

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090518\  
 Data File : VD059972.D  
 Acq On : 5 Sep 2018 16:36  
 Operator : JC/SY  
 Sample : J4741-11  
 Misc : 5.35g/5ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 AOC10-02-C

Quant Time: Sep 05 16:58:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 03:03:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.38  | 168  | 791252   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 7.42  | 114  | 1150073  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 589685   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 13.36 | 152  | 140526   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.76  | 65   | 505938   | 75.86  | ug/l    | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 151.72% |          |
| 35) Dibromofluoromethane    | 6.30  | 113  | 554573   | 61.51  | ug/l    | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 123.02% |          |
| 50) Toluene-d8              | 9.44  | 98   | 983228   | 39.29  | ug/l    | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 78.58%  |          |
| 62) 4-Bromofluorobenzene    | 12.42 | 95   | 219050   | 21.55  | ug/l    | -0.01    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 43.10%  |          |

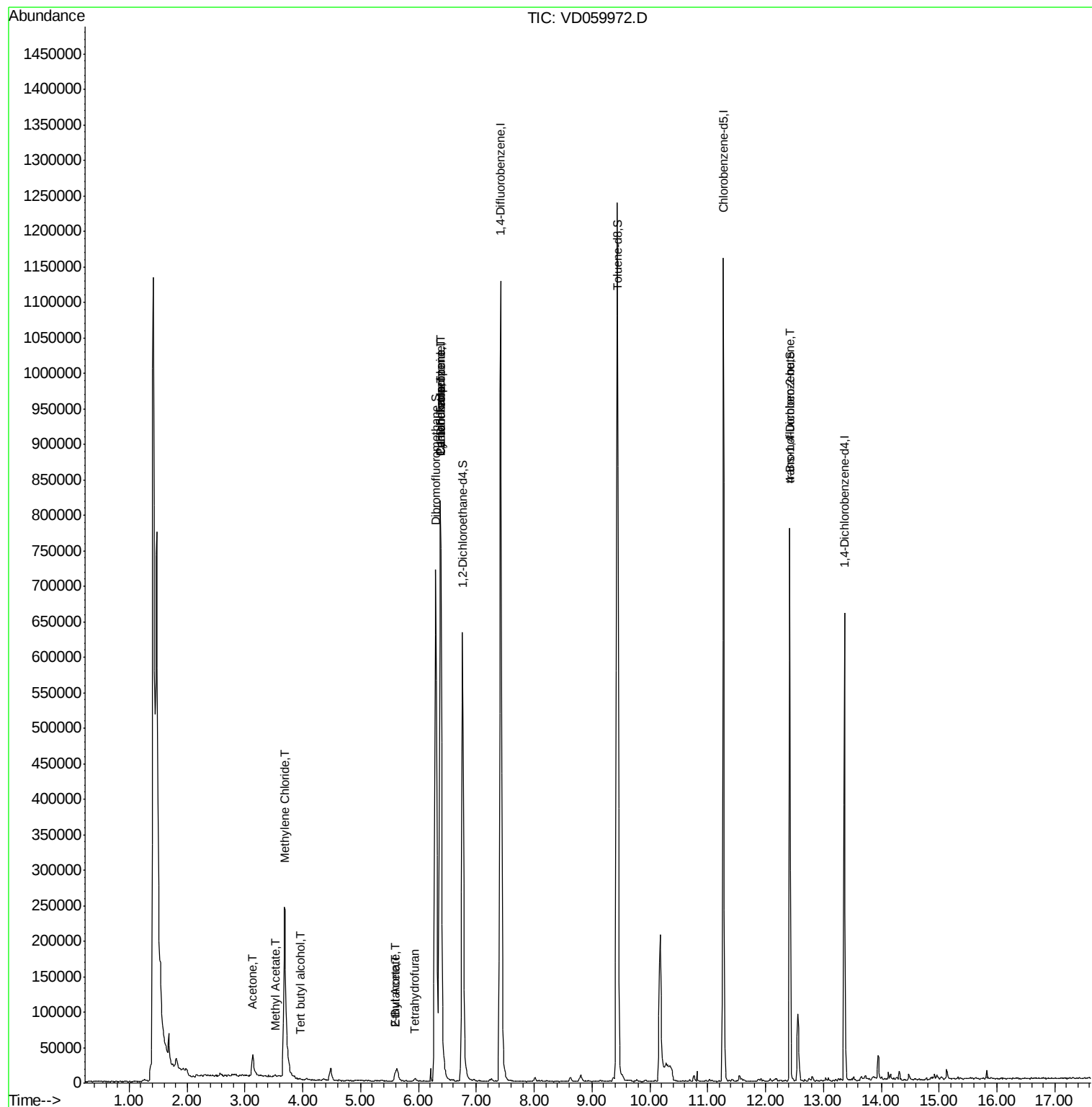
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 3.97  | 59   | 612      | 1.203     | ug/l # | 75     |
| 16) Acetone                    | 3.13  | 43   | 65048    | 53.536    | ug/l   | 94     |
| 18) Methyl Acetate             | 3.53  | 43   | 8819     | 3.477     | ug/l # | 66     |
| 20) Methylene Chloride         | 3.68  | 84   | 140797   | 14.737    | ug/l   | 96     |
| 25) 2-Butanone                 | 5.59  | 43   | 23517    | 6.535     | ug/l   | 99     |
| 29) Tetrahydrofuran            | 5.94  | 42   | 3413     | 1.992     | ug/l # | 64     |
| 31) Cyclohexane                | 6.38  | 56   | 16176    | 1.274     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.38  | 75   | 58683    | 5.629     | ug/l # | 46     |
| 37) Ethyl Acetate              | 5.59  | 43   | 23517    | 2.899     | ug/l # | 71     |
| 38) Carbon Tetrachloride       | 6.38  | 117  | 61944    | 5.888     | ug/l # | 16     |
| 81) trans-1,4-Dichloro-2-buten | 12.42 | 75   | 92917    | 136.765   | ug/l # | 12     |
| 89) n-Butylbenzene             | 13.64 | 91   | 902      | Below Cal | #      | 79     |

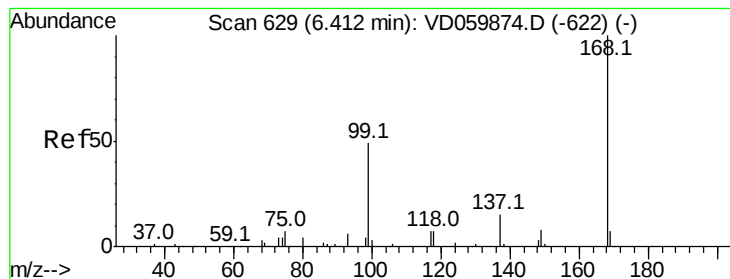
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD090518\  
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Quant Title : SW846 8260  
QLast Update : Thu Aug 23 03:03:08 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 625

Delta R.T. -0.03 min

Lab File: VD059972.D

Acq: 5 Sep 2018 16:36

Instrument :

MSVOA\_D

ClientSampleId :

