

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\  
 Data File : VD061523.D  
 Acq On : 2 Apr 2019 19:20  
 Operator : VA/AP  
 Sample : K2186-11RE  
 Misc : 5.50u/5ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 03 01:54:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 28 09:22:37 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 238795   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 428040   | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 335033   | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 118041   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 152825   | 74.92 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 149.84% |          |
| 35) Dibromofluoromethane    | 6.91  | 113  | 187174   | 57.22 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 114.44% |          |
| 50) Toluene-d8              | 10.40 | 98   | 280855   | 35.80 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 71.60%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 131340   | 43.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.32%  |          |

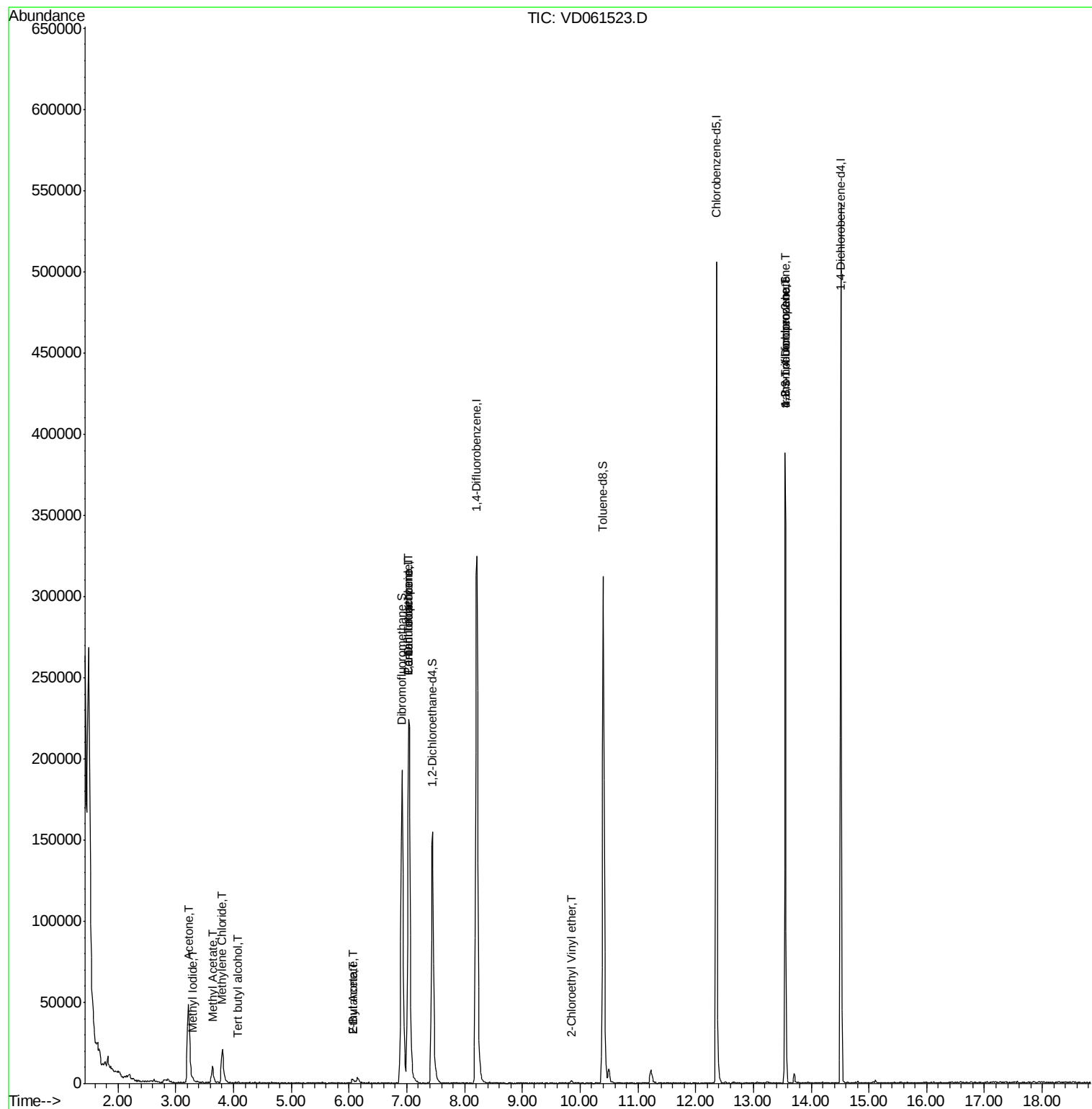
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) Methyl Iodide              | 3.30  | 142  | 330      | 3.534   | ug/l # | 38     |
| 11) Tert butyl alcohol         | 4.07  | 59   | 1458     | 11.477  | ug/l # | 76     |
| 16) Acetone                    | 3.21  | 43   | 102980   | 196.382 | ug/l   | 98     |
| 18) Methyl Acetate             | 3.64  | 43   | 19914    | 18.062  | ug/l   | 96     |
| 20) Methylene Chloride         | 3.80  | 84   | 17880    | 4.333   | ug/l   | 98     |
| 25) 2-Butanone                 | 6.07  | 43   | 6602     | 10.009  | ug/l   | 94     |
| 36) 1,1-Dichloropropene        | 7.03  | 75   | 17043    | 4.562   | ug/l # | 46     |
| 37) Ethyl Acetate              | 6.07  | 43   | 6602     | 4.132   | ug/l # | 65     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 22989    | 5.355   | ug/l # | 10     |
| 58) 2-Chloroethyl Vinyl ether  | 9.86  | 63   | 1252     | 1.196   | ug/l # | 47     |
| 76) 1,2,3-Trichloropropane     | 13.55 | 75   | 40113    | 23.525  | ug/l # | 42     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 49391    | 95.002  | ug/l # | 18     |

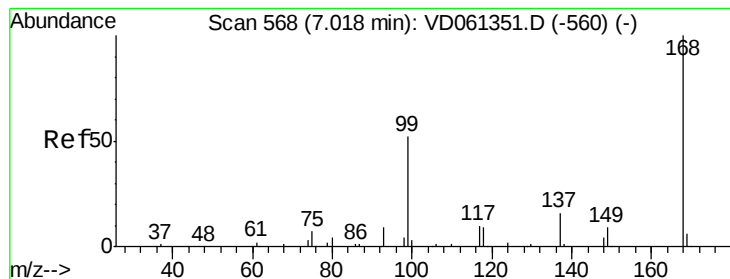
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040219\  
Data File : VD061523.D  
Acq On : 2 Apr 2019 19:20  
Operator : VA/AP  
Sample : K2186-11RE  
Misc : 5.50g/5ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Apr 03 01:54:45 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 28 09:22:37 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD061523.D

Acq: 2 Apr 2019 19:20

Instrument :

MSVOA\_D

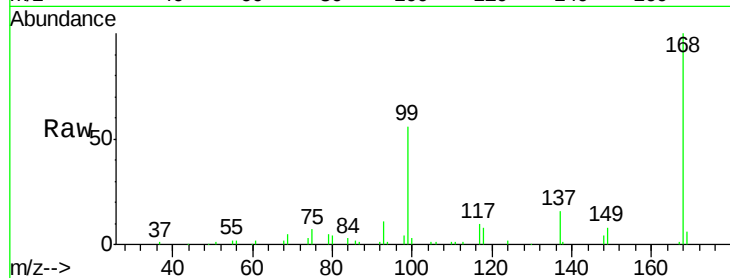
ClientSampleId :

