

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111519\  
 Data File : VD064251.D  
 Acq On : 16 Nov 2019 04:25  
 Operator : VA/SY  
 Sample : K5861-09  
 Misc : 4.72G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP-9

Quant Time: Nov 18 00:45:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 12 02:43:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 824      | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 1183     | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 1025     | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 371      | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 64       | 9.44  | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 18.88%  |       |
| 35) Dibromofluoromethane  | 0.00   | 113 | 0        | 0.00  | ug/l    |       |
| Spiked Amount             | 50.000 |     | Recovery | =     | 0.00%   |       |
| 50) Toluene-d8            | 10.34  | 98  | 1352     | 52.78 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.56% |       |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 342      | 38.55 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 77.10%  |       |

## Target Compounds

|                               |       |    |     |         |        | Qvalue |
|-------------------------------|-------|----|-----|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00  | 85 | 86  | 12.584  | ug/l # | 42     |
| 3) Chloromethane              | 2.06  | 50 | 60  | 8.185   | ug/l # | 42     |
| 6) Chloroethane               | 2.94  | 64 | 107 | 21.362  | ug/l # | 43     |
| 12) 1,1-Dichloroethene        | 3.90  | 96 | 87  | 12.565  | ug/l # | 1      |
| 13) Acrolein                  | 3.88  | 56 | 182 | 454.509 | ug/l # | 15     |
| 14) Allyl chloride            | 4.72  | 41 | 349 | 28.508  | ug/l # | 22     |
| 15) Acrylonitrile             | 5.49  | 53 | 83  | 55.714  | ug/l # | 16     |
| 16) Acetone                   | 4.19  | 43 | 232 | 144.507 | ug/l # | 45     |
| 18) Methyl Acetate            | 4.71  | 43 | 326 | 72.702  | ug/l # | 53     |
| 20) Methylene Chloride        | 4.89  | 84 | 60  | 7.399   | ug/l # | 5      |
| 21) trans-1,2-Dichloroethene  | 5.54  | 96 | 95  | 12.110  | ug/l # | 1      |
| 23) Vinyl Acetate             | 6.32  | 43 | 60  | 4.739   | ug/l # | 73     |
| 25) 2-Butanone                | 7.24  | 43 | 239 | 115.227 | ug/l # | 49     |
| 26) 2,2-Dichloropropane       | 7.11  | 77 | 57  | 4.407   | ug/l # | 54     |
| 27) cis-1,2-Dichloroethene    | 7.11  | 96 | 174 | 20.684  | ug/l # | 1      |
| 28) Bromochloromethane        | 7.66  | 49 | 66  | 14.374  | ug/l # | 10     |
| 29) Tetrahydrofuran           | 7.59  | 42 | 62  | 49.751  | ug/l # | 35     |
| 30) Chloroform                | 7.76  | 83 | 58  | 4.299   | ug/l # | 18     |
| 31) Cyclohexane               | 8.00  | 56 | 117 | 8.796   | ug/l # | 14     |
| 32) 1,1,1-Trichloroethane     | 8.07  | 97 | 56  | 4.335   | ug/l # | 24     |
| 36) 1,1-Dichloropropene       | 8.07  | 75 | 73  | 6.686   | ug/l # | 41     |
| 37) Ethyl Acetate             | 7.30  | 43 | 172 | 37.369  | ug/l # | 70     |
| 39) Methylcyclohexane         | 9.43  | 83 | 65  | 4.705   | ug/l # | 18     |
| 40) Benzene                   | 8.61  | 78 | 54  | 1.810   | ug/l # | 52     |
| 41) Methacrylonitrile         | 7.53  | 41 | 67  | 23.160  | ug/l # | 25     |
| 43) Isopropyl Acetate         | 8.43  | 43 | 604 | 63.689  | ug/l # | 53     |
| 47) Bromodichloromethane      | 9.73  | 83 | 74  | 7.066   | ug/l # | 25     |
| 48) Methyl methacrylate       | 9.46  | 41 | 477 | 102.862 | ug/l # | 33     |
| 51) 4-Methyl-2-Pentanone      | 10.23 | 43 | 250 | 54.971  | ug/l # | 37     |
| 55) 1,1,2-Trichloroethane     | 10.83 | 97 | 127 | 24.078  | ug/l # | 17     |
| 56) Ethyl methacrylate        | 10.60 | 69 | 176 | 23.853  | ug/l # | 1      |
| 57) 1,3-Dichloropropane       | 11.11 | 76 | 55  | 5.979   | ug/l # | 42     |
| 58) 2-Chloroethyl Vinyl ether | 10.00 | 63 | 64  | 21.413  | ug/l # | 45     |
| 59) 2-Hexanone                | 10.98 | 43 | 175 | 54.087  | ug/l # | 26     |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

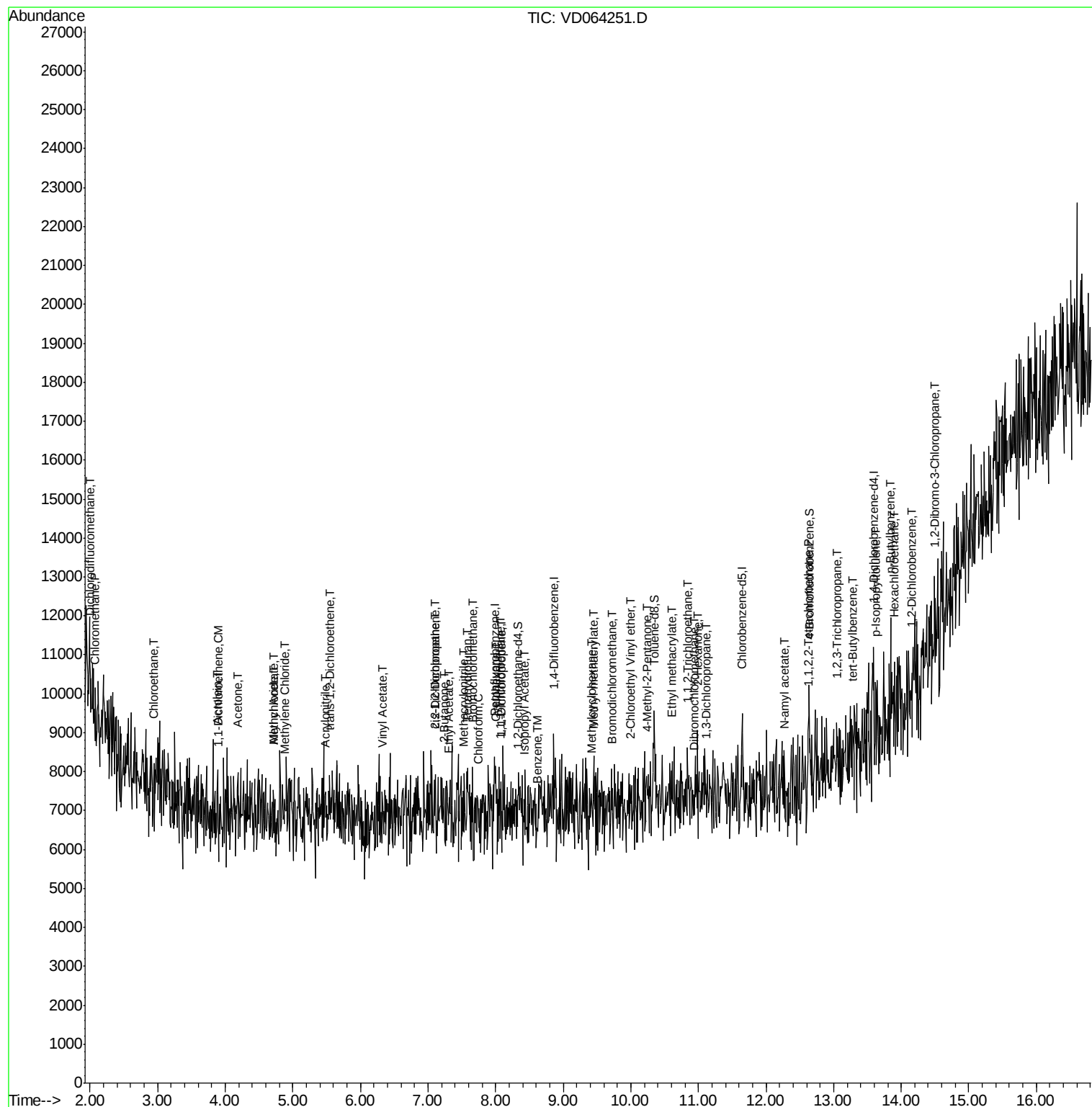
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 60) Dibromochloromethane       | 10.93 | 129  | 54       | 7.337  | ug/l # | 11       |
| 74) N-amyl acetate             | 12.28 | 43   | 456      | 70.911 | ug/l # | 51       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.62 | 83   | 70       | 17.060 | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane     | 13.04 | 75   | 73       | 24.429 | ug/l # | 100      |
| 83) tert-Butylbenzene          | 13.28 | 119  | 57       | 2.889  | ug/l # | 27       |
| 86) p-Isopropyltoluene         | 13.63 | 119  | 119      | 4.723  | ug/l # | 50       |
| 89) n-Butylbenzene             | 13.84 | 91   | 136      | 5.975  | ug/l # | 32       |
| 90) Hexachloroethane           | 13.90 | 117  | 56       | 12.027 | ug/l # | 4        |
| 91) 1,2-Dichlorobenzene        | 14.15 | 146  | 58       | 5.580  | ug/l # | 25       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 54       | 73.606 | ug/l # | 1        |

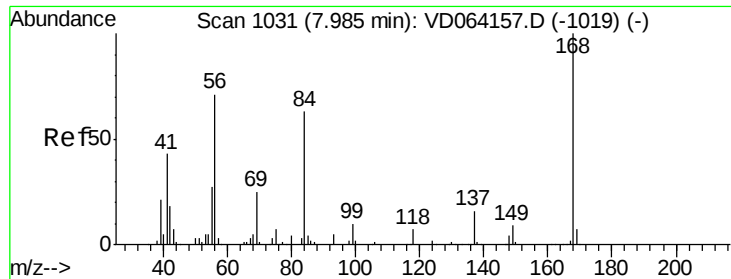
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

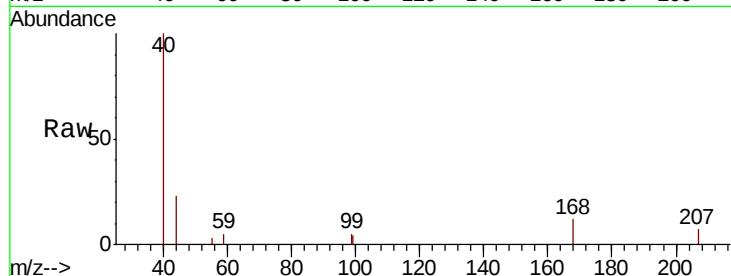
EP-9

Tot Ion:168 Resp: 824

Ion Ratio Lower Upper

168 100

99 79.4 41.6 62.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

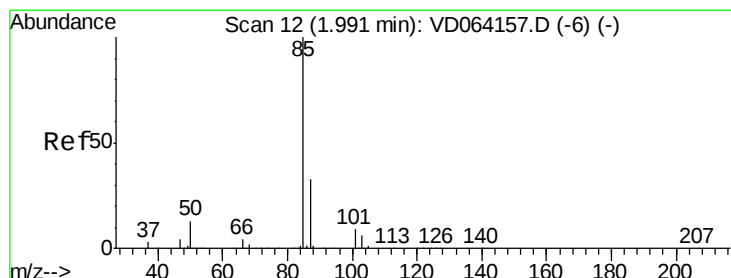
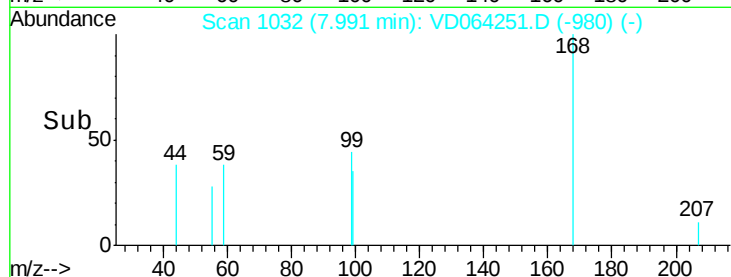
600

400

200

0

Time--> 7.95 8.00



#2

Dichlorodifluoromethane

Concen: 12.584 ug/l

RT: 2.00 min Scan# 14

Delta R.T. 0.01 min

Lab File: VD064251.D

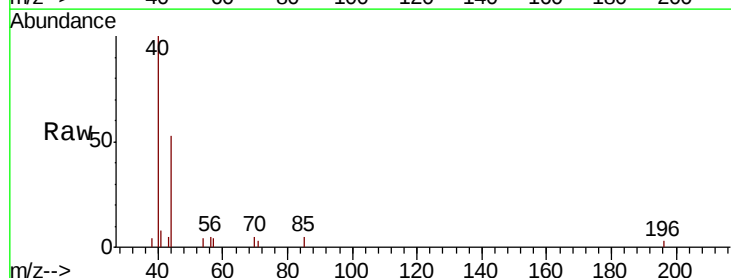
Acq: 16 Nov 2019 04:25

Tgt Ion: 85 Resp: 86

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.2#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

2.00

250

200

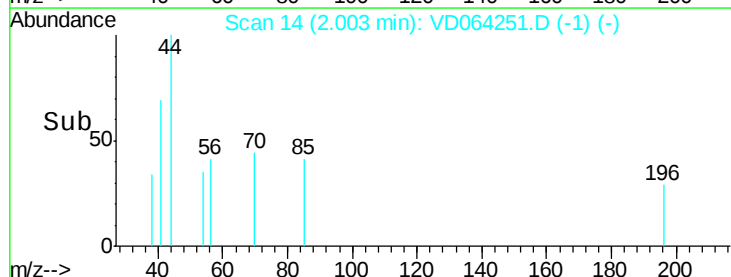
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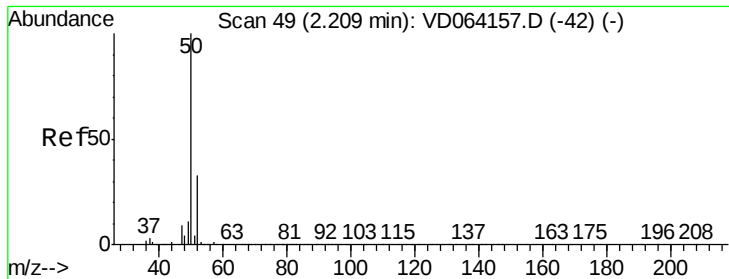
100

50

0

Time--> 1.98 1.99 2.00 2.01 2.02





#3

Chloromethane

Concen: 8.185 ug/l

RT: 2.06 min Scan# 24

Delta R.T. -0.15 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

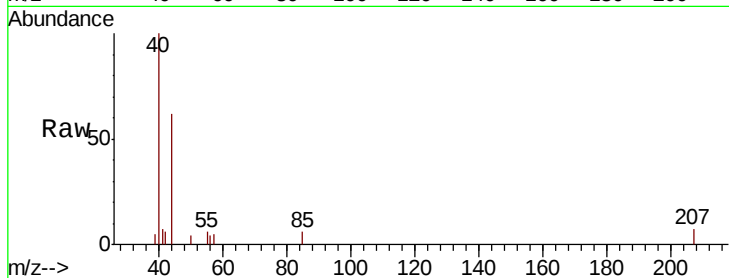
EP-9

Tot Ion: 50 Resp: 60

Ion Ratio Lower Upper

50 100

52 0.0 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.06

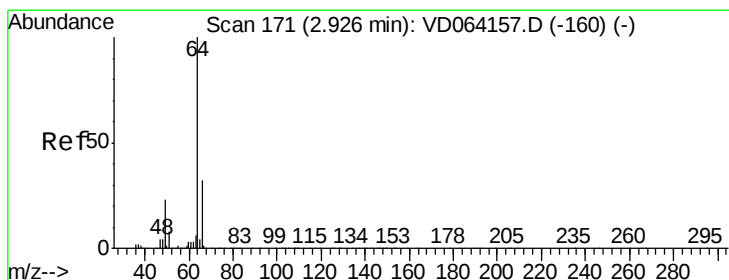
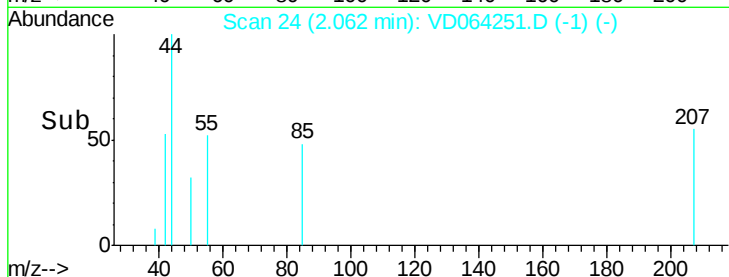
150

