

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062818\  
 Data File : VD059469.D  
 Acq On : 28 Jun 2018 18:17  
 Operator : VA/AP  
 Sample : J3629-13  
 Misc : 5.40g/5ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jun 29 01:27:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062518S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 07:29:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 515847   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.69  | 114  | 675084   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.70 | 117  | 462076   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.91 | 152  | 135939   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.02  | 65   | 308381   | 58.46 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 116.92% |          |
| 35) Dibromofluoromethane    | 5.55  | 113  | 313543   | 57.02 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 114.04% |          |
| 50) Toluene-d8              | 8.71  | 98   | 592349   | 46.08 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.16%  |          |
| 62) 4-Bromofluorobenzene    | 11.94 | 95   | 184901   | 34.58 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 69.16%  |          |

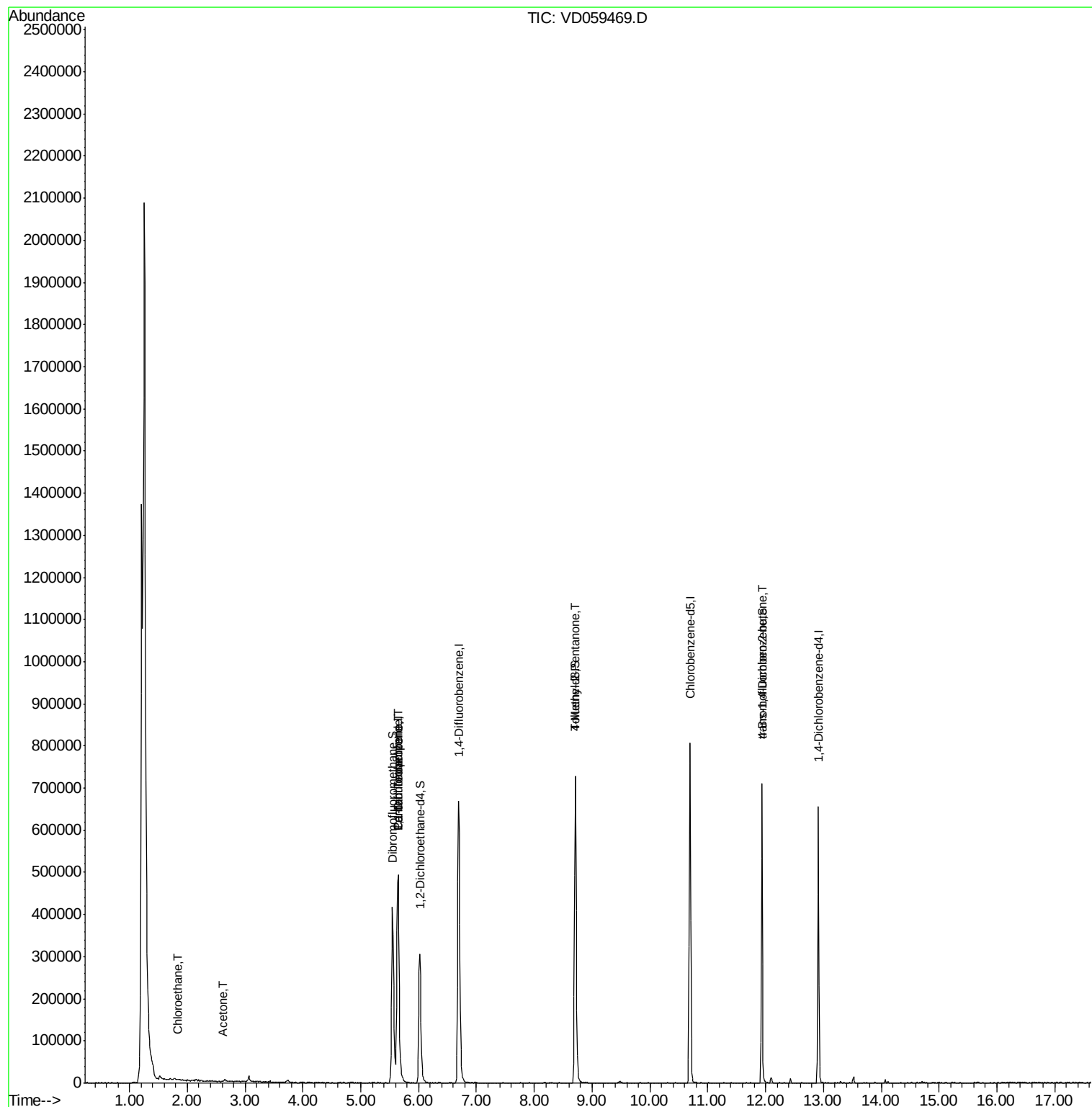
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.87  | 94   | 716      | Below Cal | #      | 4      |
| 6) Chloroethane                | 1.83  | 64   | 210      | 2.077     | ug/l # | 41     |
| 16) Acetone                    | 2.61  | 43   | 2562     | 3.848     | ug/l # | 58     |
| 18) Methyl Acetate             | 2.92  | 43   | 292      | Below Cal | #      | 66     |
| 20) Methylene Chloride         | 3.07  | 84   | 3702     | Below Cal | #      | 49     |
| 31) Cyclohexane                | 5.64  | 56   | 11475    | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 40354    | 6.590     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 39952    | 6.328     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 8.71  | 43   | 3234     | 1.036     | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 11.94 | 75   | 88895    | 208.583   | ug/l # | 1      |

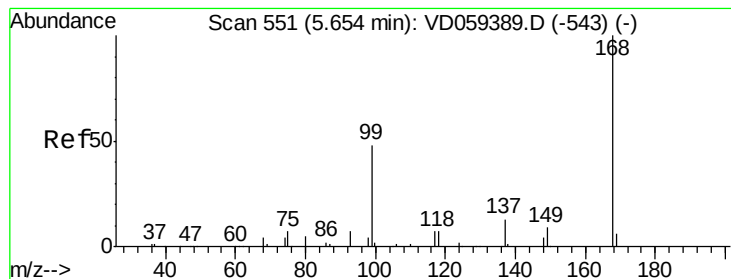
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :

Quant Time: Jun 29 01:27:55 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D062518S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 25 07:29:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.01 min

Lab File: VD059469.D

Acq: 28 Jun 2018 18:17

Instrument :

MSVOA\_D

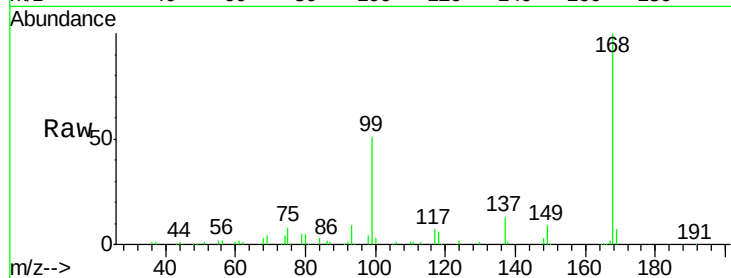
ClientSampled :

Tot Ion:168 Resp: 515847

Ion Ratio Lower Upper

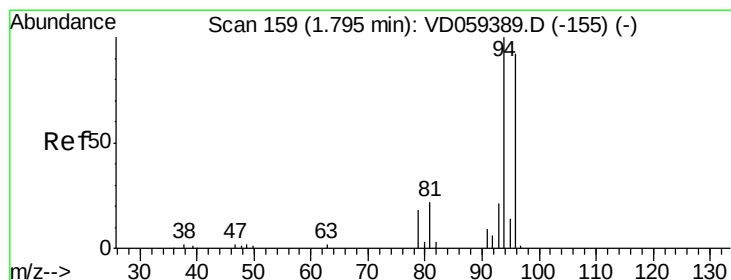
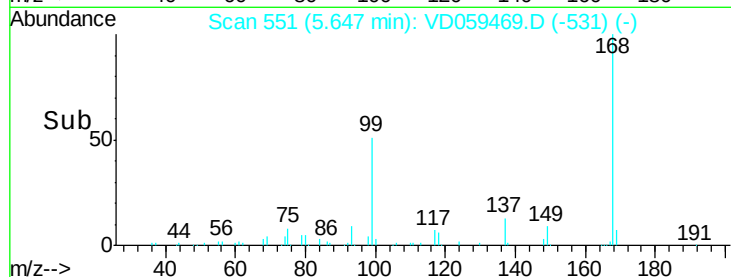
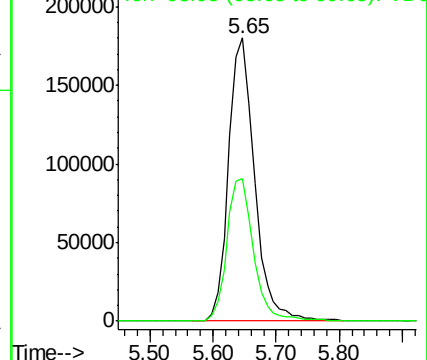
168 100

99 50.6 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 1.87 min Scan# 167

Delta R.T. 0.07 min

Lab File: VD059469.D

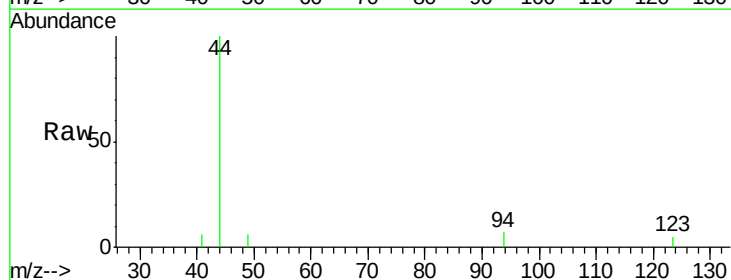
Acq: 28 Jun 2018 18:17

Tgt Ion: 94 Resp: 716

Ion Ratio Lower Upper

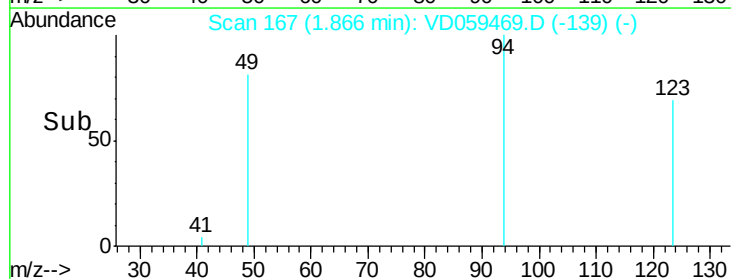
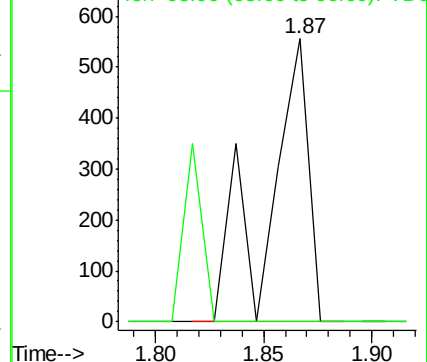
94 100

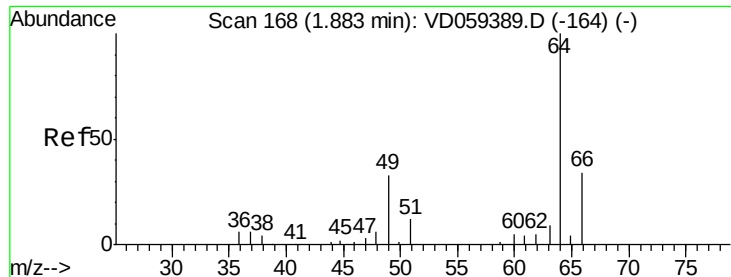
96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#6

Chloroethane

Concen: 2.077 ug/l

RT: 1.83 min Scan# 163

Delta R.T. -0.06 min

Lab File: VD059469.D

Acq: 28 Jun 2018 18:17

Instrument :