Tot Ion:168 Resp: 238795

Ion Ratio Lower Upper

168 100

99 55.8 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.04

80000

60000

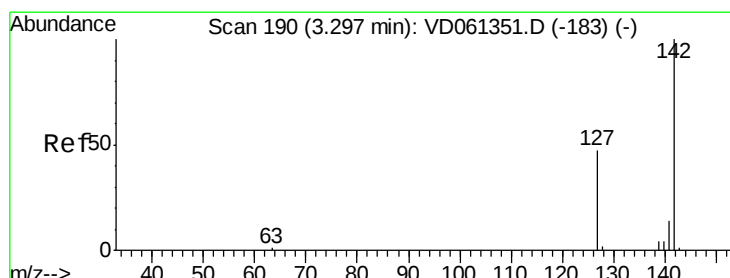
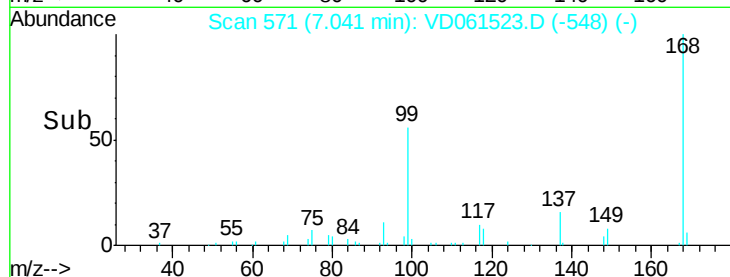
40000

20000

0

Time-->

6.90 7.00 7.10 7.20



#10

Methyl Iodide

Concen: 3.534 ug/l

RT: 3.30 min Scan# 191

Delta R.T. 0.00 min

Lab File: VD061523.D

Acq: 2 Apr 2019 19:20

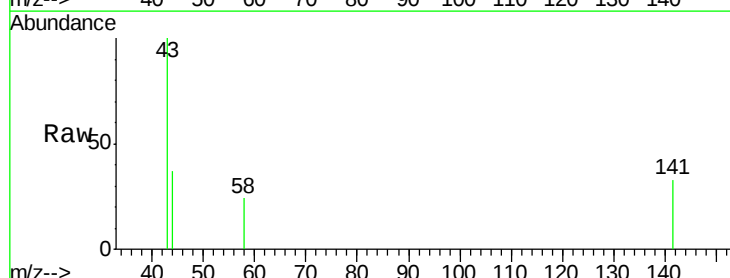
Tgt Ion:142 Resp: 330

Ion Ratio Lower Upper

142 100

127 0.0 37.7 56.5#

141 0.0 11.5 17.3#



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

3.30

600

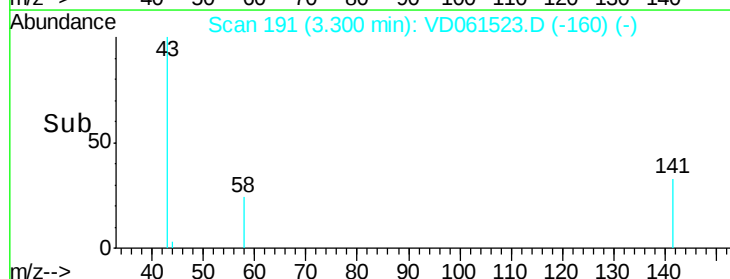
400

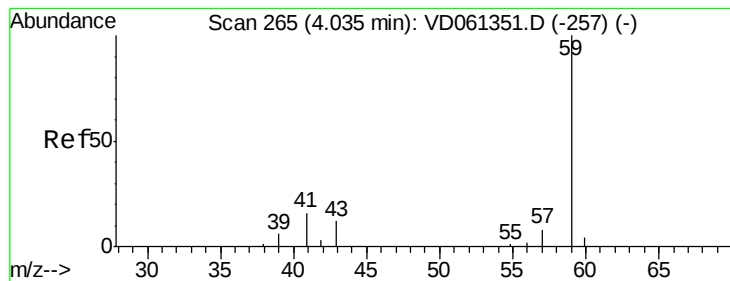
200

0

Time-->

3.28 3.30 3.32



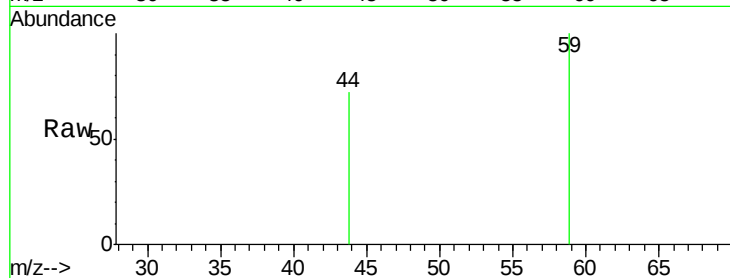


#11

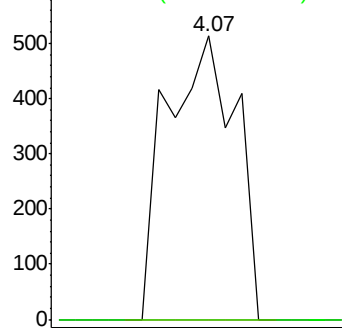
Tert butyl alcohol  
 Concen: 11.477 ug/l  
 RT: 4.07 min Scan# 269  
 Delta R.T. 0.03 min  
 Lab File: VD061523.D  
 Acq: 2 Apr 2019 19:20

Instrument :  
 MSVOA\_D  
 ClientSampled :

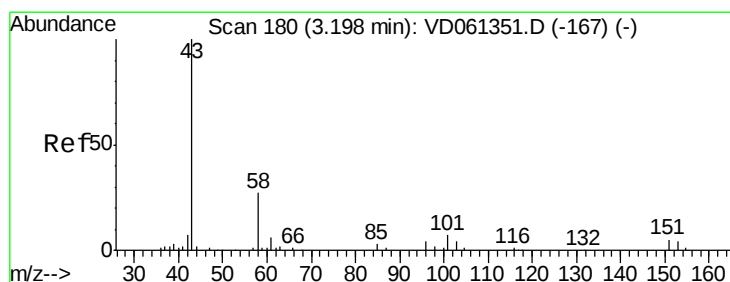
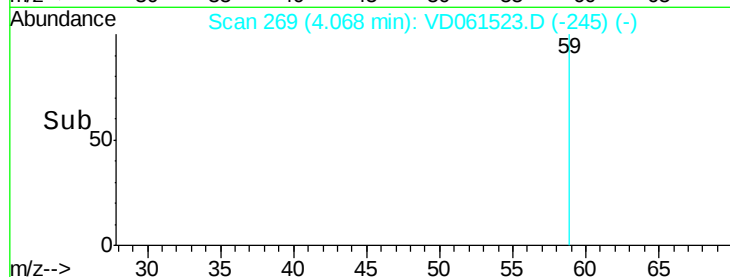
Tot Ion: 59 Resp: 1458  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC  
 Ion 56.95 (56.65 to 57.65): VDC



