

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111318\  
 Data File : VD060357.D  
 Acq On : 13 Nov 2018 13:37  
 Operator : JC/SY  
 Sample : J5901-01  
 Misc : 4.13g/5ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 14 05:48:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.42  | 168  | 1488501  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.45  | 114  | 2086192  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.29 | 117  | 1473812  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.38 | 152  | 542859   | 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   | 499535   | 46.87 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.74% |          |
| 35) Dibromofluoromethane    | 6.34  | 113  | 701029   | 45.06 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.12% |          |
| 50) Toluene-d8              | 9.47  | 98   | 1751768  | 38.48 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 76.96% |          |
| 62) 4-Bromofluorobenzene    | 12.43 | 95   | 534822   | 32.42 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 64.84% |          |

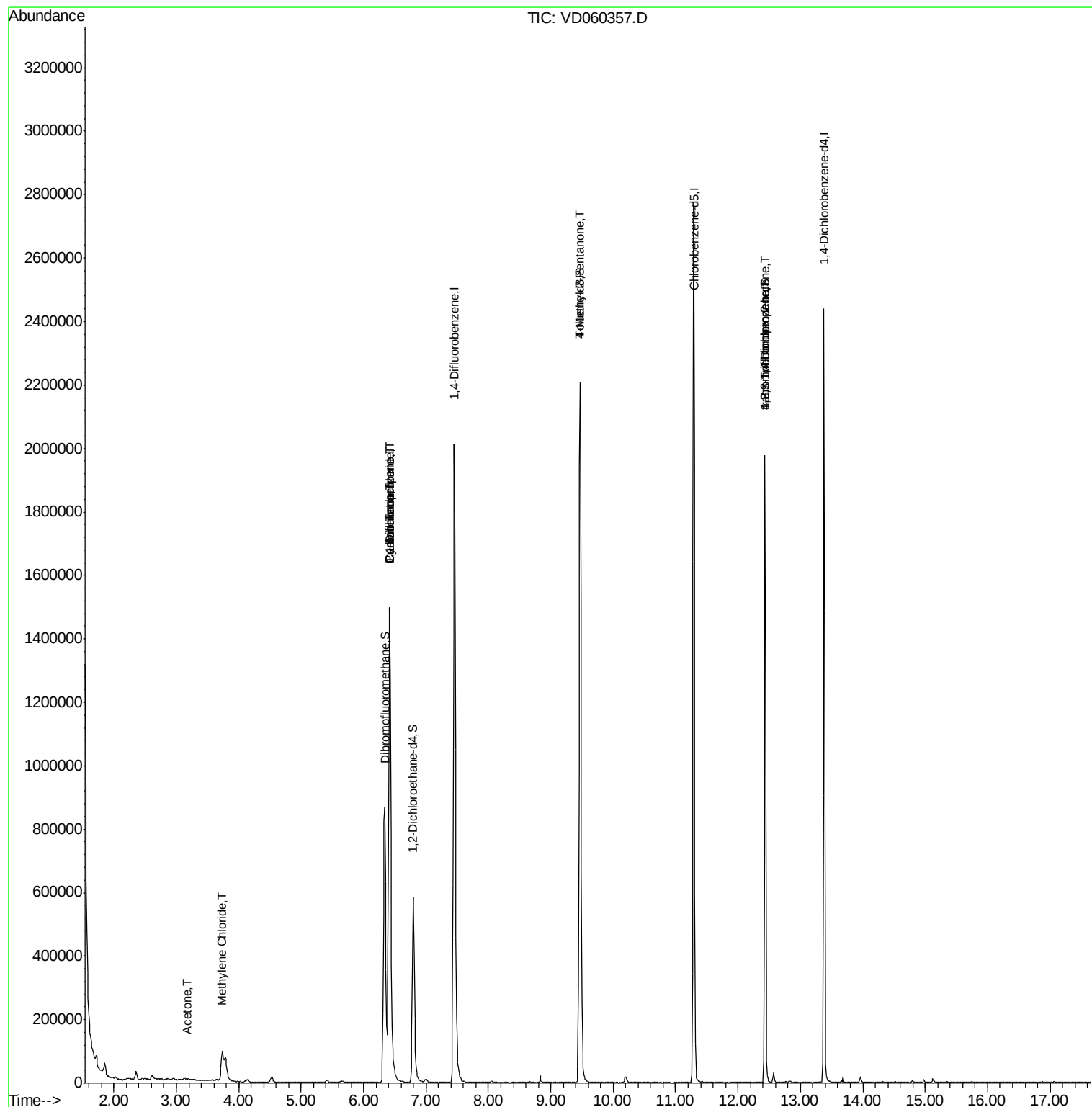
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.60  | 85   | 449      | Below Cal | #      | 41     |
| 16) Acetone                    | 3.17  | 43   | 8272     | 4.474     | ug/l # | 55     |
| 20) Methylene Chloride         | 3.73  | 84   | 58775    | 3.584     | ug/l   | 99     |
| 31) Cyclohexane                | 6.42  | 56   | 32457    | 1.275     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.42  | 75   | 107153   | 5.199     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 6.42  | 117  | 117310   | 6.136     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 9.47  | 43   | 10896    | 1.405     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.43 | 75   | 172837   | 26.615    | ug/l # | 44     |
| 81) trans-1,4-Dichloro-2-buten | 12.43 | 75   | 221200   | 119.646   | ug/l # | 15     |
| 89) n-Butylbenzene             | 13.65 | 91   | 1115     | Below Cal | #      | 85     |

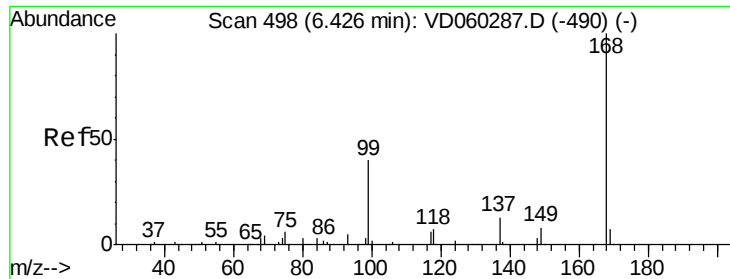
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111318\  
Data File : VD060357.D  
Acq On : 13 Nov 2018 13:37  
Operator : JC/SY  
Sample : J5901-01  
Misc : 4.13g/5ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Nov 14 05:48:56 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 06 13:56:04 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060357.D