100

50

0

Time--> 2.04 2.05 2.06 2.07 2.08



#6

Chloroethane

Concen: 21.362 ug/l

RT: 2.94 min Scan# 173

Delta R.T. 0.01 min

Lab File: VD064251.D

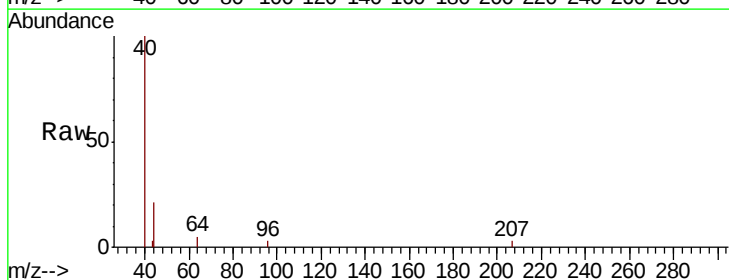
Acq: 16 Nov 2019 04:25

Tgt Ion: 64 Resp: 107

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.94

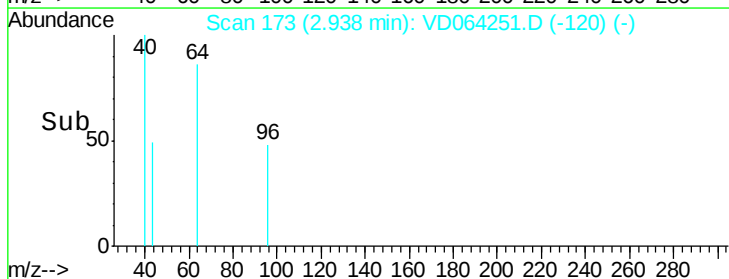
300

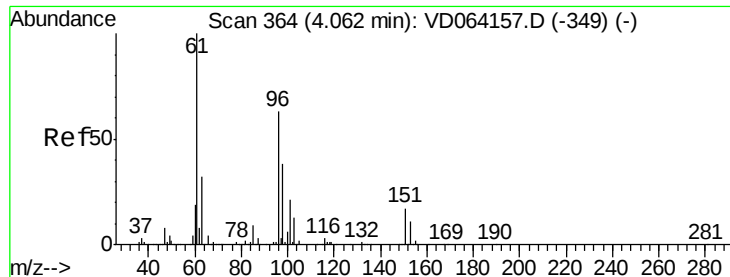
200

100

0

Time--> 2.92 2.93 2.94 2.95

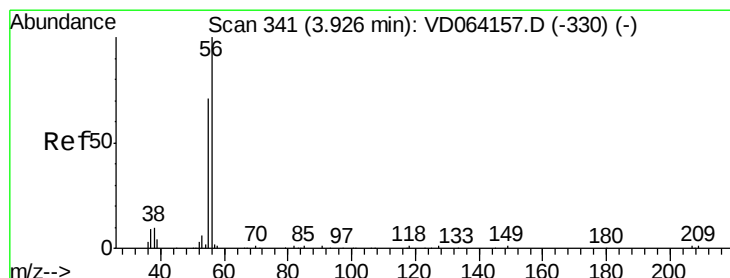
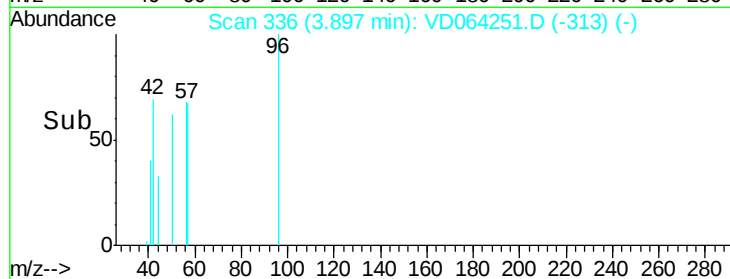
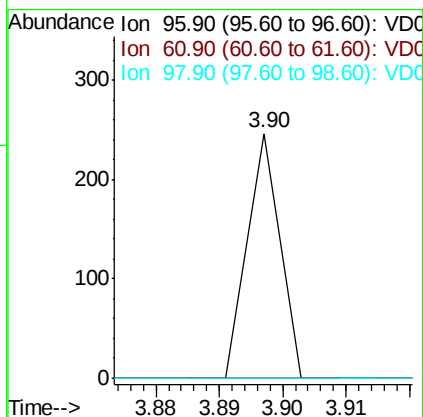
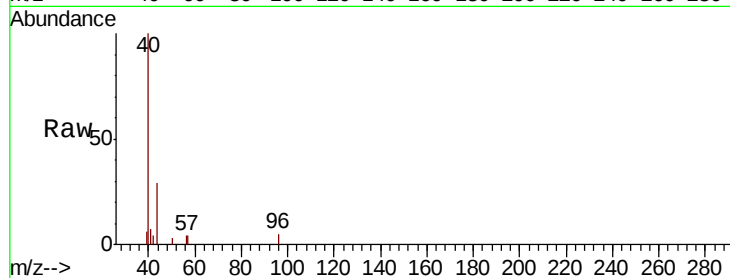




#12  
 1,1-Dichloroethene  
 Concen: 12.565 ug/l  
 RT: 3.90 min Scan# 336  
 Delta R.T. -0.16 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

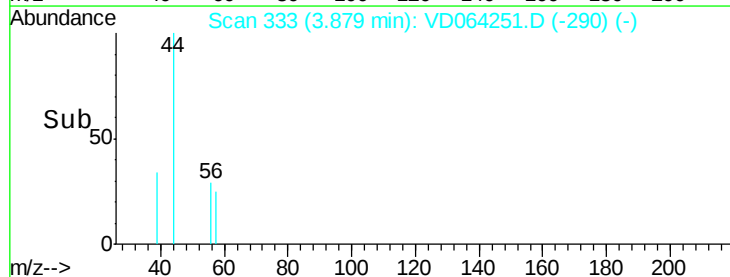
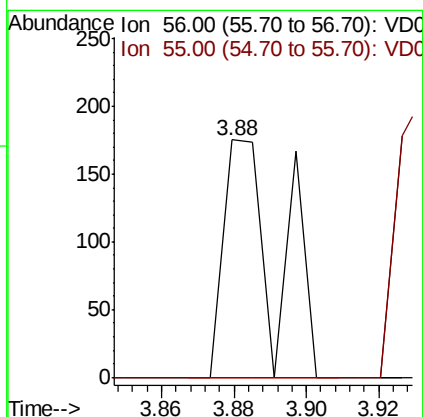
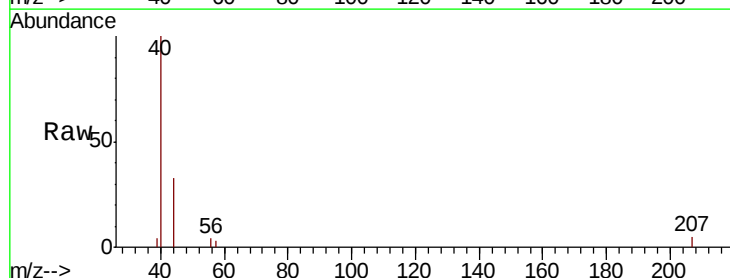
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP-9

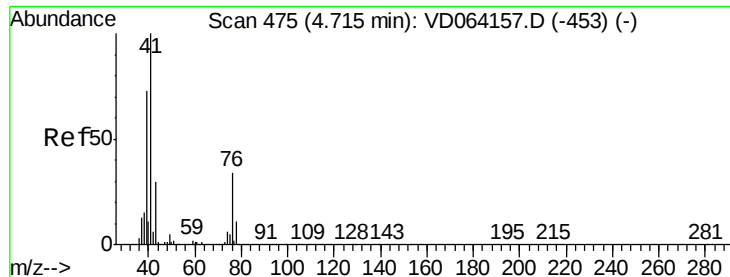
Tot Ion: 96 Resp: 87  
 Ion Ratio Lower Upper  
 96 100  
 61 0.0 127.4 191.2#  
 98 0.0 48.1 72.1#



#13  
 Acrolein  
 Concen: 454.509 ug/l  
 RT: 3.88 min Scan# 333  
 Delta R.T. -0.05 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

Tgt Ion: 56 Resp: 182  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 56.1 84.1#





#14

Allvl chloride

Concen: 28.508 ug/l

RT: 4.72 min Scan# 476

Delta R.T. 0.01 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

EP-9

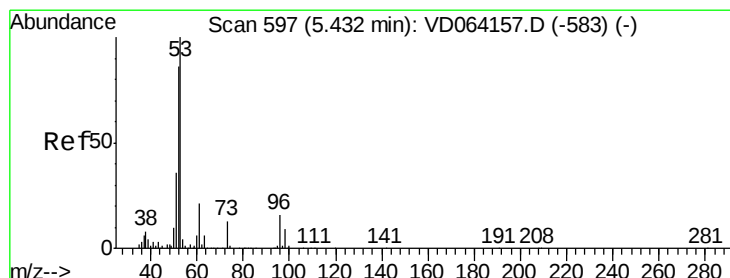
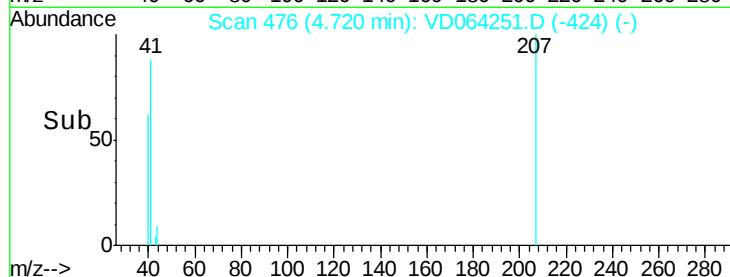
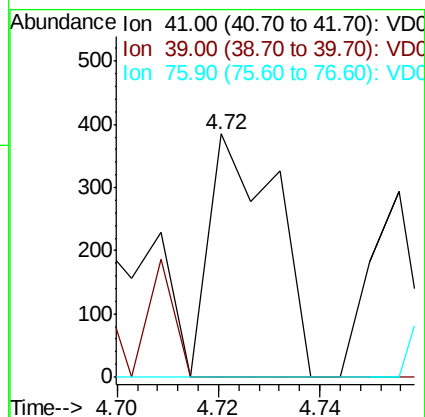
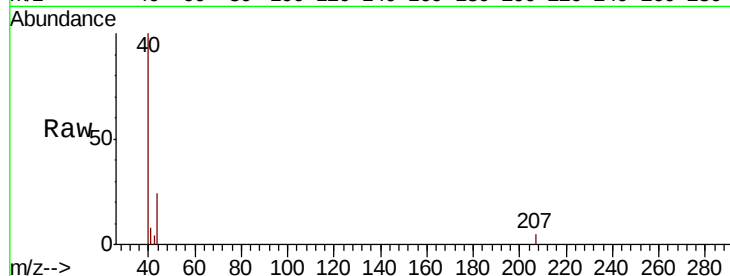
Tot Ion: 41 Resp: 349

Ion Ratio Lower Upper

41 100

39 0.0 57.5 86.3#

76 0.0 26.8 40.2#



#15

Acrylonitrile

Concen: 55.714 ug/l

RT: 5.49 min Scan# 606

Delta R.T. 0.05 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

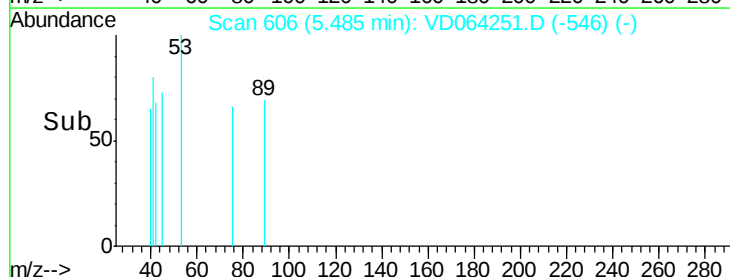
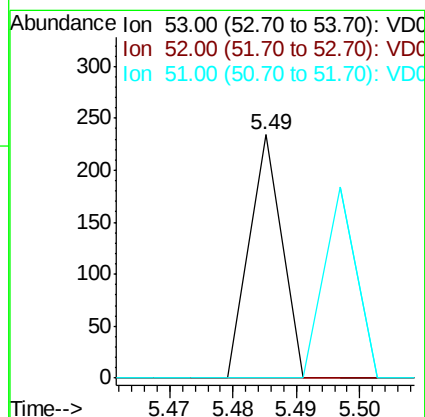
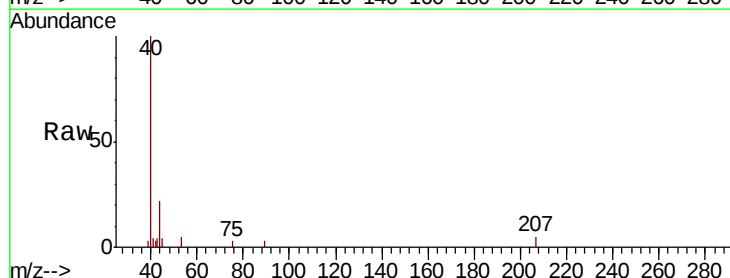
Tgt Ion: 53 Resp: 83

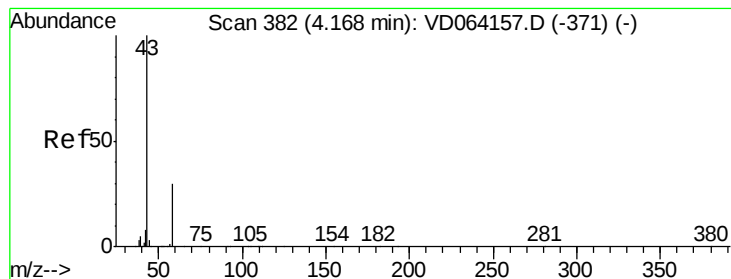
Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 78.3 30.6 46.0#





#16

Acetone

Concen: 144.507 ug/l

RT: 4.19 min Scan# 386

Delta R.T. 0.02 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

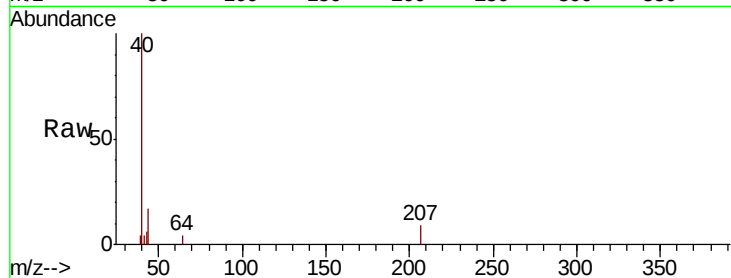
EP-9

Tot Ion: 43 Resp: 232

Ion Ratio Lower Upper

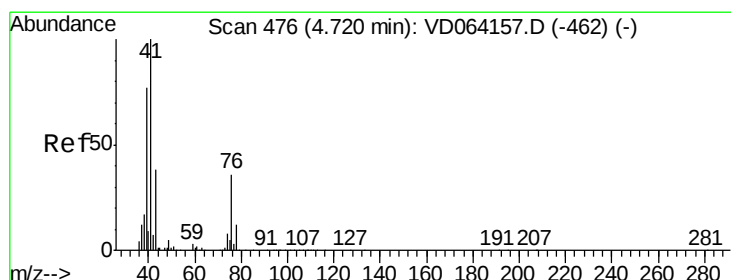
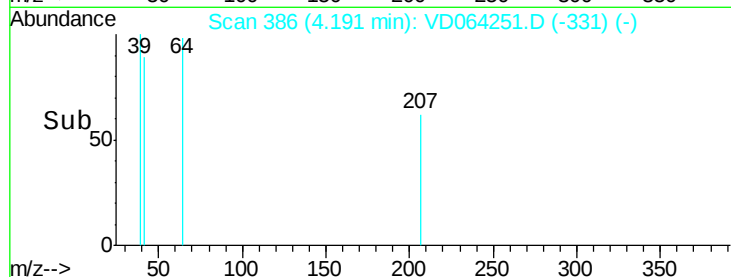
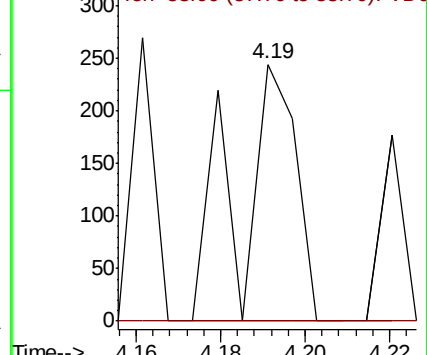
43 100

58 0.0 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 72.702 ug/l

RT: 4.71 min Scan# 475

Delta R.T. -0.01 min

Lab File: VD064251.D

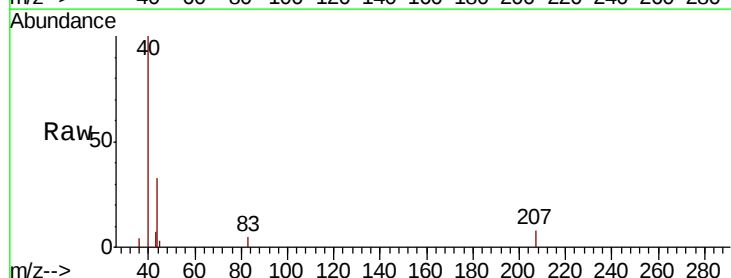
Acq: 16 Nov 2019 04:25

Tgt Ion: 43 Resp: 326

Ion Ratio Lower Upper

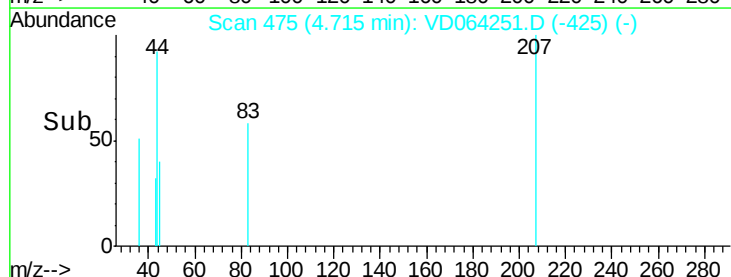
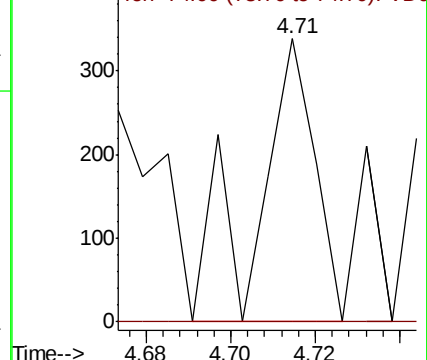
43 100

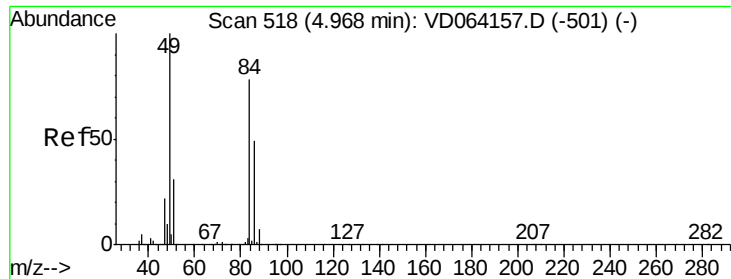
74 0.0 18.4 27.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