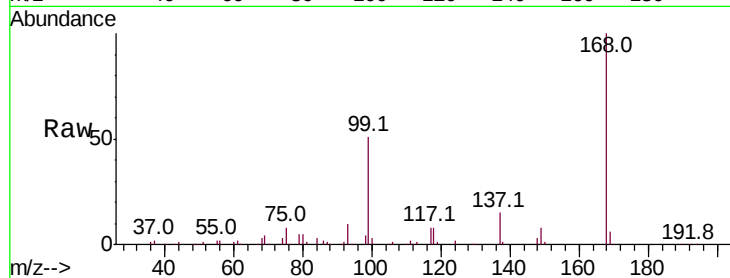
AOC10-02-C

Tot Ion:168 Resp: 791252

Ion Ratio Lower Upper

168 100

99 51.0 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.38

300000

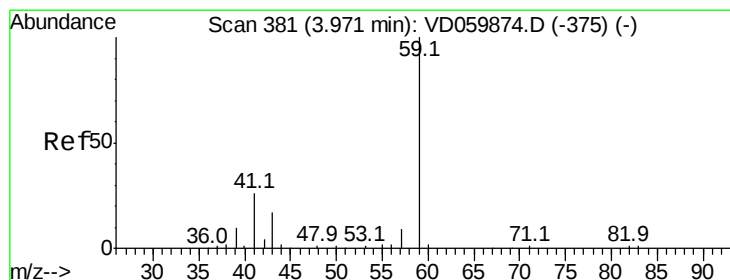
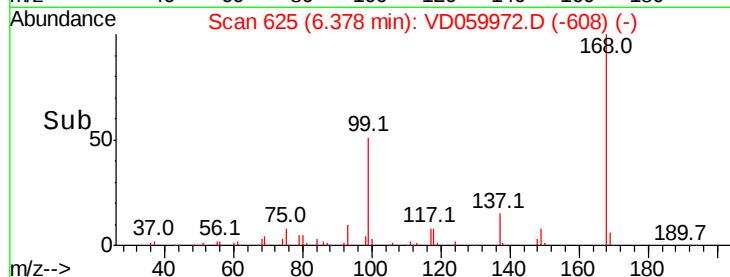
200000

100000

0

Time-->

6.20 6.30 6.40 6.50 6.60



#11

Tert butyl alcohol

Concen: 1.203 ug/l

RT: 3.97 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD059972.D

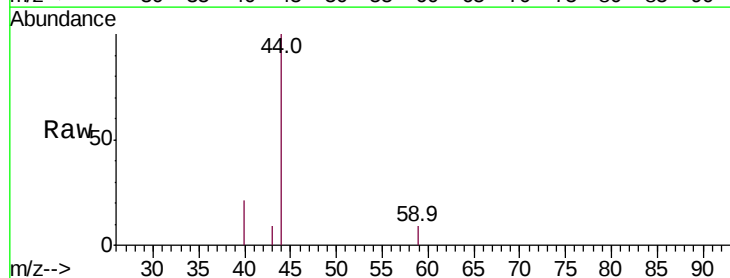
Acq: 5 Sep 2018 16:36

Tgt Ion: 59 Resp: 612

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.97

400

300

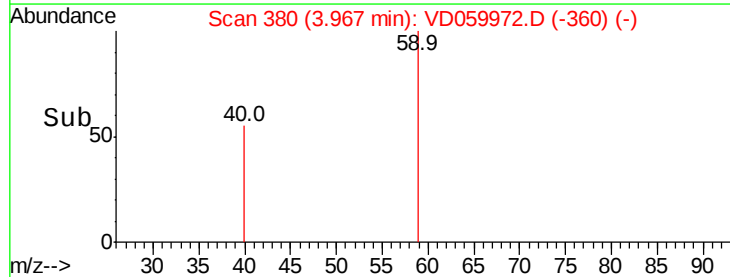
200

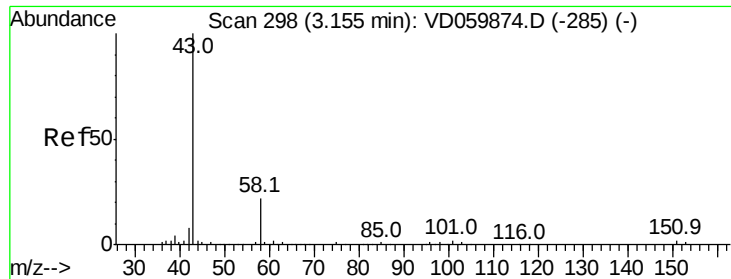
100

0

Time-->

3.92 3.94 3.96 3.98 4.00





#16

Acetone

Concen: 53.536 ug/l

RT: 3.13 min Scan# 295

Delta R.T. -0.02 min

Lab File: VD059972.D

Acq: 5 Sep 2018 16:36

Instrument :

MSVOA\_D

ClientSampleId :

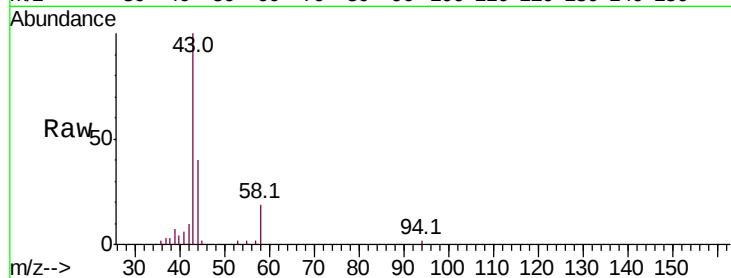
AOC10-02-C

Tot Ion: 43 Resp: 65048

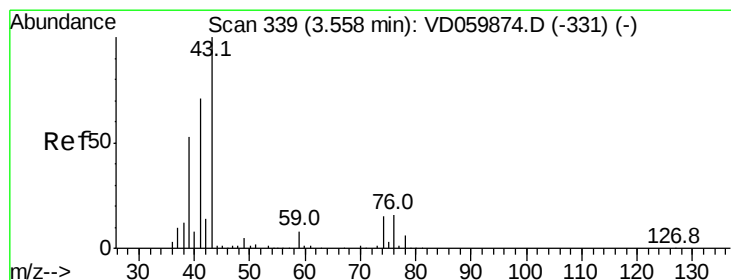
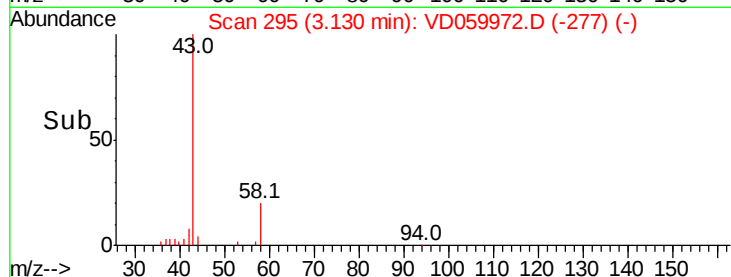
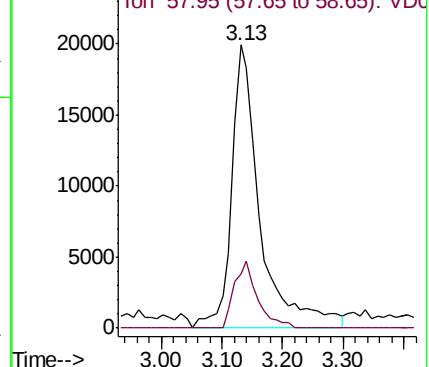
Ion Ratio Lower Upper