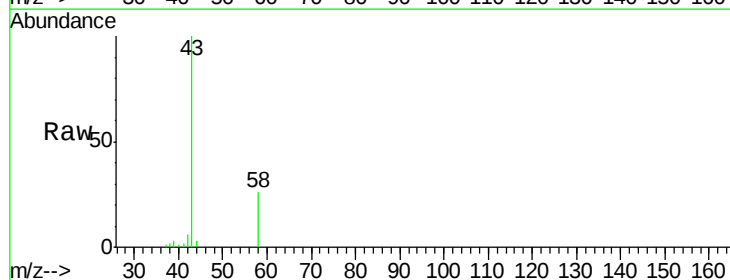
Time-->



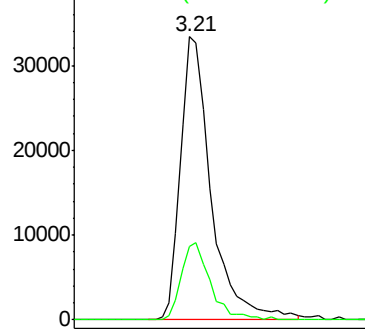
#16

Acetone  
 Concen: 196.382 ug/l  
 RT: 3.21 min Scan# 182  
 Delta R.T. 0.01 min  
 Lab File: VD061523.D  
 Acq: 2 Apr 2019 19:20

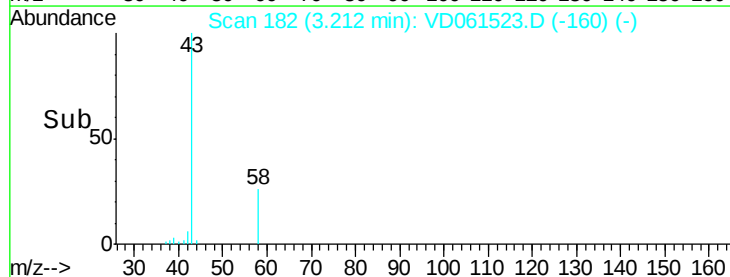
Tgt Ion: 43 Resp: 102980  
 Ion Ratio Lower Upper  
 43 100  
 58 25.8 21.5 32.3

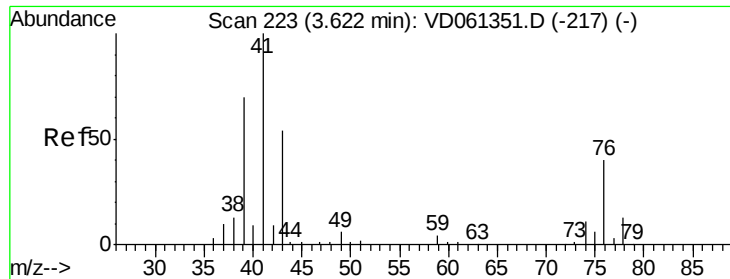


Abundance Ion 42.95 (42.65 to 43.65): VDC  
 Ion 57.95 (57.65 to 58.65): VDC



Time-->

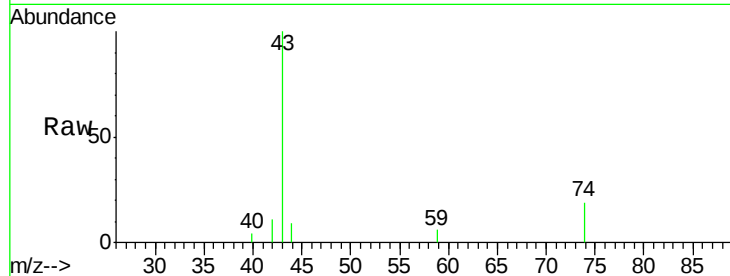




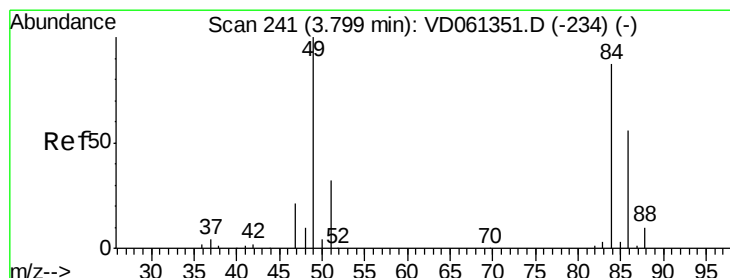
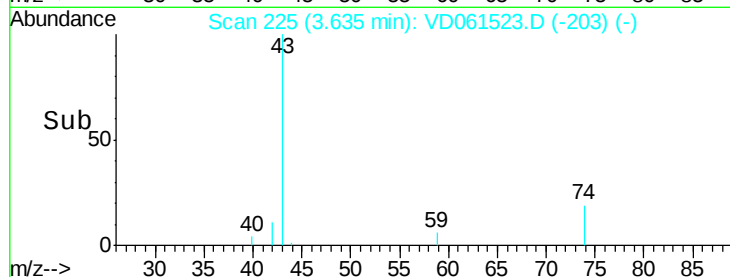
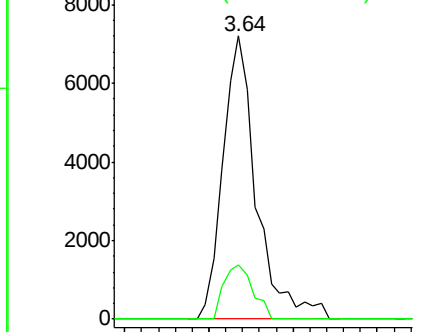
#18  
Methyl Acetate  
Concen: 18.062 ug/l  
RT: 3.64 min Scan# 225  
Delta R.T. 0.01 min  
Lab File: VD061523.D  
Acq: 2 Apr 2019 19:20

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 43 Resp: 19914  
Ion Ratio Lower Upper  
43 100  
74 19.0 16.7 25.1

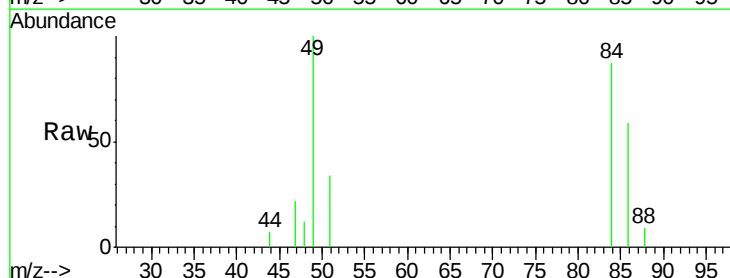


Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 74.00 (73.70 to 74.70): VDC

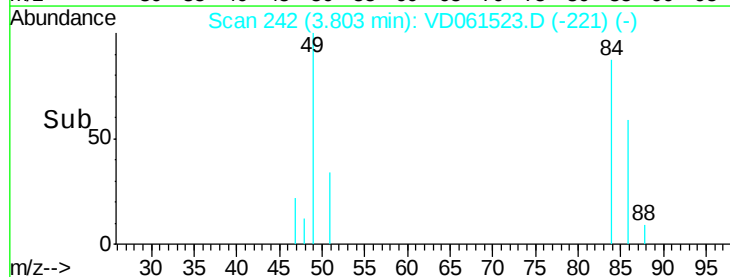
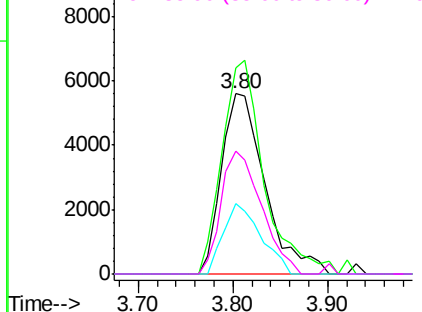