MSVOA\_D

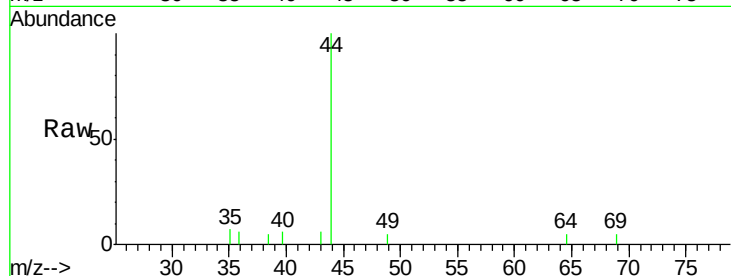
ClientSampleId :

Tot Ion: 64 Resp: 210

Ion Ratio Lower Upper

64 100

66 0.0 27.1 40.7#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.83

300

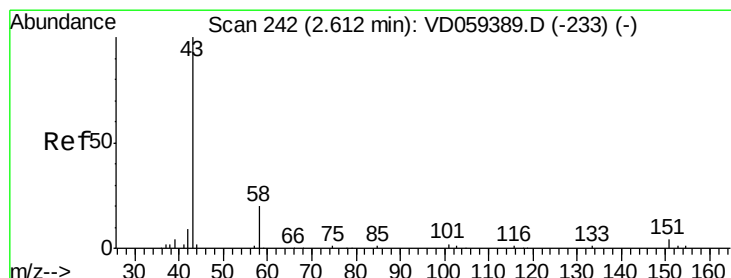
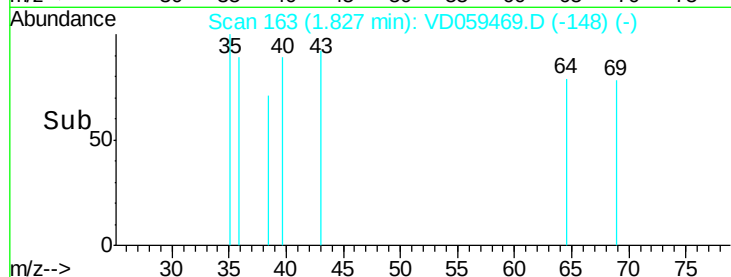
200