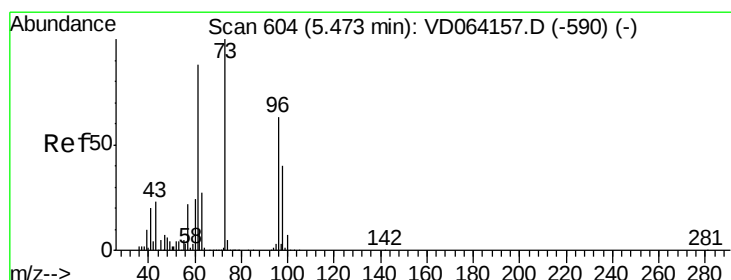
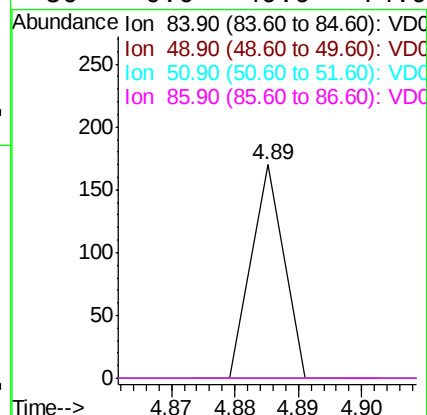
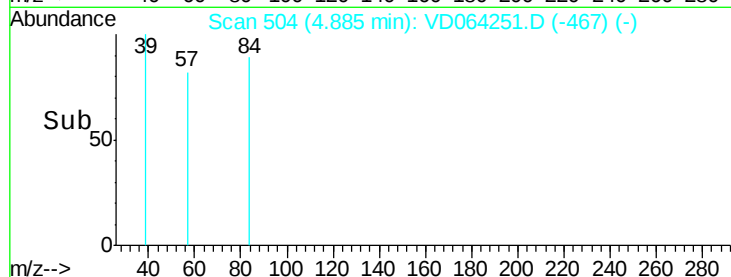
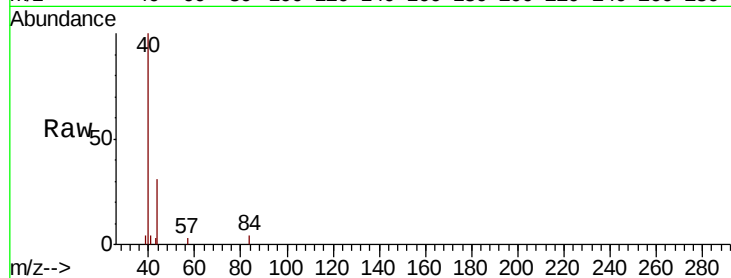




#20  
Methvlene Chloride  
Concen: 7.399 ug/l  
RT: 4.89 min Scan# 504  
Delta R.T. -0.08 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

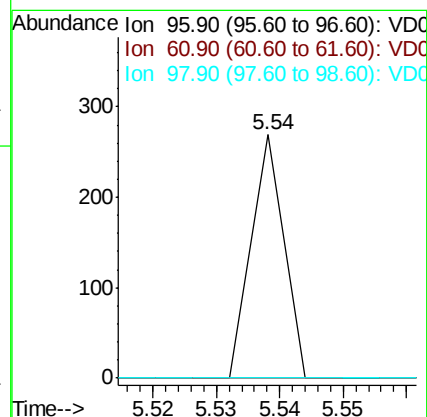
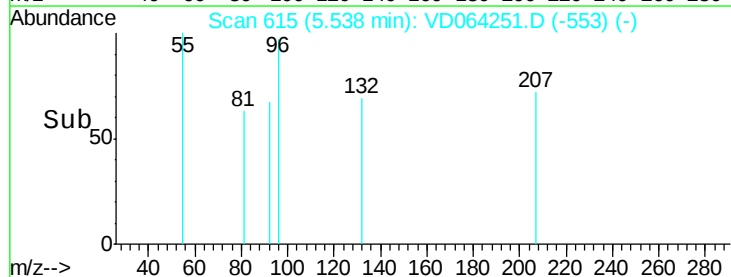
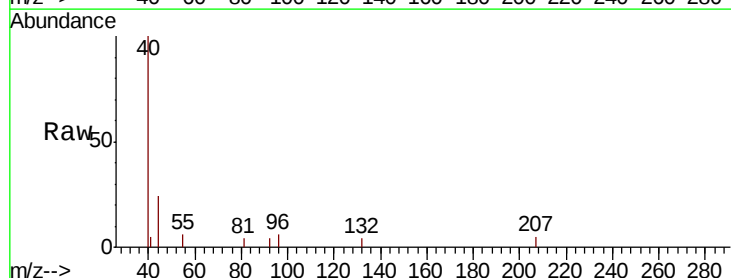
Instrument :  
MSVOA\_D  
ClientSampled :  
EP-9

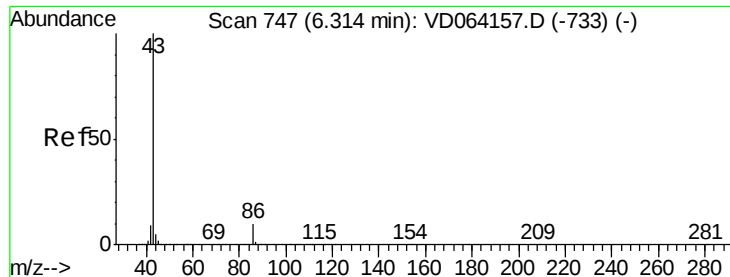
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 49      | 0.0   | 102.1 | 153.1# |
| 51      | 0.0   | 32.2  | 48.2#  |
| 86      | 0.0   | 49.9  | 74.9#  |



#21  
trans-1,2-Dichloroethene  
Concen: 12.110 ug/l  
RT: 5.54 min Scan# 615  
Delta R.T. 0.06 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 0.0   | 111.8 | 167.6# |
| 98      | 0.0   | 50.3  | 75.5#  |





#23

Vinyl Acetate

Concen: 4.739 ug/l

RT: 6.32 min Scan# 748

Delta R.T. 0.01 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleID :

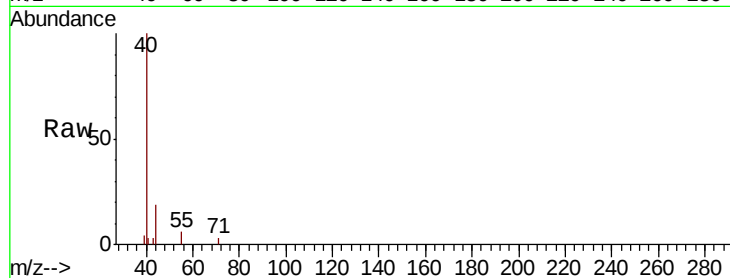
EP-9

Tot Ion: 43 Resp: 60

Ion Ratio Lower Upper

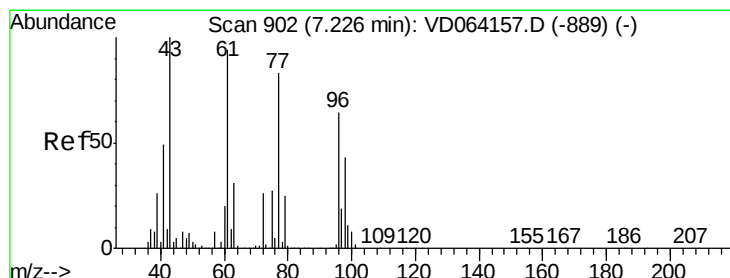
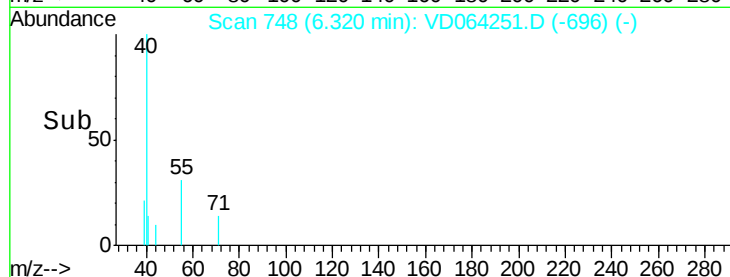
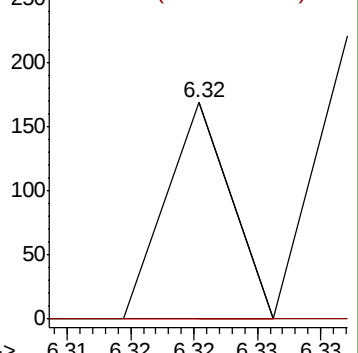
43 100

86 0.0 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#25

2-Butanone

Concen: 115.227 ug/l

RT: 7.24 min Scan# 905

Delta R.T. 0.02 min

Lab File: VD064251.D

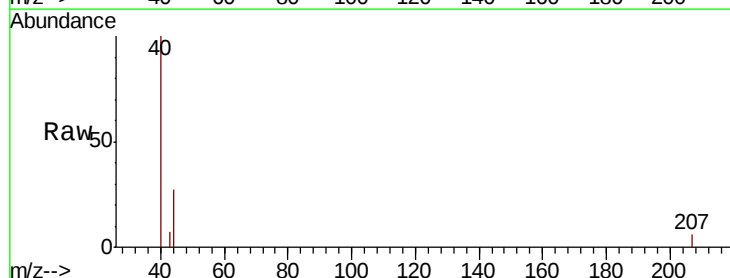
Acq: 16 Nov 2019 04:25

Tgt Ion: 43 Resp: 239

Ion Ratio Lower Upper

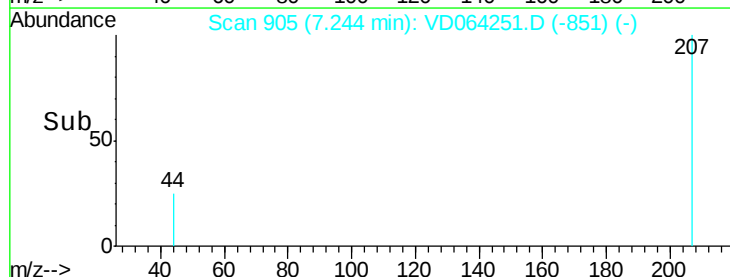
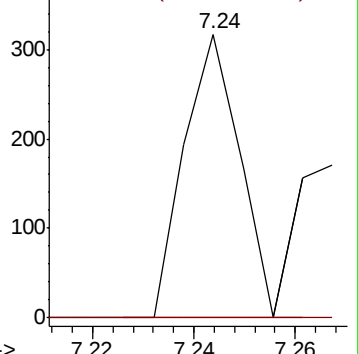
43 100

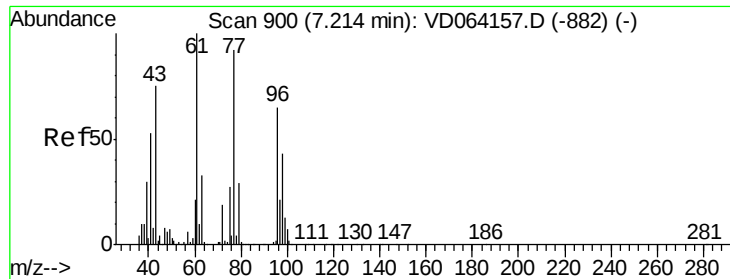
72 0.0 20.6 30.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 4.407 ug/l

RT: 7.11 min Scan# 882

Delta R.T. -0.11 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampled :

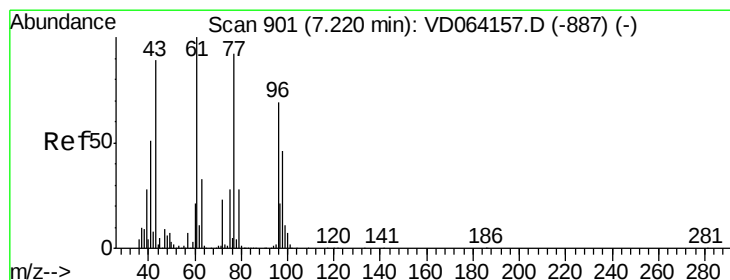
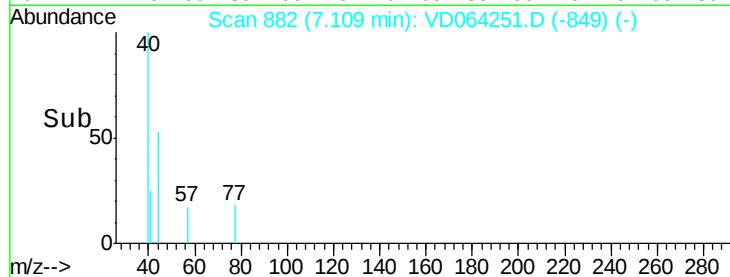
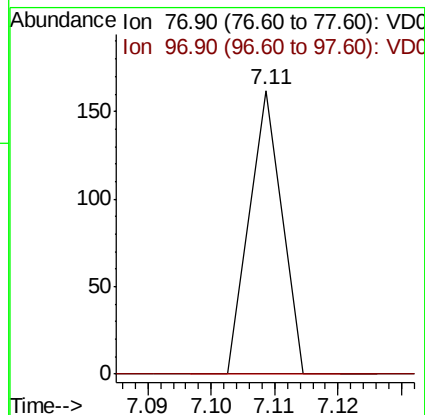
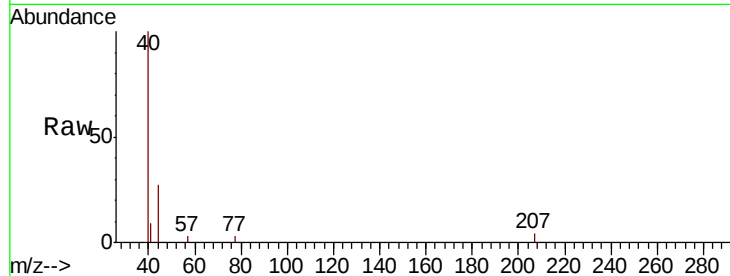
EP-9

Tot Ion: 77 Resp: 57

Ion Ratio Lower Upper

77 100

97 0.0 11.1 33.3#



#27

cis-1,2-Dichloroethene

Concen: 20.684 ug/l

RT: 7.11 min Scan# 883

Delta R.T. -0.11 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

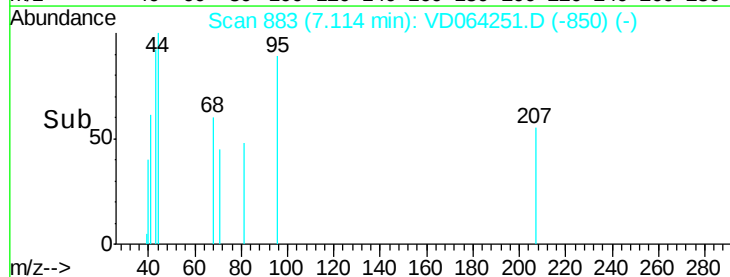
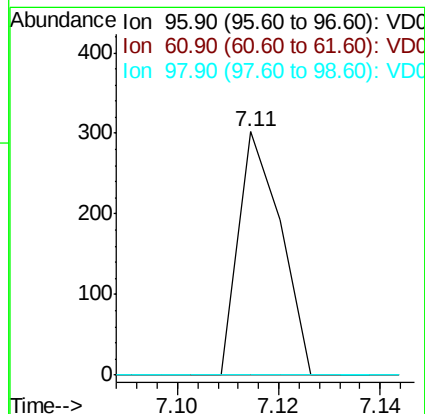
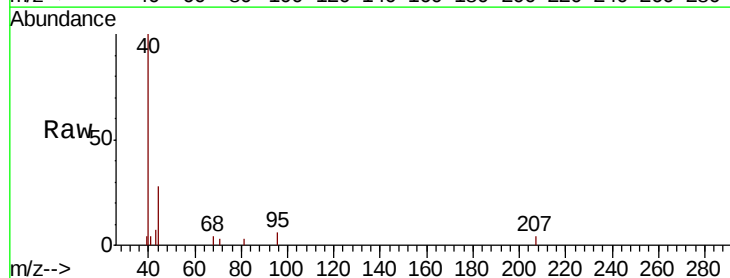
Tgt Ion: 96 Resp: 174

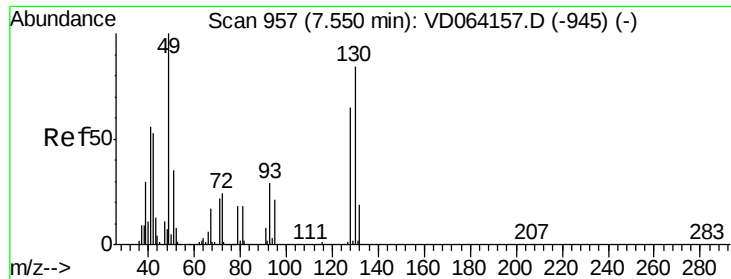
Ion Ratio Lower Upper

96 100

61 0.0 0.0 301.4

98 0.0 0.0 133.2





#28

Bromochloromethane

Concen: 14.374 ug/l

RT: 7.66 min Scan# 976

Delta R.T. 0.11 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

EP-9

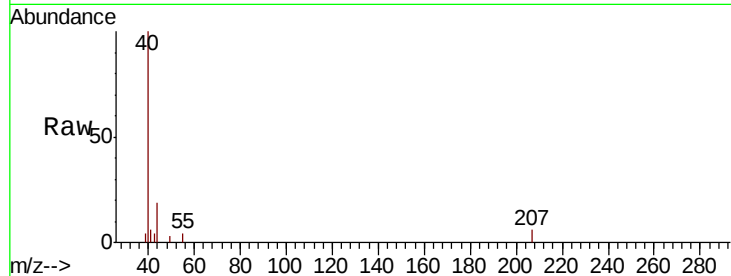
Tot Ion: 49 Resp: 66

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

130 0.0 66.8 100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC

7.66

250

200

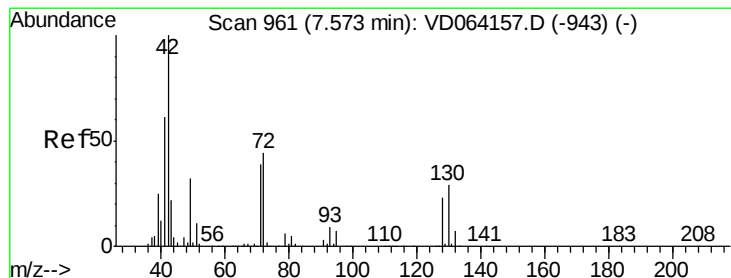
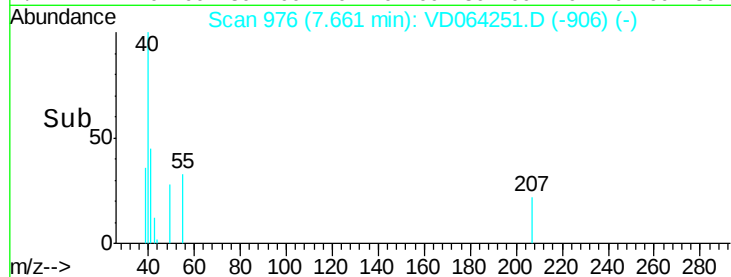
150