Acq: 13 Nov 2018 13:37

Instrument :

MSVOA\_D

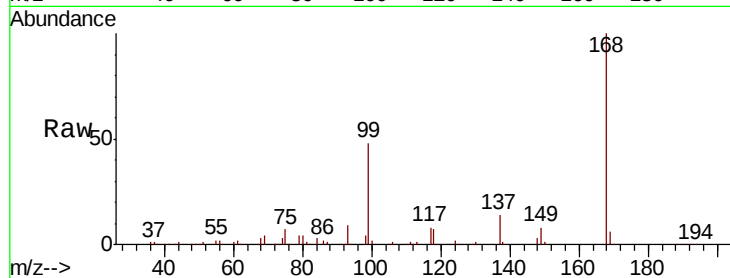
ClientSampleId :

Tot Ion:168 Resp: 1488501

Ion Ratio Lower Upper

168 100

99 48.5 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.42

500000

400000

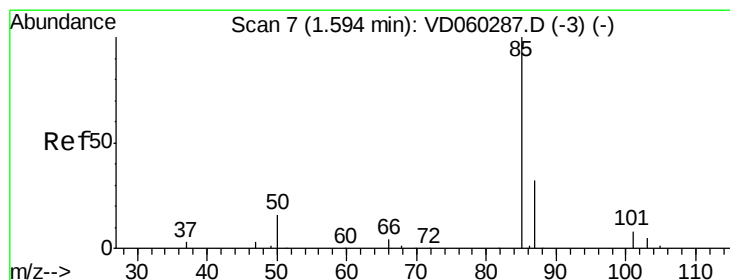
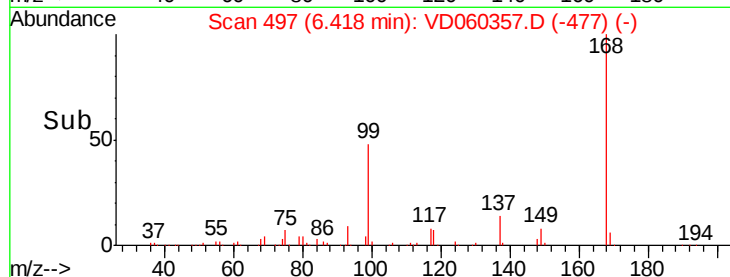
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.60 min Scan# 7

Delta R.T. 0.00 min

Lab File: VD060357.D

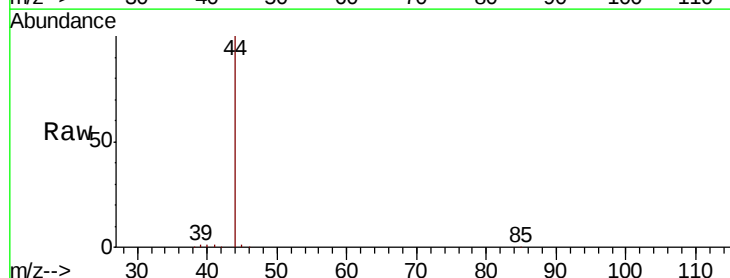
Acq: 13 Nov 2018 13:37

Tgt Ion: 85 Resp: 449

Ion Ratio Lower Upper

85 100

87 0.0 16.8 50.4#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

400

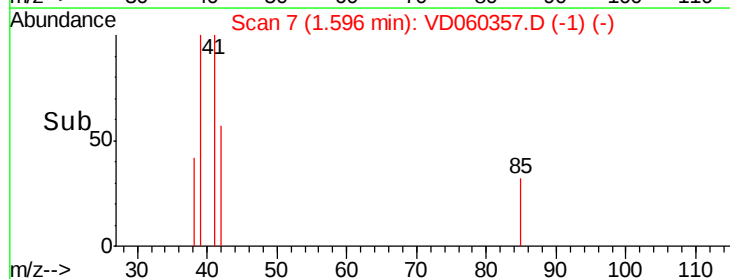
300

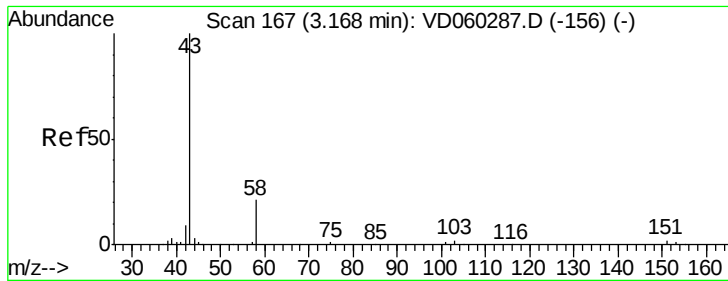
200

100

0

Time-->

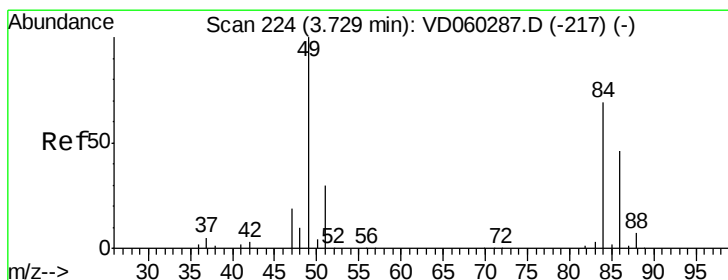
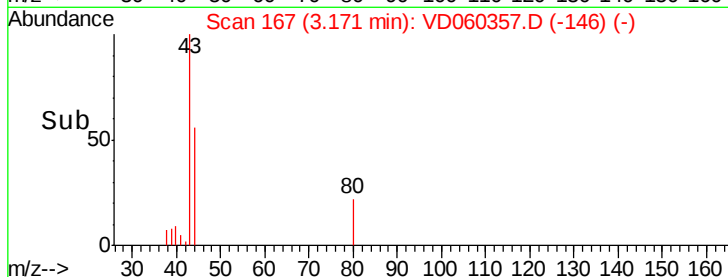
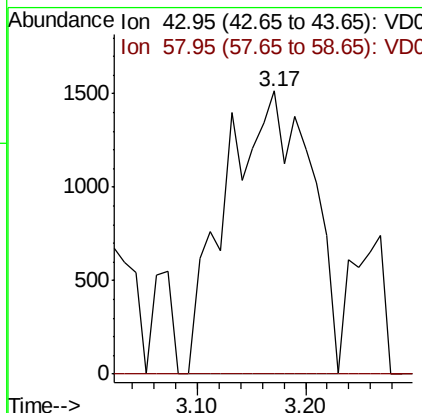
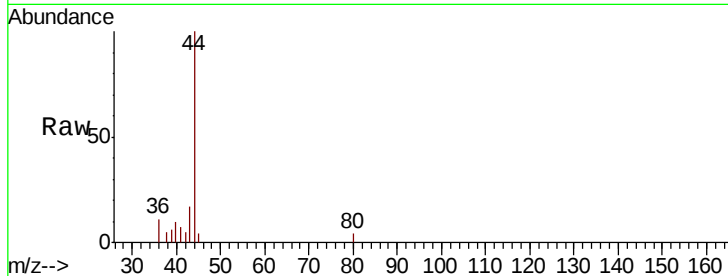