100

0

1.80 1.82 1.84 1.86

Time-->



#16

Acetone

Concen: 3.848 ug/l

RT: 2.61 min Scan# 243

Delta R.T. 0.00 min

Lab File: VD059469.D

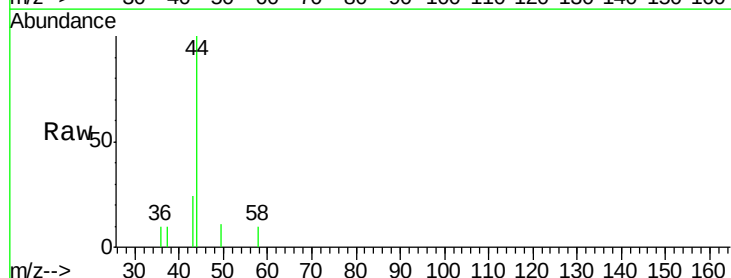
Acq: 28 Jun 2018 18:17

Tgt Ion: 43 Resp: 2562

Ion Ratio Lower Upper

43 100

58 40.9 16.8 25.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.61

800

600

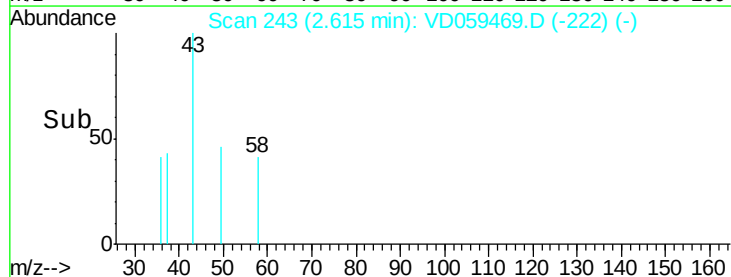
400

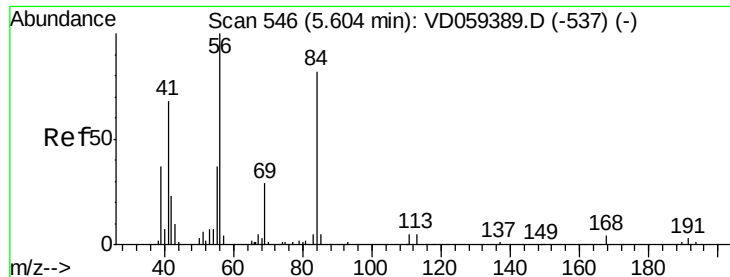
200

0

2.55 2.60 2.65 2.70

Time-->

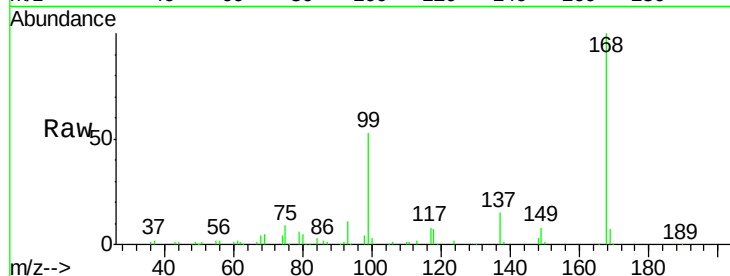




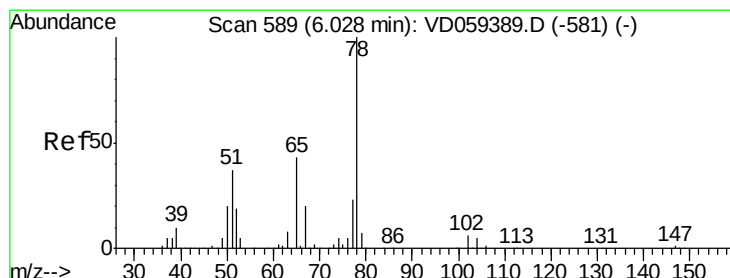
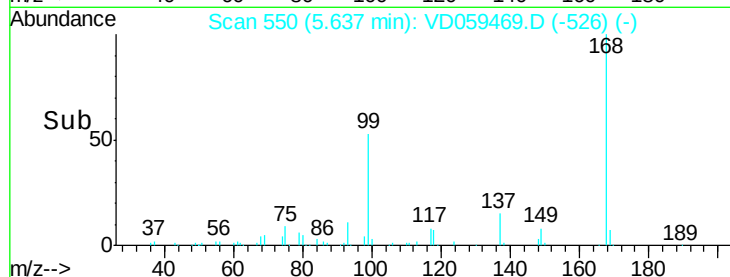
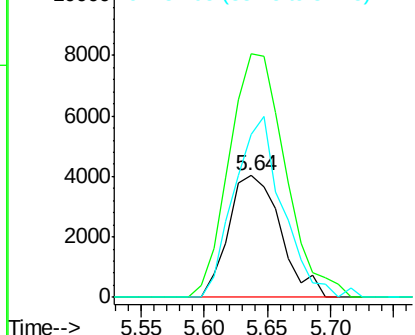
#31  
Cyclohexane  
Concen: Below Cal  
RT: 5.64 min Scan# 550  
Delta R.T. 0.03 min  
Lab File: VD059469.D  
Acq: 28 Jun 2018 18:17

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 56 Resp: 11475  
Ion Ratio Lower Upper  
56 100  
69 200.6 22.9 34.3#  
84 134.1 67.3 100.9#

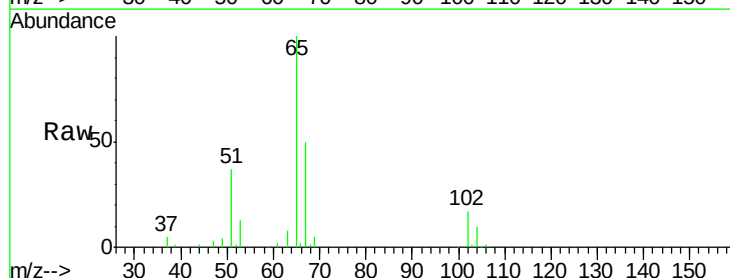


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

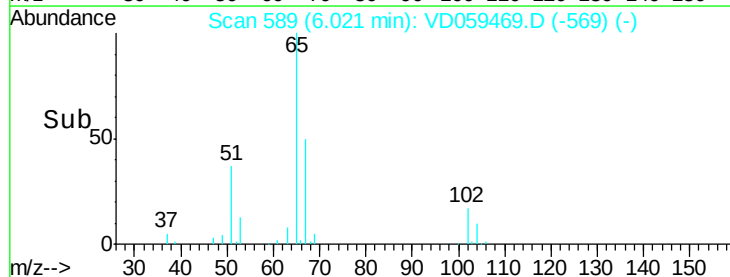
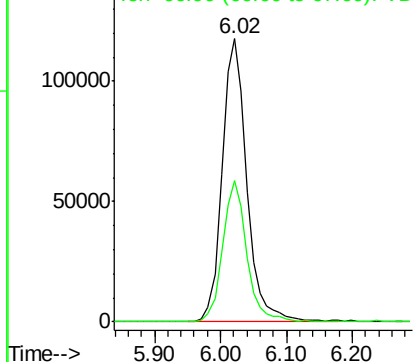


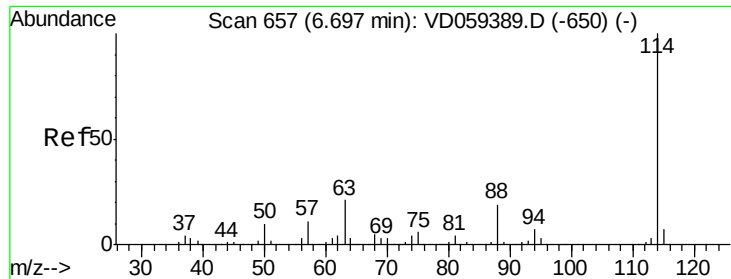
#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 6.02 min Scan# 589  
Delta R.T. -0.01 min  
Lab File: VD059469.D  
Acq: 28 Jun 2018 18:17

Tgt Ion: 65 Resp: 308381  
Ion Ratio Lower Upper  
65 100  
67 49.9 0.0 93.8



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: 6.69 min Scan# 657

Delta R.T. -0.01 min

Lab File: VD059469.D

Acq: 28 Jun 2018 18:17

Instrument :

MSVOA\_D

ClientSampleId :

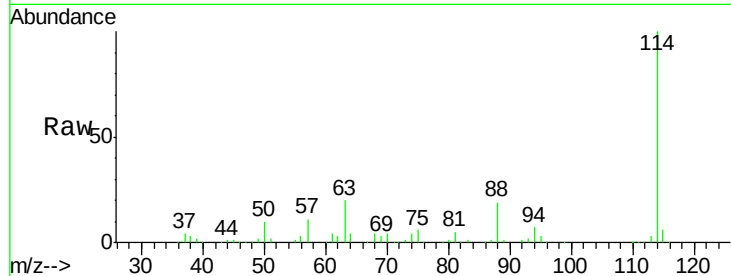
Tot Ion:114 Resp: 675084

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.4

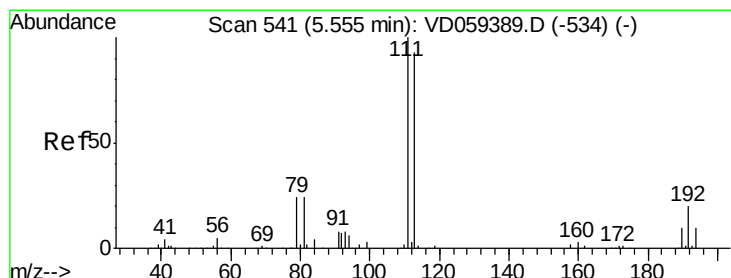
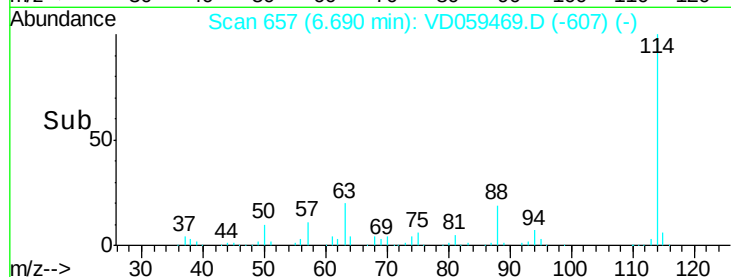
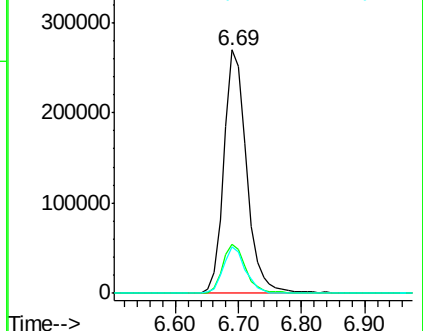
88 19.3 0.0 38.0



