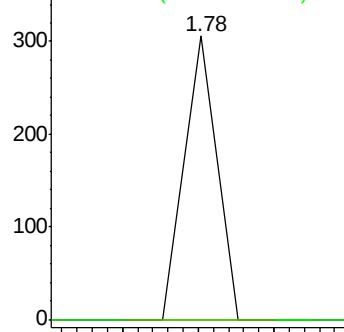
50 100

52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#5

Bromomethane

Concen: 72.782 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

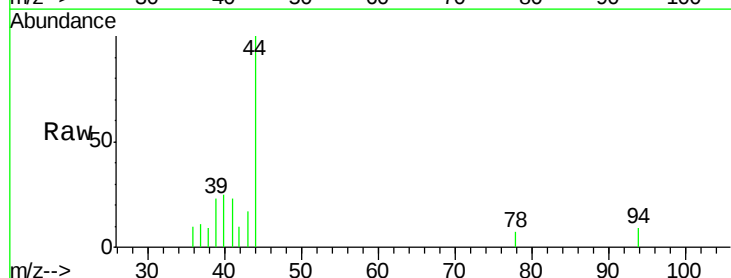
Tgt Ion: 94 Resp: 434

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

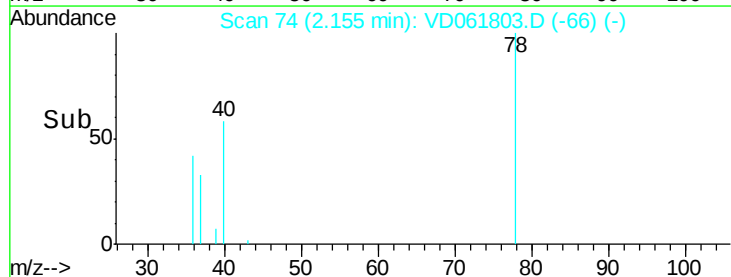
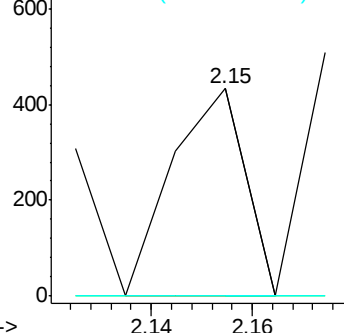
93 0.0 18.5 27.7#

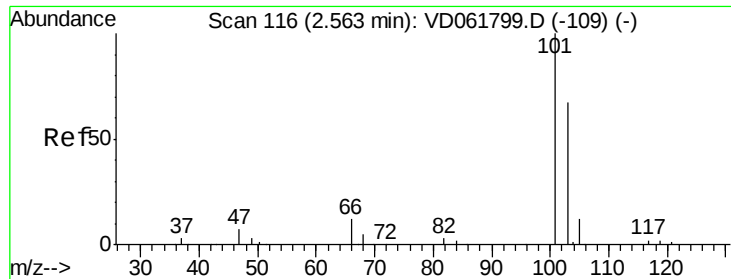


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



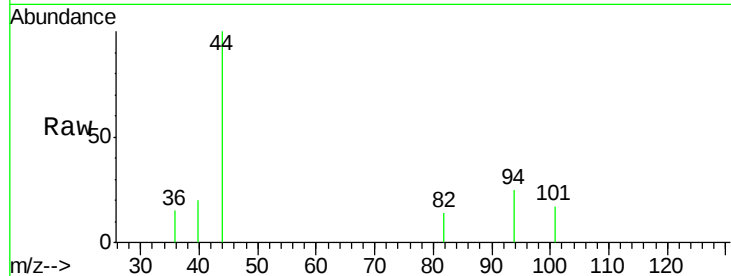


#7

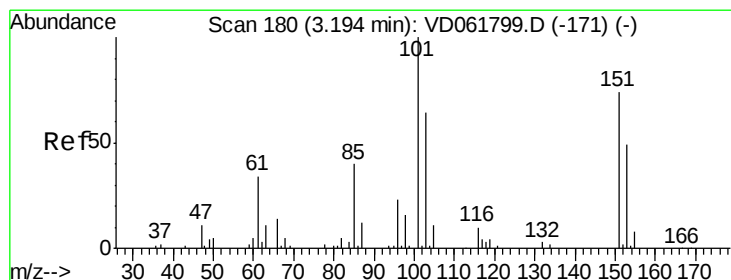
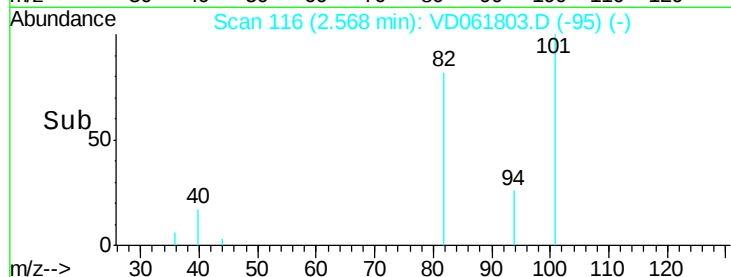
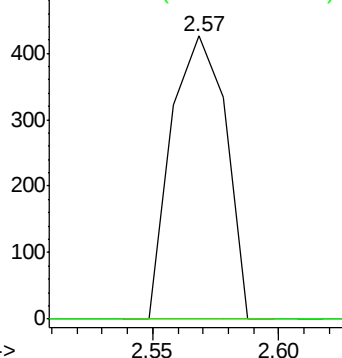
Trichlorofluoromethane  
 Concen: 14.446 ug/l  
 RT: 2.57 min Scan# 116  
 Delta R.T. 0.00 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:101 Resp: 639  
 Ion Ratio Lower Upper  
 101 100  
 103 0.0 53.6 80.4#



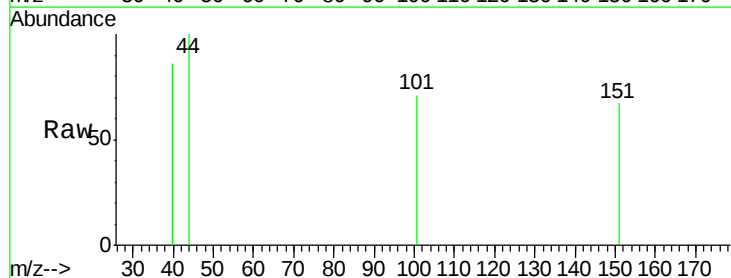
Abundance Ion 100.85 (100.55 to 101.55): V  
 Ion 102.85 (102.55 to 103.55): V



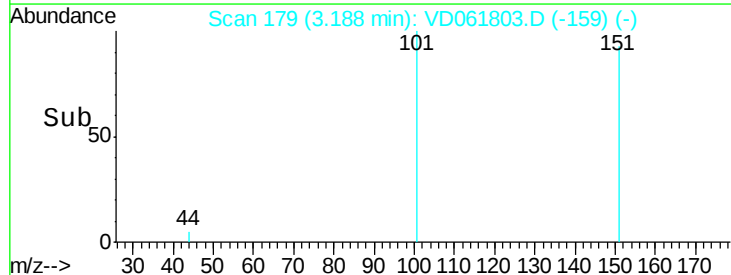
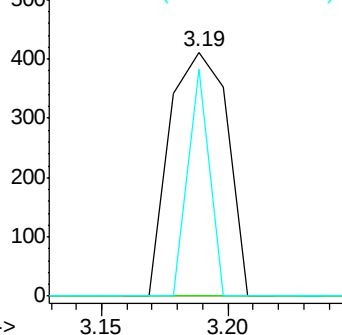
#9

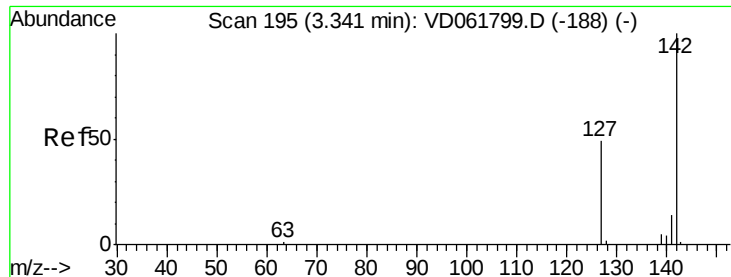
1,1,2-Trichlorotrifluoroethane  
 Concen: 16.531 ug/l  
 RT: 3.19 min Scan# 179  
 Delta R.T. -0.01 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Tgt Ion:101 Resp: 652  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 32.4 48.6#  
 151 93.4 59.4 89.0#



Abundance Ion 100.85 (100.55 to 101.55): V  
 Ion 84.95 (84.65 to 85.65): VD  
 Ion 150.90 (150.60 to 151.60): V

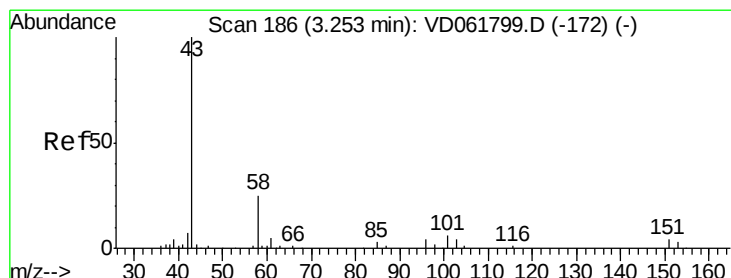
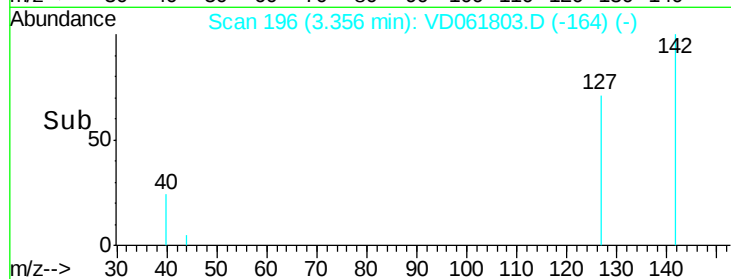
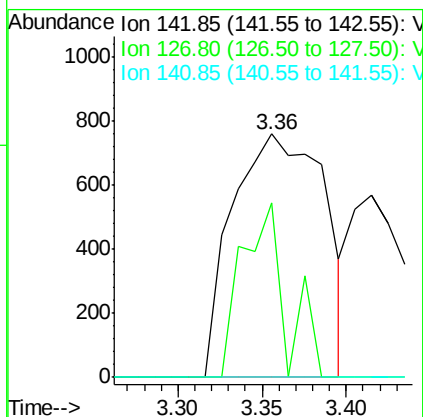
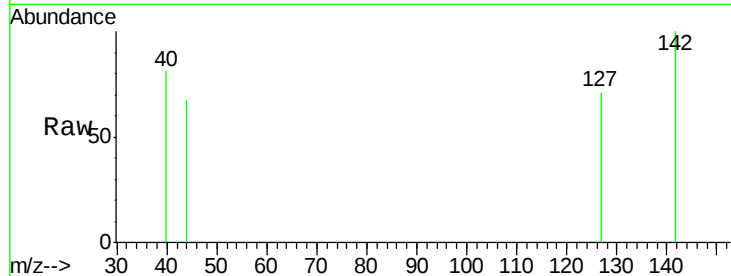




#10  
Methvl Iodide  
Concen: 46.142 ug/l  
RT: 3.36 min Scan# 196  
Delta R.T. 0.01 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

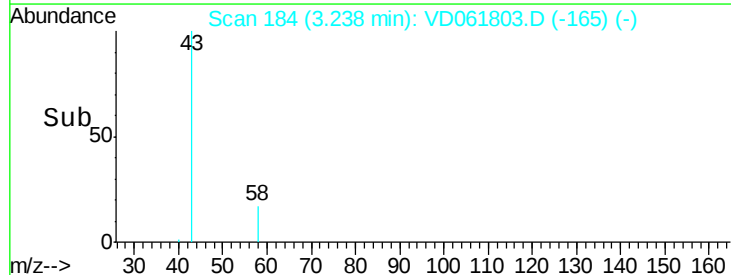
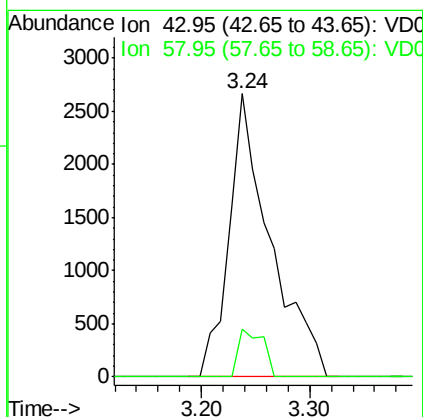
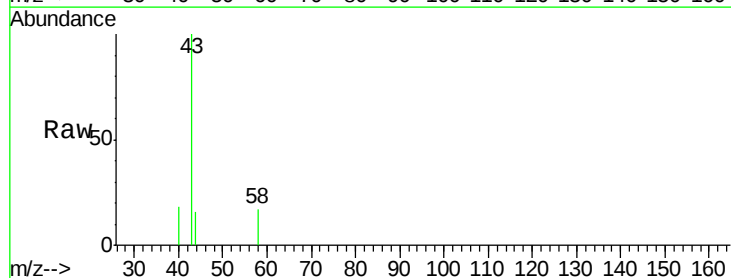
Instrument :  
MSVOA\_D  
ClientSampleId :

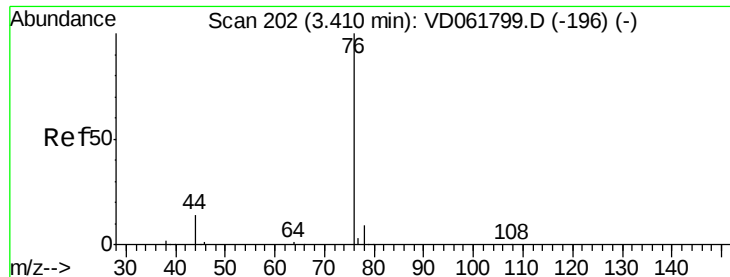
Tot Ion:142 Resp: 2887  
Ion Ratio Lower Upper  
142 100  
127 71.4 38.8 58.2#  
141 0.0 11.4 17.0#



#16  
Acetone  
Concen: 976.058 ug/l  
RT: 3.24 min Scan# 184  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion: 43 Resp: 7123  
Ion Ratio Lower Upper  
43 100  
58 16.8 19.9 29.9#

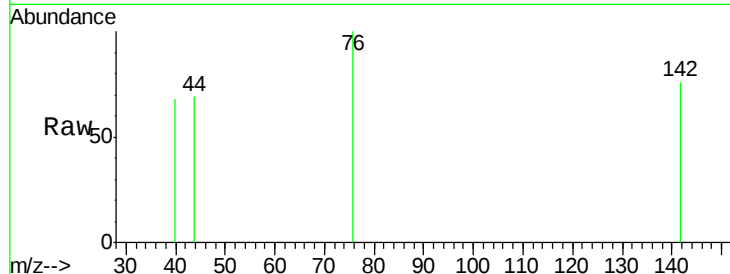




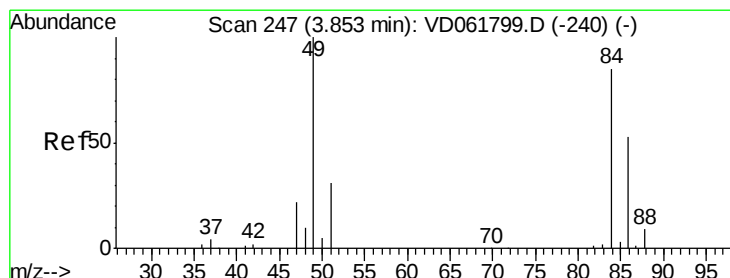
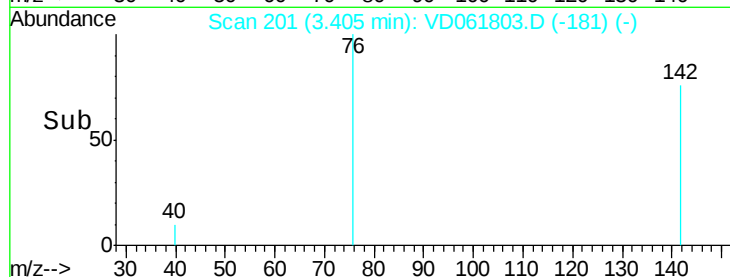
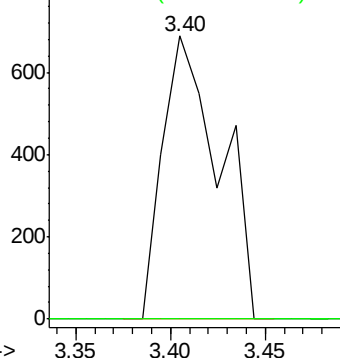
#17  
Carbon Disulfide  
Concen: 13.385 ug/l  
RT: 3.40 min Scan# 201  
Delta R.T. -0.01 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 76 Resp: 1434  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#

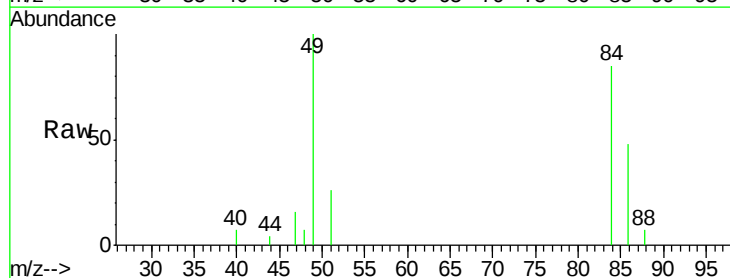


Abundance Ion 75.85 (75.55 to 76.55): VDC  
Ion 77.85 (77.55 to 78.55): VDC

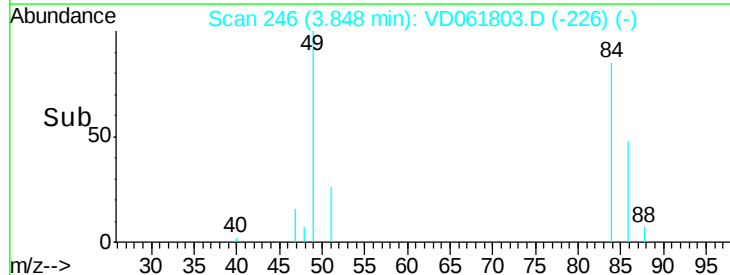
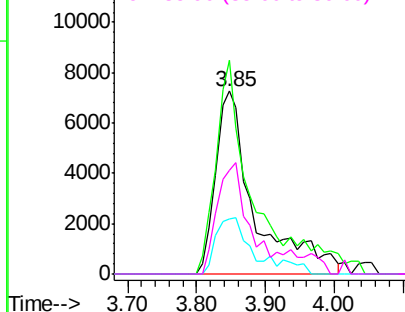


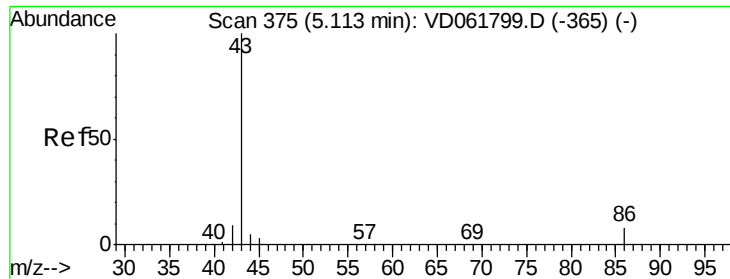
#20  
Methylene Chloride  
Concen: 861.535 ug/l  
RT: 3.85 min Scan# 246  
Delta R.T. -0.01 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion: 84 Resp: 28551  
Ion Ratio Lower Upper  
84 100  
49 117.0 94.0 141.0  
51 29.9 29.0 43.4  
86 56.7 49.8 74.6



Abundance Ion 83.95 (83.65 to 84.65): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC





#23

Vinyl Acetate

Concen: 34.350 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.01 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

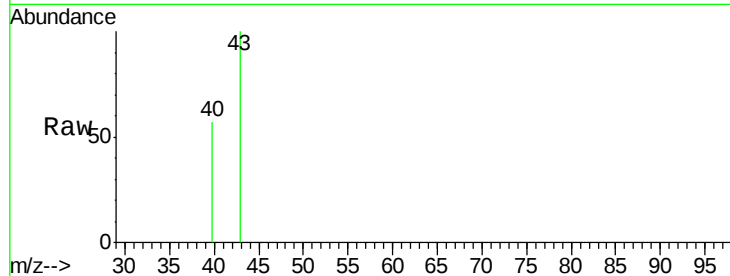
ClientSampleId :

