

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080819\  
 Data File : VD063458.D  
 Acq On : 9 Aug 2019 2:03  
 Operator : JC/SY  
 Sample : K4223-24  
 Misc : 3.70g/5ml/MSVOA D/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SP-12

Quant Time: Aug 09 07:03:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.07  | 168  | 15541    | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 25972    | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 18338    | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 7856     | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |          |       |         |      |
|---------------------------|-------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.46  | 65  | 12912    | 74.88 | ug/l    | 0.02 |
| Spiked Amount             |       |     | Recovery | =     | 149.76% |      |
| 35) Dibromofluoromethane  | 6.93  | 113 | 6181     | 27.87 | ug/l    | 0.02 |
| Spiked Amount             |       |     | Recovery | =     | 55.74%  |      |
| 50) Toluene-d8            | 10.42 | 98  | 15529    | 31.29 | ug/l    | 0.02 |
| Spiked Amount             |       |     | Recovery | =     | 62.58%  |      |
| 62) 4-Bromofluorobenzene  | 13.56 | 95  | 8258     | 36.52 | ug/l    | 0.00 |
| Spiked Amount             |       |     | Recovery | =     | 73.04%  |      |

## Target Compounds

|                                |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 3) Chloromethane               | 1.75  | 50  | 697   | 4.722   | ug/l # | 46     |
| 4) Vinyl Chloride              | 1.86  | 62  | 194   | 1.270   | ug/l # | 45     |
| 5) Bromomethane                | 2.16  | 94  | 1571  | 20.387  | ug/l # | 12     |
| 6) Chloroethane                | 2.24  | 64  | 818   | 11.596  | ug/l # | 45     |
| 12) 1,1-Dichloroethene         | 3.10  | 96  | 307   | 2.547   | ug/l # | 1      |
| 13) Acrolein                   | 3.05  | 56  | 272   | 37.347  | ug/l # | 1      |
| 14) Allyl chloride             | 3.45  | 41  | 645   | 3.359   | ug/l # | 11     |
| 16) Acetone                    | 3.24  | 43  | 11147 | 331.771 | ug/l   | 98     |
| 18) Methyl Acetate             | 3.65  | 43  | 609   | 9.436   | ug/l # | 60     |
| 20) Methylene Chloride         | 3.84  | 84  | 530   | 3.903   | ug/l # | 50     |
| 23) Vinyl Acetate              | 5.13  | 43  | 265   | 1.124   | ug/l # | 82     |
| 25) 2-Butanone                 | 6.08  | 43  | 2866  | 84.997  | ug/l # | 56     |
| 29) Tetrahydrofuran            | 6.49  | 42  | 234   | 14.658  | ug/l # | 34     |
| 36) 1,1-Dichloropropene        | 7.07  | 75  | 1818  | 7.670   | ug/l # | 44     |
| 37) Ethyl Acetate              | 6.19  | 43  | 549   | 5.156   | ug/l # | 70     |
| 38) Carbon Tetrachloride       | 7.05  | 117 | 897   | 2.514   | ug/l # | 11     |
| 41) Methacrylonitrile          | 6.57  | 41  | 210   | 1.649   | ug/l # | 40     |
| 43) Isopropyl Acetate          | 9.28  | 43  | 180   | 1.323   | ug/l # | 49     |
| 46) Dibromomethane             | 8.92  | 93  | 193   | 1.838   | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 10.30 | 43  | 436   | 4.713   | ug/l # | 42     |
| 52) Toluene                    | 10.52 | 92  | 491   | 1.486   | ug/l # | 1      |
| 56) Ethyl methacrylate         | 11.07 | 69  | 190   | 1.555   | ug/l # | 13     |
| 59) 2-Hexanone                 | 11.54 | 43  | 220   | 3.300   | ug/l # | 31     |
| 61) 1,2-Dibromoethane          | 11.84 | 107 | 193   | 1.402   | ug/l # | 1      |
| 64) Tetrachloroethene          | 11.26 | 164 | 196   | 1.342   | ug/l # | 1      |
| 74) N-amyl acetate             | 13.28 | 43  | 428   | 3.284   | ug/l # | 53     |
| 79) 2-Chlorotoluene            | 13.95 | 91  | 475   | 1.397   | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75  | 3503  | 133.692 | ug/l # | 3      |
| 82) 4-Chlorotoluene            | 13.95 | 91  | 475   | 1.187   | ug/l # | 41     |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105 | 556   | 1.264   | ug/l # | 34     |
| 85) sec-Butylbenzene           | 14.24 | 105 | 556   | 1.087   | ug/l # | 61     |
| 86) p-Isopropyltoluene         | 14.50 | 119 | 2213  | 4.532   | ug/l # | 65     |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146 | 343   | 1.379   | ug/l # | 40     |
| 88) 1,4-Dichlorobenzene        | 14.55 | 146 | 380   | 1.511   | ug/l # | 31     |

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Instrument :  
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Quant Time: Aug 09 07:03:42 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:04:50 2019  
Response via : Initial Calibration

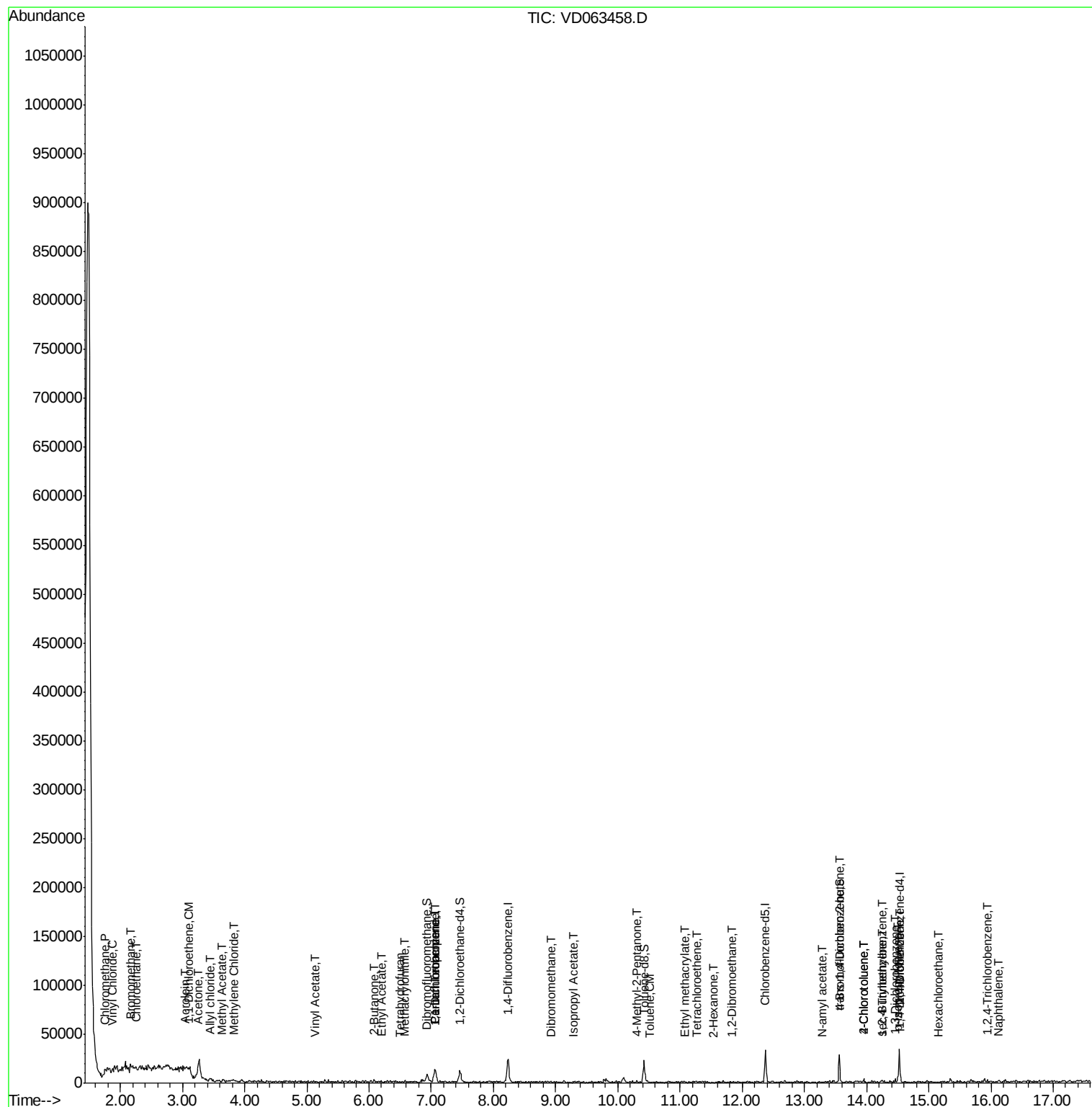
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|-------|------|----------|--------|--------|----------|
| 90) Hexachloroethane       | 15.15 | 117  | 185      | 1.454  | ug/l # | 14       |
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 262      | 1.524  | ug/l # | 11       |
| 95) Naphthalene            | 16.13 | 128  | 2501     | 10.292 | ug/l # | 70       |

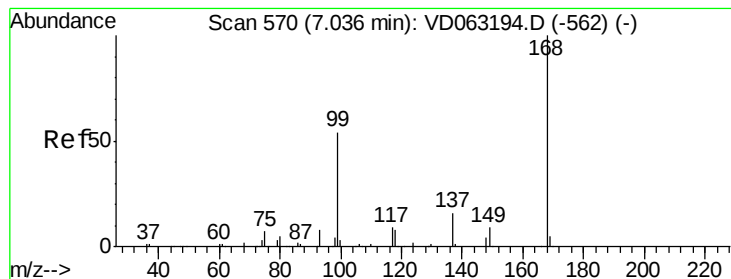
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.03 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

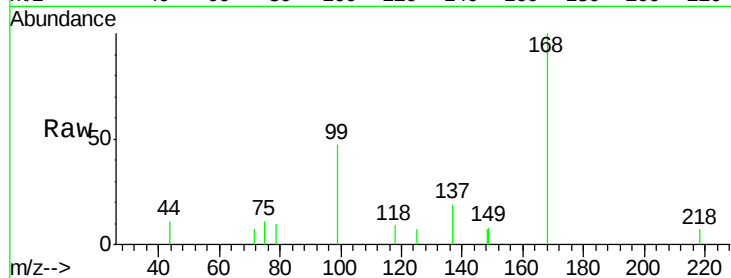
SP-12

Tot Ion:168 Resp: 15541

Ion Ratio Lower Upper

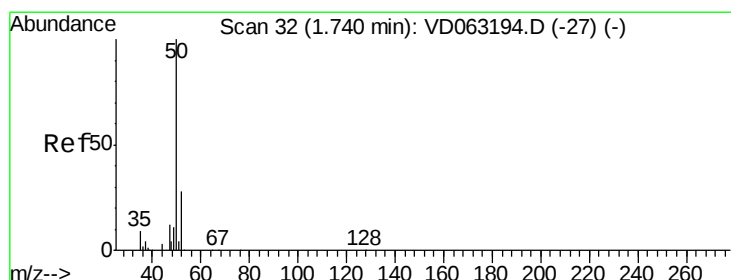
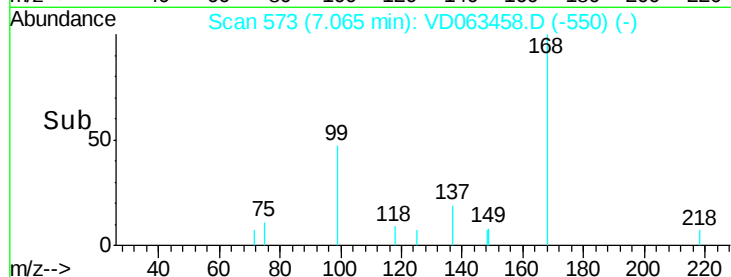
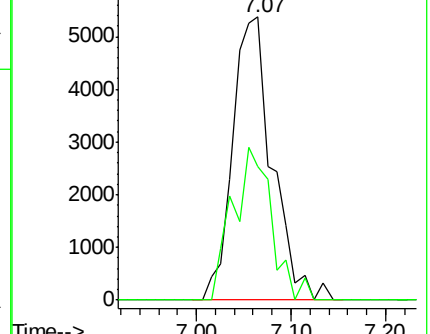
168 100

99 47.0 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 4.722 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063458.D

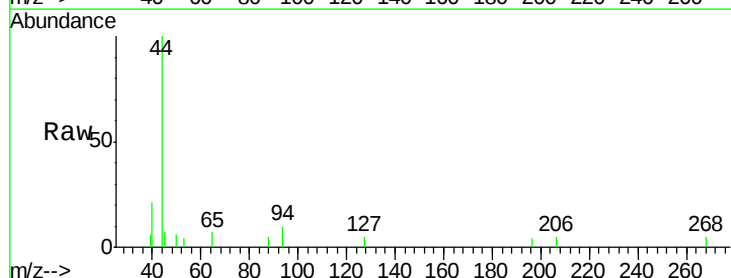
Acq: 9 Aug 2019 2:03

Tgt Ion: 50 Resp: 697

Ion Ratio Lower Upper

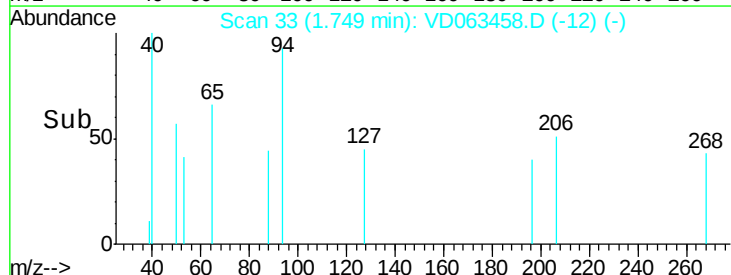
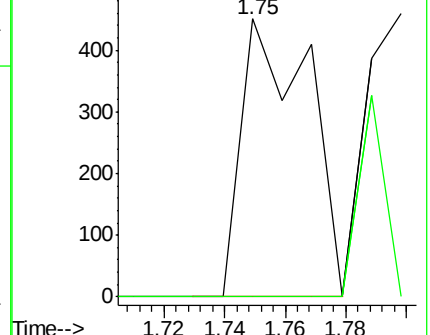
50 100

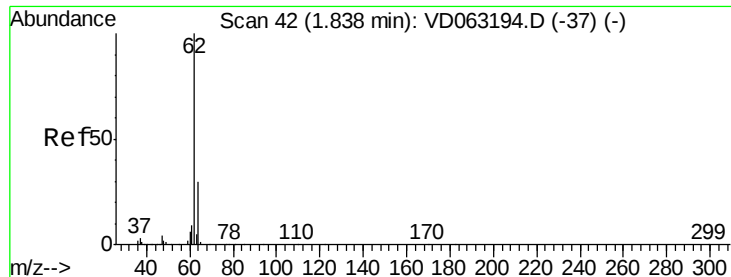
52 0.0 22.6 34.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#4

Vinyl Chloride

Concen: 1.270 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.02 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleID :

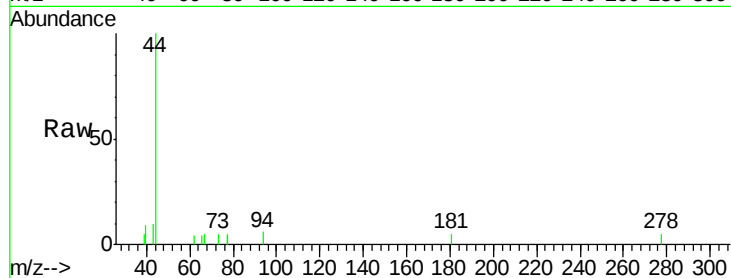
SP-12

Tot Ion: 62 Resp: 194

Ion Ratio Lower Upper

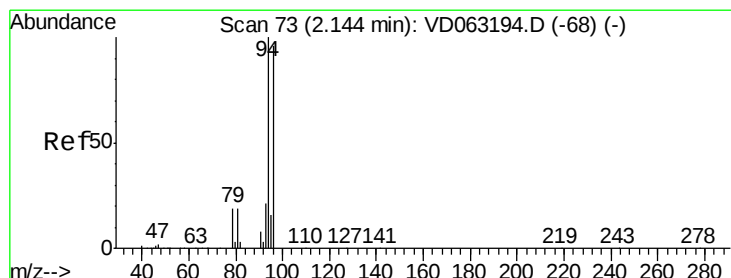
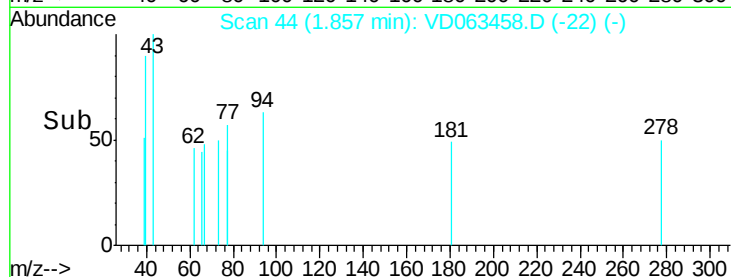
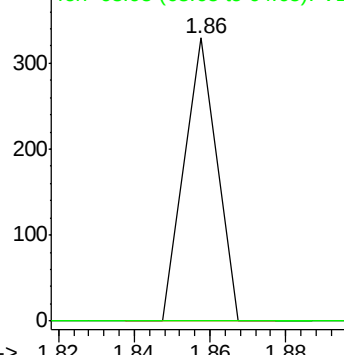
62 100