#16  
Acetone  
Concen: 4.474 ug/l  
RT: 3.17 min Scan# 167  
Delta R.T. 0.00 min  
Lab File: VD060357.D  
Acq: 13 Nov 2018 13:37

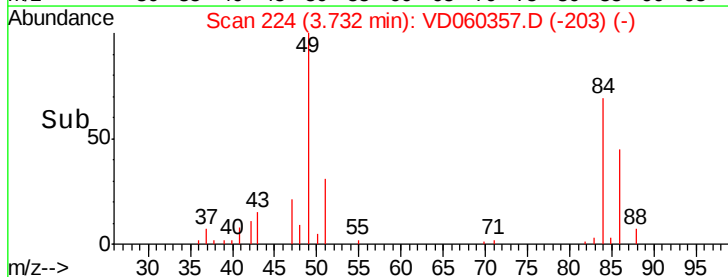
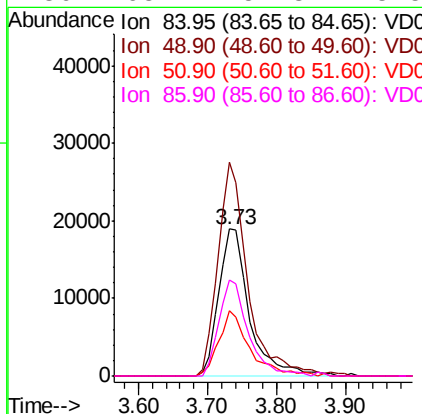
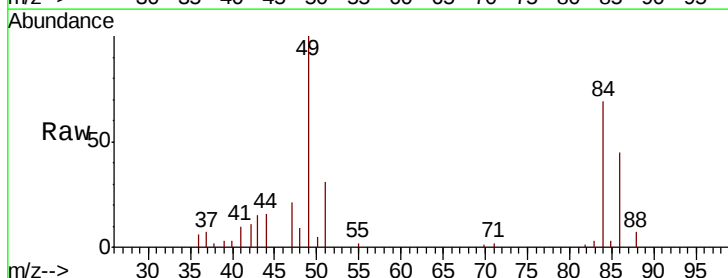
Instrument :  
MSVOA\_D  
ClientSampleId :

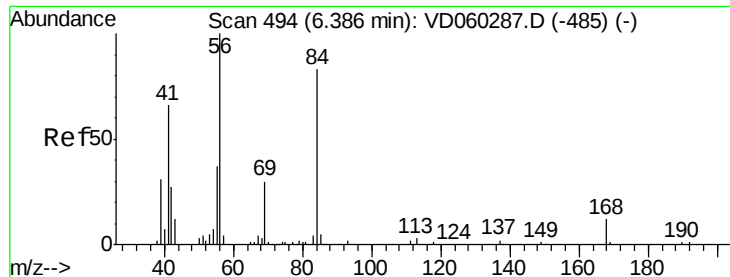
Tot Ion: 43 Resp: 8272  
Ion Ratio Lower Upper  
43 100  
58 0.0 16.9 25.3#



#20  
Methylene Chloride  
Concen: 3.584 ug/l  
RT: 3.73 min Scan# 224  
Delta R.T. 0.00 min  
Lab File: VD060357.D  
Acq: 13 Nov 2018 13:37

Tgt Ion: 84 Resp: 58775  
Ion Ratio Lower Upper  
84 100  
49 145.4 115.6 173.4  
51 44.8 35.6 53.4  
86 65.7 52.3 78.5

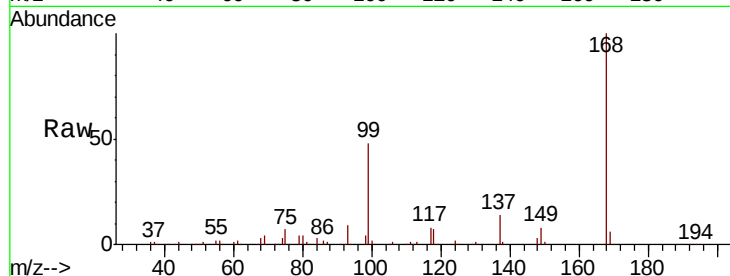




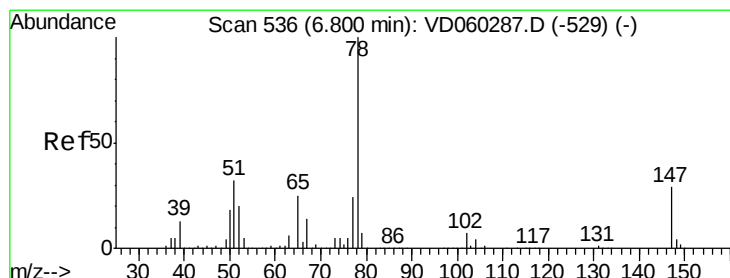
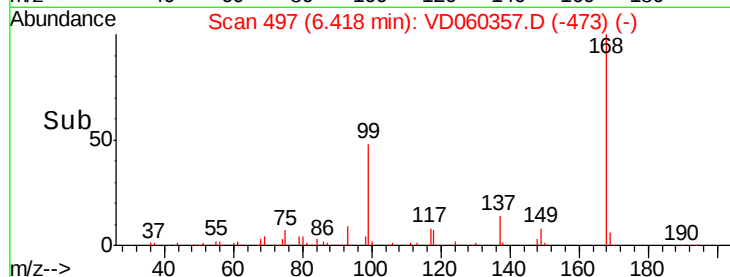
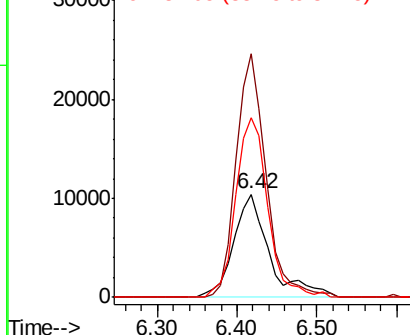
#31  
Cyclohexane  
Concen: 1.275 ug/l  
RT: 6.42 min Scan# 497  
Delta R.T. 0.03 min  
Lab File: VD060357.D  
Acq: 13 Nov 2018 13:37

