

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042419\  
 Data File : VD061998.D  
 Acq On : 24 Apr 2019 15:23  
 Operator : VA/AP  
 Sample : K2204-03RE  
 Misc : 6.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 25 09:10:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 14:52:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 479725   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 785961   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 615632   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 183212   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 222220   | 59.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.38% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 315610   | 58.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.12% |          |
| 50) Toluene-d8              | 10.41 | 98   | 605900   | 46.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.68%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 209956   | 40.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 80.94%  |          |

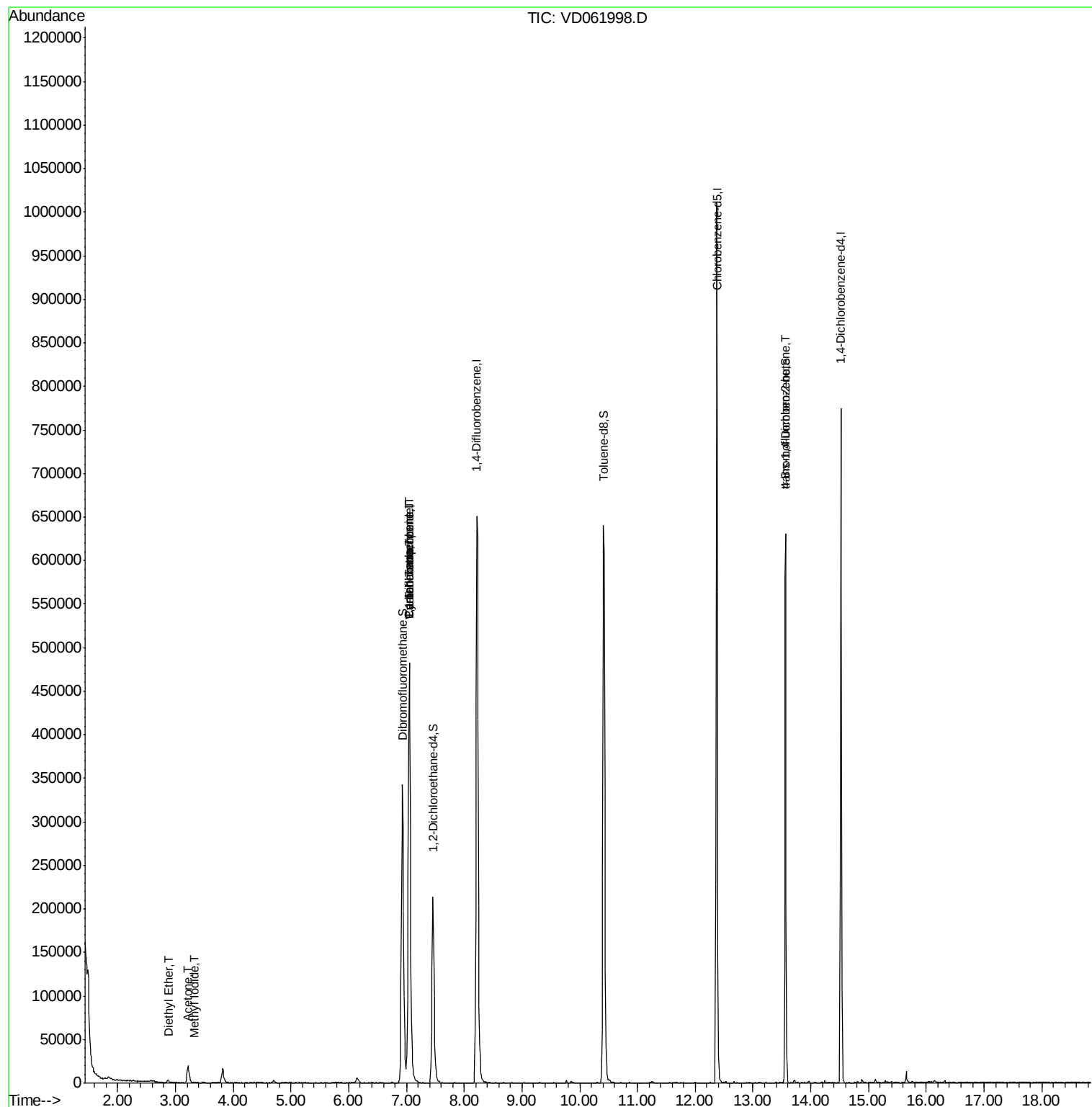
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.13  | 94   | 196      | Below Cal | #      | 12     |
| 8) Diethyl Ether               | 2.87  | 74   | 1350     | 1.010     | ug/l   | 96     |
| 10) Methyl Iodide              | 3.33  | 142  | 226      | 5.457     | ug/l # | 37     |
| 16) Acetone                    | 3.22  | 43   | 36020    | 40.179    | ug/l # | 90     |
| 18) Methyl Acetate             | 3.63  | 43   | 577      | Below Cal | #      | 53     |
| 20) Methylene Chloride         | 3.82  | 84   | 11122    | Below Cal | #      | 81     |
| 31) Cyclohexane                | 7.05  | 56   | 7679     | 1.373     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.05  | 75   | 34975    | 5.712     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.05  | 117  | 46946    | 6.050     | ug/l # | 17     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 79077    | 112.162   | ug/l # | 16     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD042419\  
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MSVOA\_D  
ClientSampleId :

Quant Time: Apr 25 09:10:25 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 23 14:52:55 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061998.D

Acq: 24 Apr 2019 15:23

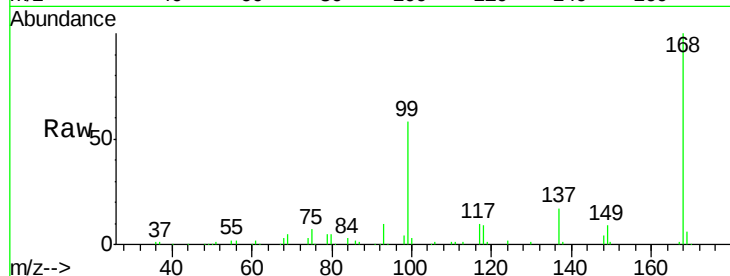
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 479725

