

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120618\  
 Data File : VD060499.D  
 Acq On : 6 Dec 2018 11:39  
 Operator : VA/AP  
 Sample : VD1206SBL01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 07 03:30:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 06 01:49:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.40  | 168  | 1715802  | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 7.44  | 114  | 2353098  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 1883167  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 950266   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.79  | 65   | 634505   | 52.17 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.34% |          |
| 35) Dibromofluoromethane    | 6.32  | 113  | 888095   | 51.38 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.76% |          |
| 50) Toluene-d8              | 9.44  | 98   | 2617180  | 52.33 | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.66% |          |
| 62) 4-Bromofluorobenzene    | 12.42 | 95   | 909963   | 50.84 | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.68% |          |

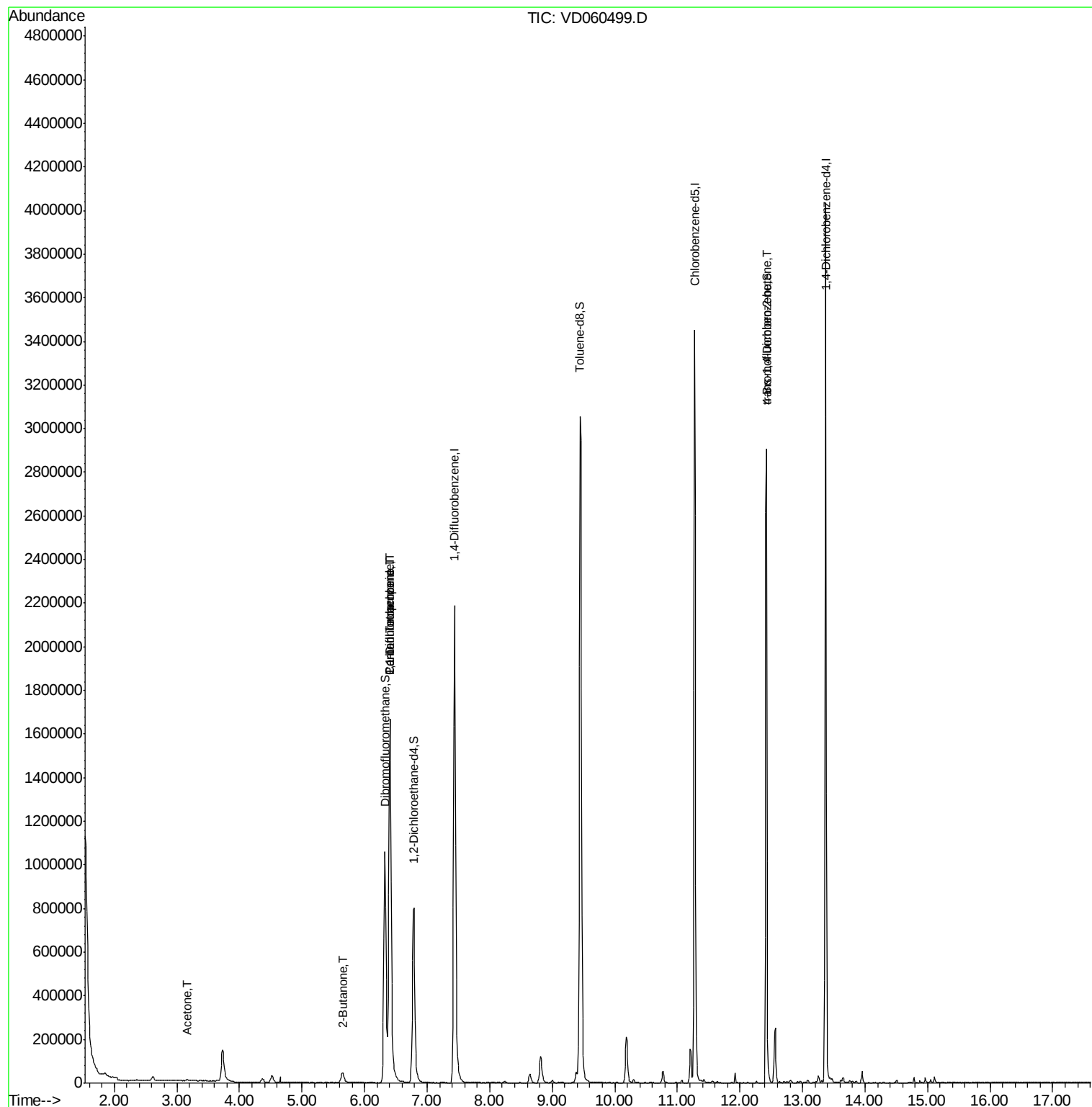
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.60  | 85   | 1774     | Below Cal |        | 71     |
| 16) Acetone                    | 3.16  | 43   | 12088    | 6.201     | ug/l   | 99     |
| 25) 2-Butanone                 | 5.65  | 43   | 6398     | 1.668     | ug/l # | 59     |
| 31) Cyclohexane                | 6.40  | 56   | 35241    | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 6.40  | 75   | 125244   | 5.445     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 6.40  | 117  | 137606   | 6.664     | ug/l # | 16     |
| 81) trans-1,4-Dichloro-2-buten | 12.42 | 75   | 361037   | 120.226   | ug/l # | 14     |
| 89) n-Butylbenzene             | 13.65 | 91   | 5331     | Below Cal |        | 99     |

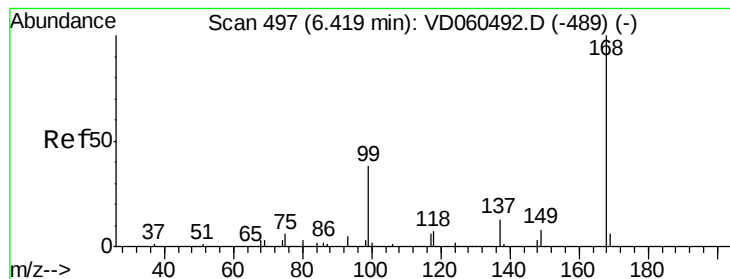
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD120618\  
Data File : VD060499.D  
Acq On : 6 Dec 2018 11:39  
Operator : VA/AP  
Sample : VD1206SBL01  
Misc : 5.00µl/5ml/MSVOA D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 07 03:30:59 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 06 01:49:20 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.02 min