64 0.0 24.1 36.1#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC



#5

Bromomethane

Concen: 20.387 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

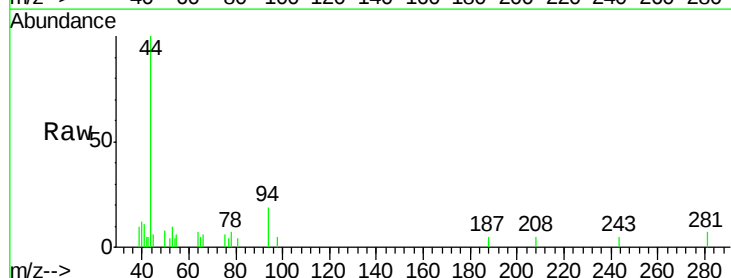
Tgt Ion: 94 Resp: 1571

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

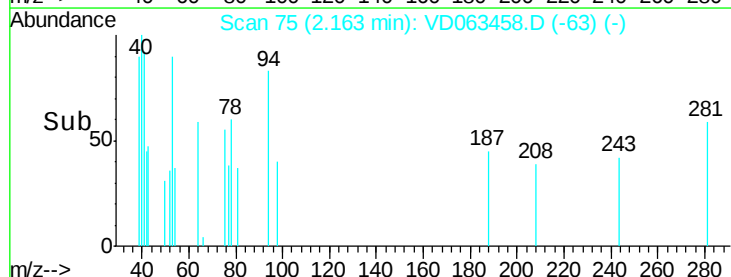
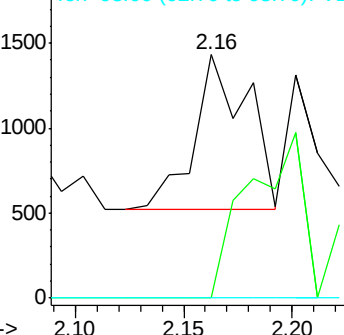
93 0.0 17.3 25.9#

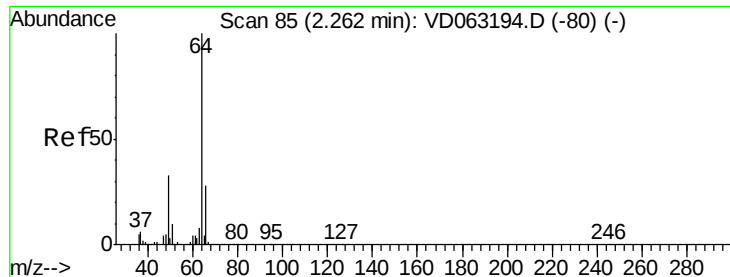


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#6

Chloroethane

Concen: 11.596 ug/l

RT: 2.24 min Scan# 83

Delta R.T. -0.02 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

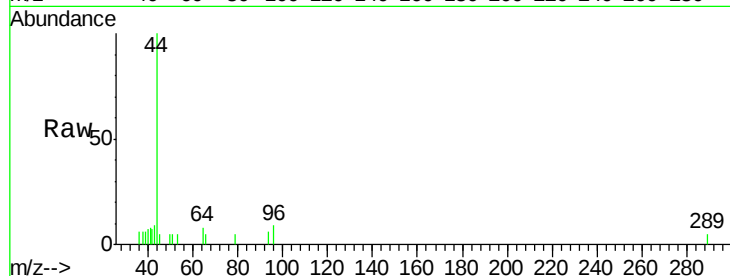
SP-12

Tot Ion: 64 Resp: 818

Ion Ratio Lower Upper

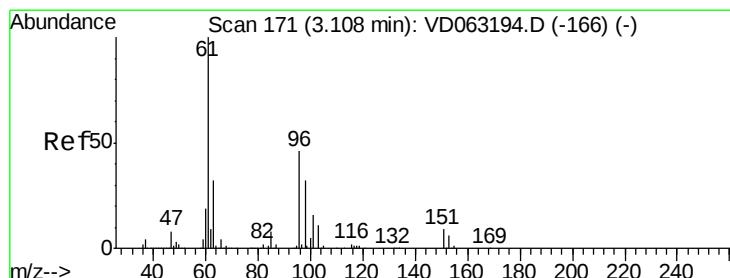
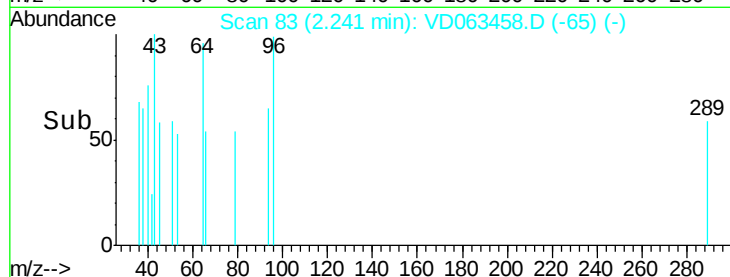
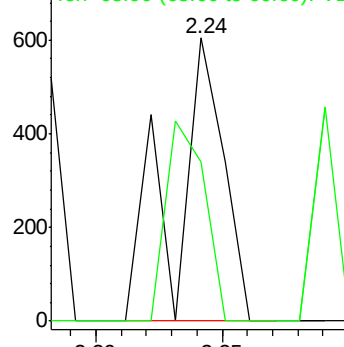
64 100

66 56.3 22.2 33.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#12

1,1-Dichloroethene

Concen: 2.547 ug/l

RT: 3.10 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

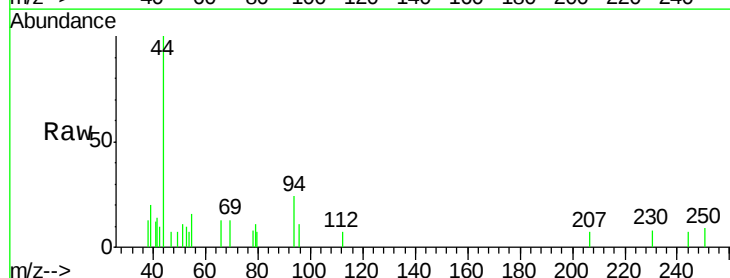
Tgt Ion: 96 Resp: 307

Ion Ratio Lower Upper

96 100

61 0.0 173.7 260.5#

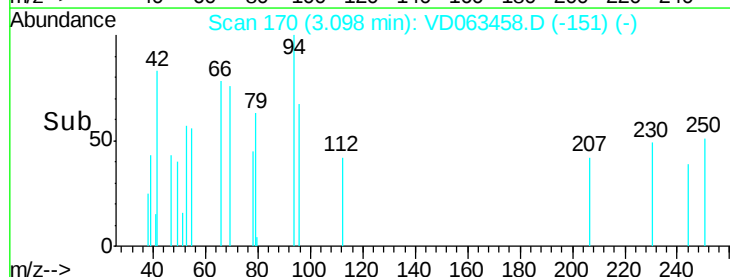
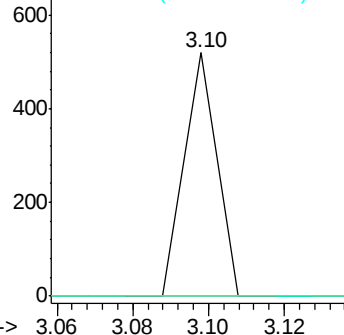
98 0.0 55.8 83.8#

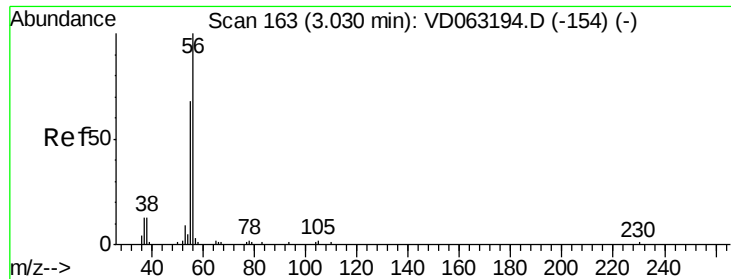


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 37.347 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.02 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

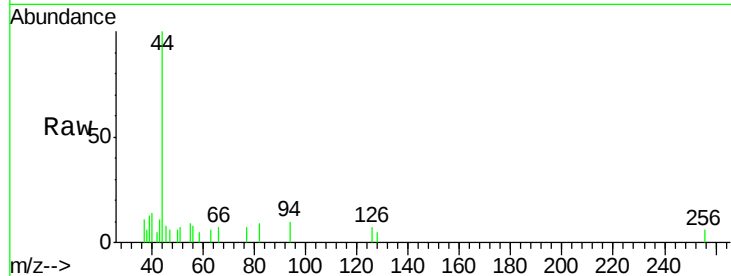
SP-12

Tot Ion: 56 Resp: 272

Ion Ratio Lower Upper

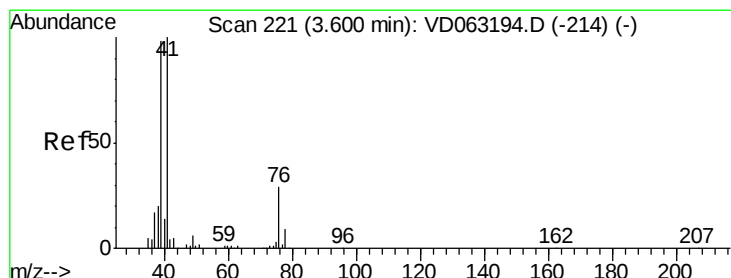
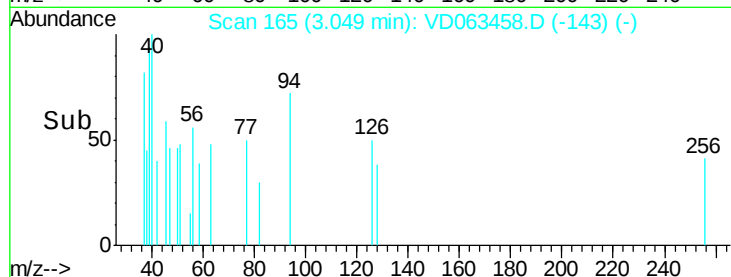
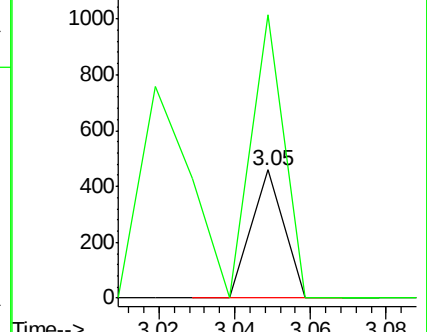
56 100

55 220.2 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 3.359 ug/l

RT: 3.45 min Scan# 206

Delta R.T. -0.15 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

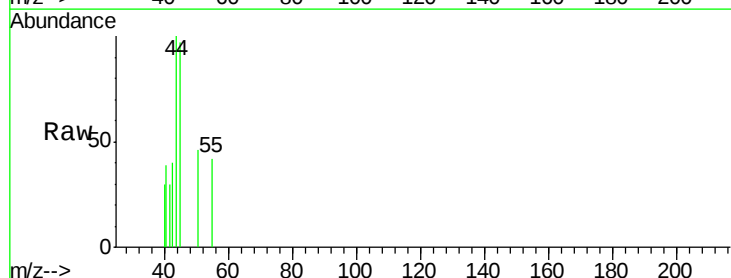
Tgt Ion: 41 Resp: 645

Ion Ratio Lower Upper

41 100

39 0.0 78.6 117.8#

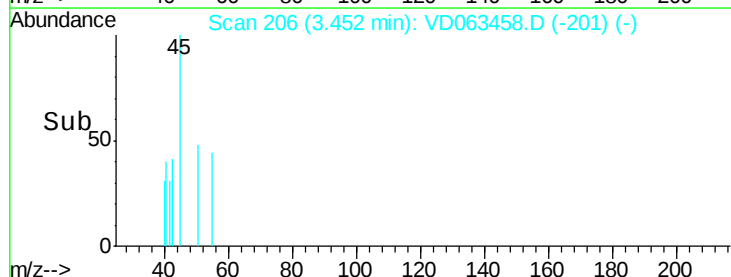
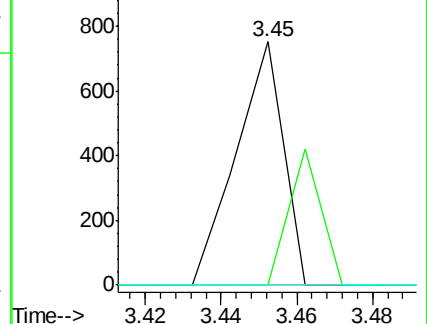
76 0.0 24.5 36.7#

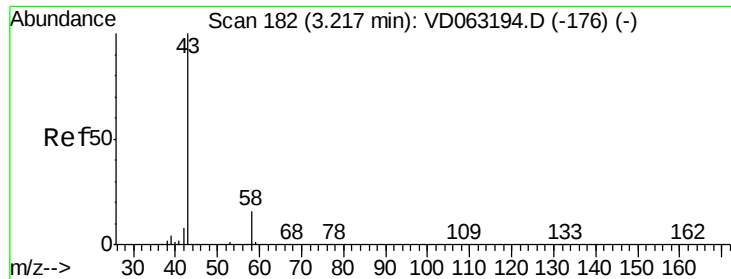


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#16

Acetone

Concen: 331.771 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

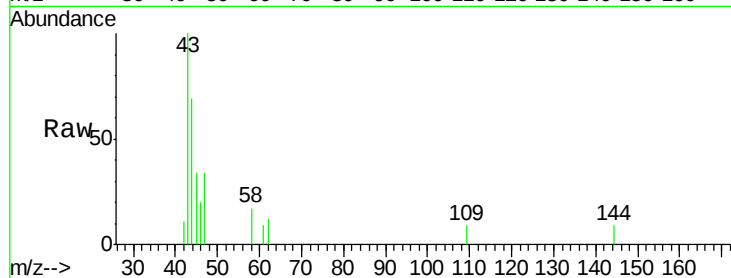
SP-12

Tot Ion: 43 Resp: 11147

Ion Ratio Lower Upper

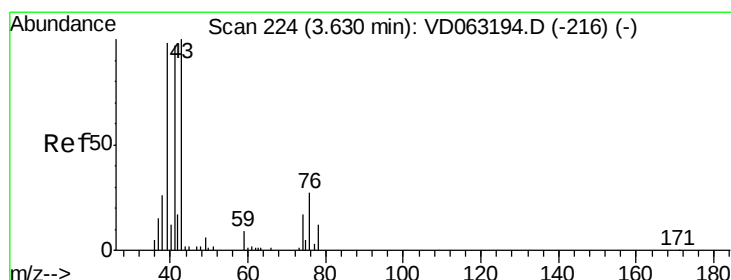
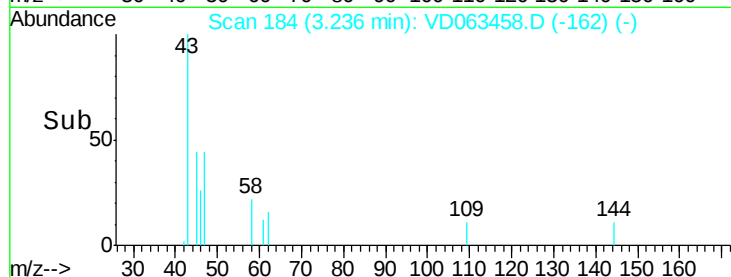
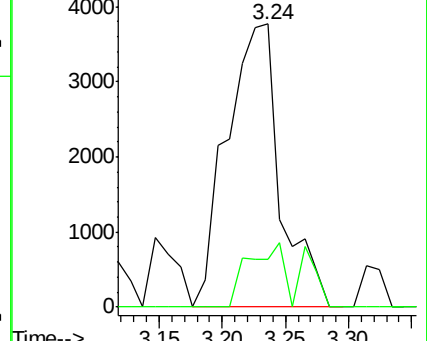
43 100