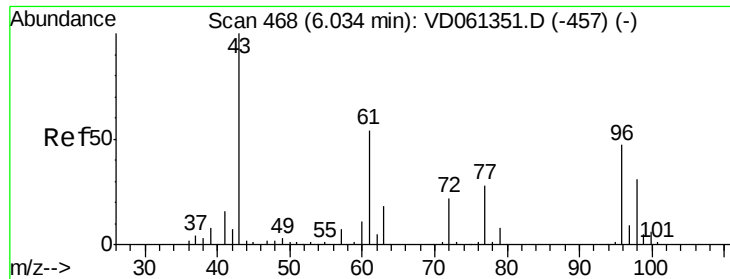
#20  
Methylene Chloride  
Concen: 4.333 ug/l  
RT: 3.80 min Scan# 242  
Delta R.T. 0.00 min  
Lab File: VD061523.D  
Acq: 2 Apr 2019 19:20

Tgt Ion: 84 Resp: 17880  
Ion Ratio Lower Upper  
84 100  
49 114.9 91.8 137.8  
51 39.0 29.8 44.8  
86 68.3 51.8 77.6



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





#25

2-Butanone

Concen: 10.009 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.03 min

Lab File: VD061523.D

Acq: 2 Apr 2019 19:20

Instrument :

MSVOA\_D

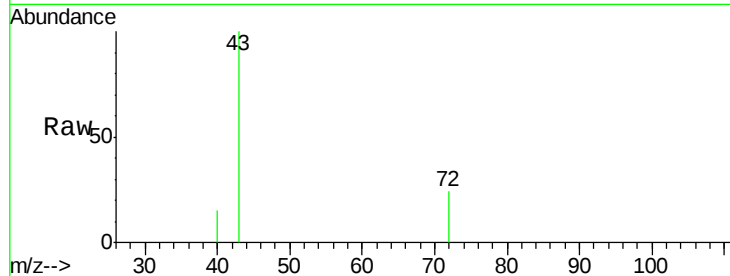
ClientSampleId :

Tot Ion: 43 Resp: 6602

Ion Ratio Lower Upper

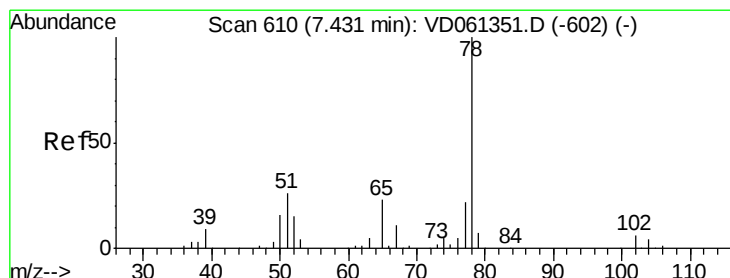
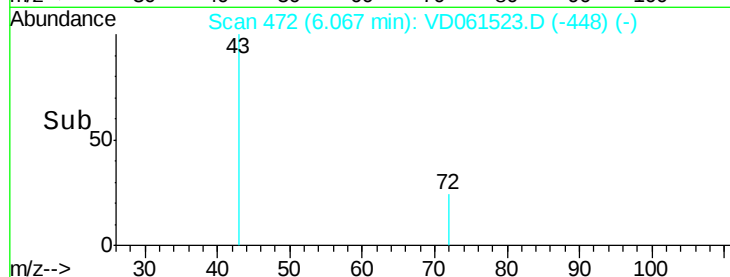
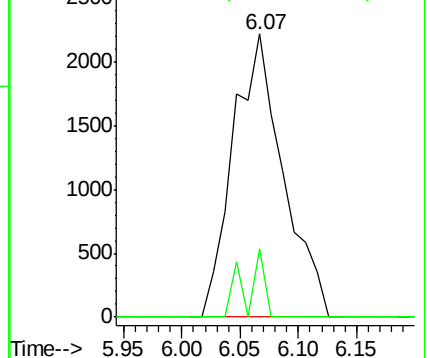
43 100

72 24.3 17.2 25.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD061523.D

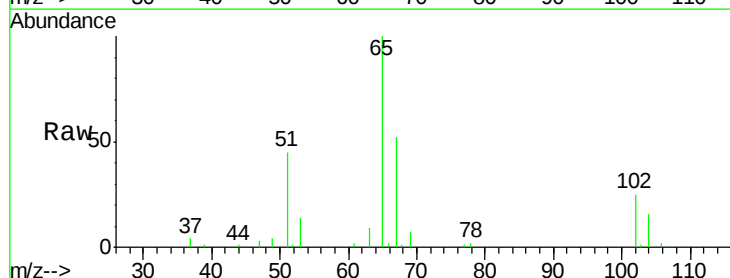
Acq: 2 Apr 2019 19:20

Tgt Ion: 65 Resp: 152825

Ion Ratio Lower Upper

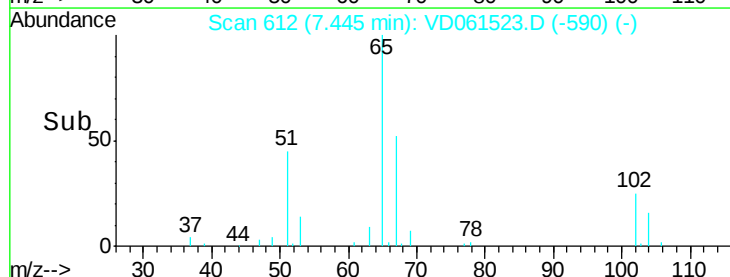
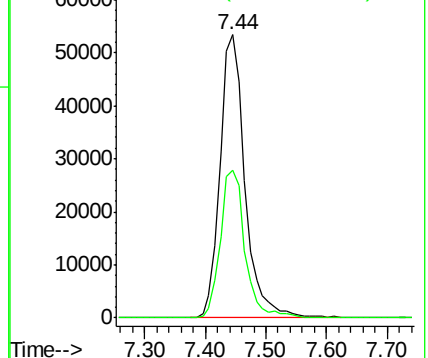
65 100

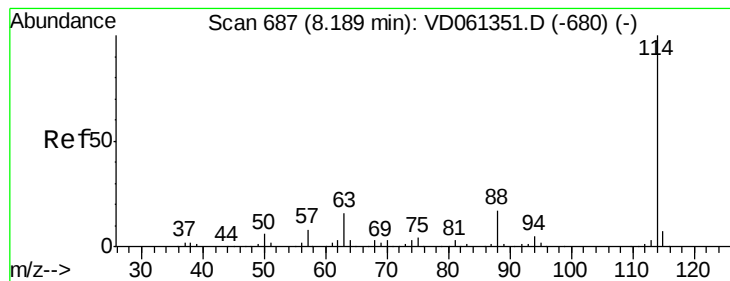
67 52.3 0.0 99.8



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: 8.21 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD061523.D

Acq: 2 Apr 2019 19:20

Instrument :

MSVOA\_D

ClientSampleId :