Tot Ion: 43 Resp: 1774

Ion Ratio Lower Upper

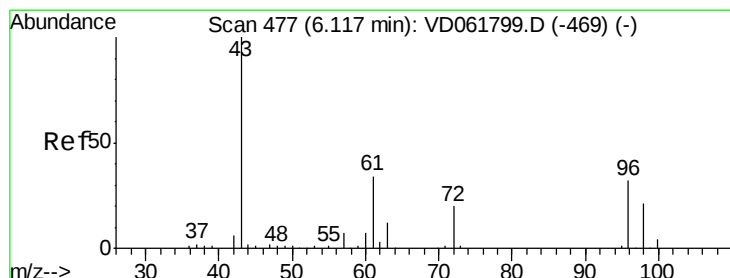
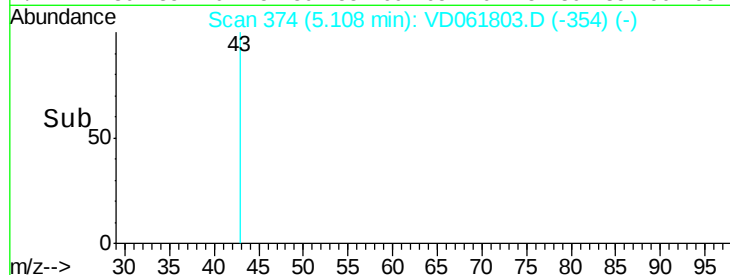
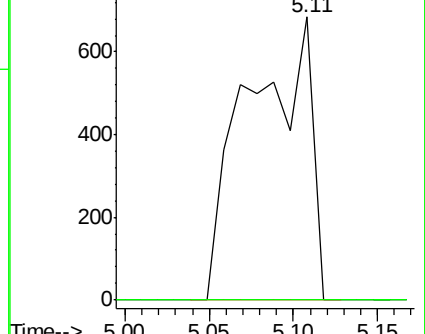
43 100

86 0.0 6.4 9.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#25

2-Butanone

Concen: 26.119 ug/l

RT: 6.10 min Scan# 475

Delta R.T. -0.02 min

Lab File: VD061803.D

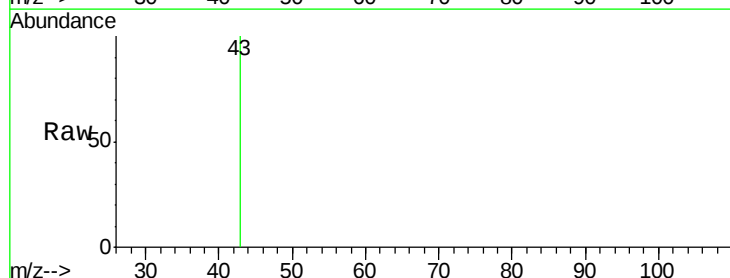
Acq: 16 Apr 2019 9:30

Tgt Ion: 43 Resp: 217

Ion Ratio Lower Upper

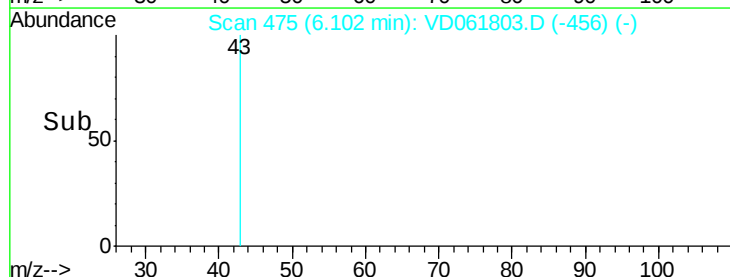
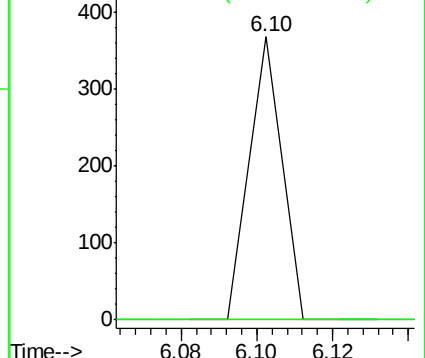
43 100

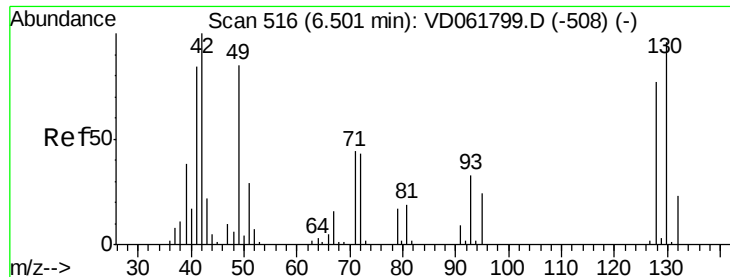
72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 603.647 ug/l

RT: 6.50 min Scan# 515

Delta R.T. -0.01 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

ClientSampleId :

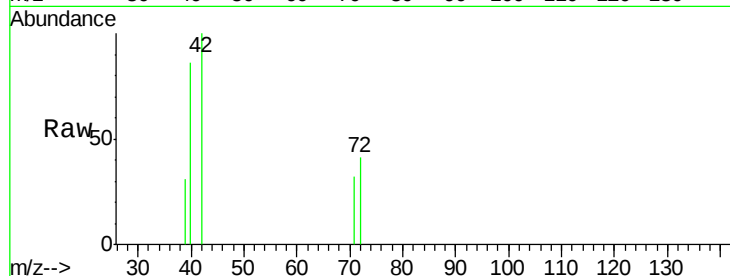
Tot Ion: 42 Resp: 2443

Ion Ratio Lower Upper

42 100

72 27.7 37.8 56.6#

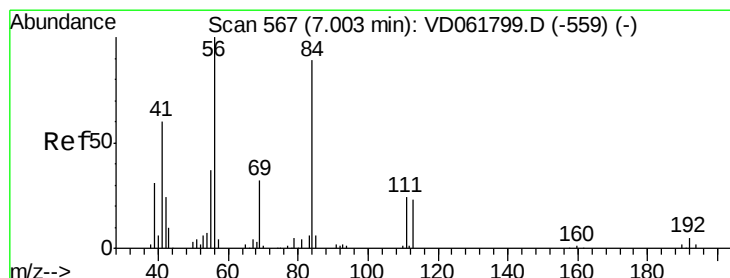
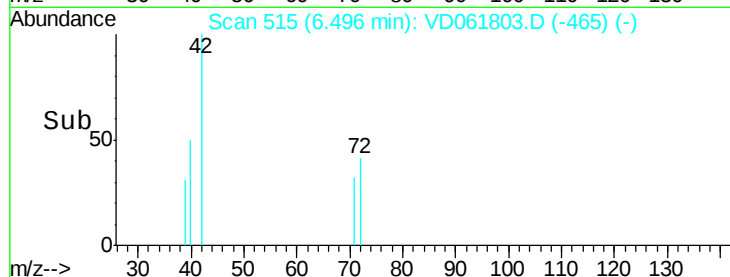
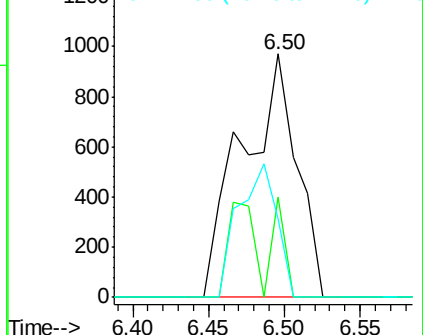
71 38.4 36.7 55.1



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 20.785 ug/l

RT: 6.99 min Scan# 565

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

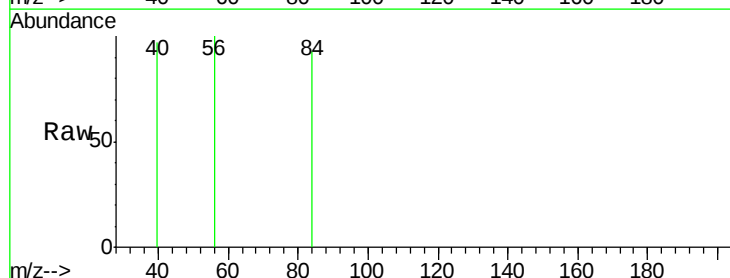
Tgt Ion: 56 Resp: 932

Ion Ratio Lower Upper

56 100

69 0.0 25.8 38.6#

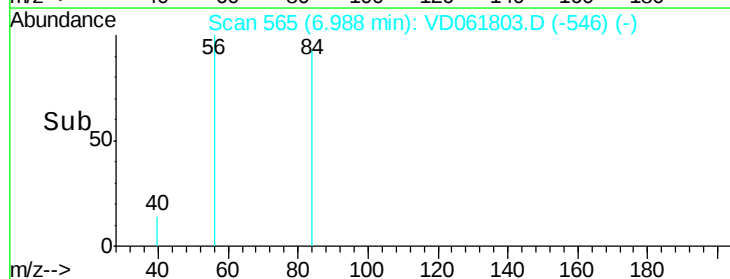
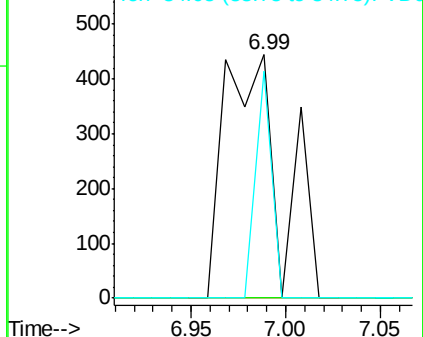
84 93.2 72.2 108.4

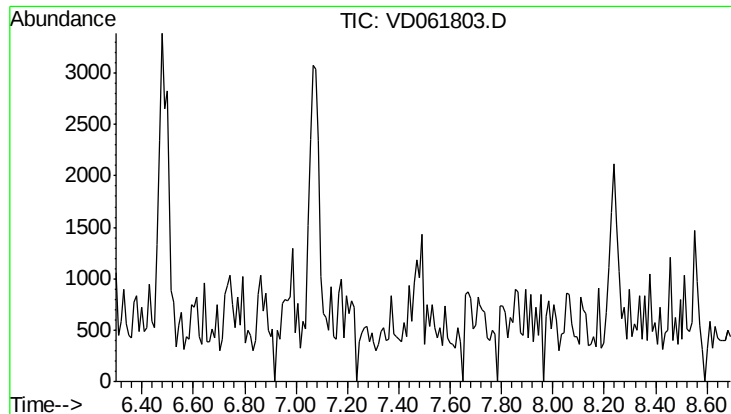


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

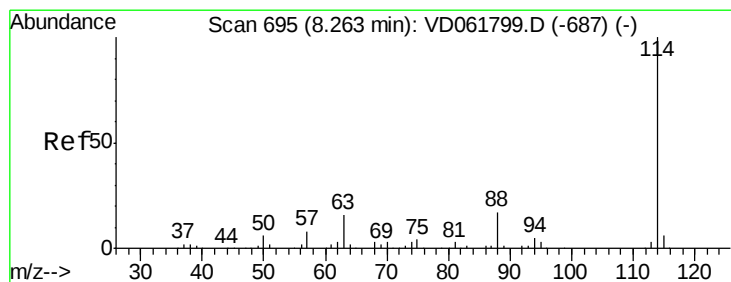
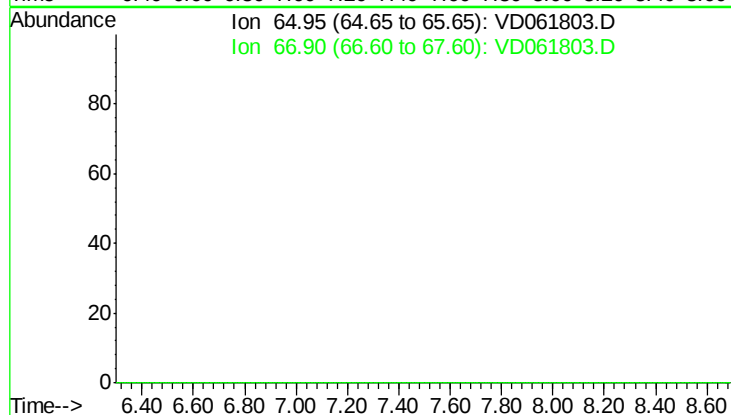




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 Expected RT: 7.50 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

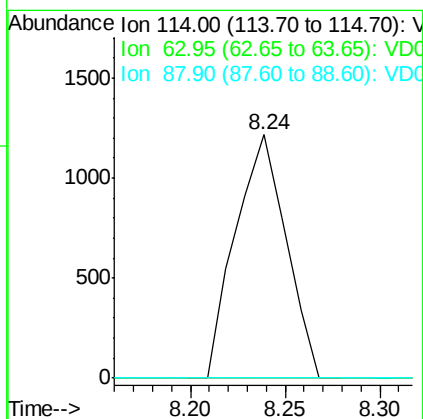
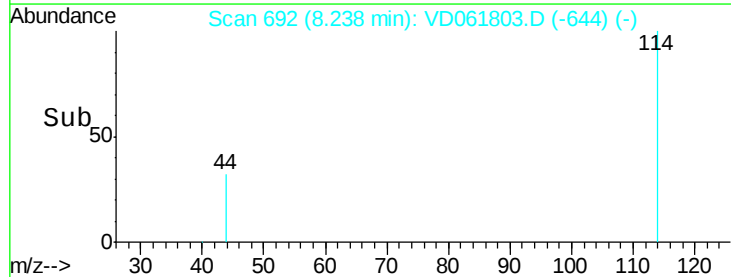
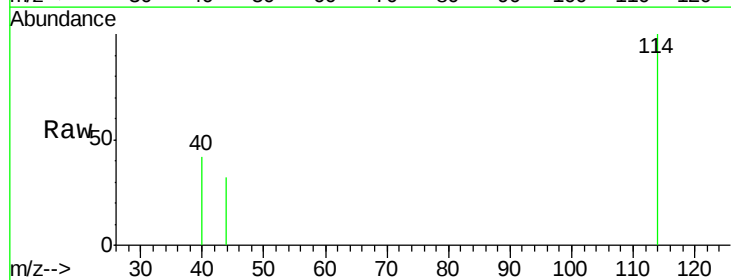
Instrument :  
 MSVOA\_D  
 ClientSampleId :

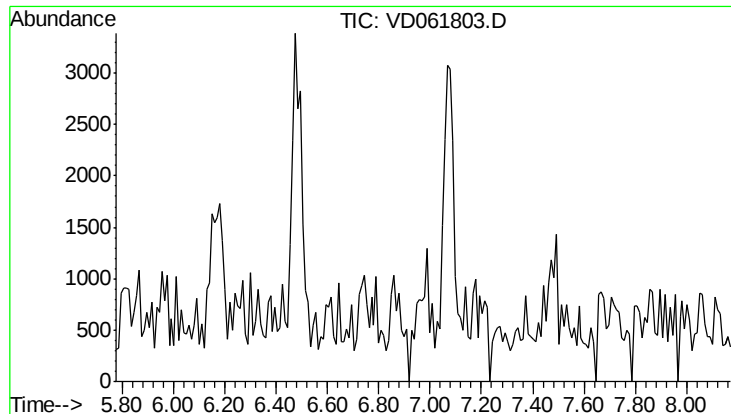
Tot Ion: 65  
 Sig Exp Ratio  
 65 100  
 67 49.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.24 min Scan# 692  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Tgt Ion: 114 Resp: 2259  
 Ion Ratio Lower Upper  
 114 100  
 63 0.0 0.0 32.4  
 88 0.0 0.0 33.6

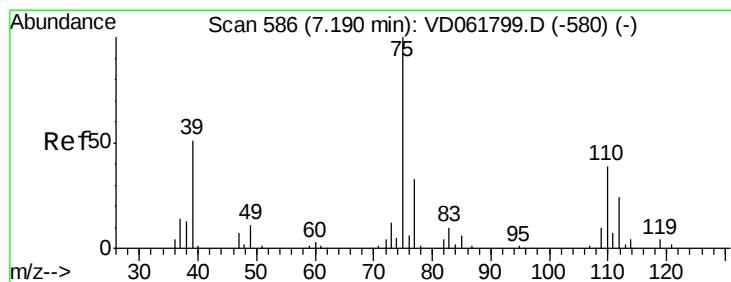
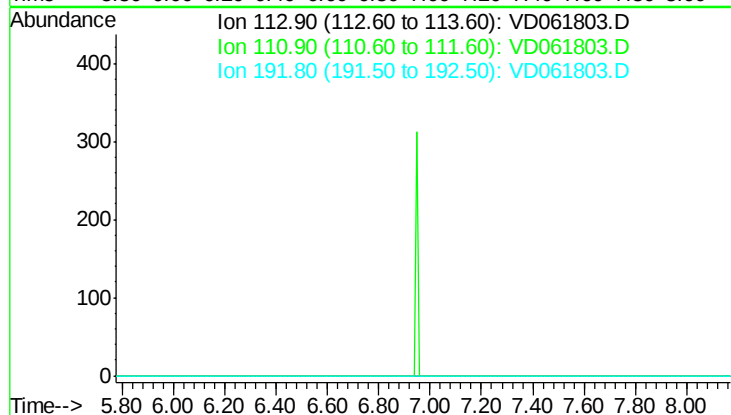




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 Expected RT: 6.97 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

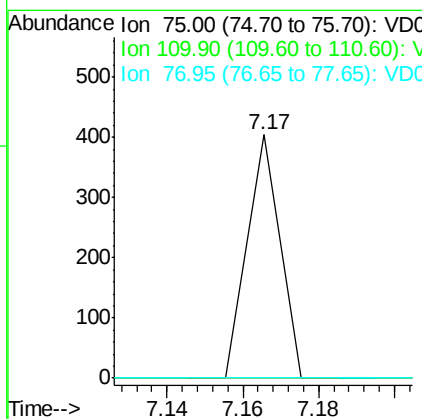
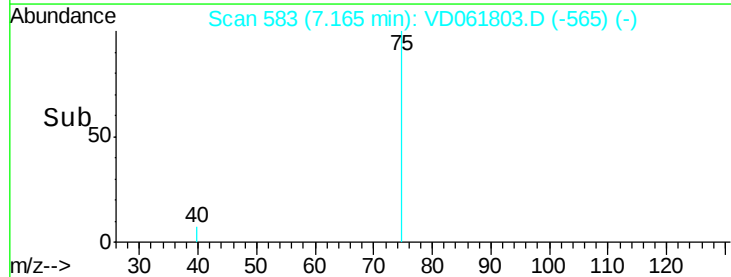
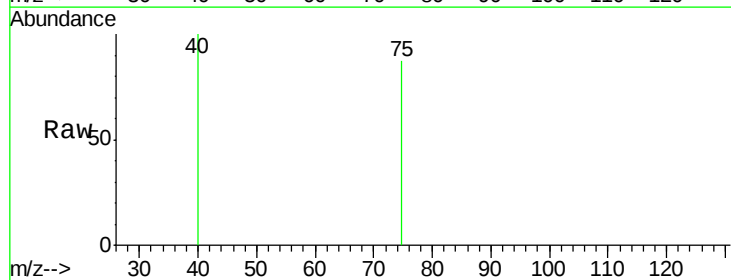
Instrument :  
 MSVOA\_D  
 ClientSampleId :

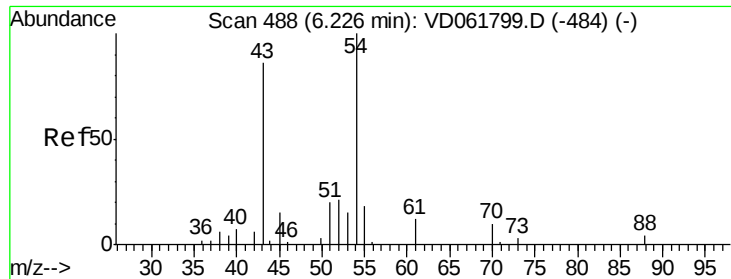
Tot Ion: 113  
 Sig Exp Ratio  
 113 100  
 111 98.1  
 192 16.2