100

50

0

Time--> 7.64 7.65 7.66 7.67 7.68



#29

Tetrahydrofuran

Concen: 49.751 ug/l

RT: 7.59 min Scan# 964

Delta R.T. 0.02 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

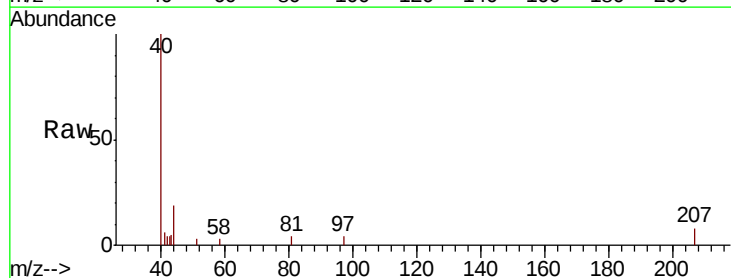
Tgt Ion: 42 Resp: 62

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.2#

71 0.0 31.0 46.4#



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

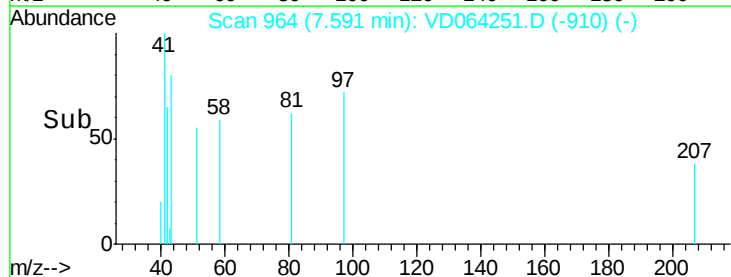
300

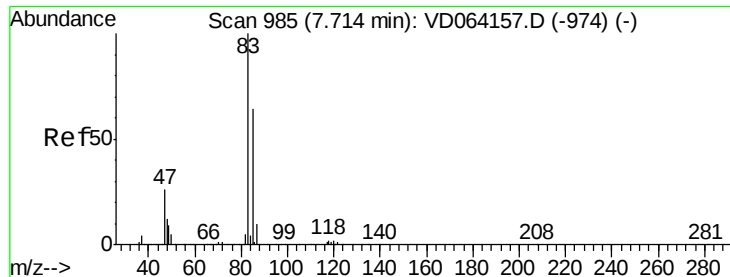
200

100

0

Time--> 7.57 7.58 7.59 7.60 7.61





#30

Chloroform

Concen: 4.299 ug/l

RT: 7.76 min Scan# 992

Delta R.T. 0.04 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

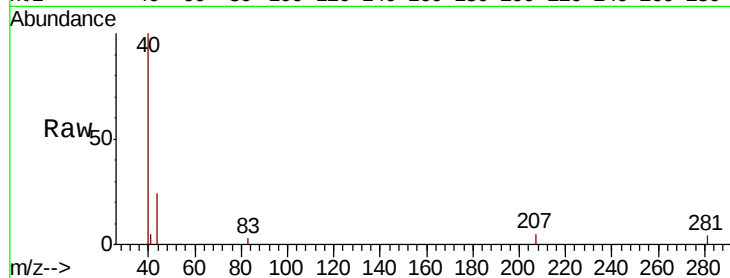
EP-9

Tot Ion: 83 Resp: 58

Ion Ratio Lower Upper

83 100

85 0.0 51.4 77.0#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

7.76

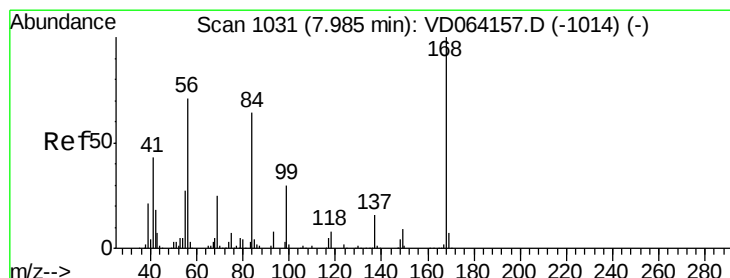
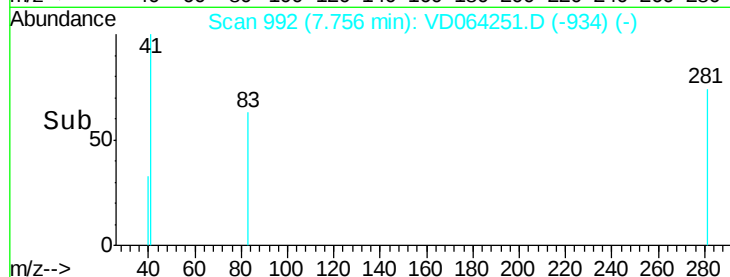
150

100

50

0

Time-->



#31

Cyclohexane

Concen: 8.796 ug/l

RT: 8.00 min Scan# 1033

Delta R.T. 0.01 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

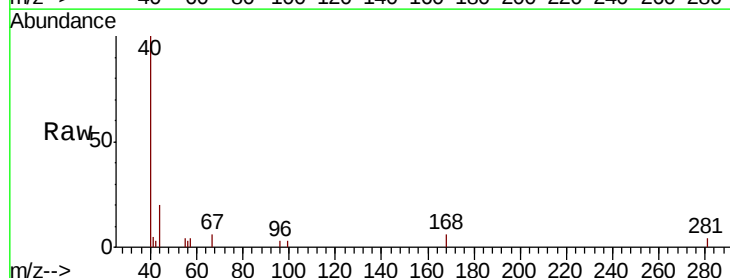
Tgt Ion: 56 Resp: 117

Ion Ratio Lower Upper

56 100

69 0.0 28.2 42.4#

84 0.0 71.8 107.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

250

200

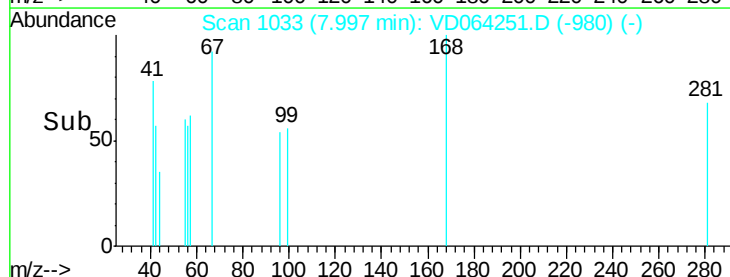
150

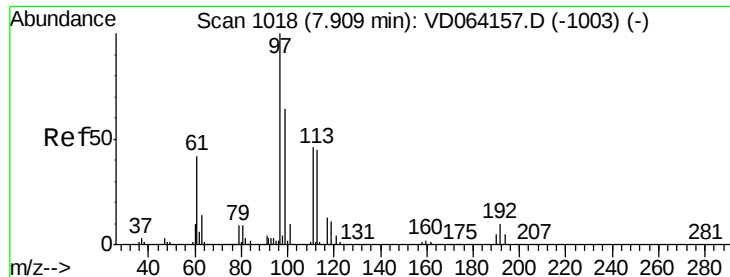
100

50

0

Time-->





#32

1,1,1-Trichloroethane

Concen: 4.335 ug/l

RT: 8.07 min Scan# 1045

Delta R.T. 0.16 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

EP-9

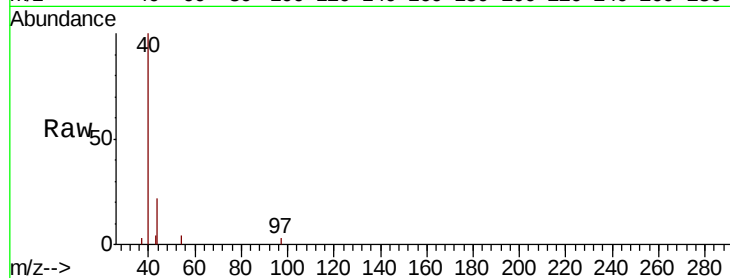
Tot Ion: 97 Resp: 56

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

61 0.0 34.2 51.2#



Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

8.07

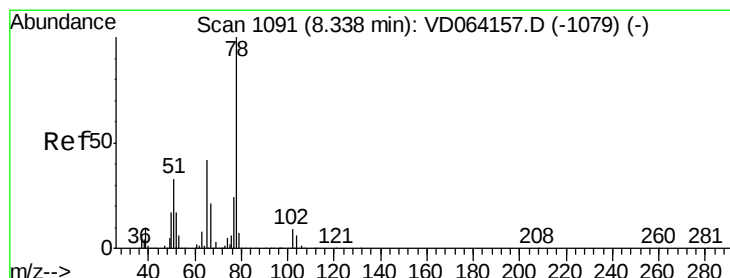
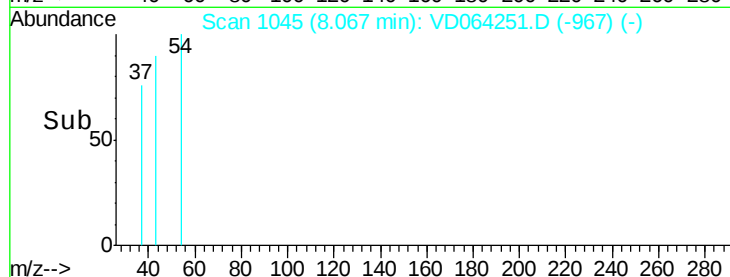
150

100

50

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 9.444 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD064251.D

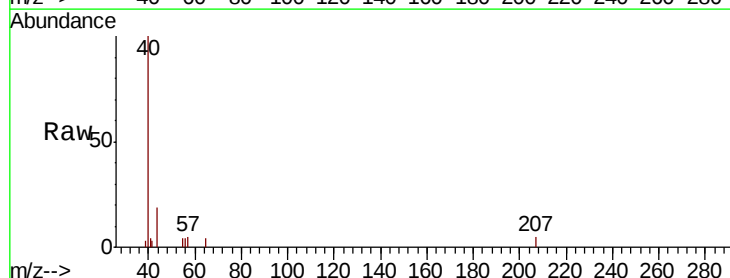
Acq: 16 Nov 2019 04:25

Tgt Ion: 65 Resp: 64

Ion Ratio Lower Upper

65 100

67 354.7 0.0 104.4#



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

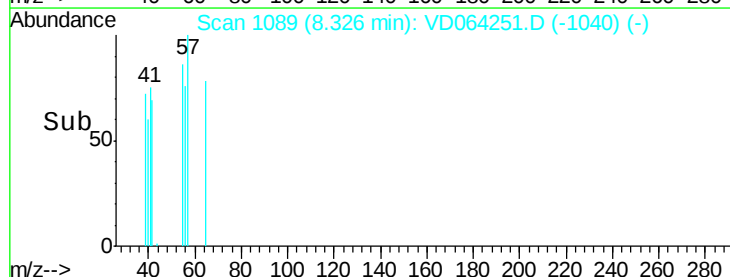
300

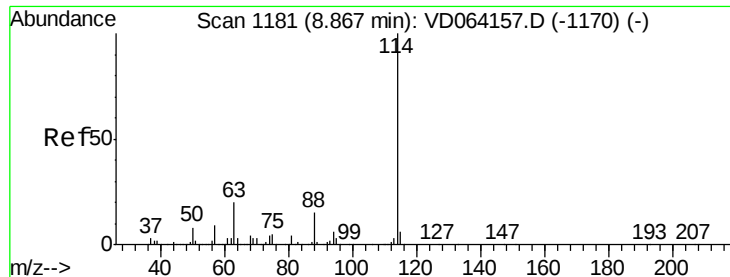
200

100

0

Time-->

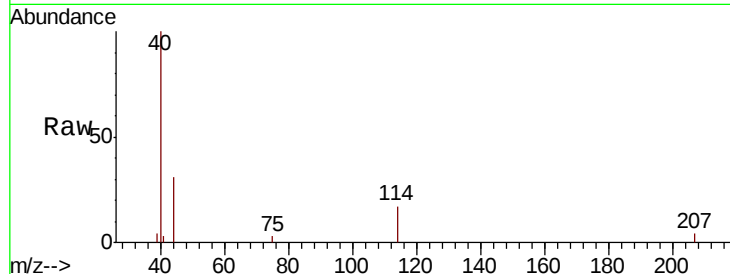




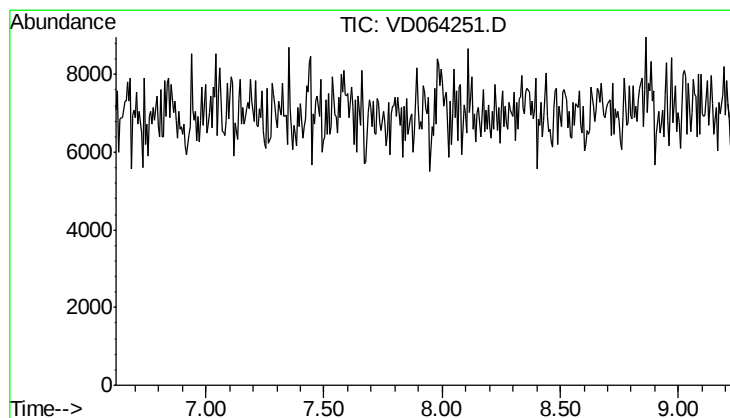
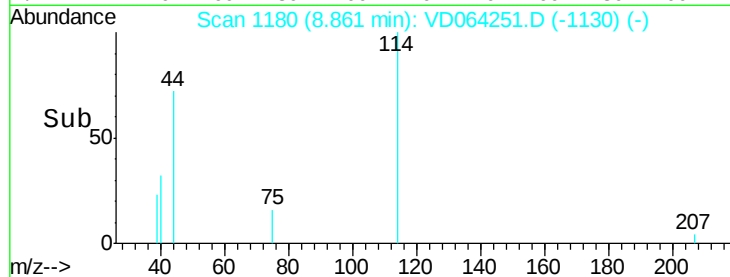
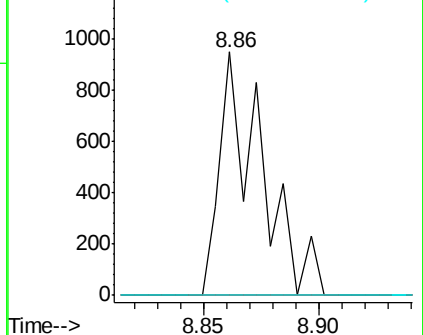
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. -0.01 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP-9

Tot Ion:114 Resp: 1183  
 Ion Ratio Lower Upper  
 114 100  
 63 0.0 0.0 40.0  
 88 0.0 0.0 30.2



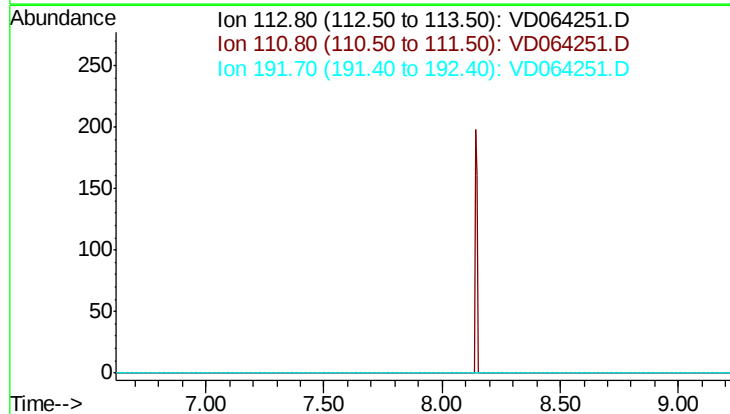
Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VDC  
 Ion 87.90 (87.60 to 88.60): VDC

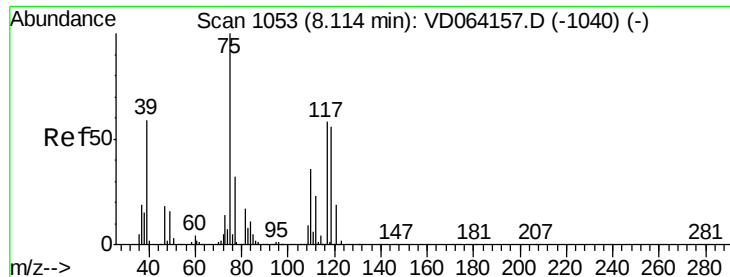


#35  
 Dibromofluoromethane  
 Concen: 0.000 ug/l  
 Expected RT: 7.92 min

Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

Tgt Ion: 113  
 Sig Exp Ratio  
 113 100  
 111 101.9  
 192 23.5

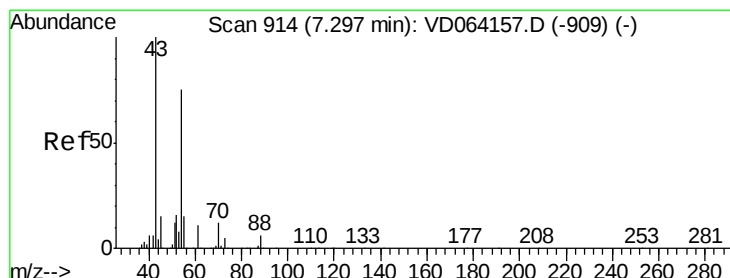
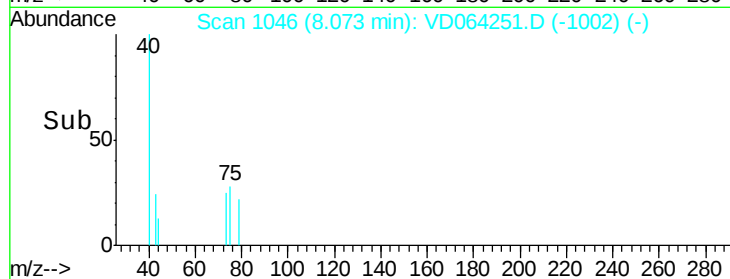
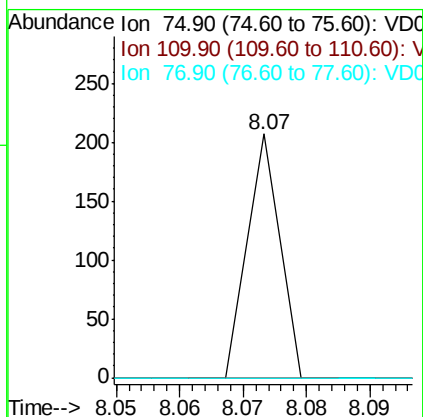
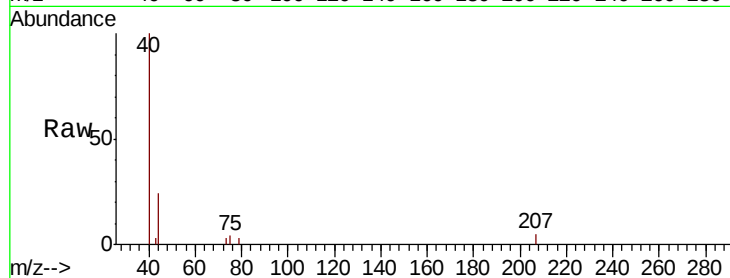