58 16.8 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 9.436 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.02 min

Lab File: VD063458.D

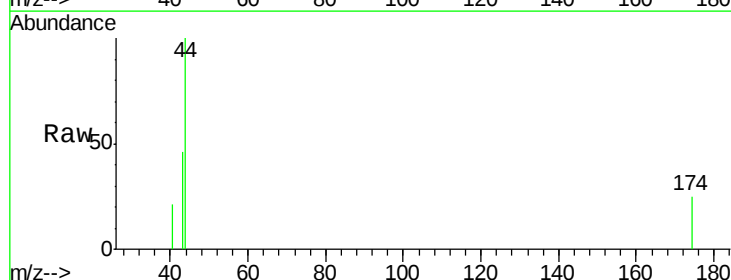
Acq: 9 Aug 2019 2:03

Tgt Ion: 43 Resp: 609

Ion Ratio Lower Upper

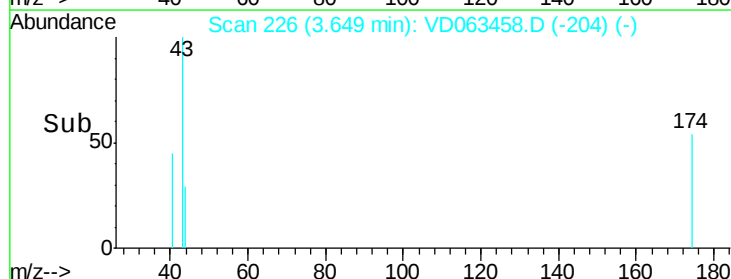
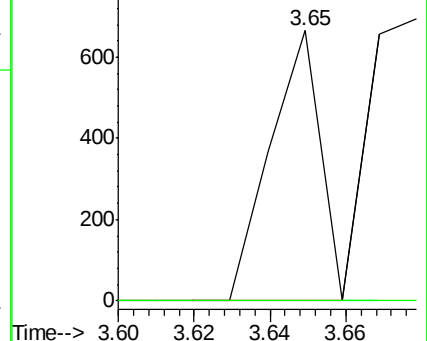
43 100

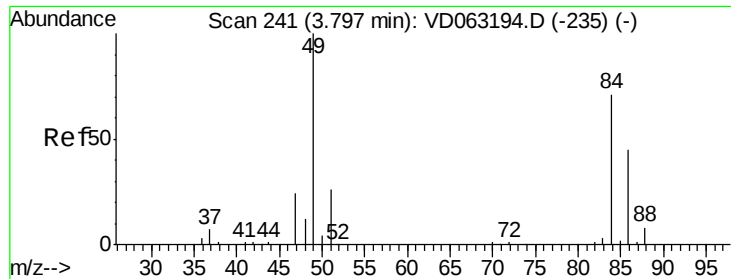
74 0.0 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

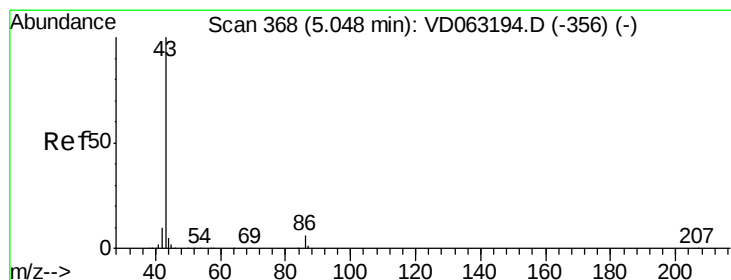
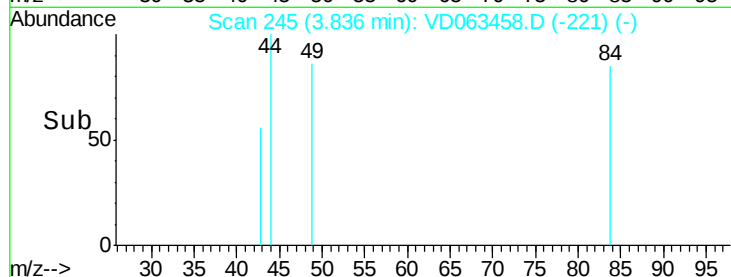
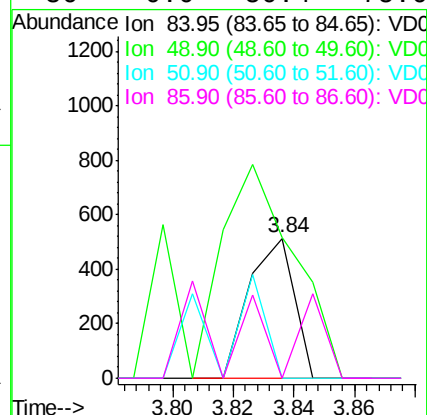
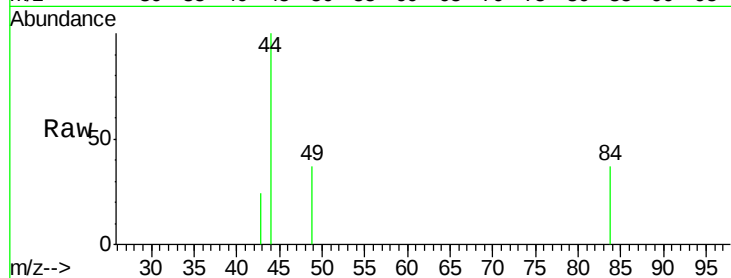




#20  
Methylene Chloride  
Concen: 3.903 ug/l  
RT: 3.84 min Scan# 245  
Delta R.T. 0.04 min  
Lab File: VD063458.D  
Acq: 9 Aug 2019 2:03

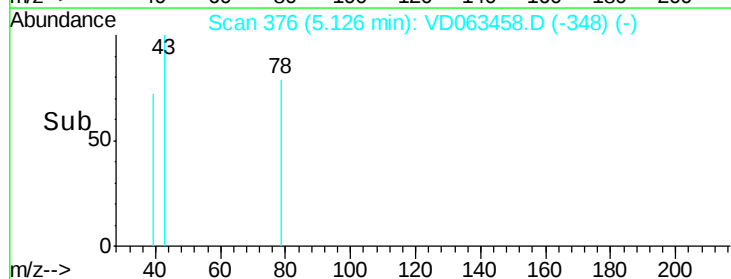
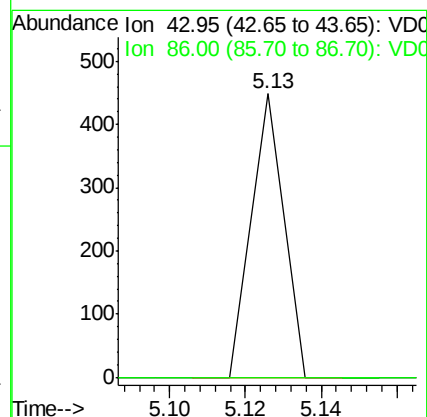
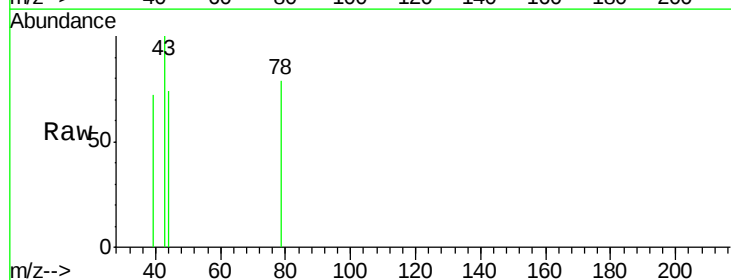
Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-12

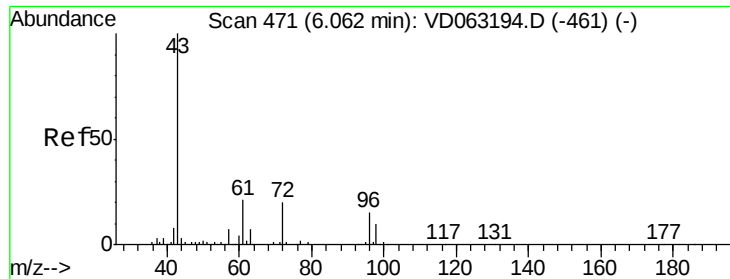
Tot Ion: 84 Resp: 530  
Ion Ratio Lower Upper  
84 100  
49 100.8 112.5 168.7#  
51 0.0 29.6 44.4#  
86 0.0 50.4 75.6#



#23  
Vinyl Acetate  
Concen: 1.124 ug/l  
RT: 5.13 min Scan# 376  
Delta R.T. 0.08 min  
Lab File: VD063458.D  
Acq: 9 Aug 2019 2:03

Tgt Ion: 43 Resp: 265  
Ion Ratio Lower Upper  
43 100  
86 0.0 4.9 7.3#





#25

2-Butanone

Concen: 84.997 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampled :

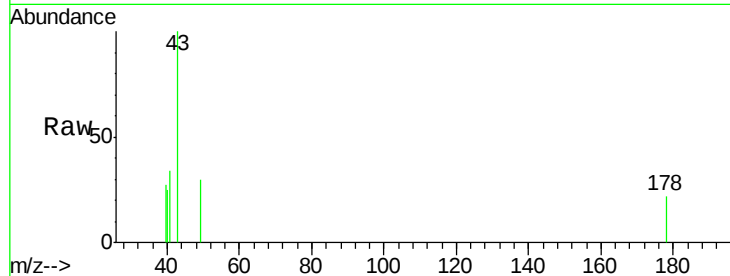
SP-12

Tot Ion: 43 Resp: 2866

Ion Ratio Lower Upper

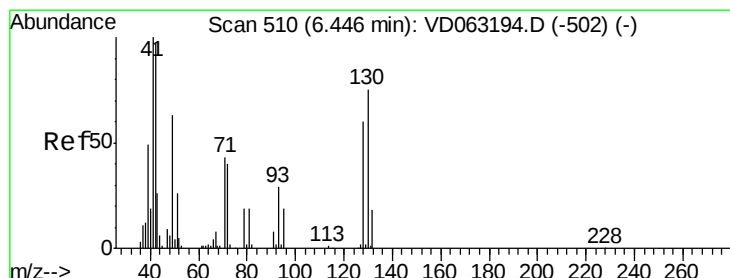
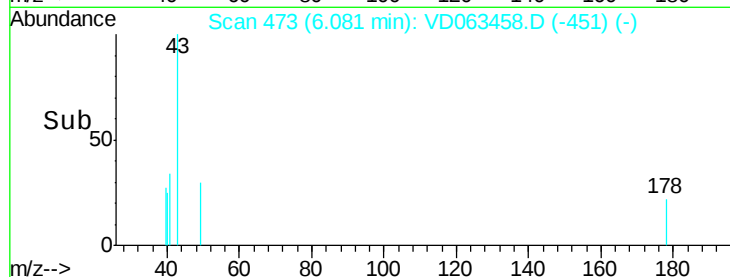
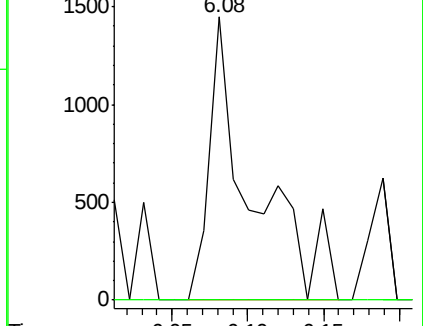
43 100

72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 14.658 ug/l

RT: 6.49 min Scan# 515

Delta R.T. 0.05 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

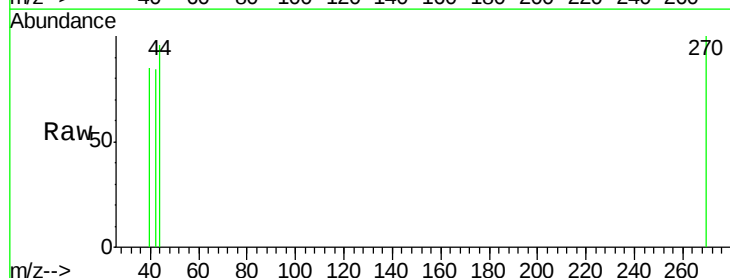
Tgt Ion: 42 Resp: 234

Ion Ratio Lower Upper

42 100

72 81.6 33.4 50.2#

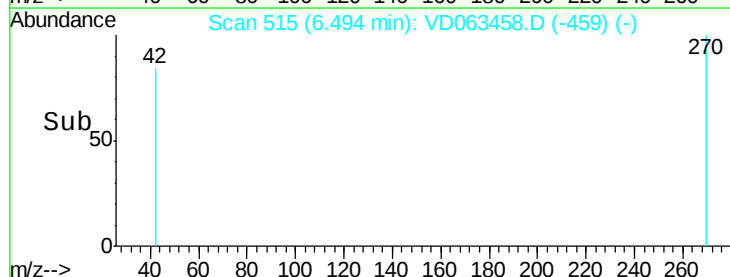
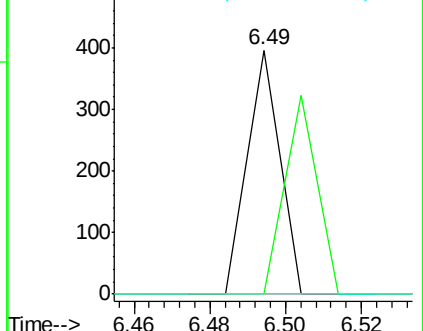
71 0.0 35.7 53.5#

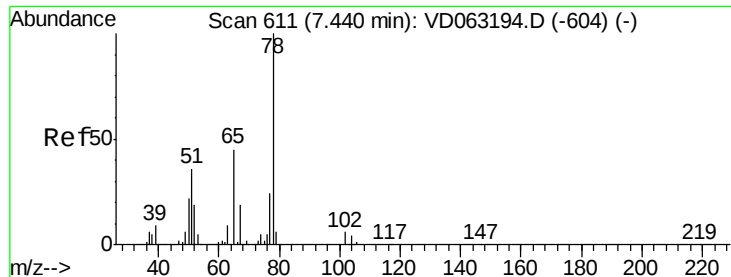


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 74.877 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

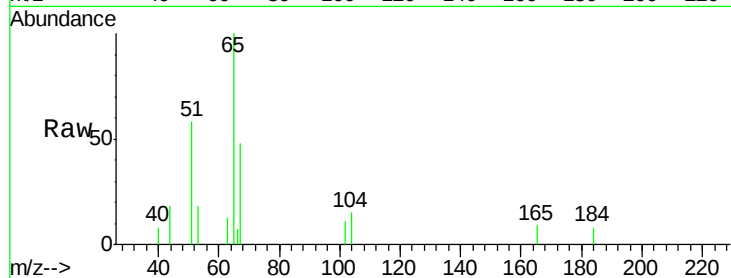
SP-12

Tot Ion: 65 Resp: 12912

Ion Ratio Lower Upper

65 100

67 47.9 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

4000

3000

2000

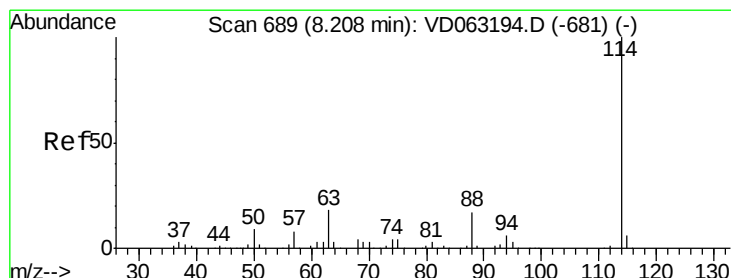
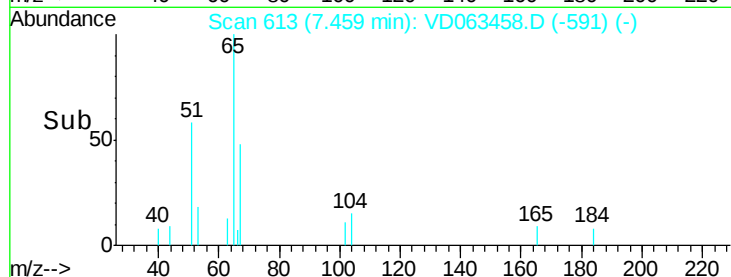
1000