#36  
 1,1-Dichloropropene  
 Concen: 12.947 ug/l  
 RT: 7.17 min Scan# 583  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Tgt Ion: 75 Resp: 239  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 19.1 57.1#  
 77 0.0 25.6 38.4#

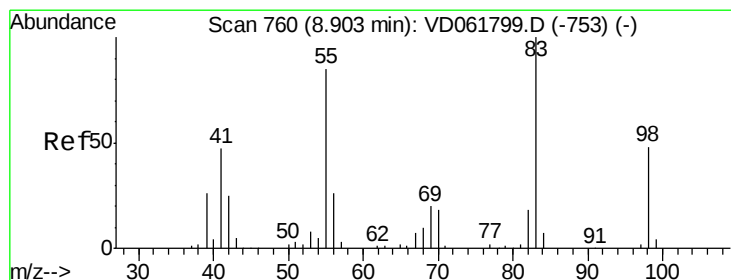
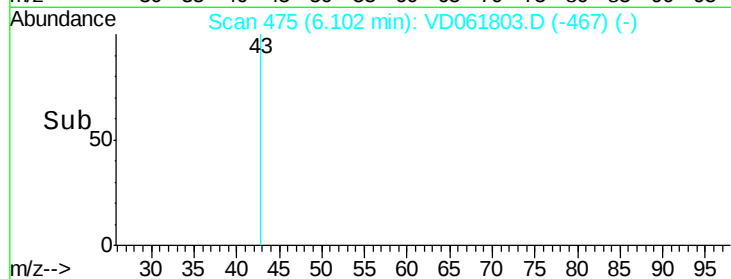
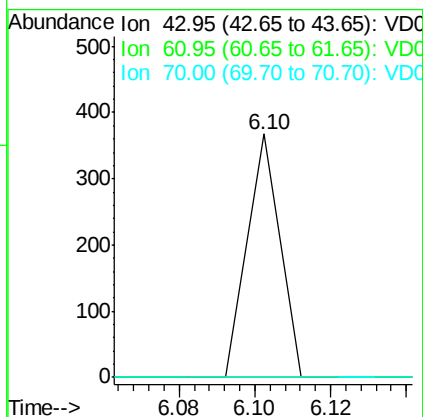
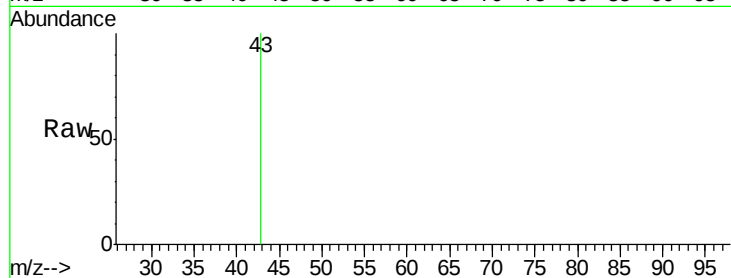




#37  
Ethyl Acetate  
Concen: 27.466 ug/l  
RT: 6.10 min Scan# 475  
Delta R.T. -0.12 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

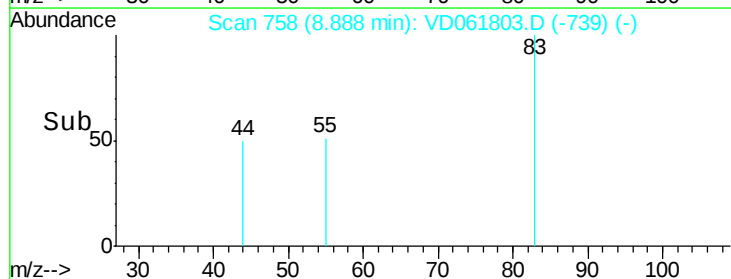
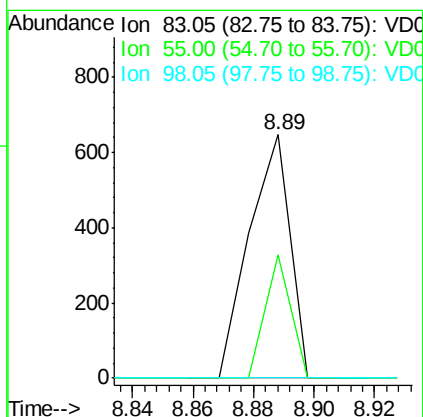
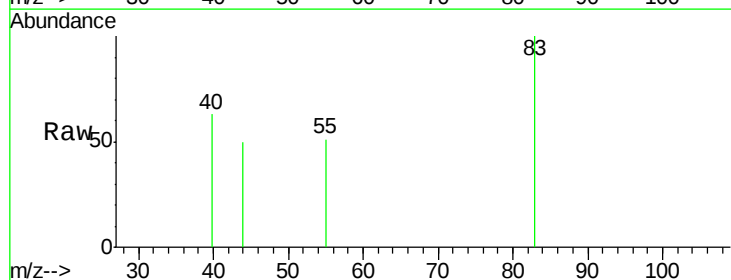
Instrument :  
MSVOA\_D  
ClientSampleID :

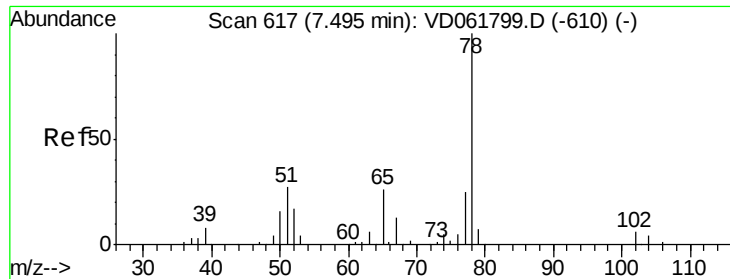
Tot Ion: 43 Resp: 217  
Ion Ratio Lower Upper  
43 100  
61 0.0 14.7 22.1#  
70 0.0 7.8 11.6#



#39  
Methylcyclohexane  
Concen: 31.874 ug/l  
RT: 8.89 min Scan# 758  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion: 83 Resp: 611  
Ion Ratio Lower Upper  
83 100  
55 50.6 68.2 102.4#  
98 0.0 38.2 57.4#





#40

Benzene

Concen: 30.349 ug/l

RT: 7.47 min Scan# 614

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

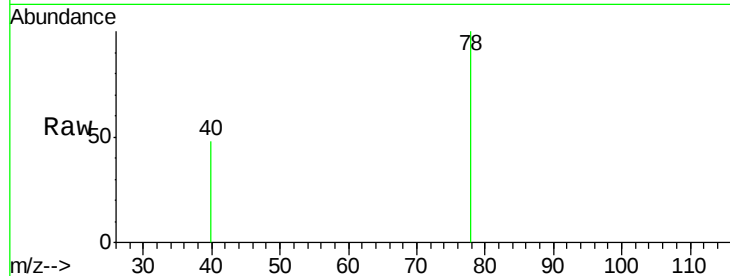
ClientSampleId :

Tot Ion: 78 Resp: 1345

Ion Ratio Lower Upper

78 100

77 0.0 19.7 29.5#



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

7.47

800

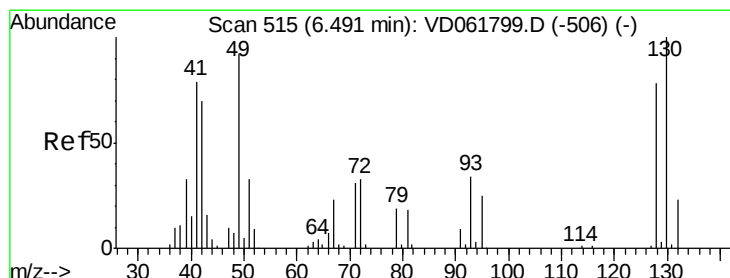
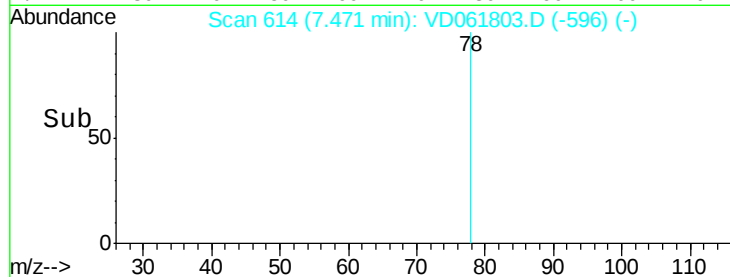
600

400

200

0

Time-->



#41

Methacrylonitrile

Concen: 106.231 ug/l

RT: 6.49 min Scan# 514

Delta R.T. -0.01 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Tgt Ion: 41 Resp: 992

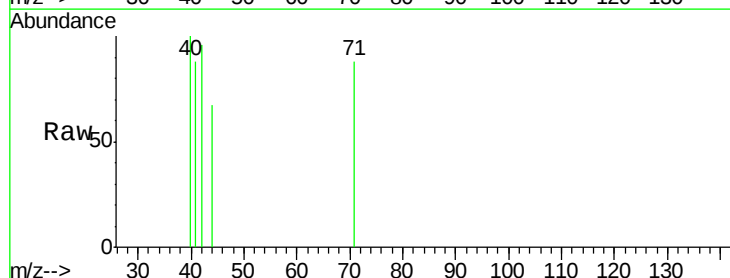
Ion Ratio Lower Upper

41 100

39 0.0 34.1 51.1#

67 0.0 23.8 35.6#

52 0.0 8.8 13.2#



Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

800

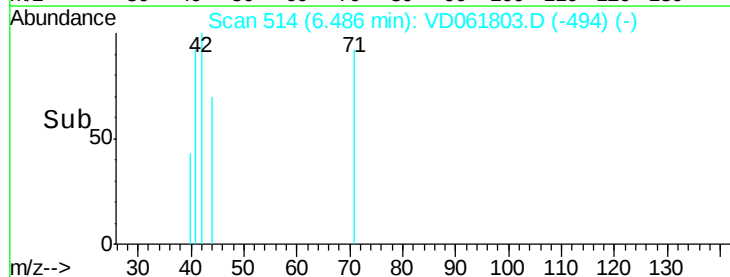
600

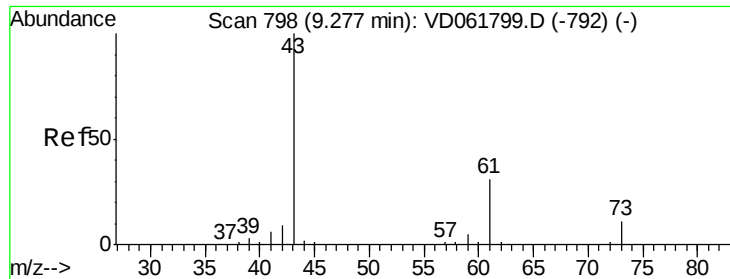
400

200

0

Time-->

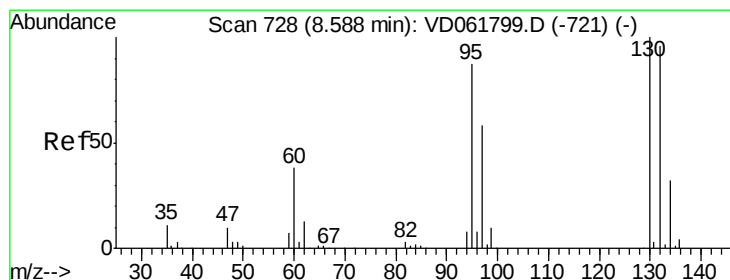
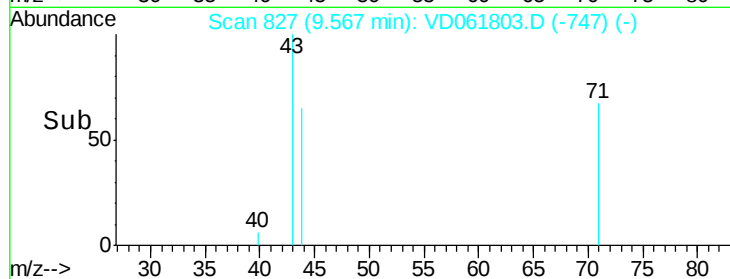
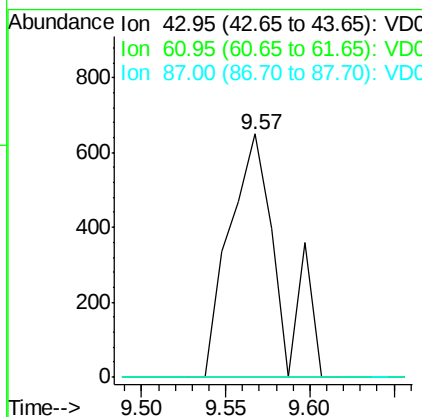
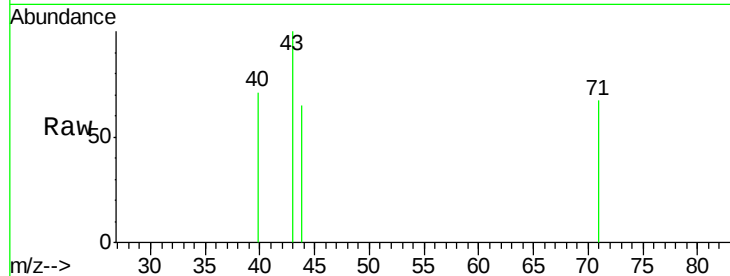




#43  
Isopropyl Acetate  
Concen: 117.377 ug/l  
RT: 9.57 min Scan# 827  
Delta R.T. 0.29 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

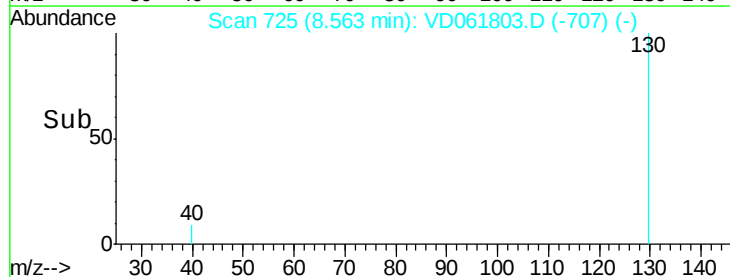
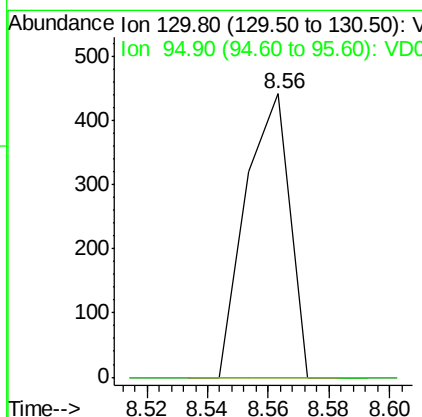
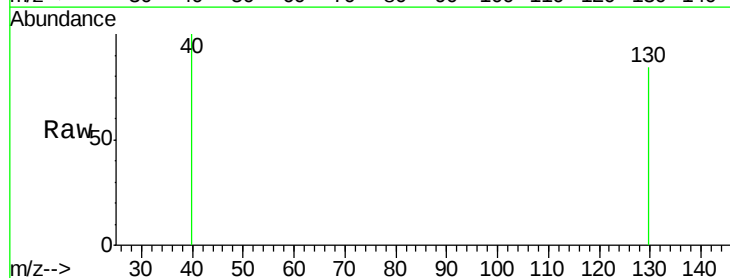
Instrument :  
MSVOA\_D  
ClientSampleId :

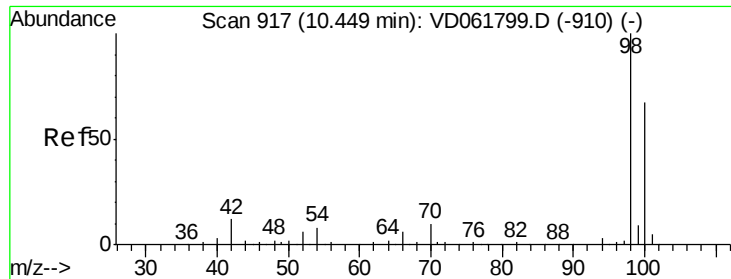
Tot Ion: 43 Resp: 1305  
Ion Ratio Lower Upper  
43 100  
61 0.0 25.1 37.7#  
87 0.0 0.0 0.0



#44  
Trichloroethene  
Concen: 26.377 ug/l  
RT: 8.56 min Scan# 725  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion:130 Resp: 450  
Ion Ratio Lower Upper  
130 100  
95 0.0 0.0 174.0

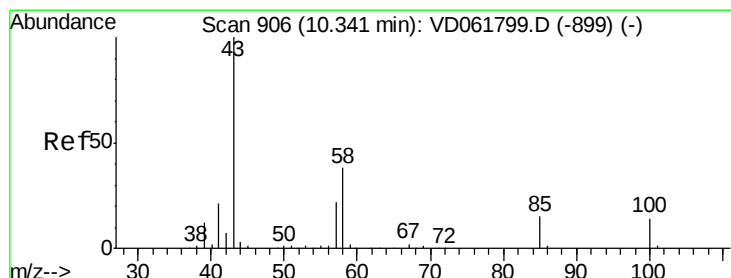
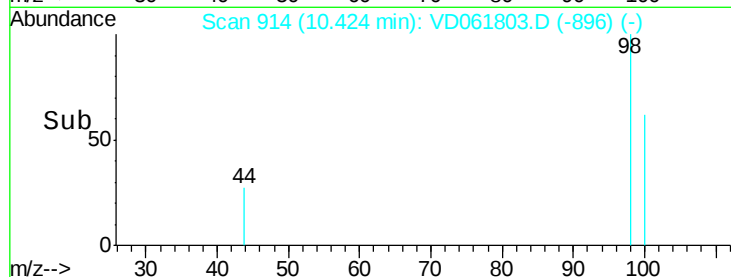
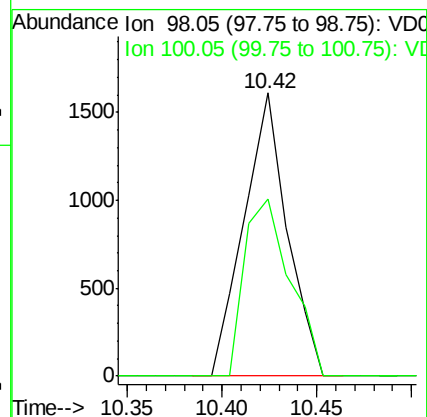
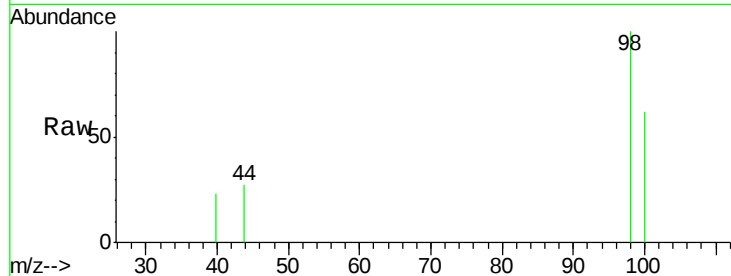




#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.42 min Scan# 914  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

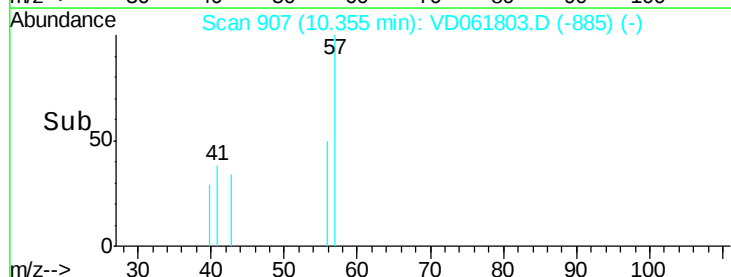
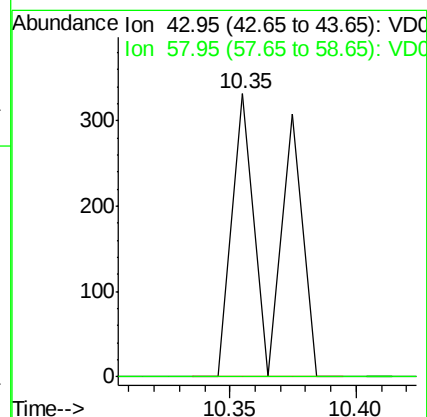
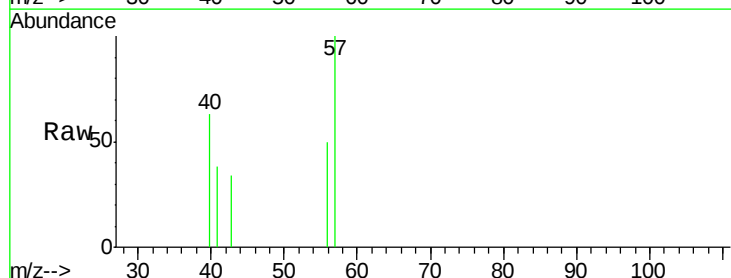
Instrument :  
MSVOA\_D  
ClientSampleId :