#36  
 1,1-Dichloropropene  
 Concen: 6.686 ug/l  
 RT: 8.07 min Scan# 1046  
 Delta R.T. -0.04 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

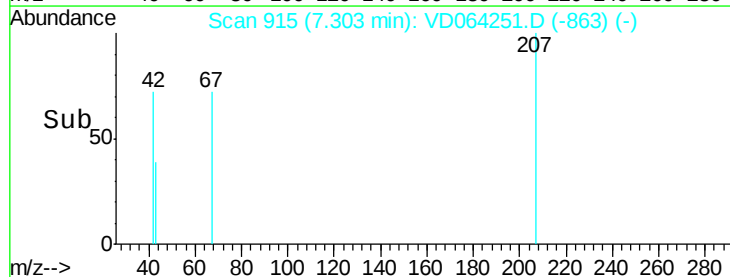
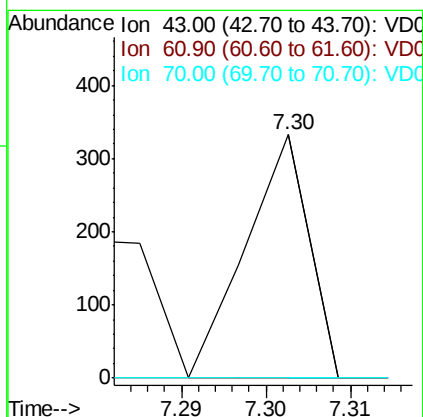
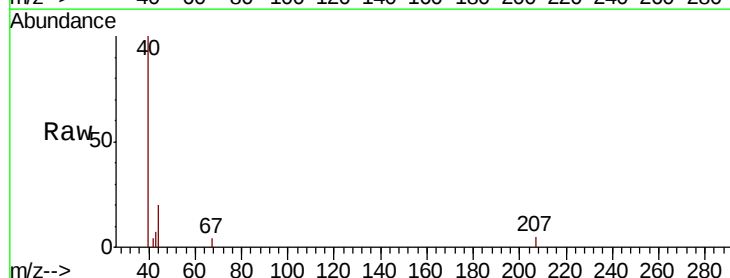
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 EP-9

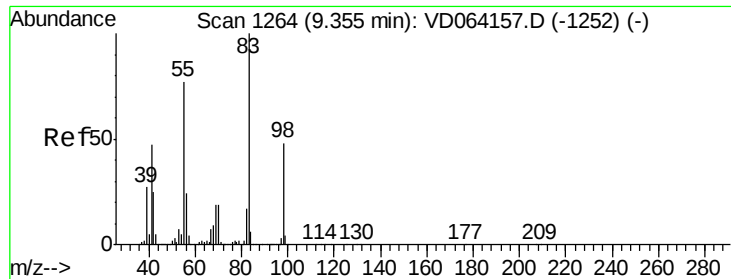
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 0.0   | 18.3  | 54.9# |
| 77      | 0.0   | 25.0  | 37.6# |



#37  
 Ethyl Acetate  
 Concen: 37.369 ug/l  
 RT: 7.30 min Scan# 915  
 Delta R.T. 0.01 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 10.2  | 15.2# |
| 70      | 0.0   | 8.5   | 12.7# |

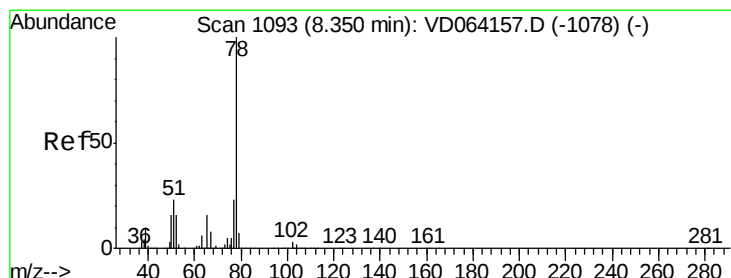
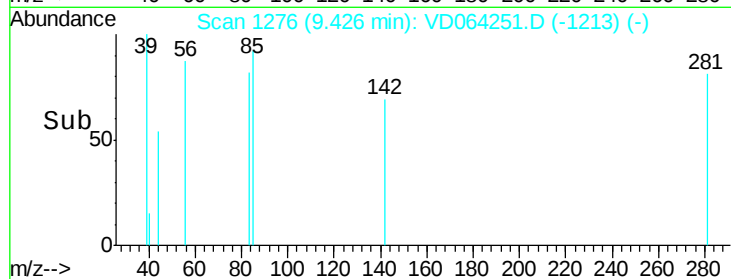
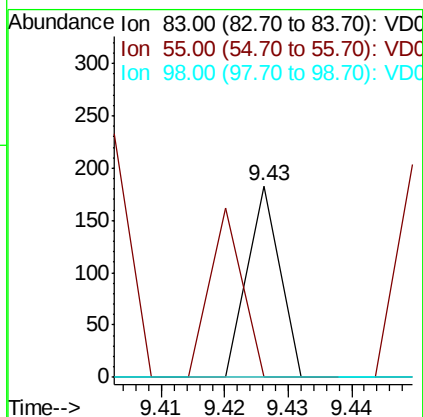
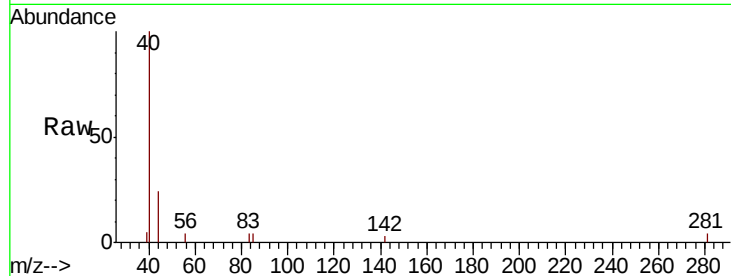




#39  
Methvlcvclohexane  
Concen: 4.705 ug/l  
RT: 9.43 min Scan# 1276  
Delta R.T. 0.07 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

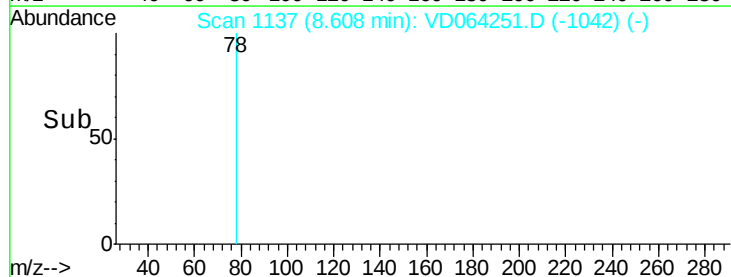
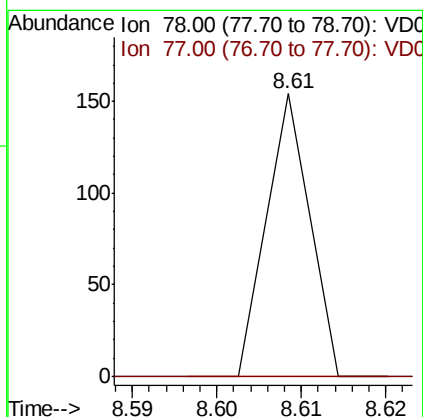
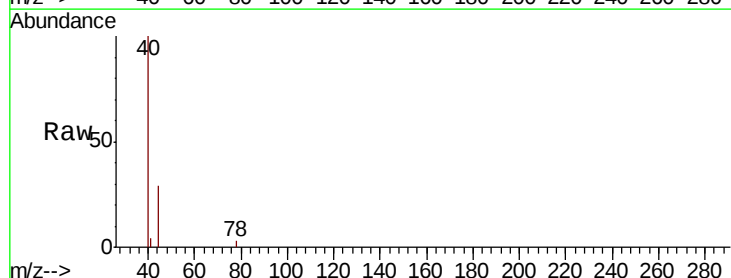
Instrument :  
MSVOA\_D  
ClientSampleId :  
EP-9

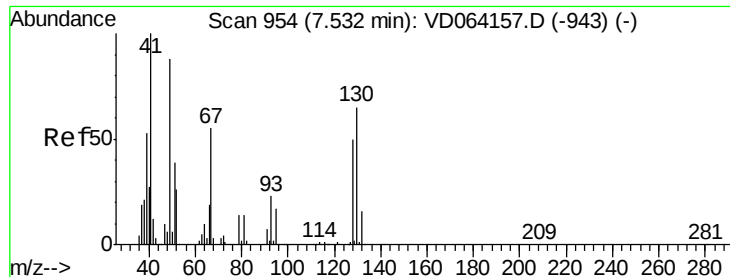
Tot Ion: 83 Resp: 65  
Ion Ratio Lower Upper  
83 100  
55 0.0 61.7 92.5#  
98 0.0 38.6 58.0#



#40  
Benzene  
Concen: 1.810 ug/l  
RT: 8.61 min Scan# 1137  
Delta R.T. 0.26 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

Tgt Ion: 78 Resp: 54  
Ion Ratio Lower Upper  
78 100  
77 0.0 18.6 28.0#

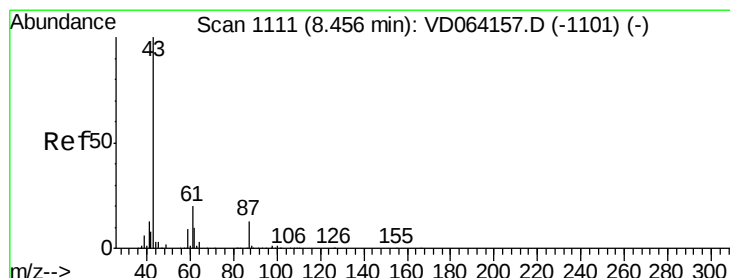
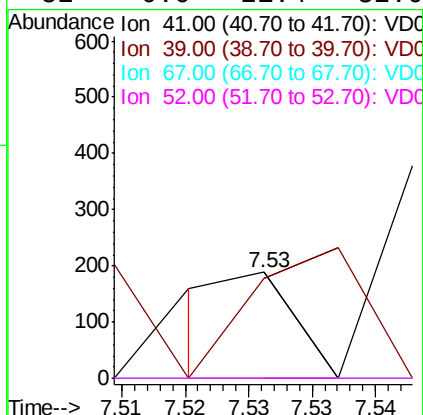
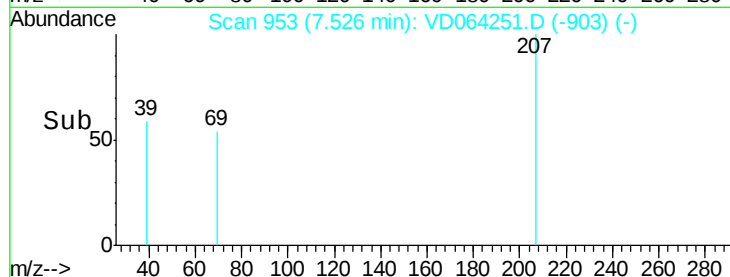
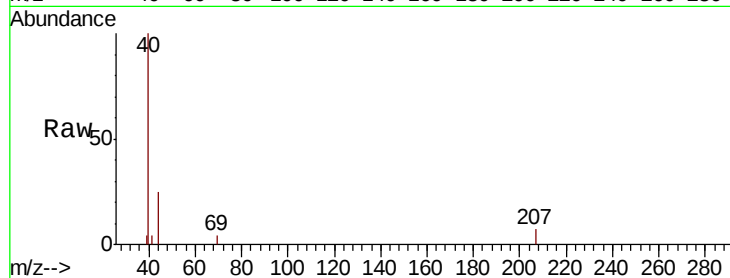




#41  
Methacrylonitrile  
Concen: 23.160 ug/l  
RT: 7.53 min Scan# 953  
Delta R.T. -0.01 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

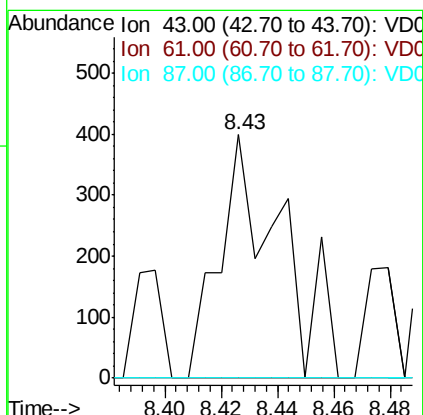
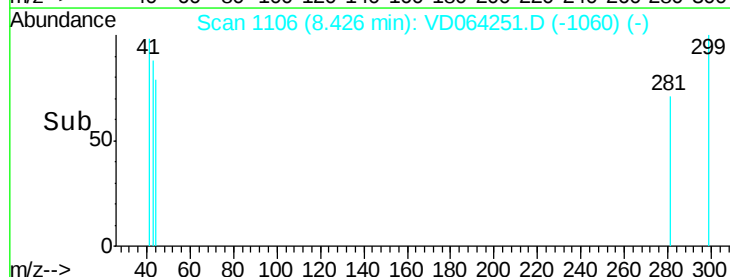
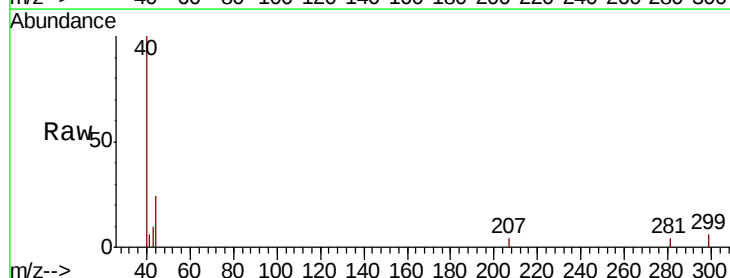
Instrument :  
MSVOA\_D  
ClientSampled :  
EP-9

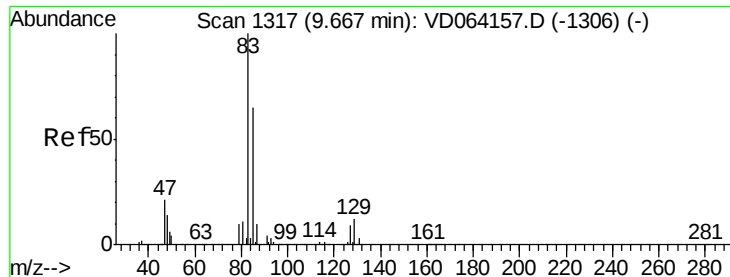
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 67    |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 49.4  | 74.2# |
| 67       | 0.0   | 49.6  | 74.4# |
| 52       | 0.0   | 21.4  | 32.0# |



#43  
Isopropyl Acetate  
Concen: 63.689 ug/l  
RT: 8.43 min Scan# 1106  
Delta R.T. -0.03 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 604   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 22.9  | 34.3# |
| 87       | 0.0   | 10.2  | 15.2# |





#47

Bromodichloromethane

Concen: 7.066 ug/l

RT: 9.73 min Scan# 1328

Delta R.T. 0.06 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

EP-9

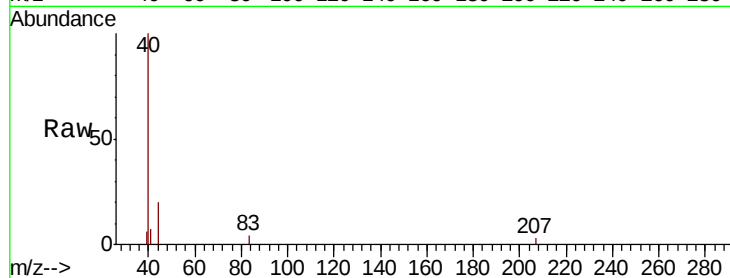
Tot Ion: 83 Resp: 74

Ion Ratio Lower Upper

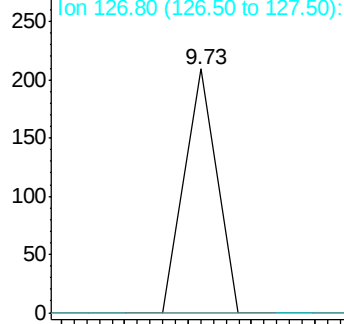
83 100

85 0.0 52.2 78.4#

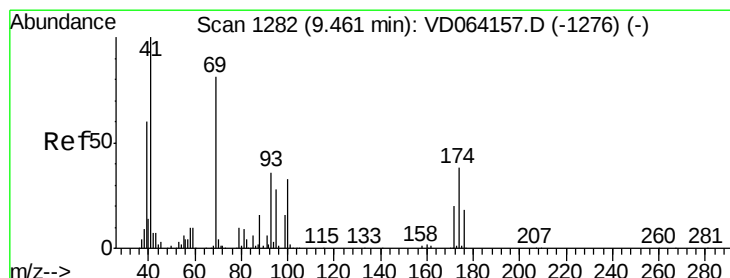
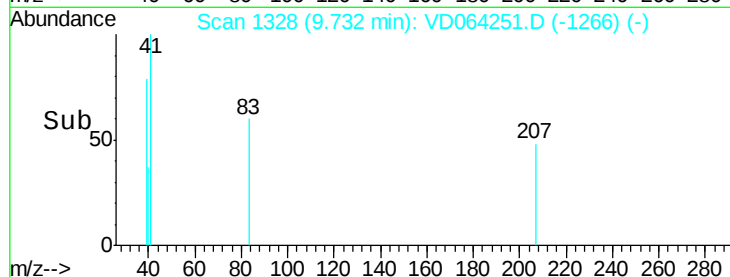
127 0.0 7.5 11.3#



Abundance Ion 82.90 (82.60 to 83.60): VDC  
Ion 84.90 (84.60 to 85.60): VDC  
Ion 126.80 (126.50 to 127.50): VDC