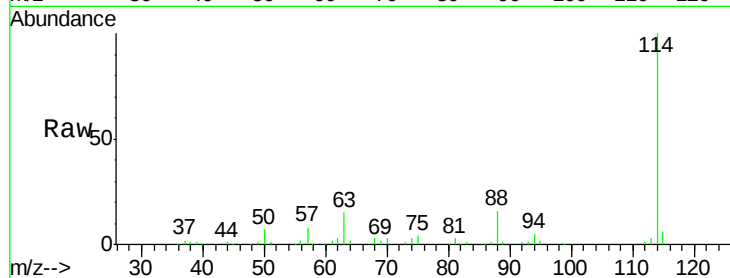
Tot Ion:114 Resp: 428040

Ion Ratio Lower Upper

114 100

63 15.3 0.0 31.6

88 16.2 0.0 33.4



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

8.21

200000

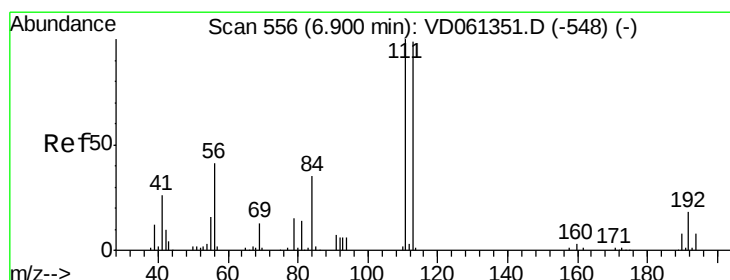
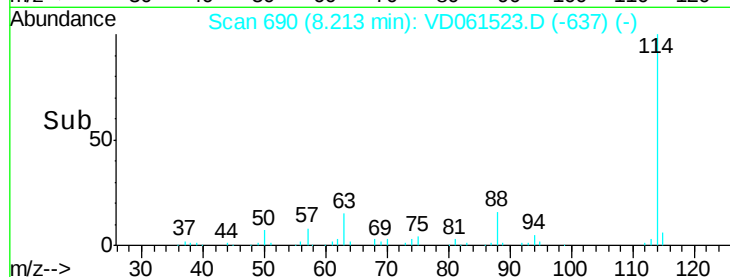
150000

100000

50000

0

Time--> 8.00 8.20 8.40



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.91 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD061523.D

Acq: 2 Apr 2019 19:20

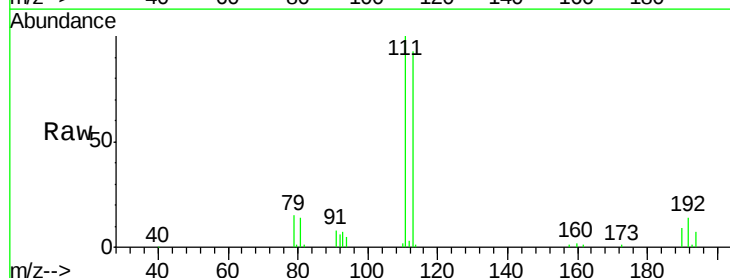
Tgt Ion:113 Resp: 187174

Ion Ratio Lower Upper

113 100

111 107.2 81.0 121.6

192 15.5 14.4 21.6



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

6.91

80000

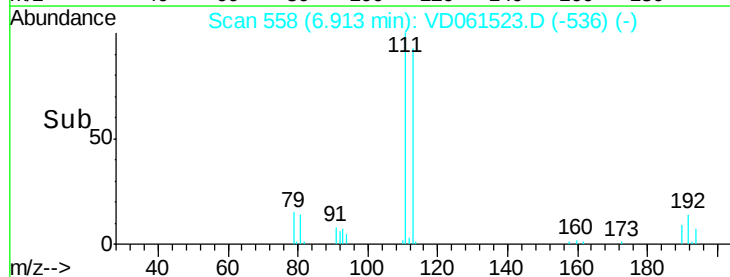
60000

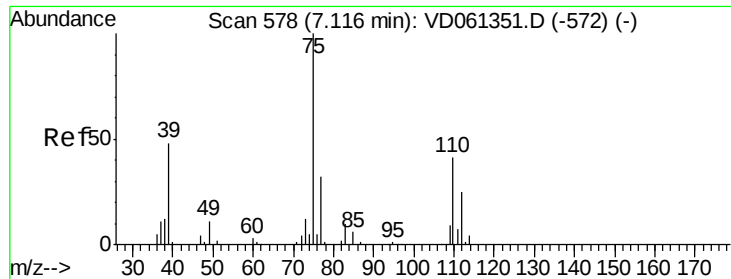
40000

20000

0

Time--> 6.80 6.90 7.00 7.10

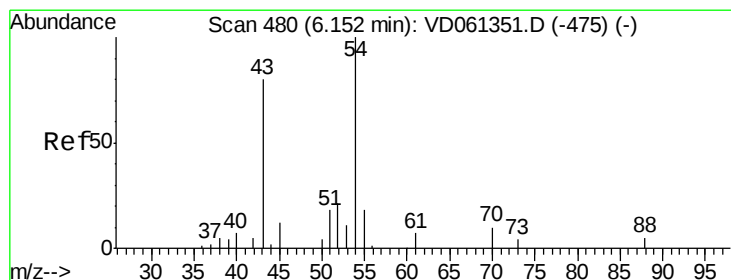
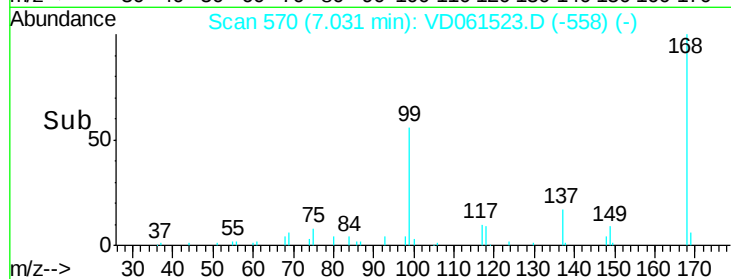
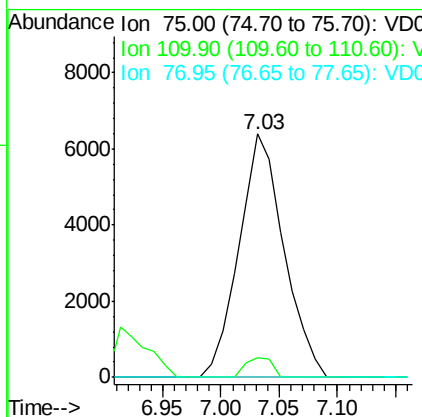
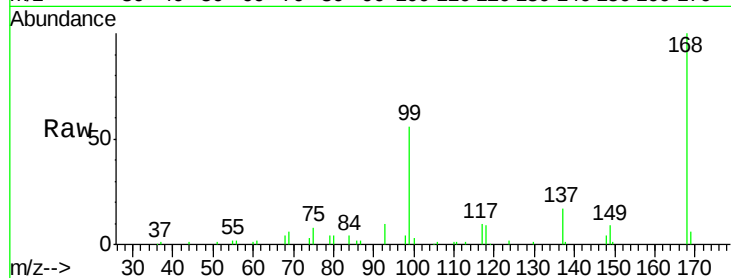




#36  
 1,1-Dichloropropene  
 Concen: 4.562 ug/l  
 RT: 7.03 min Scan# 570  
 Delta R.T. -0.08 min  
 Lab File: VD061523.D  
 Acq: 2 Apr 2019 19:20