Lab File: VD060499.D

Acq: 6 Dec 2018 11:39

Instrument :

MSVOA\_D

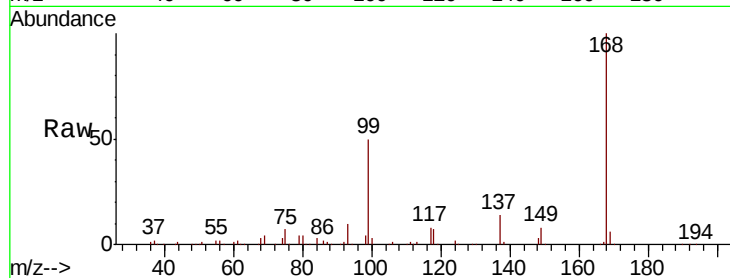
ClientSampleId :

Tot Ion:168 Resp: 1715802

Ion Ratio Lower Upper

168 100

99 49.9 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.40

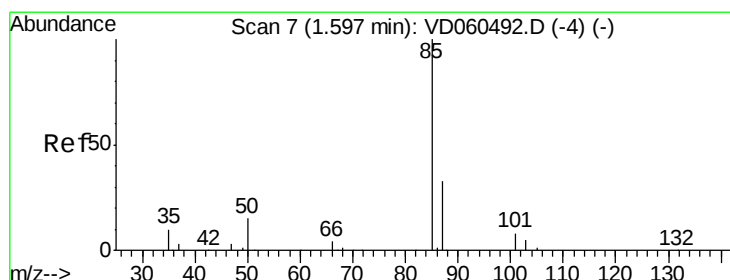
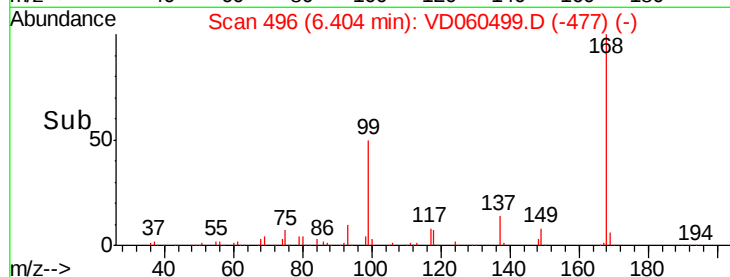
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.60 min Scan# 8