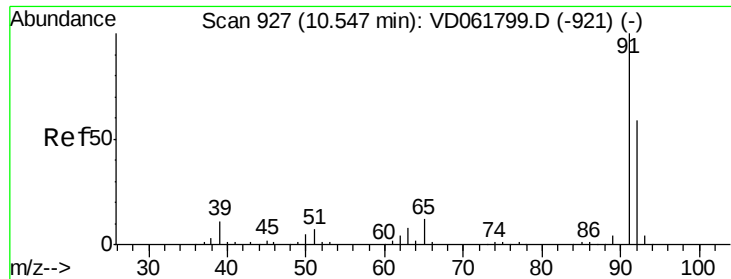
Tot Ion: 98 Resp: 2558  
Ion Ratio Lower Upper  
98 100  
100 62.4 53.8 80.8



#51  
4-Methyl-2-Pentanone  
Concen: 55.596 ug/l  
RT: 10.35 min Scan# 907  
Delta R.T. 0.01 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion: 43 Resp: 378  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 45.6#





#52

Toluene

Concen: 49.507 ug/l

RT: 10.52 min Scan# 924

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

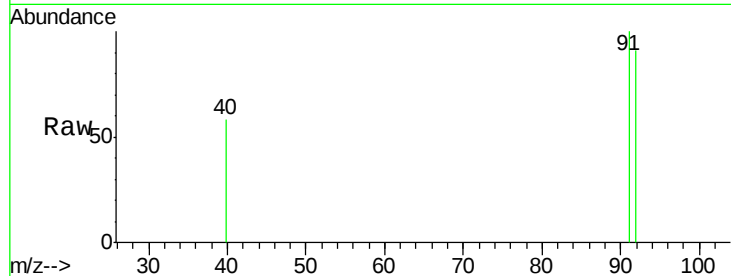
ClientSampleId :

Tot Ion: 92 Resp: 1406

Ion Ratio Lower Upper

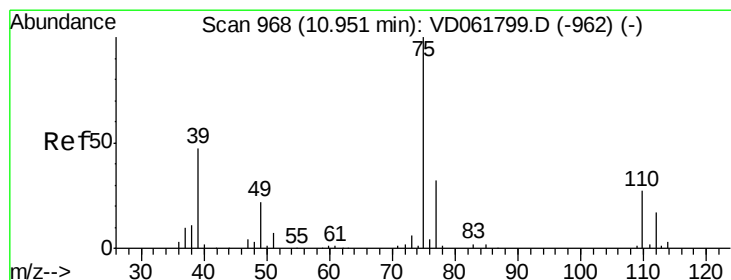
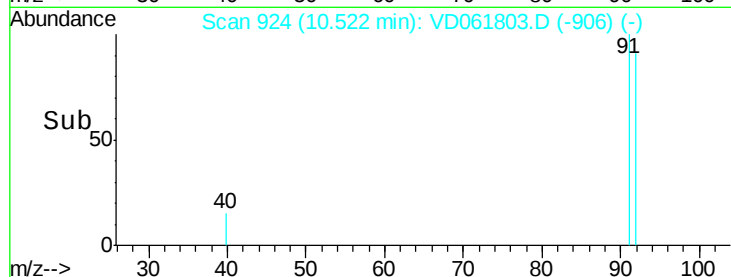
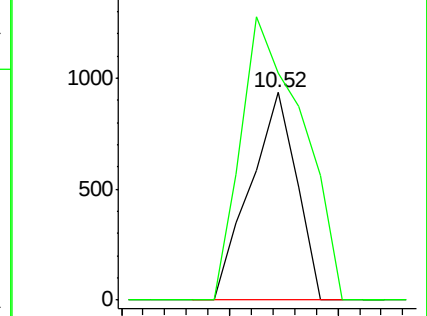
92 100

91 109.6 136.6 204.8#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#53

t-1,3-Dichloropropene

Concen: 41.465 ug/l

RT: 10.94 min Scan# 966

Delta R.T. -0.02 min

Lab File: VD061803.D

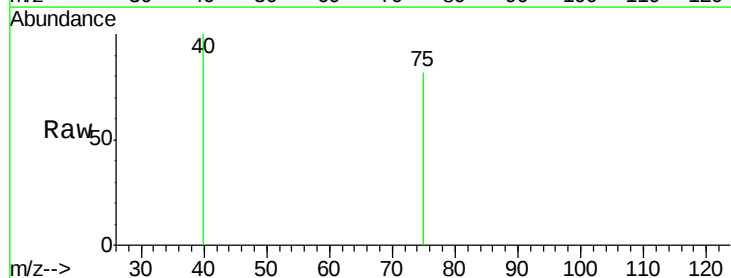
Acq: 16 Apr 2019 9:30

Tgt Ion: 75 Resp: 709

Ion Ratio Lower Upper

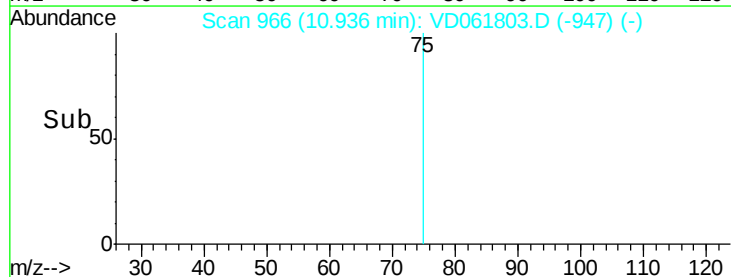
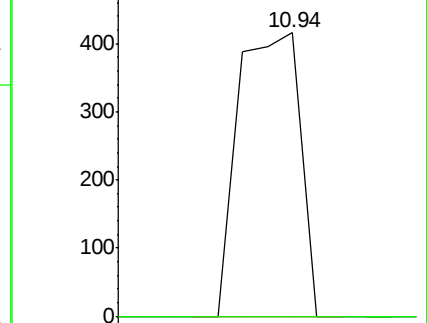
75 100

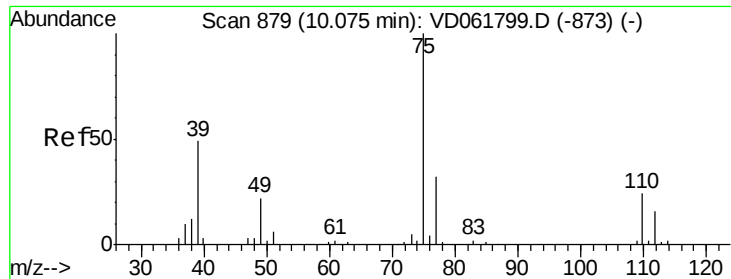
77 0.0 25.8 38.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



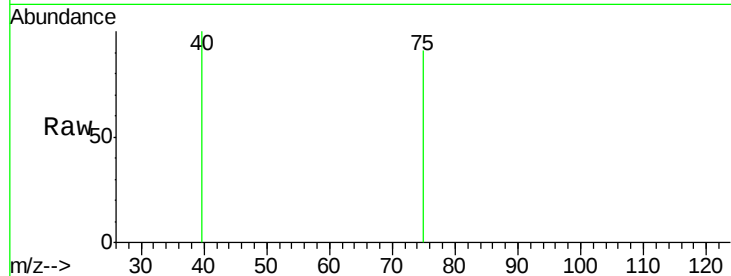


#54

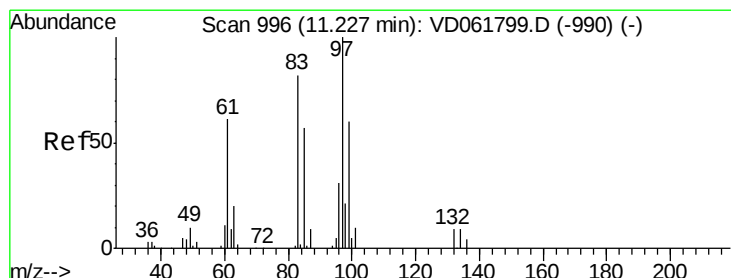
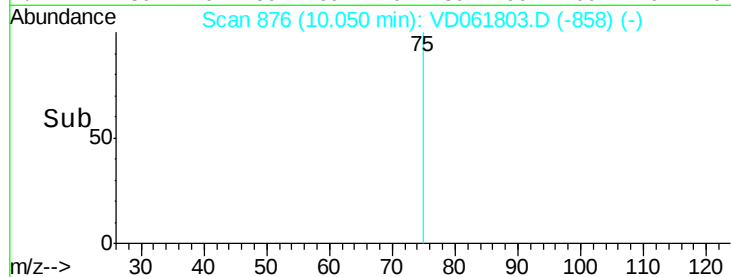
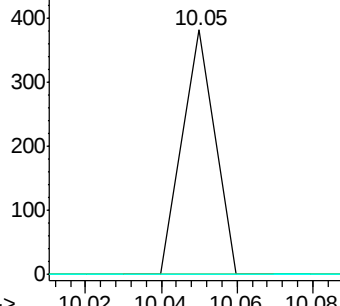
cis-1,3-Dichloropropene  
 Concen: 11.210 ug/l  
 RT: 10.05 min Scan# 876  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion: 75 Resp: 225  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.5 38.3#  
 39 0.0 39.4 59.2#



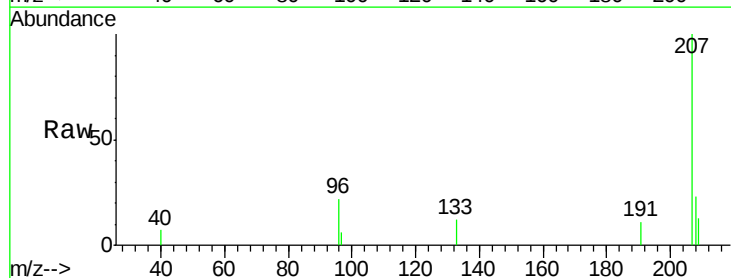
Abundance Ion 75.00 (74.70 to 75.70): VDC  
 Ion 76.95 (76.65 to 77.65): VDC  
 Ion 38.95 (38.65 to 39.65): VDC



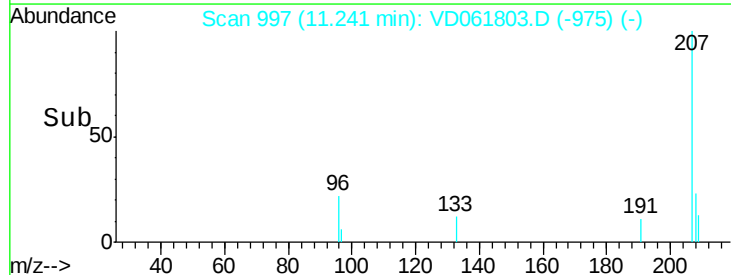
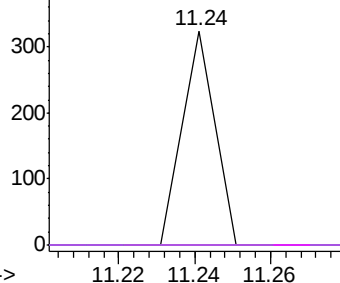
#55

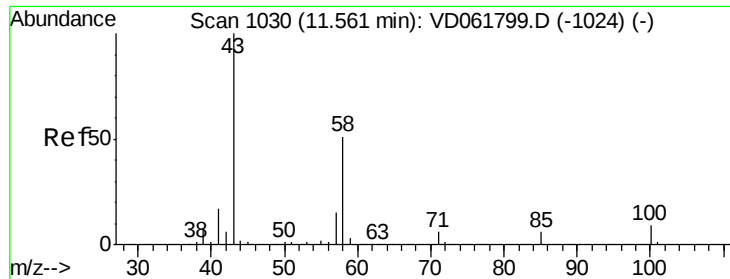
1,1,2-Trichloroethane  
 Concen: 19.959 ug/l  
 RT: 11.24 min Scan# 997  
 Delta R.T. 0.01 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Tgt Ion: 97 Resp: 191  
 Ion Ratio Lower Upper  
 97 100  
 83 0.0 65.7 98.5#  
 85 0.0 45.6 68.4#  
 99 0.0 48.4 72.6#



Abundance Ion 96.85 (96.55 to 97.55): VDC  
 Ion 82.95 (82.65 to 83.65): VDC  
 Ion 84.95 (84.65 to 85.65): VDC  
 Ion 98.85 (98.55 to 99.55): VDC

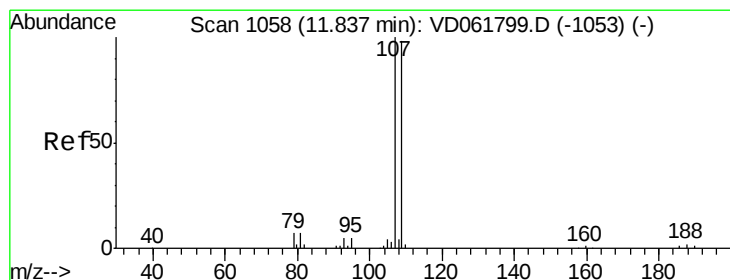
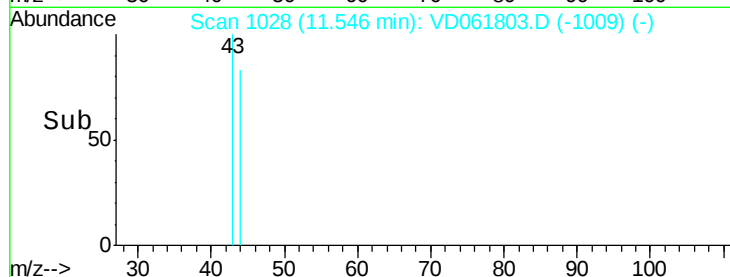
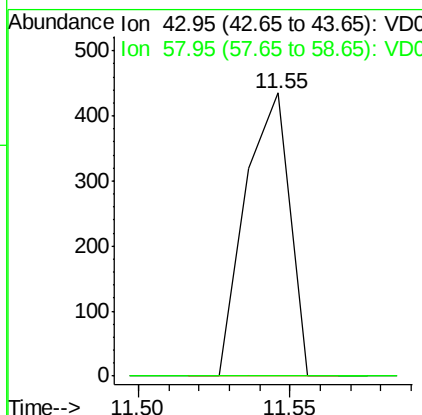
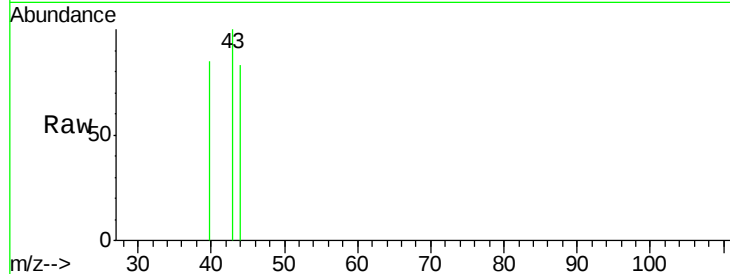




#59  
 2-Hexanone  
 Concen: 88.320 ug/l  
 RT: 11.55 min Scan# 1028  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

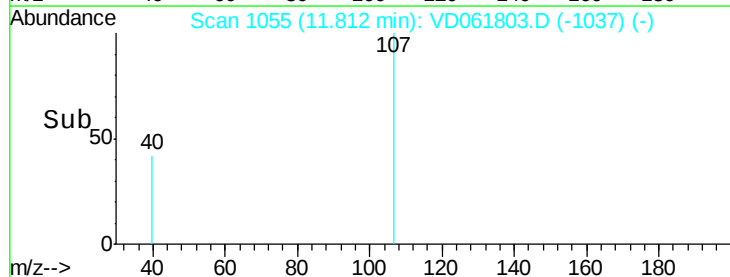
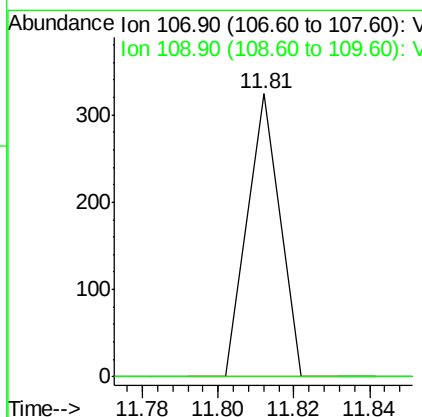
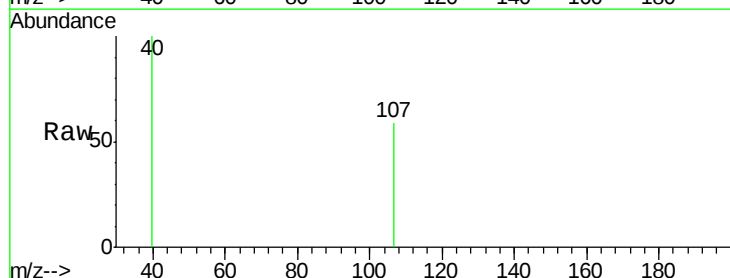
Instrument :  
 MSVOA\_D  
 ClientSampleId :

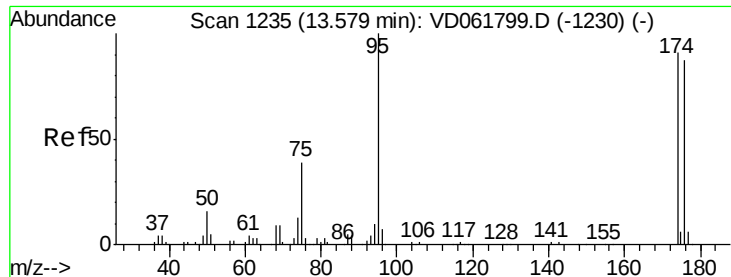
Tot Ion: 43 Resp: 446  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 25.4 76.4#



#61  
 1,2-Dibromoethane  
 Concen: 16.232 ug/l  
 RT: 11.81 min Scan# 1055  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Tgt Ion: 107 Resp: 191  
 Ion Ratio Lower Upper  
 107 100  
 109 0.0 78.3 117.5#





#62

4-Bromofluorobenzene

Concen: 16.232 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

ClientSampleId :

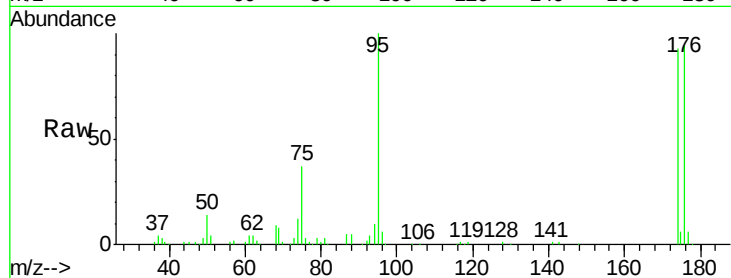
Tot Ion: 95 Resp: 195096

Ion Ratio Lower Upper

95 100

174 93.0 0.0 181.8

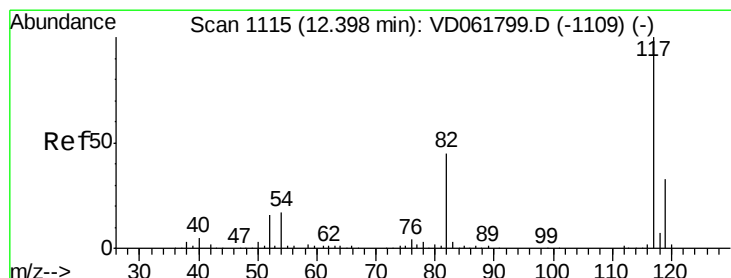
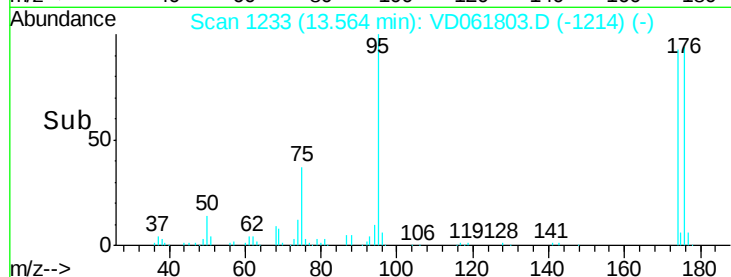
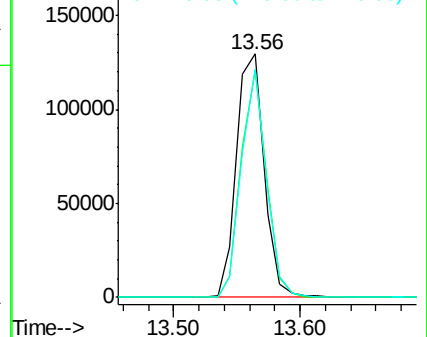
176 93.8 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