Time--> 9.71 9.72 9.73 9.74 9.75



#48

Methyl methacrylate

Concen: 102.862 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

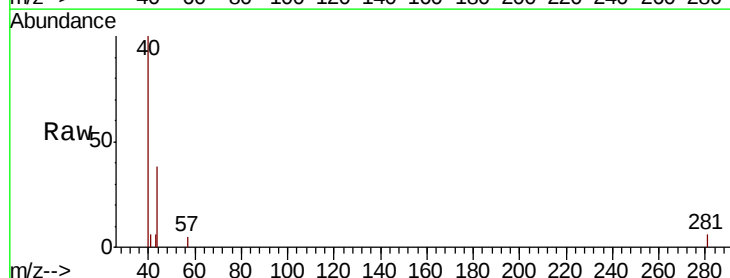
Tgt Ion: 41 Resp: 477

Ion Ratio Lower Upper

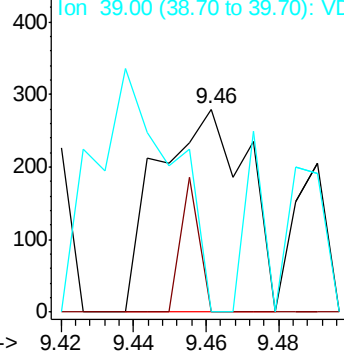
41 100

69 13.8 64.6 97.0#

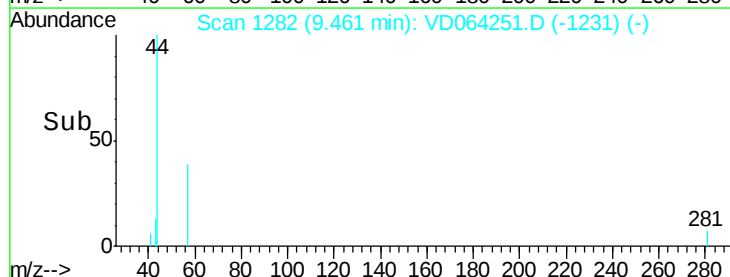
39 18.4 48.2 72.2#

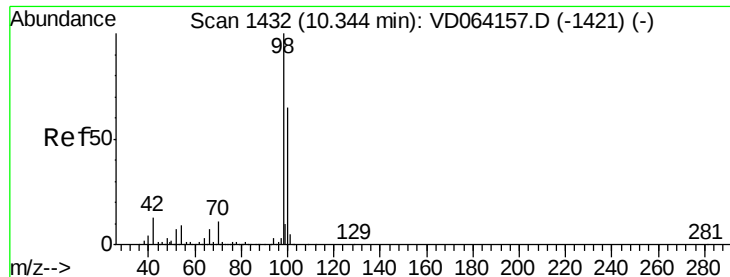


Abundance Ion 41.00 (40.70 to 41.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 39.00 (38.70 to 39.70): VDC



Time--> 9.42 9.44 9.46 9.48

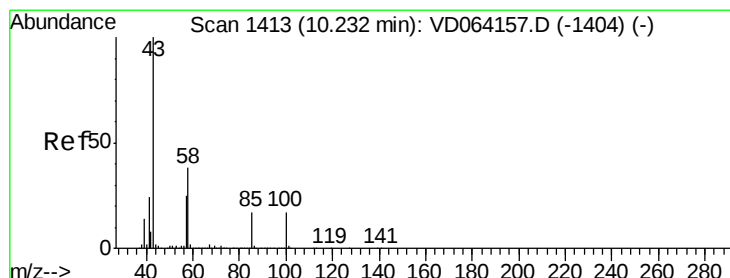
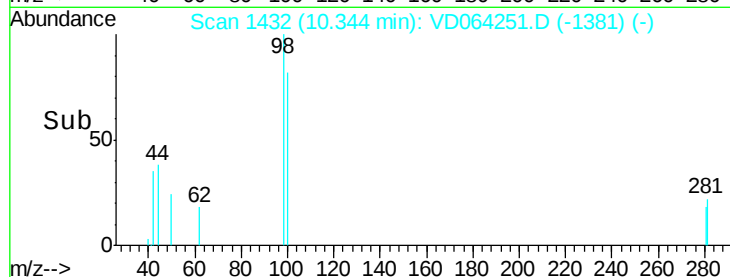
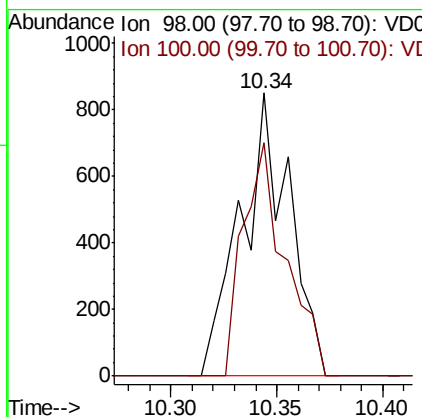
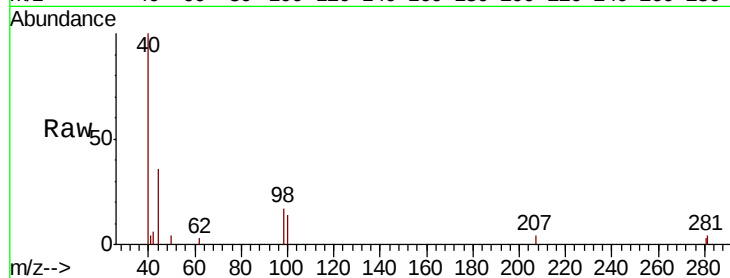




#50  
Toluene-d8  
Concen: 52.777 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

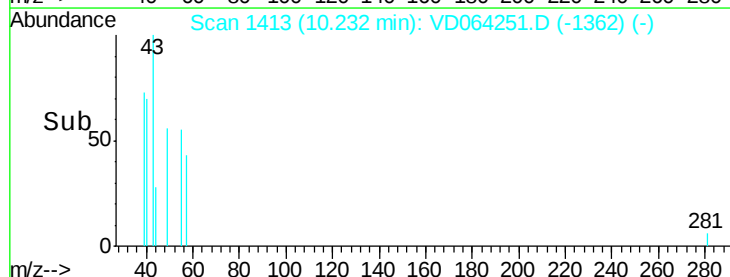
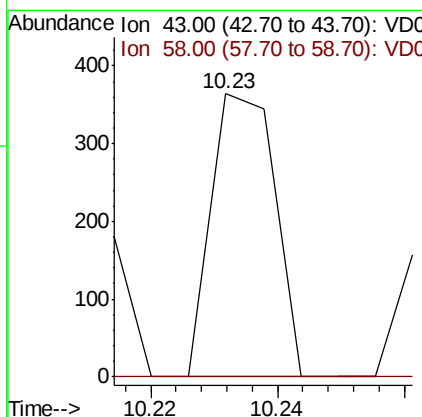
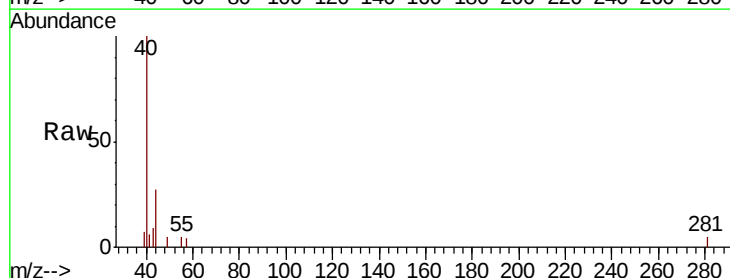
Instrument :  
MSVOA\_D  
ClientSampled :  
EP-9

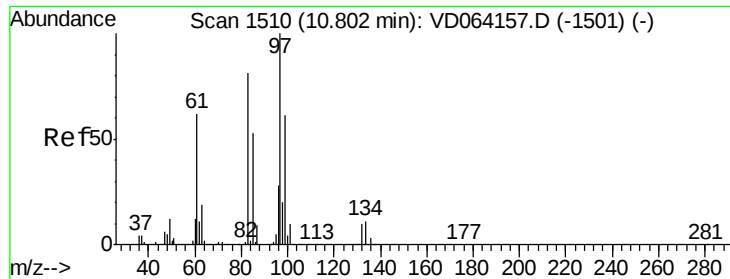
Tot Ion: 98 Resp: 1352  
Ion Ratio Lower Upper  
98 100  
100 72.0 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 54.971 ug/l  
RT: 10.23 min Scan# 1413  
Delta R.T. -0.00 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

Tgt Ion: 43 Resp: 250  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.2 45.4#

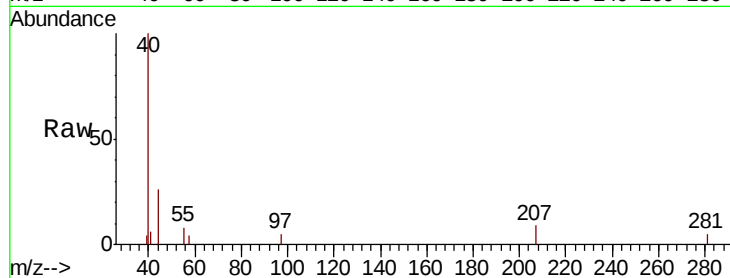




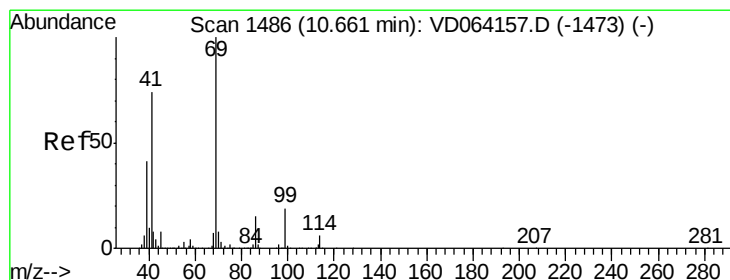
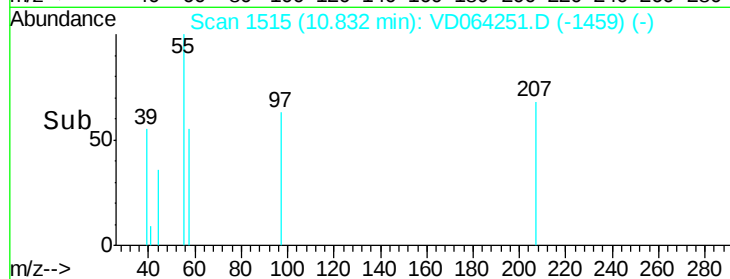
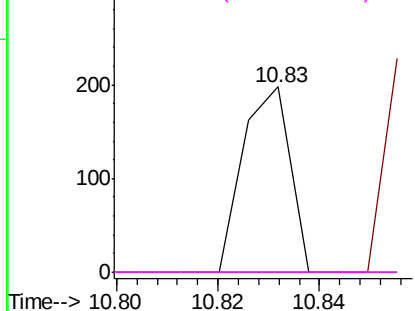
#55  
 1,1,2-Trichloroethane  
 Concen: 24.078 ug/l  
 RT: 10.83 min Scan# 1515  
 Delta R.T. 0.03 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP-9

Tot Ion: 97 Resp: 127  
 Ion Ratio Lower Upper  
 97 100  
 83 0.0 65.1 97.7#  
 85 0.0 42.0 63.0#  
 99 0.0 48.9 73.3#

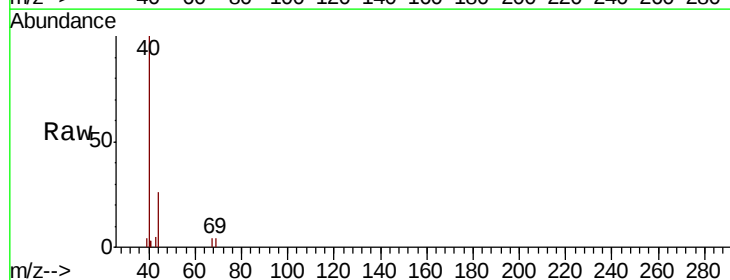


Abundance Ion 96.90 (96.60 to 97.60): VDC  
 Ion 82.90 (82.60 to 83.60): VDC  
 Ion 84.90 (84.60 to 85.60): VDC  
 Ion 98.90 (98.60 to 99.60): VDC

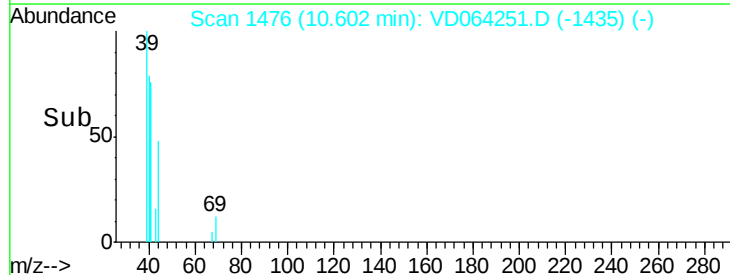
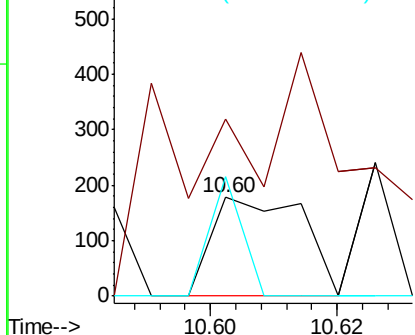


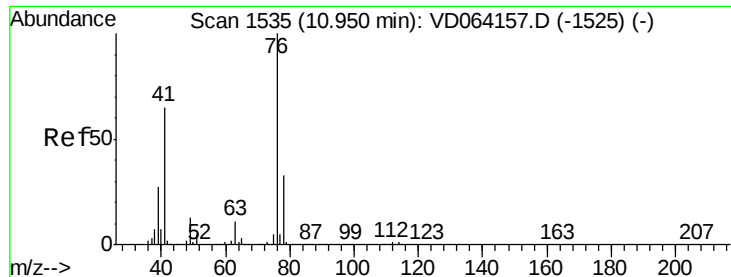
#56  
 Ethyl methacrylate  
 Concen: 23.853 ug/l  
 RT: 10.60 min Scan# 1476  
 Delta R.T. -0.06 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

Tgt Ion: 69 Resp: 176  
 Ion Ratio Lower Upper  
 69 100  
 41 475.0 57.9 86.9#  
 39 43.2 29.0 43.4



Abundance Ion 69.00 (68.70 to 69.70): VDC  
 Ion 41.00 (40.70 to 41.70): VDC  
 Ion 39.00 (38.70 to 39.70): VDC

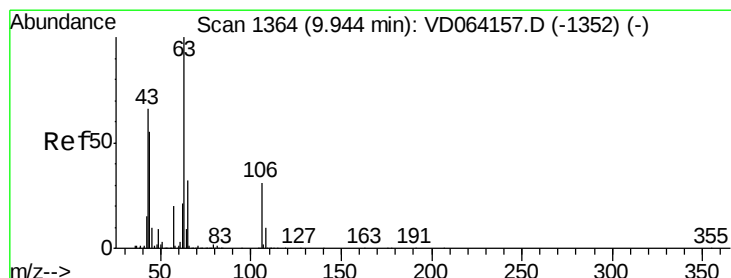
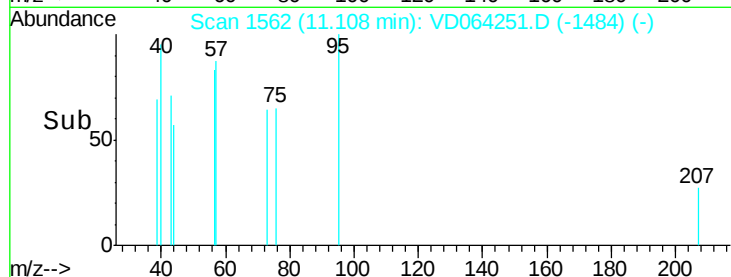
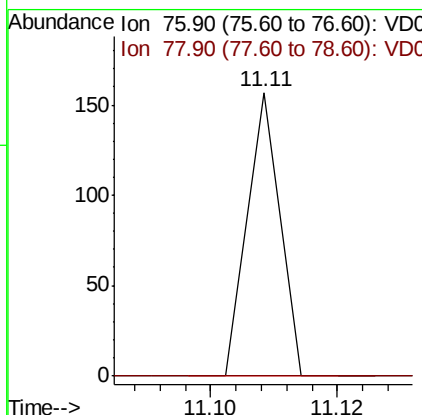
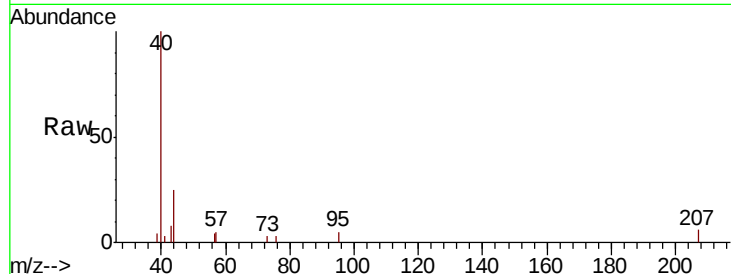




#57  
 1,3-Dichloropropane  
 Concen: 5.979 ug/l  
 RT: 11.11 min Scan# 1562  
 Delta R.T. 0.16 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

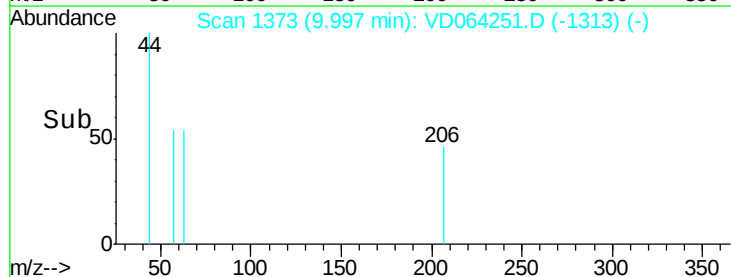
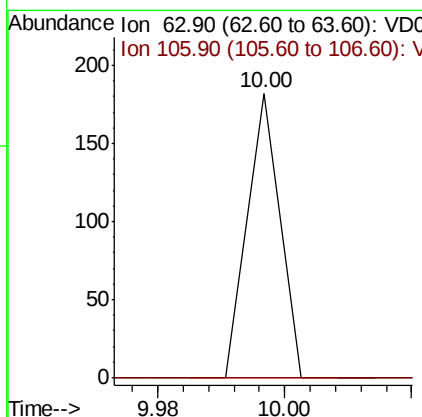
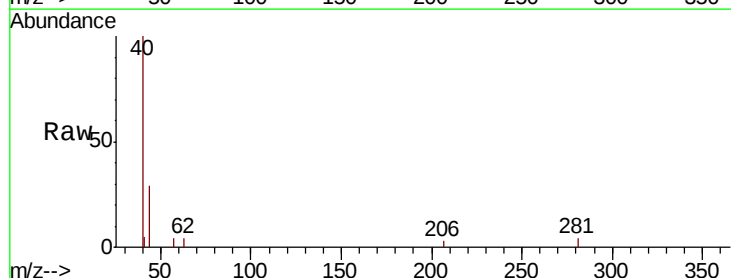
Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 EP-9