Ion Ratio Lower Upper

168 100

99 57.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

150000

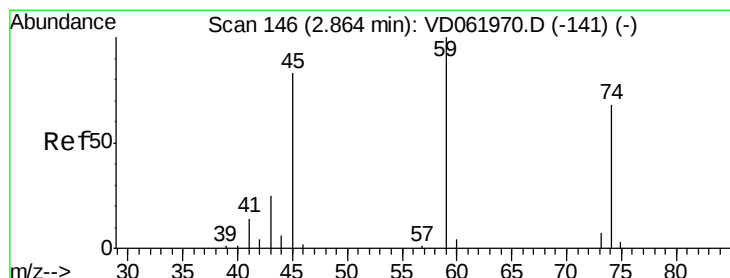
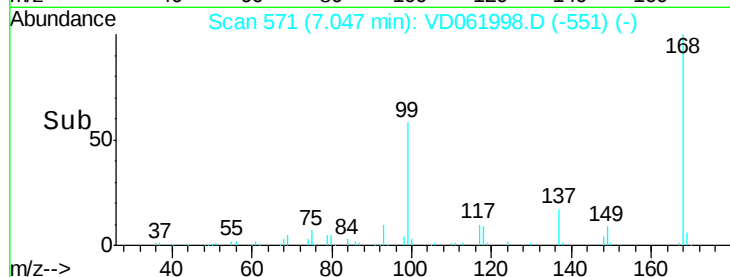
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#8

Diethyl Ether

Concen: 1.010 ug/l

RT: 2.87 min Scan# 147

Delta R.T. -0.01 min

Lab File: VD061998.D

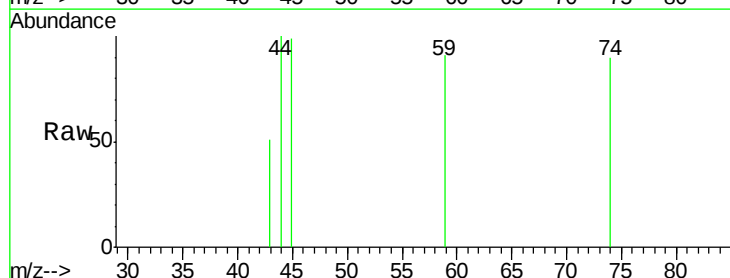
Acq: 24 Apr 2019 15:23

Tgt Ion: 74 Resp: 1350

Ion Ratio Lower Upper

74 100

45 109.3 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

1000

800

600

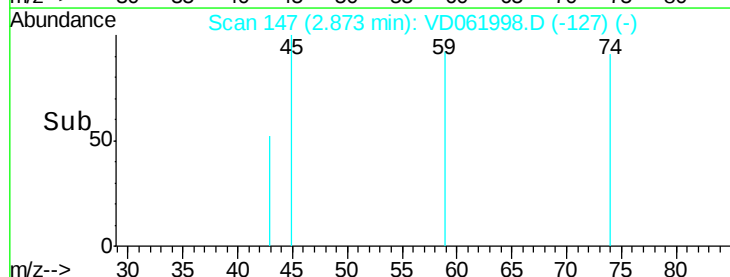
400

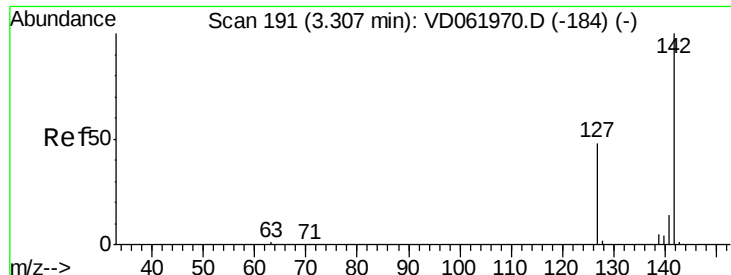
200

0

2.80 2.85 2.90

Time-->

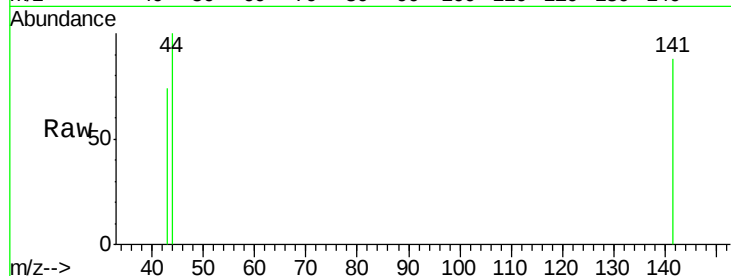




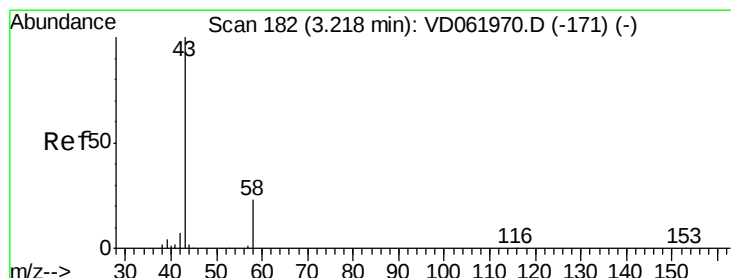
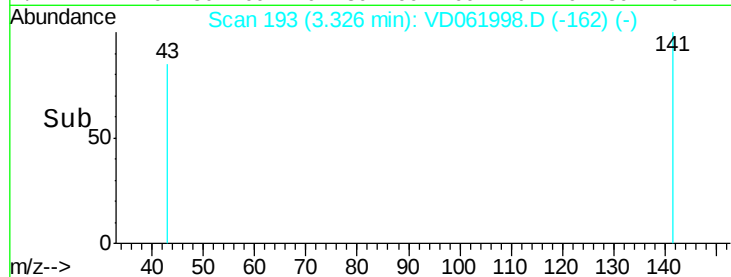
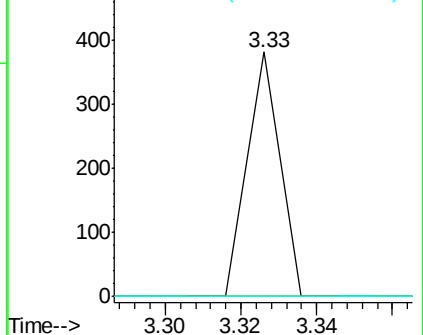
#10  
Methyl Iodide  
Concen: 5.457 ug/l  
RT: 3.33 min Scan# 193  
Delta R.T. 0.00 min  
Lab File: VD061998.D  
Acq: 24 Apr 2019 15:23