43 100

58 19.0 17.6 26.4



Abundance Ion 42.95 (42.65 to 43.65): VDC



#18

Methyl Acetate

Concen: 3.477 ug/l

RT: 3.53 min Scan# 336

Delta R.T. -0.02 min

Lab File: VD059972.D

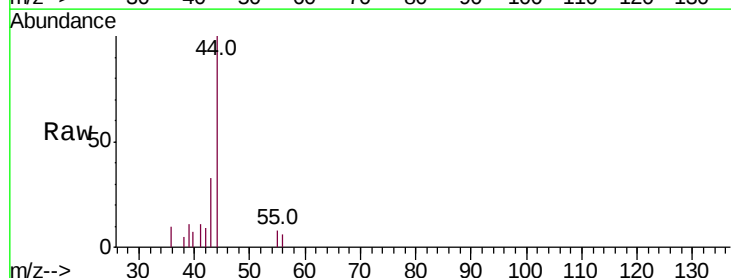
Acq: 5 Sep 2018 16:36

Tgt Ion: 43 Resp: 8819

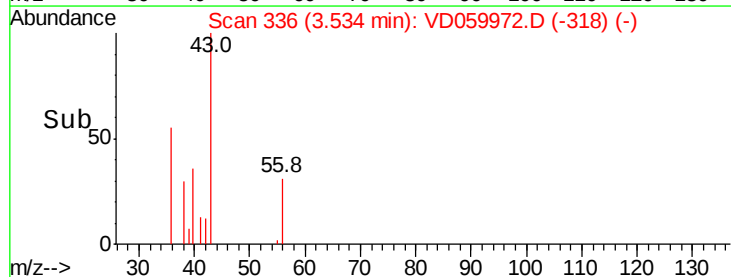
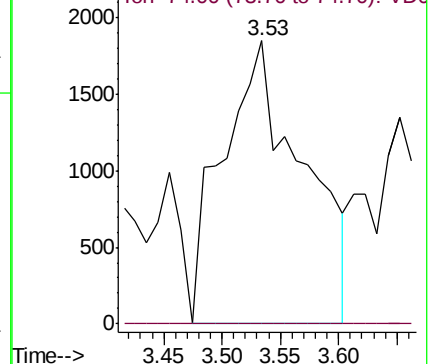
Ion Ratio Lower Upper

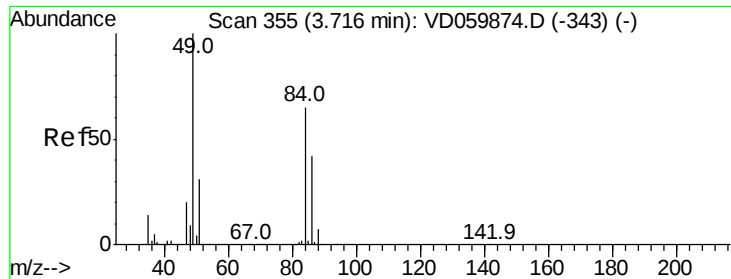
43 100

74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

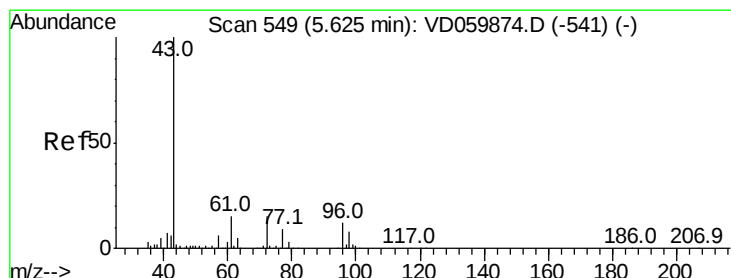
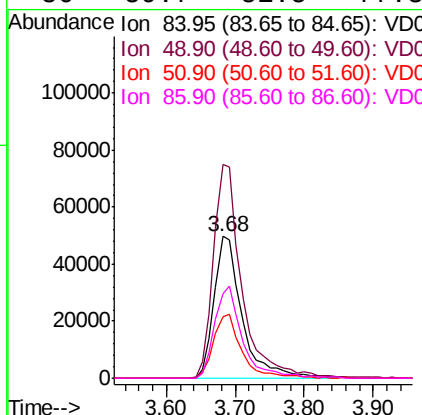
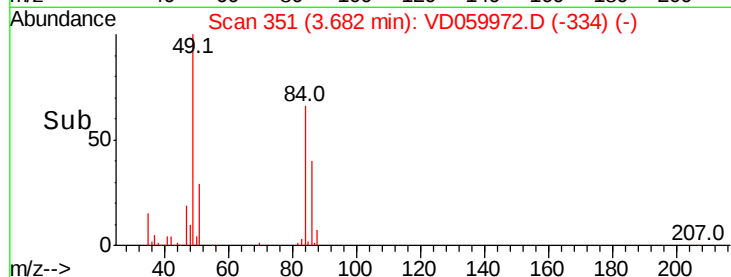
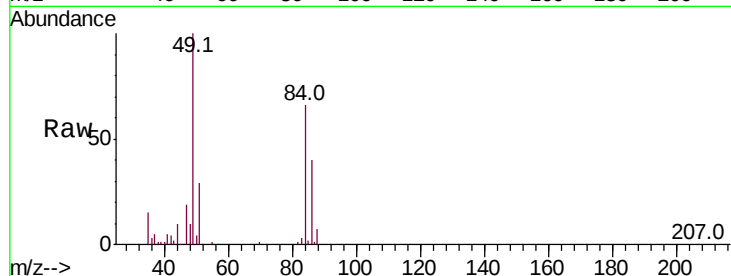




#20  
Methylene Chloride  
Concen: 14.737 ug/l  
RT: 3.68 min Scan# 351  
Delta R.T. -0.03 min  
Lab File: VD059972.D  
Acq: 5 Sep 2018 16:36

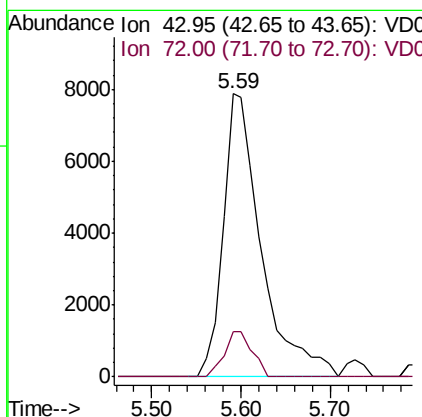
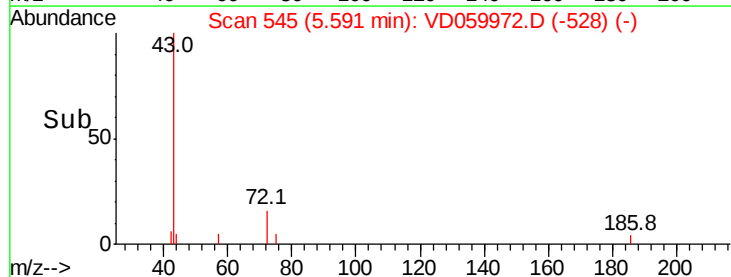
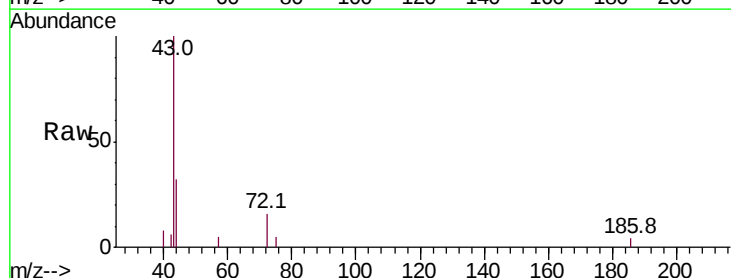
Instrument :  
MSVOA\_D  
ClientSampleId :  
AOC10-02-C

