

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030119\  
 Data File : VF061818.D  
 Acq On : 1 Mar 2019 22:40  
 Operator : VA/AP  
 Sample : K1665-01RE  
 Misc : 6.12g/5mL/MSVOA-F/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 200051RE

Quant Time: Mar 02 02:48:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 14 03:27:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.86  | 168  | 5419     | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 8419     | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.77  | 117  | 5060     | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 1964     | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.84  | 65   | 1267     | 31.88  | ug/l   | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 63.76% |          |
| 35) Dibromofluoromethane    | 4.10  | 113  | 2067     | 33.06  | ug/l   | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 66.12% |          |
| 50) Toluene-d8              | 7.55  | 98   | 7601     | 42.29  | ug/l   | -0.01    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 84.58% |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 2154     | 29.62  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 59.24% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.10 | 85   | 66       | 1.061   | ug/l # | 43     |
| 3) Chloromethane              | 1.11 | 50   | 208      | 3.186   | ug/l # | 42     |
| 4) Vinyl Chloride             | 1.17 | 62   | 61       | 1.005   | ug/l # | 40     |
| 5) Bromomethane               | 1.29 | 94   | 151      | 3.615   | ug/l # | 3      |
| 7) Trichlorofluoromethane     | 1.55 | 101  | 88       | 1.202   | ug/l # | 20     |
| 8) Diethyl Ether              | 1.77 | 74   | 120      | 6.504   | ug/l   | 56     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.77 | 101  | 78       | 1.477   | ug/l # | 22     |
| 11) Tert butyl alcohol        | 2.40 | 59   | 75       | 32.611  | ug/l # | 1      |
| 12) 1,1-Dichloroethene        | 1.86 | 96   | 127      | 2.735   | ug/l # | 1      |
| 13) Acrolein                  | 1.94 | 56   | 383      | 132.506 | ug/l   | 87     |
| 14) Allyl chloride            | 2.12 | 41   | 944      | 16.567  | ug/l # | 61     |
| 15) Acrylonitrile             | 2.92 | 53   | 298      | 36.531  | ug/l # | 1      |
| 16) Acetone                   | 2.24 | 43   | 708      | 83.039  | ug/l # | 46     |
| 18) Methyl Acetate            | 2.28 | 43   | 1033     | 53.782  | ug/l # | 59     |
| 19) Methyl tert-butyl Ether   | 2.44 | 73   | 159      | 2.004   | ug/l # | 1      |
| 20) Methylene Chloride        | 2.17 | 84   | 508      | 9.055   | ug/l # | 37     |
| 21) trans-1,2-Dichloroethene  | 2.28 | 96   | 86       | 1.704   | ug/l # | 1      |
| 22) Diisopropyl ether         | 2.77 | 45   | 1001     | 7.318   | ug/l # | 11     |
| 23) Vinyl Acetate             | 3.16 | 43   | 257      | 3.847   | ug/l # | 74     |
| 24) 1,1-Dichloroethane        | 2.90 | 63   | 159      | 1.921   | ug/l # | 86     |
| 25) 2-Butanone                | 4.32 | 43   | 617      | 33.130  | ug/l # | 55     |
| 26) 2,2-Dichloropropane       | 3.59 | 77   | 67       | 1.911   | ug/l # | 52     |
| 27) cis-1,2-Dichloroethene    | 3.45 | 96   | 93       | 1.404   | ug/l   | 1      |
| 29) Tetrahydrofuran           | 4.08 | 42   | 128      | 15.122  | ug/l # | 33     |
| 32) 1,1,1-Trichloroethane     | 4.11 | 97   | 67       | 1.087   | ug/l # | 22     |
| 37) Ethyl Acetate             | 4.14 | 43   | 250      | 6.454   | ug/l # | 30     |
| 41) Methacrylonitrile         | 4.72 | 41   | 319      | 16.103  | ug/l # | 25     |
| 43) Isopropyl Acetate         | 6.94 | 43   | 100      | 2.181   | ug/l # | 43     |
| 45) 1,2-Dichloropropane       | 6.10 | 63   | 61       | 1.157   | ug/l # | 44     |
| 46) Dibromomethane            | 6.11 | 93   | 80       | 2.464   | ug/l # | 1      |
| 48) Methyl methacrylate       | 6.69 | 41   | 144      | 5.219   | ug/l # | 33     |
| 49) 1,4-Dioxane               | 7.02 | 88   | 71       | 273.712 | ug/l # | 20     |
| 51) 4-Methyl-2-Pentanone      | 8.26 | 43   | 85       | 2.594   | ug/l # | 34     |
| 55) 1,1,2-Trichloroethane     | 8.37 | 97   | 73       | 1.878   | ug/l # | 16     |

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Quant Time: Mar 02 02:48:45 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 14 03:27:56 2019  
Response via : Initial Calibration

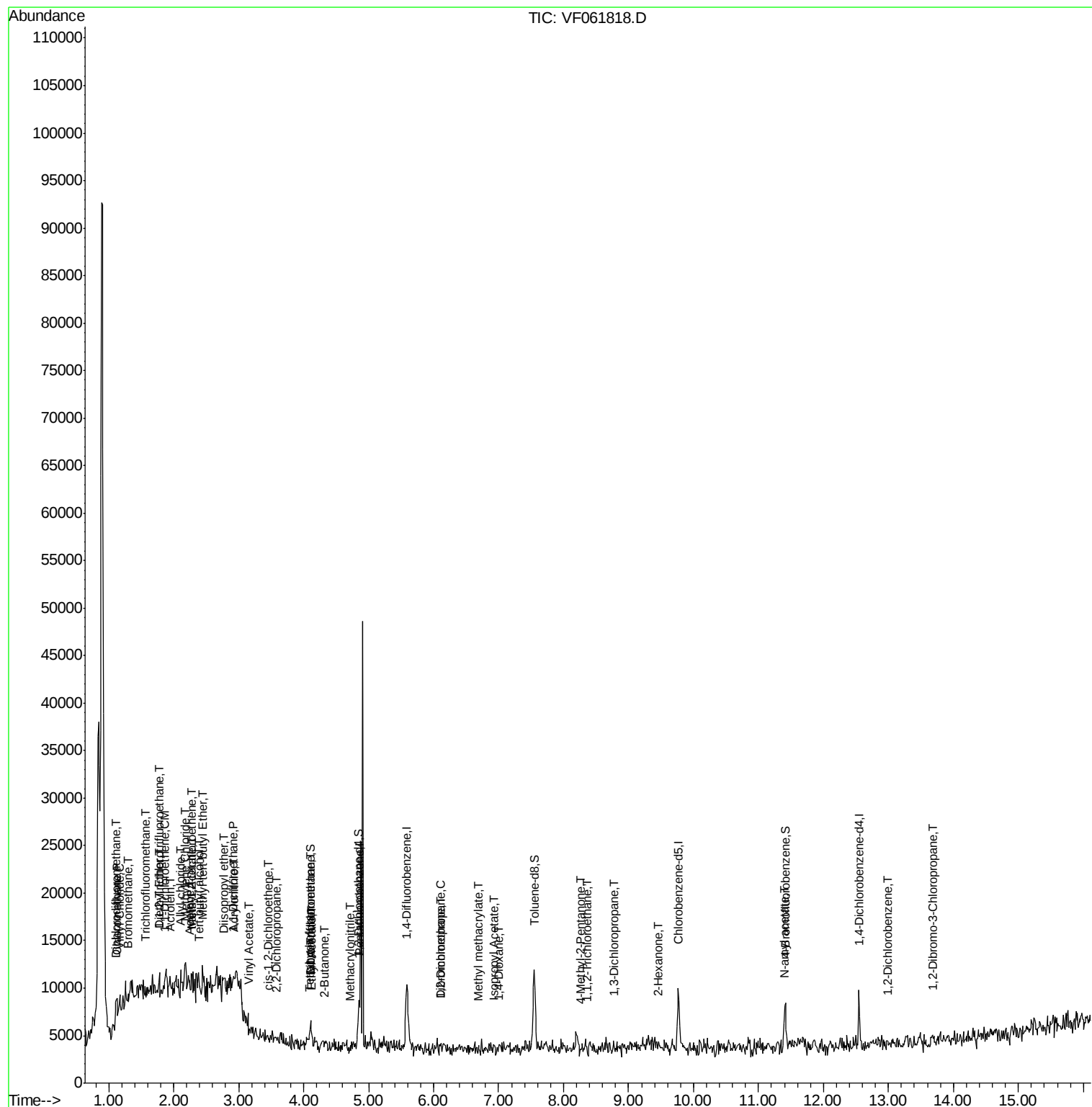
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 57) 1,3-Dichloropropane        | 8.77  | 76   | 82       | 1.264  | ug/l # | 40       |
| 59) 2-Hexanone                 | 9.46  | 43   | 80       | 3.483  | ug/l # | 23       |
| 74) N-amyl acetate             | 11.38 | 43   | 179      | 5.333  | ug/l # | 44       |
| 91) 1,2-Dichlorobenzene        | 12.99 | 146  | 82       | 1.280  | ug/l # | 24       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.67 | 75   | 72       | 18.127 | ug/l # | 1        |

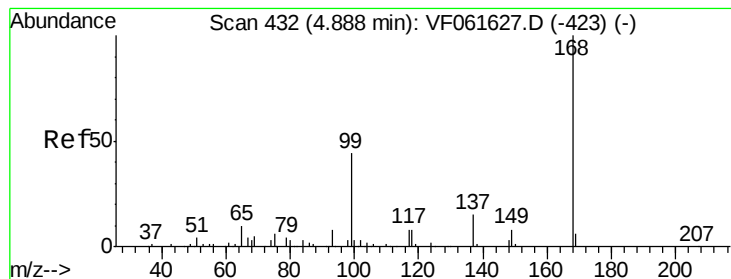
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

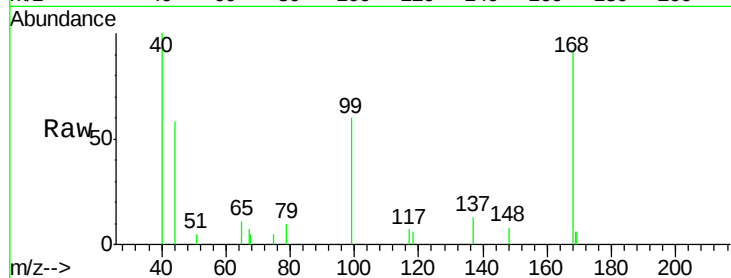
200051RE

Tot Ion:168 Resp: 5419

Ion Ratio Lower Upper

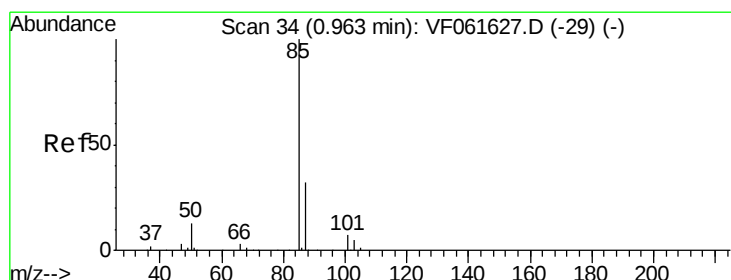
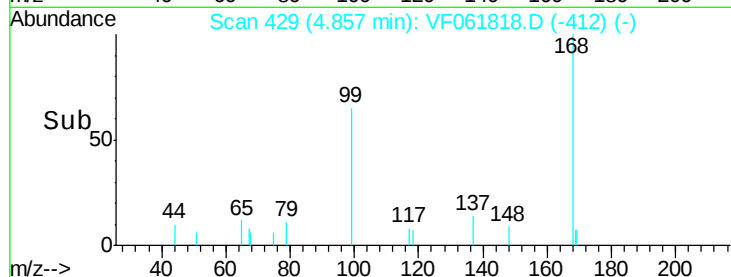
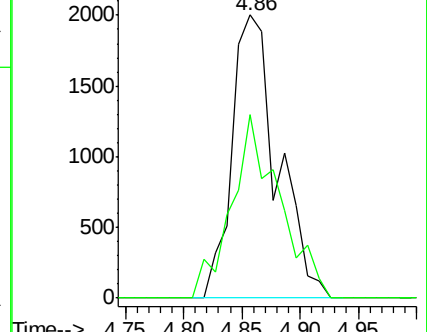
168 100

99 64.9 34.9 52.3#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 1.061 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.14 min

Lab File: VF061818.D

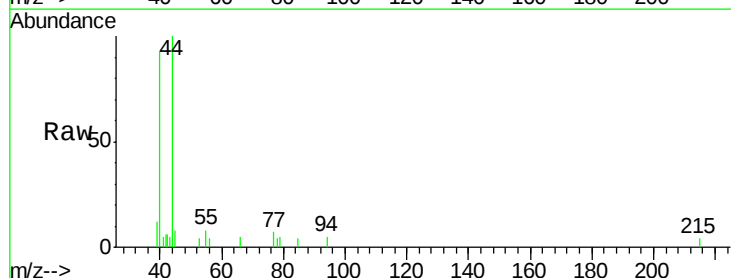
Acq: 1 Mar 2019 22:40

Tgt Ion: 85 Resp: 66

Ion Ratio Lower Upper

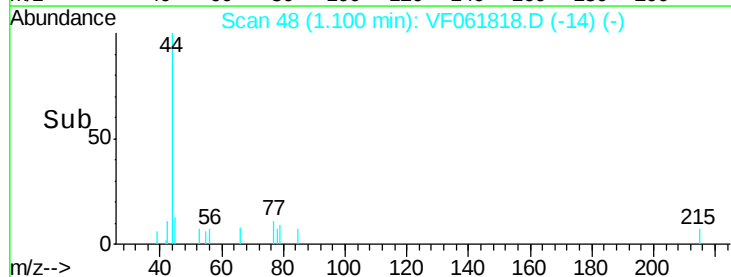
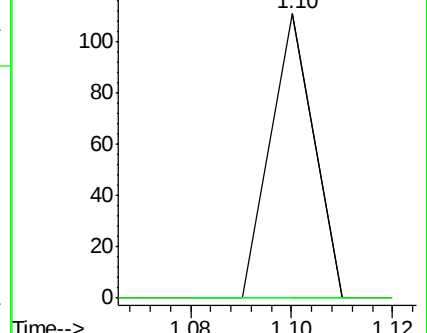
85 100

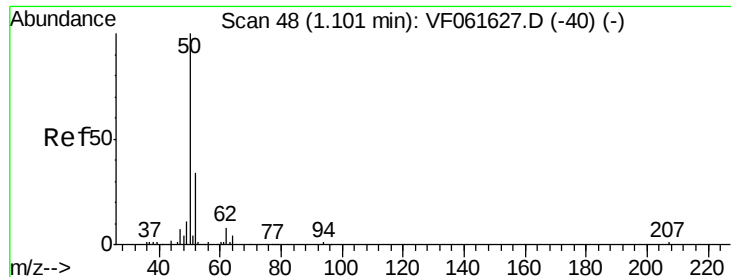
87 0.0 16.1 48.2#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 3.186 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

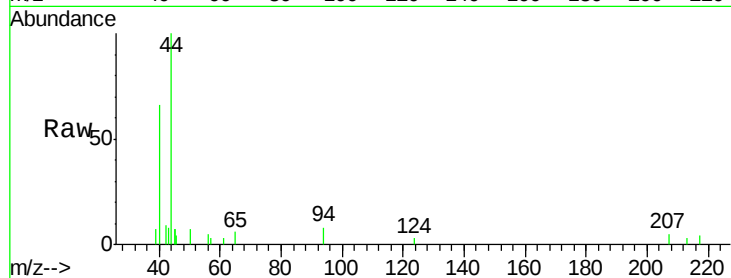
200051RE

Tot Ion: 50 Resp: 208

Ion Ratio Lower Upper

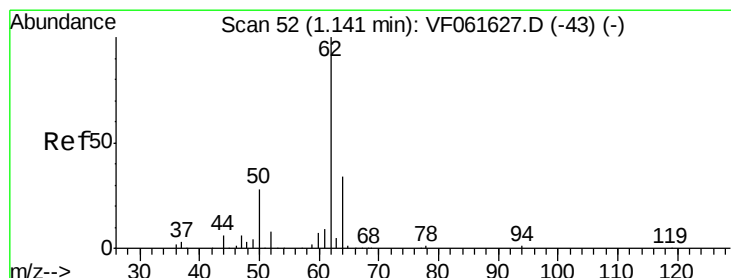
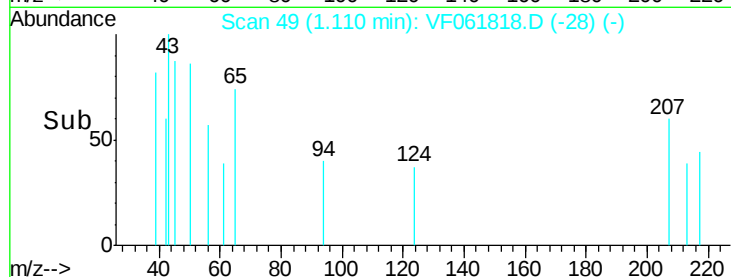
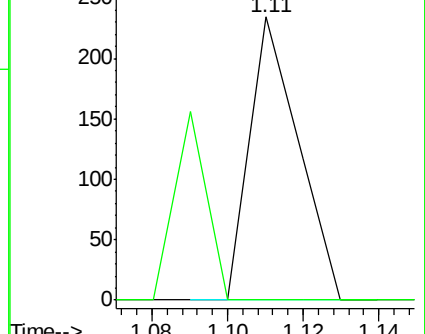
50 100