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: 5.55 min Scan# 541

Delta R.T. -0.01 min

Lab File: VD059469.D

Acq: 28 Jun 2018 18:17

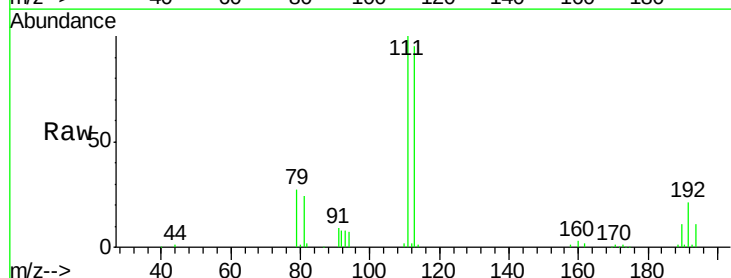
Tgt Ion:113 Resp: 313543

Ion Ratio Lower Upper

113 100

111 105.2 85.7 128.5

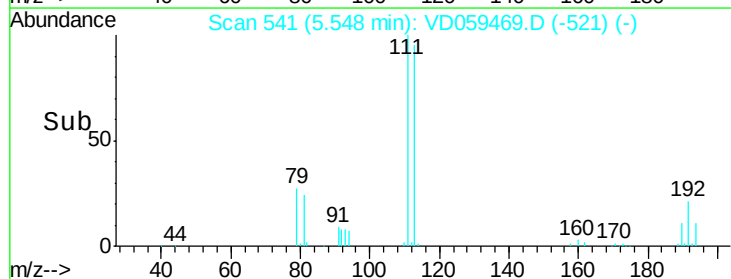
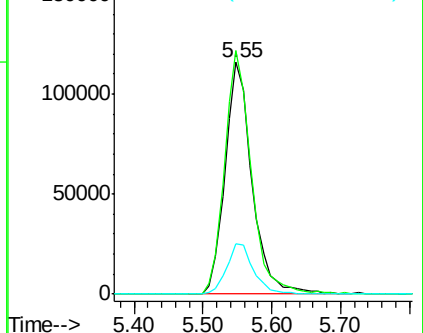
192 21.7 16.9 25.3

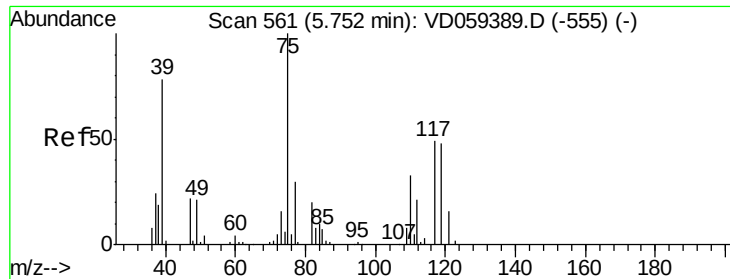


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

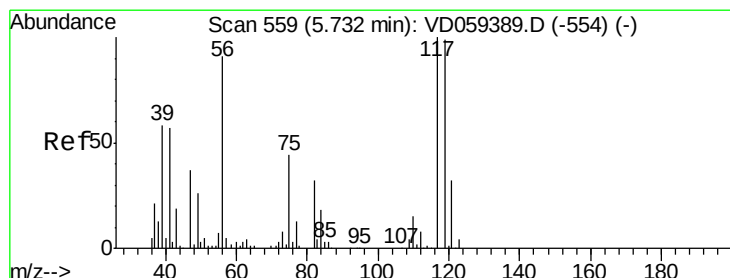
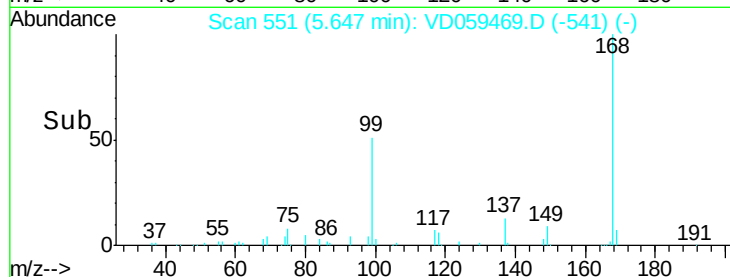
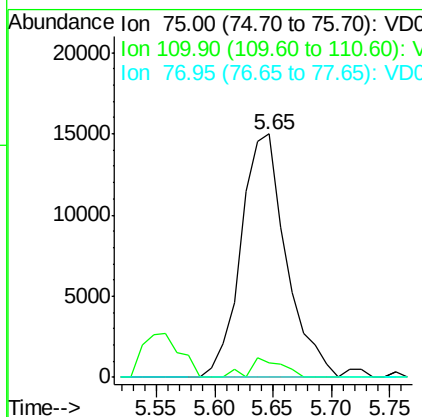
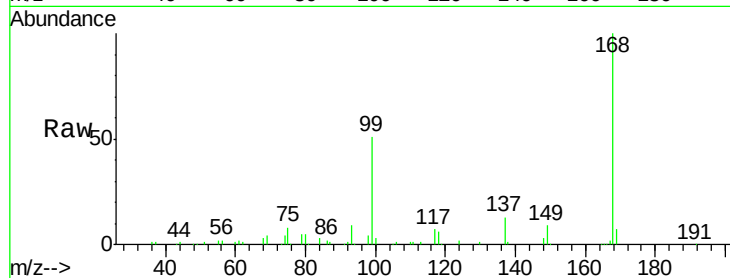