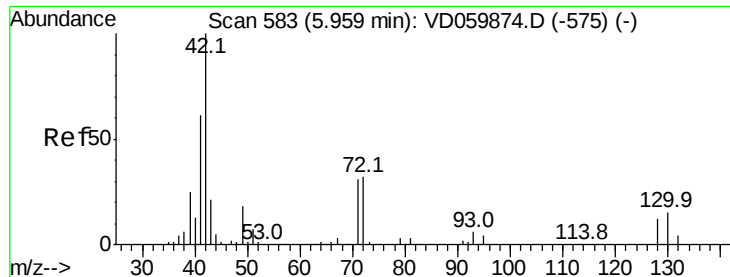
Tot Ion: 84 Resp: 140797  
Ion Ratio Lower Upper  
84 100  
49 150.7 122.6 183.8  
51 43.8 38.4 57.6  
86 59.7 51.5 77.3



#25  
2-Butanone  
Concen: 6.535 ug/l  
RT: 5.59 min Scan# 545  
Delta R.T. -0.03 min  
Lab File: VD059972.D  
Acq: 5 Sep 2018 16:36

Tgt Ion: 43 Resp: 23517  
Ion Ratio Lower Upper  
43 100  
72 15.8 12.3 18.5





#29

Tetrahydrofuran

Concen: 1.992 ug/l

RT: 5.94 min Scan# 580

Delta R.T. -0.02 min

Lab File: VD059972.D

Acq: 5 Sep 2018 16:36

Instrument :

MSVOA\_D

ClientSampleId :

AOC10-02-C

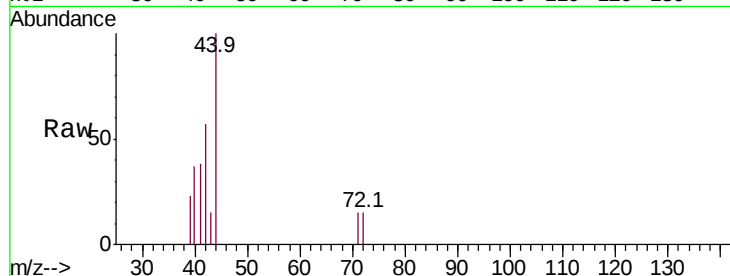
Tot Ion: 42 Resp: 3413

Ion Ratio Lower Upper

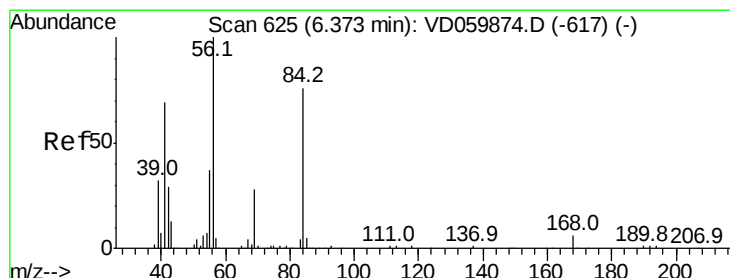
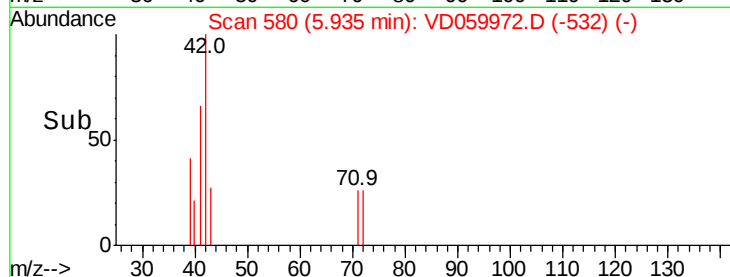
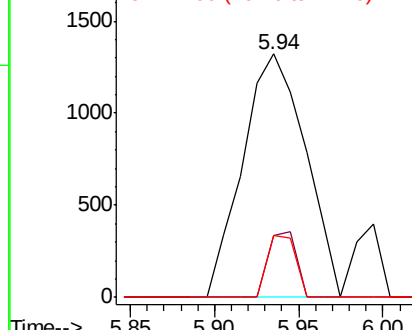
42 100

72 12.0 25.7 38.5#

71 11.5 25.3 37.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC  
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.274 ug/l

RT: 6.38 min Scan# 625

Delta R.T. 0.01 min

Lab File: VD059972.D

Acq: 5 Sep 2018 16:36

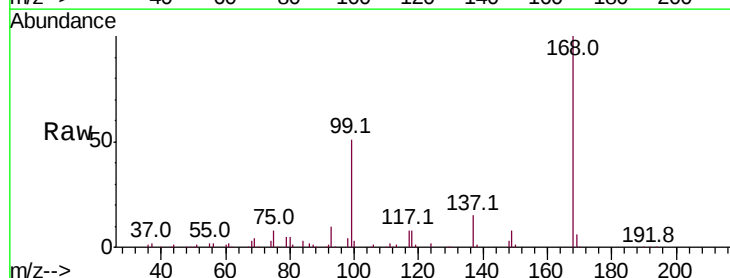
Tgt Ion: 56 Resp: 16176

Ion Ratio Lower Upper

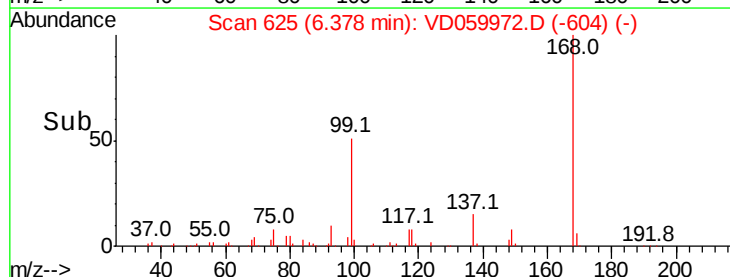
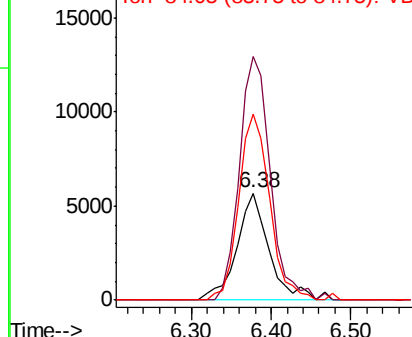
56 100

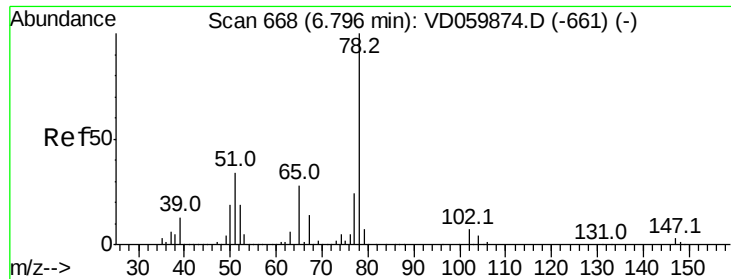
69 227.6 22.4 33.6#

84 173.5 62.1 93.1#



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: 6.76 min Scan# 664

Delta R.T. -0.03 min

Lab File: VD059972.D

Acq: 5 Sep 2018 16:36

Instrument :