Delta R.T. 0.00 min

Lab File: VD060499.D

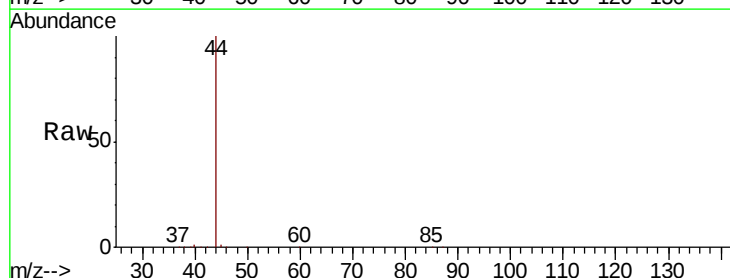
Acq: 6 Dec 2018 11:39

Tgt Ion: 85 Resp: 1774

Ion Ratio Lower Upper

85 100

87 49.9 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

800

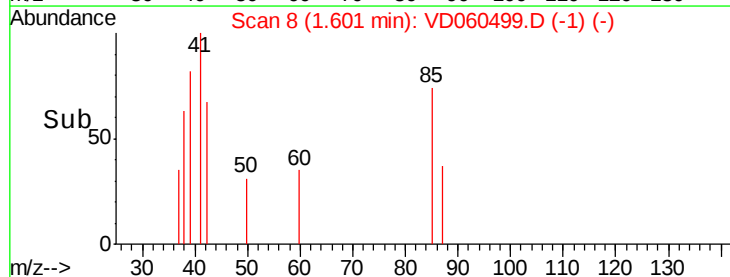
600

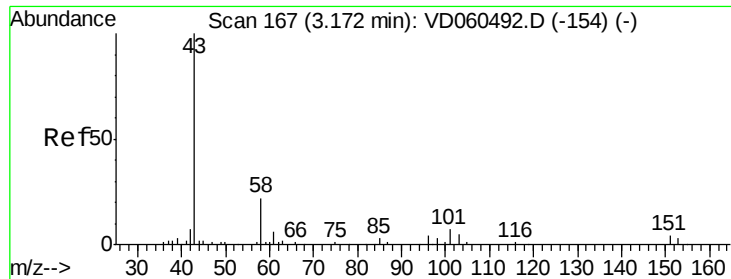
400

200

0

Time-->

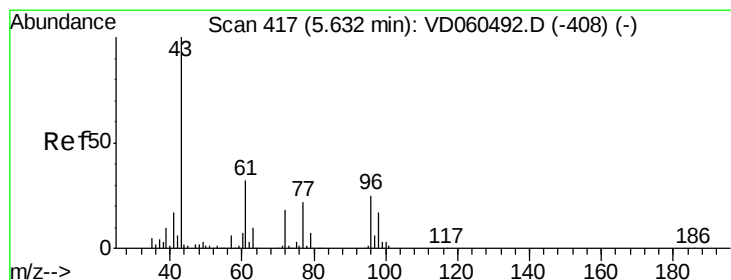
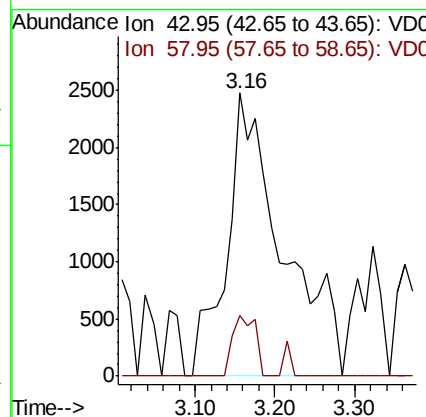
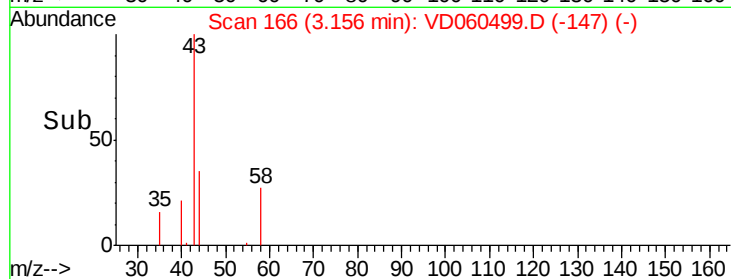
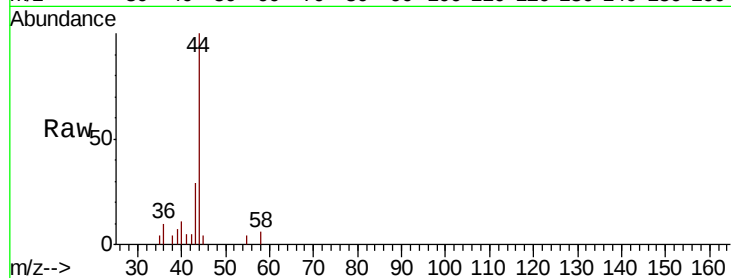




#16  
Acetone  
Concen: 6.201 ug/l  
RT: 3.16 min Scan# 166  
Delta R.T. -0.02 min  
Lab File: VD060499.D  
Acq: 6 Dec 2018 11:39

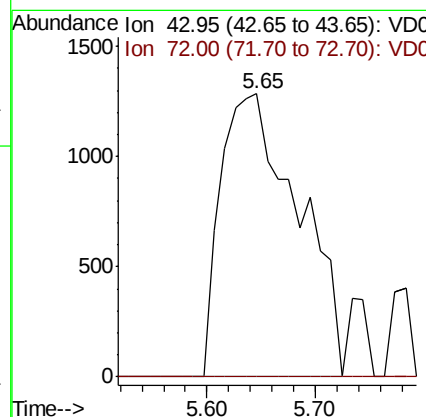
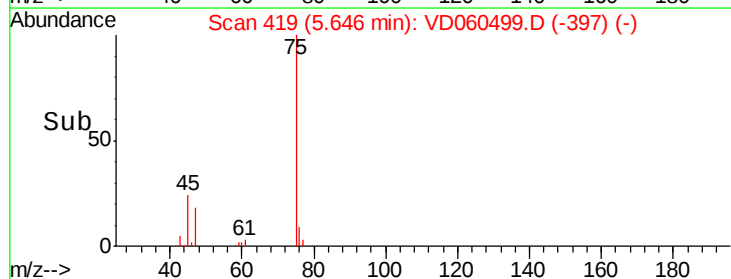
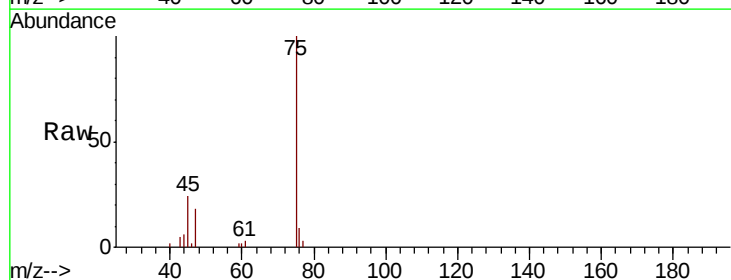
Instrument :  
MSVOA\_D  
ClientSampleId :

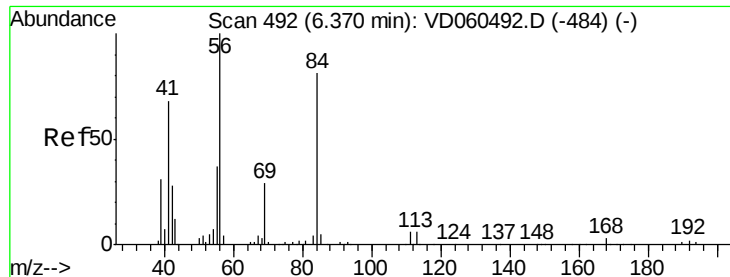
Tot Ion: 43 Resp: 12088  
Ion Ratio Lower Upper  
43 100  
58 21.3 17.3 25.9



#25  
2-Butanone  
Concen: 1.668 ug/l  
RT: 5.65 min Scan# 419  
Delta R.T. 0.01 min  
Lab File: VD060499.D  
Acq: 6 Dec 2018 11:39