52 0.0 26.2 39.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 1.005 ug/l

RT: 1.17 min Scan# 55

Delta R.T. 0.03 min

Lab File: VF061818.D

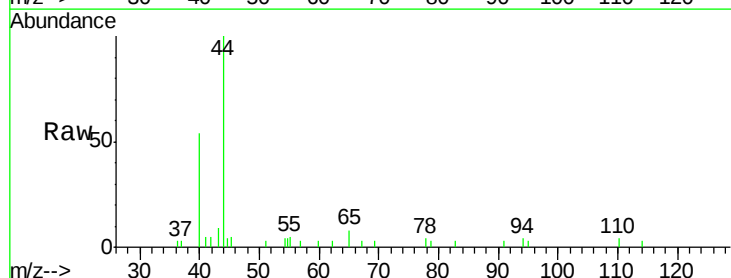
Acq: 1 Mar 2019 22:40

Tgt Ion: 62 Resp: 61

Ion Ratio Lower Upper

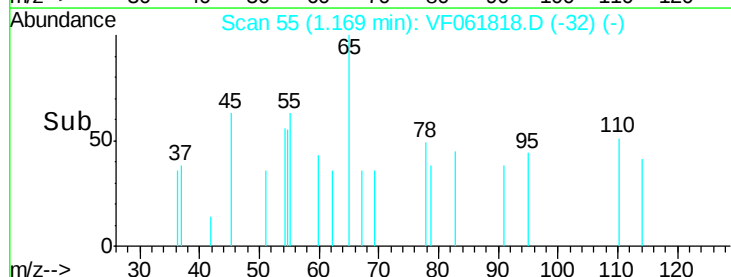
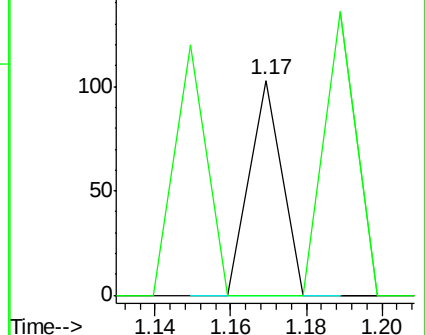
62 100

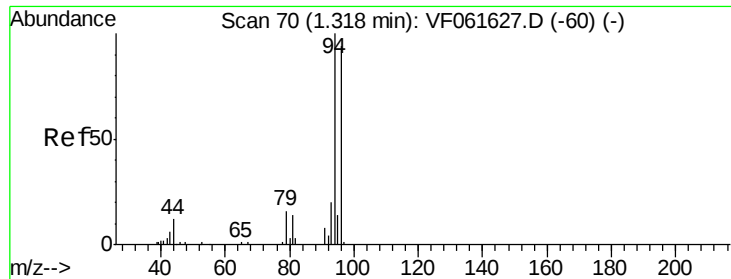
64 0.0 27.5 41.3#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 3.615 ug/l

RT: 1.29 min Scan# 67

Delta R.T. -0.03 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

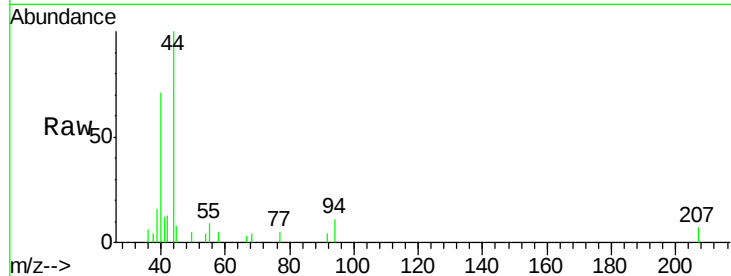
200051RE

Tot Ion: 94 Resp: 151

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

Time-->

1.26 1.28 1.30

400

300

200

100

0

1.29

1.26 1.28 1.30

400

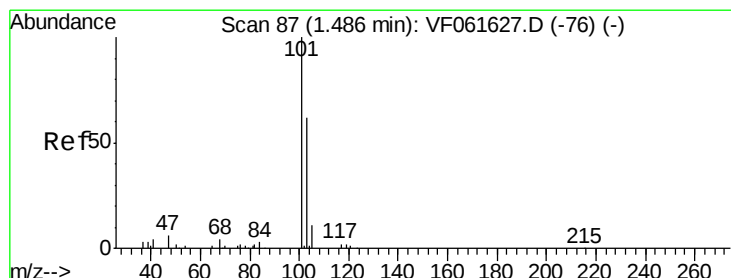
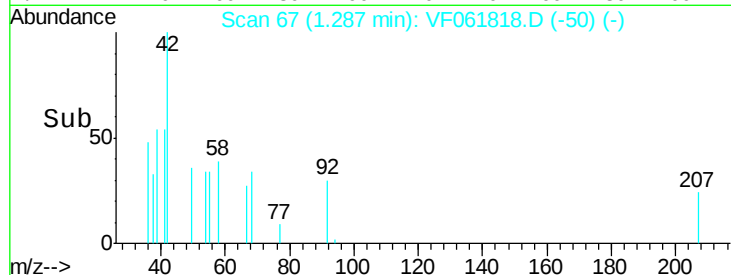
300

200

100

0

1.26 1.28 1.30



#7

Trichlorofluoromethane

Concen: 1.202 ug/l

RT: 1.55 min Scan# 94

Delta R.T. 0.07 min

Lab File: VF061818.D

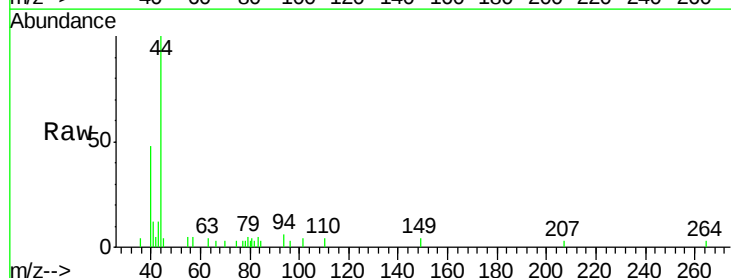
Acq: 1 Mar 2019 22:40

Tgt Ion:101 Resp: 88

Ion Ratio Lower Upper

101 100

103 0.0 49.3 73.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

Time-->

1.52 1.54 1.56 1.58

150

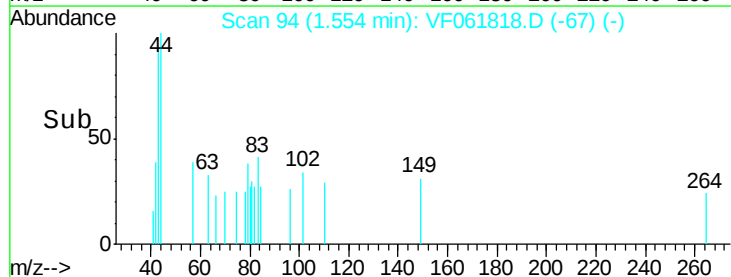
100

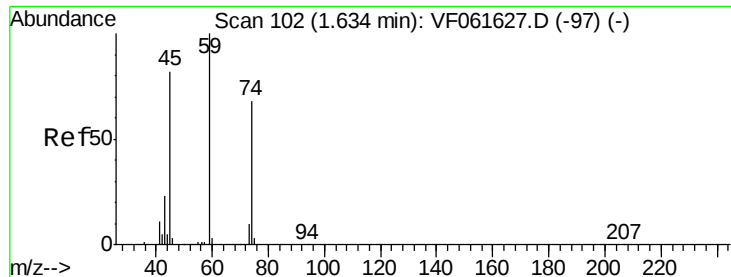
50

0

1.55

1.52 1.54 1.56 1.58





#8

Diethyl Ether

Concen: 6.504 ug/l

RT: 1.77 min Scan# 116

Delta R.T. 0.14 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

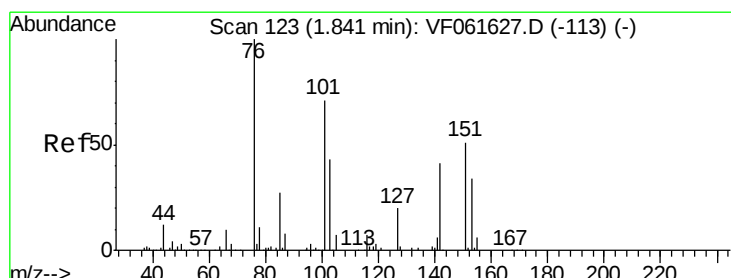
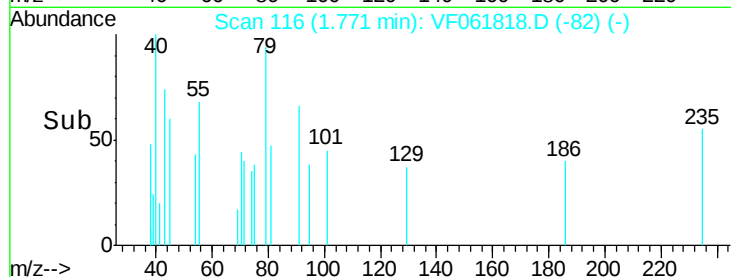
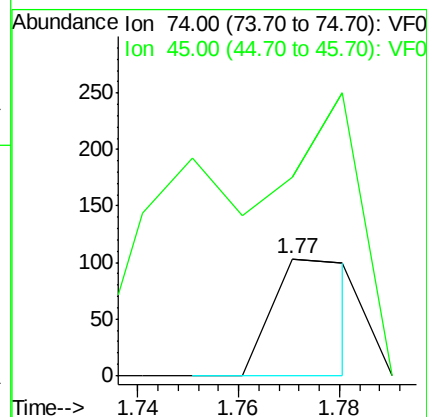
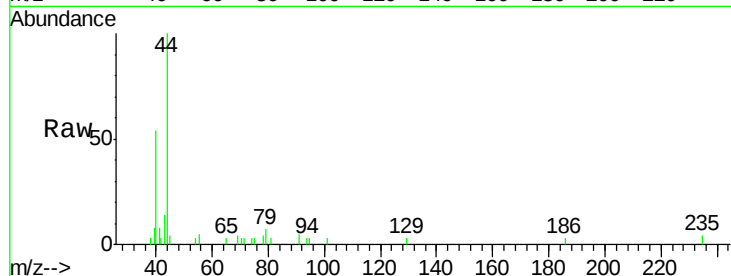
200051RE

Tot Ion: 74 Resp: 120

Ion Ratio Lower Upper

74 100

45 170.9 60.8 182.3



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.477 ug/l

RT: 1.77 min Scan# 116

Delta R.T. -0.07 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

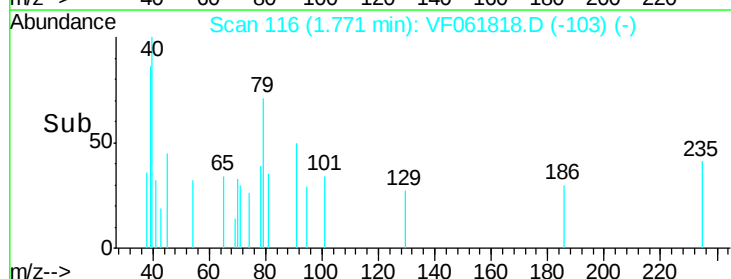
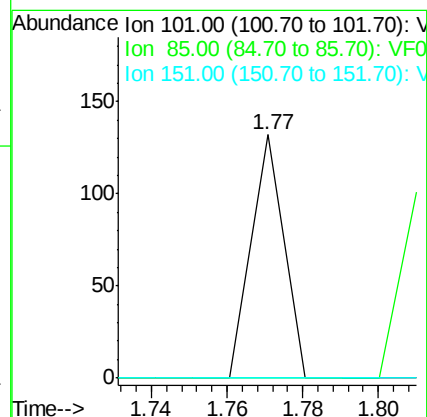
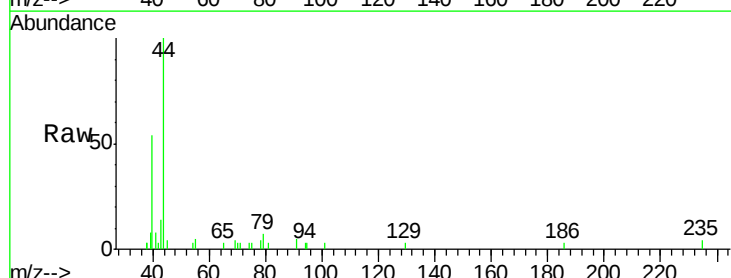
Tgt Ion:101 Resp: 78

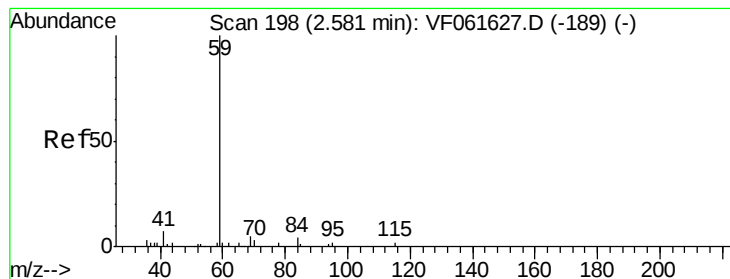
Ion Ratio Lower Upper

101 100

85 0.0 29.8 44.6#

151 0.0 56.3 84.5#



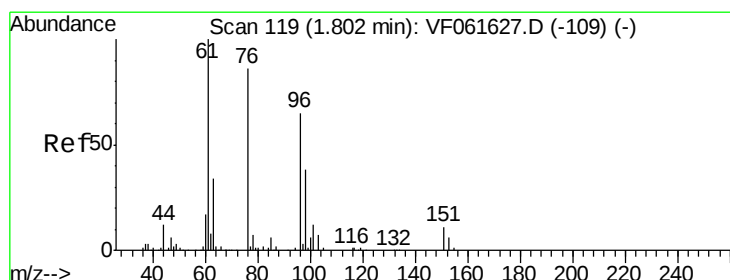
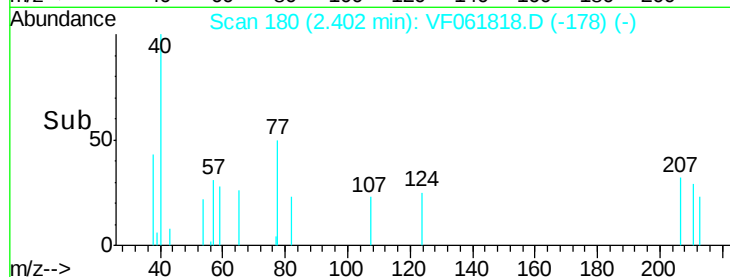
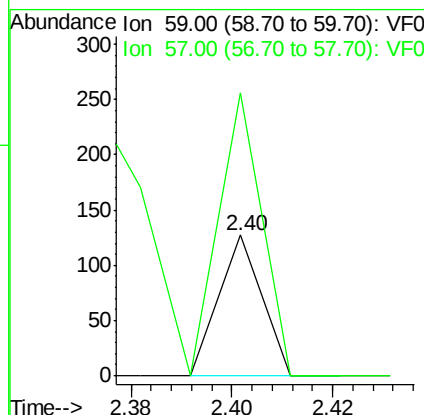
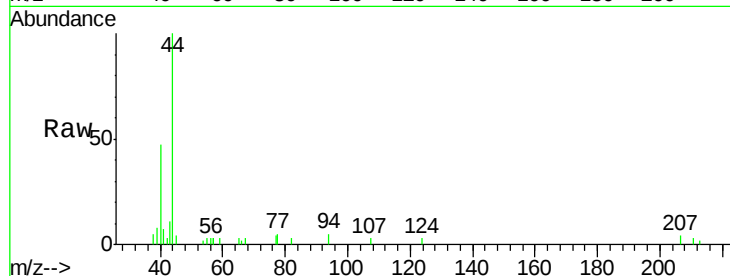


#11

Tert butyl alcohol  
Concen: 32.611 ug/l  
RT: 2.40 min Scan# 180  
Delta R.T. -0.18 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