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:142 Resp: 226  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.8 58.2#  
141 0.0 11.4 17.0#

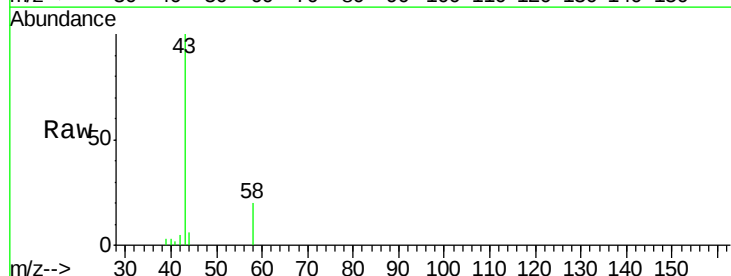


Abundance Ion 141.85 (141.55 to 142.55): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.85 (140.55 to 141.55): V

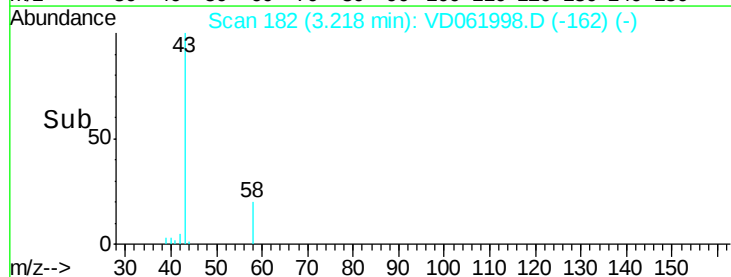
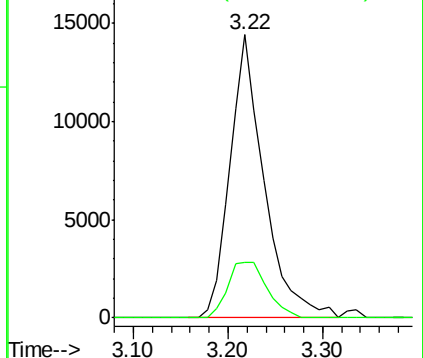


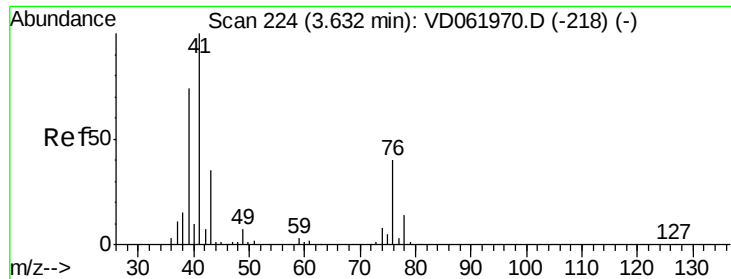
#16  
Acetone  
Concen: 40.179 ug/l  
RT: 3.22 min Scan# 182  
Delta R.T. -0.01 min  
Lab File: VD061998.D  
Acq: 24 Apr 2019 15:23

Tgt Ion: 43 Resp: 36020  
Ion Ratio Lower Upper  
43 100  
58 19.7 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 57.95 (57.65 to 58.65): VDC

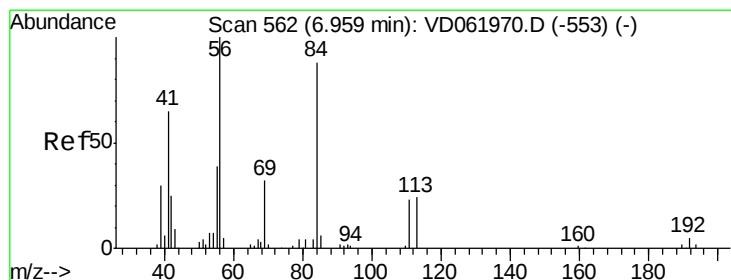
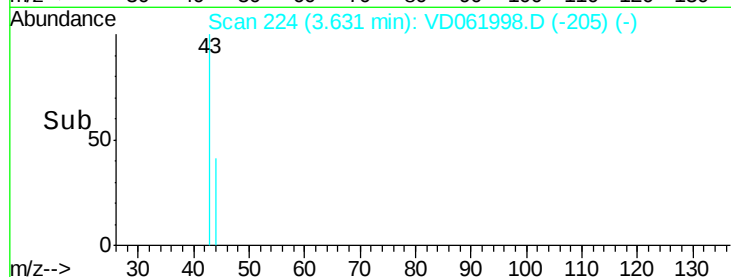
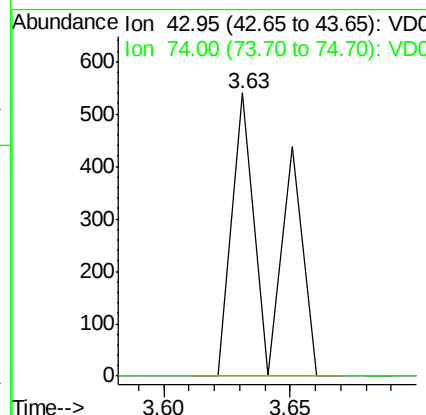
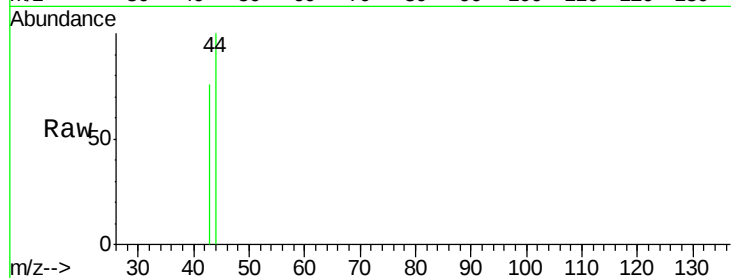