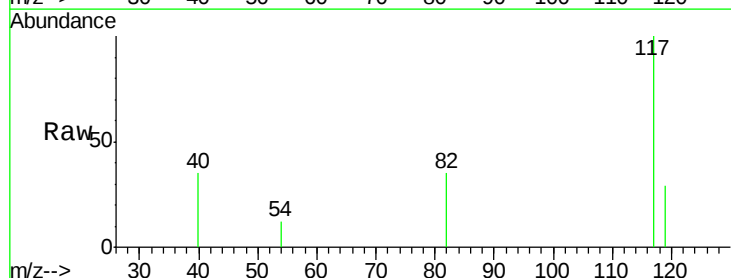
Tgt Ion: 117 Resp: 4154

Ion Ratio Lower Upper

117 100

82 35.0 36.2 54.2#

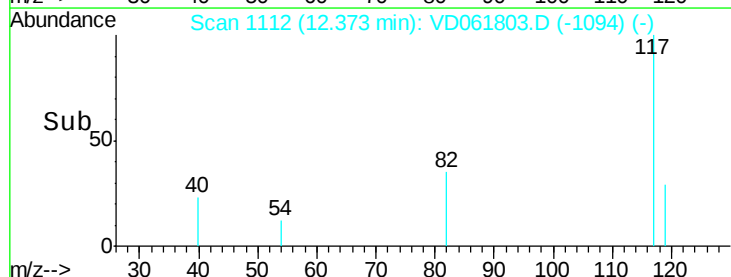
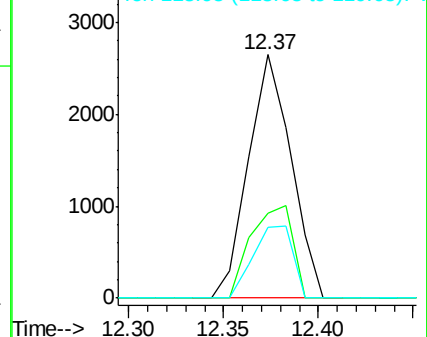
119 28.9 26.2 39.4

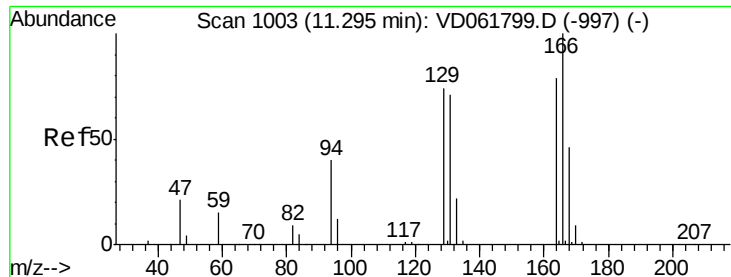


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#64

Tetrachloroethene

Concen: 8.089 ug/l

RT: 11.27 min Scan# 1000

Delta R.T. -0.02 min

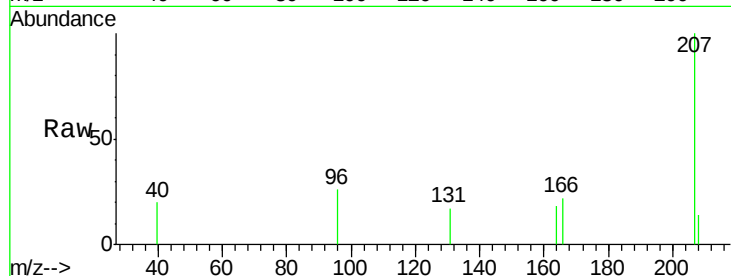
Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

ClientSampleId :



Tot Ion:164 Resp: 252

Ion Ratio Lower Upper

164 100

166 125.5 101.5 152.3

129 0.0 74.6 112.0#

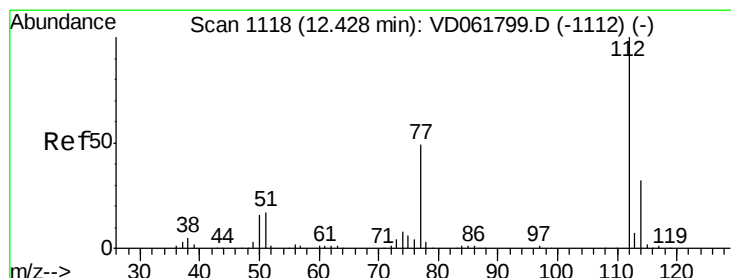
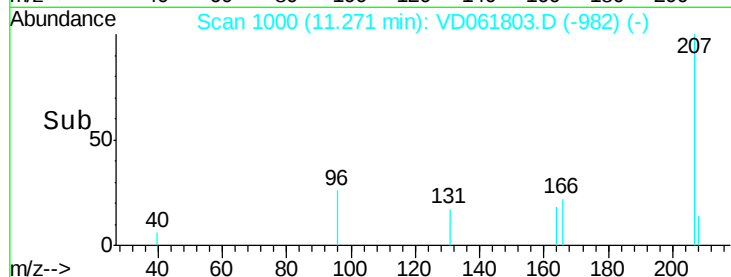
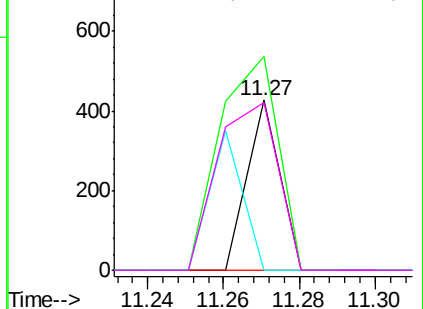
131 98.8 72.6 108.8

Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 22.841 ug/l

RT: 12.40 min Scan# 1115

Delta R.T. -0.02 min

Lab File: VD061803.D

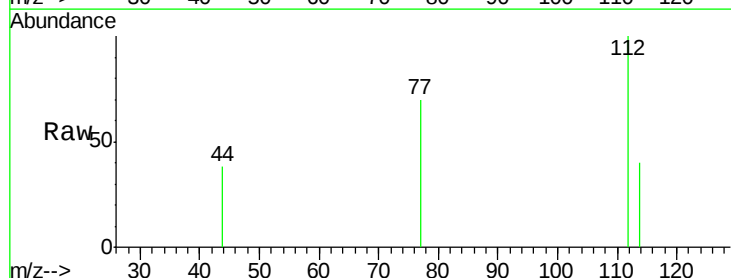
Acq: 16 Apr 2019 9:30

Tgt Ion:112 Resp: 1767

Ion Ratio Lower Upper

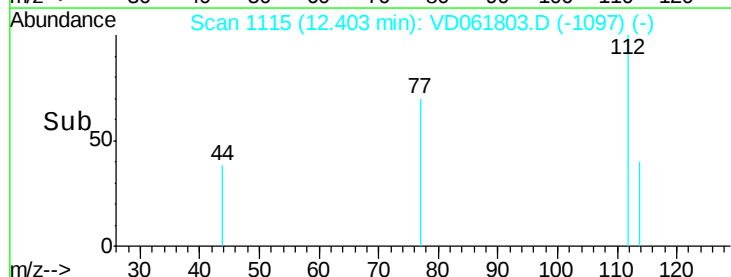
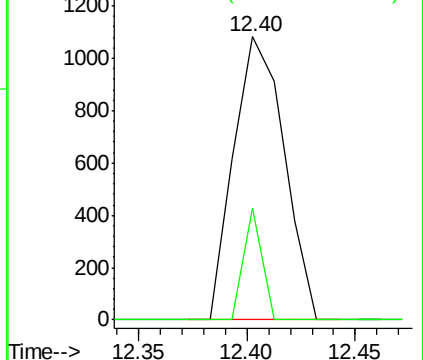
112 100

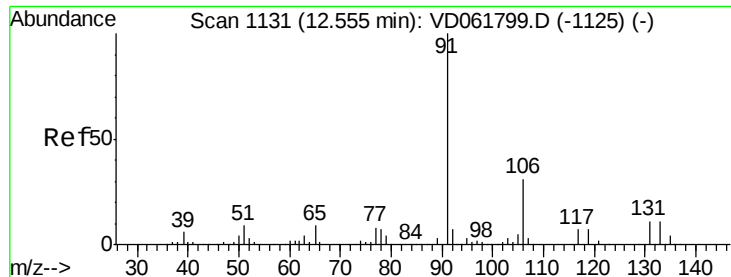
114 39.6 25.8 38.8#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V

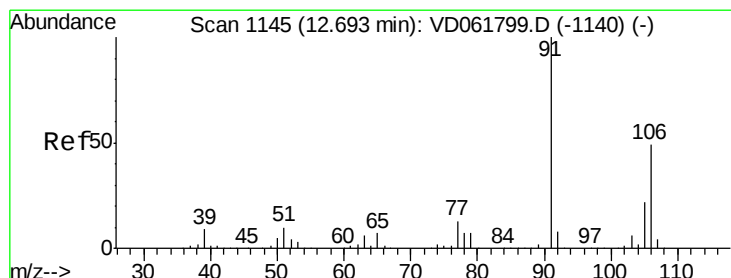
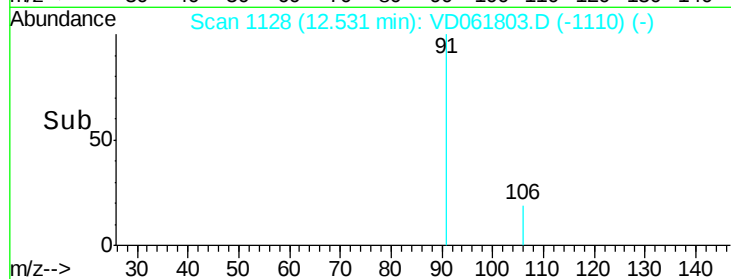
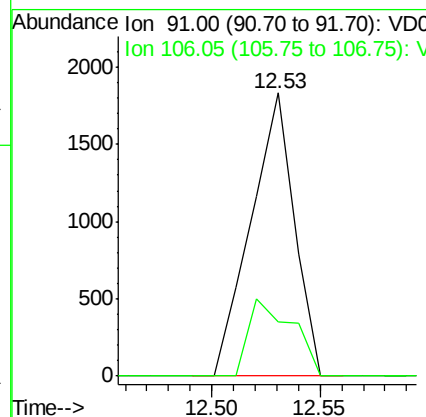
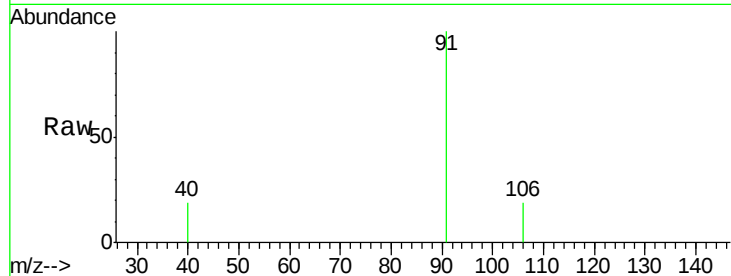




#67  
Ethyl Benzene  
Concen: 20.793 ug/l  
RT: 12.53 min Scan# 1128  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

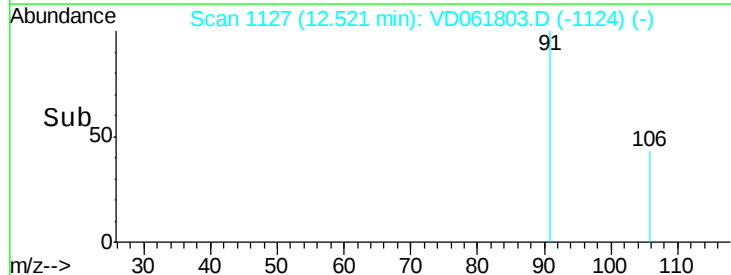
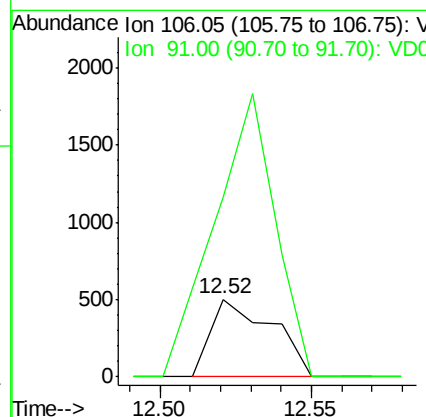
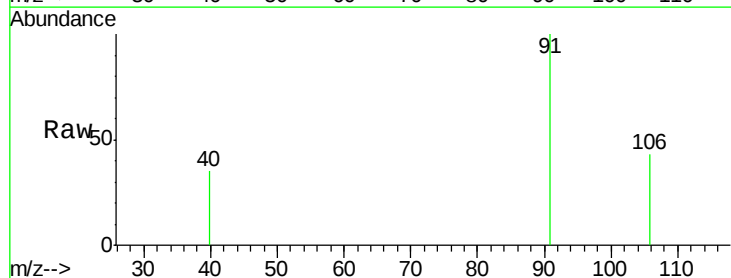
Instrument :  
MSVOA\_D  
ClientSampled :

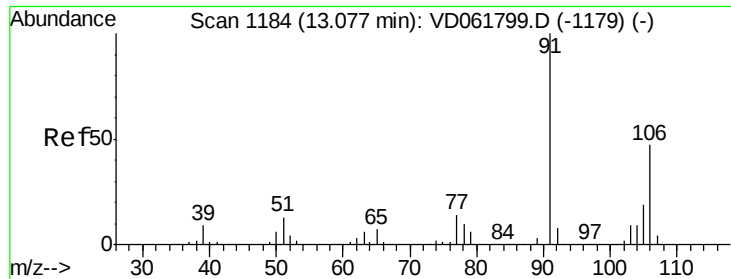
Tot Ion: 91 Resp: 2576  
Ion Ratio Lower Upper  
91 100  
106 19.3 24.7 37.1#



#68  
m/p-Xylenes  
Concen: 15.214 ug/l  
RT: 12.52 min Scan# 1127  
Delta R.T. -0.17 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion: 106 Resp: 708  
Ion Ratio Lower Upper  
106 100  
91 231.7 164.0 246.0

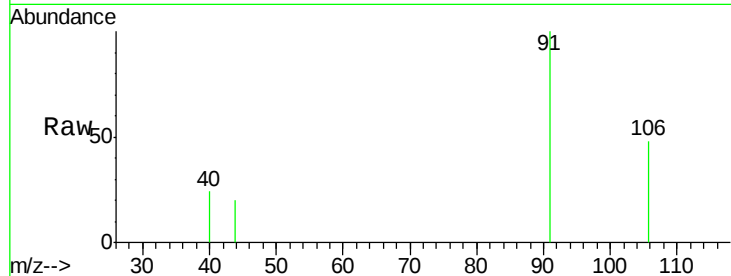




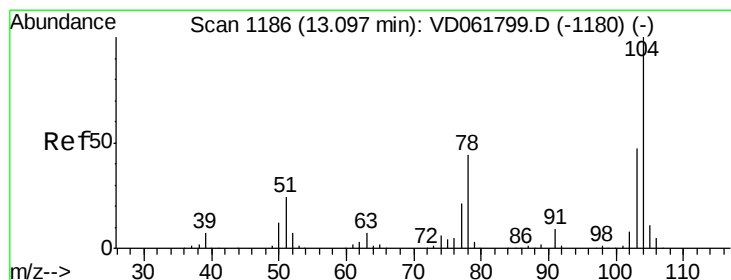
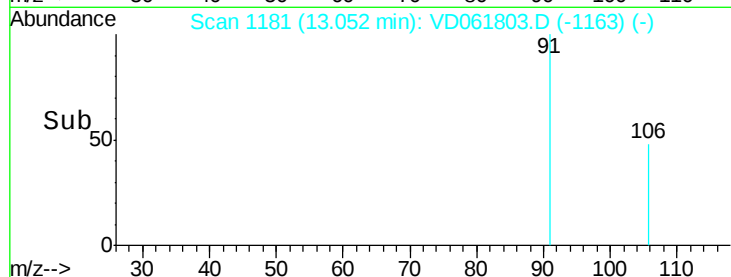
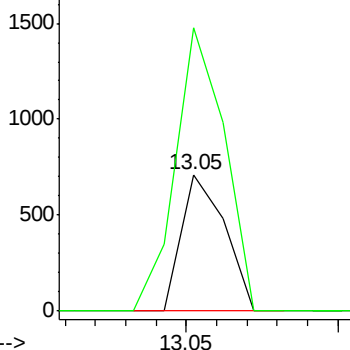
#69  
o-Xylene  
Concen: 16.095 ug/l  
RT: 13.05 min Scan# 1181  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:106 Resp: 704  
Ion Ratio Lower Upper  
106 100  
91 207.7 106.7 319.9

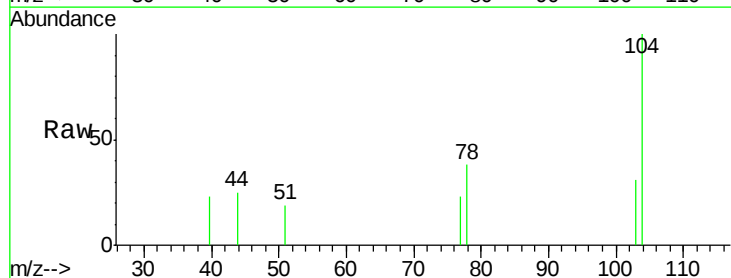


Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): V

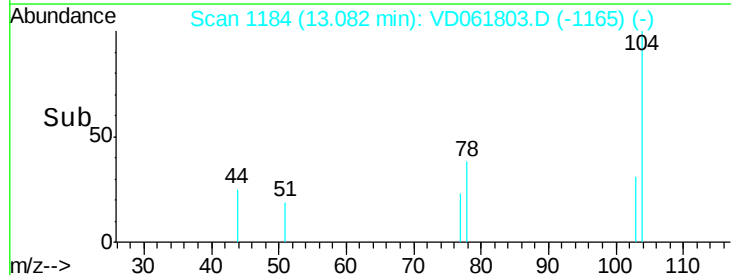
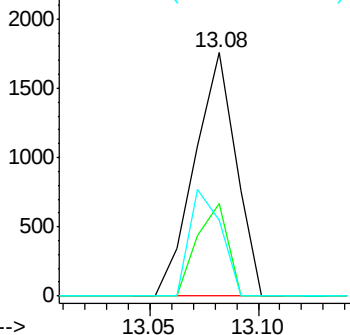


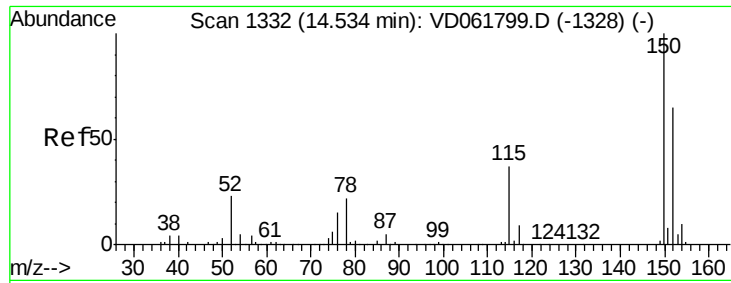
#70  
Styrene  
Concen: 31.034 ug/l  
RT: 13.08 min Scan# 1184  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion:104 Resp: 2336  
Ion Ratio Lower Upper  
104 100  
78 37.8 35.4 53.2  
103 31.2 37.5 56.3#