Instrument :  
MSVOA\_F  
ClientSampleId :  
200051RE

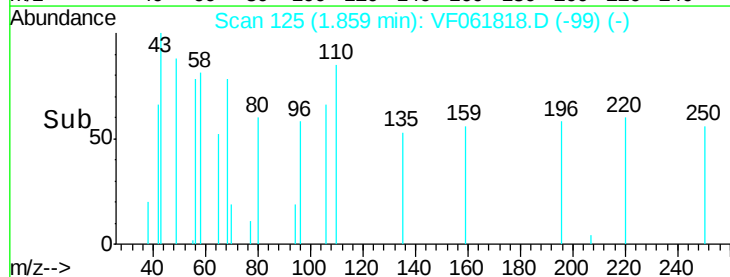
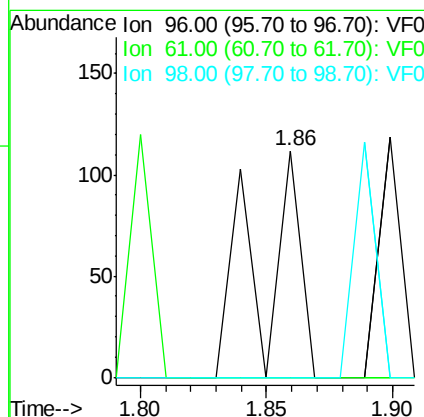
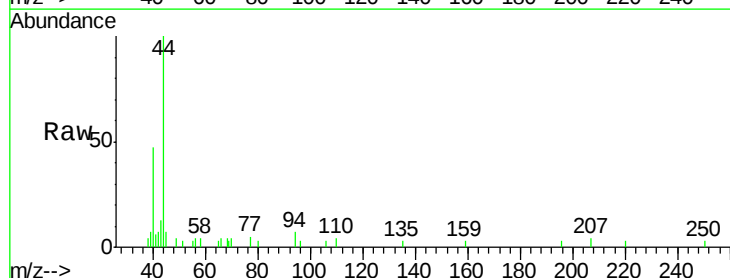
Tot Ion: 59 Resp: 75  
Ion Ratio Lower Upper  
59 100  
57 201.6 12.5 18.7#

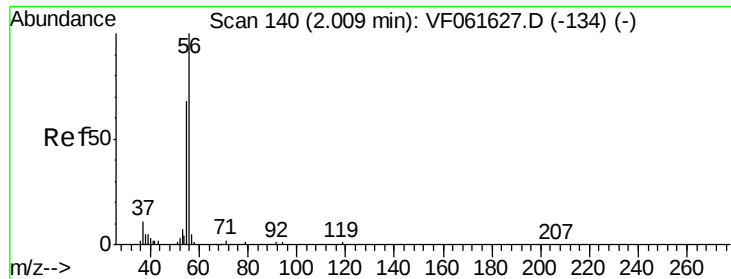


#12

1,1-Dichloroethene  
Concen: 2.735 ug/l  
RT: 1.86 min Scan# 125  
Delta R.T. 0.06 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

Tgt Ion: 96 Resp: 127  
Ion Ratio Lower Upper  
96 100  
61 0.0 122.6 184.0#  
98 0.0 47.2 70.8#





#13

Acrolein

Concen: 132.506 ug/l

RT: 1.94 min Scan# 133

Delta R.T. -0.07 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

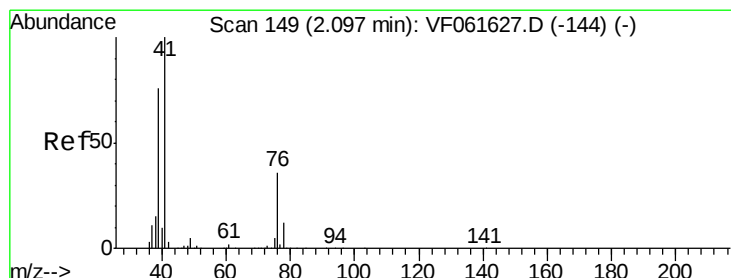
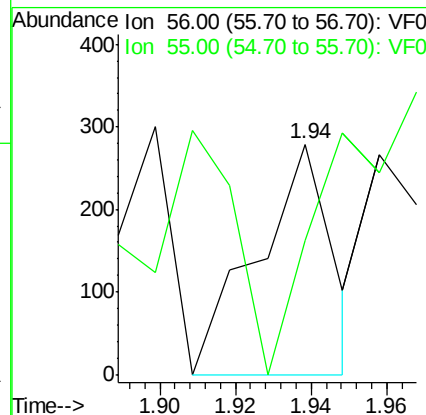
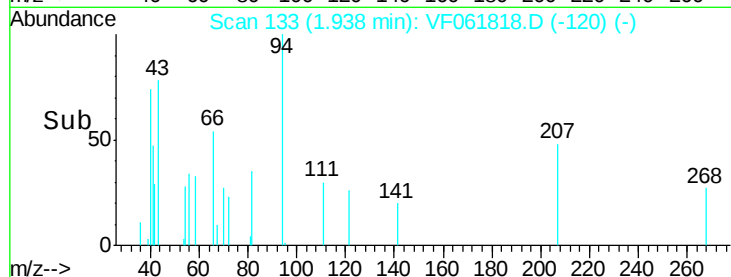
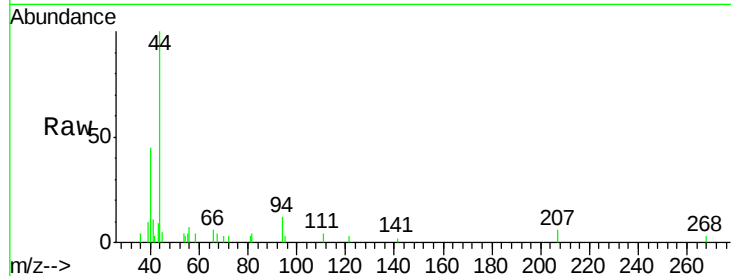
200051RE

Tot Ion: 56 Resp: 383

Ion Ratio Lower Upper

56 100

55 58.1 55.0 82.6



#14

Allyl chloride

Concen: 16.567 ug/l

RT: 2.12 min Scan# 151

Delta R.T. 0.02 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

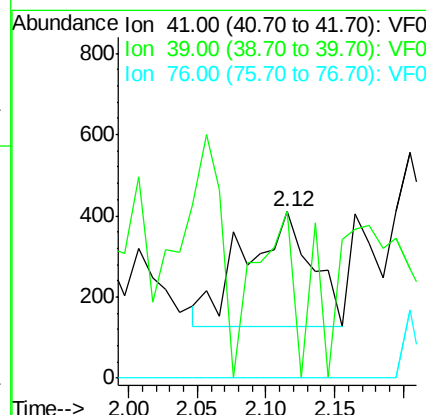
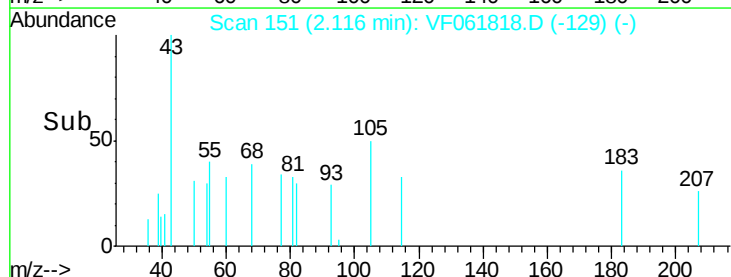
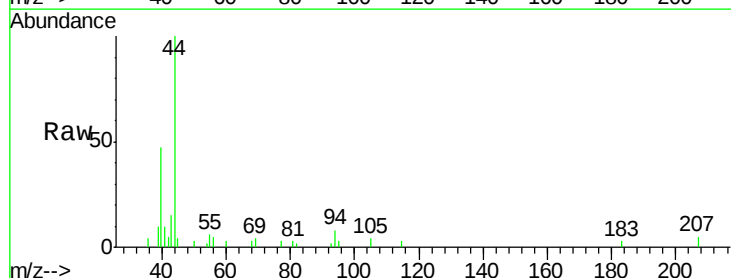
Tgt Ion: 41 Resp: 944

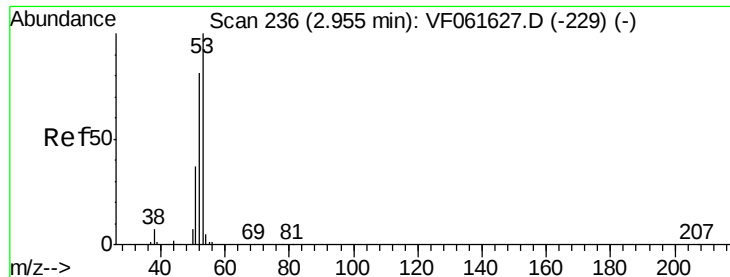
Ion Ratio Lower Upper

41 100

39 100.5 61.6 92.4#

76 0.0 30.3 45.5#





#15

Acrylonitrile

Concen: 36.531 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

200051RE

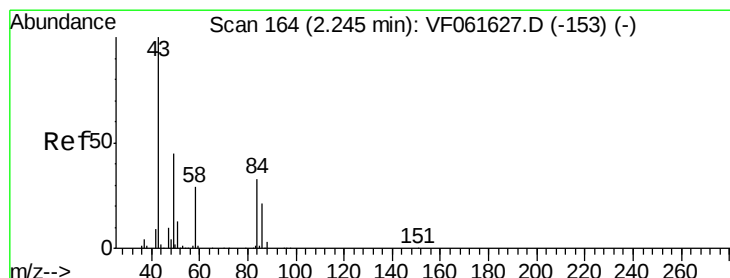
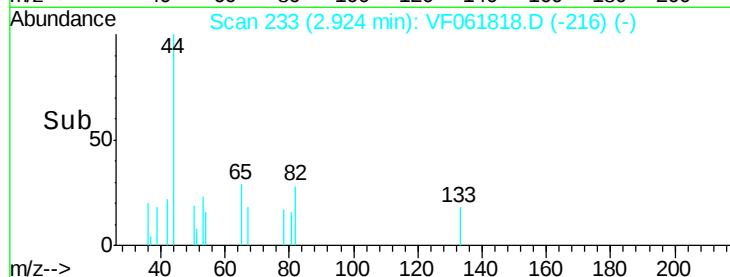
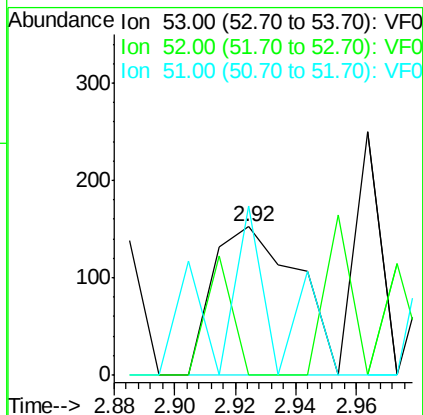
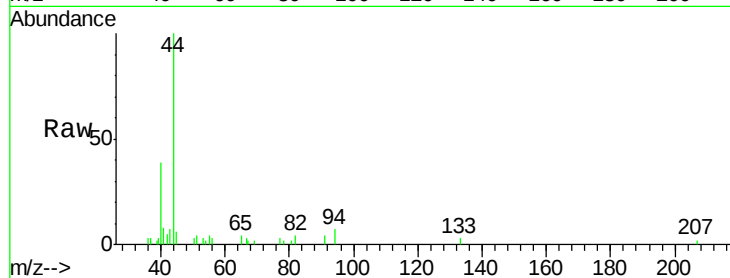
Tot Ion: 53 Resp: 298

Ion Ratio Lower Upper

53 100

52 0.0 64.6 97.0#

51 114.5 29.8 44.8#



#16

Acetone

Concen: 83.039 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.00 min

Lab File: VF061818.D

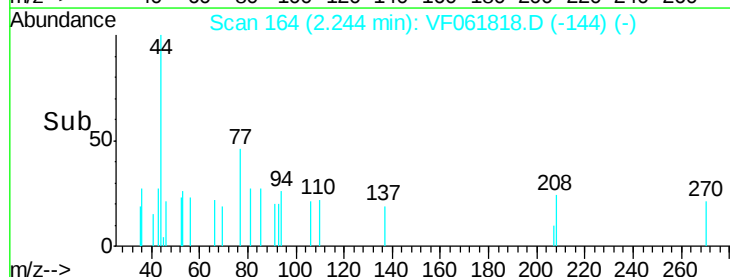
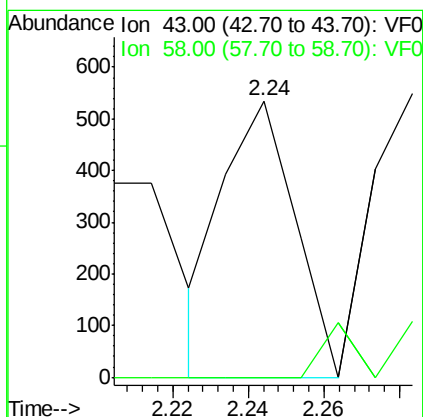
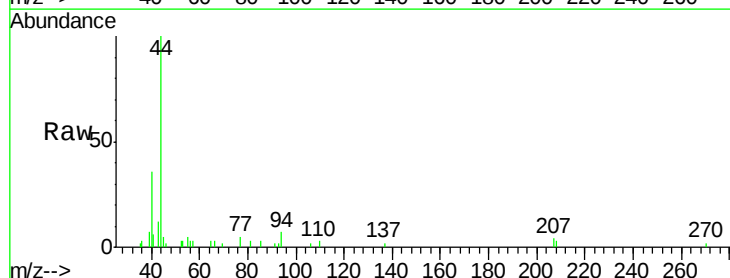
Acq: 1 Mar 2019 22:40

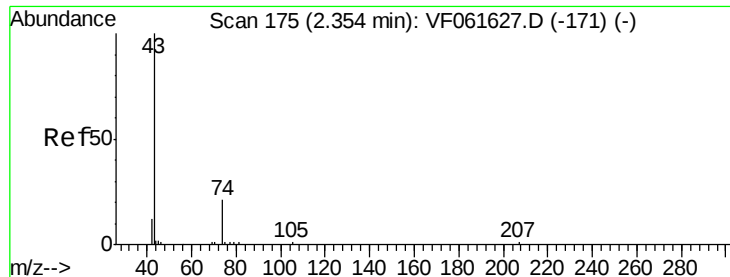
Tgt Ion: 43 Resp: 708

Ion Ratio Lower Upper

43 100

58 0.0 22.9 34.3#





#18

Methyl Acetate

Concen: 53.782 ug/l

RT: 2.28 min Scan# 168

Delta R.T. -0.07 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

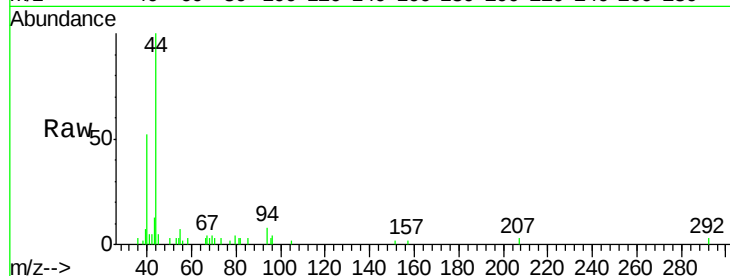
200051RE

Tot Ion: 43 Resp: 1033

Ion Ratio Lower Upper

43 100

74 0.0 14.6 21.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

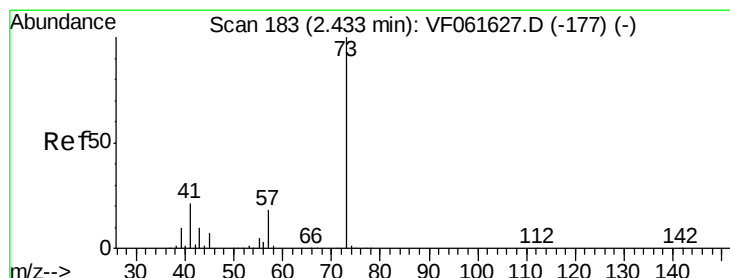
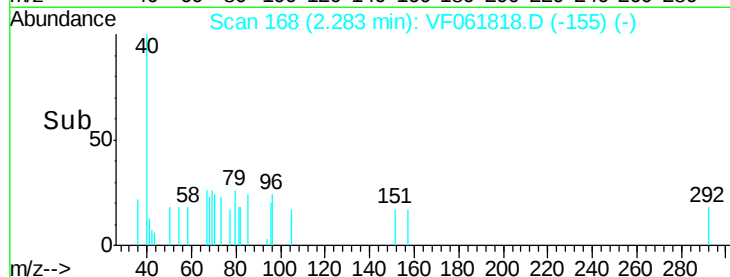
2.28