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tot Ion | 56  | 69    | 84    | Resp | Lower | Upper |
|---------|-----|-------|-------|------|-------|-------|
| 32457   | 100 | 235.8 | 174.2 |      | 22.2  | 33.2# |
|         |     |       |       |      | 63.0  | 94.4# |

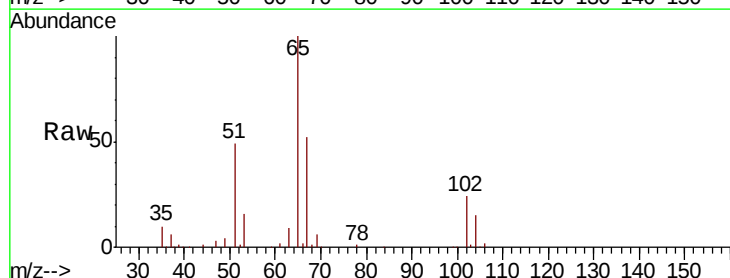


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

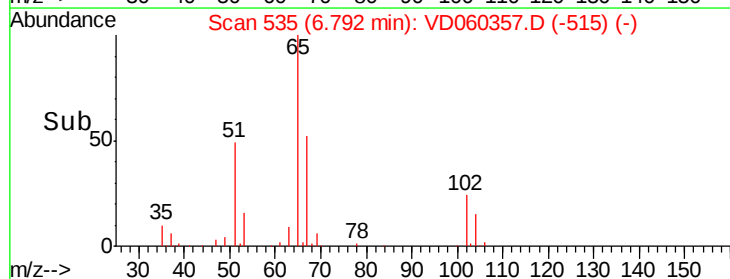
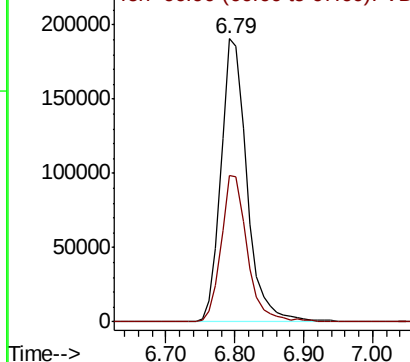


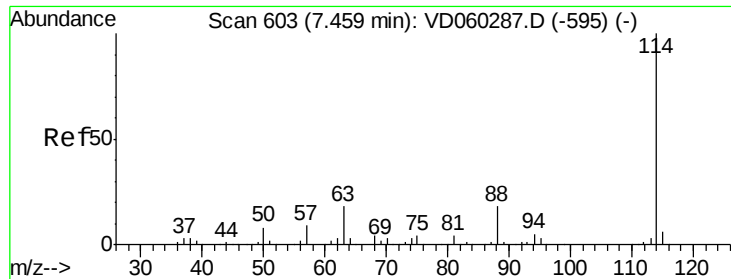
#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 6.79 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: VD060357.D  
Acq: 13 Nov 2018 13:37

| Tgt Ion | 65  | 67   | Resp | Lower | Upper |
|---------|-----|------|------|-------|-------|
| 499535  | 100 | 51.7 |      | 0.0   | 109.8 |



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

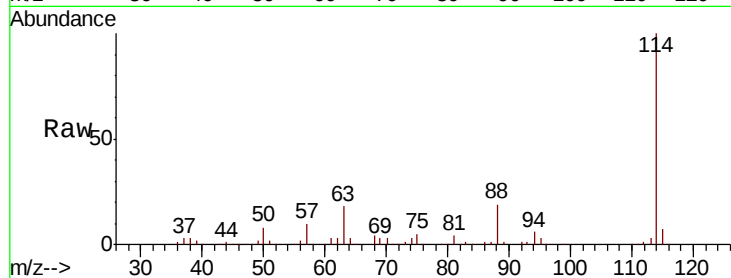




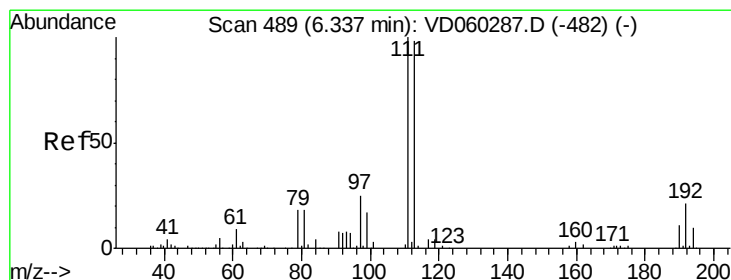
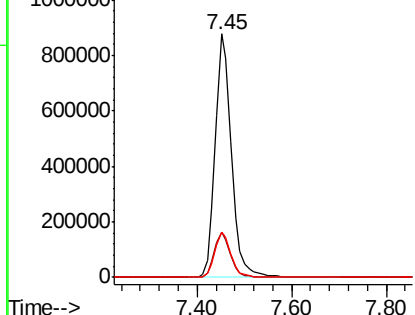
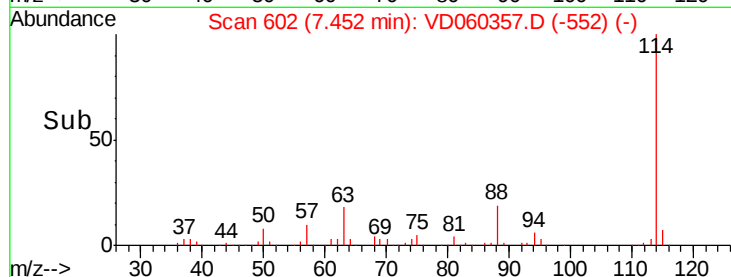
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.45 min Scan# 602  
 Delta R.T. -0.01 min  
 Lab File: VD060357.D  
 Acq: 13 Nov 2018 13:37

Instrument :  
 MSVOA\_D  
 ClientSampled :

Tot Ion:114 Resp: 2086192  
 Ion Ratio Lower Upper  
 114 100  
 63 18.5 0.0 34.0  
 88 18.7 0.0 35.4