Abundance Ion 104.05 (103.75 to 104.75): V  
Ion 77.95 (77.65 to 78.65): V  
Ion 103.05 (102.75 to 103.75): V



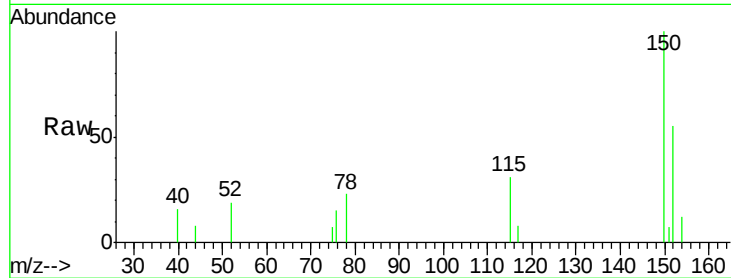


#72

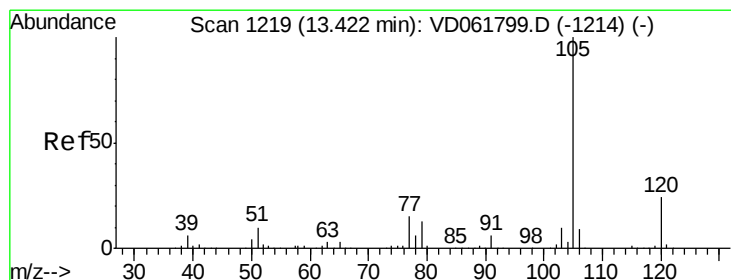
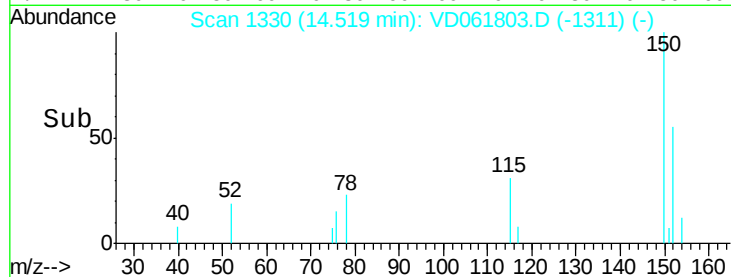
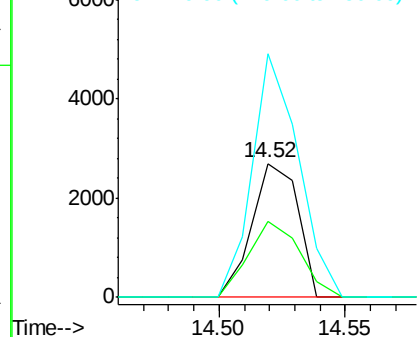
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:152 Resp: 3433  
Ion Ratio Lower Upper  
152 100  
115 57.1 30.9 92.7  
150 182.2 0.0 314.8



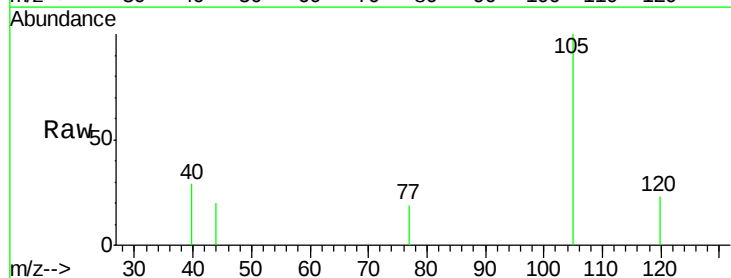
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V



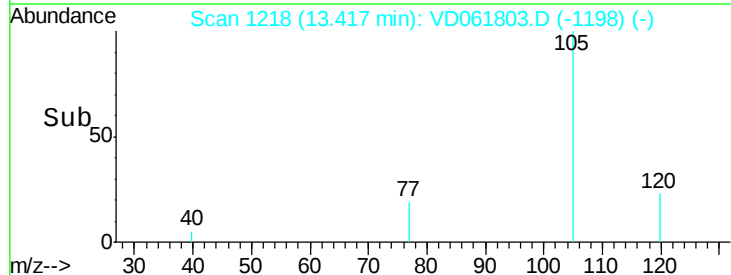
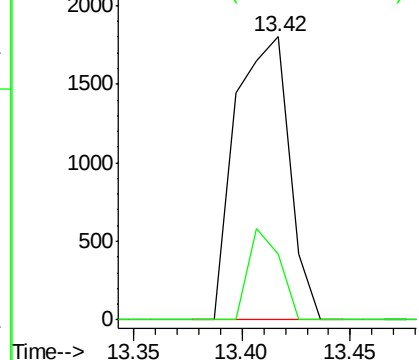
#73

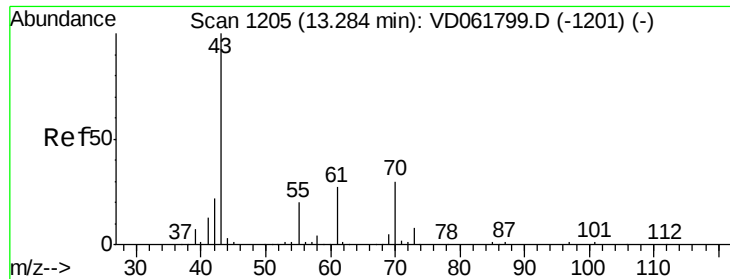
Isopropylbenzene  
Concen: 14.108 ug/l  
RT: 13.42 min Scan# 1218  
Delta R.T. -0.01 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion:105 Resp: 3141  
Ion Ratio Lower Upper  
105 100  
120 23.1 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V  
Ion 120.05 (119.75 to 120.75): V

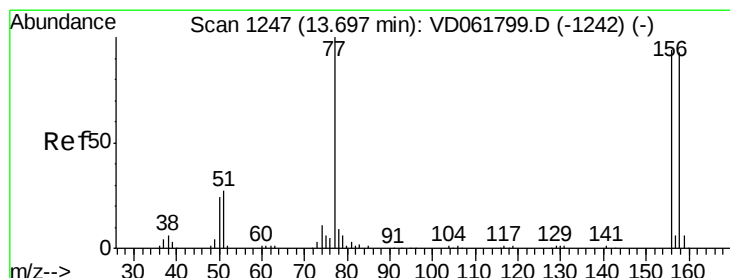
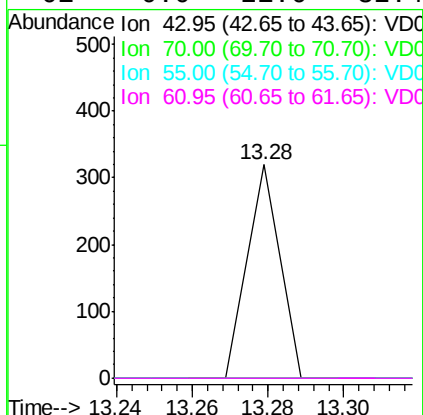
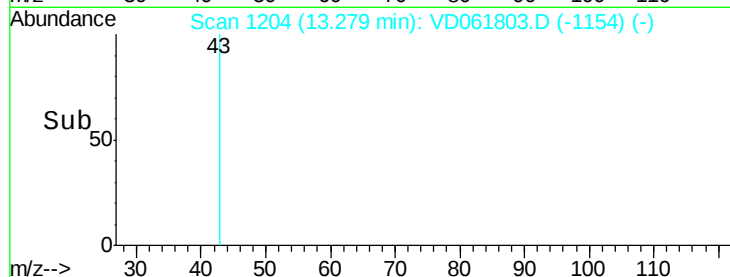
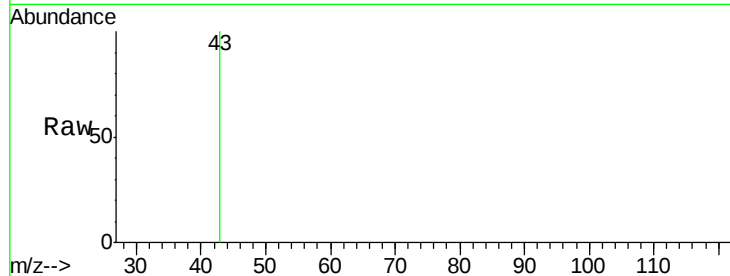




#74  
N-amvl acetate  
Concen: 3.157 ug/l  
RT: 13.28 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

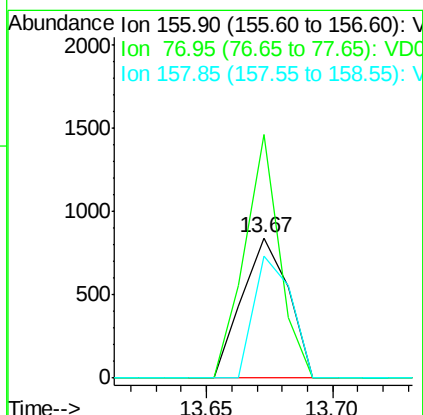
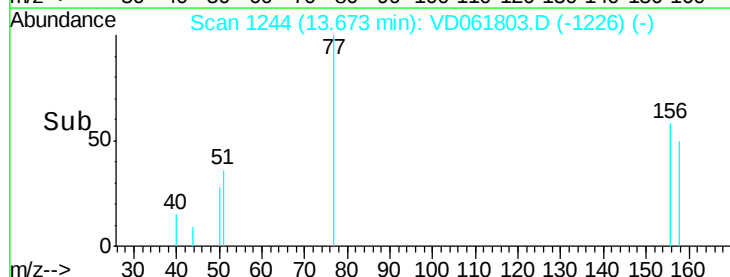
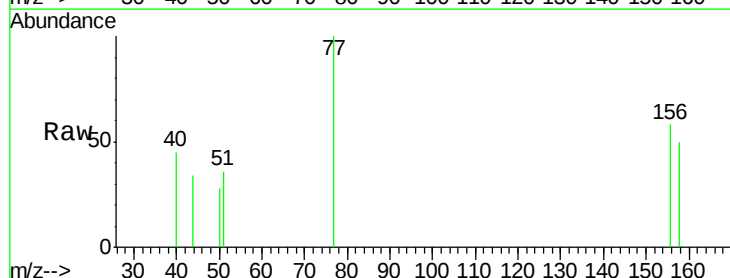
Instrument :  
MSVOA\_D  
ClientSampled :

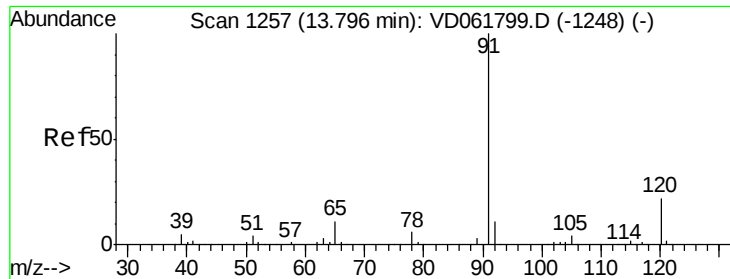
Tot Ion: 43 Resp: 189  
Ion Ratio Lower Upper  
43 100  
70 0.0 24.2 36.4#  
55 0.0 16.0 24.0#  
61 0.0 21.6 32.4#



#77  
Bromobenzene  
Concen: 17.029 ug/l  
RT: 13.67 min Scan# 1244  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion: 156 Resp: 1077  
Ion Ratio Lower Upper  
156 100  
77 173.5 53.1 159.4#  
158 86.7 49.4 148.0





#78

n-propylbenzene

Concen: 15.130 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

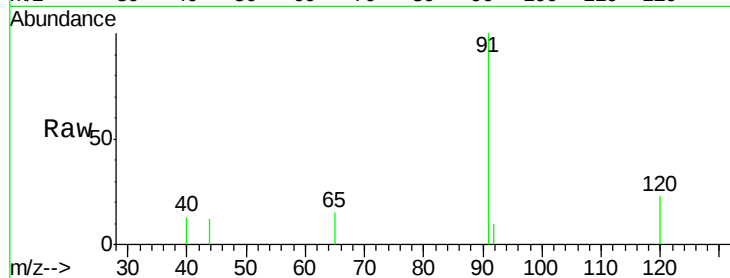
ClientSampleId :

Tot Ion: 91 Resp: 3892

Ion Ratio Lower Upper

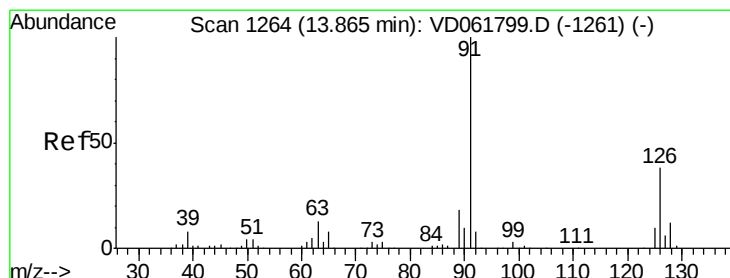
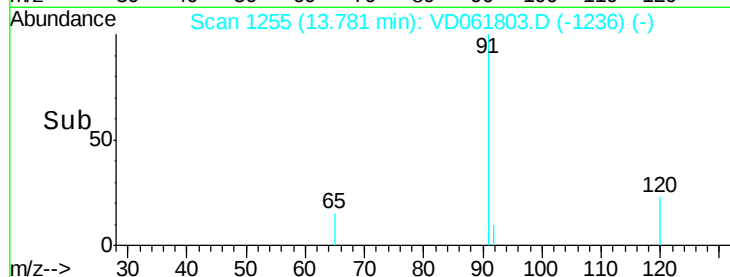
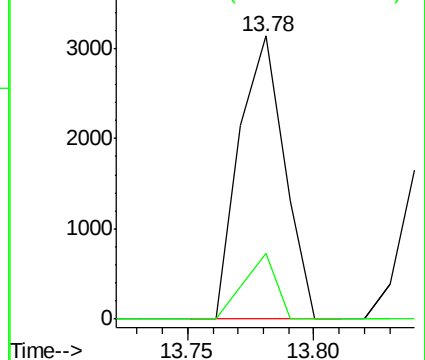
91 100

120 23.1 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 13.037 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. -0.02 min

Lab File: VD061803.D

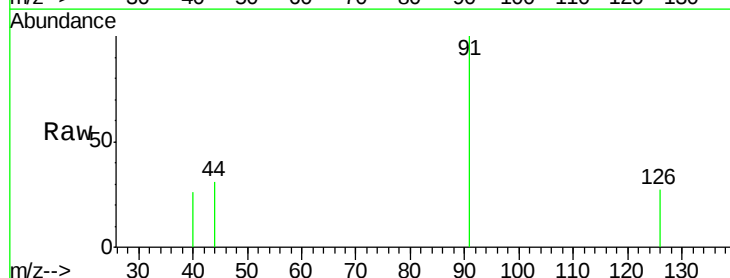
Acq: 16 Apr 2019 9:30

Tgt Ion: 91 Resp: 1959

Ion Ratio Lower Upper

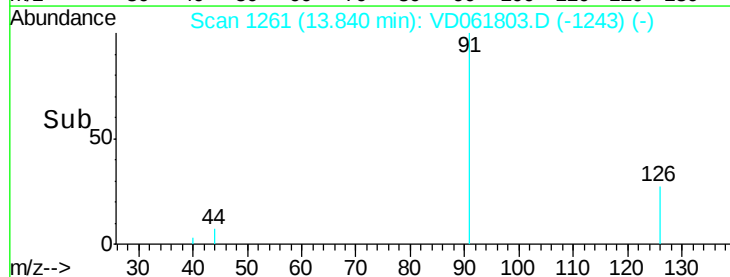
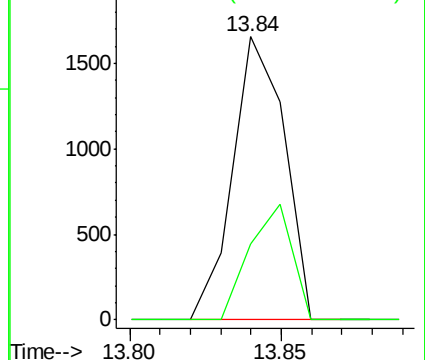
91 100

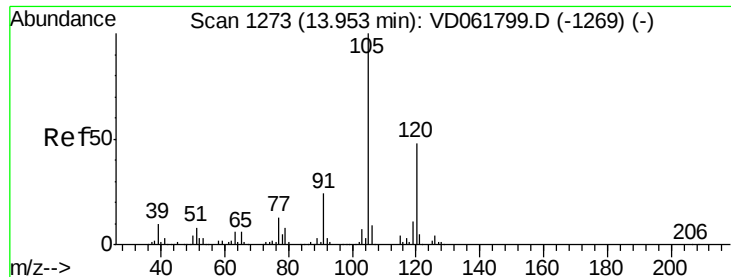
126 26.9 18.6 55.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#80

1,3,5-Trimethylbenzene

Concen: 16.280 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

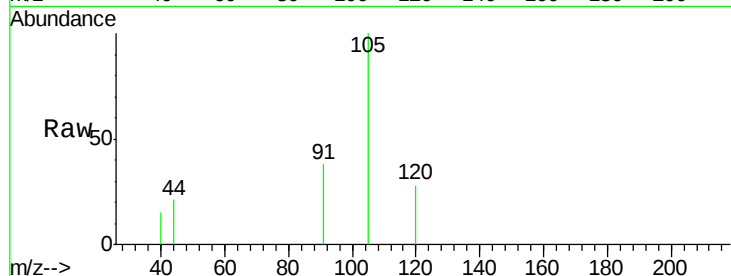
ClientSampled :

Tot Ion:105 Resp: 2876

Ion Ratio Lower Upper

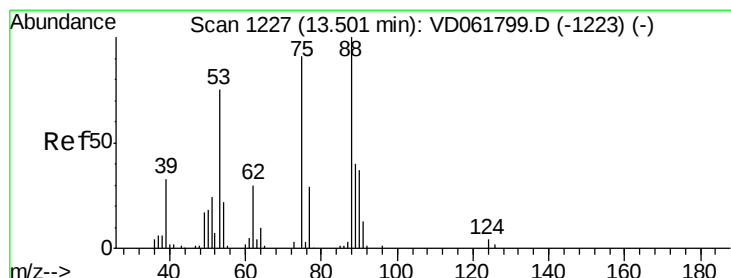
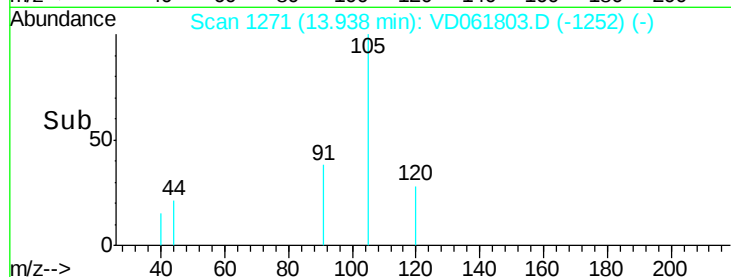
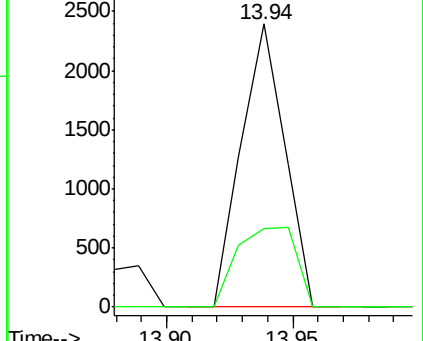
105 100

120 27.7 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 4739.344 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.06 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