2.26

2.28

2.30

Time-->



#19

Methyl tert-butyl Ether

Concen: 2.004 ug/l

RT: 2.44 min Scan# 184

Delta R.T. 0.01 min

Lab File: VF061818.D

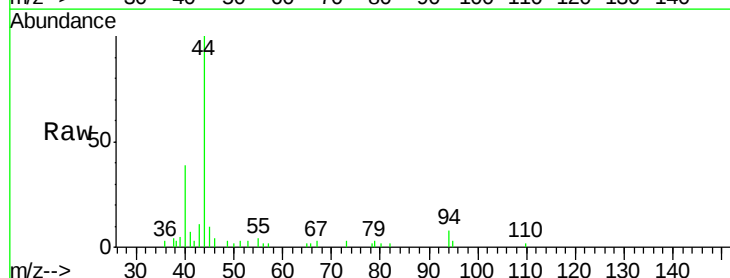
Acq: 1 Mar 2019 22:40

Tgt Ion: 73 Resp: 159

Ion Ratio Lower Upper

73 100

57 75.8 15.8 23.8#



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.44

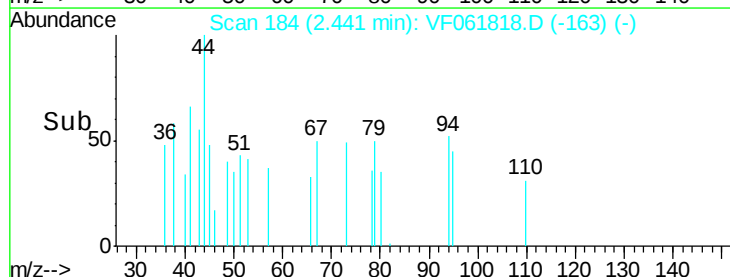
2.42

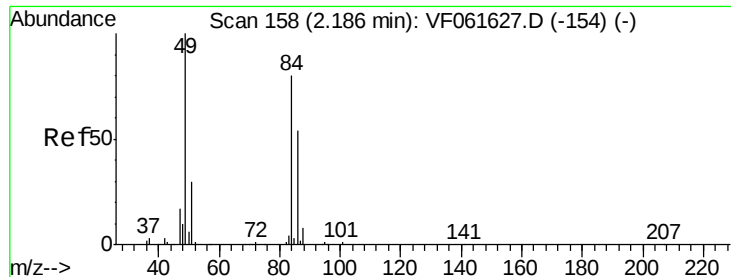
2.44

2.46

2.48

Time-->

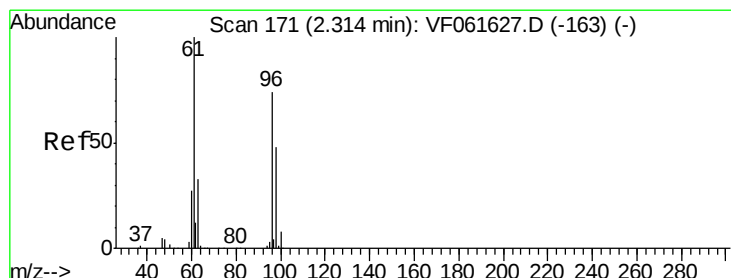
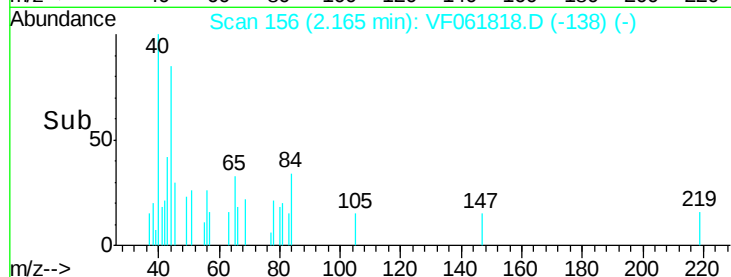
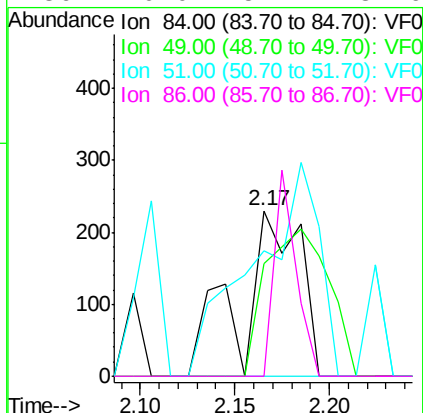
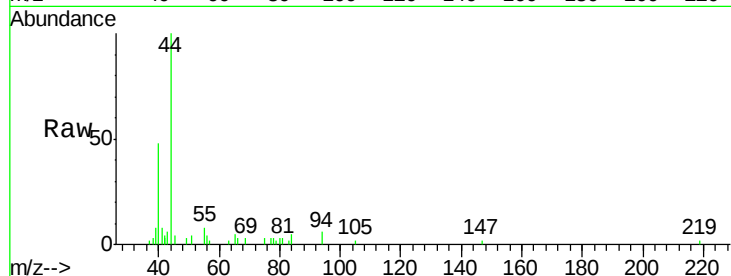




#20  
Methvlene Chloride  
Concen: 9.055 ug/l  
RT: 2.17 min Scan# 156  
Delta R.T. -0.02 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

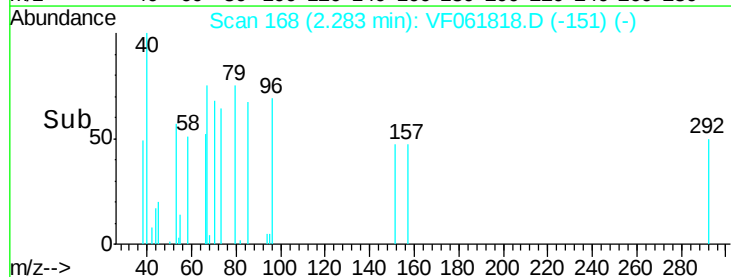
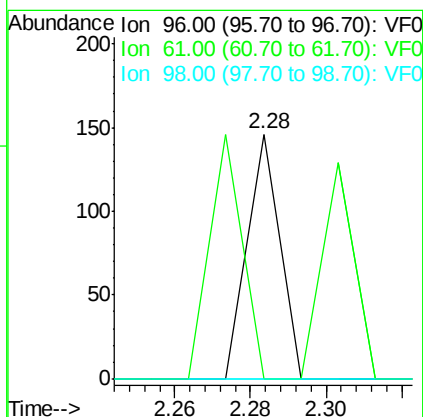
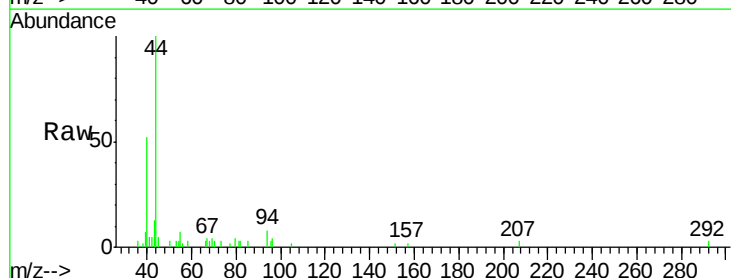
Instrument :  
MSVOA\_F  
ClientSampleId :  
200051RE

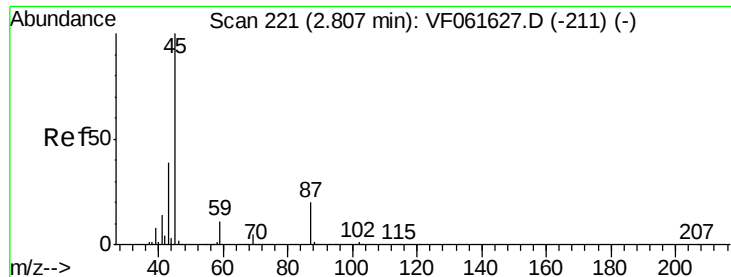
Tot Ion: 84 Resp: 508  
Ion Ratio Lower Upper  
84 100  
49 67.8 101.8 152.8#  
51 75.7 31.1 46.7#  
86 0.0 54.4 81.6#



#21  
trans-1,2-Dichloroethene  
Concen: 1.704 ug/l  
RT: 2.28 min Scan# 168  
Delta R.T. -0.03 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

Tgt Ion: 96 Resp: 86  
Ion Ratio Lower Upper  
96 100  
61 0.0 108.2 162.4#  
98 0.0 52.2 78.2#





#22

Diisopropyl ether

Concen: 7.318 ug/l

RT: 2.77 min Scan# 217

Delta R.T. -0.04 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

200051RE

Tot Ion: 45 Resp: 1001

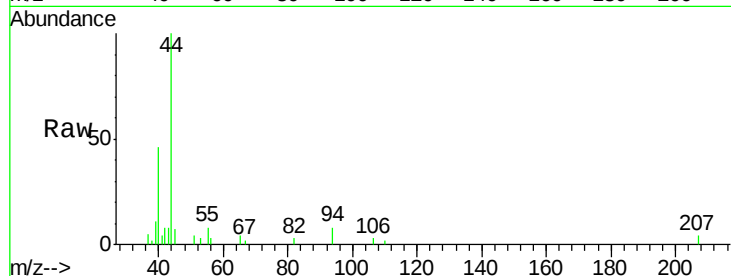
Ion Ratio Lower Upper

45 100

43 118.2 31.4 47.2#

87 0.0 16.3 24.5#

59 0.0 8.7 13.1#

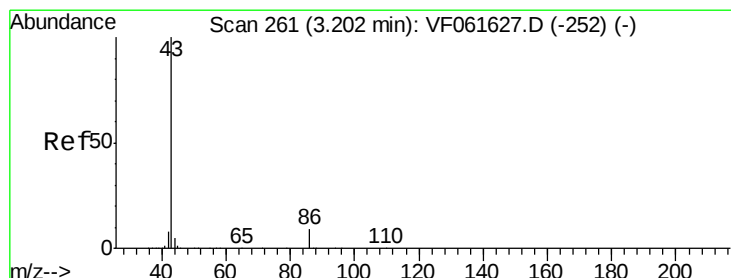
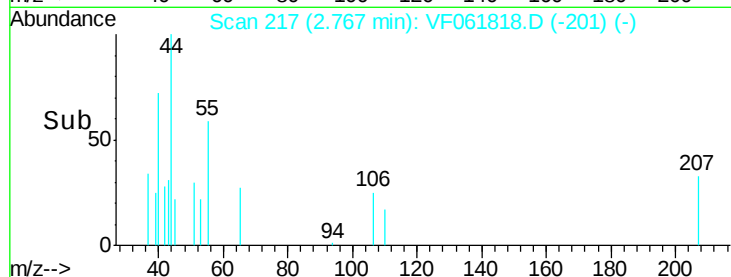
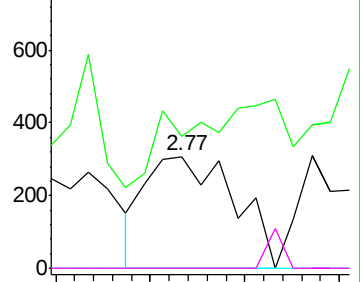


Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0



#23

Vinyl Acetate

Concen: 3.847 ug/l

RT: 3.16 min Scan# 257

Delta R.T. -0.04 min

Lab File: VF061818.D

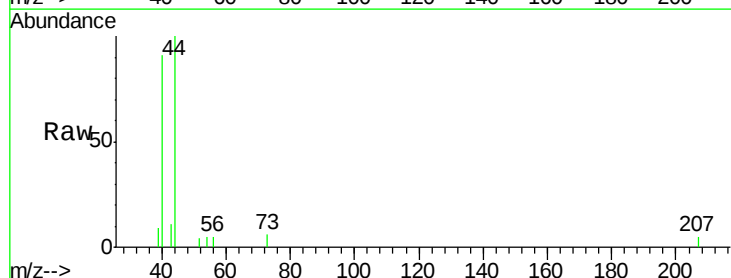
Acq: 1 Mar 2019 22:40

Tgt Ion: 43 Resp: 257

Ion Ratio Lower Upper

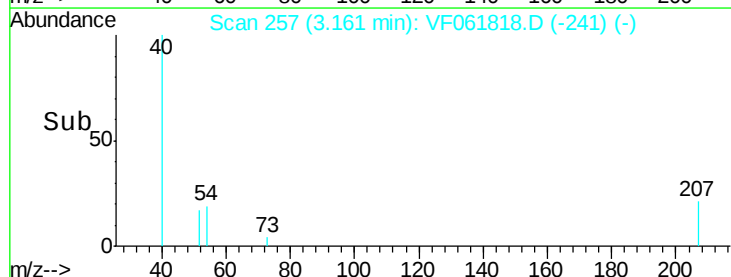
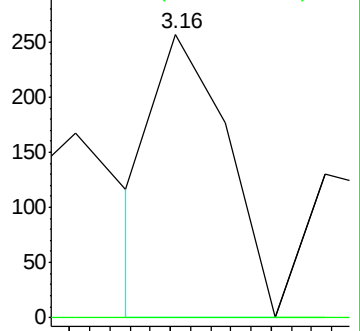
43 100

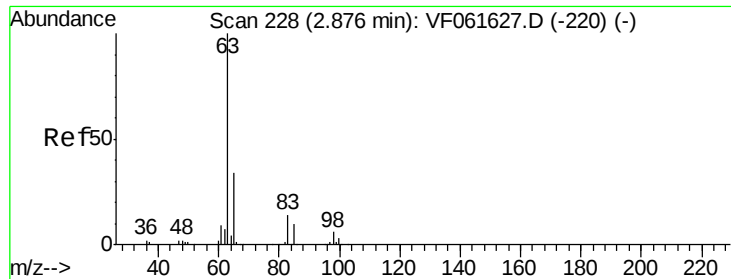
86 0.0 7.5 11.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#24

1,1-Dichloroethane

Concen: 1.921 ug/l

RT: 2.90 min Scan# 231

Delta R.T. 0.03 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

200051RE

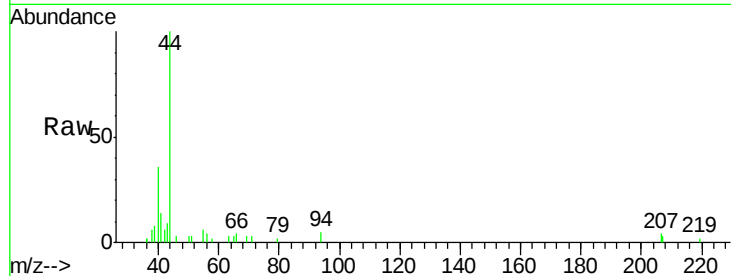
Tot Ion: 63 Resp: 159

Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.3#

100 0.0 1.8 5.4#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.90

2.85 2.90 2.95 3.00

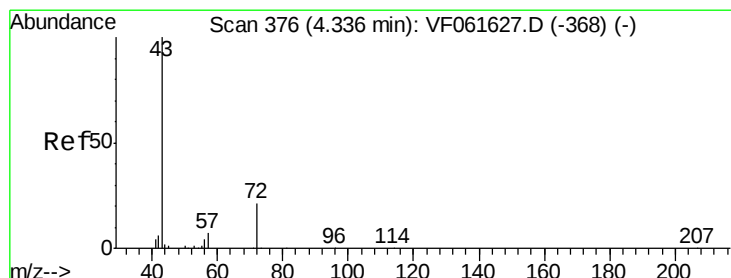
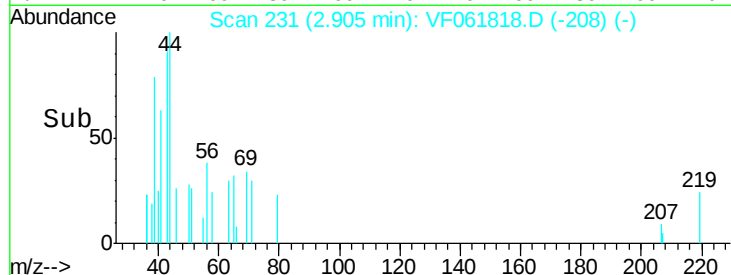
150