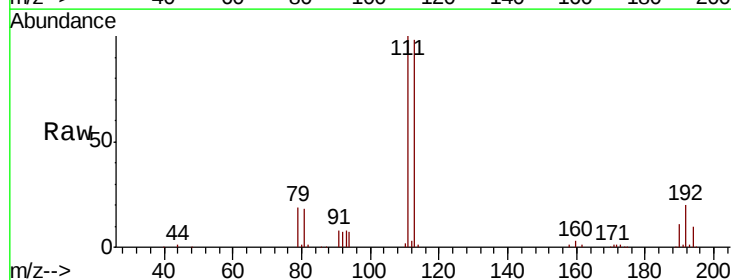


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

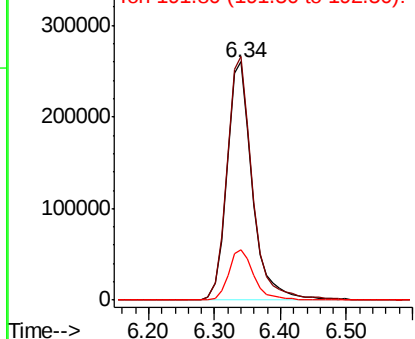
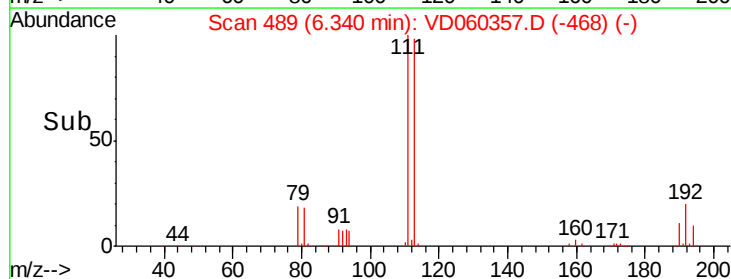


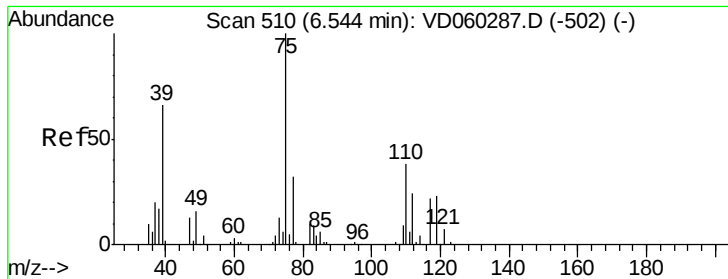
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.34 min Scan# 489  
 Delta R.T. 0.00 min  
 Lab File: VD060357.D  
 Acq: 13 Nov 2018 13:37

Tgt Ion:113 Resp: 701029  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 81.6 122.4  
 192 20.9 16.5 24.7



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: 5.199 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.13 min

Lab File: VD060357.D

Acq: 13 Nov 2018 13:37

Instrument :  
MSVOA\_D  
ClientSampleId :

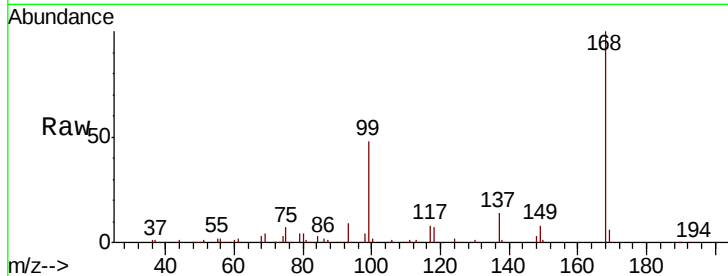
Tot Ion: 75 Resp: 107153

Ion Ratio Lower Upper

75 100

110 6.1 18.0 54.0#

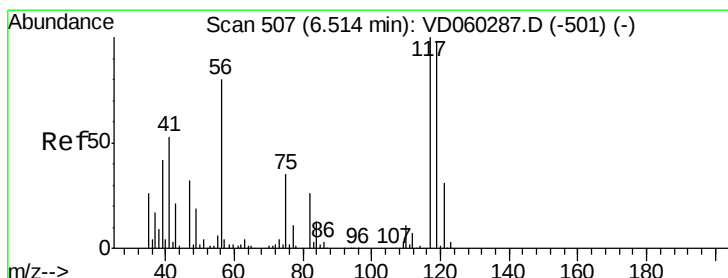
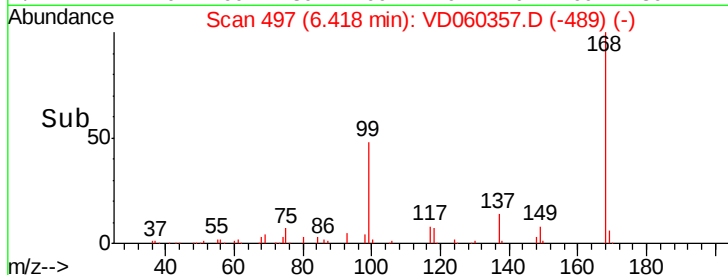
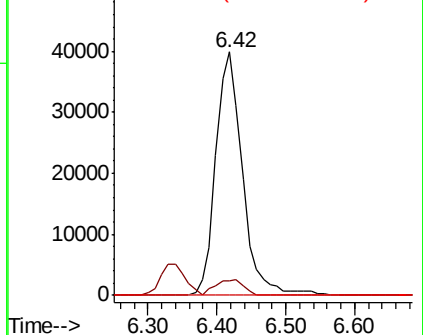
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 6.136 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.10 min