MSVOA\_D

ClientSampleId :

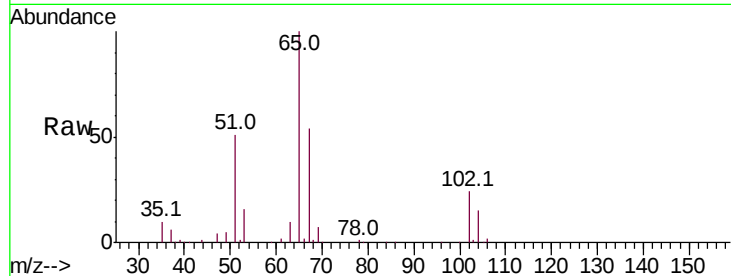
AOC10-02-C

Tot Ion: 65 Resp: 505938

Ion Ratio Lower Upper

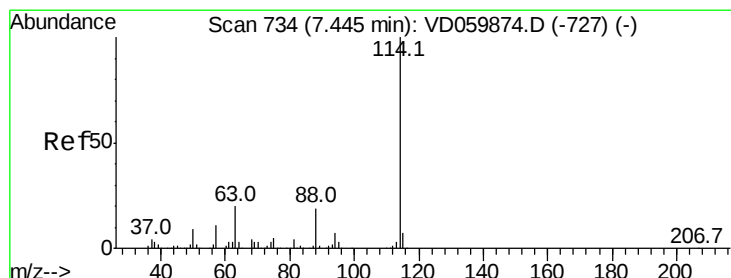
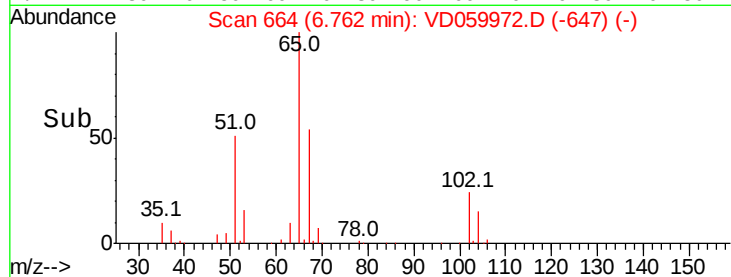
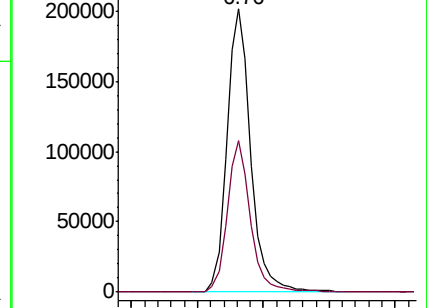
65 100

67 53.6 0.0 103.8



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: 7.42 min Scan# 731

Delta R.T. -0.02 min

Lab File: VD059972.D

Acq: 5 Sep 2018 16:36

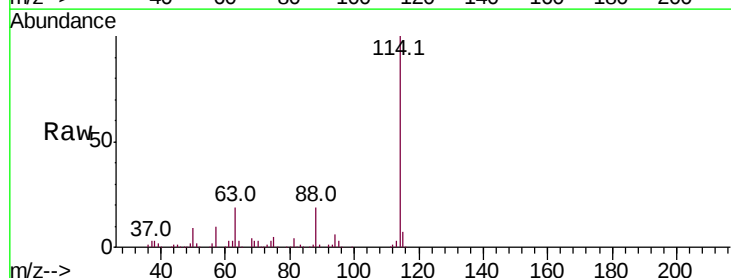
Tgt Ion:114 Resp: 1150073

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.4

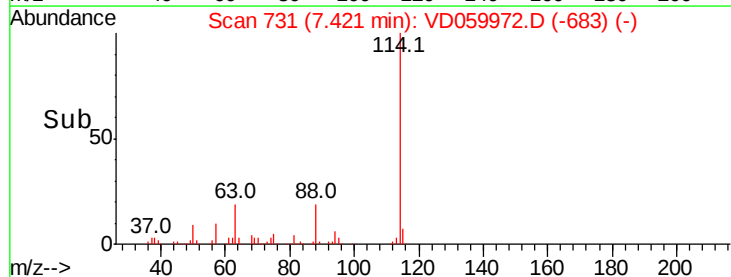
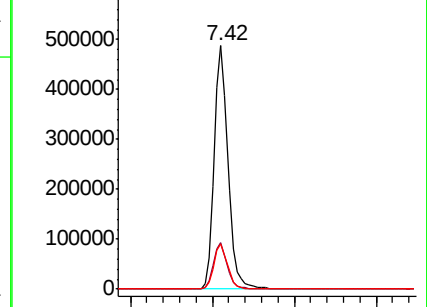
88 18.7 0.0 37.6

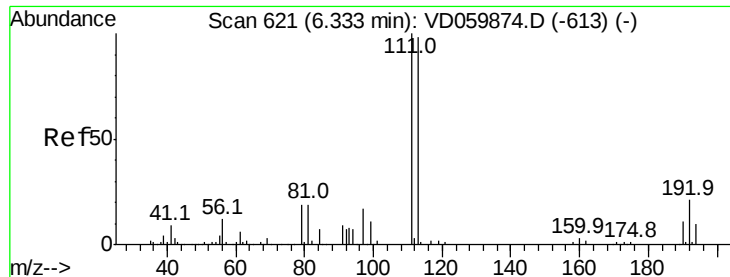


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

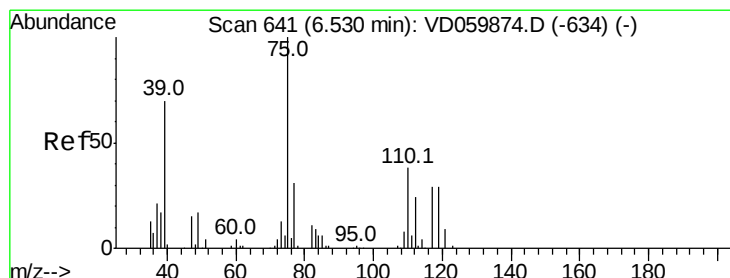
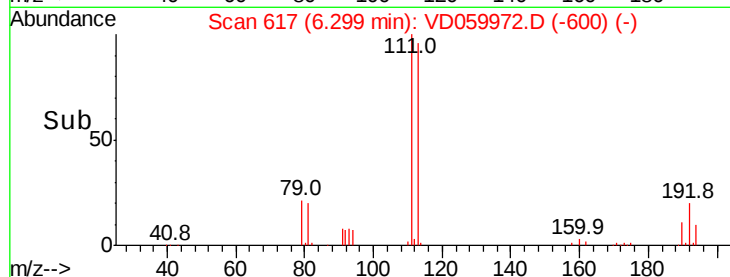
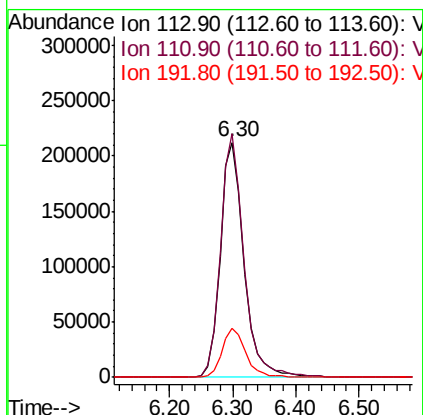
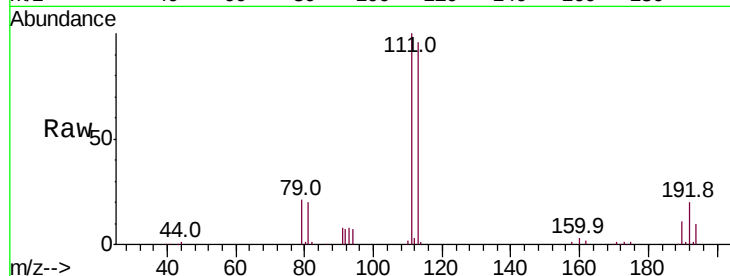