Tgt Ion: 43 Resp: 6398  
Ion Ratio Lower Upper  
43 100  
72 0.0 14.6 21.8#

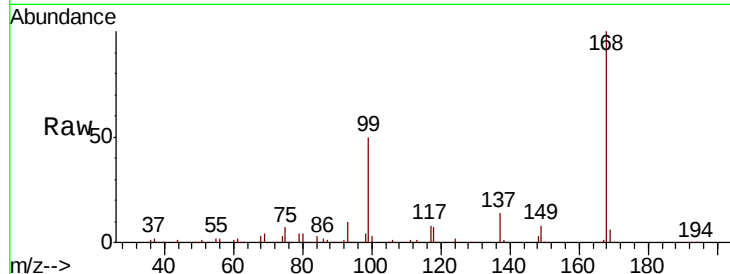




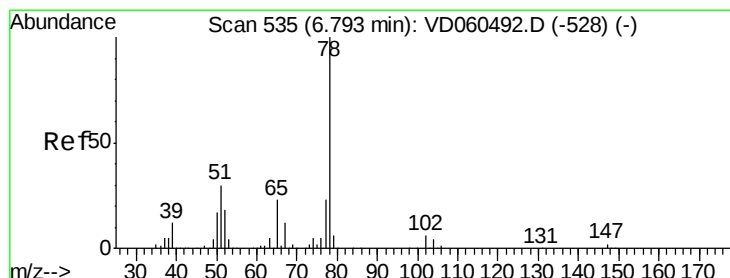
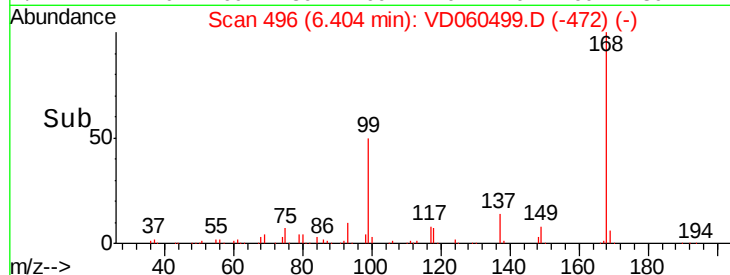
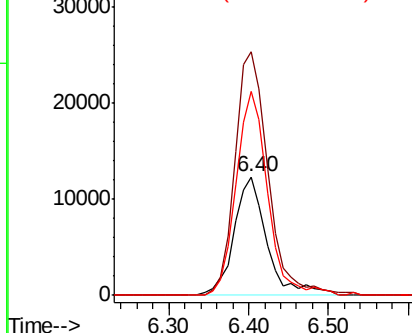
#31  
Cyclohexane  
Concen: Below Cal  
RT: 6.40 min Scan# 496  
Delta R.T. 0.03 min  
Lab File: VD060499.D  
Acq: 6 Dec 2018 11:39

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 56 Resp: 35241  
Ion Ratio Lower Upper  
56 100  
69 205.1 22.8 34.2#  
84 171.9 65.1 97.7#

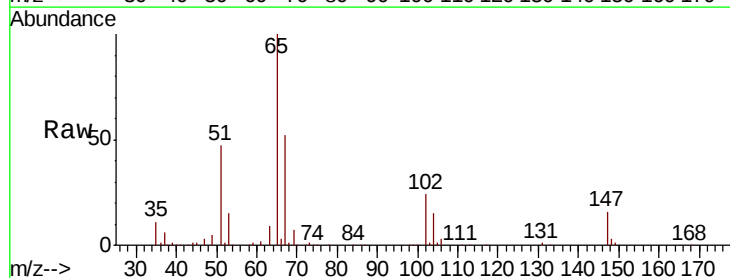


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

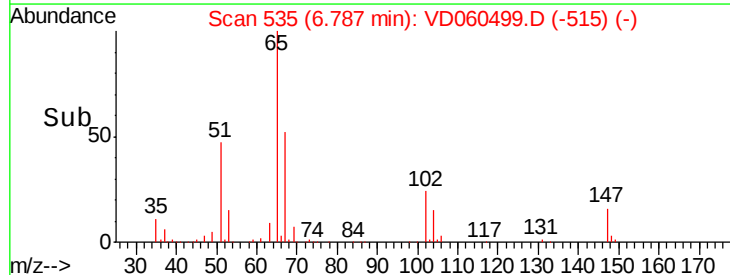
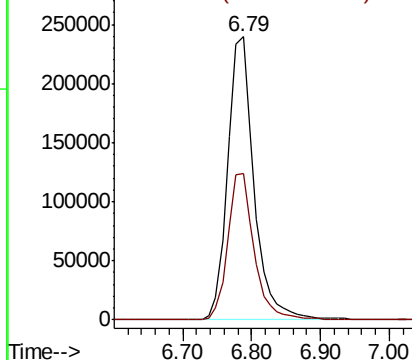


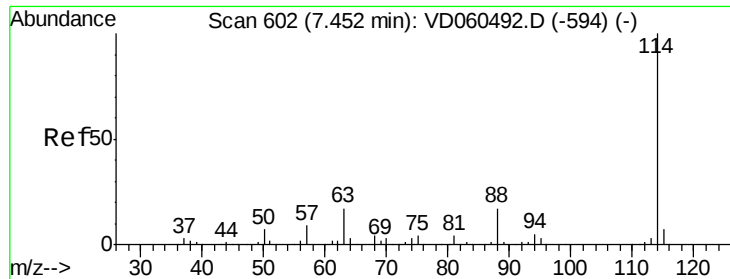
#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 6.79 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: VD060499.D  
Acq: 6 Dec 2018 11:39