#36  
 1,1-Dichloropropene  
 Concen: 6.590 ug/l  
 RT: 5.65 min Scan# 551  
 Delta R.T. -0.11 min  
 Lab File: VD059469.D  
 Acq: 28 Jun 2018 18:17

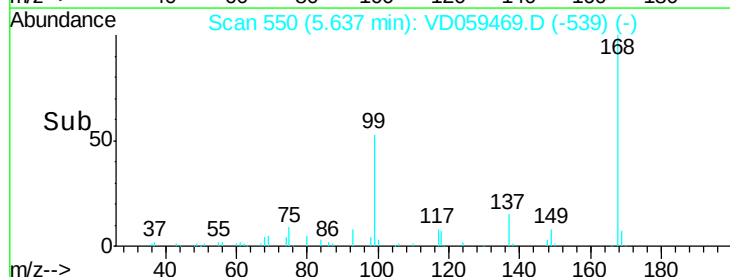
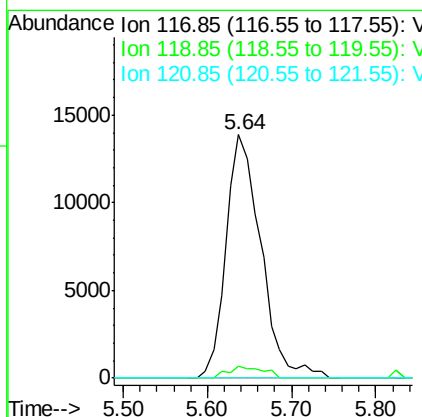
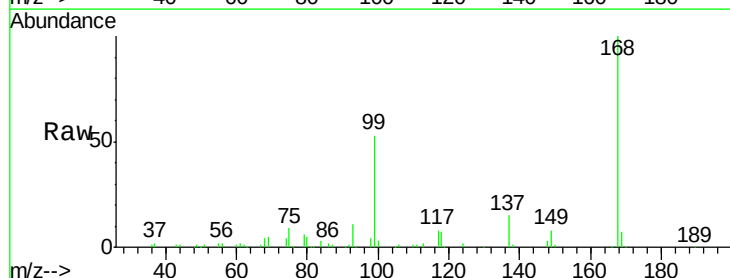
Instrument :  
 MSVOA\_D  
 ClientSampleId :

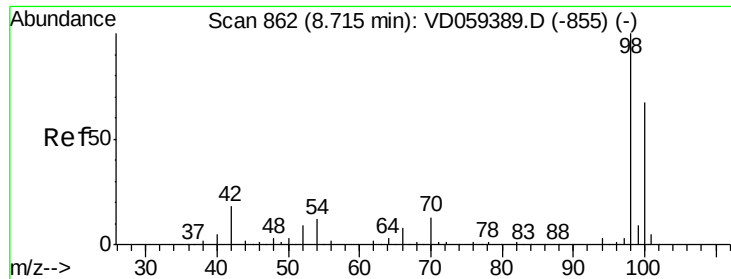
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.1   | 16.1  | 48.2# |
| 77      | 0.0   | 23.4  | 35.2# |



#38  
 Carbon Tetrachloride  
 Concen: 6.328 ug/l  
 RT: 5.64 min Scan# 550  
 Delta R.T. -0.10 min  
 Lab File: VD059469.D  
 Acq: 28 Jun 2018 18:17

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.8   | 76.6  | 115.0# |
| 121     | 0.0   | 25.0  | 37.4#  |

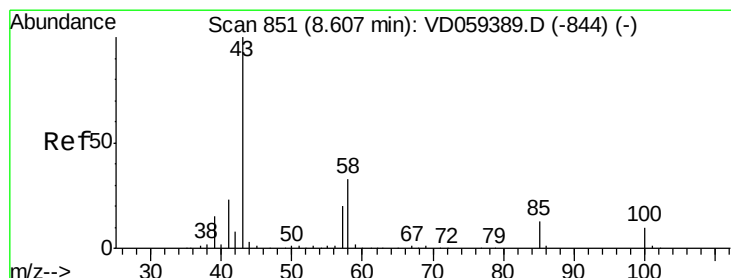
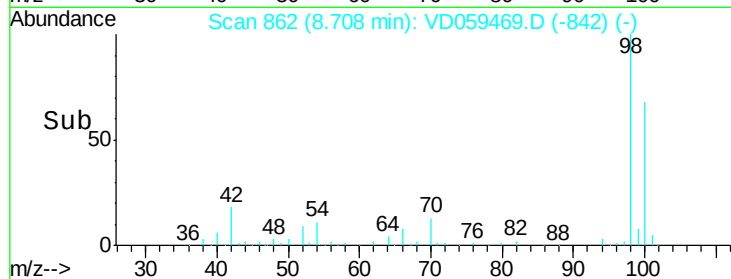
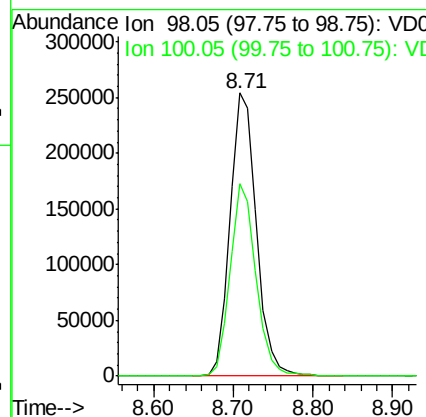
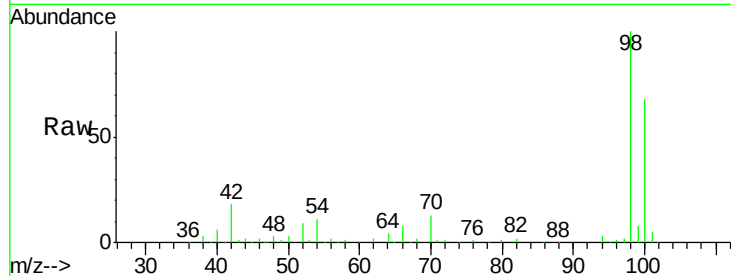