Lab File: VD060357.D

Acq: 13 Nov 2018 13:37

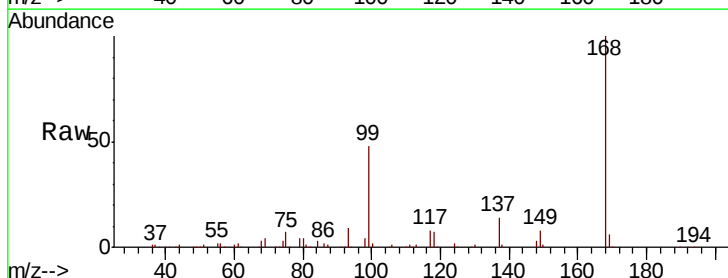
Tgt Ion: 117 Resp: 117310

Ion Ratio Lower Upper

117 100

119 4.1 76.6 115.0#

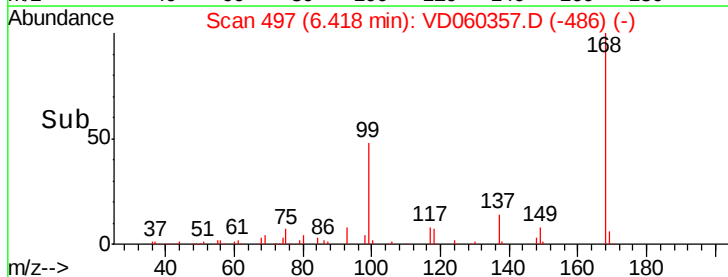
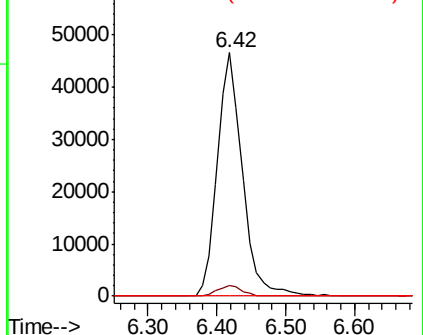
121 0.0 24.3 36.5#

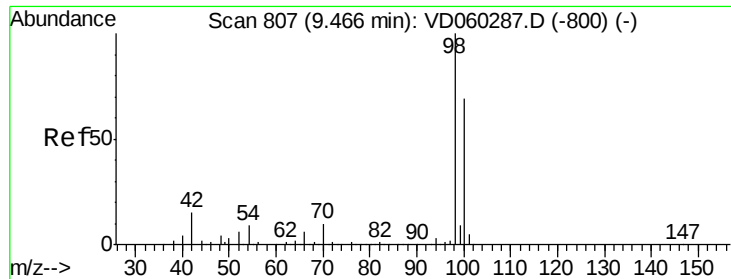


Abundance Ion 116.85 (116.55 to 117.55): V

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: 9.47 min Scan# 807

Delta R.T. 0.00 min

Lab File: VD060357.D

Acq: 13 Nov 2018 13:37

Instrument :

MSVOA\_D

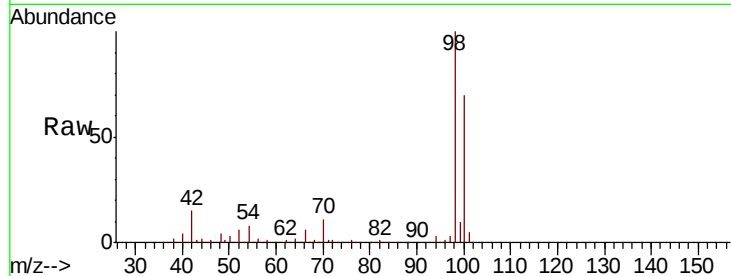
ClientSampleId :

Tot Ion: 98 Resp: 1751768

Ion Ratio Lower Upper

98 100

100 69.7 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

9.47

800000

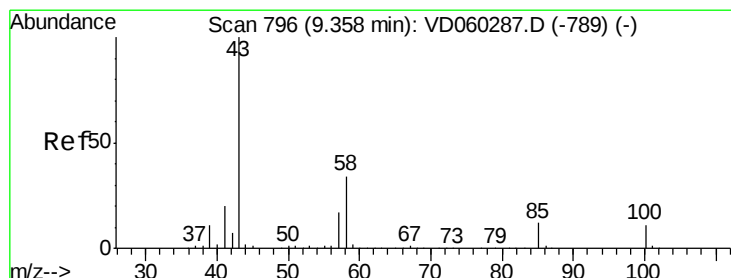
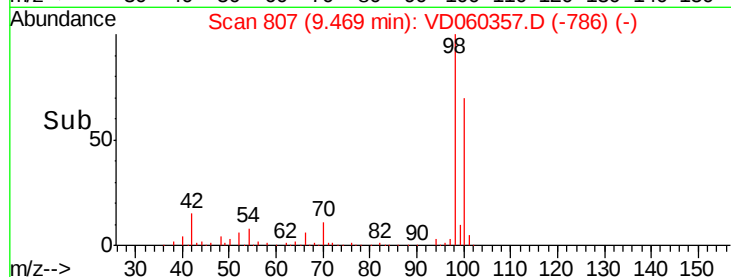
600000