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.30 min Scan# 617  
 Delta R.T. -0.03 min  
 Lab File: VD059972.D  
 Acq: 5 Sep 2018 16:36

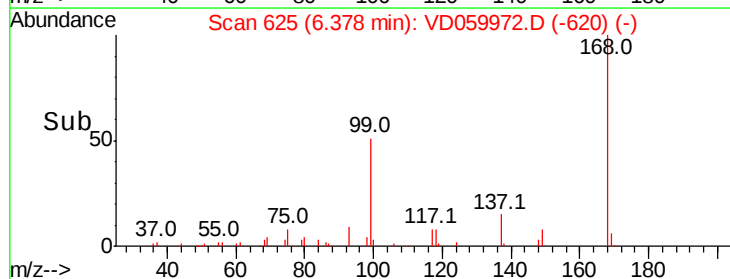
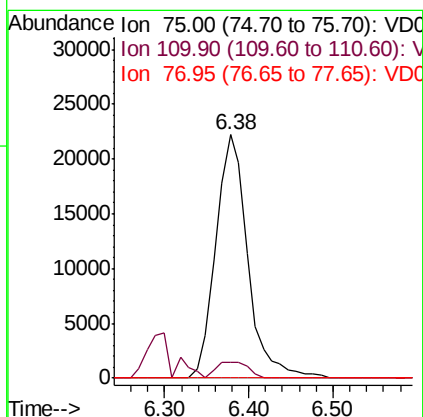
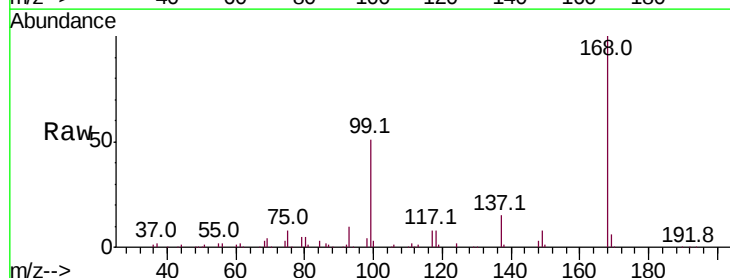
Instrument :  
 MSVOA\_D  
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 AOC10-02-C

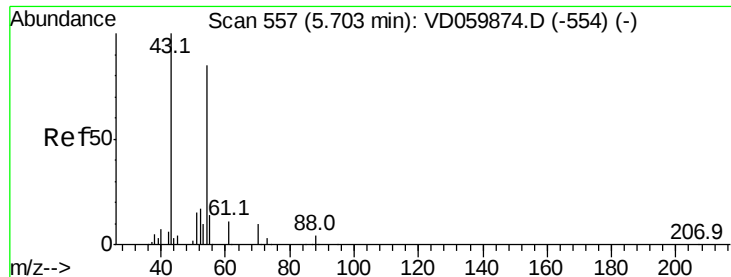
Tot Ion:113 Resp: 554573  
 Ion Ratio Lower Upper  
 113 100  
 111 103.7 81.4 122.2  
 192 20.7 17.0 25.6



#36  
 1,1-Dichloropropene  
 Concen: 5.629 ug/l  
 RT: 6.38 min Scan# 625  
 Delta R.T. -0.15 min  
 Lab File: VD059972.D  
 Acq: 5 Sep 2018 16:36

Tgt Ion: 75 Resp: 58683  
 Ion Ratio Lower Upper  
 75 100  
 110 6.3 18.6 56.0#  
 77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 2.899 ug/l

RT: 5.59 min Scan# 545

Delta R.T. -0.11 min

Lab File: VD059972.D

Acq: 5 Sep 2018 16:36

Instrument :

MSVOA\_D

ClientSampleId :

AOC10-02-C

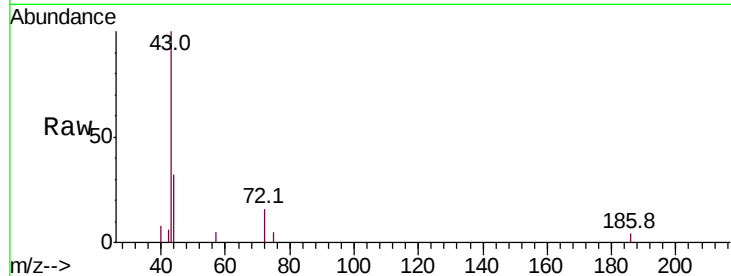
Tot Ion: 43 Resp: 23517

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.6#

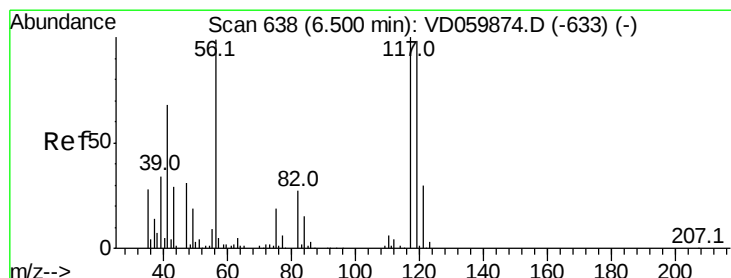
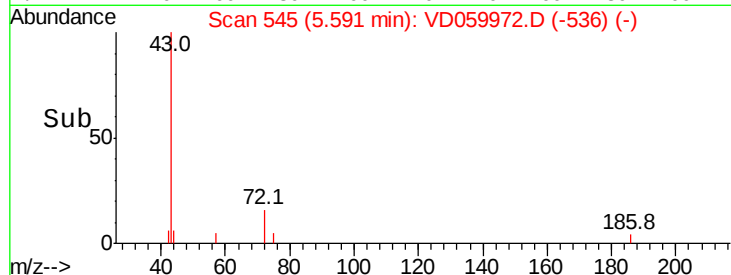
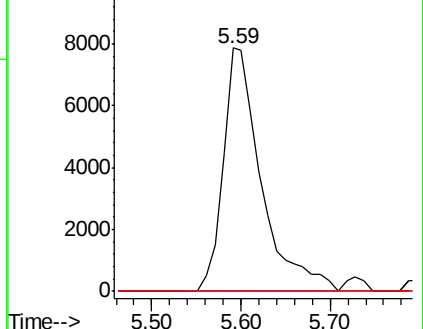
70 0.0 5.7 8.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 5.888 ug/l