100

50

0

Time-->



#25

2-Butanone

Concen: 33.130 ug/l

RT: 4.32 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF061818.D

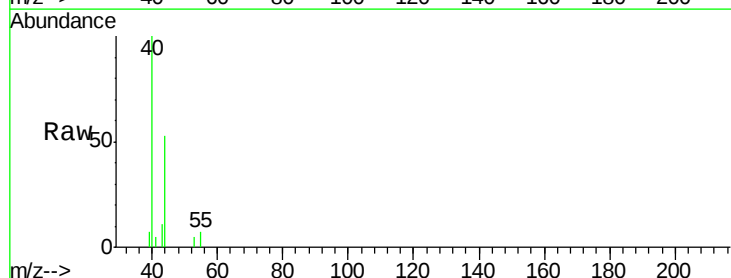
Acq: 1 Mar 2019 22:40

Tgt Ion: 43 Resp: 617

Ion Ratio Lower Upper

43 100

72 0.0 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

300

250

200

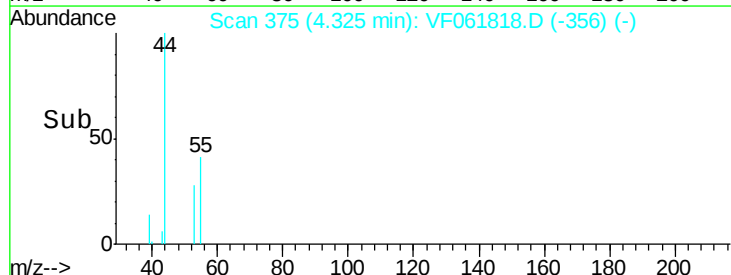
150

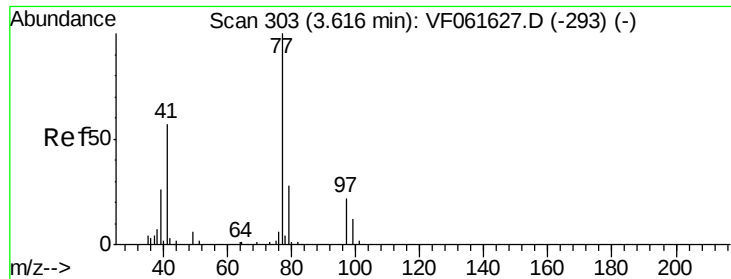
100

50

0

Time-->





#26

2,2-Dichloropropane

Concen: 1.911 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.03 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

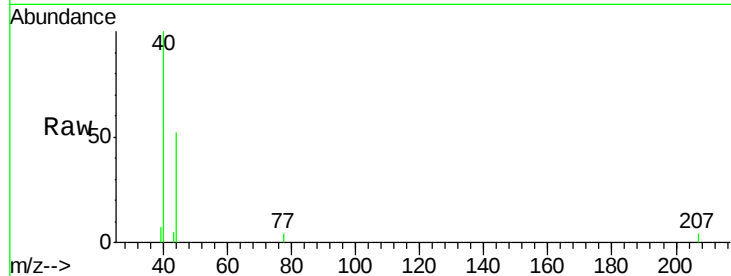
200051RE

Tot Ion: 77 Resp: 67

Ion Ratio Lower Upper

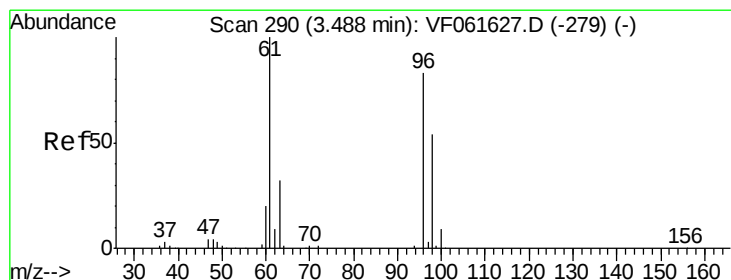
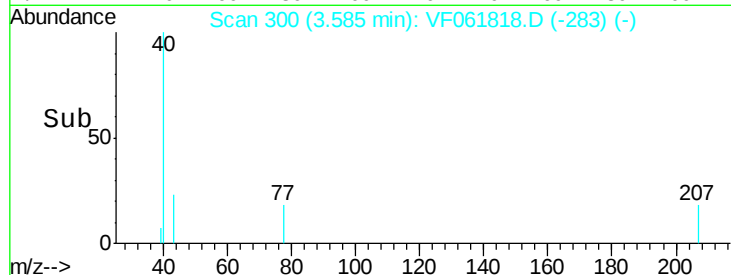
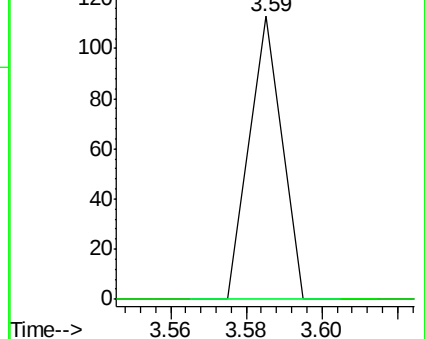
77 100

97 0.0 11.7 35.0#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 1.404 ug/l

RT: 3.45 min Scan# 286

Delta R.T. -0.04 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

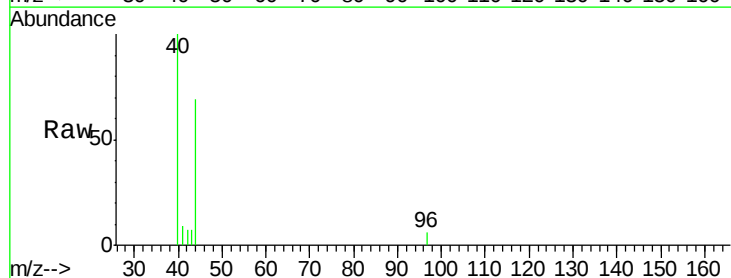
Tgt Ion: 96 Resp: 93

Ion Ratio Lower Upper

96 100

61 0.0 0.0 241.6

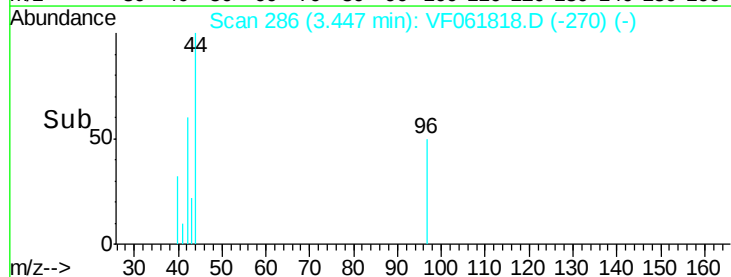
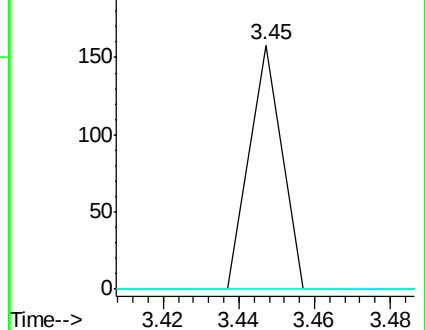
98 0.0 0.0 130.2

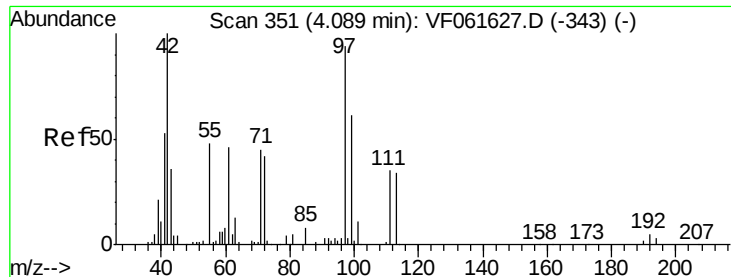


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#29

Tetrahydrofuran

Concen: 15.122 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

200051RE

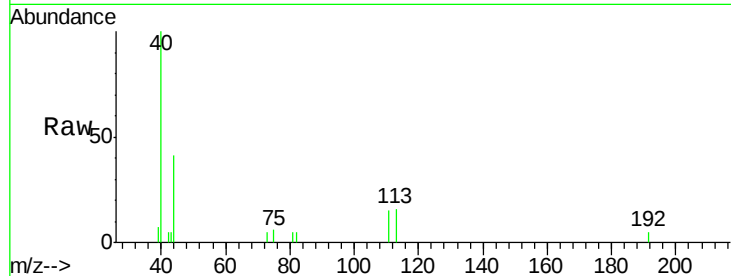
Tot Ion: 42 Resp: 128

Ion Ratio Lower Upper

42 100

72 0.0 35.2 52.8#

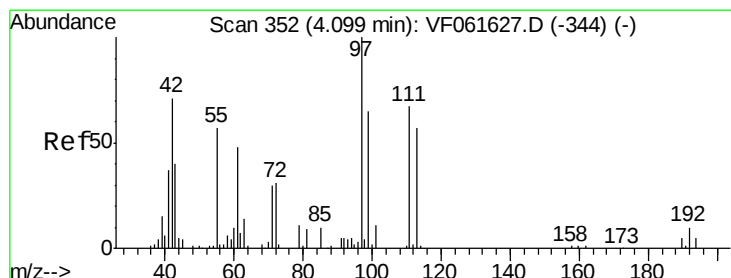
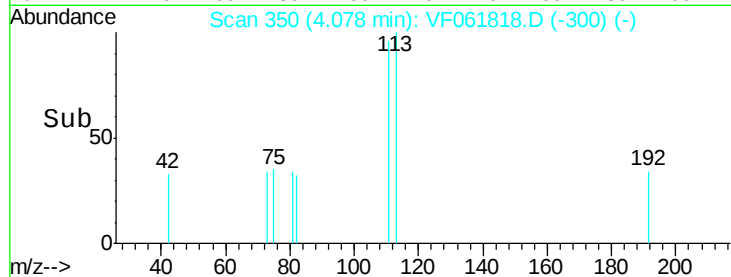
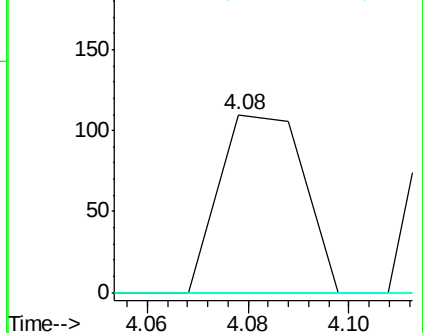
71 0.0 32.9 49.3#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#32

1,1,1-Trichloroethane

Concen: 1.087 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

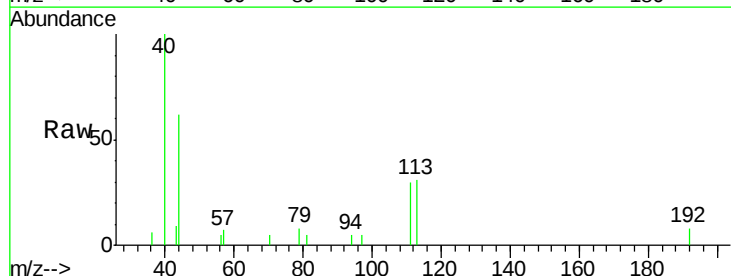
Tgt Ion: 97 Resp: 67

Ion Ratio Lower Upper

97 100

99 0.0 52.2 78.2#

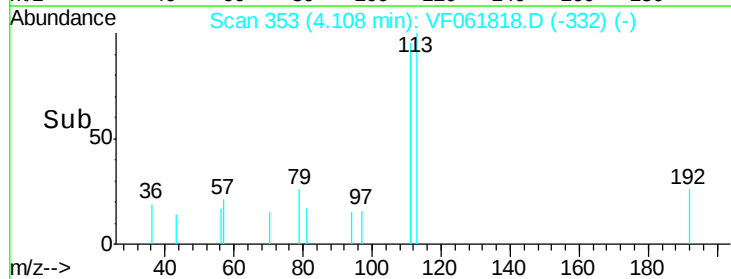
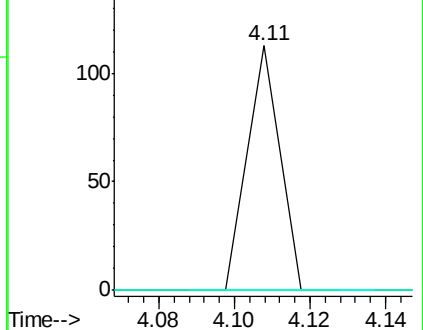
61 0.0 39.2 58.8#

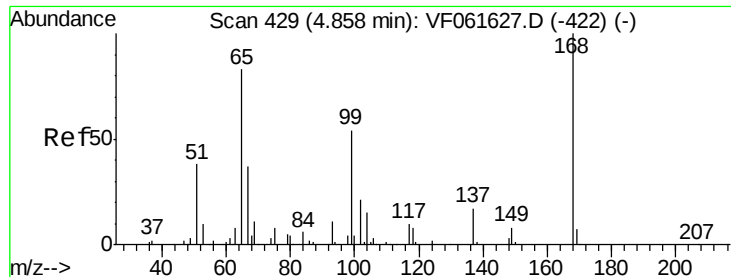


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 31.884 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.02 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

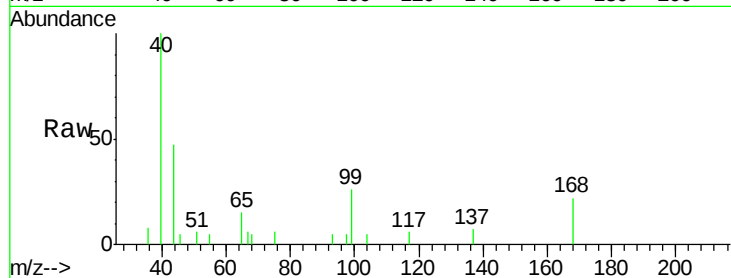
200051RE

Tot Ion: 65 Resp: 1267

Ion Ratio Lower Upper

65 100

67 42.4 0.0 104.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.84

300

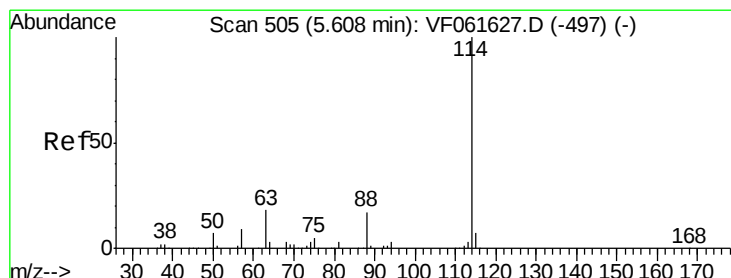
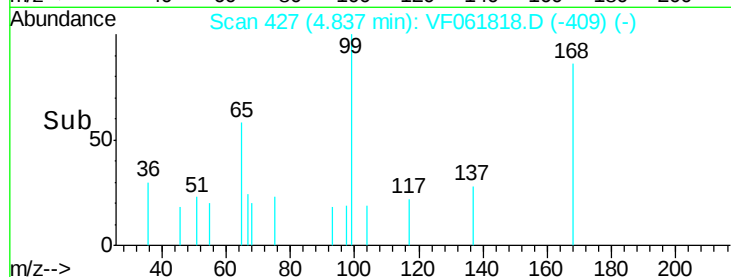
200