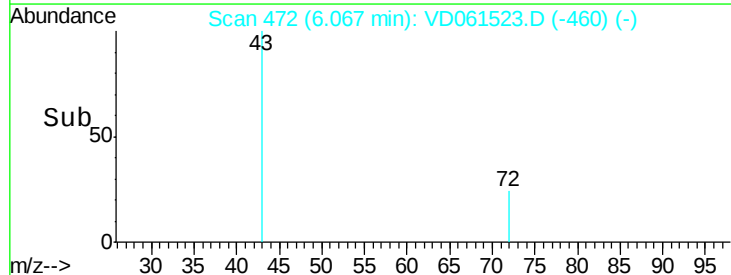
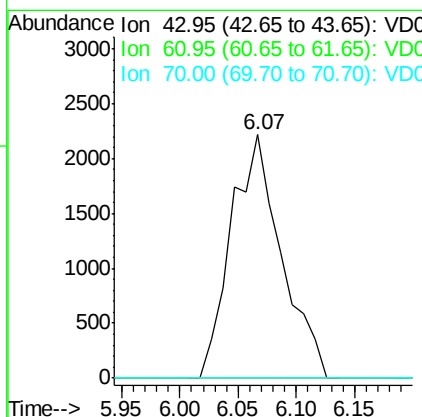
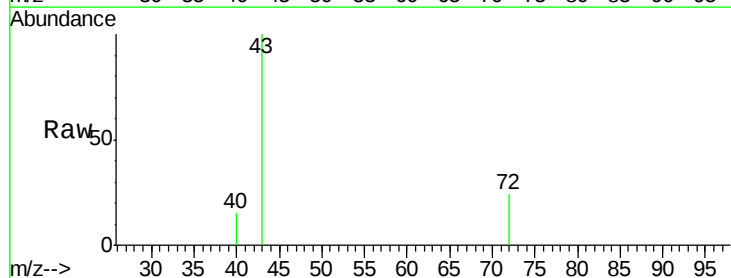
Instrument :  
 MSVOA\_D  
 ClientSampleId :

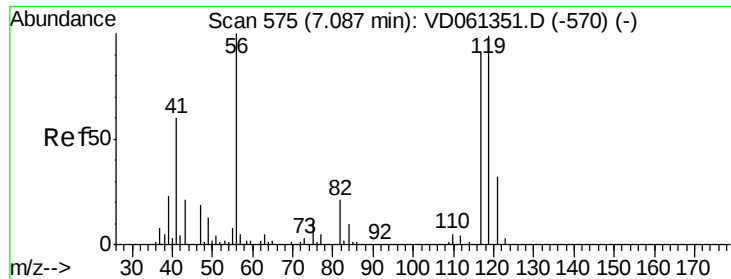
Tot Ion: 75 Resp: 17043  
 Ion Ratio Lower Upper  
 75 100  
 110 8.1 20.4 61.3#  
 77 0.0 24.9 37.3#



#37  
 Ethyl Acetate  
 Concen: 4.132 ug/l  
 RT: 6.07 min Scan# 472  
 Delta R.T. -0.08 min  
 Lab File: VD061523.D  
 Acq: 2 Apr 2019 19:20

Tgt Ion: 43 Resp: 6602  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 13.8 20.8#  
 70 0.0 7.8 11.8#

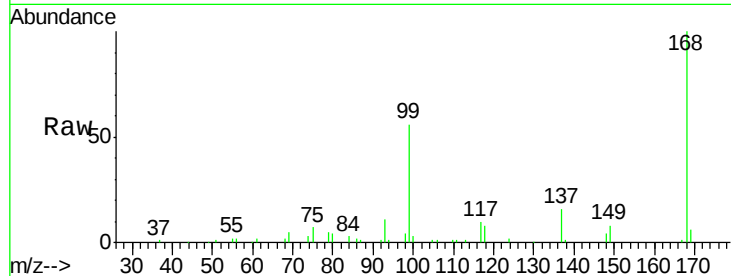




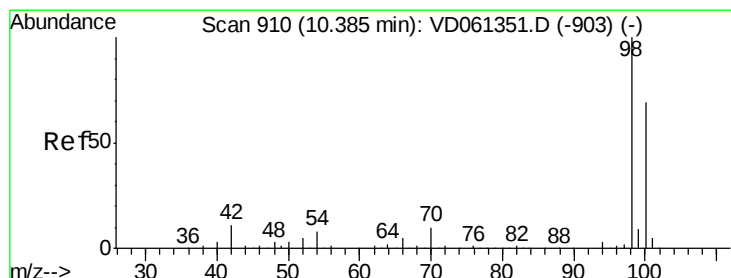
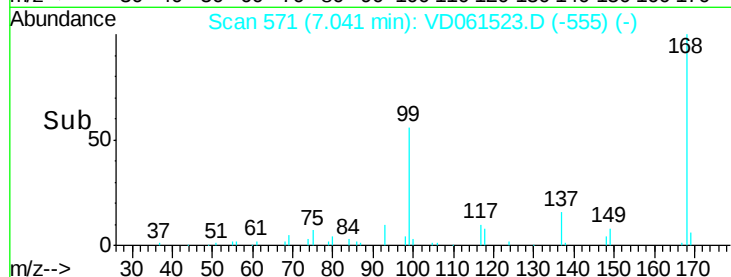
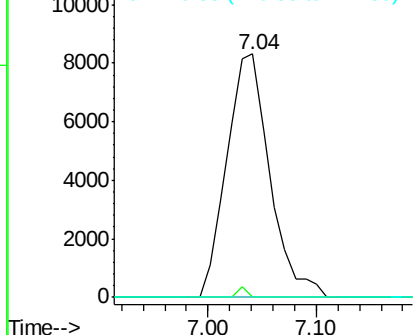
#38  
Carbon Tetrachloride  
Concen: 5.355 ug/l  
RT: 7.04 min Scan# 571  
Delta R.T. -0.05 min  
Lab File: VD061523.D  
Acq: 2 Apr 2019 19:20

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 22989  
Ion Ratio Lower Upper  
117 100  
119 0.0 80.1 120.1#  
121 0.0 25.6 38.4#

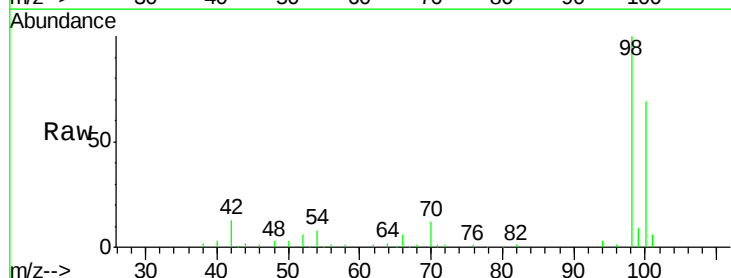


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

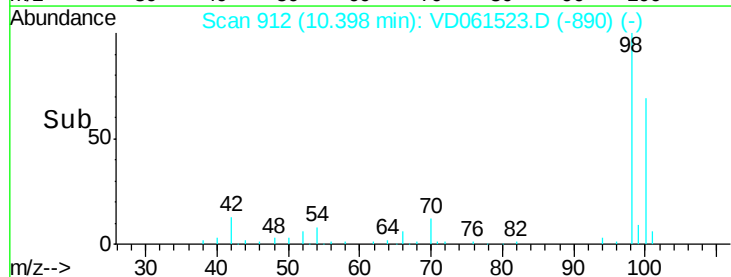
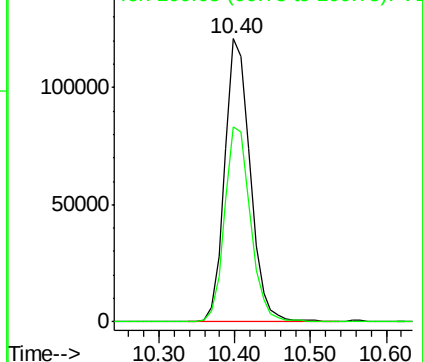


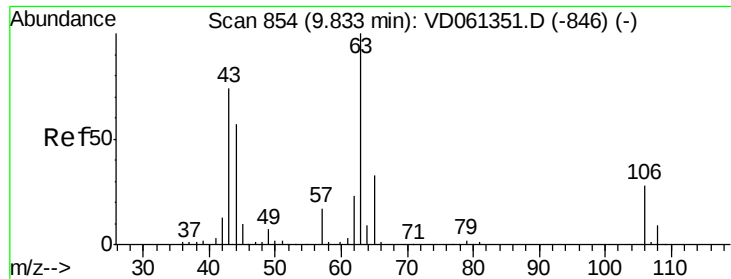
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.40 min Scan# 912  
Delta R.T. 0.01 min  
Lab File: VD061523.D  
Acq: 2 Apr 2019 19:20