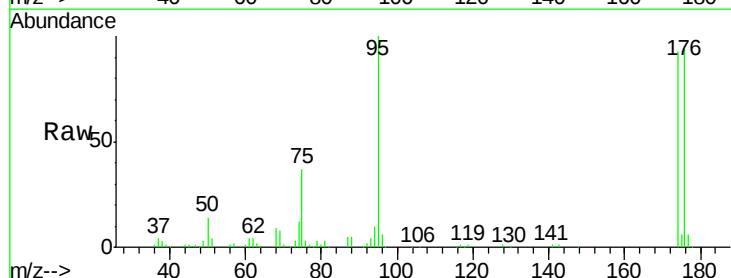
Tgt Ion: 75 Resp: 74133

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

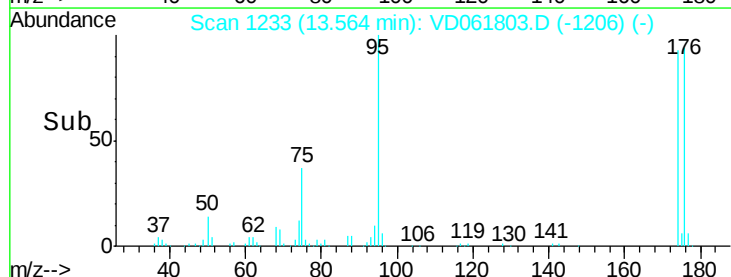
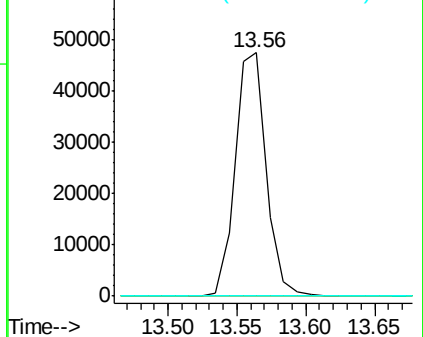
89 0.0 35.0 52.6#

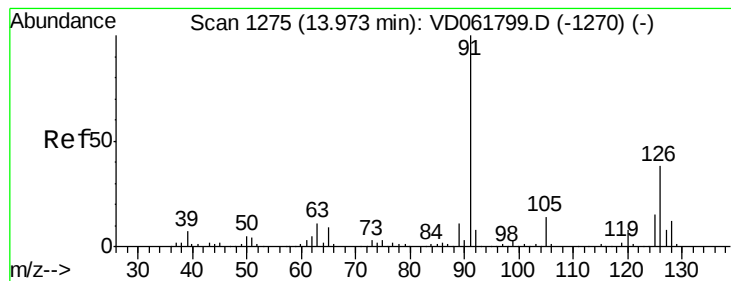


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: 21.239 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

Instrument :

MSVOA\_D

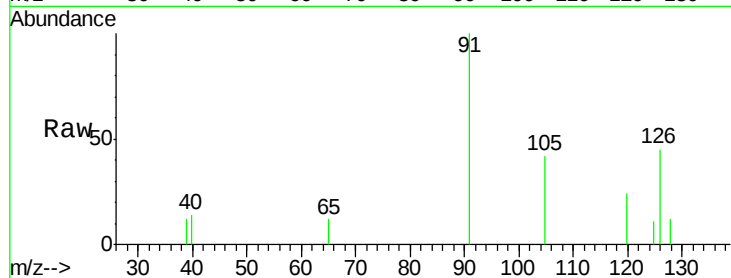
ClientSampleId :

Tot Ion: 91 Resp: 3653

Ion Ratio Lower Upper

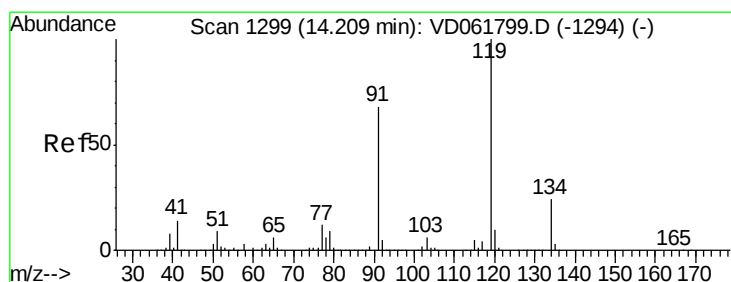
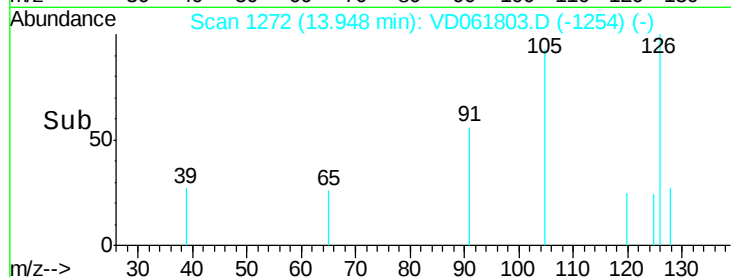
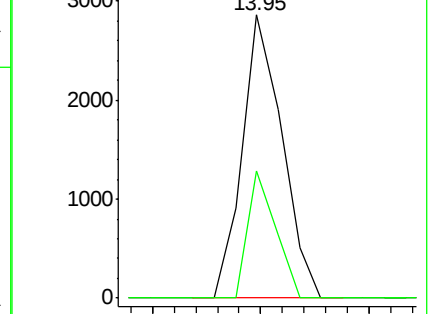
91 100

126 45.1 19.1 57.5



Abundance Ion 91.00 (90.70 to 91.70): VD061799.D (-1270) (-)

Ion 125.95 (125.65 to 126.65): VD061799.D (-1270) (-)



#83

tert-Butylbenzene

Concen: 10.582 ug/l

RT: 14.19 min Scan# 1297

Delta R.T. -0.02 min

Lab File: VD061803.D

Acq: 16 Apr 2019 9:30

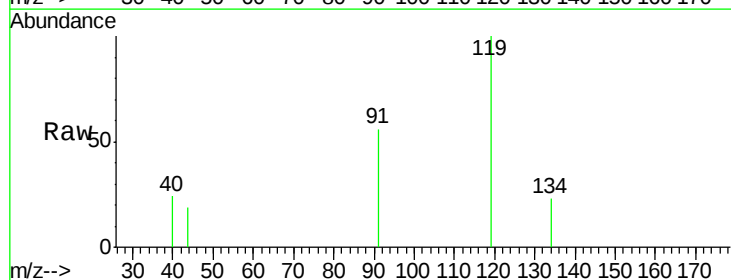
Tgt Ion: 119 Resp: 2195

Ion Ratio Lower Upper

119 100

91 55.9 34.2 102.6

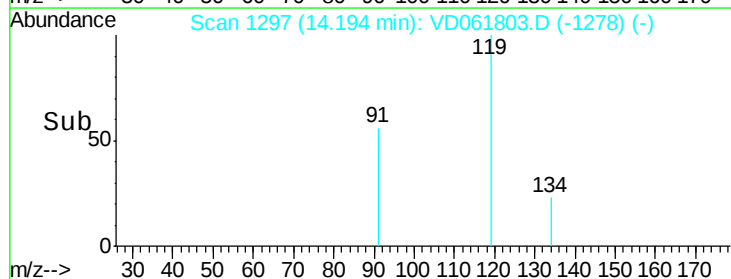
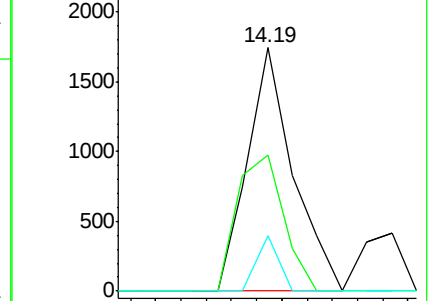
134 22.8 12.0 36.0

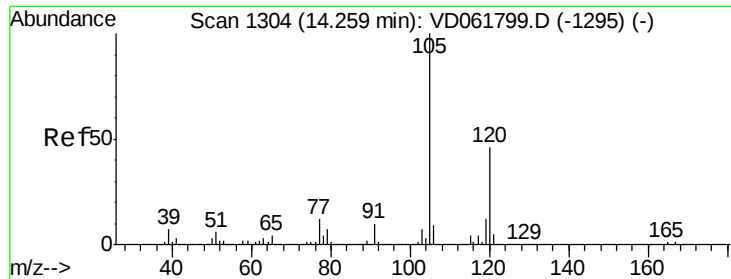


Abundance Ion 119.05 (118.75 to 119.75): VD061799.D (-1294) (-)

Ion 91.00 (90.70 to 91.70): VD061799.D (-1294) (-)

Ion 134.00 (133.70 to 134.70): VD061799.D (-1294) (-)

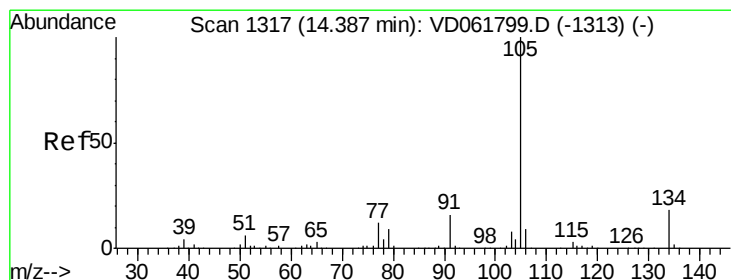
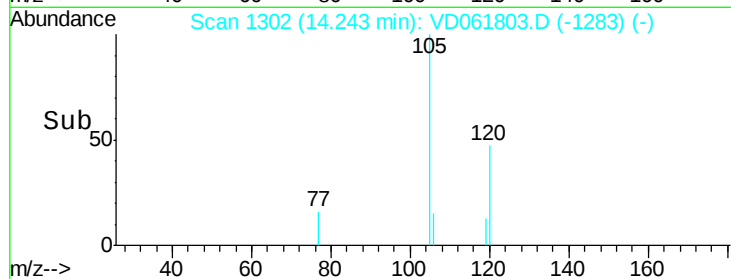
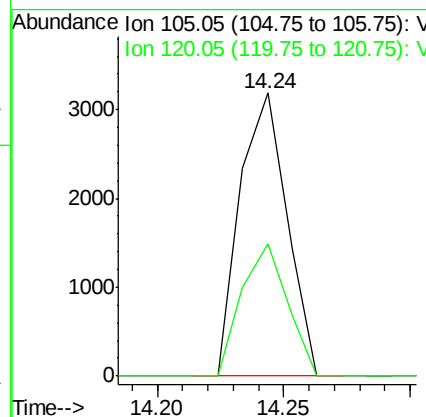
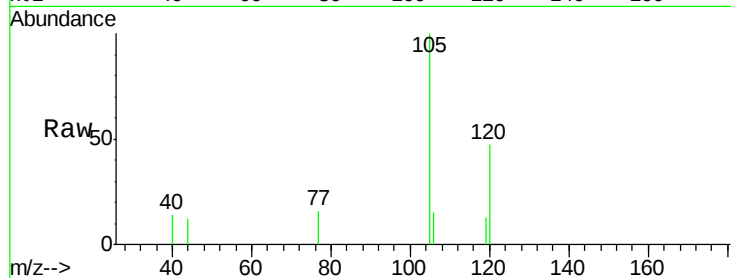




#84  
 1,2,4-Trimethylbenzene  
 Concen: 23.139 ug/l  
 RT: 14.24 min Scan# 1302  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

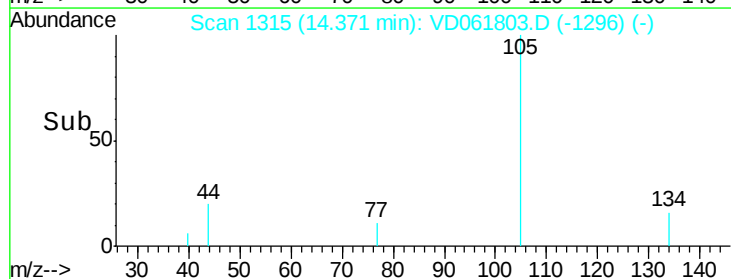
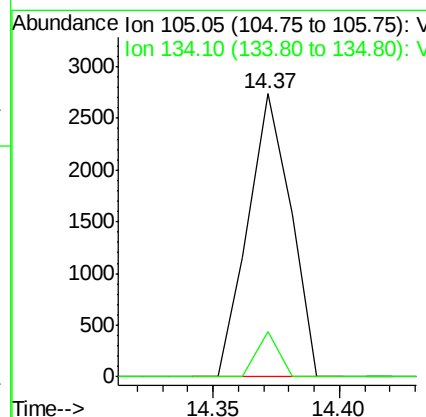
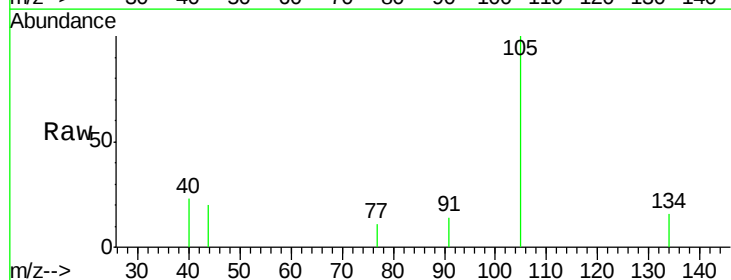
Instrument :  
 MSVOA\_D  
 ClientSampleID :

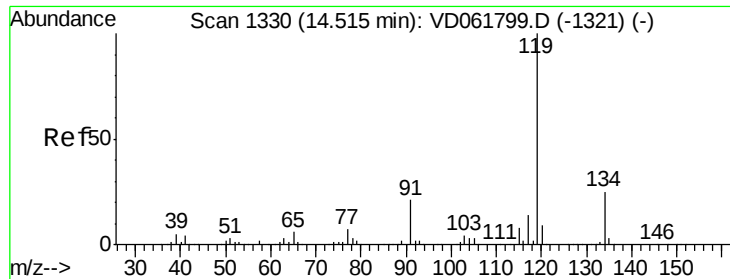
Tot Ion:105 Resp: 4109  
 Ion Ratio Lower Upper  
 105 100  
 120 46.6 23.1 69.2



#85  
 sec-Butylbenzene  
 Concen: 15.058 ug/l  
 RT: 14.37 min Scan# 1315  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Tgt Ion:105 Resp: 3229  
 Ion Ratio Lower Upper  
 105 100  
 134 15.8 8.9 26.7

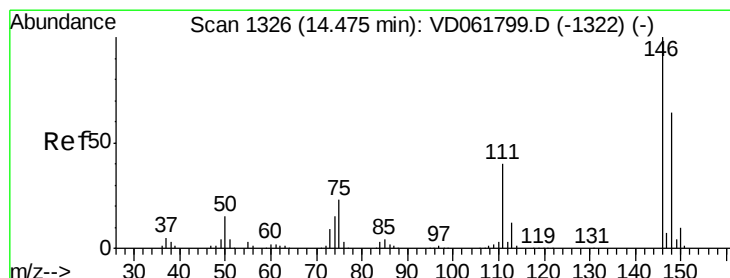
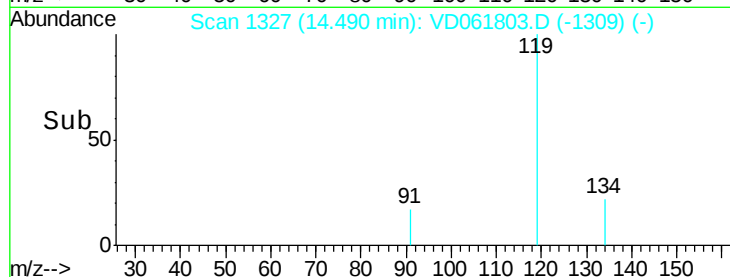
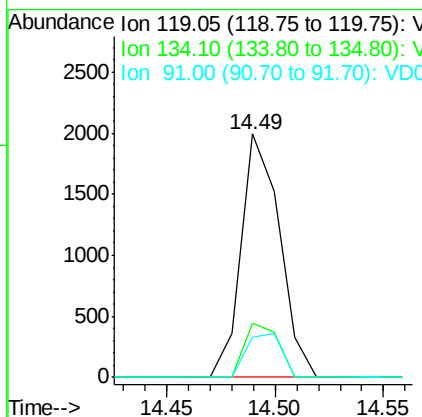
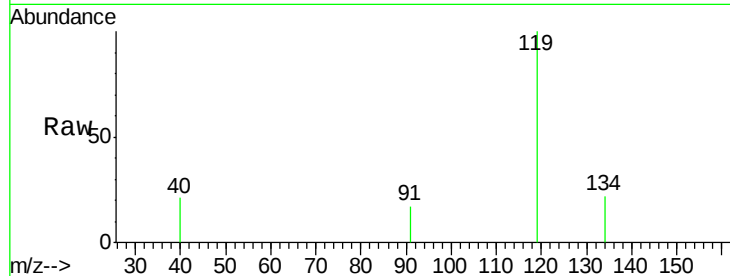




#86  
 p-Isopropyltoluene  
 Concen: 12.396 ug/l  
 RT: 14.49 min Scan# 1327  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

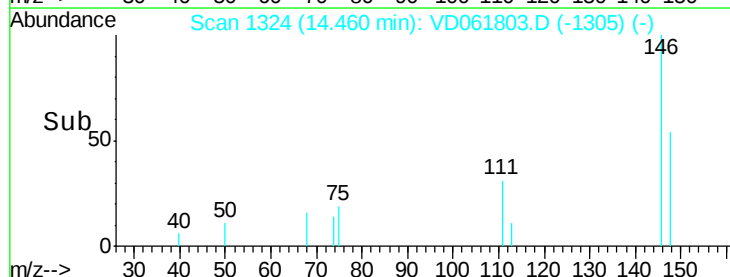
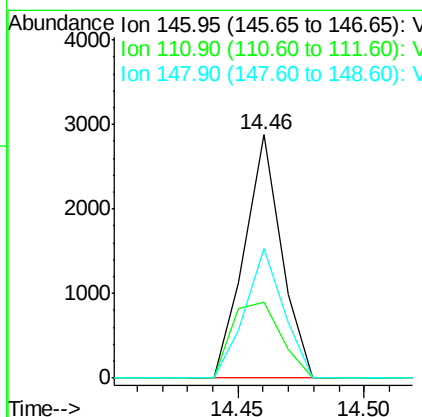
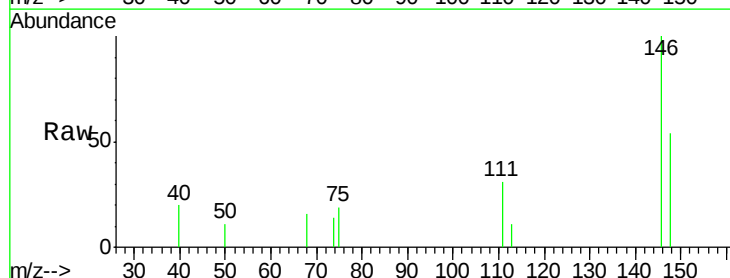
Instrument :  
 MSVOA\_D  
 ClientSampleID :

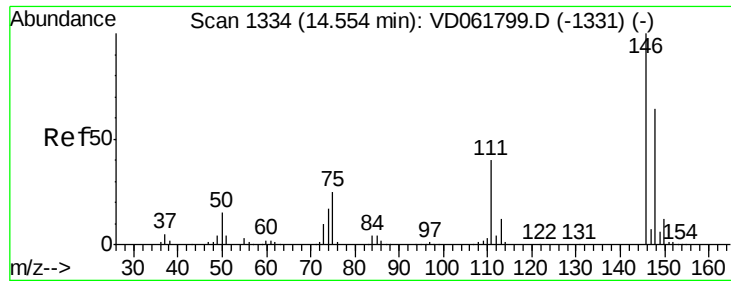
Tot Ion:119 Resp: 2487  
 Ion Ratio Lower Upper  
 119 100  
 134 22.2 12.8 38.3  
 91 16.6 10.7 32.1



#87  
 1,3-Dichlorobenzene  
 Concen: 26.737 ug/l  
 RT: 14.46 min Scan# 1324  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Tgt Ion:146 Resp: 2952  
 Ion Ratio Lower Upper  
 146 100  
 111 30.9 20.0 60.0  
 148 53.5 31.8 95.4