#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 8.71 min Scan# 862  
Delta R.T. -0.01 min  
Lab File: VD059469.D  
Acq: 28 Jun 2018 18:17

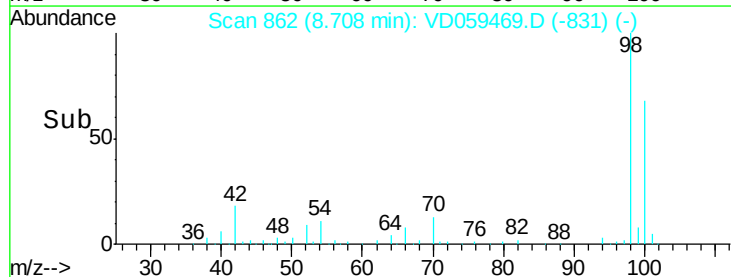
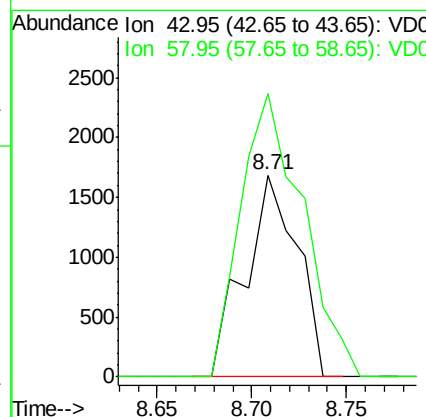
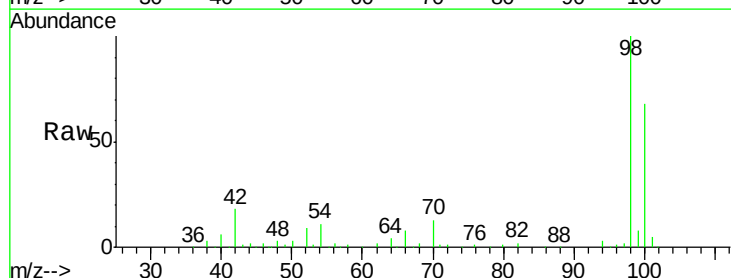
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 98 Resp: 592349  
Ion Ratio Lower Upper  
98 100  
100 68.1 54.4 81.6

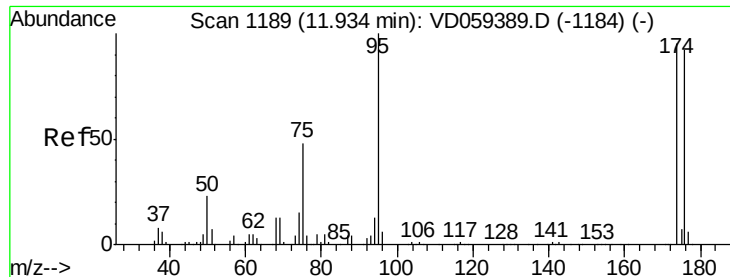


#51  
4-Methyl-2-Pentanone  
Concen: 1.036 ug/l  
RT: 8.71 min Scan# 862  
Delta R.T. 0.10 min  
Lab File: VD059469.D  
Acq: 28 Jun 2018 18:17

Tgt Ion: 43 Resp: 3234  
Ion Ratio Lower Upper  
43 100  
58 140.3 26.3 39.5#



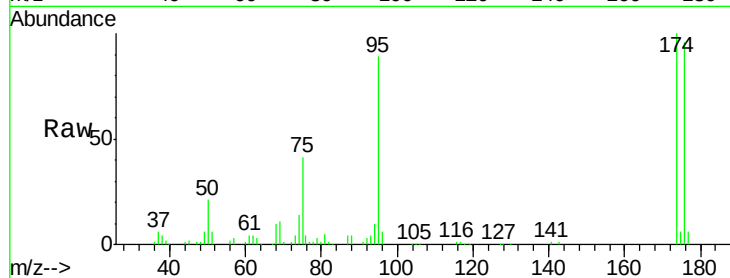




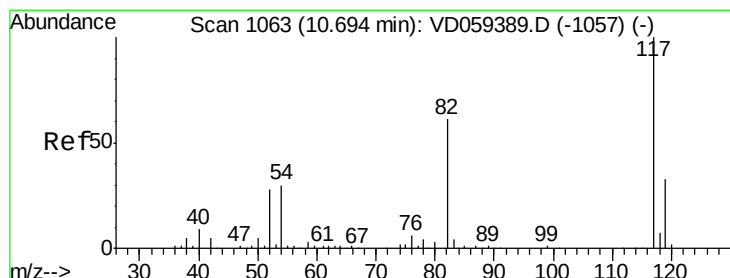
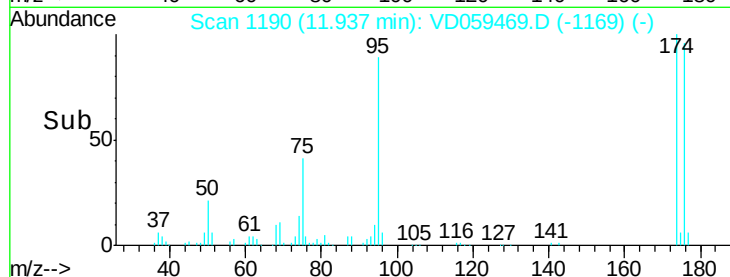
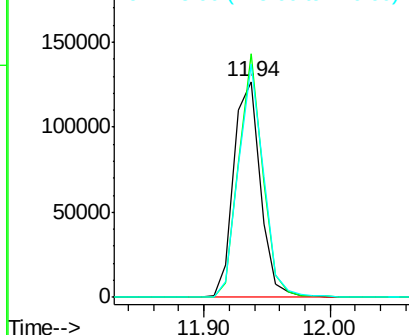
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 11.94 min Scan# 1190  
Delta R.T. 0.00 min  
Lab File: VD059469.D  
Acq: 28 Jun 2018 18:17

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 95 Resp: 184901  
Ion Ratio Lower Upper  
95 100  
174 112.8 0.0 190.4  
176 107.9 0.0 183.2