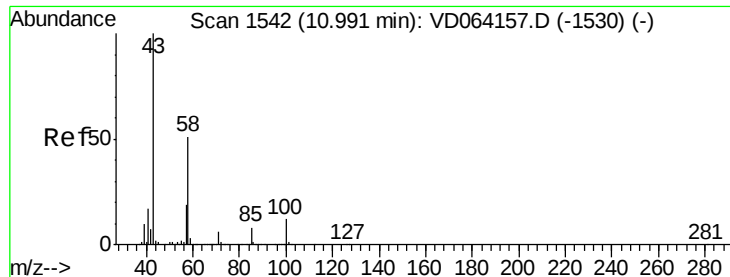
Tot Ion: 76 Resp: 55  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.2 39.4#



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 21.413 ug/l  
 RT: 10.00 min Scan# 1373  
 Delta R.T. 0.05 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

Tgt Ion: 63 Resp: 64  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 24.1 36.1#

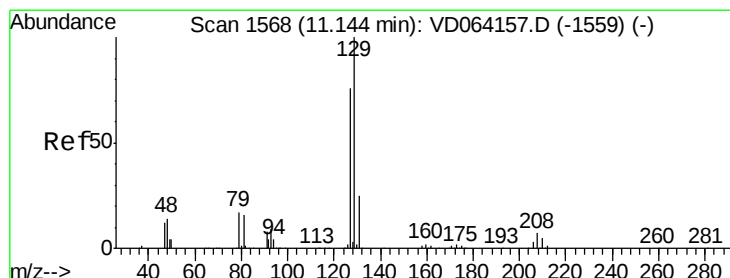
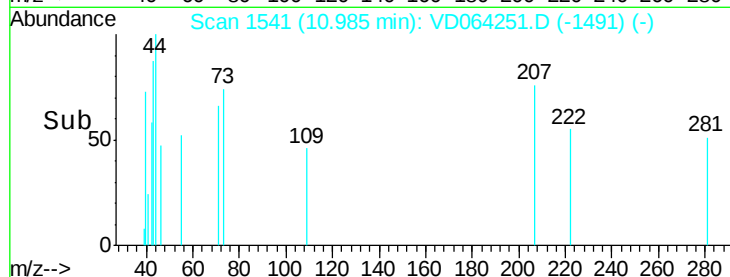
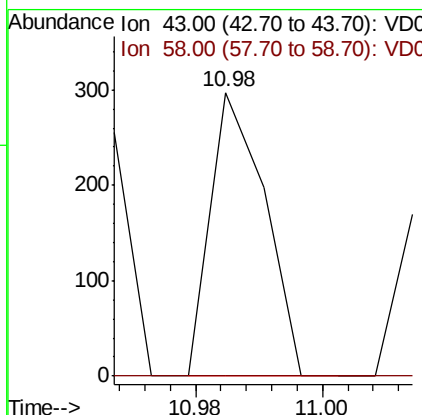
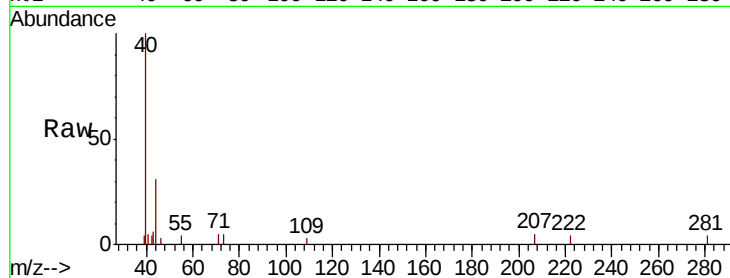




#59  
2-Hexanone  
Concen: 54.087 ug/l  
RT: 10.98 min Scan# 1541  
Delta R.T. -0.01 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

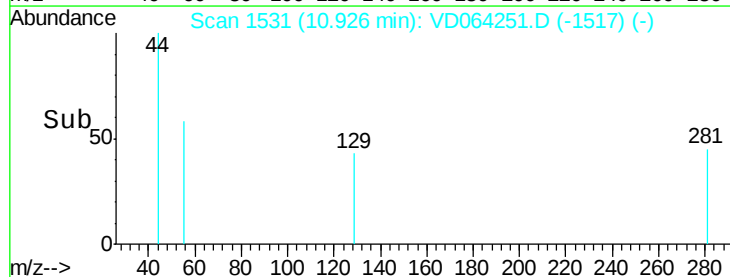
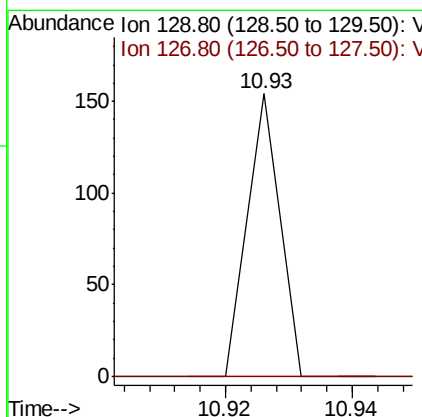
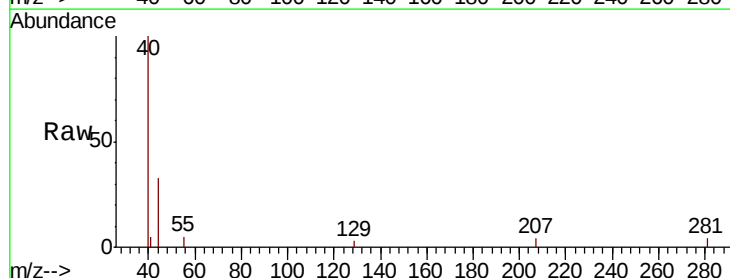
Instrument :  
MSVOA\_D  
ClientSampled :  
EP-9

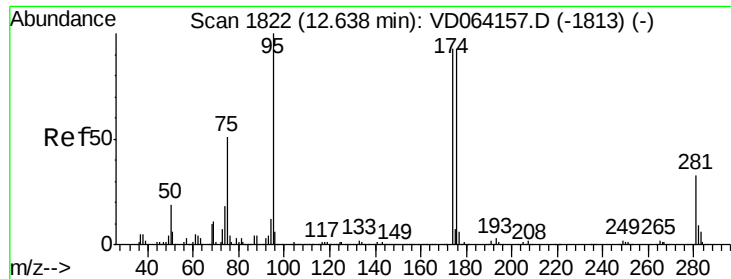
Tot Ion: 43 Resp: 175  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.9 77.7#



#60  
Dibromochloromethane  
Concen: 7.337 ug/l  
RT: 10.93 min Scan# 1531  
Delta R.T. -0.22 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

Tgt Ion: 129 Resp: 54  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 115.8#

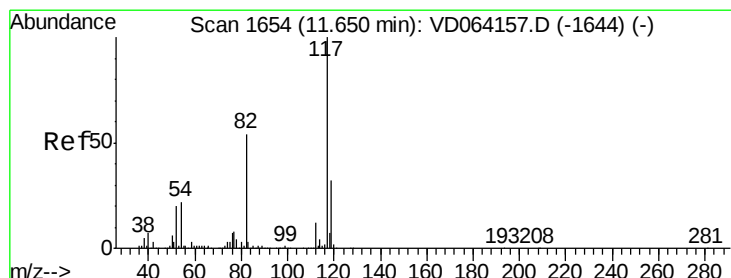
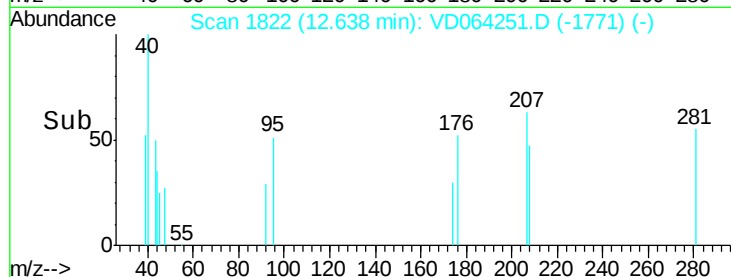
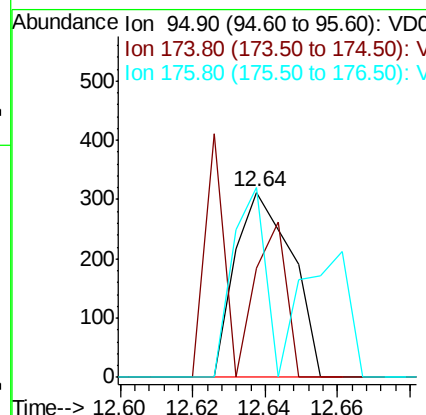
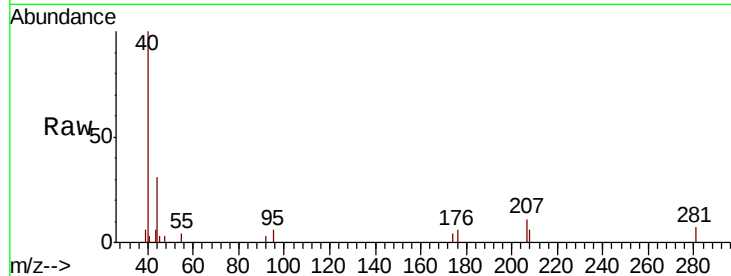




#62  
4-Bromofluorobenzene  
Concen: 38.551 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

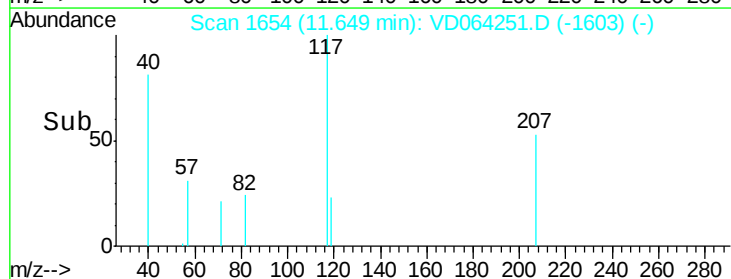
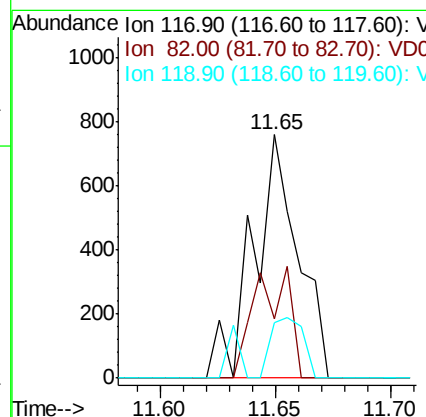
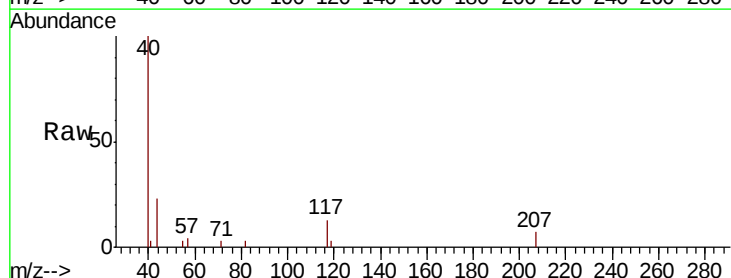
Instrument :  
MSVOA\_D  
ClientSampleId :  
EP-9

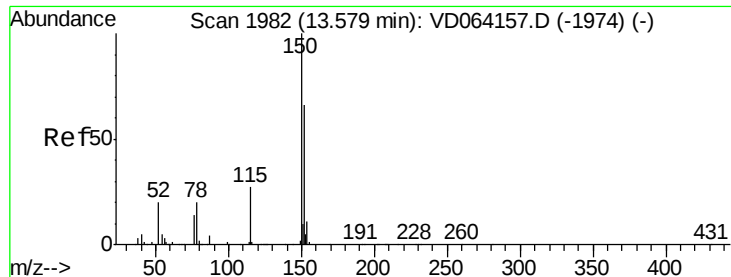
Tot Ion: 95 Resp: 342  
Ion Ratio Lower Upper  
95 100  
174 88.6 0.0 183.6  
176 58.8 0.0 180.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD064251.D  
Acq: 16 Nov 2019 04:25

Tgt Ion: 117 Resp: 1025  
Ion Ratio Lower Upper  
117 100  
82 24.4 42.8 64.2#  
119 22.9 25.6 38.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

EP-9

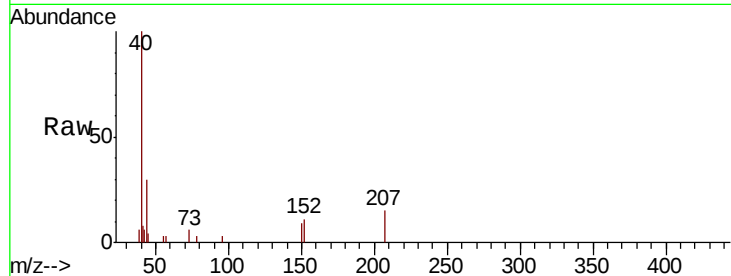
Tot Ion:152 Resp: 371

Ion Ratio Lower Upper

152 100

115 18.6 27.4 82.2#

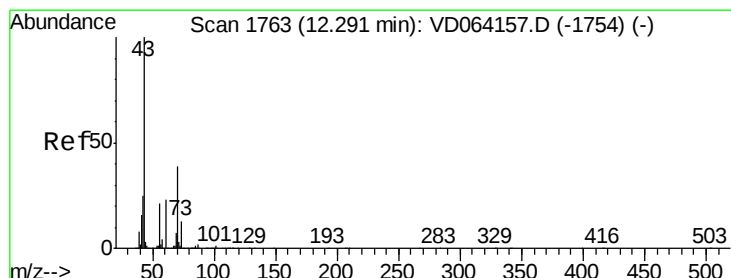
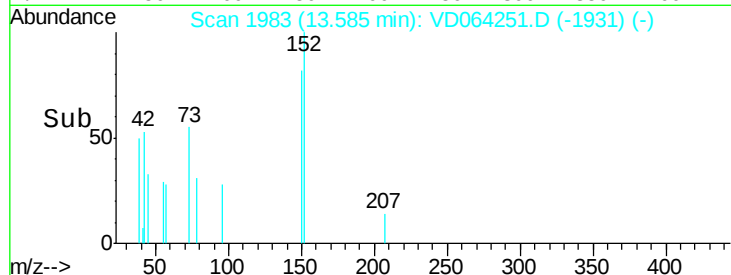
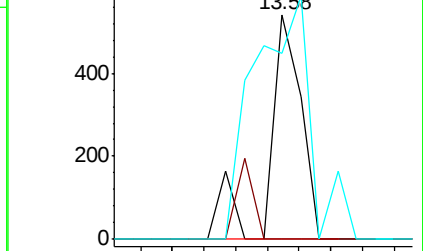
150 195.1 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 70.911 ug/l

RT: 12.28 min Scan# 1761

Delta R.T. -0.01 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Tgt Ion: 43 Resp: 456

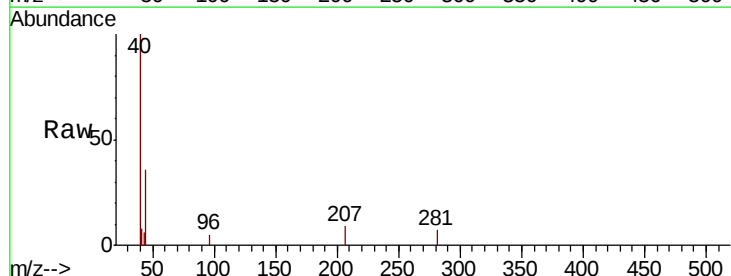
Ion Ratio Lower Upper

43 100

70 0.0 32.4 48.6#

55 12.5 17.9 26.9#

61 0.0 19.0 28.4#

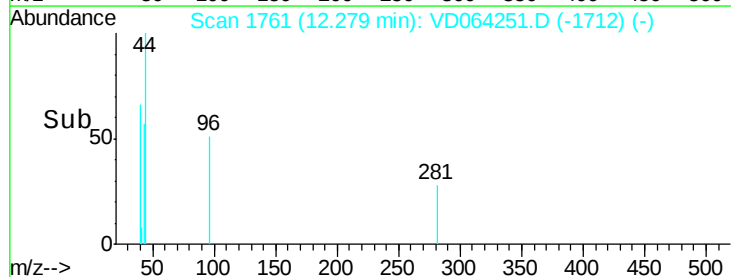
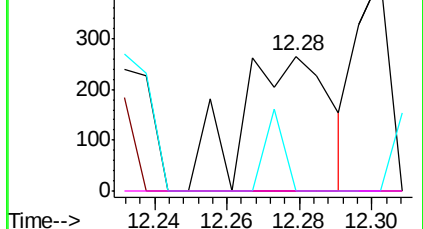


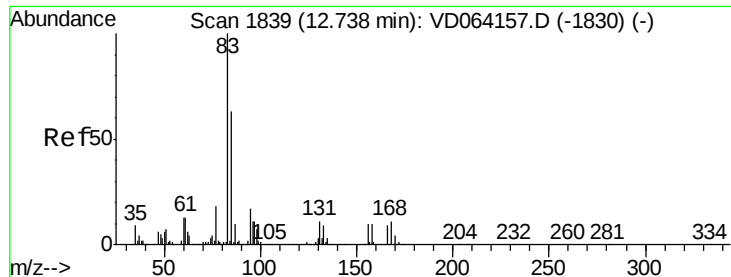
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 17.060 ug/l