0

7.40

7.50

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 692

Delta R.T. 0.03 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

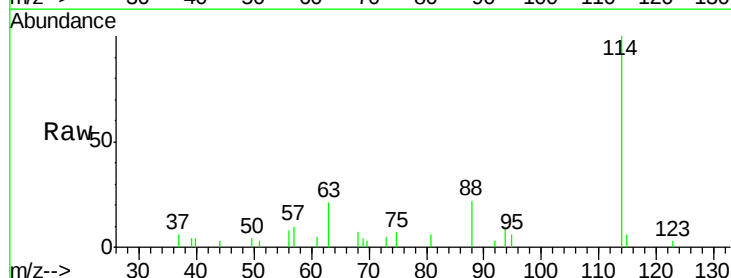
Tgt Ion: 114 Resp: 25972

Ion Ratio Lower Upper

114 100

63 21.3 0.0 35.2

88 22.2 0.0 34.6



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

8.24

10000

5000

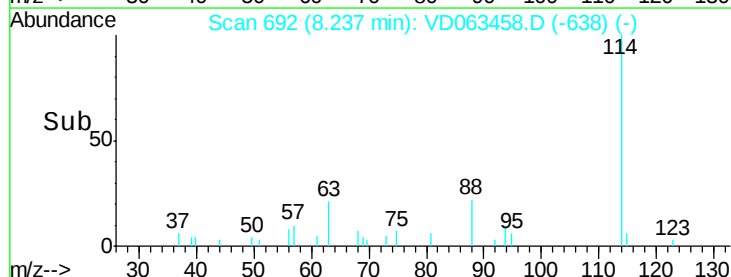
0

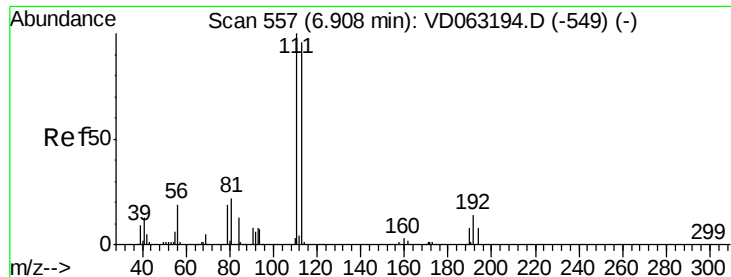
8.10

8.20

8.30

Time-->





#35

Dibromofluoromethane

Concen: 27.874 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.02 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

SP-12

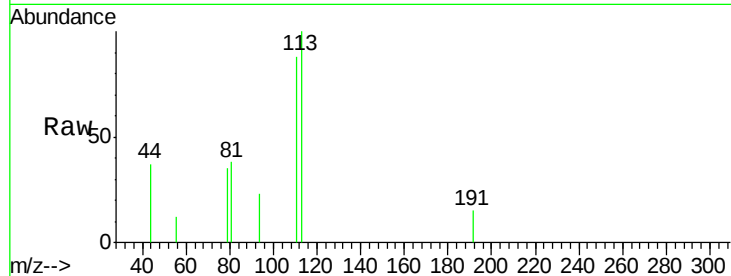
Tot Ion:113 Resp: 6181

Ion Ratio Lower Upper

113 100

111 87.8 83.2 124.8

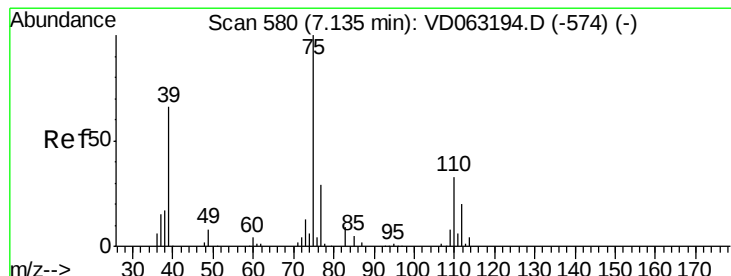
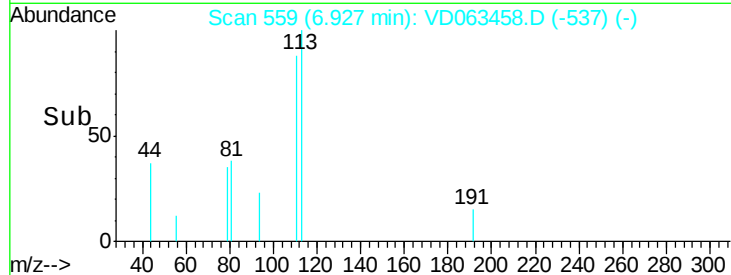
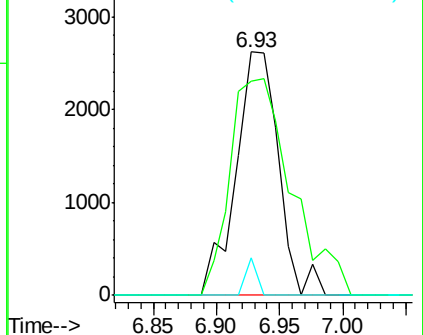
192 15.2 11.8 17.8



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: 7.670 ug/l

RT: 7.07 min Scan# 574

Delta R.T. -0.06 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

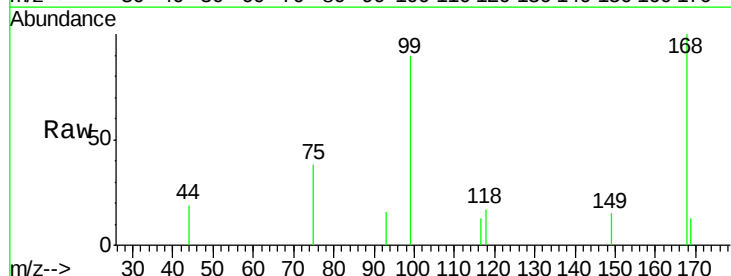
Tgt Ion: 75 Resp: 1818

Ion Ratio Lower Upper

75 100

110 0.0 16.1 48.2#

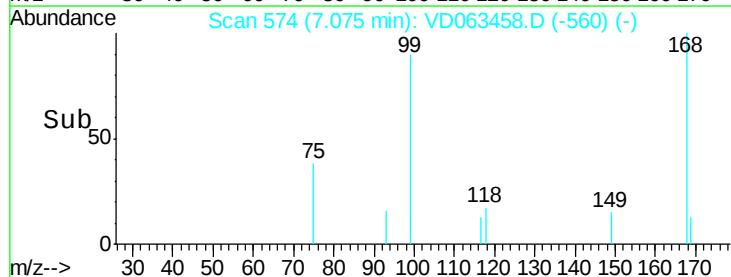
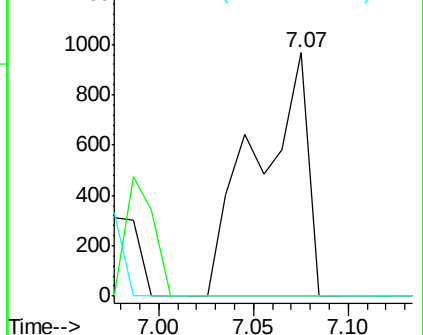
77 0.0 22.7 34.1#

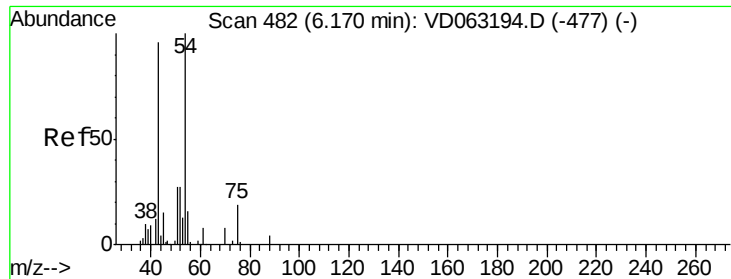


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

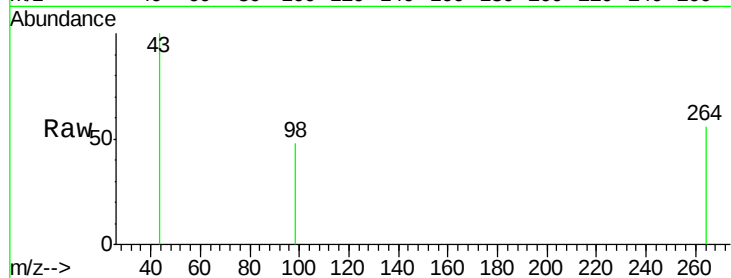




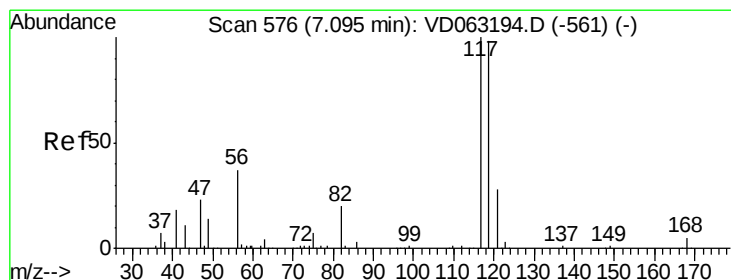
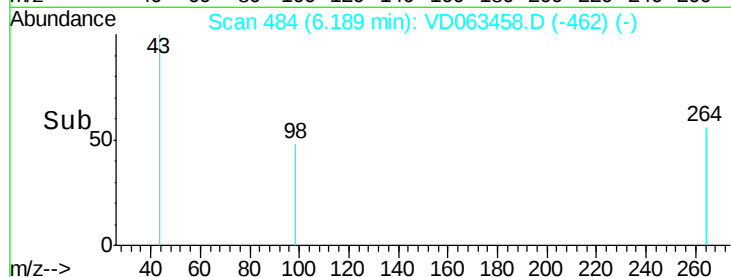
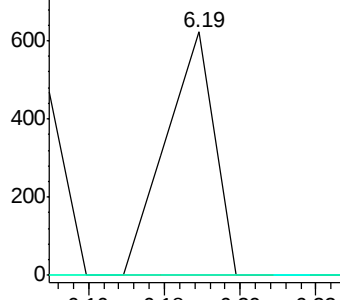
#37  
Ethyl Acetate  
Concen: 5.156 ug/l  
RT: 6.19 min Scan# 484  
Delta R.T. 0.02 min  
Lab File: VD063458.D  
Acq: 9 Aug 2019 2:03

Instrument :  
MSVOA\_D  
ClientSampleID :  
SP-12

Tot Ion: 43 Resp: 549  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.3 16.9#  
70 0.0 5.1 7.7#

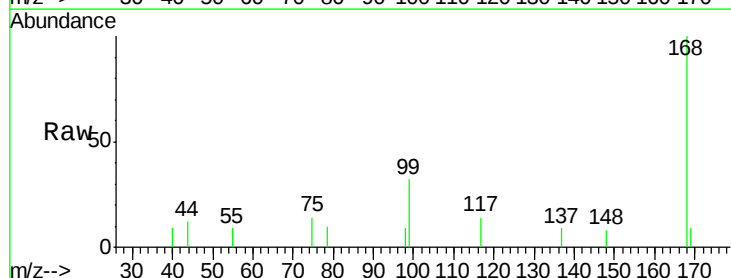


Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 70.00 (69.70 to 70.70): VDC

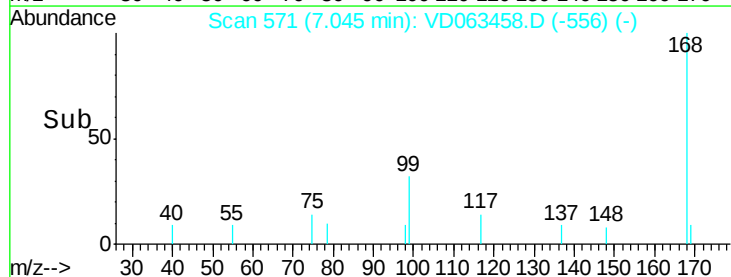
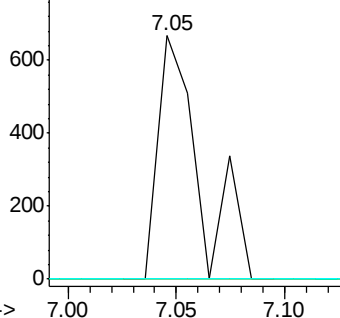


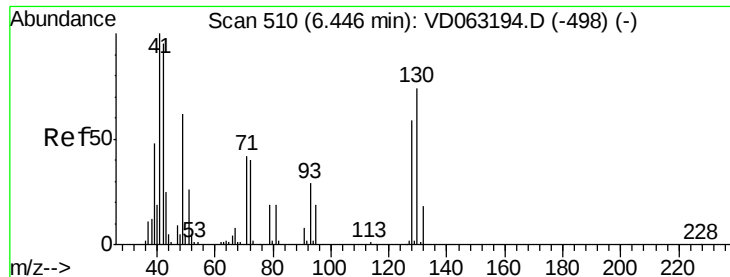
#38  
Carbon Tetrachloride  
Concen: 2.514 ug/l  
RT: 7.05 min Scan# 571  
Delta R.T. -0.05 min  
Lab File: VD063458.D  
Acq: 9 Aug 2019 2:03

Tgt Ion: 117 Resp: 897  
Ion Ratio Lower Upper  
117 100  
119 0.0 78.2 117.2#  
121 0.0 22.1 33.1#



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

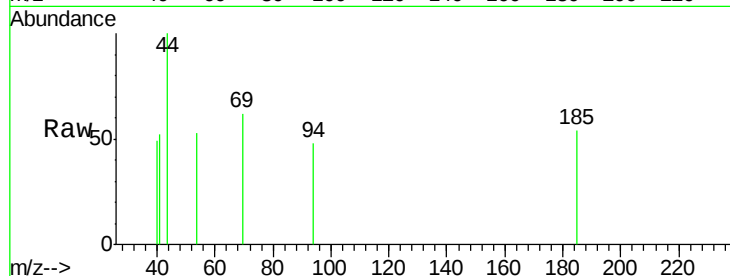




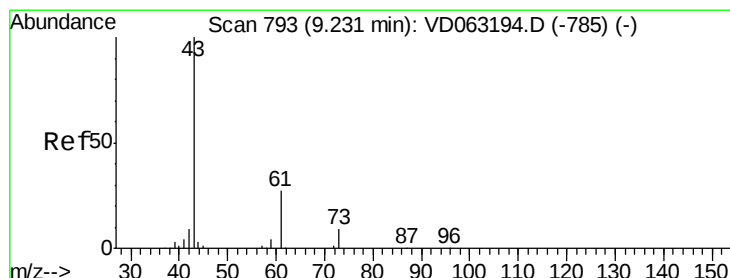
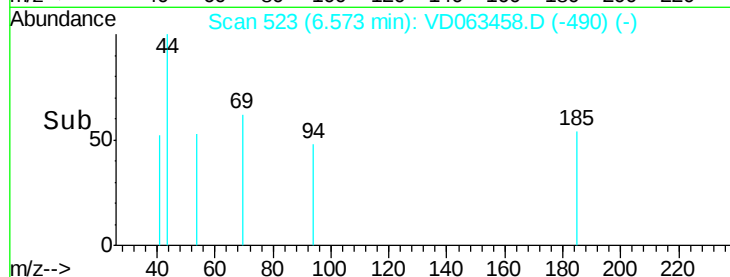
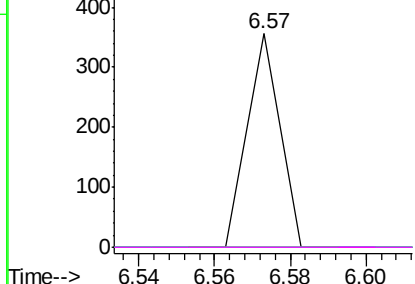
#41  
Methacrylonitrile  
Concen: 1.649 ug/l  
RT: 6.57 min Scan# 523  
Delta R.T. 0.13 min  
Lab File: VD063458.D  
Acq: 9 Aug 2019 2:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-12