Tgt Ion: 65 Resp: 634505  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

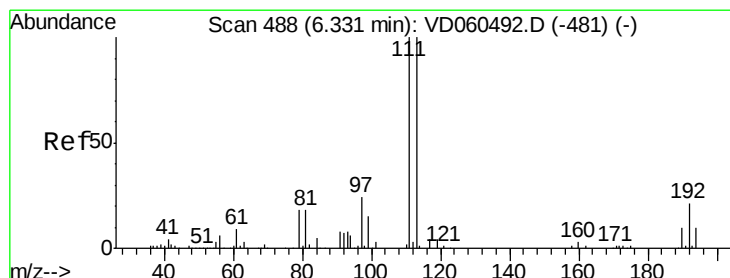
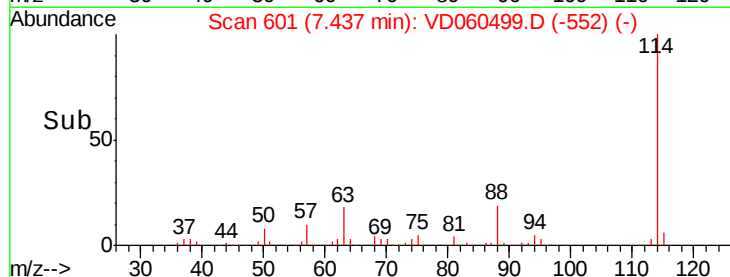
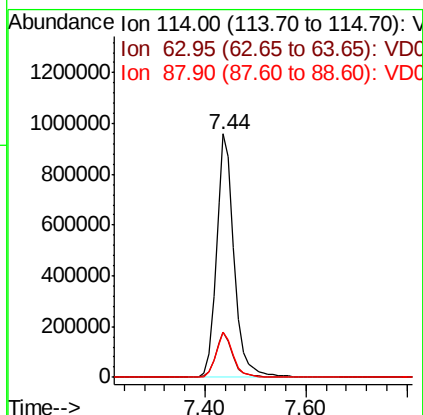
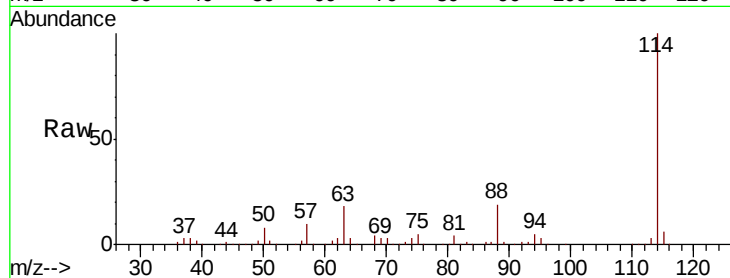




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 7.44 min Scan# 601  
Delta R.T. -0.02 min  
Lab File: VD060499.D  
Acq: 6 Dec 2018 11:39

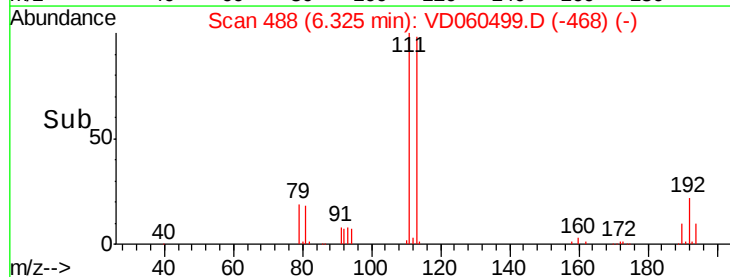
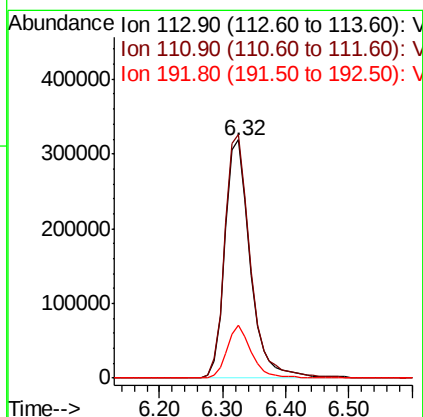
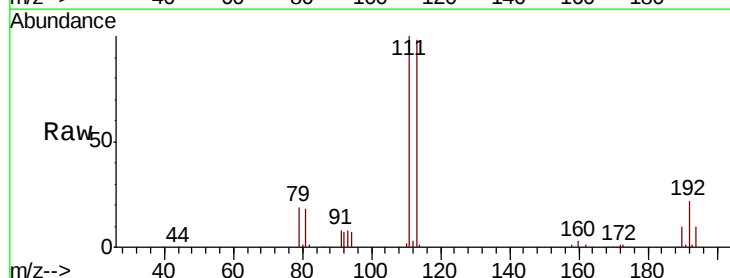
Instrument :  
MSVOA\_D  
ClientSampleId :

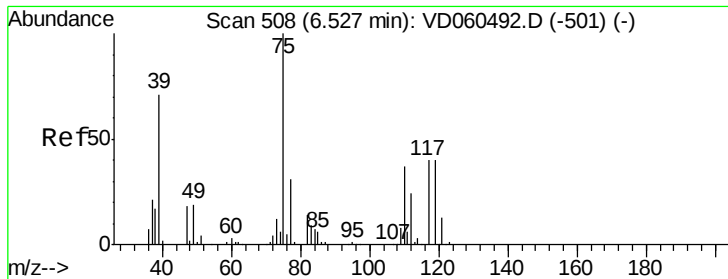
Tot Ion:114 Resp: 2353098  
Ion Ratio Lower Upper  
114 100  
63 18.4 0.0 34.2  
88 18.8 0.0 35.0



#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 6.32 min Scan# 488  
Delta R.T. -0.01 min  
Lab File: VD060499.D  
Acq: 6 Dec 2018 11:39

Tgt Ion:113 Resp: 888095  
Ion Ratio Lower Upper  
113 100  
111 102.2 80.2 120.4  
192 22.1 16.6 24.8





#36

1,1-Dichloropropene

Concen: 5.445 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.12 min

Lab File: VD060499.D

Acq: 6 Dec 2018 11:39

Instrument :  
MSVOA\_D  
ClientSampled :