400000

200000

0

Time--> 9.30 9.40 9.50 9.60



#51

4-Methyl-2-Pentanone

Concen: 1.405 ug/l

RT: 9.47 min Scan# 807

Delta R.T. 0.11 min

Lab File: VD060357.D

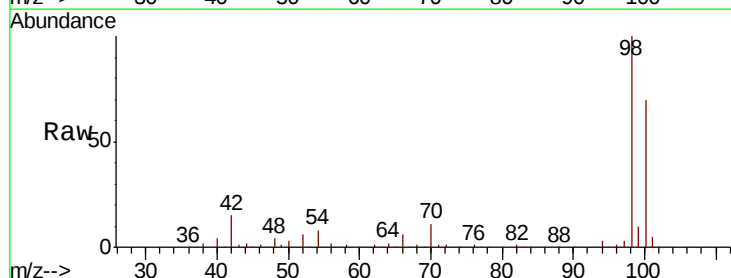
Acq: 13 Nov 2018 13:37

Tgt Ion: 43 Resp: 10896

Ion Ratio Lower Upper

43 100

58 124.2 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.47

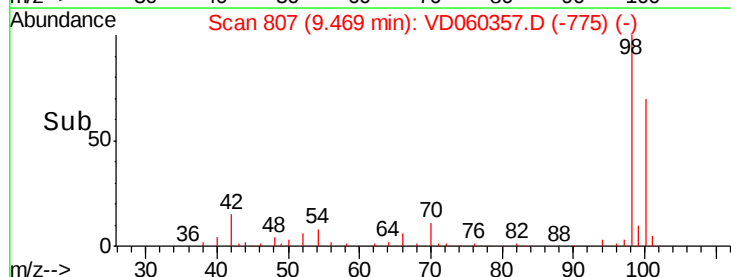
6000

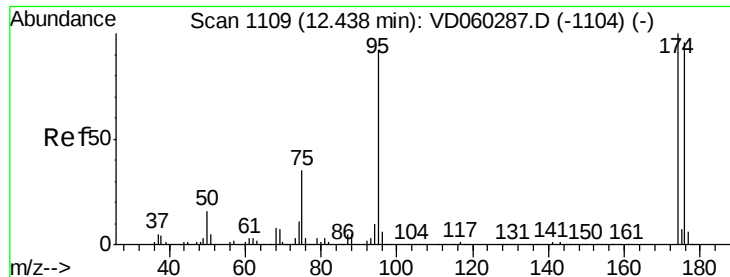
4000

2000

0

Time--> 9.40 9.45 9.50

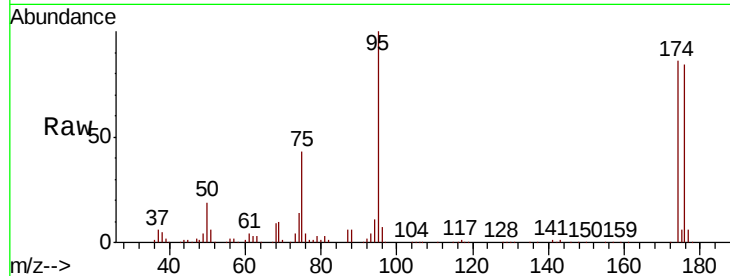




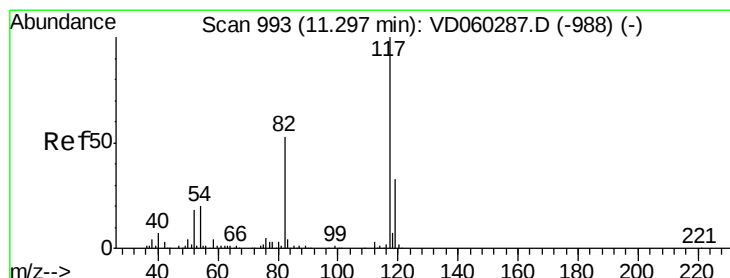
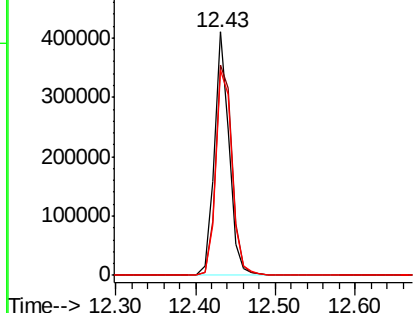
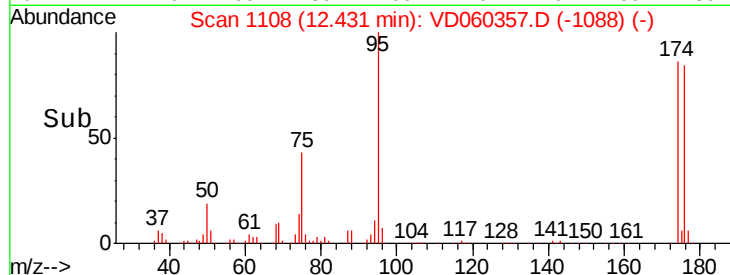
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.43 min Scan# 1108  
Delta R.T. -0.01 min  
Lab File: VD060357.D  
Acq: 13 Nov 2018 13:37

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 95 Resp: 534822  
Ion Ratio Lower Upper  
95 100  
174 86.3 0.0 160.8  
176 84.3 0.0 154.6

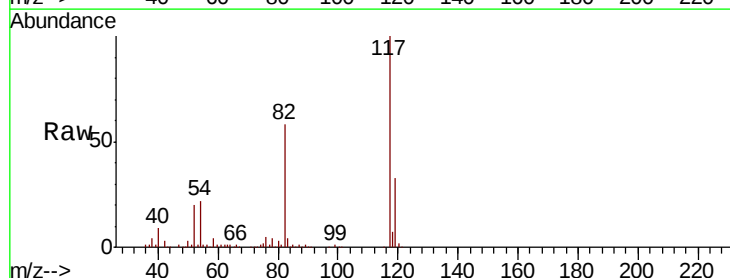


Abundance Ion 95.00 (94.70 to 95.70): V  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

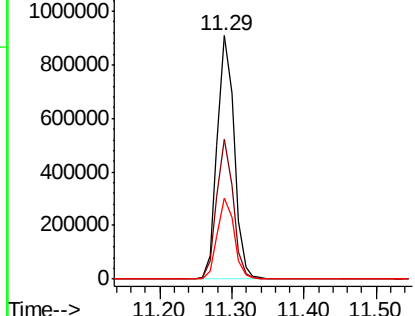
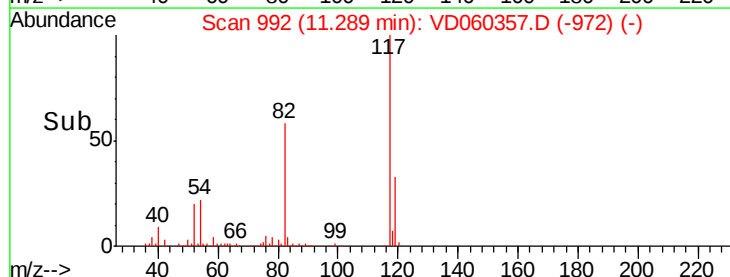


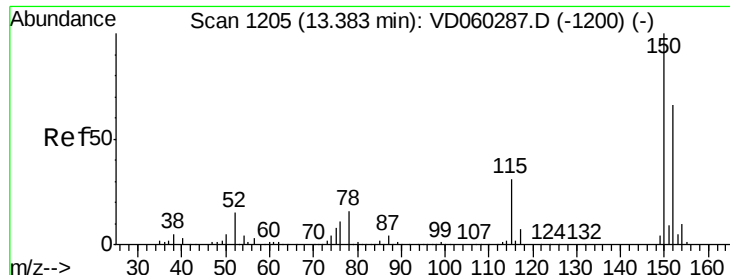
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.29 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VD060357.D  
Acq: 13 Nov 2018 13:37

Tgt Ion: 117 Resp: 1473812  
Ion Ratio Lower Upper  
117 100  
82 57.6 43.7 65.5  
119 33.3 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