Tot Ion: 41 Resp: 210  
Ion Ratio Lower Upper  
41 100  
39 0.0 38.4 57.6#  
67 0.0 6.7 10.1#  
52 0.0 4.3 6.5#

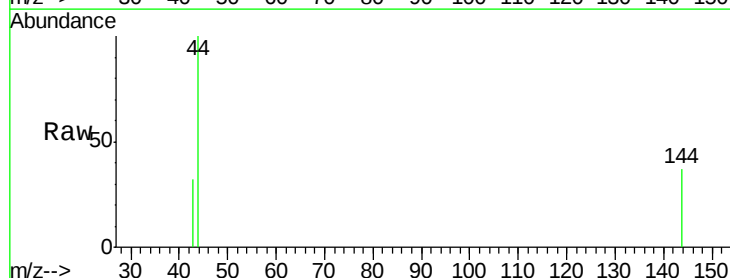


Abundance Ion 40.95 (40.65 to 41.65): VDC  
Ion 38.95 (38.65 to 39.65): VDC  
Ion 67.00 (66.70 to 67.70): VDC  
Ion 52.00 (51.70 to 52.70): VDC

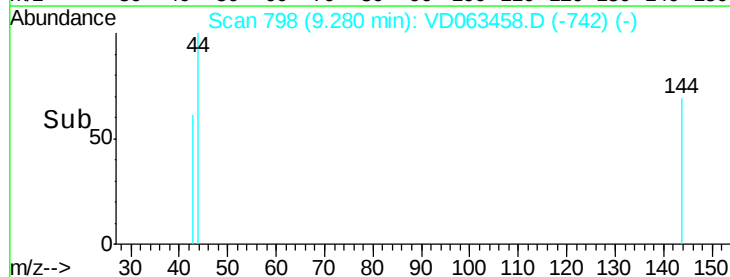
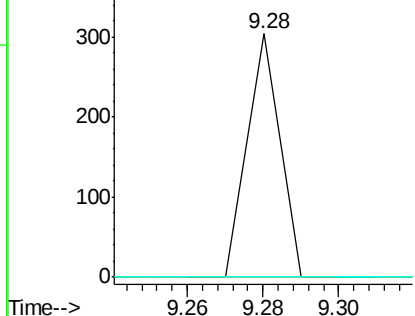


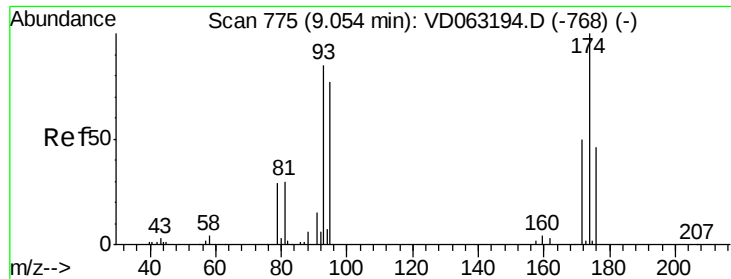
#43  
Isopropyl Acetate  
Concen: 1.323 ug/l  
RT: 9.28 min Scan# 798  
Delta R.T. 0.05 min  
Lab File: VD063458.D  
Acq: 9 Aug 2019 2:03

Tgt Ion: 43 Resp: 180  
Ion Ratio Lower Upper  
43 100  
61 0.0 21.4 32.0#  
87 0.0 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 87.00 (86.70 to 87.70): VDC

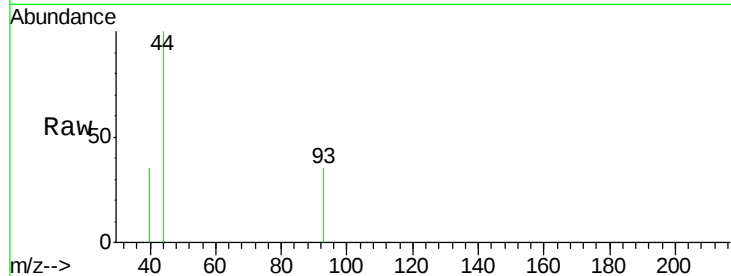




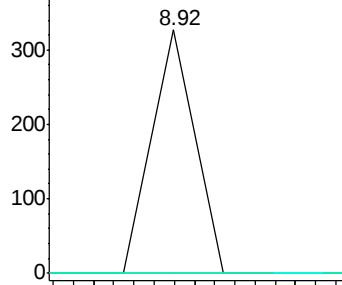
#46  
Dibromomethane  
Concen: 1.838 ug/l  
RT: 8.92 min Scan# 761  
Delta R.T. -0.14 min  
Lab File: VD063458.D  
Acq: 9 Aug 2019 2:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-12

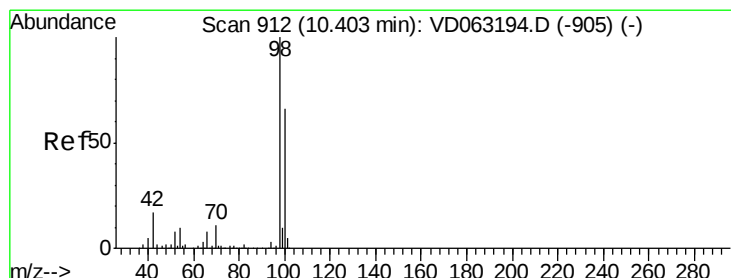
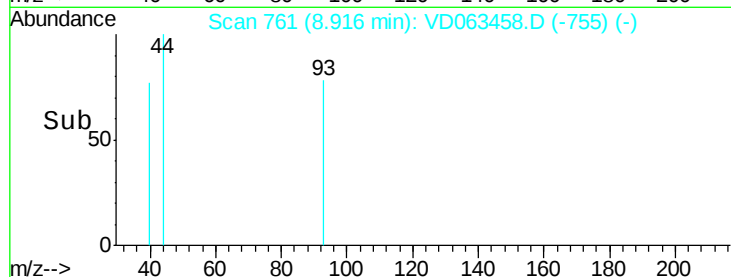
Tot Ion: 93 Resp: 193  
Ion Ratio Lower Upper  
93 100  
95 0.0 72.8 109.2#  
174 0.0 94.4 141.6#



Abundance Ion 92.90 (92.60 to 93.60): VDC  
Ion 94.90 (94.60 to 95.60): VDC  
Ion 173.80 (173.50 to 174.50): V

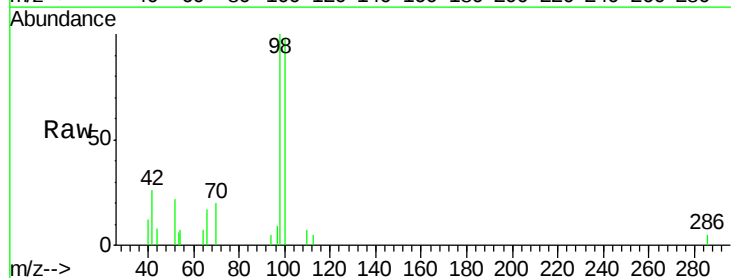


Time-->

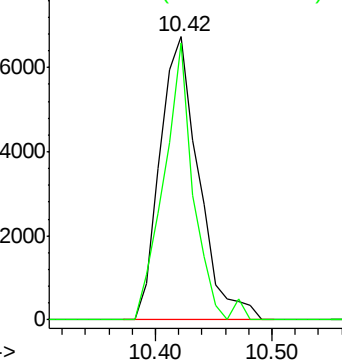


#50  
Toluene-d8  
Concen: 31.292 ug/l  
RT: 10.42 min Scan# 914  
Delta R.T. 0.02 min  
Lab File: VD063458.D  
Acq: 9 Aug 2019 2:03

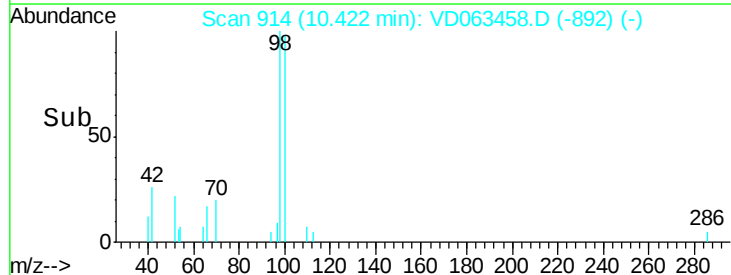
Tgt Ion: 98 Resp: 15529  
Ion Ratio Lower Upper  
98 100  
100 97.9 53.2 79.8#

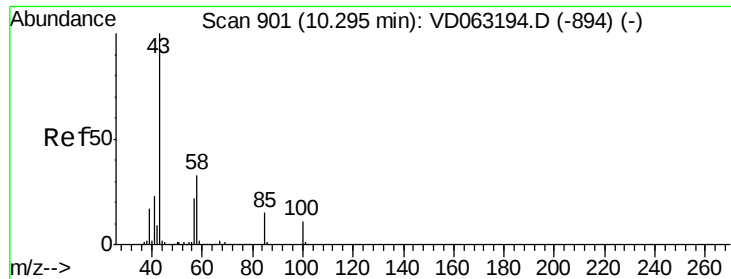


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): V



Time-->

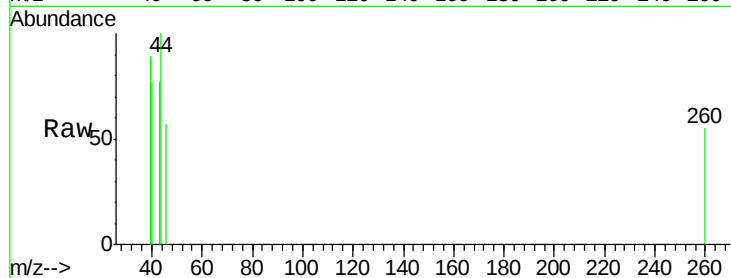




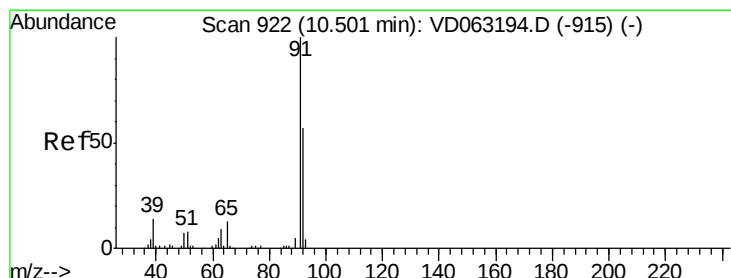
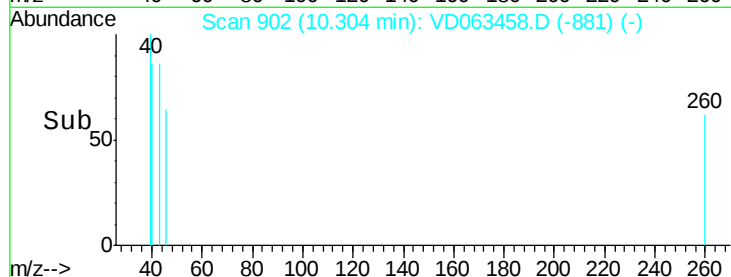
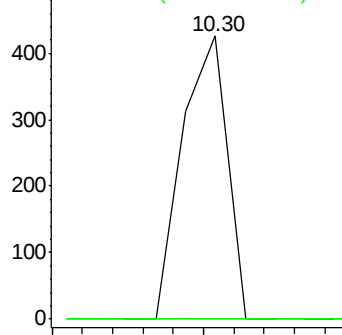
#51  
 4-Methyl-2-Pentanone  
 Concen: 4.713 ug/l  
 RT: 10.30 min Scan# 902  
 Delta R.T. 0.01 min  
 Lab File: VD063458.D  
 Acq: 9 Aug 2019 2:03

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 SP-12

Tot Ion: 43 Resp: 436  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 26.2 39.2#

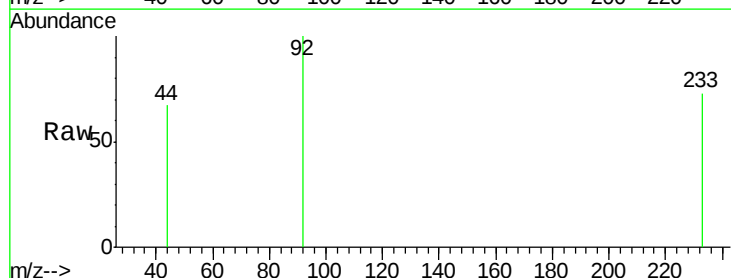


Abundance Ion 42.95 (42.65 to 43.65): VDC  
 Ion 57.95 (57.65 to 58.65): VDC

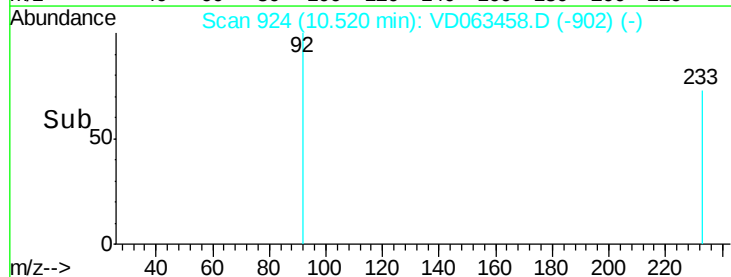
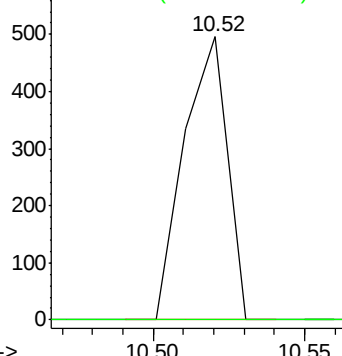


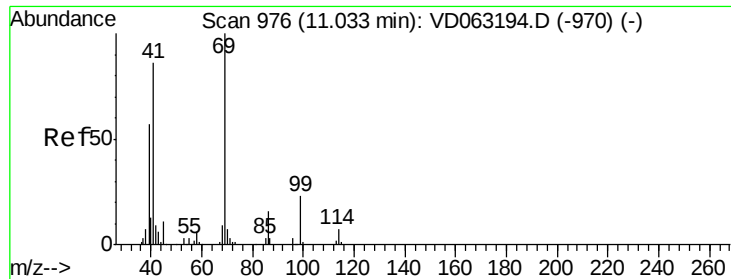
#52  
 Toluene  
 Concen: 1.486 ug/l  
 RT: 10.52 min Scan# 924  
 Delta R.T. 0.02 min  
 Lab File: VD063458.D  
 Acq: 9 Aug 2019 2:03