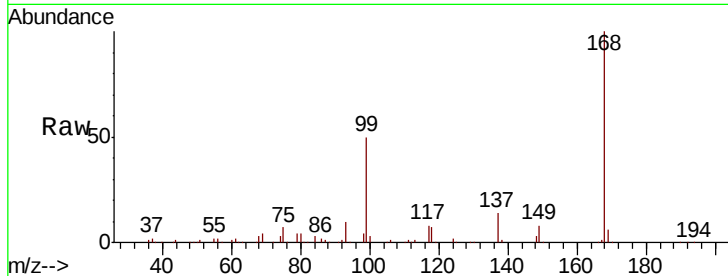
Tot Ion: 75 Resp: 125244

Ion Ratio Lower Upper

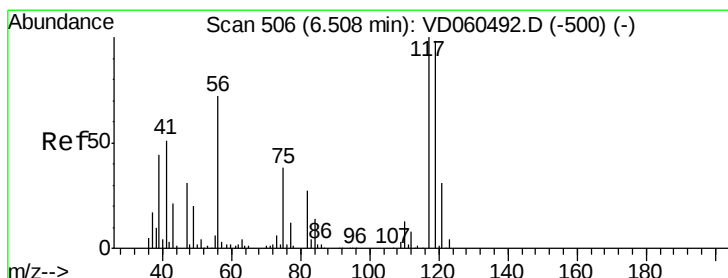
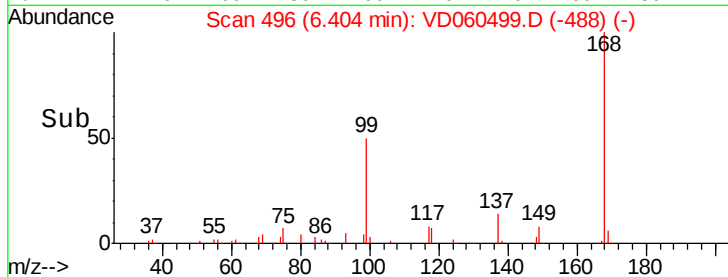
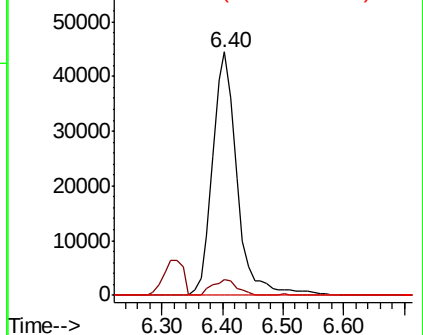
75 100

110 6.5 18.3 54.8#

77 0.0 24.6 37.0#



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



#38

Carbon Tetrachloride

Concen: 6.664 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.10 min

Lab File: VD060499.D

Acq: 6 Dec 2018 11:39

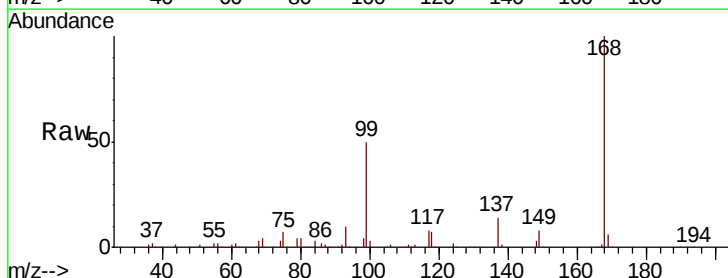
Tgt Ion: 117 Resp: 137606

Ion Ratio Lower Upper

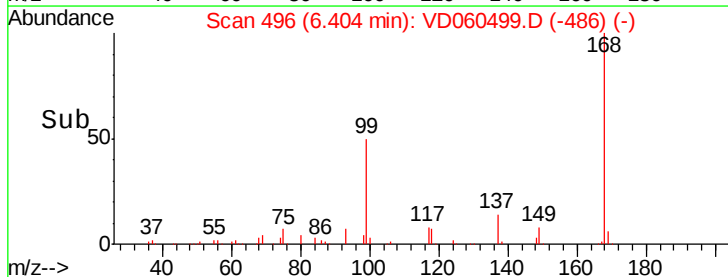
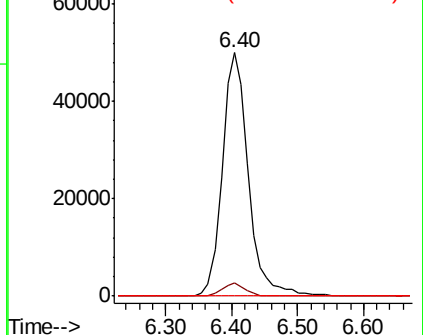
117 100

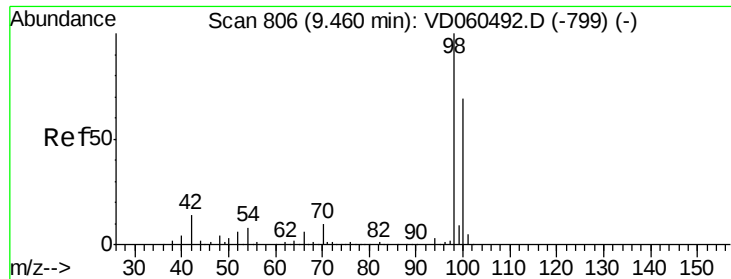
119 5.2 76.8 115.2#

121 0.0 24.4 36.6#



Abundance Ion 116.85 (116.55 to 117.55): VDC  
Ion 118.85 (118.55 to 119.55): VDC  
Ion 120.85 (120.55 to 121.55): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.44 min Scan# 805