Tgt Ion: 98 Resp: 280855  
Ion Ratio Lower Upper  
98 100  
100 68.7 56.2 84.2



Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

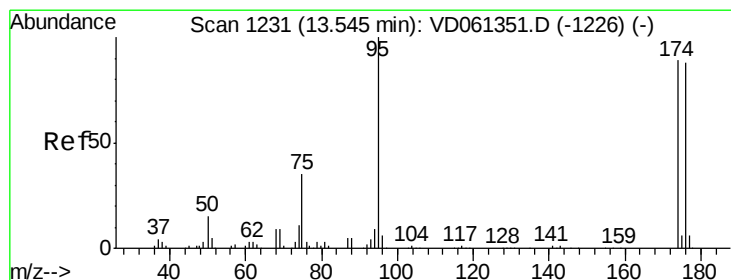
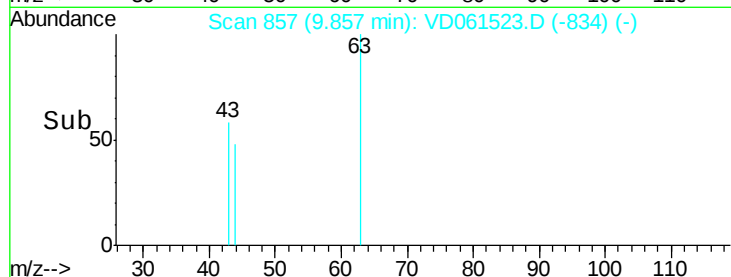
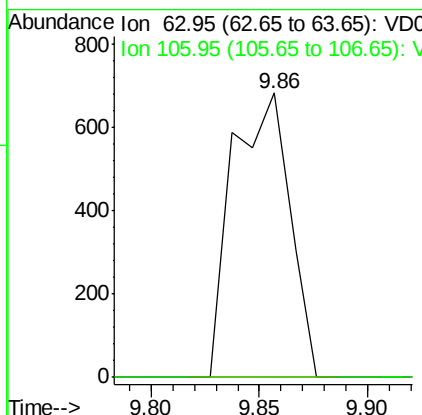
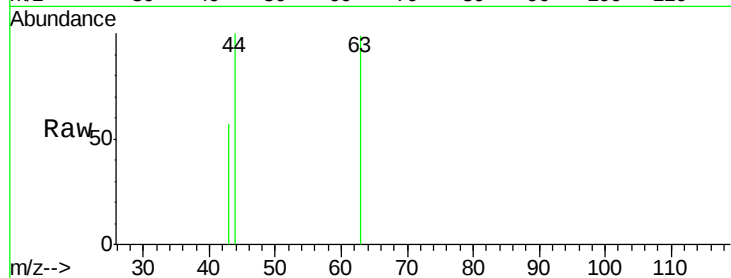




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 1.196 ug/l  
 RT: 9.86 min Scan# 857  
 Delta R.T. 0.02 min  
 Lab File: VD061523.D  
 Acq: 2 Apr 2019 19:20

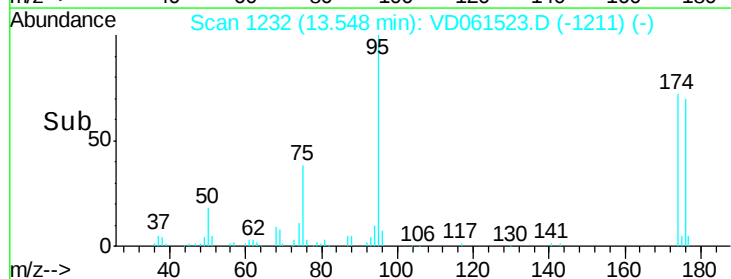
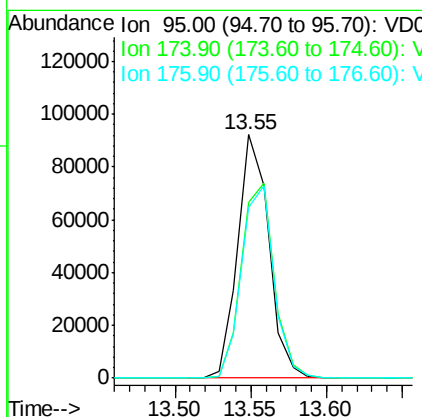
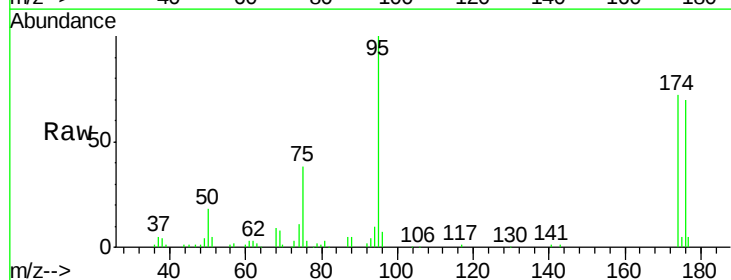
Instrument :  
 MSVOA\_D  
 ClientSampleId :

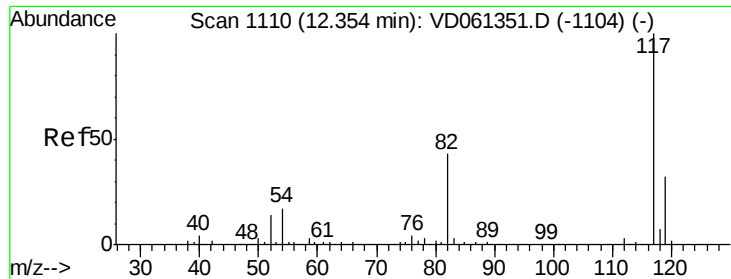
Tot Ion: 63 Resp: 1252  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 22.4 33.6#



#62  
 4-Bromofluorobenzene  
 Concen: N.D. ug/l  
 RT: 13.55 min Scan# 1232  
 Delta R.T. 0.00 min  
 Lab File: VD061523.D  
 Acq: 2 Apr 2019 19:20

Tgt Ion: 95 Resp: 131340  
 Ion Ratio Lower Upper  
 95 100  
 174 72.2 0.0 178.0  
 176 70.3 0.0 175.0