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 3.63 min Scan# 224  
Delta R.T. -0.01 min  
Lab File: VD061998.D  
Acq: 24 Apr 2019 15:23

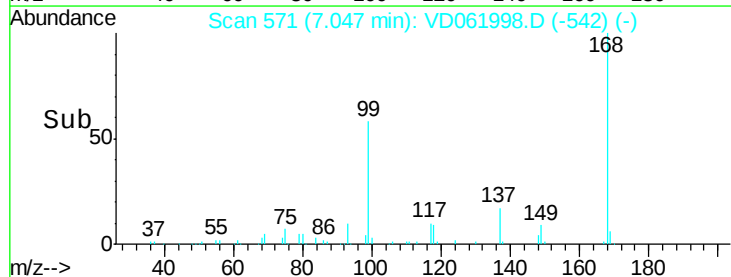
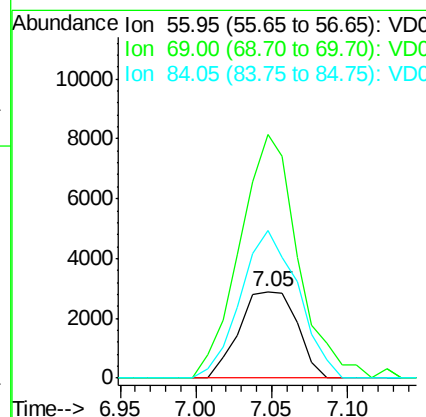
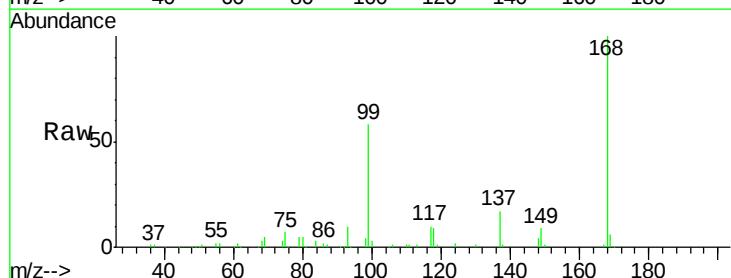
Instrument :  
MSVOA\_D  
ClientSampleId :

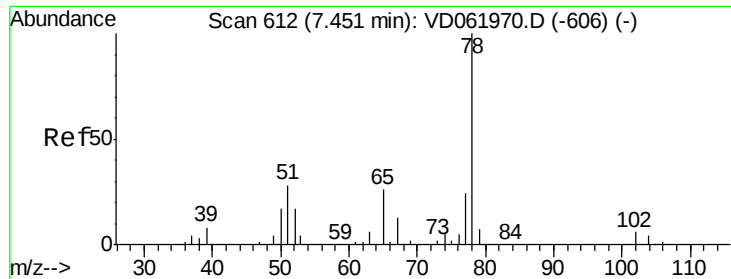
Tot Ion: 43 Resp: 577  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.0 27.0#



#31  
Cyclohexane  
Concen: 1.373 ug/l  
RT: 7.05 min Scan# 571  
Delta R.T. 0.08 min  
Lab File: VD061998.D  
Acq: 24 Apr 2019 15:23

Tgt Ion: 56 Resp: 7679  
Ion Ratio Lower Upper  
56 100  
69 281.0 25.8 38.6#  
84 170.2 72.2 108.4#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD061998.D

Acq: 24 Apr 2019 15:23

Instrument :

MSVOA\_D

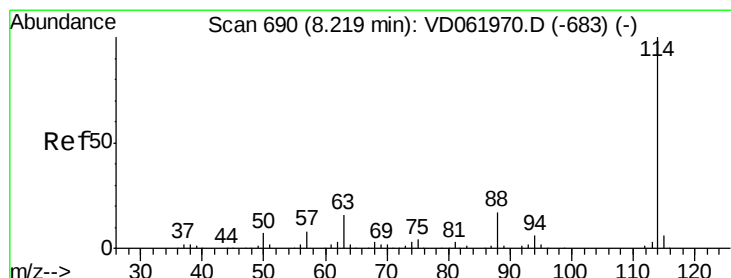
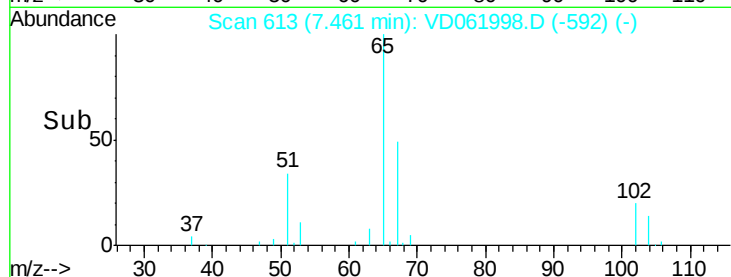
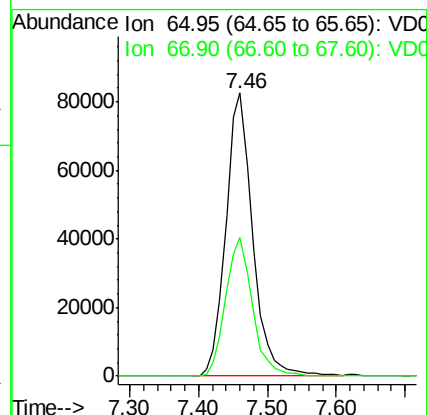
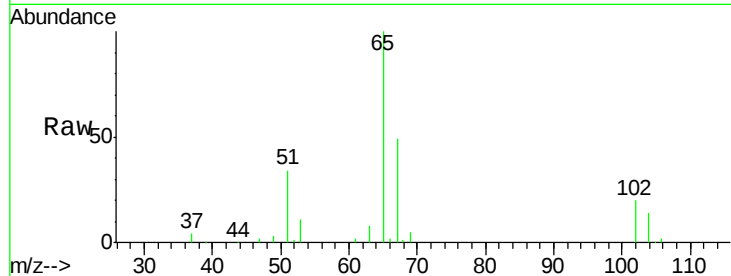
ClientSampleId :