Tgt Ion: 92 Resp: 491  
 Ion Ratio Lower Upper  
 92 100  
 91 0.0 140.8 211.2#



Abundance Ion 92.00 (91.70 to 92.70): VDC  
 Ion 91.00 (90.70 to 91.70): VDC





#56

Ethyl methacrylate

Concen: 1.555 ug/l

RT: 11.07 min Scan# 980

Delta R.T. 0.04 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

SP-12

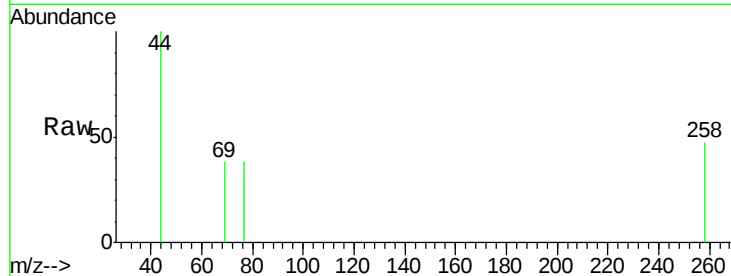
Tot Ion: 69 Resp: 190

Ion Ratio Lower Upper

69 100

41 0.0 68.8 103.2#

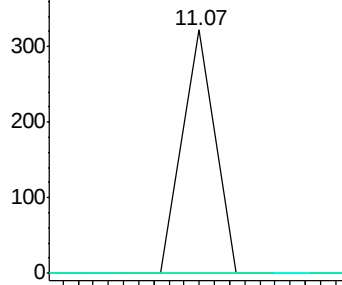
39 0.0 45.8 68.8#



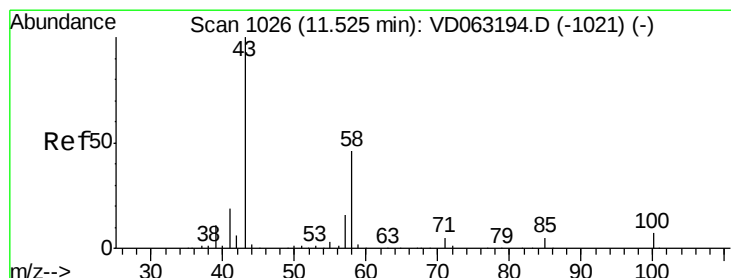
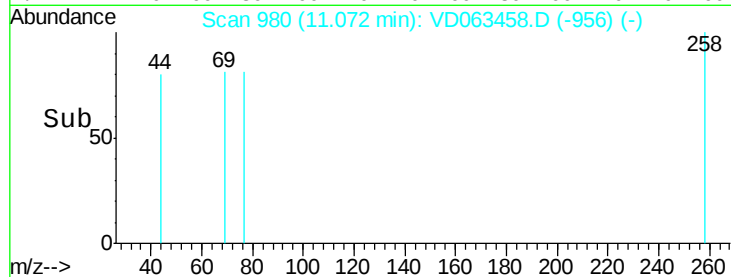
Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC



Time-->



#59

2-Hexanone

Concen: 3.300 ug/l

RT: 11.54 min Scan# 1028

Delta R.T. 0.02 min

Lab File: VD063458.D

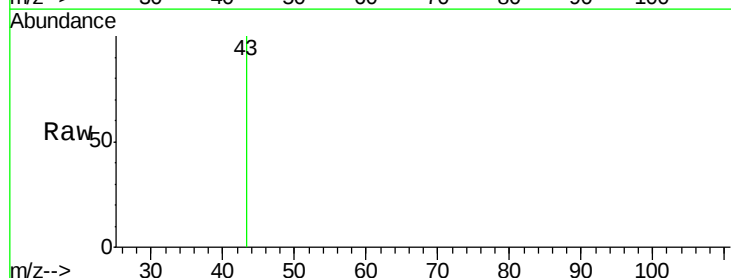
Acq: 9 Aug 2019 2:03

Tgt Ion: 43 Resp: 220

Ion Ratio Lower Upper

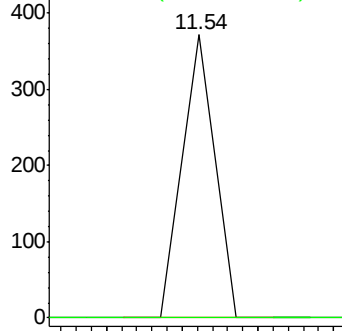
43 100

58 0.0 22.9 68.5#

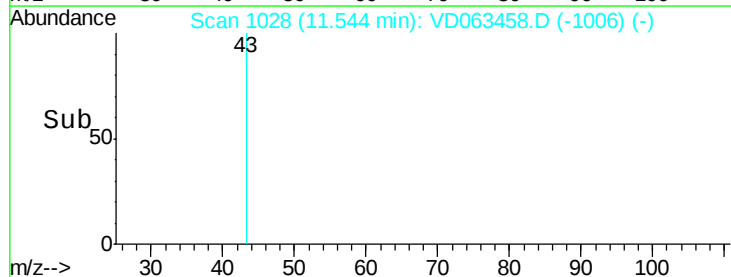


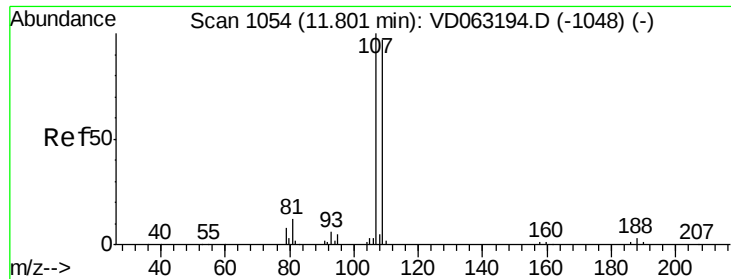
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->

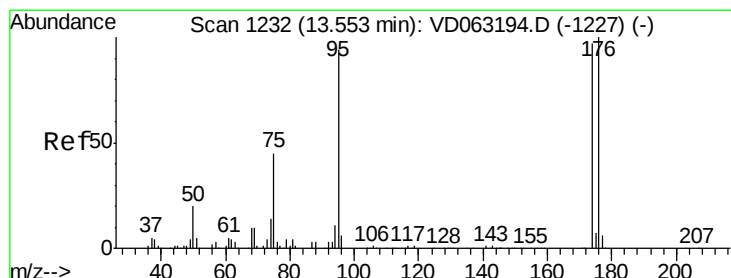
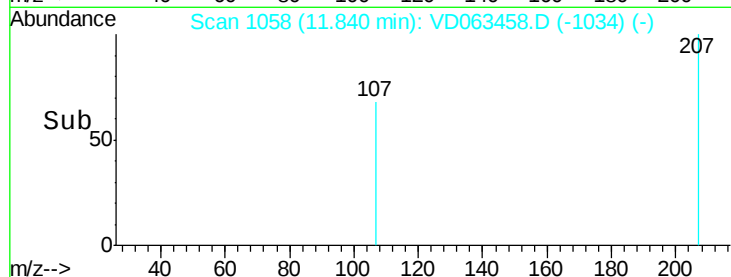
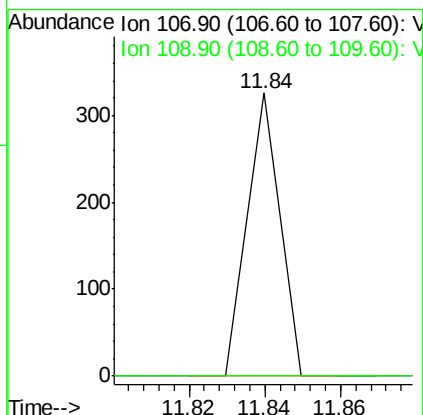
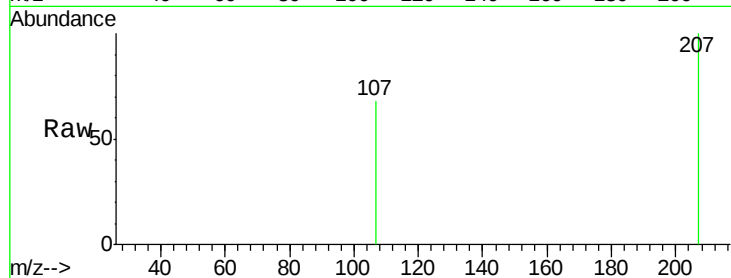




#61  
 1,2-Dibromoethane  
 Concen: 1.402 ug/l  
 RT: 11.84 min Scan# 1058  
 Delta R.T. 0.04 min  
 Lab File: VD063458.D  
 Acq: 9 Aug 2019 2:03

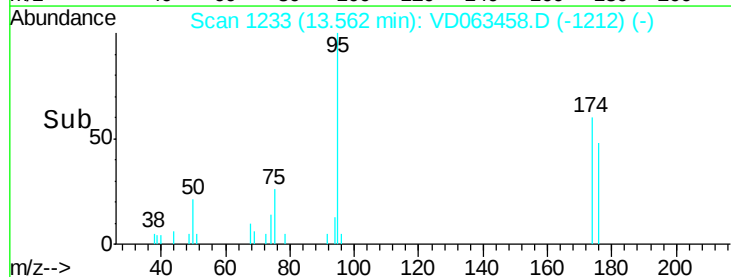
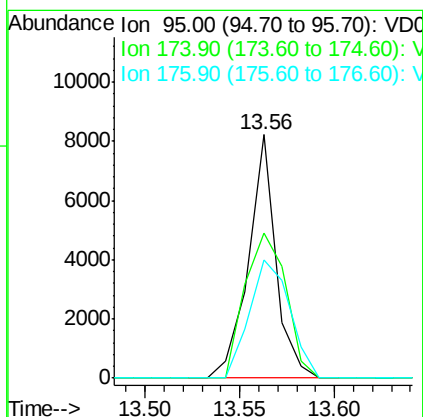
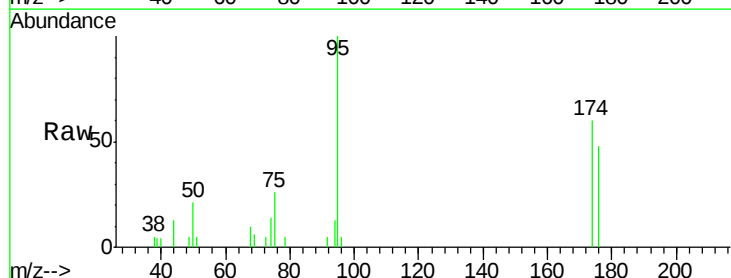
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SP-12

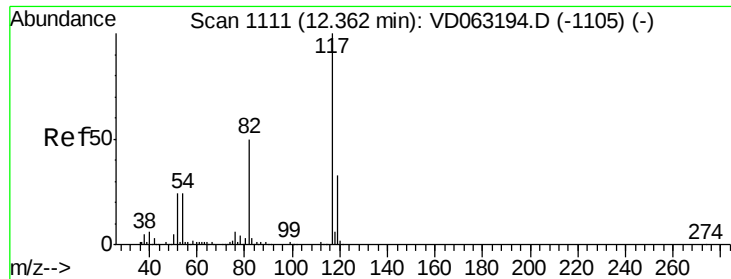
Tot Ion: 107 Resp: 193  
 Ion Ratio Lower Upper  
 107 100  
 109 0.0 77.5 116.3#



#62  
 4-Bromofluorobenzene  
 Concen: 36.516 ug/l  
 RT: 13.56 min Scan# 1233  
 Delta R.T. 0.01 min  
 Lab File: VD063458.D  
 Acq: 9 Aug 2019 2:03

Tgt Ion: 95 Resp: 8258  
 Ion Ratio Lower Upper  
 95 100  
 174 59.7 0.0 205.4  
 176 48.4 0.0 211.8

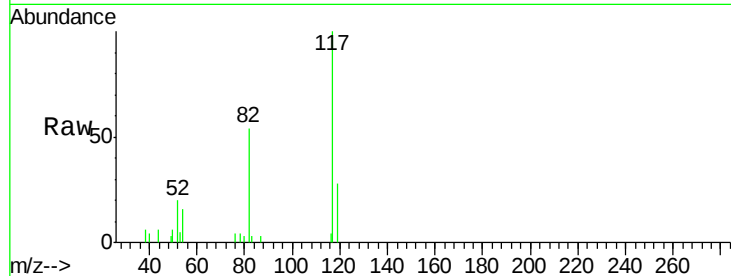




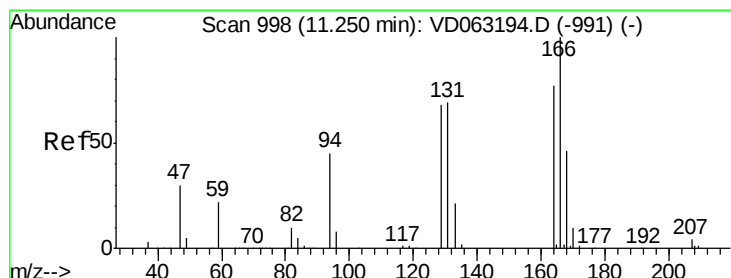
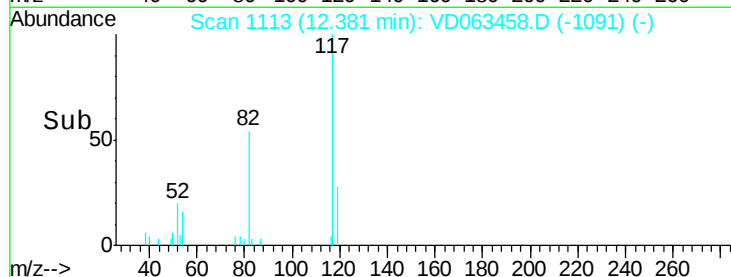
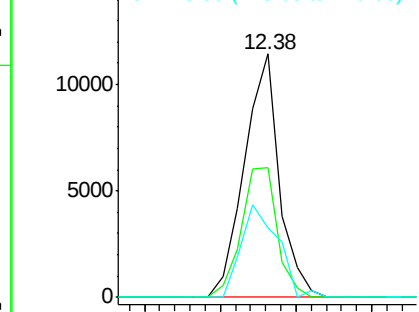
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1113  
Delta R.T. 0.02 min  
Lab File: VD063458.D  
Acq: 9 Aug 2019 2:03

Instrument :  
MSVOA\_D  
ClientSampled :  
SP-12

Tot Ion:117 Resp: 18338  
Ion Ratio Lower Upper  
117 100  
82 53.5 40.1 60.1  
119 28.4 26.5 39.7

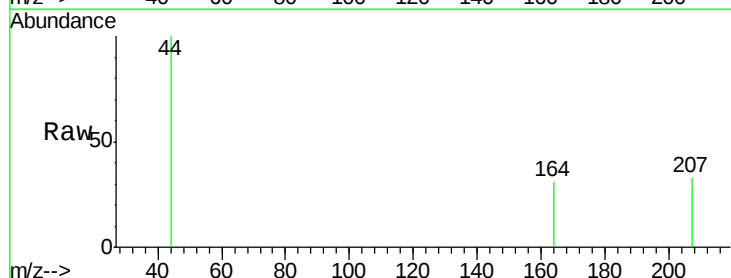


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

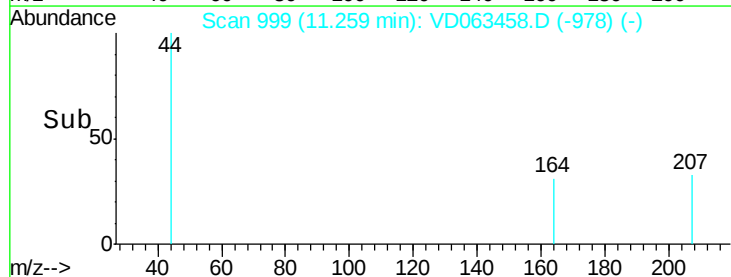
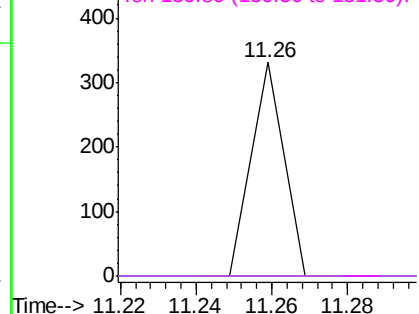


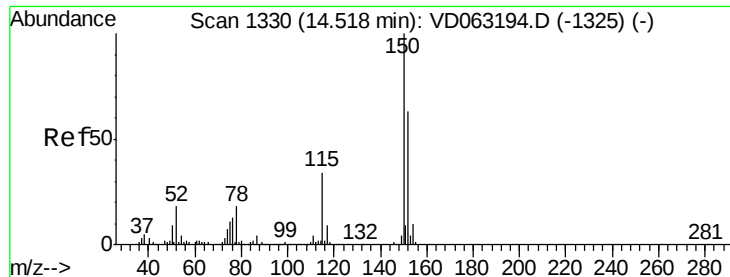
#64  
Tetrachloroethene  
Concen: 1.342 ug/l  
RT: 11.26 min Scan# 999  
Delta R.T. 0.01 min  
Lab File: VD063458.D  
Acq: 9 Aug 2019 2:03

Tgt Ion:164 Resp: 196  
Ion Ratio Lower Upper  
164 100  
166 0.0 104.3 156.5#  
129 0.0 70.9 106.3#  
131 0.0 71.6 107.4#



Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.85 (165.55 to 166.55): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