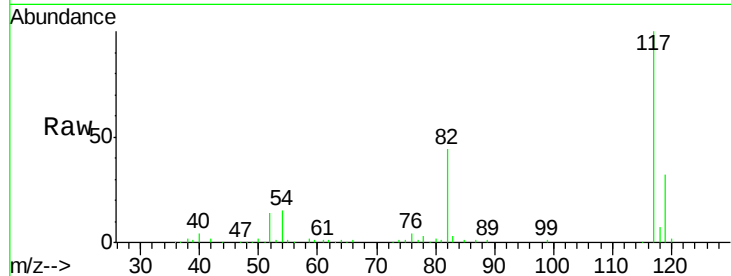




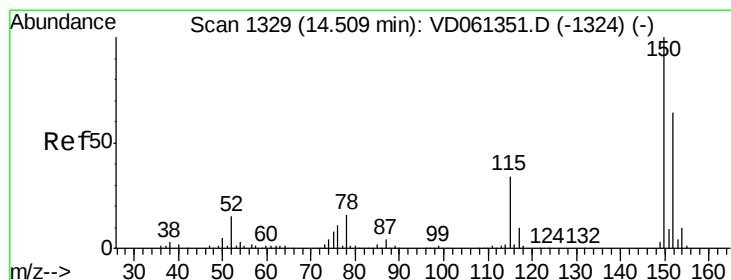
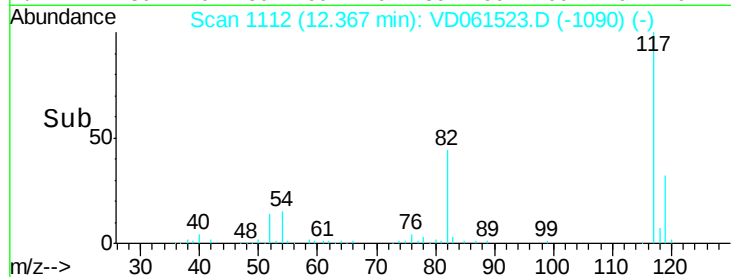
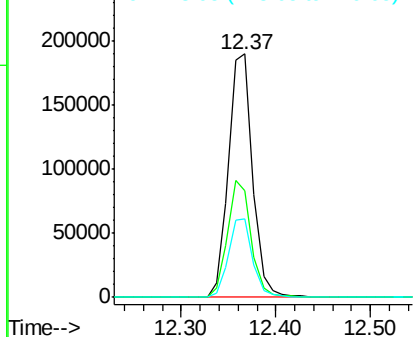
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VD061523.D  
Acq: 2 Apr 2019 19:20

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:117 Resp: 335033  
Ion Ratio Lower Upper  
117 100  
82 43.8 34.4 51.6  
119 32.4 25.8 38.6

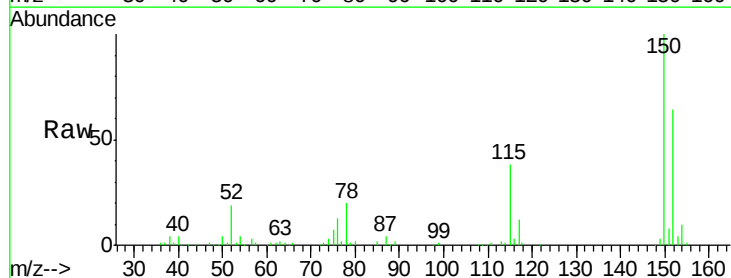


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

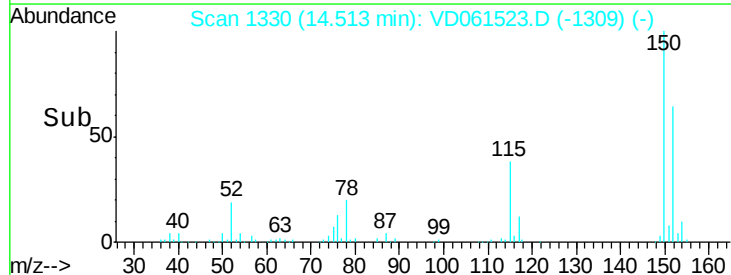
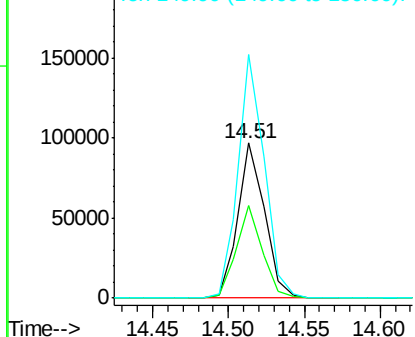


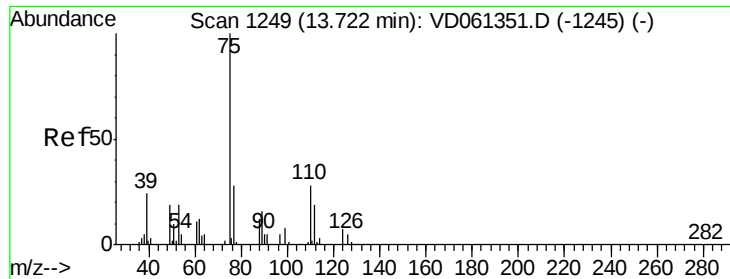
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD061523.D  
Acq: 2 Apr 2019 19:20

Tgt Ion:152 Resp: 118041  
Ion Ratio Lower Upper  
152 100  
115 59.4 26.9 80.6  
150 157.0 0.0 318.0



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





#76

1,2,3-Trichloropropane

Concen: 23.525 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD061523.D

Acq: 2 Apr 2019 19:20

Instrument :

MSVOA\_D

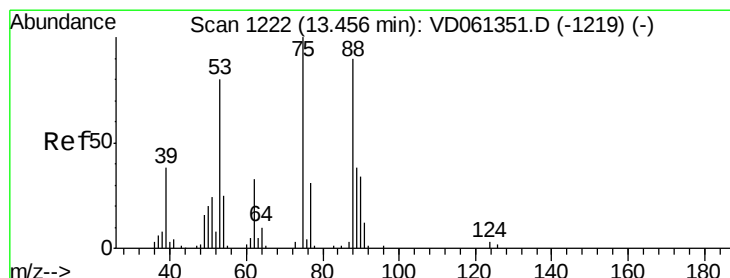
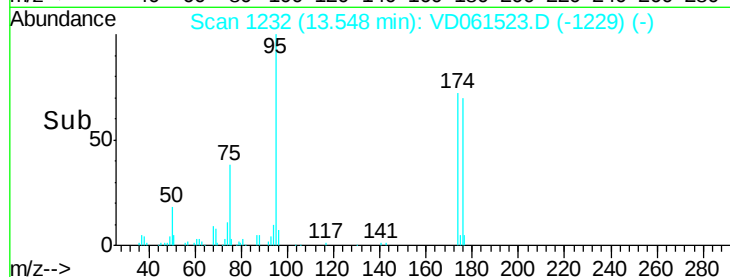
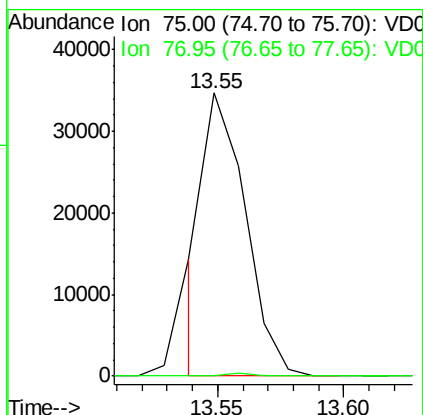
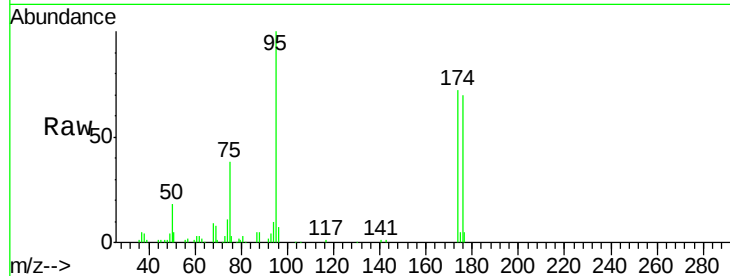
ClientSampleId :

Tot Ion: 75 Resp: 40113

Ion Ratio Lower Upper

75 100

77 0.0 16.2 48.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 95.002 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD061523.D

Acq: 2 Apr 2019 19:20

Tgt Ion: 75 Resp: 49391

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#