RT: 6.38 min Scan# 625

Delta R.T. -0.12 min

Lab File: VD059972.D

Acq: 5 Sep 2018 16:36

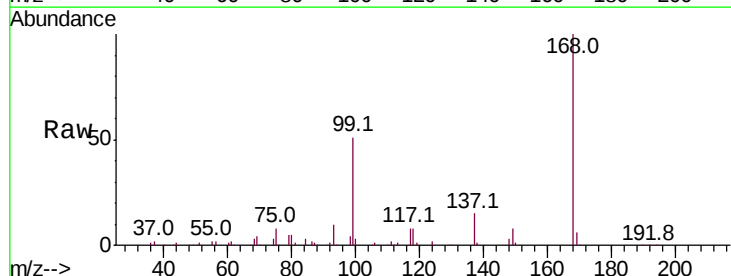
Tgt Ion: 117 Resp: 61944

Ion Ratio Lower Upper

117 100

119 6.0 77.2 115.8#

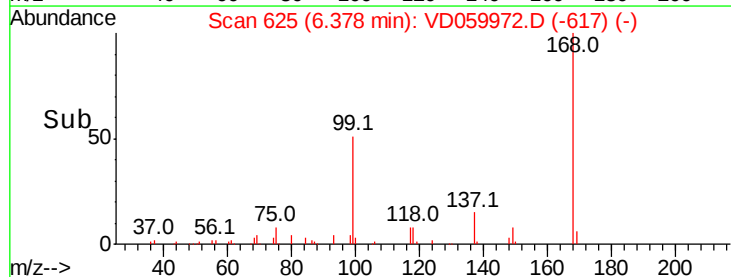
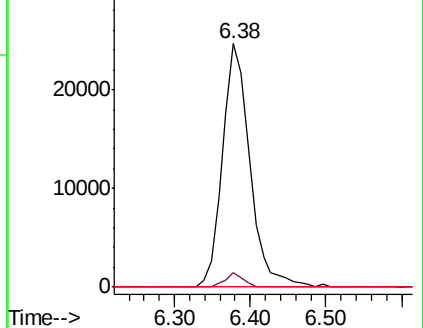
121 0.0 24.0 36.0#

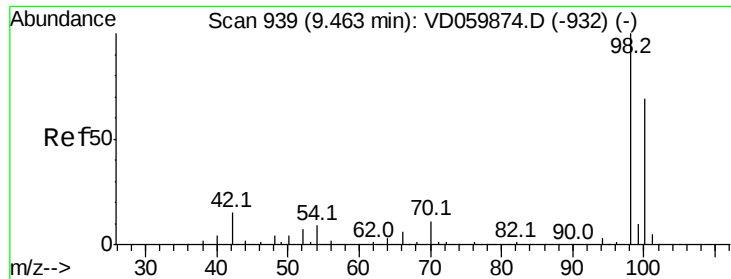


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

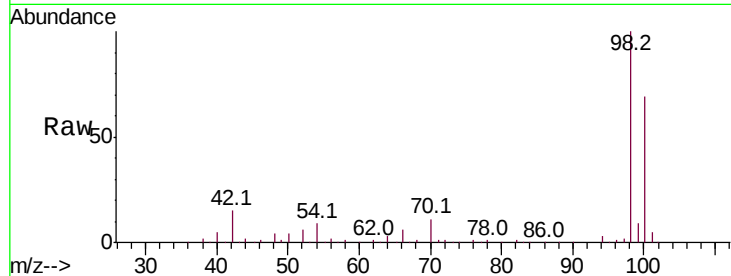




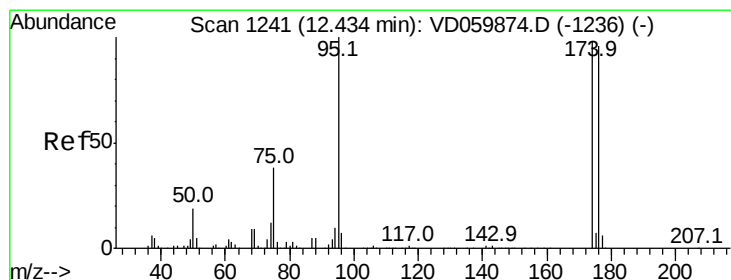
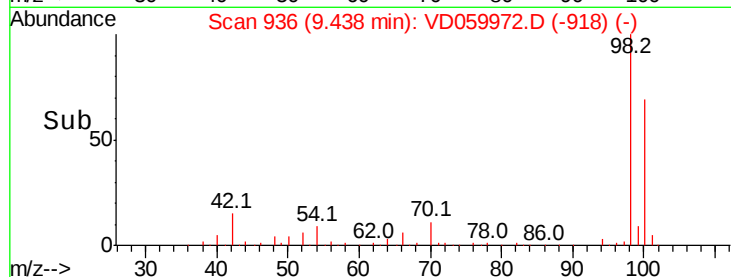
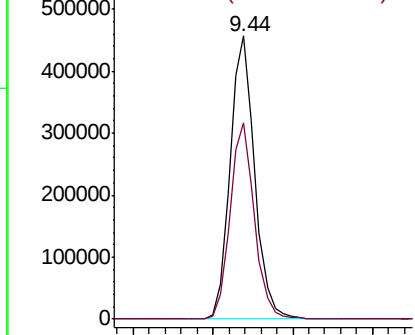
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.44 min Scan# 936  
Delta R.T. -0.02 min  
Lab File: VD059972.D  
Acq: 5 Sep 2018 16:36

Instrument :  
MSVOA\_D  
ClientSampleId :  
AOC10-02-C

Tot Ion: 98 Resp: 983228  
Ion Ratio Lower Upper  
98 100  
100 69.2 55.8 83.6

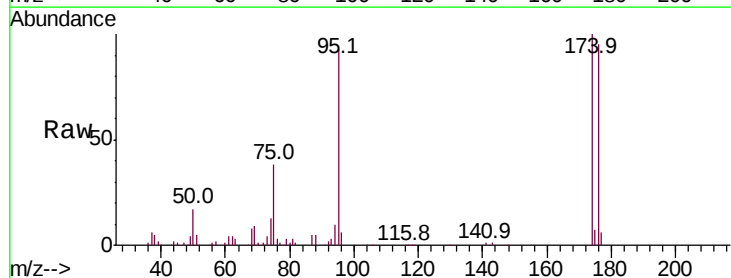


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

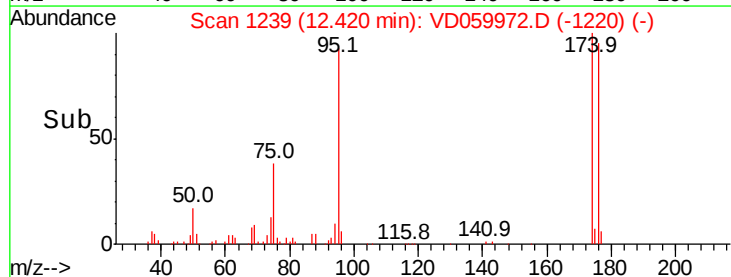
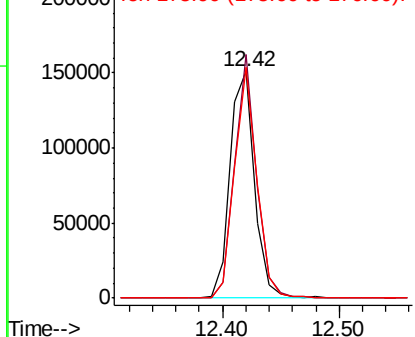