Delta R.T. -0.02 min

Lab File: VD060499.D

Acq: 6 Dec 2018 11:39

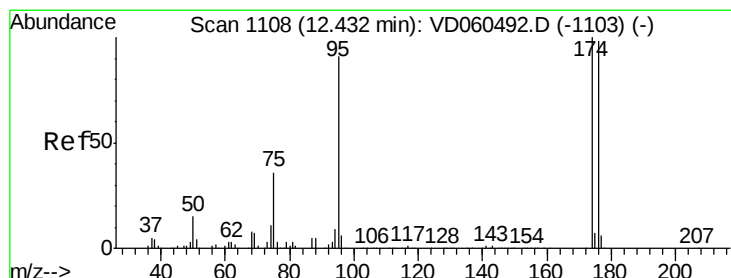
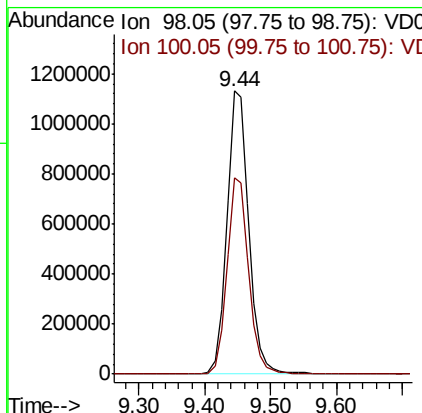
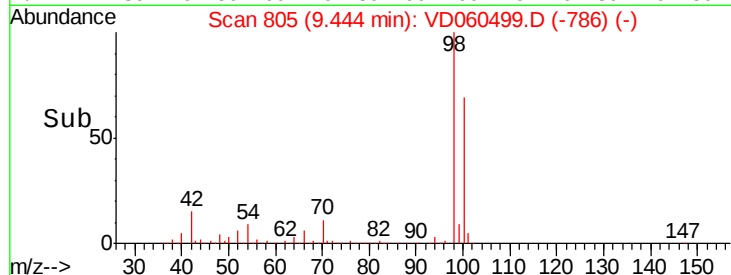
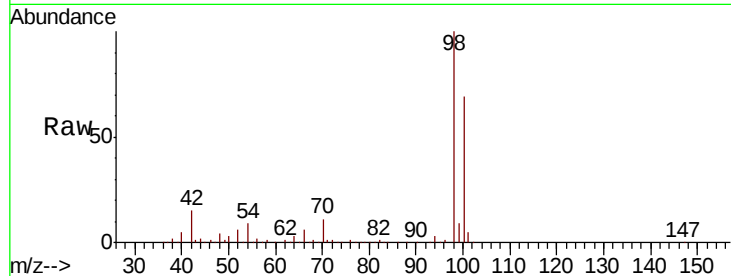
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 98 Resp: 2617180

Ion Ratio Lower Upper

98 100

100 69.3 55.7 83.5



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.02 min

Lab File: VD060499.D

Acq: 6 Dec 2018 11:39

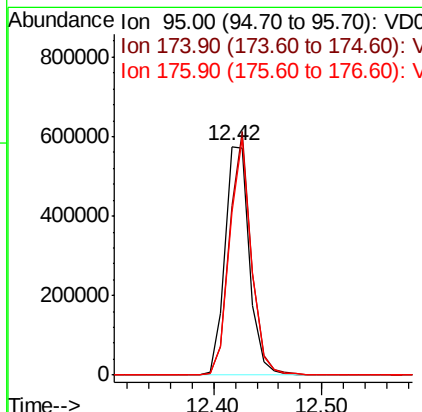
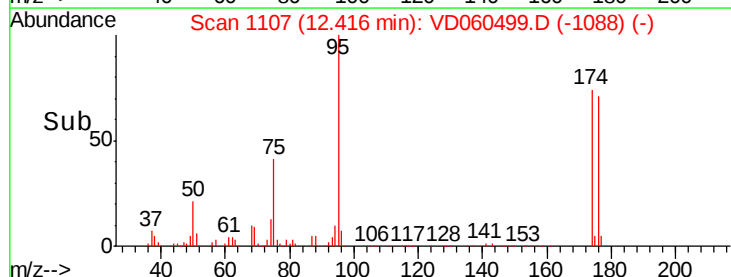
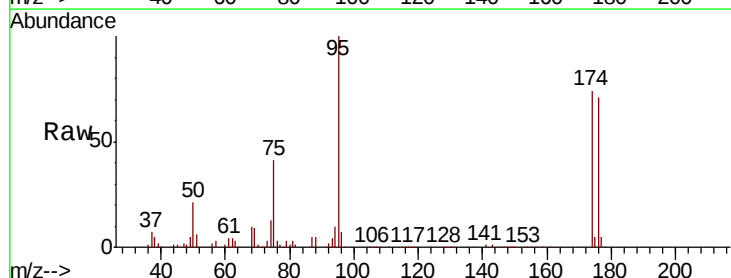
Tgt Ion: 95 Resp: 909963