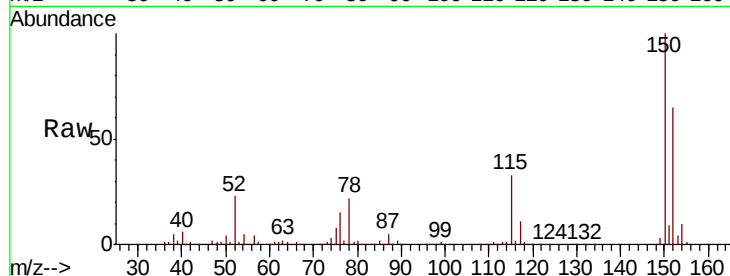


#72

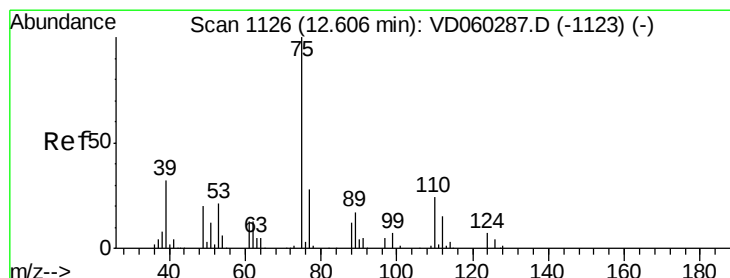
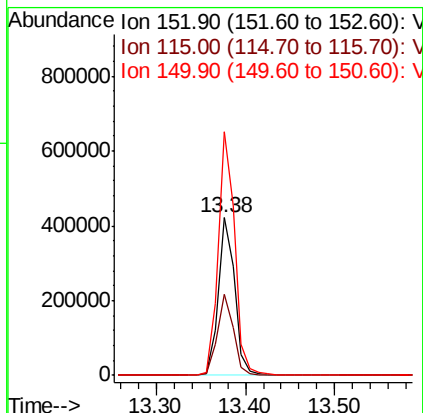
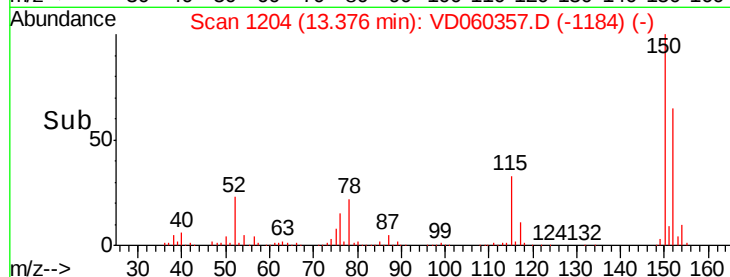
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.38 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: VD060357.D  
Acq: 13 Nov 2018 13:37

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:152 Resp: 542859  
Ion Ratio Lower Upper  
152 100  
115 51.2 24.1 72.3  
150 154.8 0.0 310.6



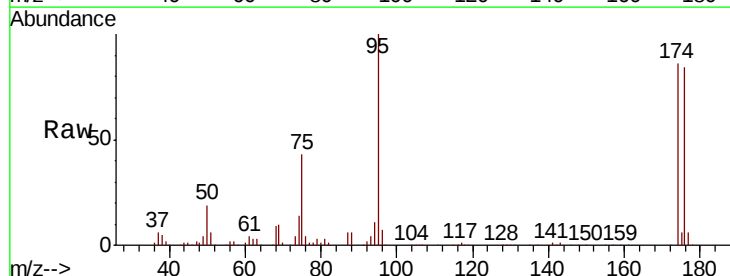
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V



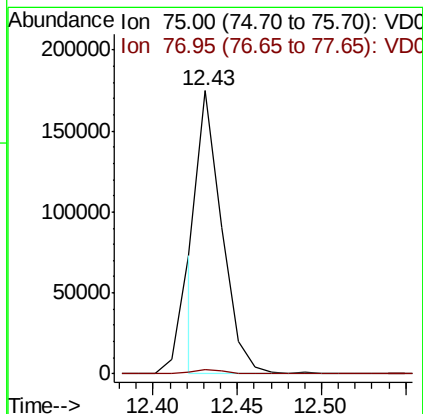
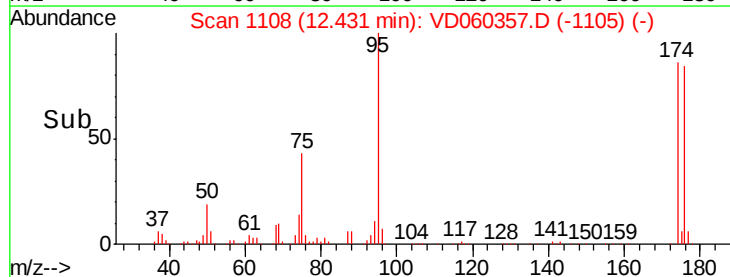
#76

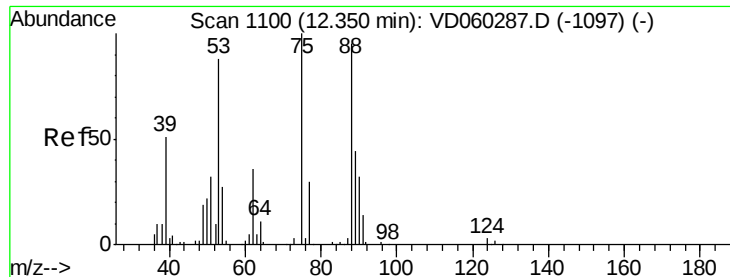
1,2,3-Trichloropropane  
Concen: 26.615 ug/l  
RT: 12.43 min Scan# 1108  
Delta R.T. -0.17 min  
Lab File: VD060357.D  
Acq: 13 Nov 2018 13:37

Tgt Ion: 75 Resp: 172837  
Ion Ratio Lower Upper  
75 100  
77 1.4 16.4 49.1#



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





#81

trans-1,4-Dichloro-2-butene

Concen: 119.646 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.08 min

Lab File: VD060357.D

Acq: 13 Nov 2018 13:37

Instrument :

MSVOA\_D

ClientSampleId :

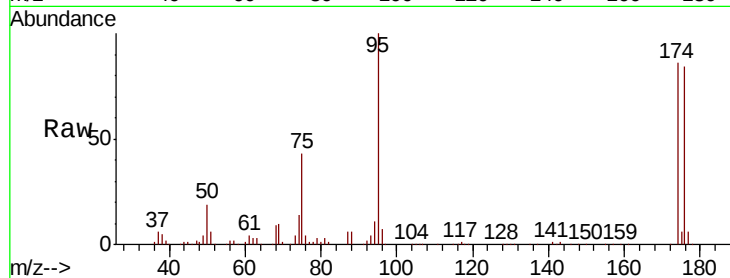
Tot Ion: 75 Resp: 221200

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

89 0.0 34.1 51.1#



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