SP-12

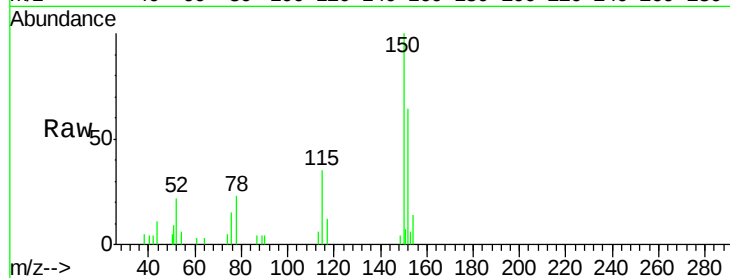
Tot Ion:152 Resp: 7856

Ion Ratio Lower Upper

152 100

115 54.9 27.5 82.4

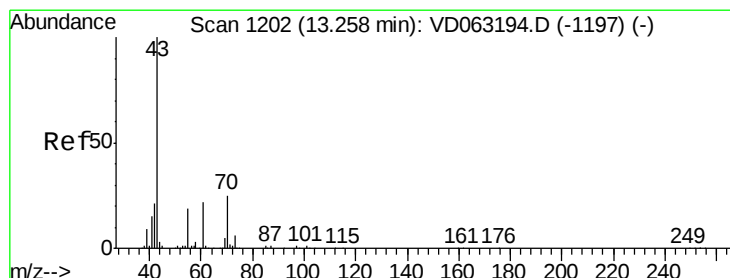
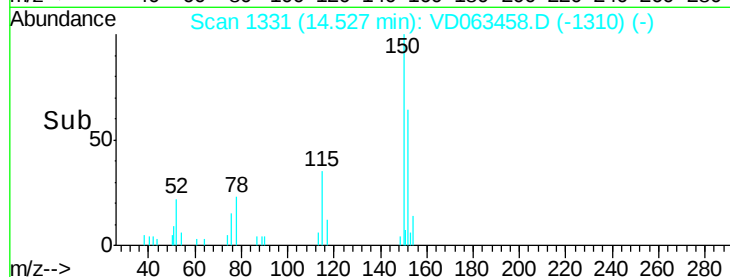
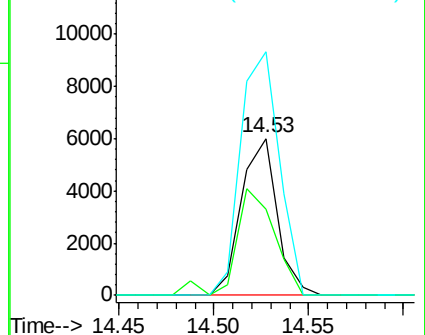
150 155.5 0.0 320.6



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



#74

N-ethyl acetate

Concen: 3.284 ug/l

RT: 13.28 min Scan# 1204

Delta R.T. 0.02 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Tgt Ion: 43 Resp: 428

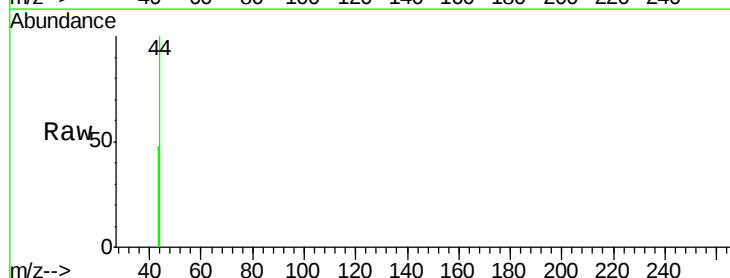
Ion Ratio Lower Upper

43 100

70 0.0 20.2 30.4#

55 0.0 14.9 22.3#

61 0.0 17.9 26.9#

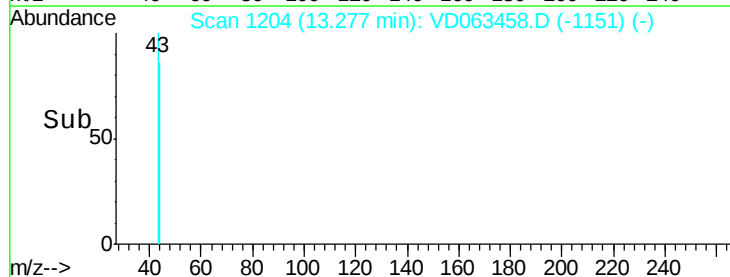
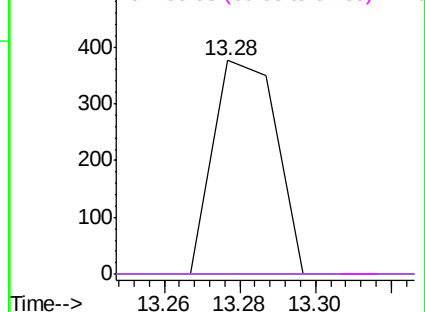


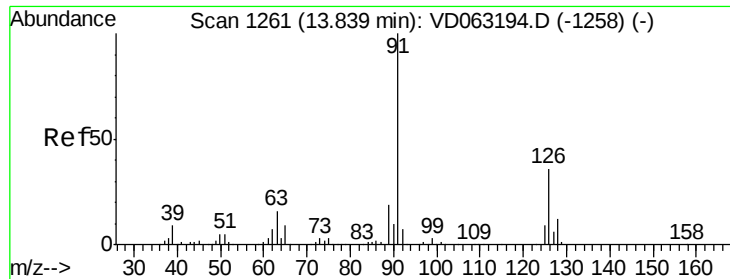
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#79

2-Chlorotoluene

Concen: 1.397 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.11 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

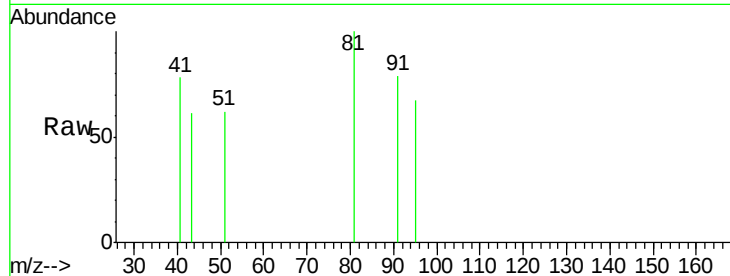
SP-12

Tot Ion: 91 Resp: 475

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC

13.95

400

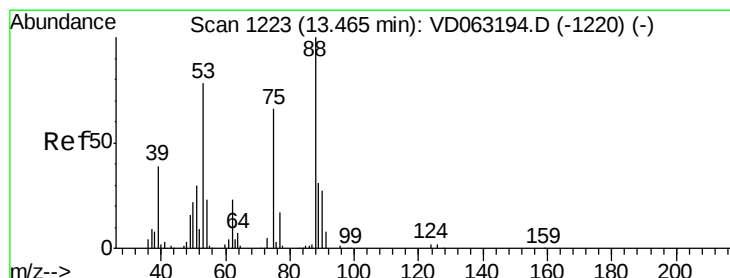
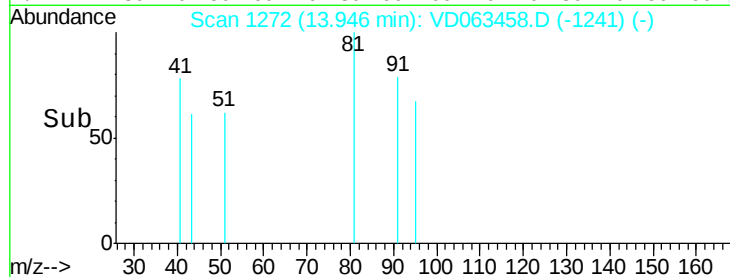
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 133.692 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

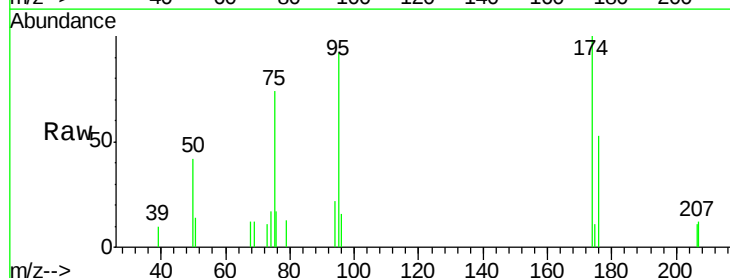
Tgt Ion: 75 Resp: 3503

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#



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

13.55

3000

2500

2000

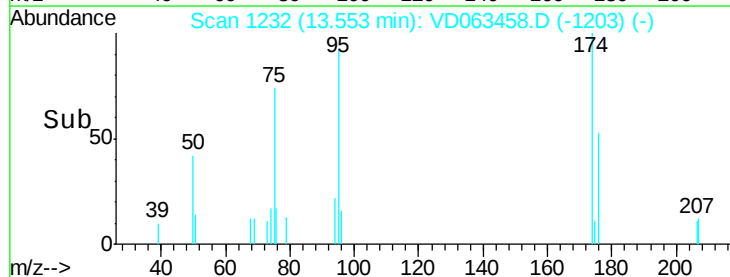
1500

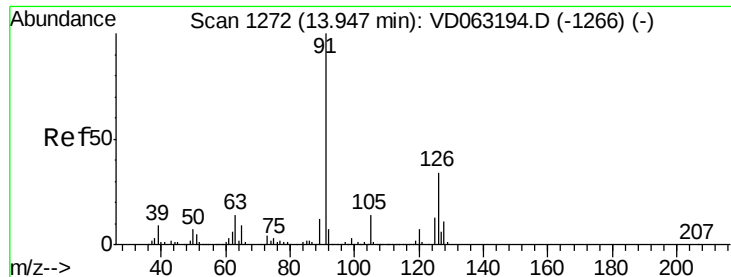
1000

500

0

Time-->





#82

4-Chlorotoluene

Concen: 1.187 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

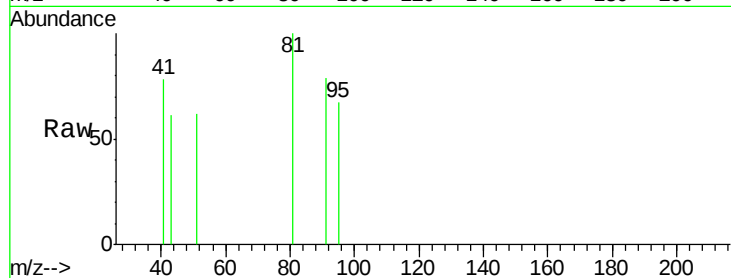
SP-12

Tot Ion: 91 Resp: 475

Ion Ratio Lower Upper

91 100

126 0.0 17.1 51.2#



Abundance Ion 91.00 (90.70 to 91.70): VD063194.D (-1266) (-)

Ion 125.95 (125.65 to 126.65): VD063194.D (-1266) (-)

13.95

400

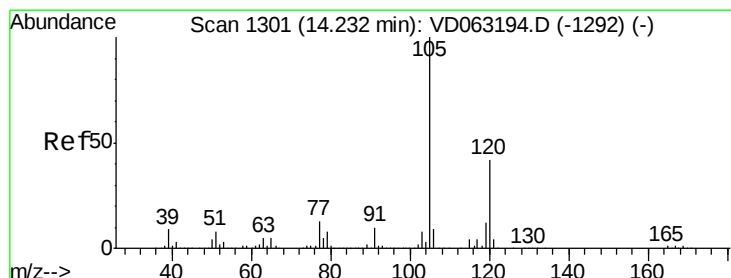
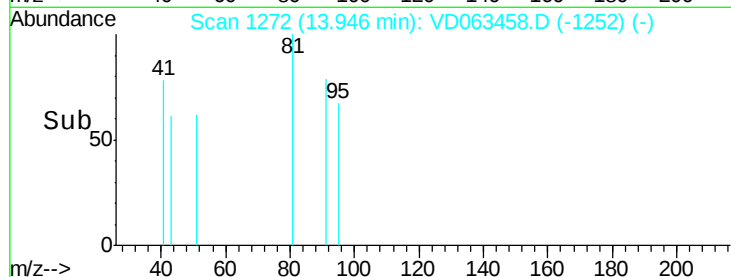
300

200

100

0

Time--> 13.90 13.95



#84

1,2,4-Trimethylbenzene

Concen: 1.264 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD063458.D

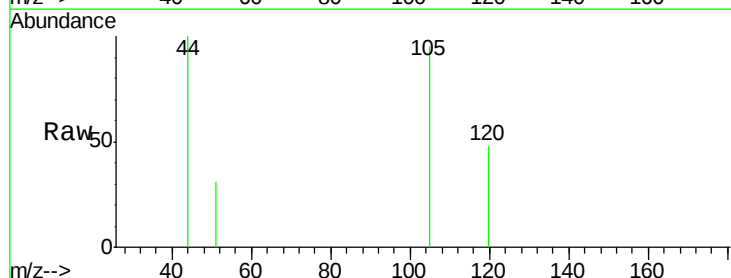
Acq: 9 Aug 2019 2:03

Tgt Ion: 105 Resp: 556

Ion Ratio Lower Upper

105 100

120 0.0 20.9 62.7#



Abundance Ion 105.05 (104.75 to 105.75): VD063194.D (-1292) (-)

Ion 120.05 (119.75 to 120.75): VD063194.D (-1292) (-)

14.24

1000

800

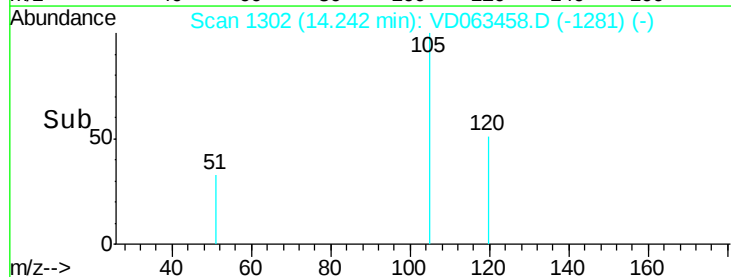
600

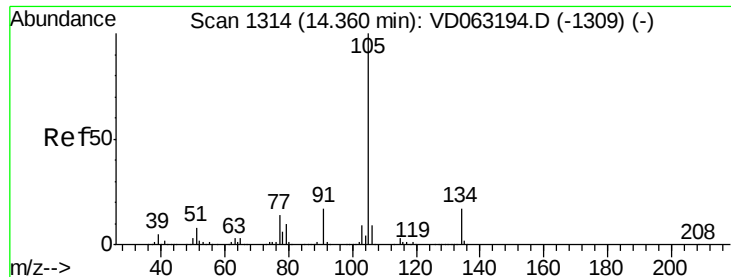
400

200

0

Time--> 14.22 14.24 14.26





#85

sec-Butylbenzene

Concen: 1.087 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.12 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampled :

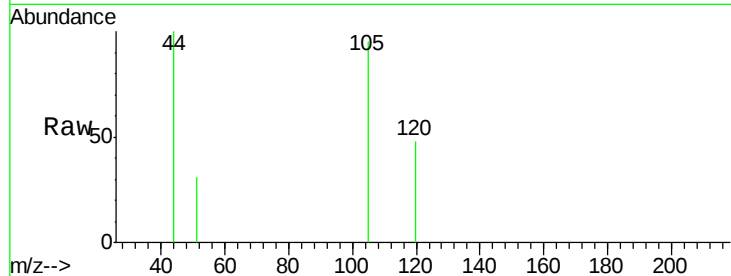
SP-12

Tot Ion:105 Resp: 556

Ion Ratio Lower Upper

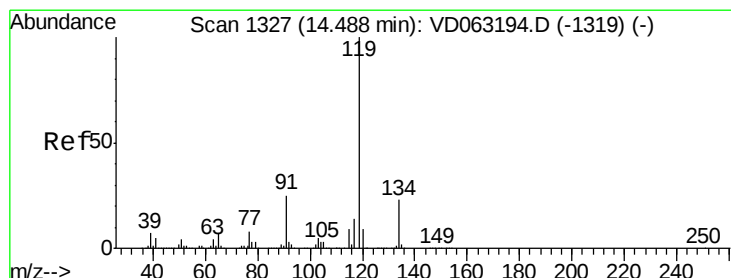
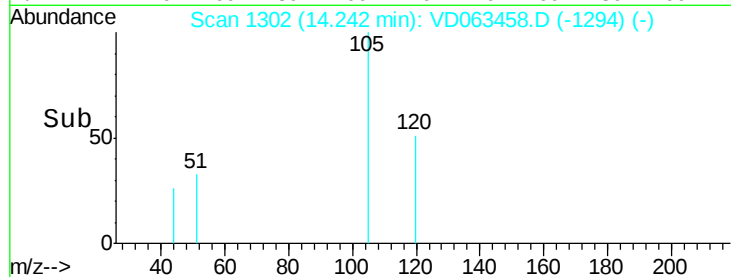
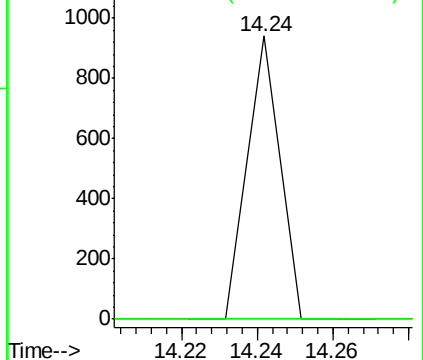
105 100