100

0

4.75 4.80 4.85 4.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

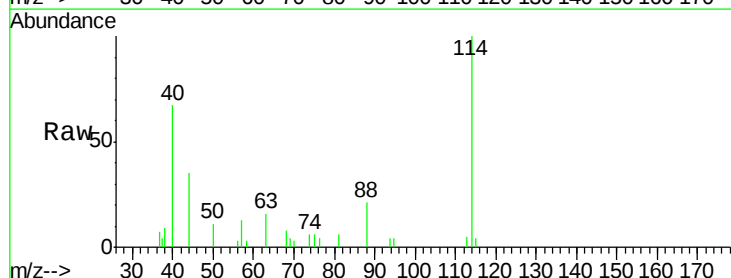
Tgt Ion: 114 Resp: 8419

Ion Ratio Lower Upper

114 100

63 15.5 0.0 36.6

88 20.8 0.0 34.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

5.59

4000

3000

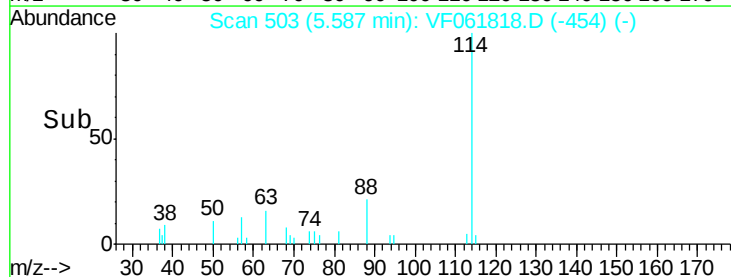
2000

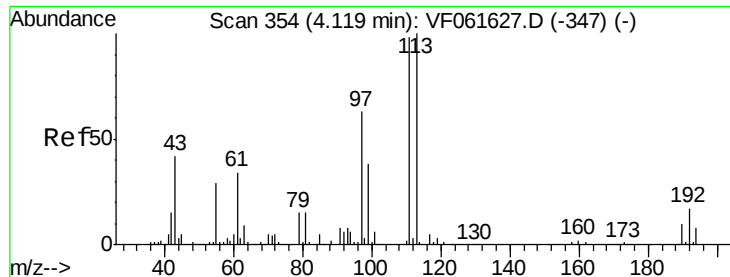
1000

0

5.50 5.60 5.70

Time-->





#35

Dibromofluoromethane

Concen: 33.061 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

200051RE

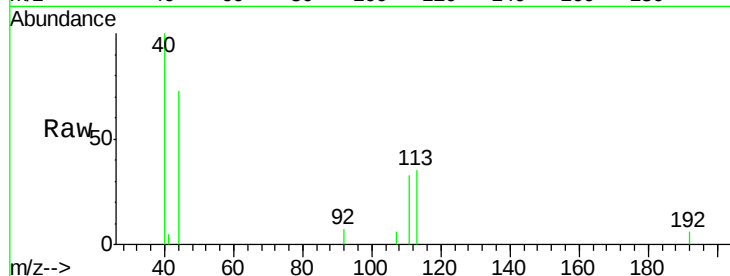
Tot Ion:113 Resp: 2067

Ion Ratio Lower Upper

113 100

111 94.8 78.8 118.2

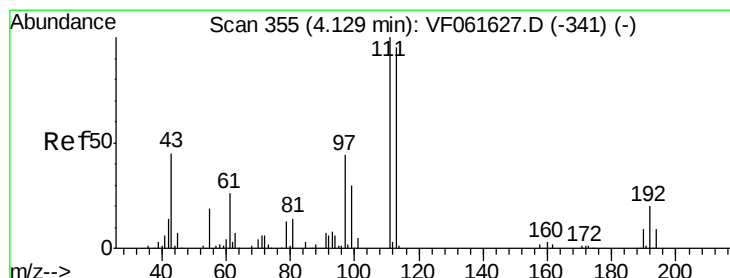
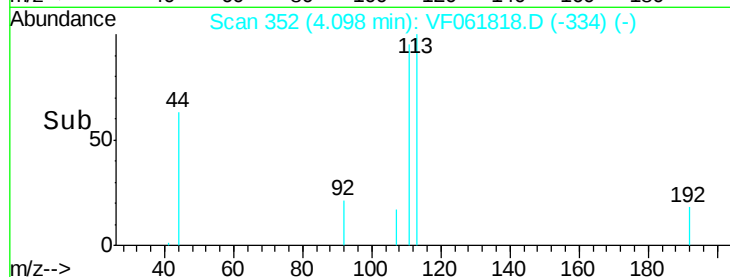
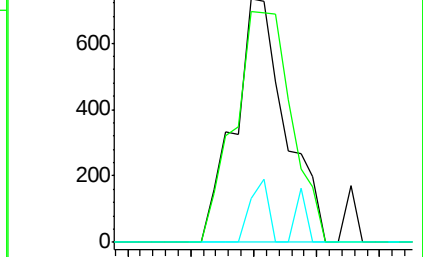
192 18.3 13.4 20.0



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#37

Ethyl Acetate

Concen: 6.454 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.01 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

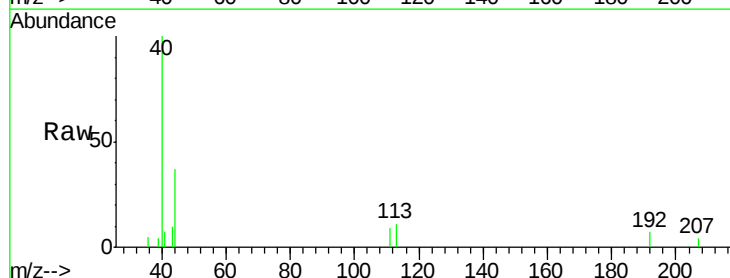
Tgt Ion: 43 Resp: 250

Ion Ratio Lower Upper

43 100

61 0.0 45.7 68.5#

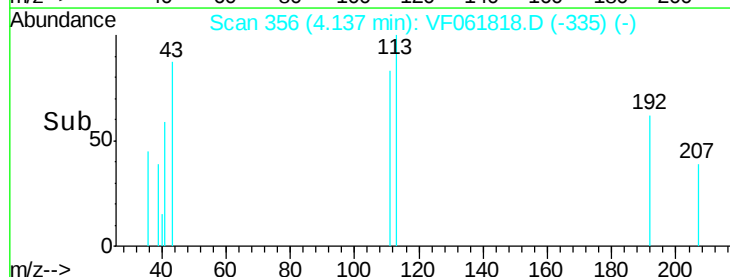
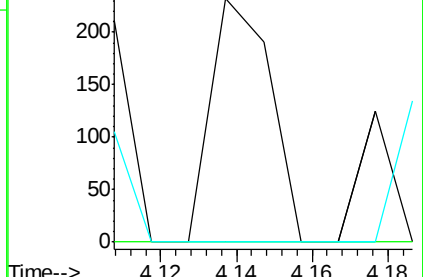
70 0.0 8.5 12.7#

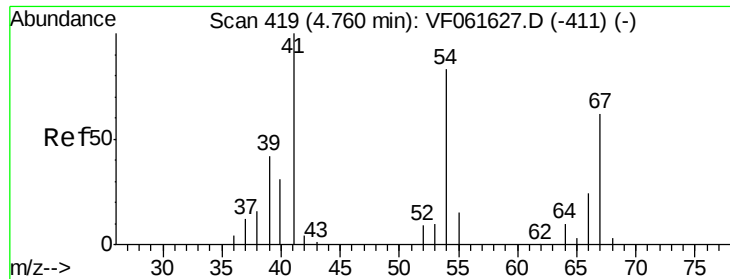


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#41

Methacrylonitrile

Concen: 16.103 ug/l

RT: 4.72 min Scan# 415

Delta R.T. -0.04 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

200051RE

Tot Ion: 41 Resp: 319

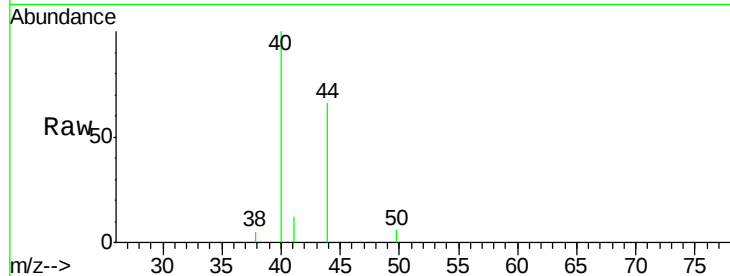
Ion Ratio Lower Upper

41 100

39 0.0 45.3 67.9#

67 0.0 49.3 73.9#

52 0.0 32.6 49.0#

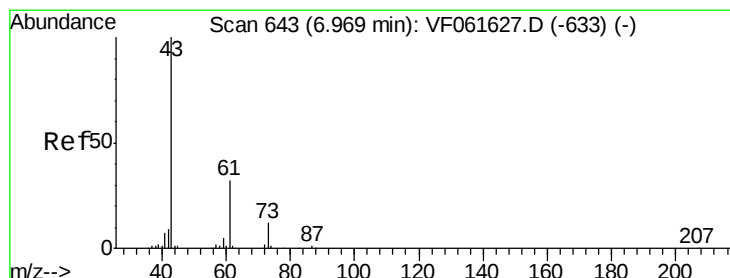
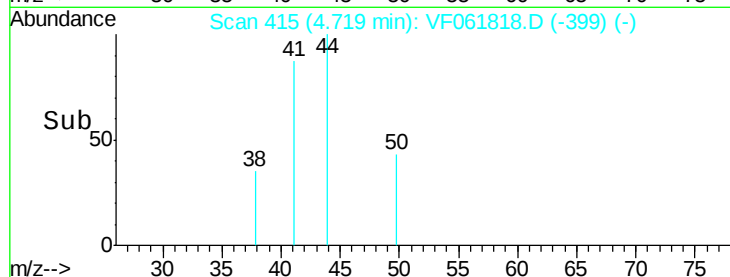
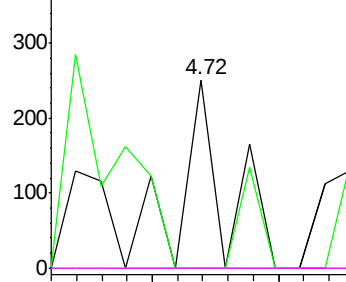


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 2.181 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.03 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

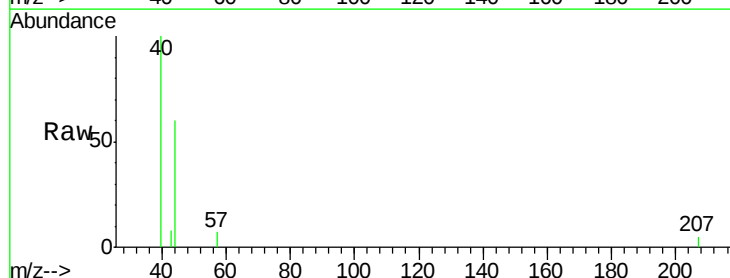
Tgt Ion: 43 Resp: 100

Ion Ratio Lower Upper

43 100

61 0.0 25.8 38.6#

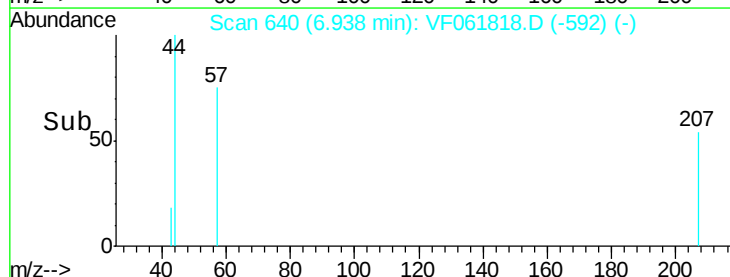
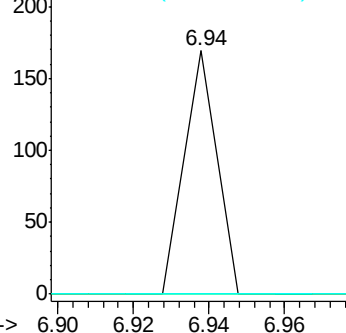
87 0.0 0.4 0.6#

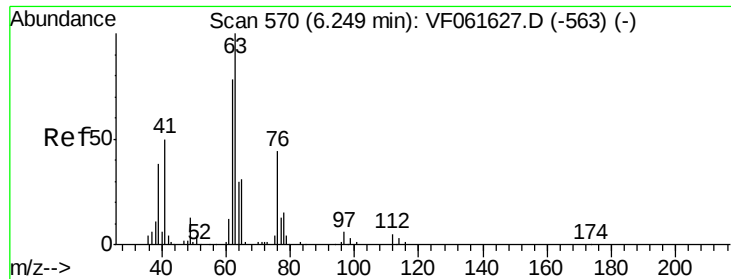


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#45

1,2-Dichloropropane

Concen: 1.157 ug/l

RT: 6.10 min Scan# 555

Delta R.T. -0.15 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

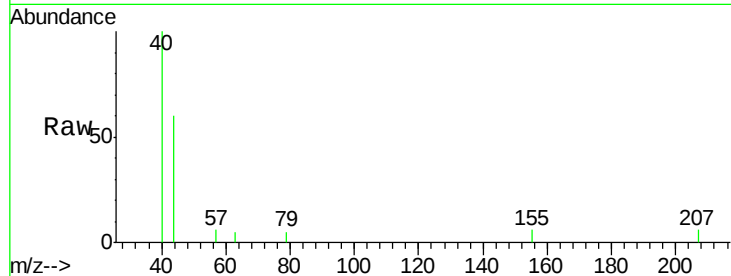
200051RE

Tot Ion: 63 Resp: 61

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.10

100

80

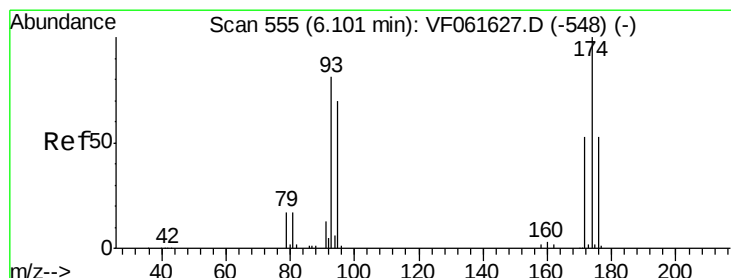
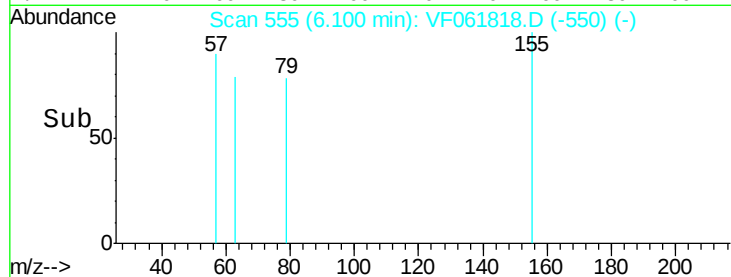
60

40

20

0

Time-->



#46

Dibromomethane

Concen: 2.464 ug/l

RT: 6.11 min Scan# 556

Delta R.T. 0.01 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

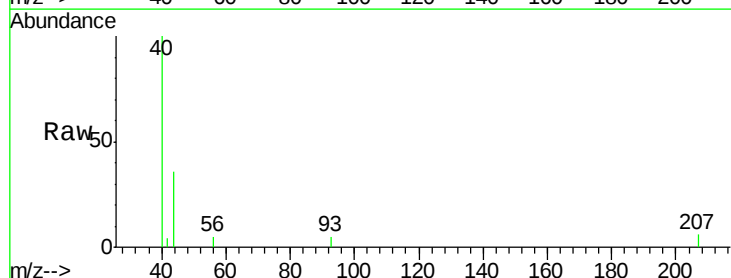
Tgt Ion: 93 Resp: 80

Ion Ratio Lower Upper

93 100

95 0.0 69.0 103.6#

174 0.0 99.3 148.9#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

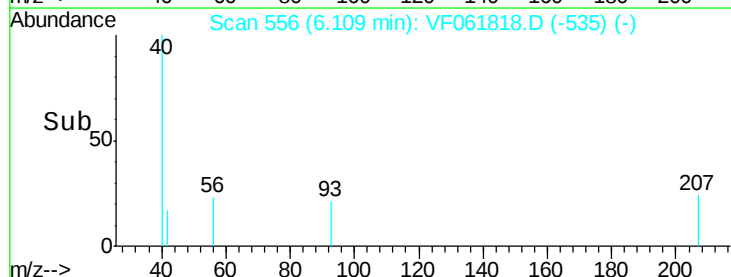
150

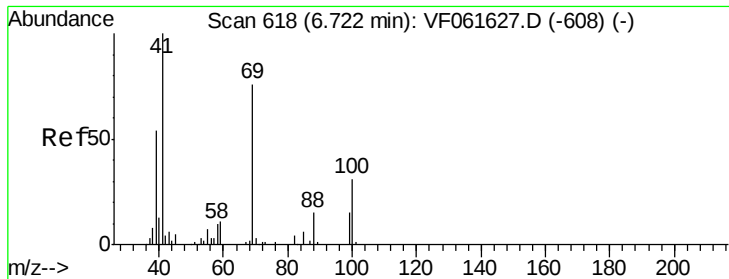
100

50

0

Time-->

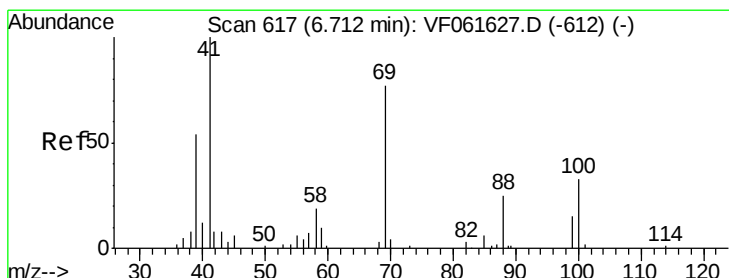
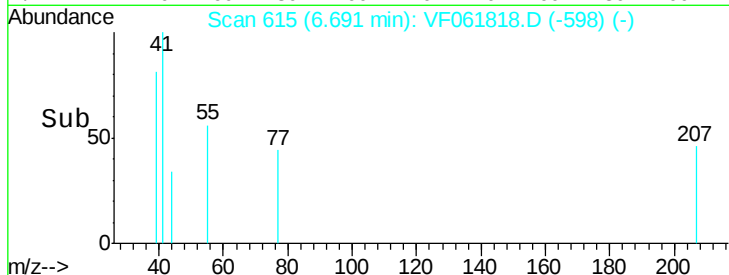
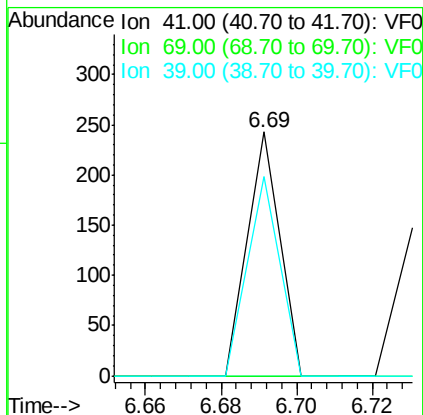
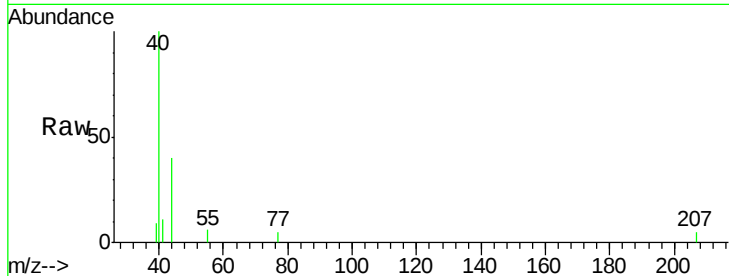