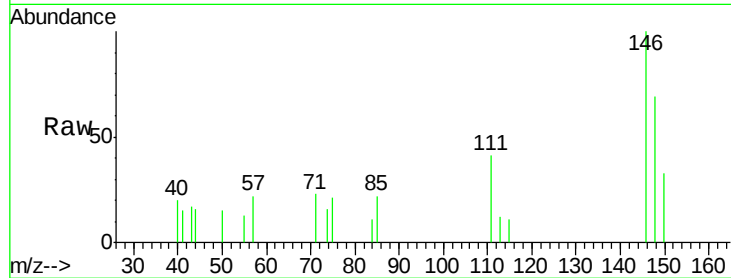




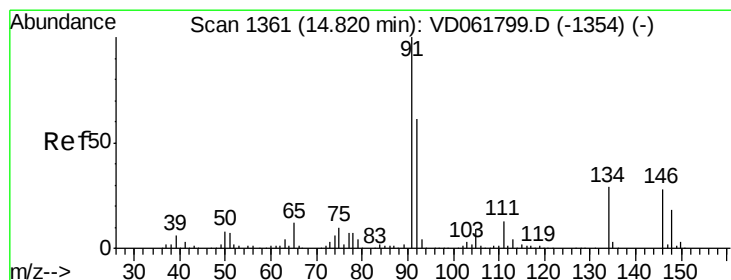
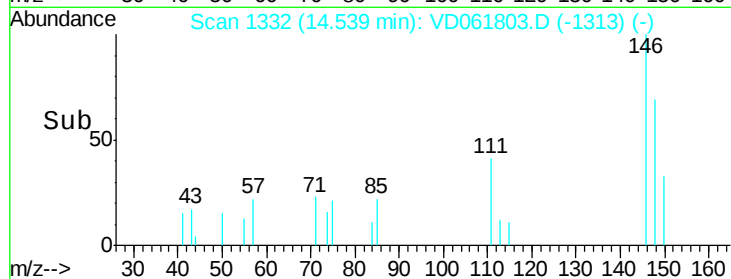
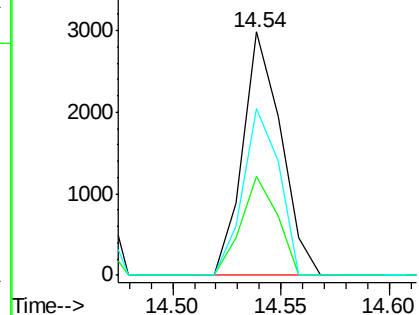
#88  
 1,4-Dichlorobenzene  
 Concen: 34.002 ug/l  
 RT: 14.54 min Scan# 1332  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:146 Resp: 3711  
 Ion Ratio Lower Upper  
 146 100  
 111 40.7 20.2 60.5  
 148 68.7 32.0 96.2

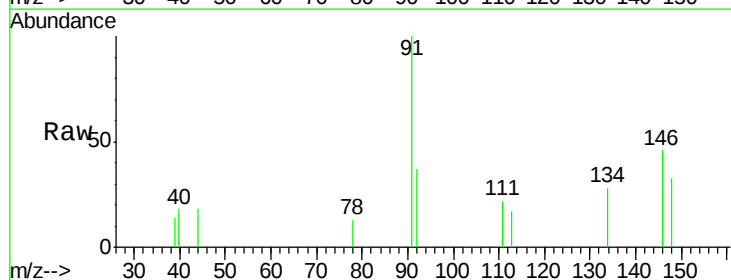


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

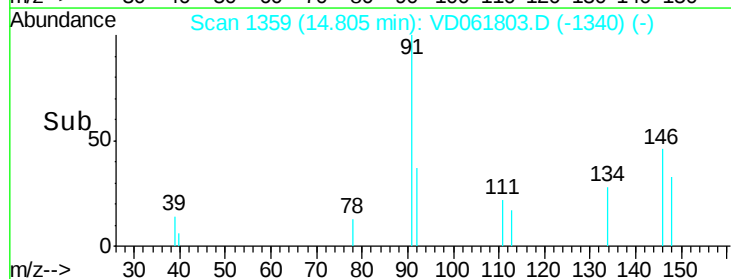
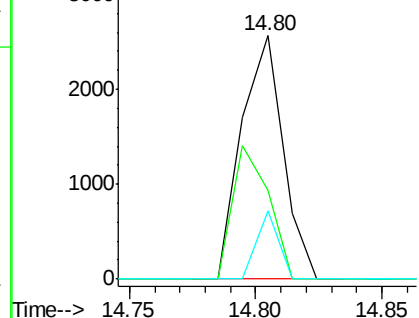


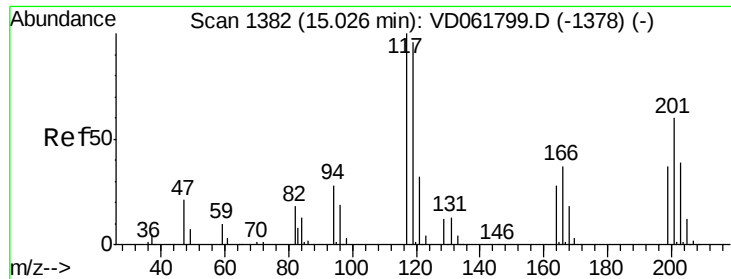
#89  
 n-Butylbenzene  
 Concen: 16.532 ug/l  
 RT: 14.80 min Scan# 1359  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Tgt Ion: 91 Resp: 2936  
 Ion Ratio Lower Upper  
 91 100  
 92 36.6 30.3 91.0  
 134 27.9 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): V  
 Ion 92.00 (91.70 to 92.70): V  
 Ion 134.10 (133.80 to 134.80): V

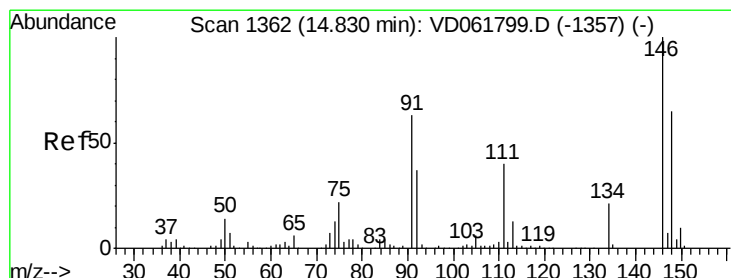
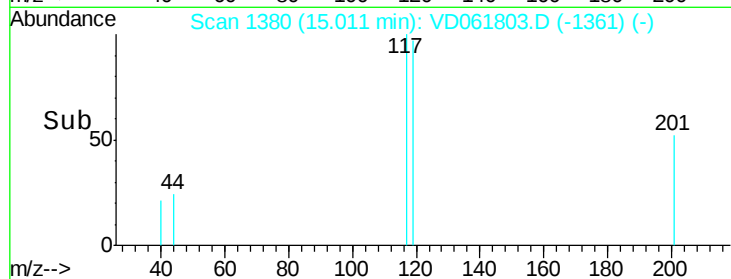
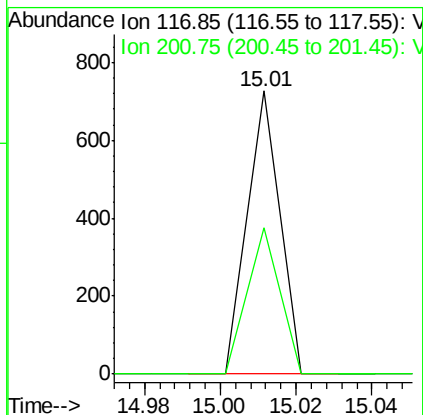
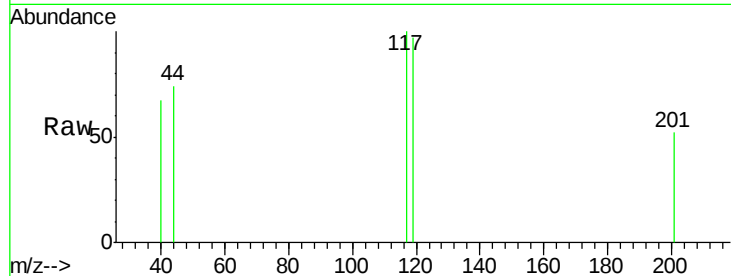




#90  
Hexachloroethane  
Concen: 7.845 ug/l  
RT: 15.01 min Scan# 1380  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

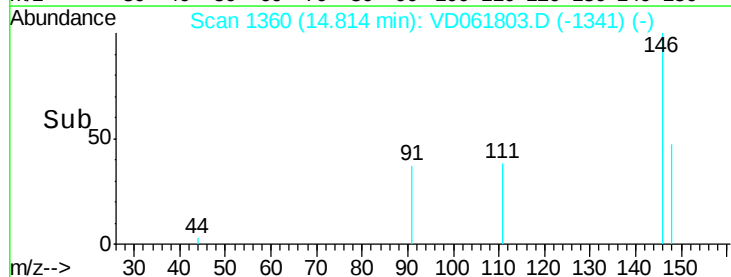
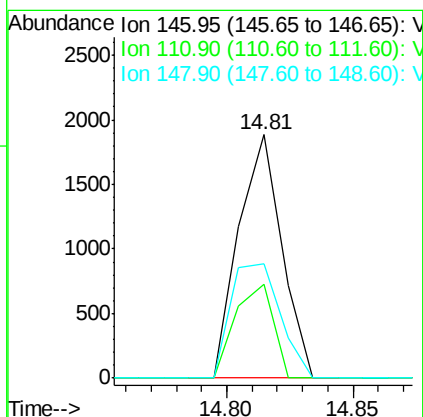
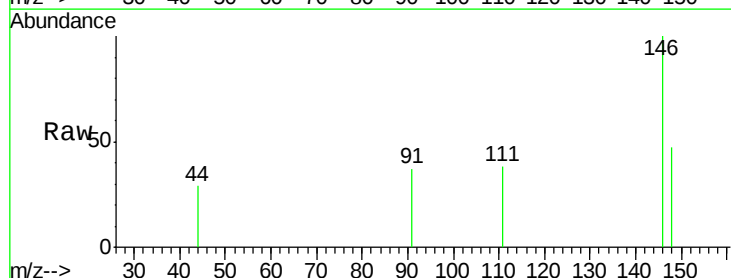
Instrument :  
MSVOA\_D  
ClientSampled :

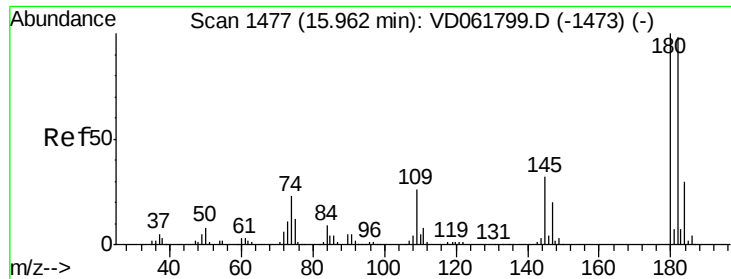
Tot Ion:117 Resp: 429  
Ion Ratio Lower Upper  
117 100  
201 51.9 30.2 90.6



#91  
1,2-Dichlorobenzene  
Concen: 24.080 ug/l  
RT: 14.81 min Scan# 1360  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion:146 Resp: 2227  
Ion Ratio Lower Upper  
146 100  
111 38.3 20.0 59.9  
148 47.0 32.3 96.8

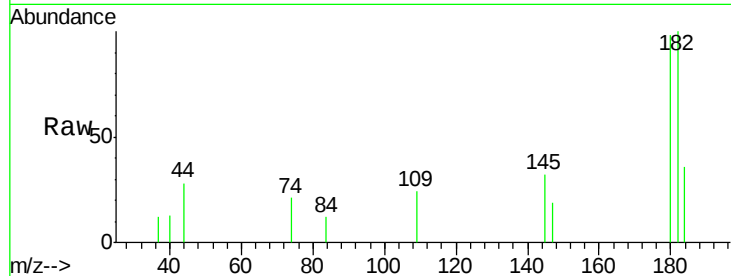




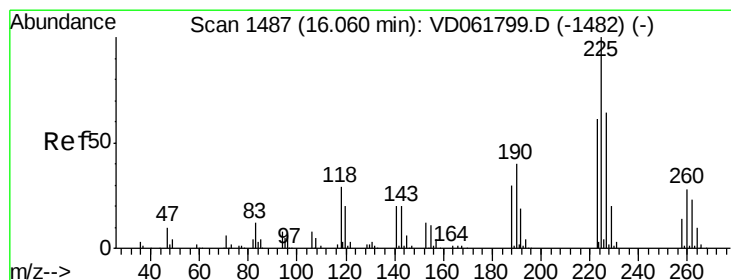
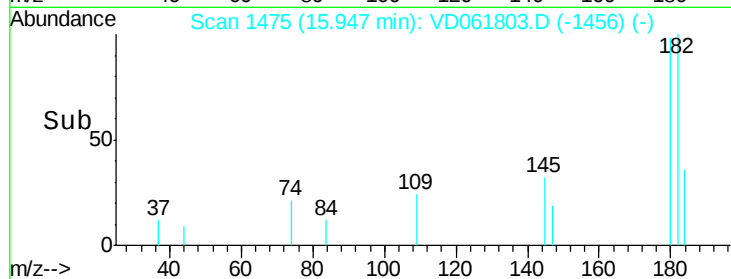
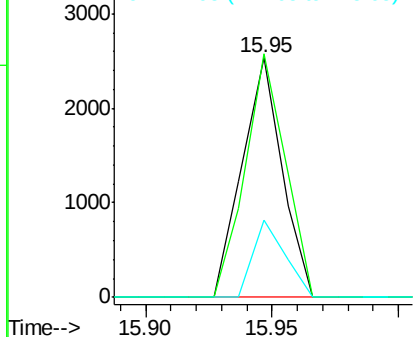
#93  
 1,2,4-Trichlorobenzene  
 Concen: 54.927 ug/l  
 RT: 15.95 min Scan# 1475  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:180 Resp: 2790  
 Ion Ratio Lower Upper  
 180 100  
 182 101.7 49.3 147.8  
 145 32.2 16.2 48.6

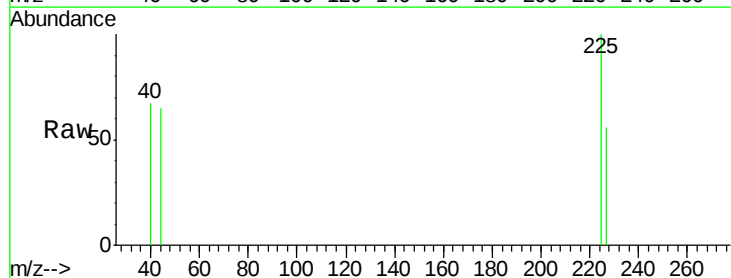


Abundance Ion 179.85 (179.55 to 180.55): V  
 Ion 181.85 (181.55 to 182.55): V  
 Ion 144.95 (144.65 to 145.65): V

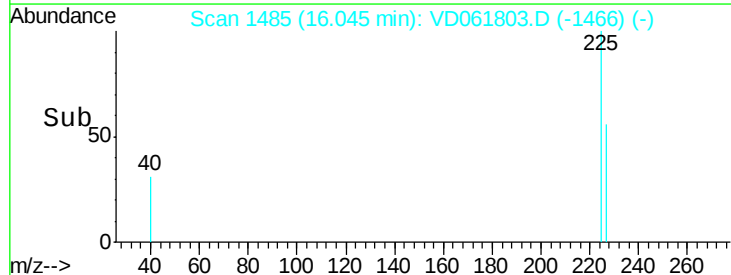
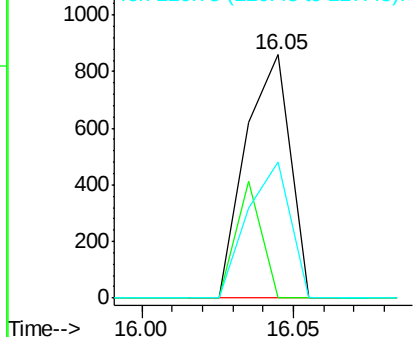


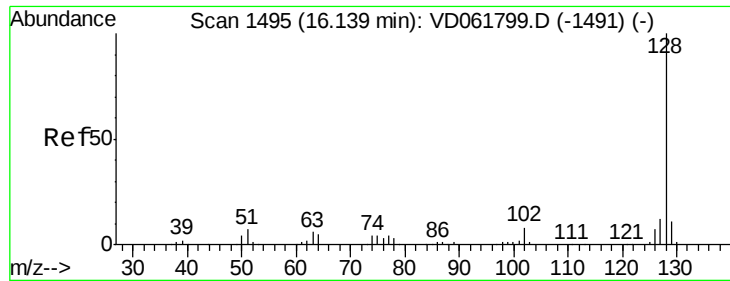
#94  
 Hexachlorobutadiene  
 Concen: 23.770 ug/l  
 RT: 16.05 min Scan# 1485  
 Delta R.T. -0.02 min  
 Lab File: VD061803.D  
 Acq: 16 Apr 2019 9:30

Tgt Ion:225 Resp: 875  
 Ion Ratio Lower Upper  
 225 100  
 223 0.0 30.6 92.0#  
 227 55.8 32.0 96.2



Abundance Ion 224.75 (224.45 to 225.45): V  
 Ion 222.75 (222.45 to 223.45): V  
 Ion 226.75 (226.45 to 227.45): V

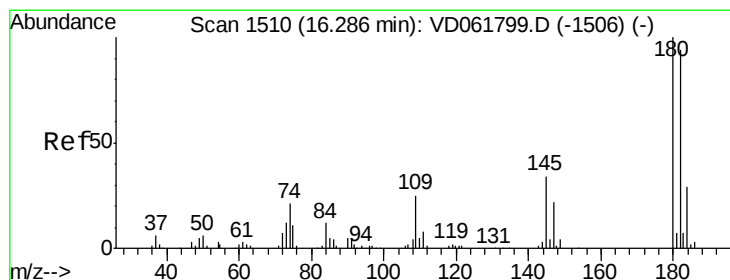
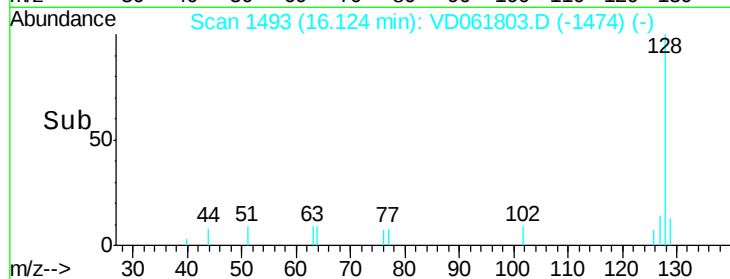
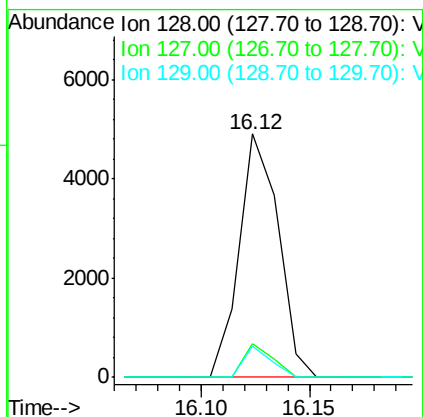
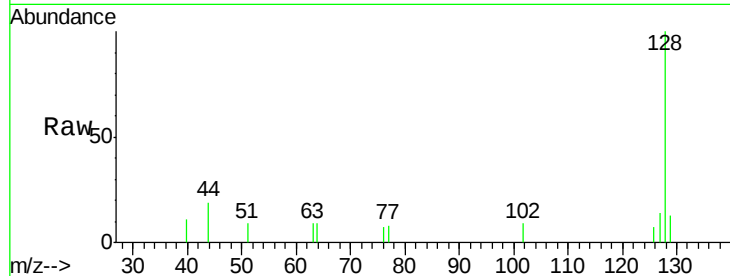




#95  
Naphthalene  
Concen: 79.172 ug/l  
RT: 16.12 min Scan# 1493  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:128 Resp: 6164  
Ion Ratio Lower Upper  
128 100  
127 13.9 9.8 14.8  
129 12.8 8.8 13.2



#96  
1,2,3-Trichlorobenzene  
Concen: 61.148 ug/l  
RT: 16.27 min Scan# 1508  
Delta R.T. -0.02 min  
Lab File: VD061803.D  
Acq: 16 Apr 2019 9:30

Tgt Ion:180 Resp: 1770  
Ion Ratio Lower Upper  
180 100  
182 97.6 47.0 141.0  
145 25.6 17.0 51.0