134 0.0 8.3 24.9#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 4.532 ug/l

RT: 14.50 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

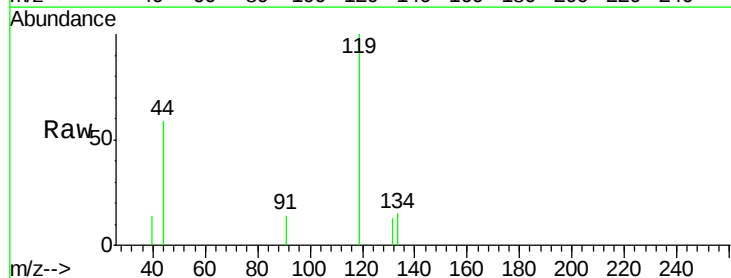
Tgt Ion:119 Resp: 2213

Ion Ratio Lower Upper

119 100

134 0.0 11.5 34.5#

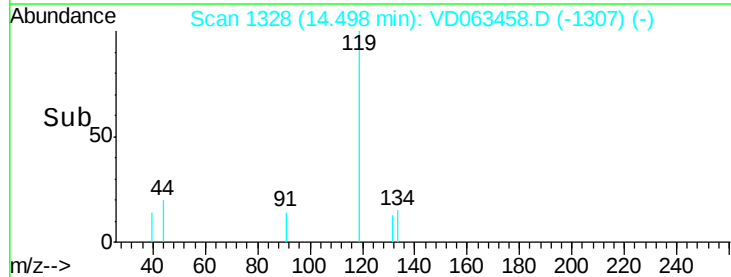
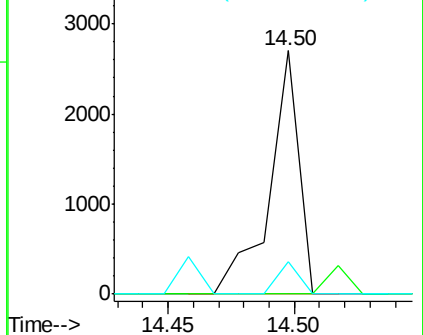
91 13.6 12.6 37.6

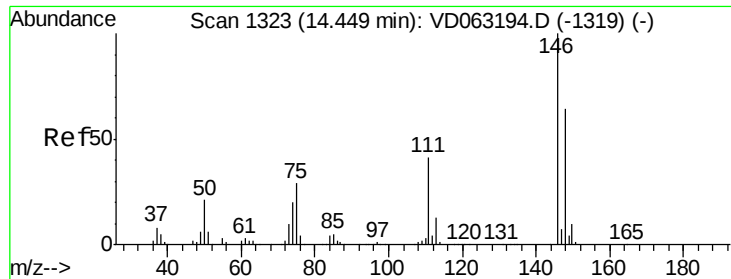


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

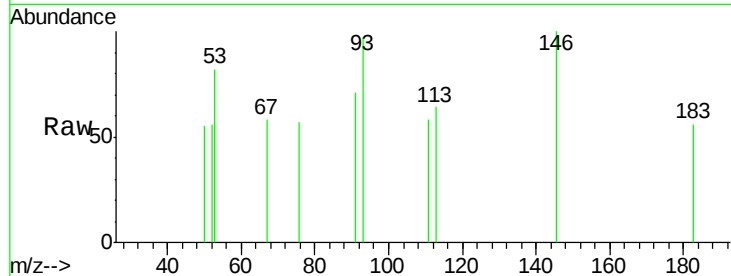




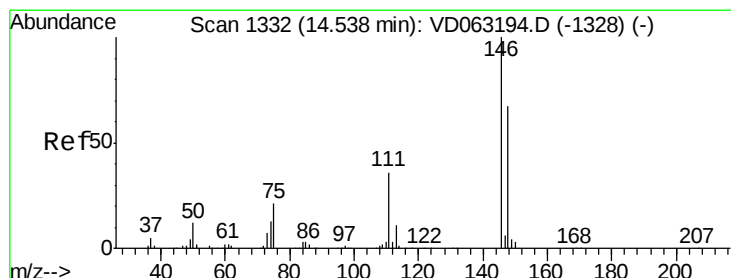
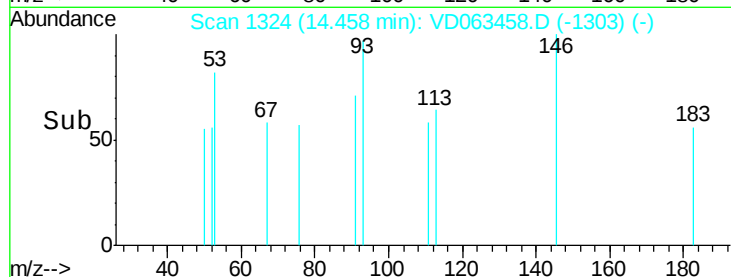
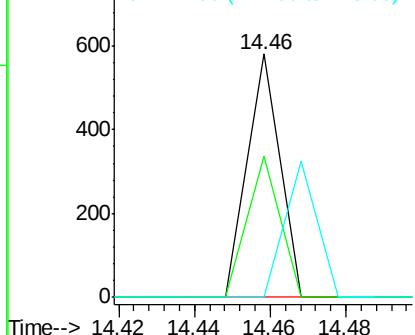
#87  
 1,3-Dichlorobenzene  
 Concen: 1.379 ug/l  
 RT: 14.46 min Scan# 1324  
 Delta R.T. 0.01 min  
 Lab File: VD063458.D  
 Acq: 9 Aug 2019 2:03

Instrument :  
 MSVOA\_D  
 ClientSampled :  
 SP-12

Tot Ion:146 Resp: 343  
 Ion Ratio Lower Upper  
 146 100  
 111 58.2 20.4 61.3  
 148 0.0 31.8 95.4#

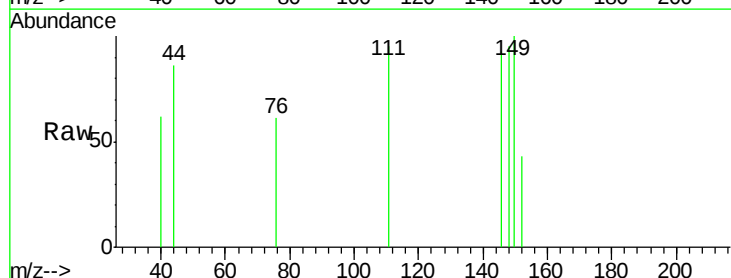


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

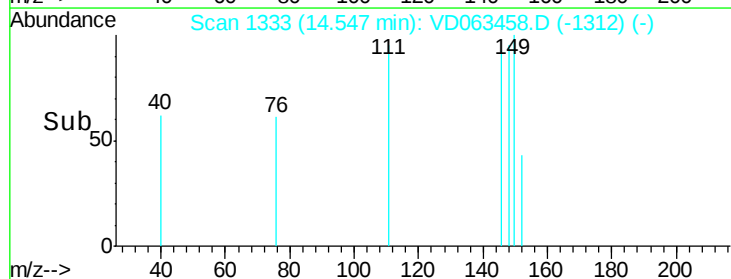
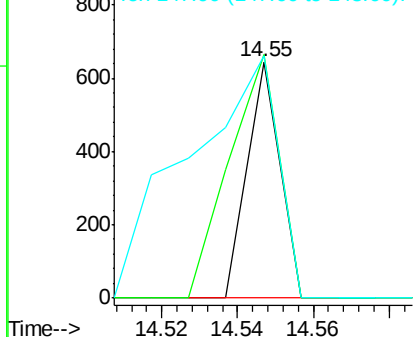


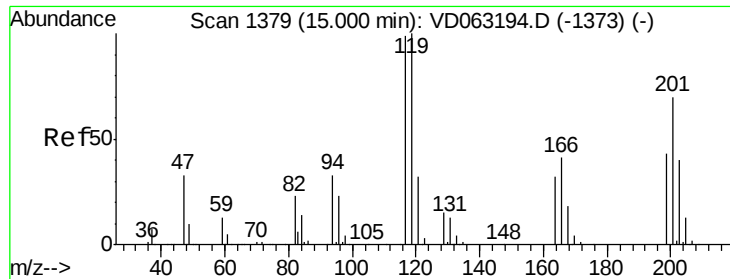
#88  
 1,4-Dichlorobenzene  
 Concen: 1.511 ug/l  
 RT: 14.55 min Scan# 1333  
 Delta R.T. 0.01 min  
 Lab File: VD063458.D  
 Acq: 9 Aug 2019 2:03

Tgt Ion:146 Resp: 380  
 Ion Ratio Lower Upper  
 146 100  
 111 103.1 18.1 54.3#  
 148 102.8 33.4 100.1#



Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

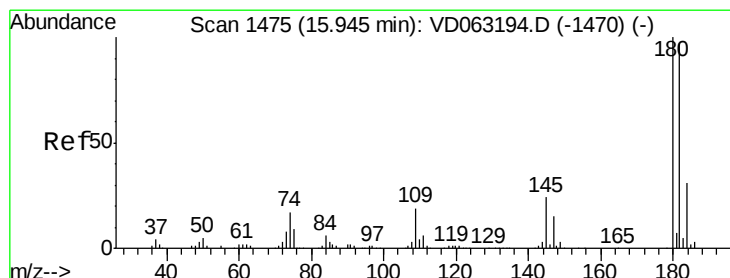
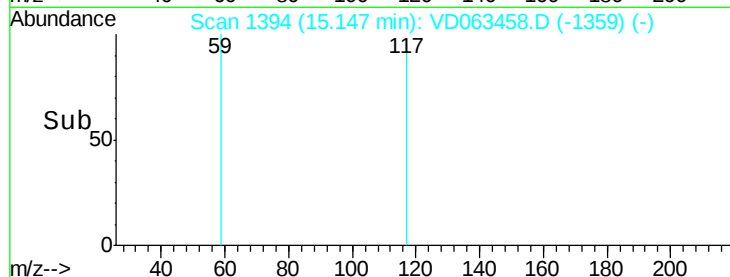
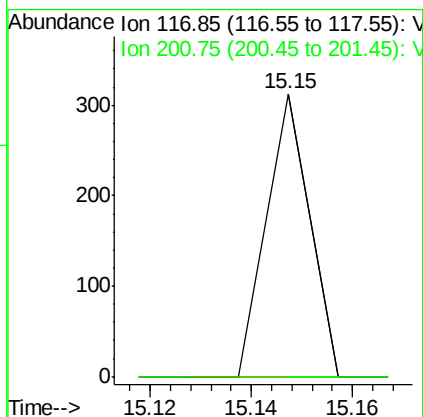
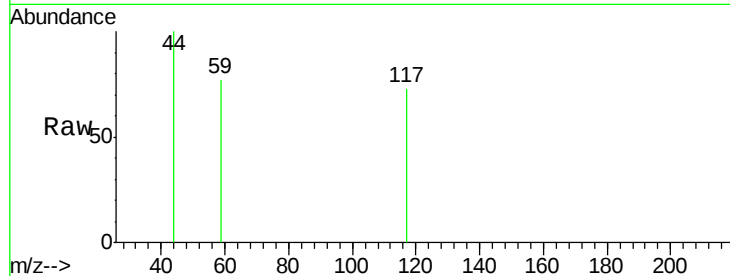




#90  
 Hexachloroethane  
 Concen: 1.454 ug/l  
 RT: 15.15 min Scan# 1394  
 Delta R.T. 0.15 min  
 Lab File: VD063458.D  
 Acq: 9 Aug 2019 2:03

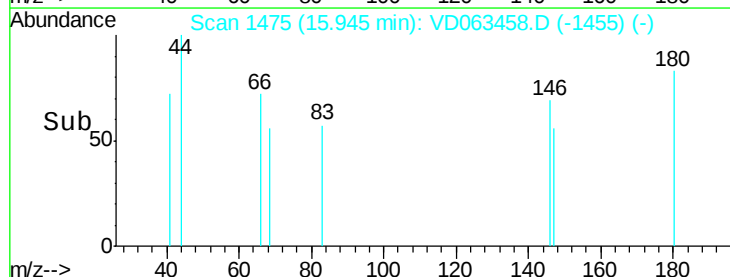
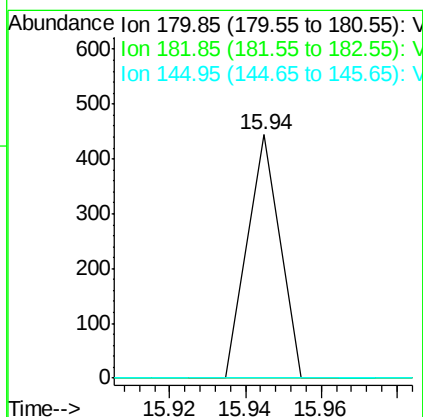
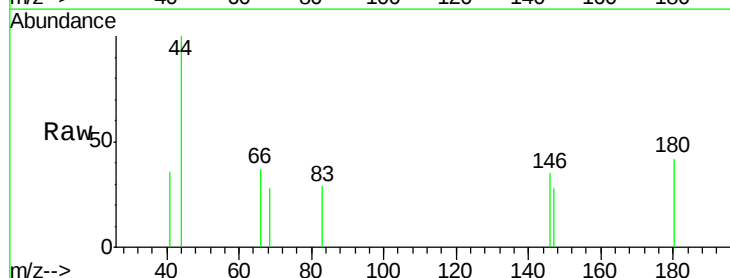
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SP-12

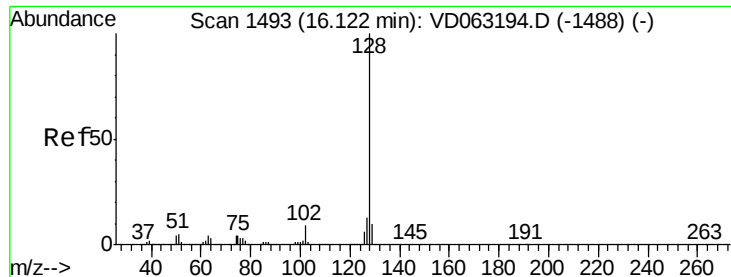
Tot Ion:117 Resp: 185  
 Ion Ratio Lower Upper  
 117 100  
 201 0.0 35.2 105.6#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.524 ug/l  
 RT: 15.94 min Scan# 1475  
 Delta R.T. -0.00 min  
 Lab File: VD063458.D  
 Acq: 9 Aug 2019 2:03

Tgt Ion:180 Resp: 262  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 48.6 145.8#  
 145 0.0 12.2 36.6#





#95

Naphthalene

Concen: 10.292 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD063458.D

Acq: 9 Aug 2019 2:03

Instrument :

MSVOA\_D

ClientSampleId :

SP-12

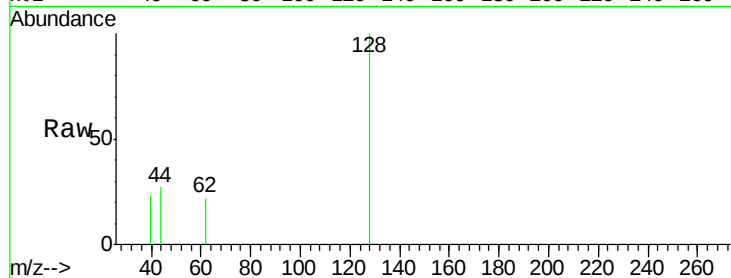
Tot Ion:128 Resp: 2501

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 7.8 11.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