#48  
Methyl methacrylate  
Concen: 5.219 ug/l  
RT: 6.69 min Scan# 615  
Delta R.T. -0.03 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

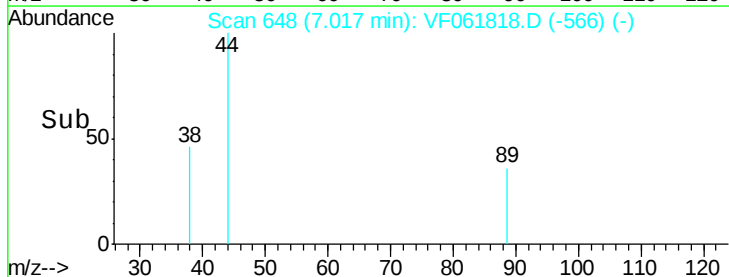
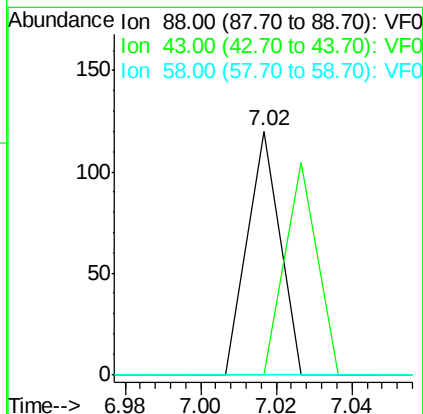
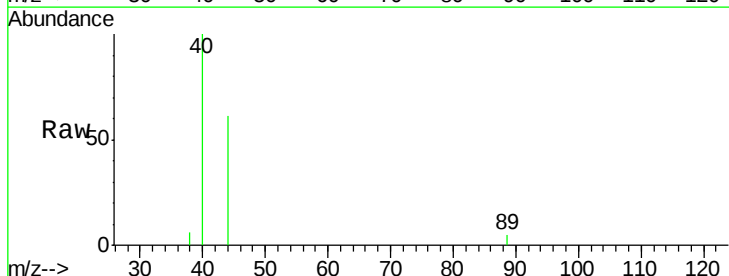
Instrument :  
MSVOA\_F  
ClientSampled :  
200051RE

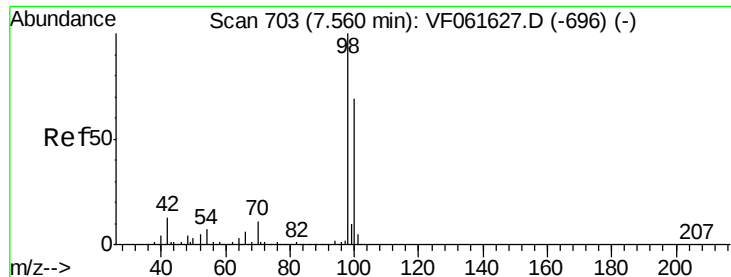
Tot Ion: 41 Resp: 144  
Ion Ratio Lower Upper  
41 100  
69 0.0 60.4 90.6#  
39 81.5 43.7 65.5#



#49  
1,4-Dioxane  
Concen: 273.712 ug/l  
RT: 7.02 min Scan# 648  
Delta R.T. 0.30 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

Tgt Ion: 88 Resp: 71  
Ion Ratio Lower Upper  
88 100  
43 0.0 32.3 48.5#  
58 0.0 59.4 89.2#

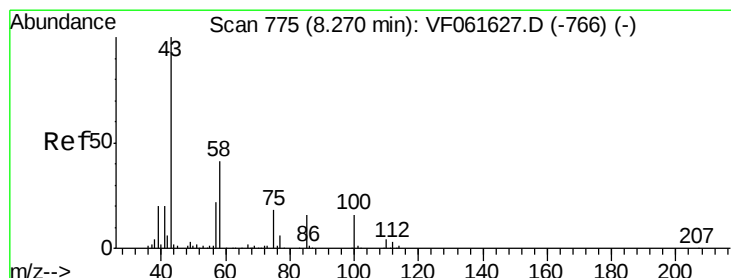
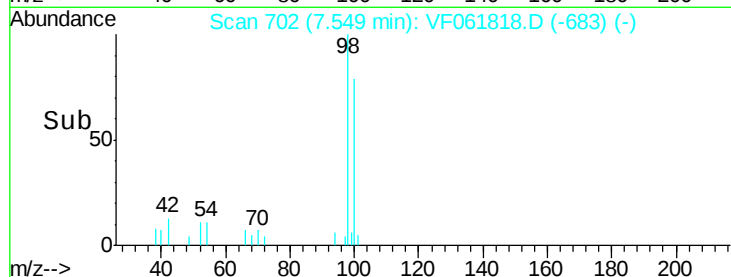
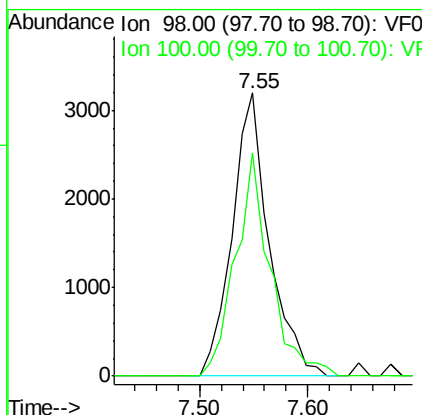
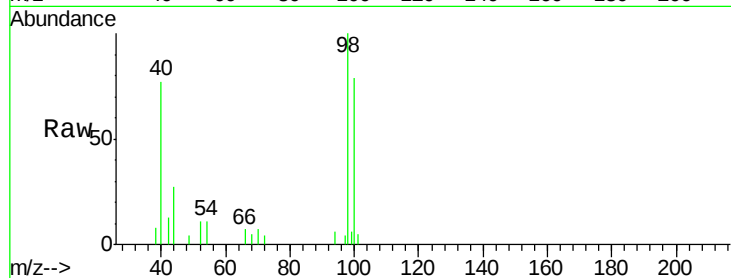




#50  
Toluene-d8  
Concen: 42.292 ug/l  
RT: 7.55 min Scan# 702  
Delta R.T. -0.01 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

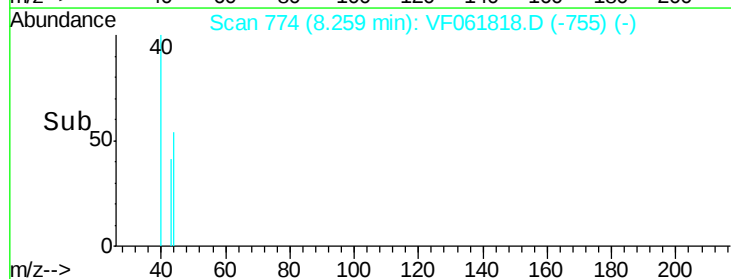
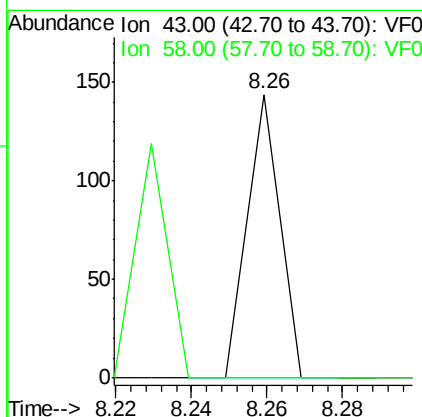
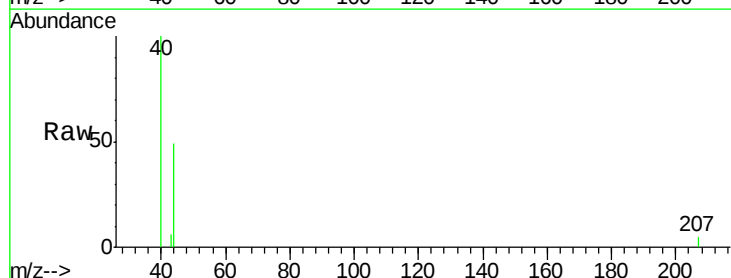
Instrument :  
MSVOA\_F  
ClientSampleId :  
200051RE

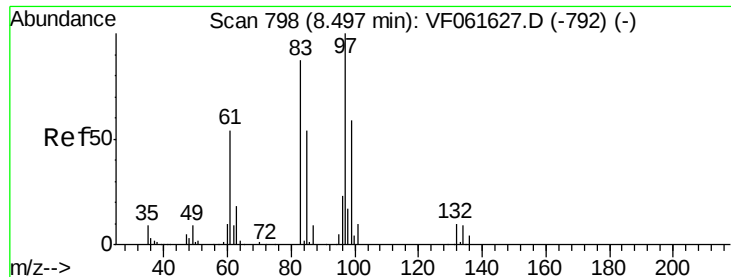
Tot Ion: 98 Resp: 7601  
Ion Ratio Lower Upper  
98 100  
100 79.0 55.4 83.2



#51  
4-Methyl-2-Pentanone  
Concen: 2.594 ug/l  
RT: 8.26 min Scan# 774  
Delta R.T. -0.01 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

Tgt Ion: 43 Resp: 85  
Ion Ratio Lower Upper  
43 100  
58 0.0 33.1 49.7#

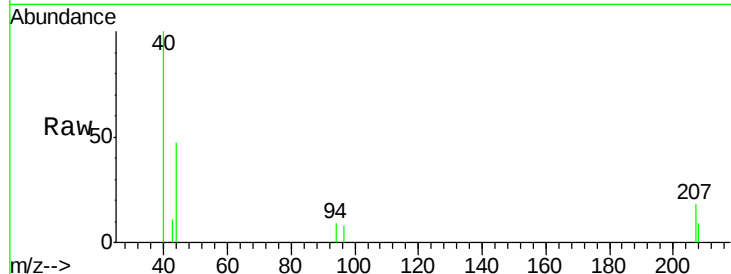




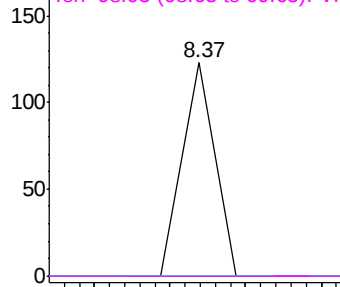
#55  
 1,1,2-Trichloroethane  
 Concen: 1.878 ug/l  
 RT: 8.37 min Scan# 785  
 Delta R.T. -0.13 min  
 Lab File: VF061818.D  
 Acq: 1 Mar 2019 22:40

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 200051RE

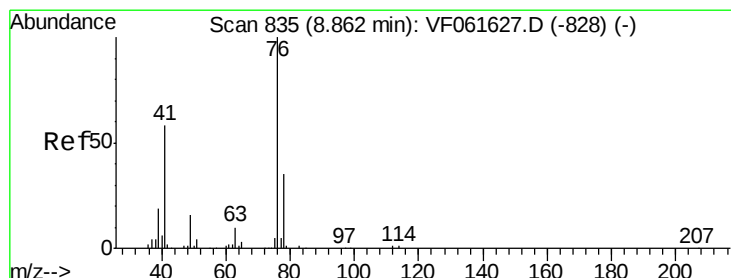
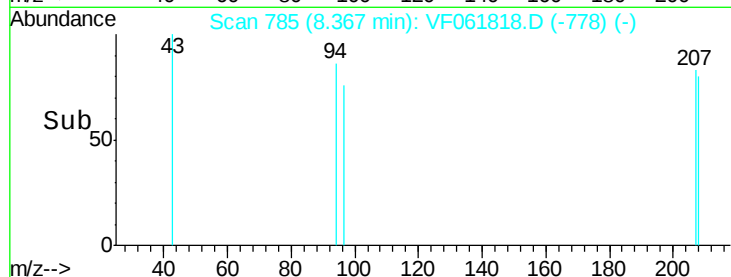
Tot Ion: 97 Resp: 73  
 Ion Ratio Lower Upper  
 97 100  
 83 0.0 69.2 103.8#  
 85 0.0 43.0 64.4#  
 99 0.0 47.2 70.8#



Abundance Ion 97.00 (96.70 to 97.70): VF0  
 Ion 82.95 (82.65 to 83.65): VF0  
 Ion 84.95 (84.65 to 85.65): VF0  
 Ion 98.95 (98.65 to 99.65): VF0

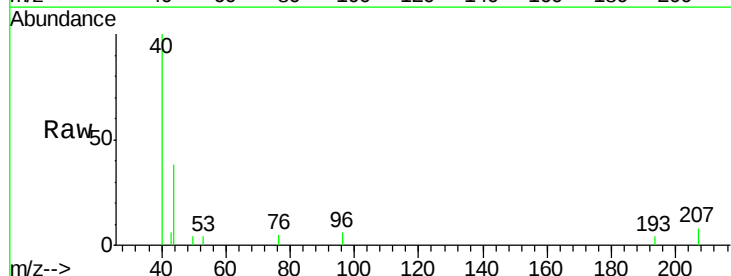


Time--> 8.34 8.36 8.38 8.40

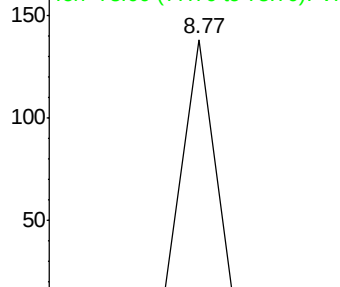


#57  
 1,3-Dichloropropane  
 Concen: 1.264 ug/l  
 RT: 8.77 min Scan# 826  
 Delta R.T. -0.09 min  
 Lab File: VF061818.D  
 Acq: 1 Mar 2019 22:40

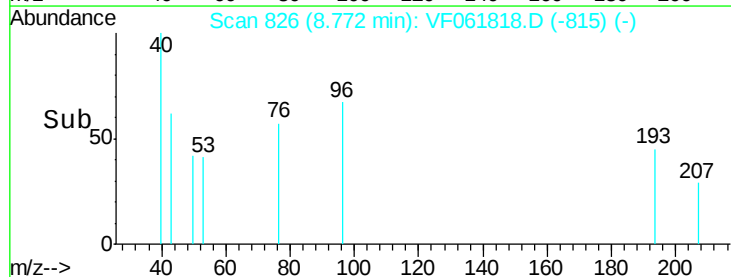
Tgt Ion: 76 Resp: 82  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 27.8 41.6#