Tot Ion: 65 Resp: 222220

Ion Ratio Lower Upper

65 100

67 48.9 0.0 98.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD061998.D

Acq: 24 Apr 2019 15:23

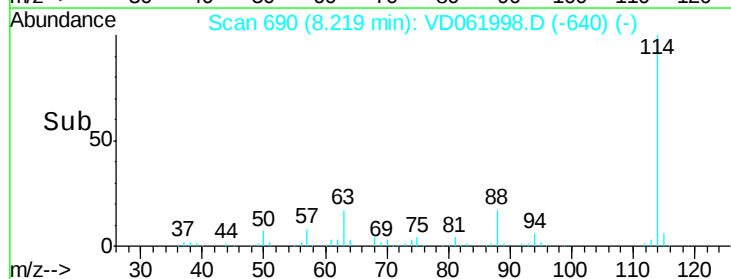
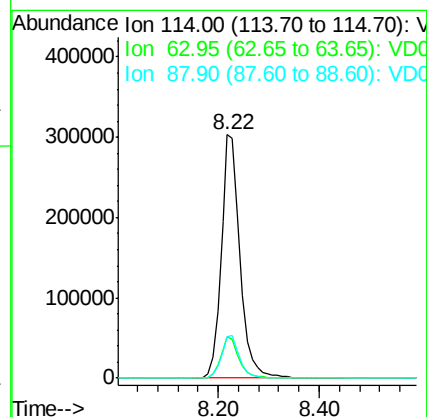
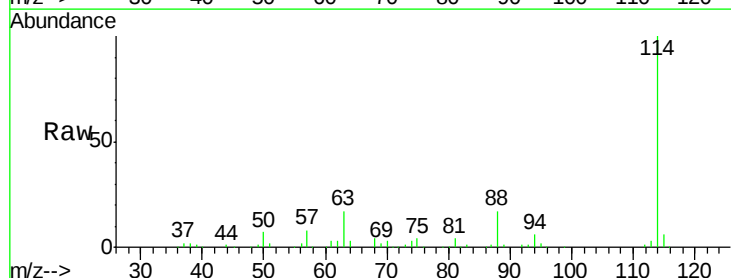
Tgt Ion: 114 Resp: 785961

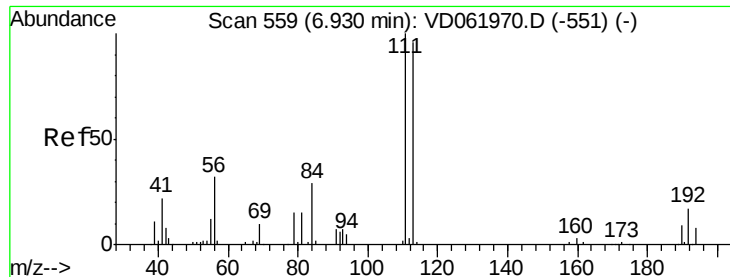
Ion Ratio Lower Upper

114 100

63 16.9 0.0 32.4

88 17.1 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD061998.D

Acq: 24 Apr 2019 15:23

Instrument :  
MSVOA\_D  
ClientSampled :

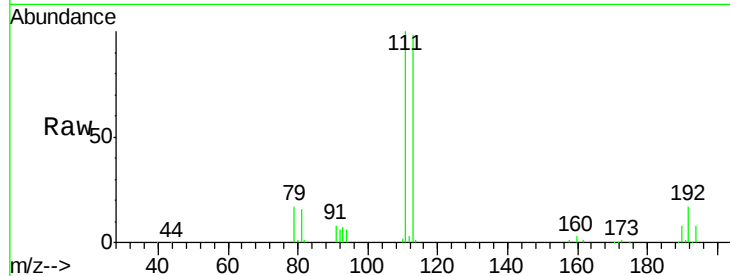
Tot Ion:113 Resp: 315610

Ion Ratio Lower Upper

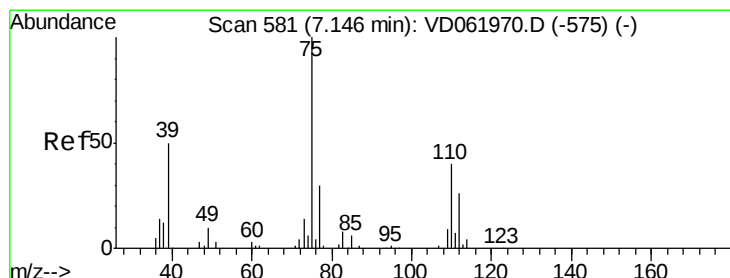
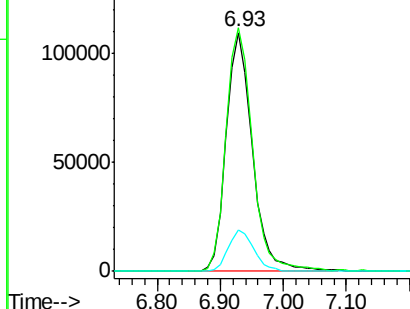
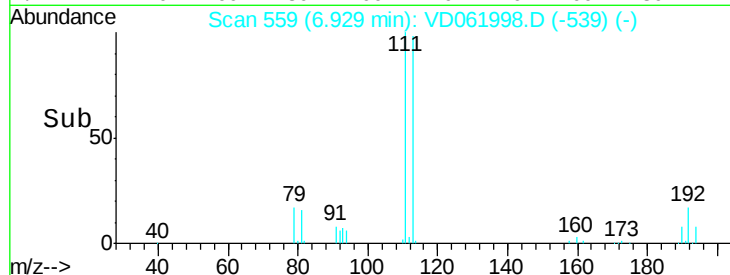
113 100