RT: 12.62 min Scan# 1819

Delta R.T. -0.12 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

EP-9

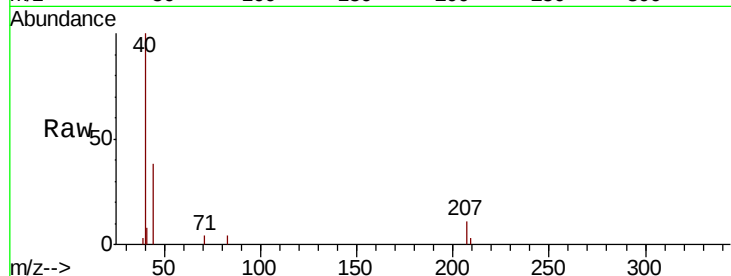
Tot Ion: 83 Resp: 70

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.7#

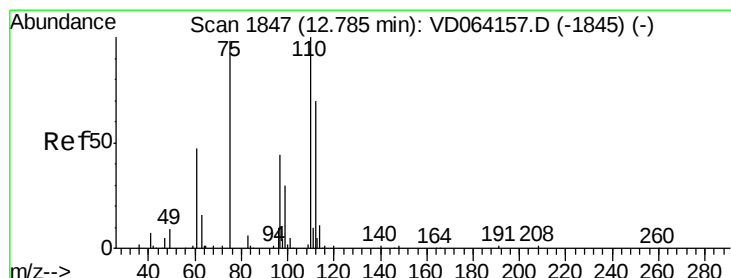
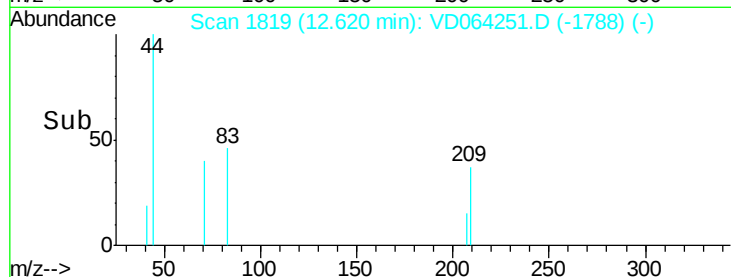
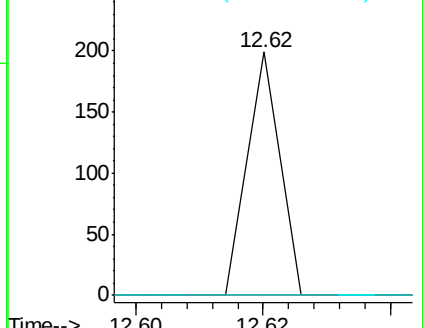
85 0.0 32.5 97.5#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 24.429 ug/l

RT: 13.04 min Scan# 1891

Delta R.T. 0.26 min

Lab File: VD064251.D

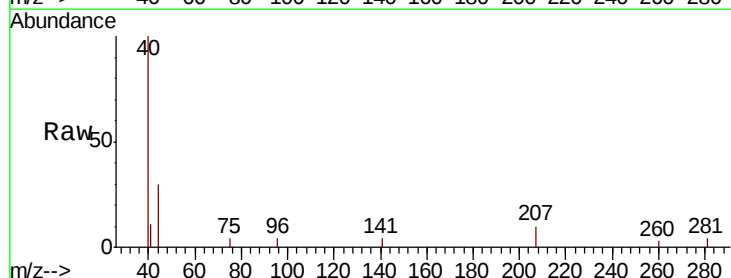
Acq: 16 Nov 2019 04:25

Tgt Ion: 75 Resp: 73

Ion Ratio Lower Upper

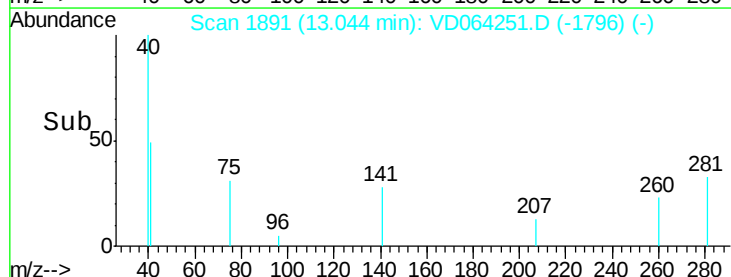
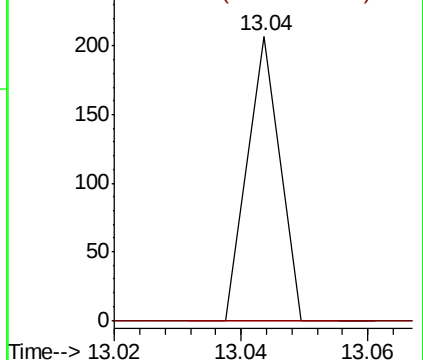
75 100

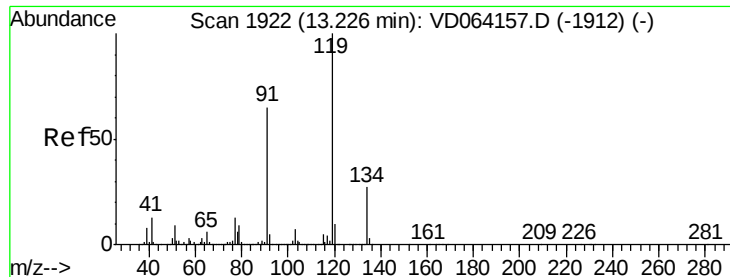
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#83

tert-Butylbenzene

Concen: 2.889 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.05 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

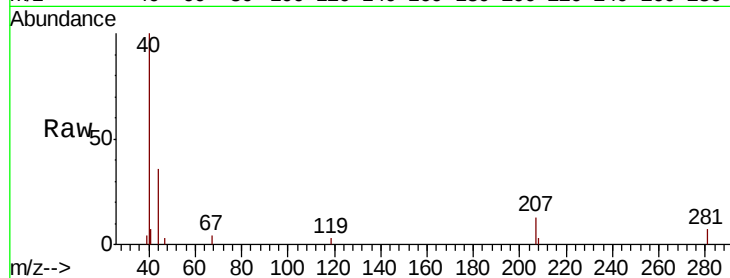
Instrument :

MSVOA\_D

ClientSampleId :

EP-9

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 119   | Resp: | 57    |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 0.0   | 31.8  | 95.4# |
| 134      | 0.0   | 13.7  | 41.0# |



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

13.28

150

100

50

0

13.26

13.28

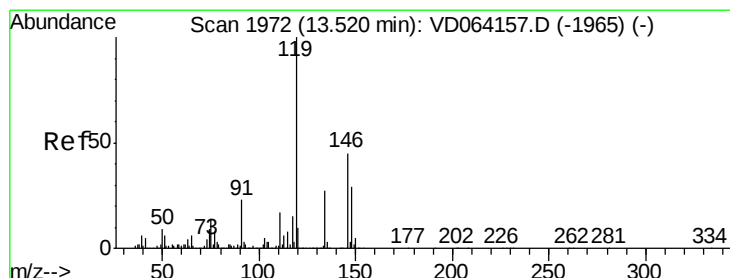
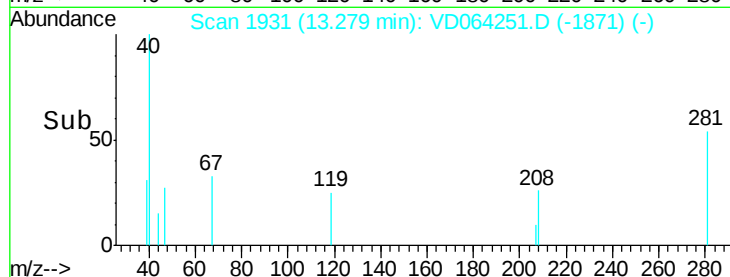
13.30

13.32

13.34

13.36

13.40



#86

p-Isopropyltoluene

Concen: 4.723 ug/l

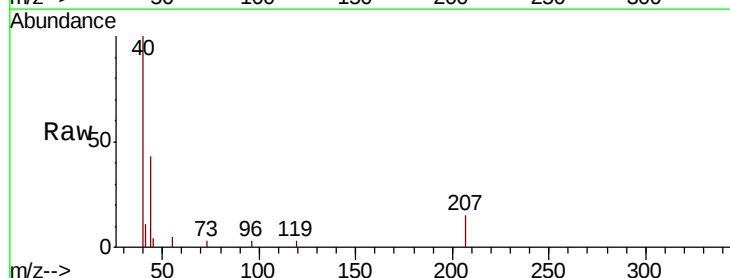
RT: 13.63 min Scan# 1990

Delta R.T. 0.11 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 119   |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 0.0   | 13.5  | 40.5# |
| 91       | 0.0   | 11.5  | 34.4# |



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.63

150

100

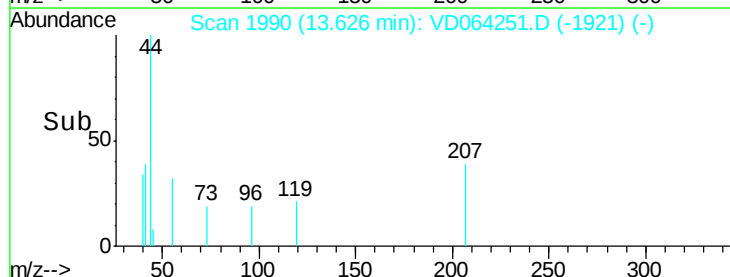
50

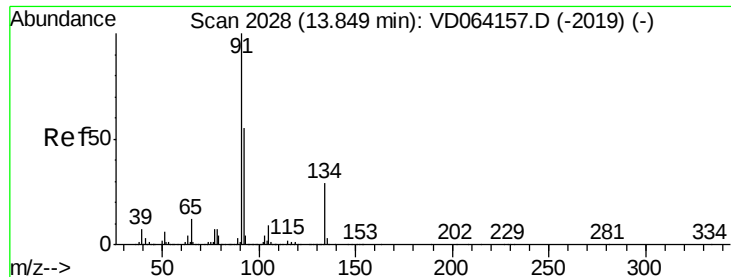
0

13.60

13.62

13.64





#89

n-Butylbenzene

Concen: 5.975 ug/l

RT: 13.84 min Scan# 2027

Delta R.T. -0.01 min

Lab File: VD064251.D

Acq: 16 Nov 2019 04:25

Instrument :

MSVOA\_D

ClientSampleId :

EP-9

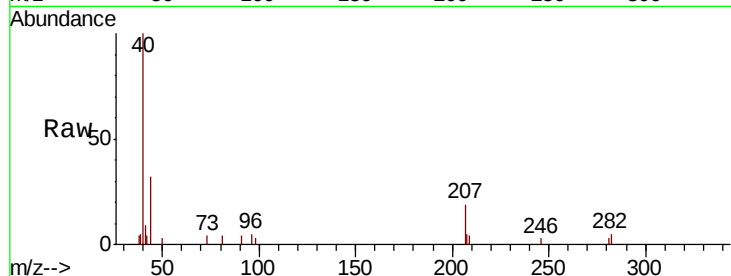
Tot Ion: 91 Resp: 136

Ion Ratio Lower Upper

91 100

92 0.0 27.3 81.8#

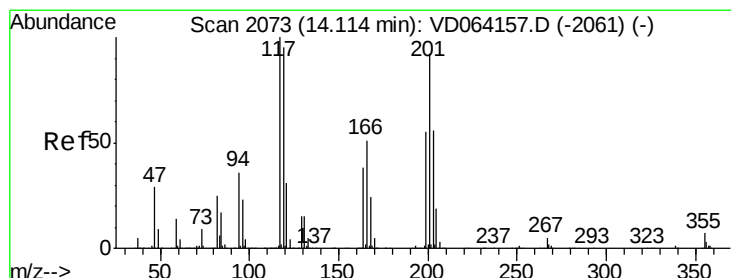
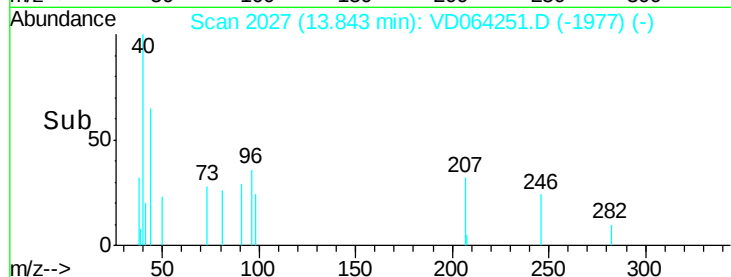
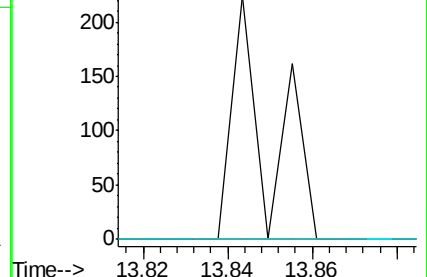
134 0.0 14.1 42.4#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): VDC



#90

Hexachloroethane

Concen: 12.027 ug/l

RT: 13.90 min Scan# 2037

Delta R.T. -0.21 min

Lab File: VD064251.D

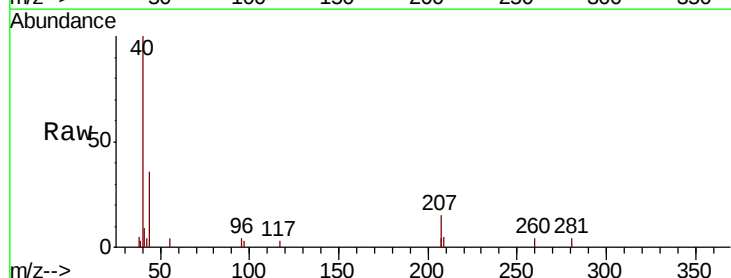
Acq: 16 Nov 2019 04:25

Tgt Ion: 117 Resp: 56

Ion Ratio Lower Upper

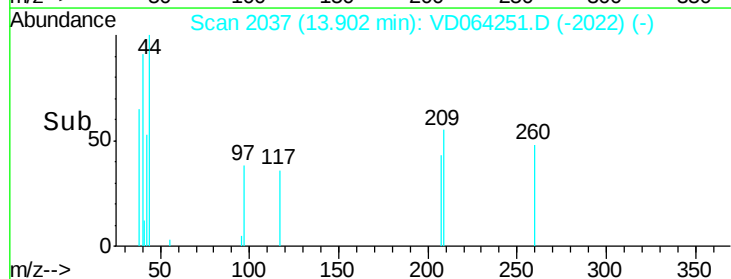
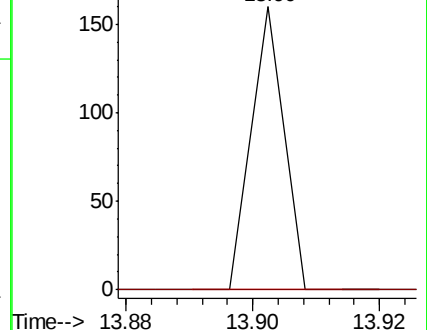
117 100

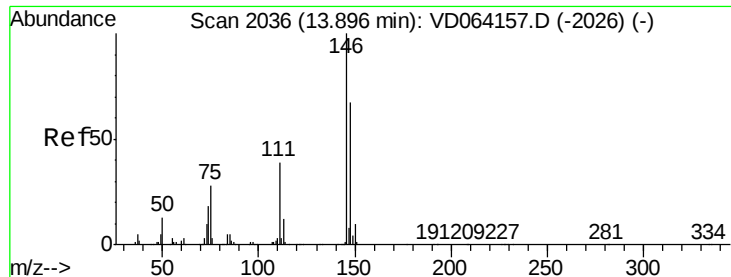
201 0.0 45.8 137.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

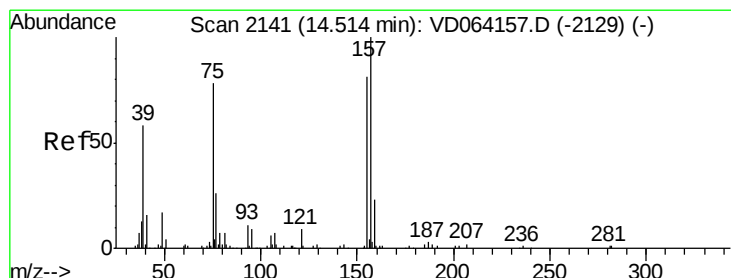
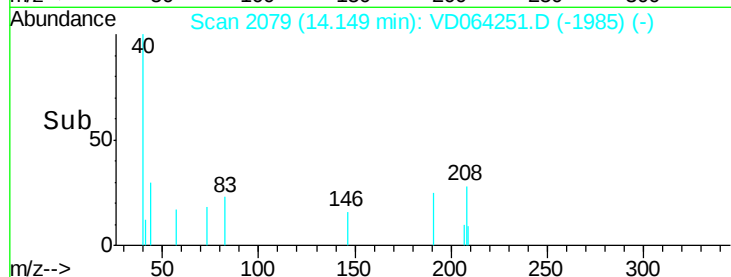
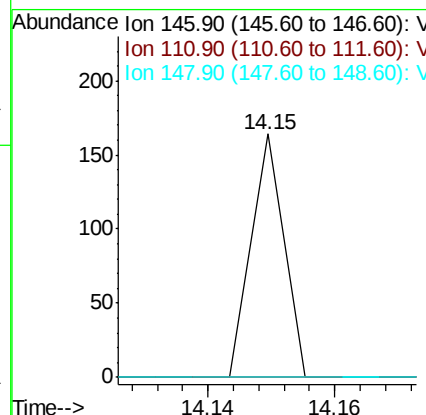
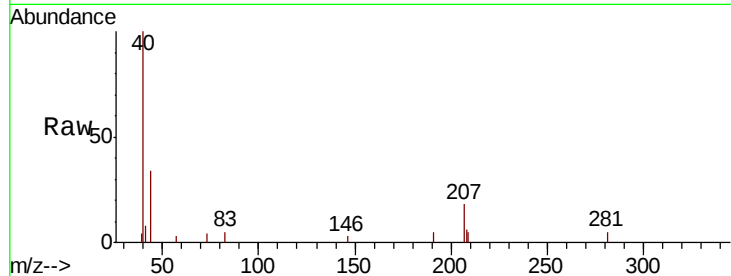




#91  
 1,2-Dichlorobenzene  
 Concen: 5.580 ug/l  
 RT: 14.15 min Scan# 2079  
 Delta R.T. 0.25 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 19.7  | 59.0# |
| 148     | 0.0   | 32.3  | 96.8# |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 73.606 ug/l  
 RT: 14.51 min Scan# 2140  
 Delta R.T. -0.01 min  
 Lab File: VD064251.D  
 Acq: 16 Nov 2019 04:25

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 0.0   | 48.0  | 144.0# |
| 157     | 0.0   | 61.5  | 184.4# |