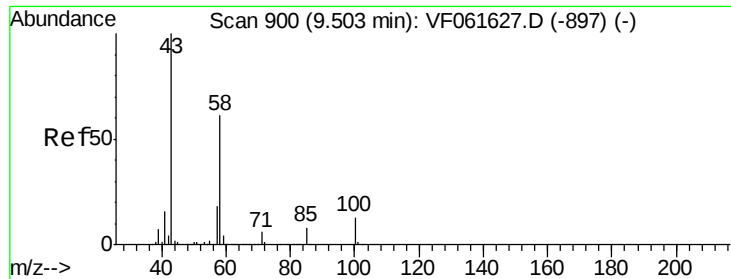


Abundance Ion 76.00 (75.70 to 76.70): VF0  
 Ion 78.00 (77.70 to 78.70): VF0



Time--> 8.74 8.76 8.78 8.80

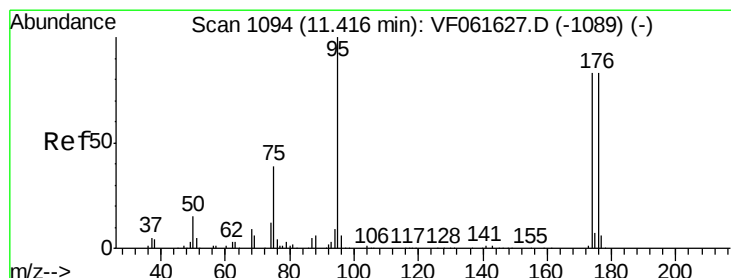
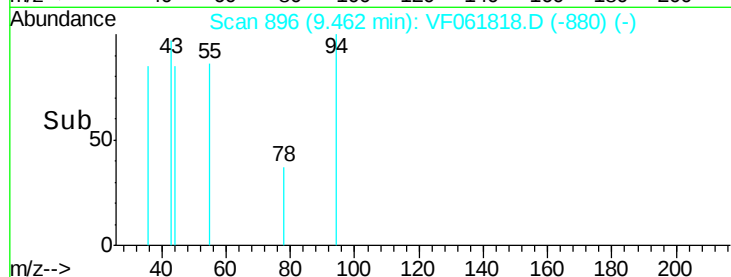
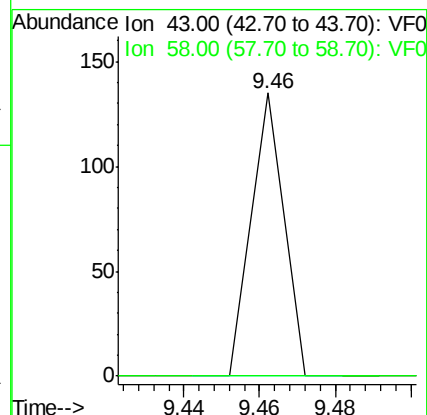
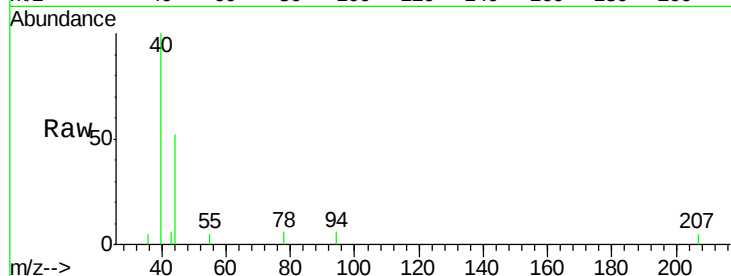




#59  
2-Hexanone  
Concen: 3.483 ug/l  
RT: 9.46 min Scan# 896  
Delta R.T. -0.04 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

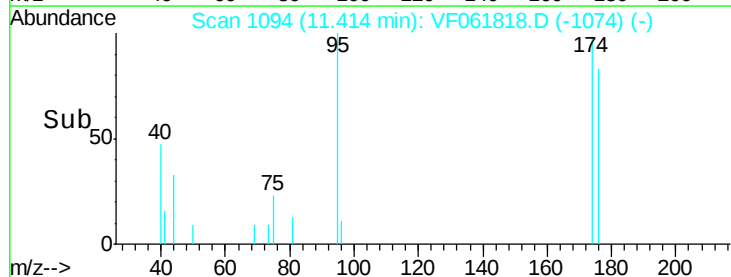
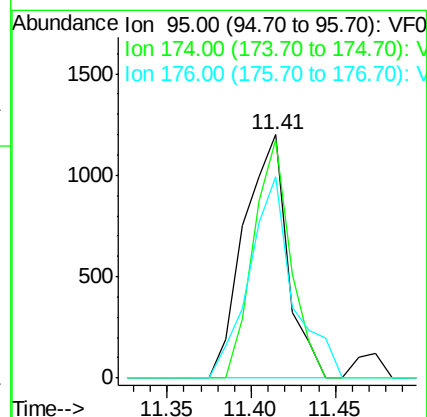
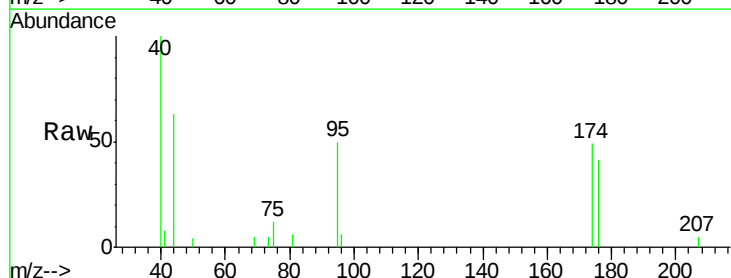
Instrument :  
MSVOA\_F  
ClientSampleId :  
200051RE

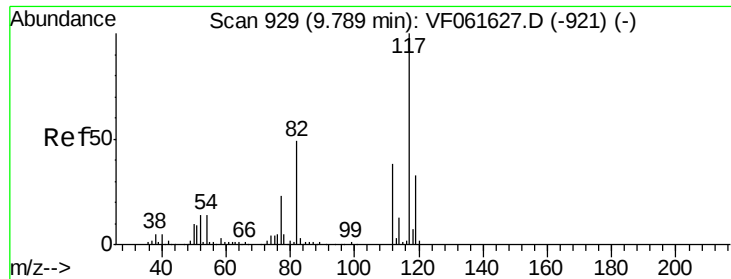
Tot Ion: 43 Resp: 80  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.5 85.5#



#62  
4-Bromofluorobenzene  
Concen: 29.620 ug/l  
RT: 11.41 min Scan# 1094  
Delta R.T. -0.00 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

Tgt Ion: 95 Resp: 2154  
Ion Ratio Lower Upper  
95 100  
174 97.8 0.0 165.8  
176 82.9 0.0 167.0

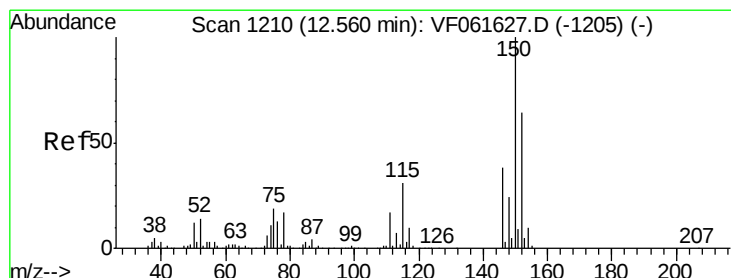
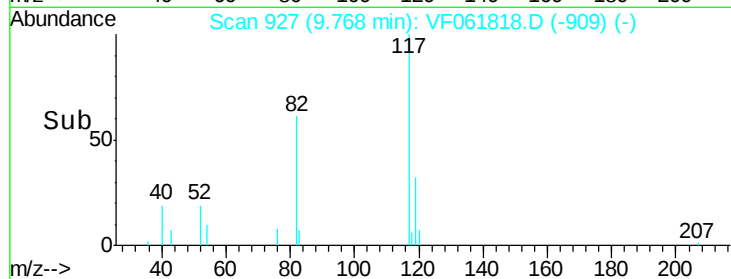
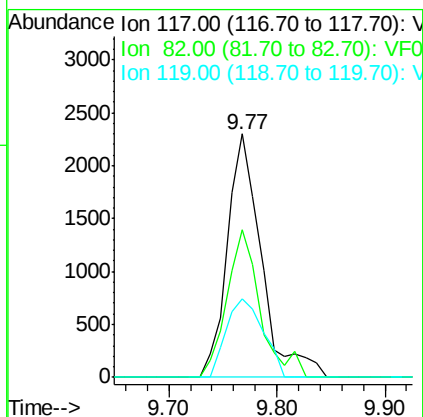
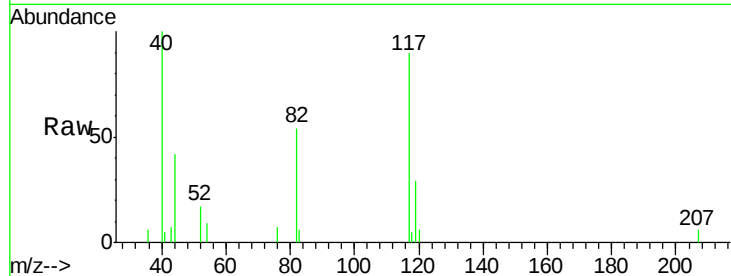




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.77 min Scan# 927  
Delta R.T. -0.02 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

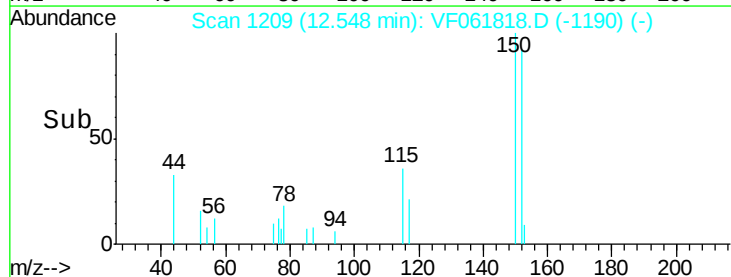
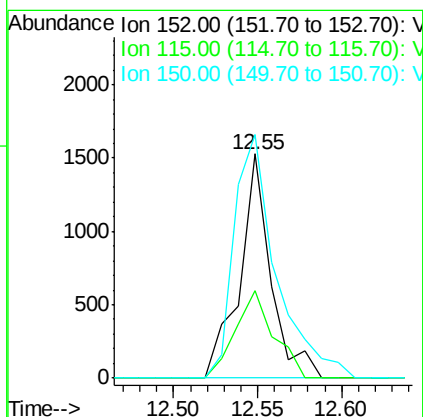
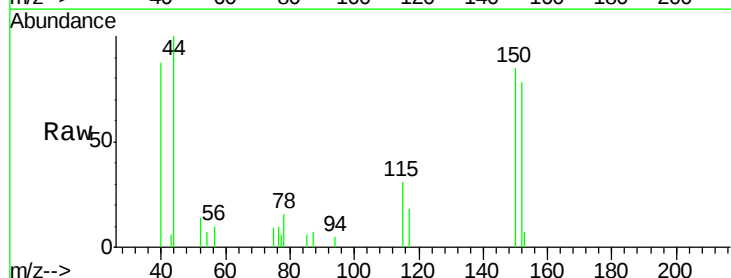
Instrument :  
MSVOA\_F  
ClientSampleId :  
200051RE

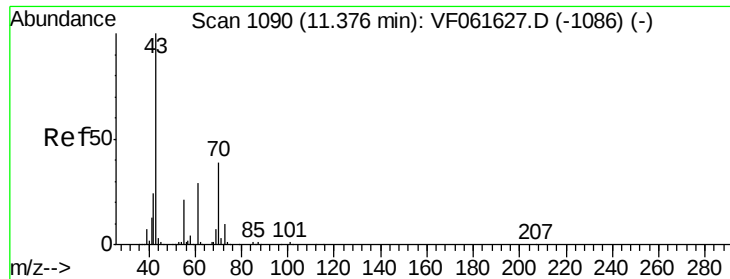
Tot Ion:117 Resp: 5060  
Ion Ratio Lower Upper  
117 100  
82 60.6 39.3 58.9#  
119 32.5 26.6 40.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.55 min Scan# 1209  
Delta R.T. -0.01 min  
Lab File: VF061818.D  
Acq: 1 Mar 2019 22:40

Tgt Ion:152 Resp: 1964  
Ion Ratio Lower Upper  
152 100  
115 39.3 24.3 72.8  
150 108.8 0.0 312.0





#74

N-amyl acetate

Concen: 5.333 ug/l

RT: 11.38 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampled :

200051RE

Tot Ion: 43 Resp: 179

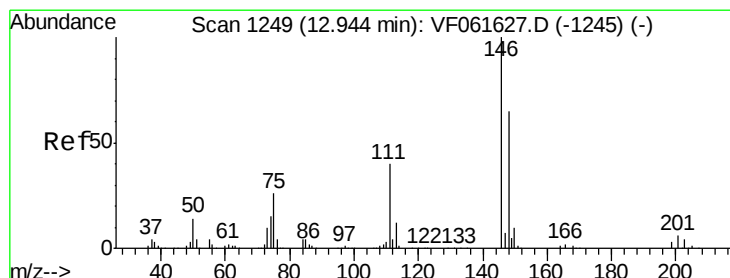
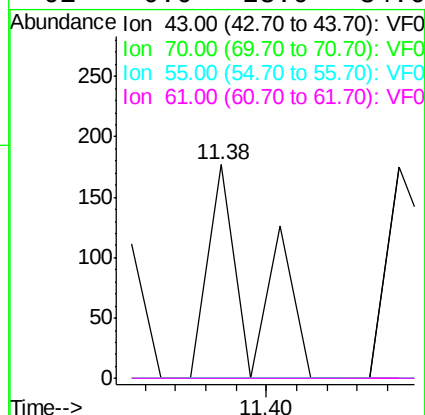
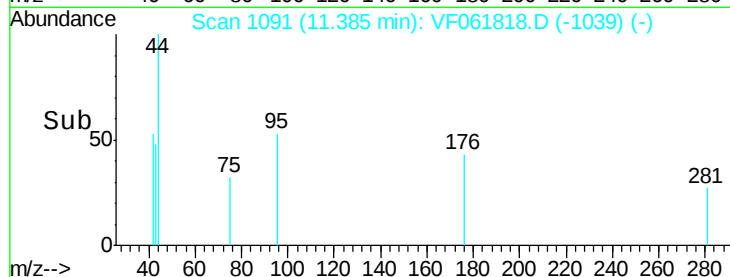
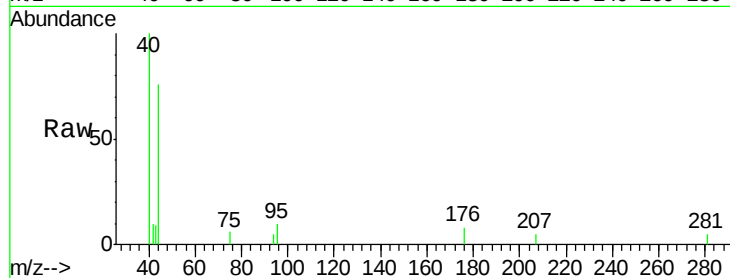
Ion Ratio Lower Upper

43 100

70 0.0 31.5 47.3#

55 0.0 16.7 25.1#

61 0.0 23.0 34.6#



#91

1,2-Dichlorobenzene

Concen: 1.280 ug/l

RT: 12.99 min Scan# 1254

Delta R.T. 0.05 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

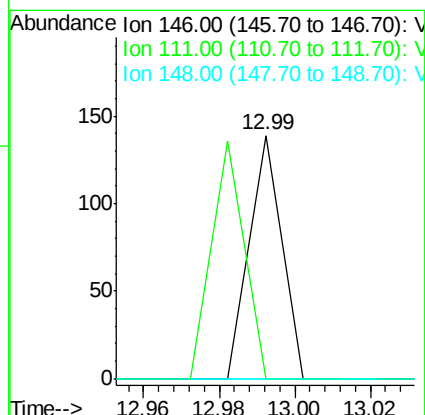
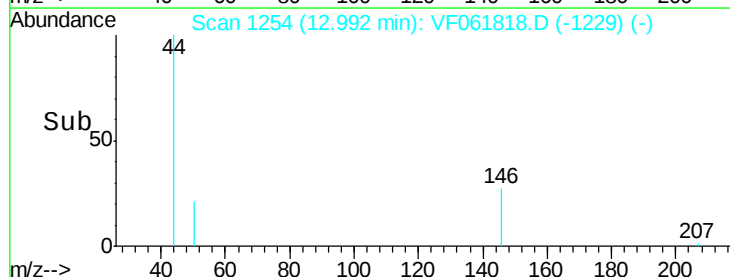
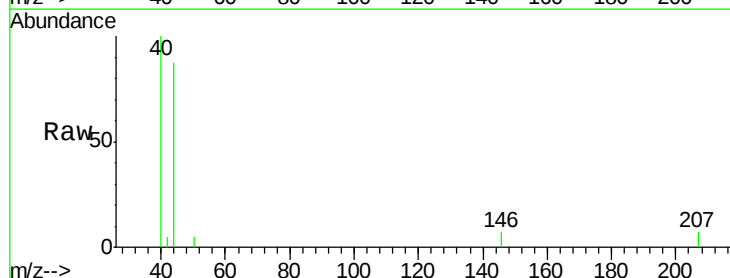
Tgt Ion: 146 Resp: 82

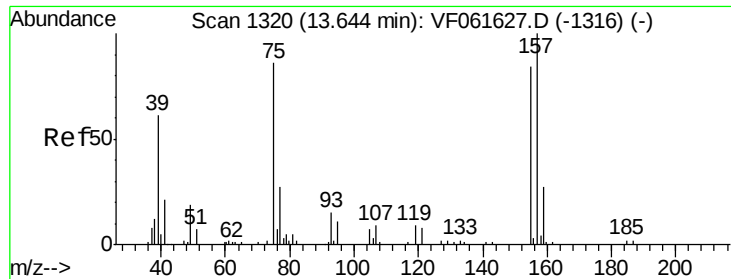
Ion Ratio Lower Upper

146 100

111 0.0 20.2 60.5#

148 0.0 32.3 96.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 18.127 ug/l

RT: 13.67 min Scan# 1323

Delta R.T. 0.03 min

Lab File: VF061818.D

Acq: 1 Mar 2019 22:40

Instrument :

MSVOA\_F

ClientSampleId :

200051RE

Tot Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

155 0.0 48.9 146.8#

157 0.0 58.3 174.8#