111 101.9 78.5 117.7

192 17.1 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.712 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD061998.D

Acq: 24 Apr 2019 15:23

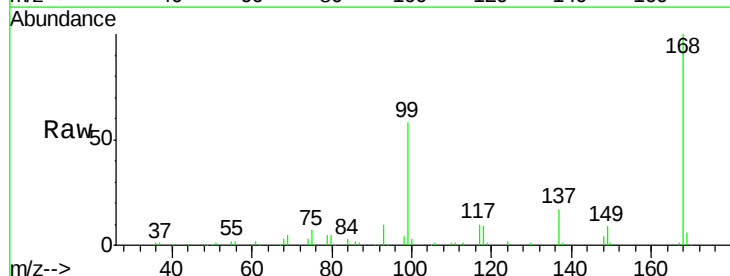
Tgt Ion: 75 Resp: 34975

Ion Ratio Lower Upper

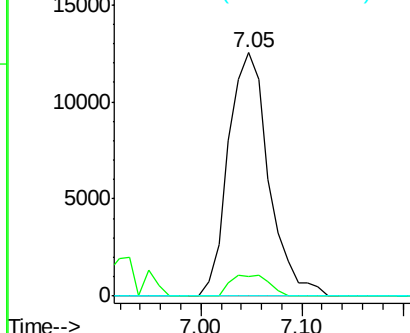
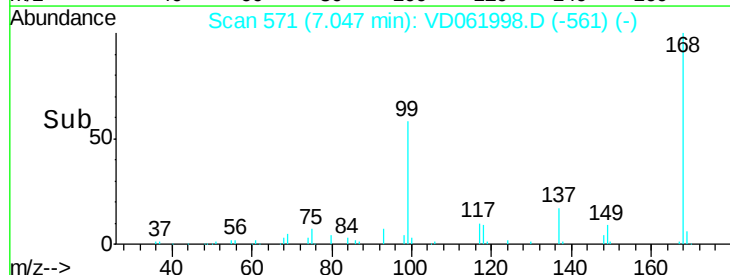
75 100

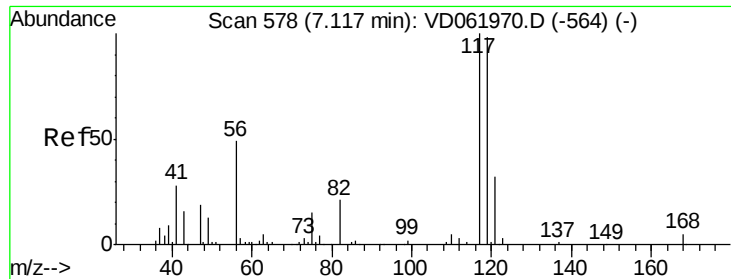
110 8.3 19.1 57.1#

77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 6.050 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061998.D

Acq: 24 Apr 2019 15:23

Instrument :

MSVOA\_D

ClientSampleId :

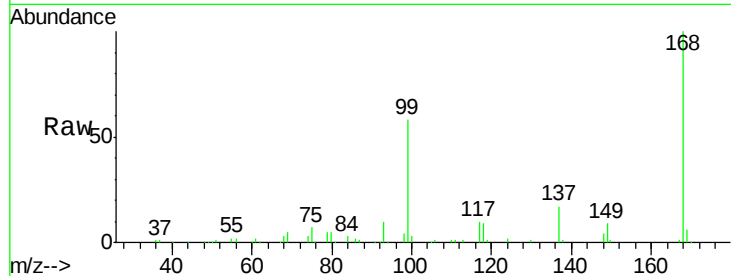
Tot Ion:117 Resp: 46946

Ion Ratio Lower Upper

117 100

119 6.0 75.8 113.8#

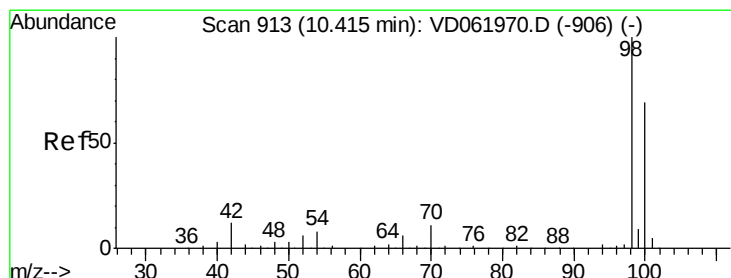
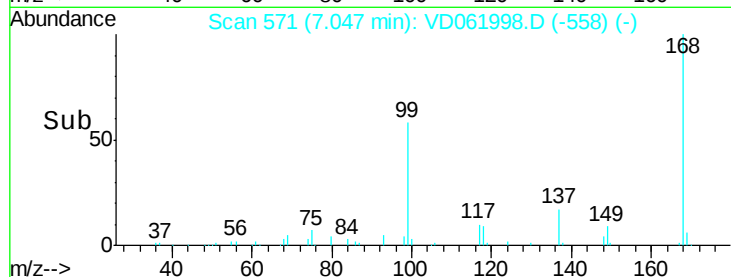
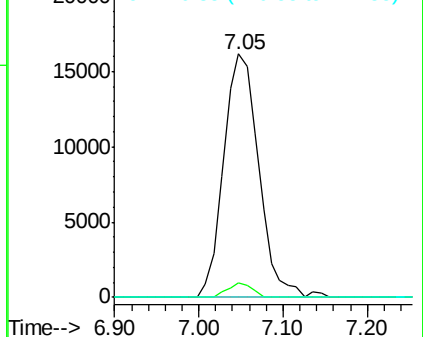
121 0.0 25.9 38.9#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD061998.D