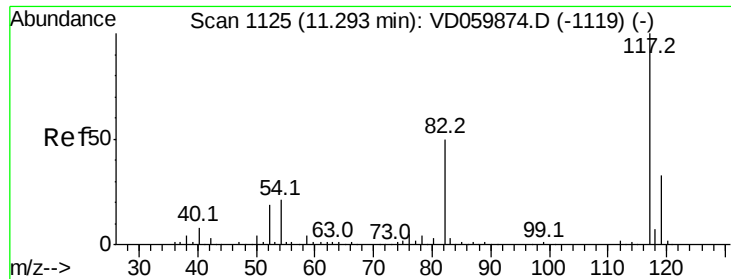
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.42 min Scan# 1239  
Delta R.T. -0.01 min  
Lab File: VD059972.D  
Acq: 5 Sep 2018 16:36

Tgt Ion: 95 Resp: 219050  
Ion Ratio Lower Upper  
95 100  
174 107.4 0.0 195.6  
176 102.0 0.0 191.2



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

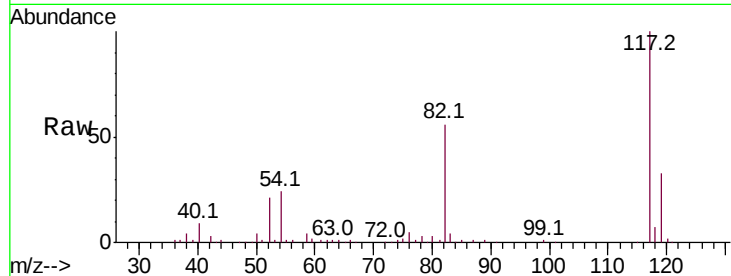




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.27 min Scan# 1122  
Delta R.T. -0.02 min  
Lab File: VD059972.D  
Acq: 5 Sep 2018 16:36

Instrument :  
MSVOA\_D  
ClientSampleId :  
AOC10-02-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.0  | 40.1  | 60.1  |
| 119     | 32.9  | 26.7  | 40.1  |

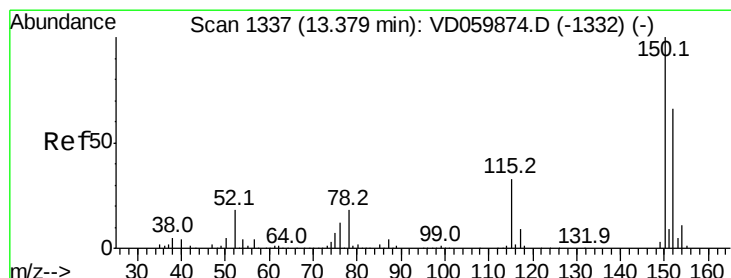
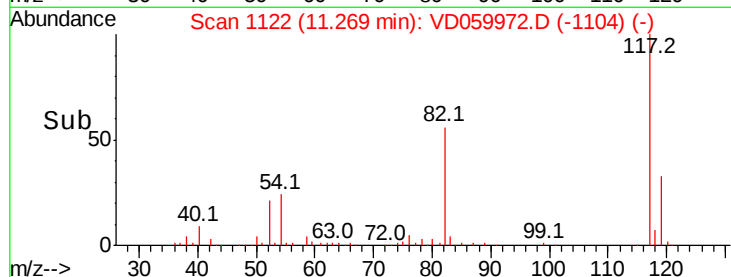
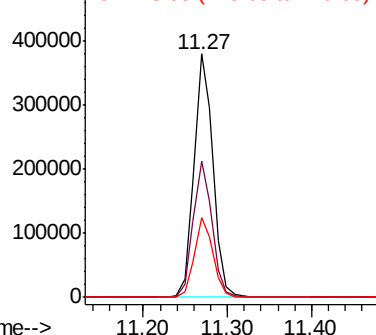


Abundance

Ion 116.95 (116.65 to 117.65): V

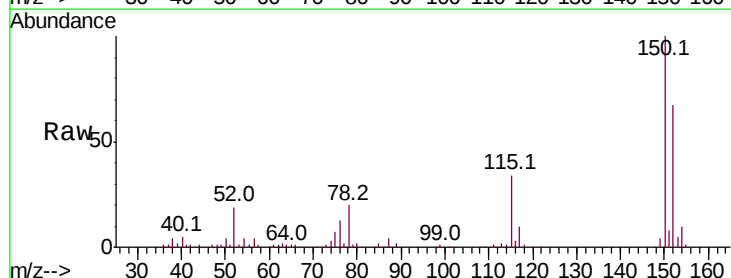
Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.36 min Scan# 1335  
Delta R.T. -0.01 min  
Lab File: VD059972.D  
Acq: 5 Sep 2018 16:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 50.7  | 25.7  | 77.0  |
| 150     | 149.6 | 0.0   | 310.2 |

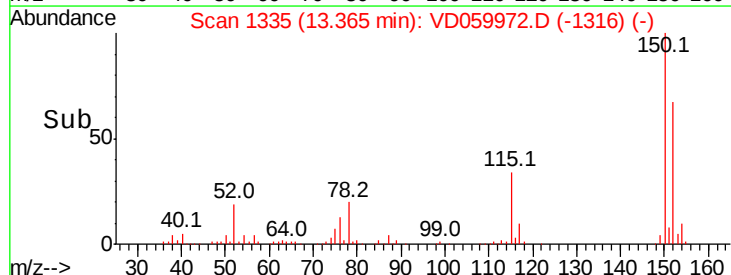
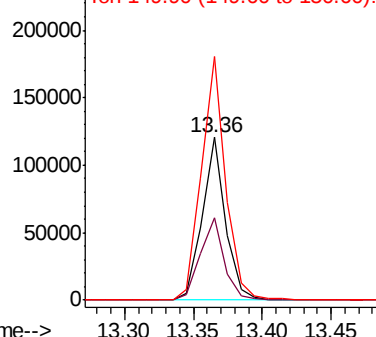


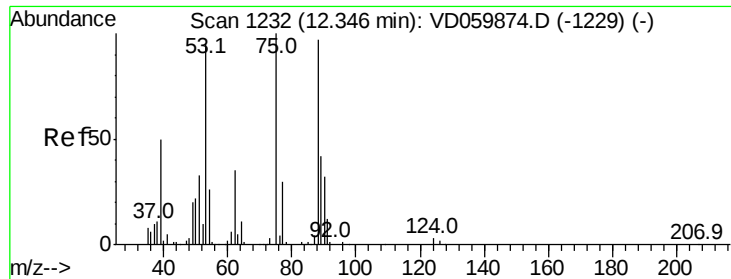
Abundance

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: 136.765 ug/l

RT: 12.42 min Scan# 1239

Delta R.T. 0.07 min

Lab File: VD059972.D

Acq: 5 Sep 2018 16:36

Instrument :

MSVOA\_D

ClientSampleId :

AOC10-02-C

Tot Ion: 75 Resp: 92917

Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.6#

89 0.0 33.6 50.4#