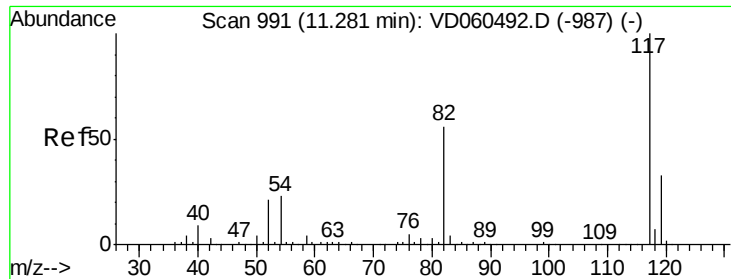
Ion Ratio Lower Upper

95 100

174 74.2 0.0 219.4

176 71.2 0.0 214.6

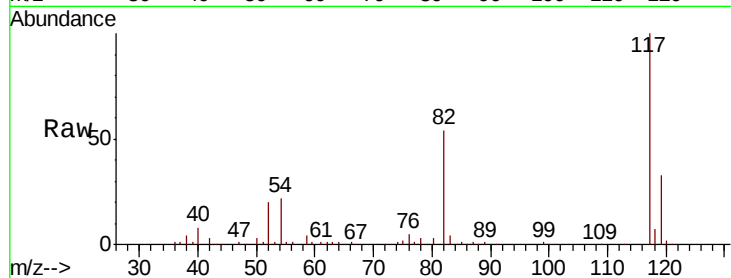




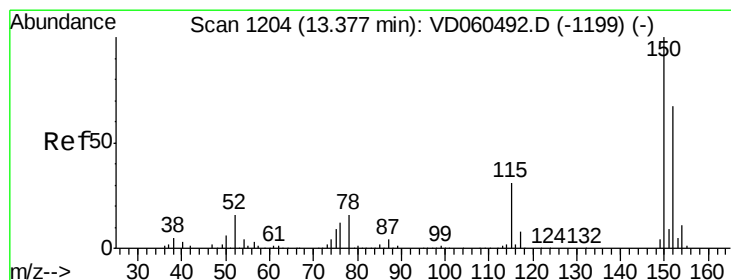
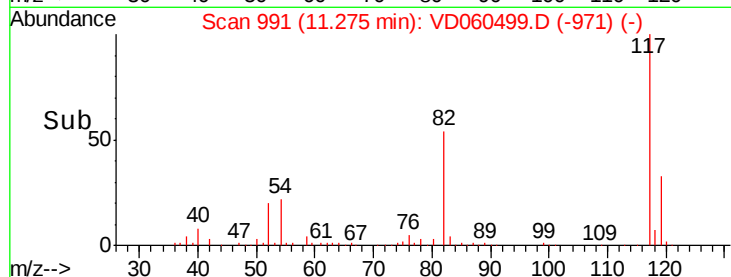
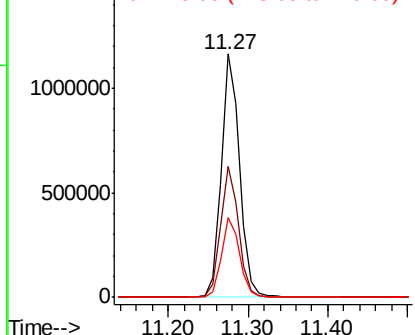
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.27 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VD060499.D  
Acq: 6 Dec 2018 11:39

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 1883167  
Ion Ratio Lower Upper  
117 100  
82 54.0 45.2 67.8  
119 32.5 26.1 39.1

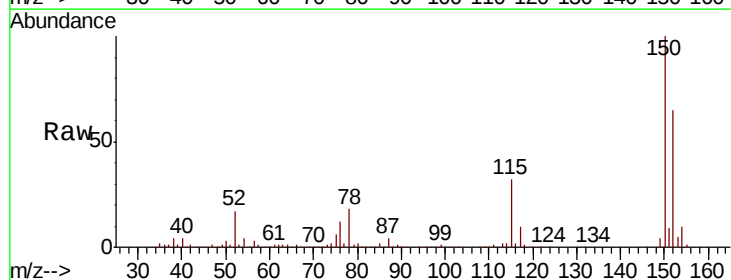


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

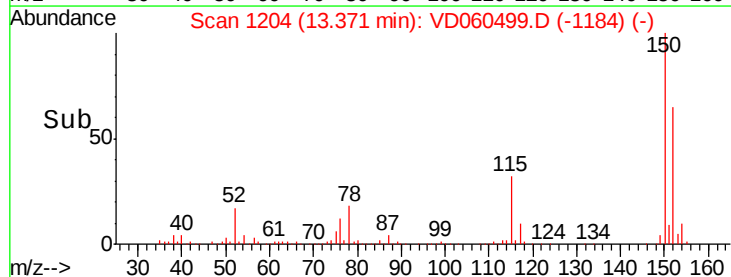
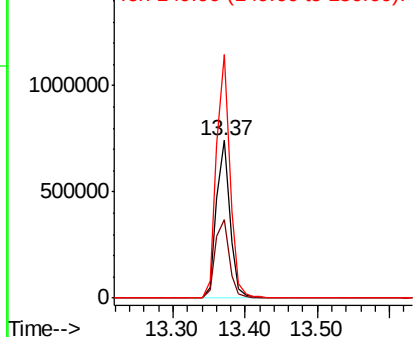


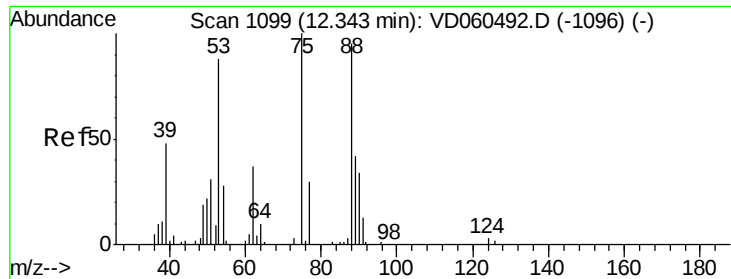
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.37 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: VD060499.D  
Acq: 6 Dec 2018 11:39

Tgt Ion:152 Resp: 950266  
Ion Ratio Lower Upper  
152 100  
115 49.7 24.6 74.0  
150 154.6 0.0 309.0



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: 120.226 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.07 min

Lab File: VD060499.D

Acq: 6 Dec 2018 11:39

Instrument :

MSVOA\_D

ClientSampleId :

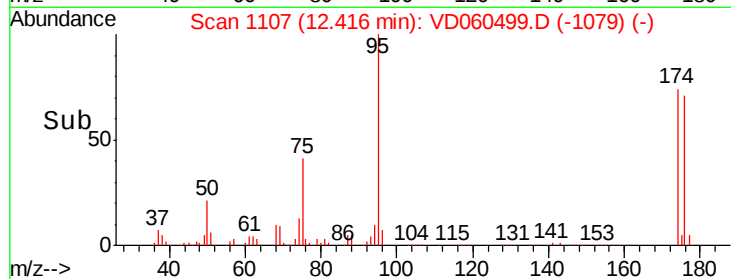
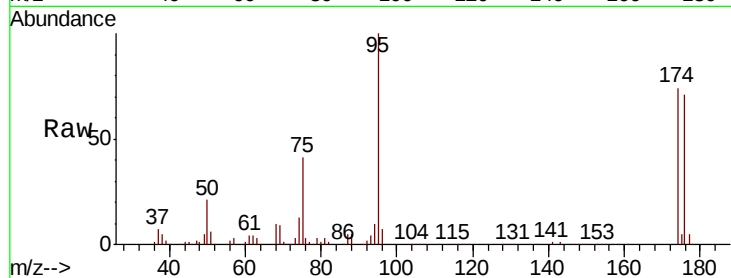
Tot Ion: 75 Resp: 361037

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 33.6 50.4#



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