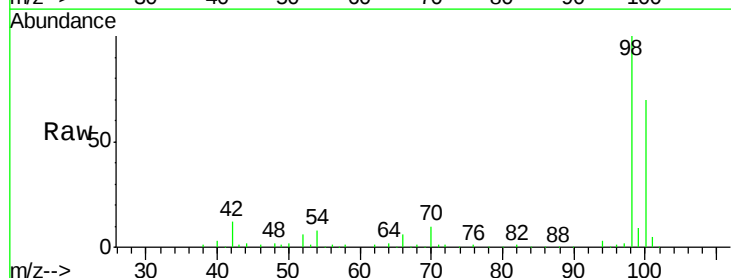
Acq: 24 Apr 2019 15:23

Tgt Ion: 98 Resp: 605900

Ion Ratio Lower Upper

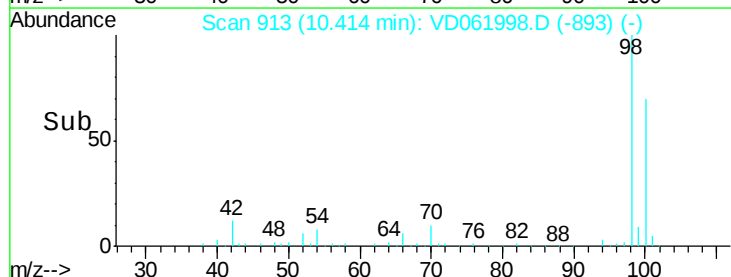
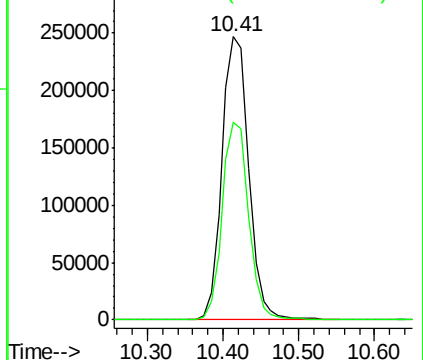
98 100

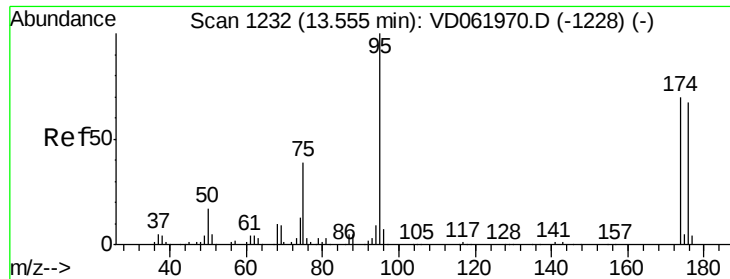
100 70.0 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

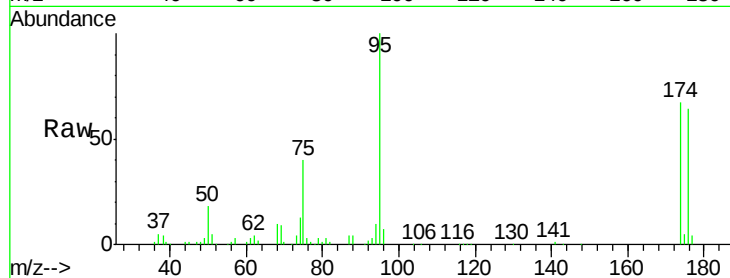




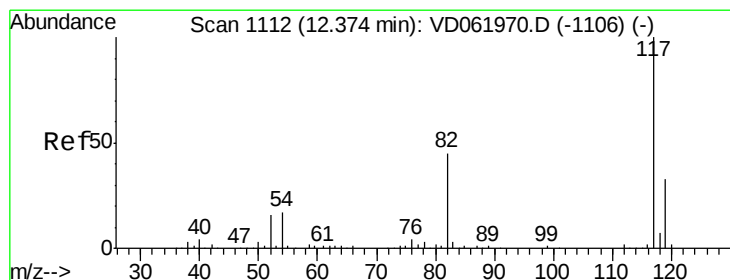
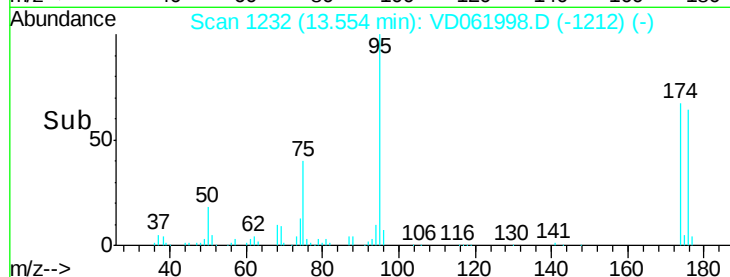
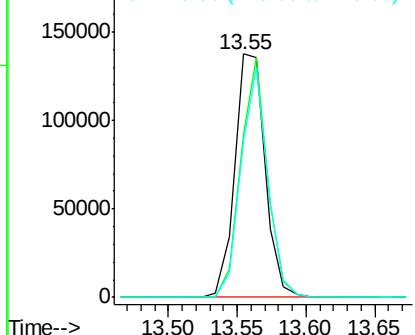
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. -0.01 min  
Lab File: VD061998.D  
Acq: 24 Apr 2019 15:23

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 95 Resp: 209956  
Ion Ratio Lower Upper  
95 100  
174 67.0 0.0 181.8  
176 64.4 0.0 174.4

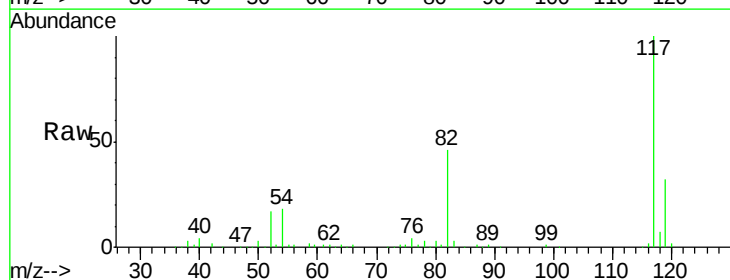


Abundance Ion 95.00 (94.70 to 95.70): V  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