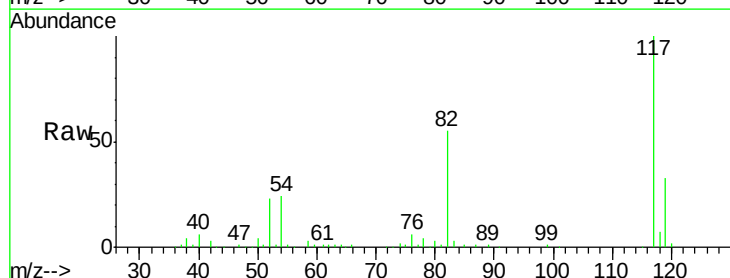


Abundance Ion 95.00 (94.70 to 95.70): V  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

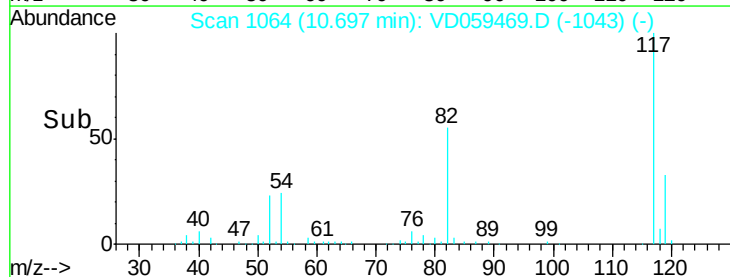
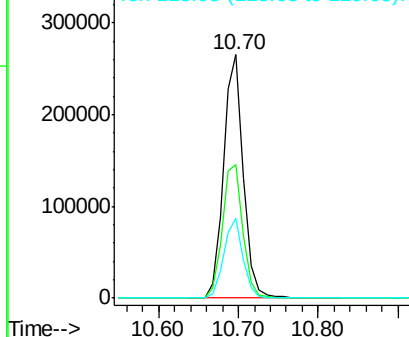


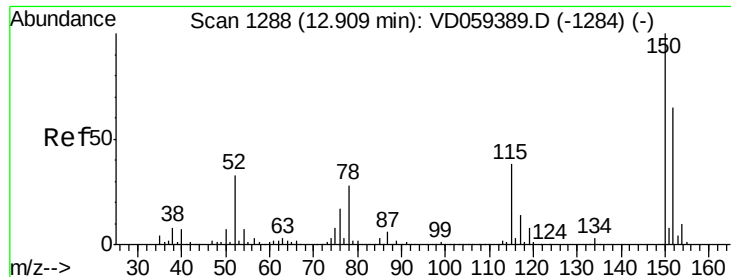
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.70 min Scan# 1064  
Delta R.T. 0.00 min  
Lab File: VD059469.D  
Acq: 28 Jun 2018 18:17

Tgt Ion: 117 Resp: 462076  
Ion Ratio Lower Upper  
117 100  
82 54.6 49.0 73.6  
119 32.9 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



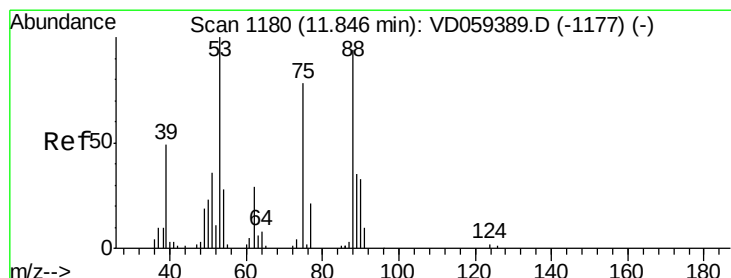
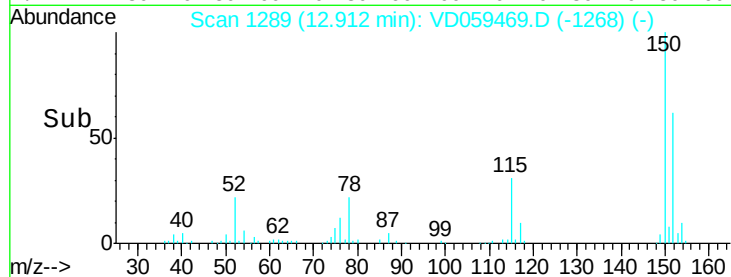
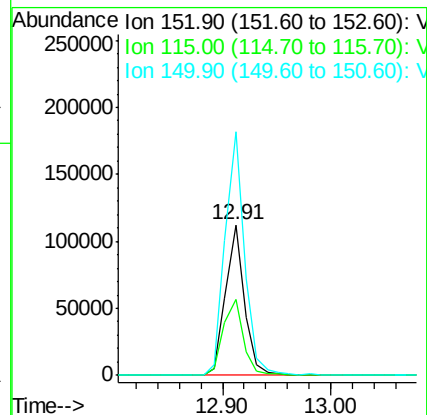
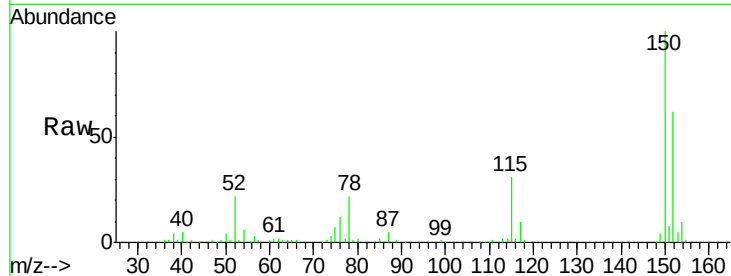


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.91 min Scan# 1289  
Delta R.T. 0.00 min  
Lab File: VD059469.D  
Acq: 28 Jun 2018 18:17

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:152 Resp: 135939  
Ion Ratio Lower Upper  
152 100  
115 50.2 29.4 88.3  
150 162.0 0.0 308.2



#81

trans-1,4-Dichloro-2-butene  
Concen: 208.583 ug/l  
RT: 11.94 min Scan# 1190  
Delta R.T. 0.09 min  
Lab File: VD059469.D  
Acq: 28 Jun 2018 18:17

Tgt Ion: 75 Resp: 88895  
Ion Ratio Lower Upper  
75 100  
53 0.0 102.6 154.0#  
89 0.0 35.9 53.9#