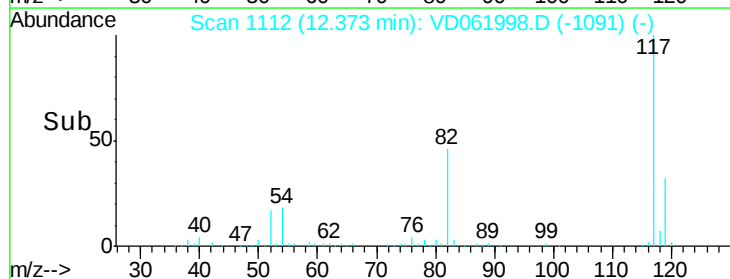
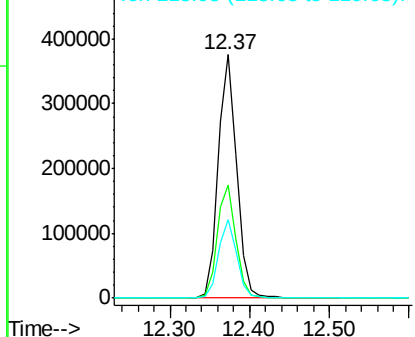


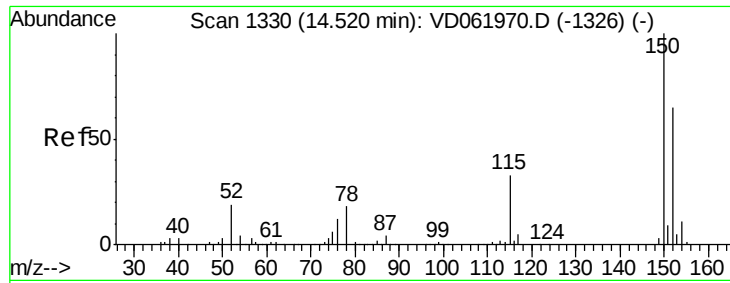
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.00 min  
Lab File: VD061998.D  
Acq: 24 Apr 2019 15:23

Tgt Ion: 117 Resp: 615632  
Ion Ratio Lower Upper  
117 100  
82 46.4 36.2 54.2  
119 32.4 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



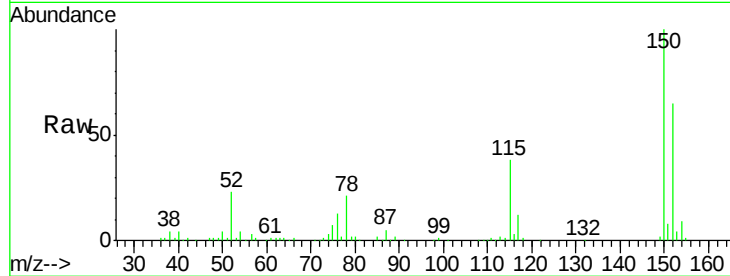


#72

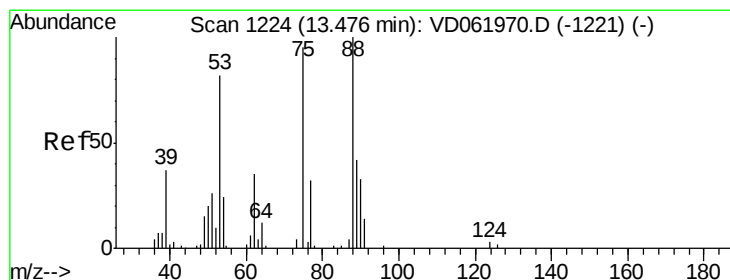
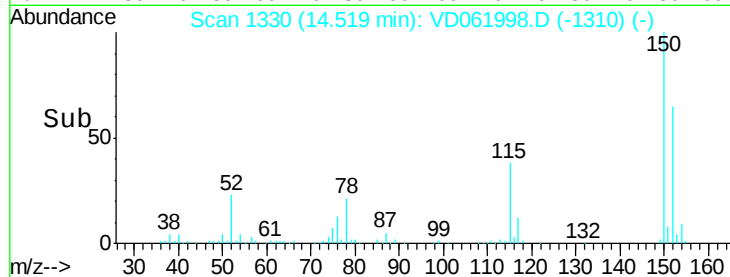
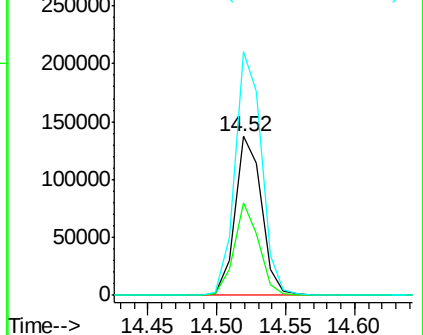
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: VD061998.D  
Acq: 24 Apr 2019 15:23

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:152 Resp: 183212  
Ion Ratio Lower Upper  
152 100  
115 58.4 30.9 92.7  
150 153.6 0.0 314.8



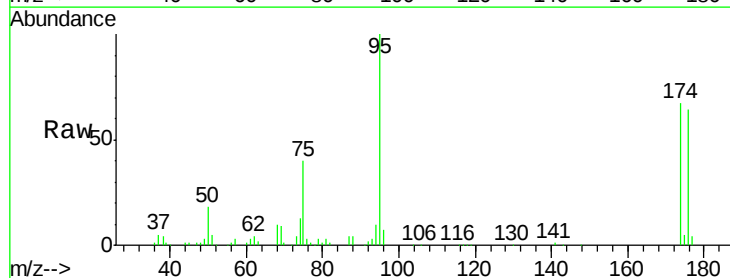
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene  
Concen: 112.162 ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. 0.07 min  
Lab File: VD061998.D  
Acq: 24 Apr 2019 15:23

Tgt Ion: 75 Resp: 79077  
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

