

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF121018\  
 Data File : VF060960.D  
 Acq On : 10 Dec 2018 18:20  
 Operator : VA/AP  
 Sample : J6290-01RE  
 Misc : 5.01g/5mL/MSVOA-F/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SOILRE

Quant Time: Dec 11 04:58:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T. | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.86 | 168  | 706      | 50.00 | ug/l  | -0.05    |
| 34) 1,4-Difluorobenzene    | 5.58 | 114  | 917      | 50.00 | ug/l  | -0.06    |
| 63) Chlorobenzene-d5       | 9.77 | 117  | 294      | 50.00 | ug/l  | -0.04    |
| 72) 1,4-Dichlorobenzene-d4 | 0.00 | 152  | 0        | 0.00  | ug/l  | -12.57   |

|                             |        |     |          |       |        |       |
|-----------------------------|--------|-----|----------|-------|--------|-------|
| System Monitoring Compounds |        |     |          |       |        |       |
| 33) 1,2-Dichloroethane-d4   | 4.85   | 65  | 62       | 7.45  | ug/l   | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 14.90% |       |
| 35) Dibromofluoromethane    | 4.11   | 113 | 142      | 19.52 | ug/l   | -0.04 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 39.04% |       |
| 50) Toluene-d8              | 7.56   | 98  | 537      | 25.06 | ug/l   | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 50.12% |       |
| 62) 4-Bromofluorobenzene    | 11.23  | 95  | 68       | 6.98  | ug/l   | -0.21 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 13.96% |       |

| Target Compounds             |      |     |      |          |        | Qvalue |
|------------------------------|------|-----|------|----------|--------|--------|
| 2) Dichlorodifluoromethane   | 0.82 | 85  | 69   | 6.536    | ug/l # | 41     |
| 3) Chloromethane             | 1.04 | 50  | 85   | 12.374   | ug/l # | 41     |
| 5) Bromomethane              | 1.33 | 94  | 507  | 112.217  | ug/l # | 2      |
| 6) Chloroethane              | 1.45 | 64  | 70   | 25.274   | ug/l # | 1      |
| 8) Diethyl Ether             | 1.65 | 74  | 147  | 74.360   | ug/l   | 100    |
| 10) Methyl Iodide            | 2.02 | 142 | 81   | 7.668    | ug/l # | 26     |
| 11) Tert butyl alcohol       | 2.54 | 59  | 59   | 173.056  | ug/l # | 1      |
| 12) 1,1-Dichloroethene       | 1.79 | 96  | 85   | 15.205   | ug/l # | 1      |
| 13) Acrolein                 | 1.99 | 56  | 323  | 999.937  | ug/l   | 89     |
| 14) Allyl chloride           | 2.11 | 41  | 365  | 52.385   | ug/l # | 85     |
| 15) Acrylonitrile            | 2.94 | 53  | 227  | 296.989  | ug/l # | 75     |
| 16) Acetone                  | 2.24 | 43  | 540  | 352.093  | ug/l # | 65     |
| 17) Carbon Disulfide         | 1.92 | 76  | 152  | 10.141   | ug/l # | 68     |
| 18) Methyl Acetate           | 2.38 | 43  | 213  | 83.901   | ug/l   | 97     |
| 19) Methyl tert-butyl Ether  | 2.45 | 73  | 166  | 13.184   | ug/l # | 1      |
| 20) Methylene Chloride       | 2.24 | 84  | 135  | 23.994   | ug/l # | 1      |
| 21) trans-1,2-Dichloroethene | 2.28 | 96  | 76   | 14.102   | ug/l # | 1      |
| 22) Diisopropyl ether        | 2.83 | 45  | 554  | 29.210   | ug/l # | 31     |
| 23) Vinyl Acetate            | 3.16 | 43  | 543  | 62.634   | ug/l # | 80     |
| 24) 1,1-Dichloroethane       | 2.83 | 63  | 204  | 18.079   | ug/l # | 86     |
| 25) 2-Butanone               | 4.30 | 43  | 616  | 232.213  | ug/l # | 57     |
| 26) 2,2-Dichloropropane      | 3.59 | 77  | 162  | 22.145   | ug/l # | 60     |
| 27) cis-1,2-Dichloroethene   | 3.48 | 96  | 69   | 7.864    | ug/l   | 1      |
| 29) Tetrahydrofuran          | 4.09 | 42  | 274  | 243.673  | ug/l # | 37     |
| 30) Chloroform               | 3.84 | 83  | 119  | 6.852    | ug/l # | 17     |
| 31) Cyclohexane              | 3.71 | 56  | 67   | 5.721    | ug/l # | 15     |
| 37) Ethyl Acetate            | 4.09 | 43  | 520  | 125.809  | ug/l # | 14     |
| 39) Methylcyclohexane        | 5.50 | 83  | 82   | 7.693    | ug/l # | 13     |
| 41) Methacrylonitrile        | 4.74 | 41  | 406  | 201.472  | ug/l # | 23     |
| 42) 1,2-Dichloroethane       | 4.87 | 62  | 83   | 10.118   | ug/l   | 76     |
| 43) Isopropyl Acetate        | 6.93 | 43  | 418  | 83.805   | ug/l # | 49     |
| 48) Methyl methacrylate      | 6.64 | 41  | 1057 | 282.521  | ug/l # | 35     |
| 49) 1,4-Dioxane              | 6.92 | 88  | 60   | 2191.260 | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone     | 8.21 | 43  | 394  | 103.371  | ug/l # | 38     |

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SOILRE

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 27 01:36:26 2018  
Response via : Initial Calibration

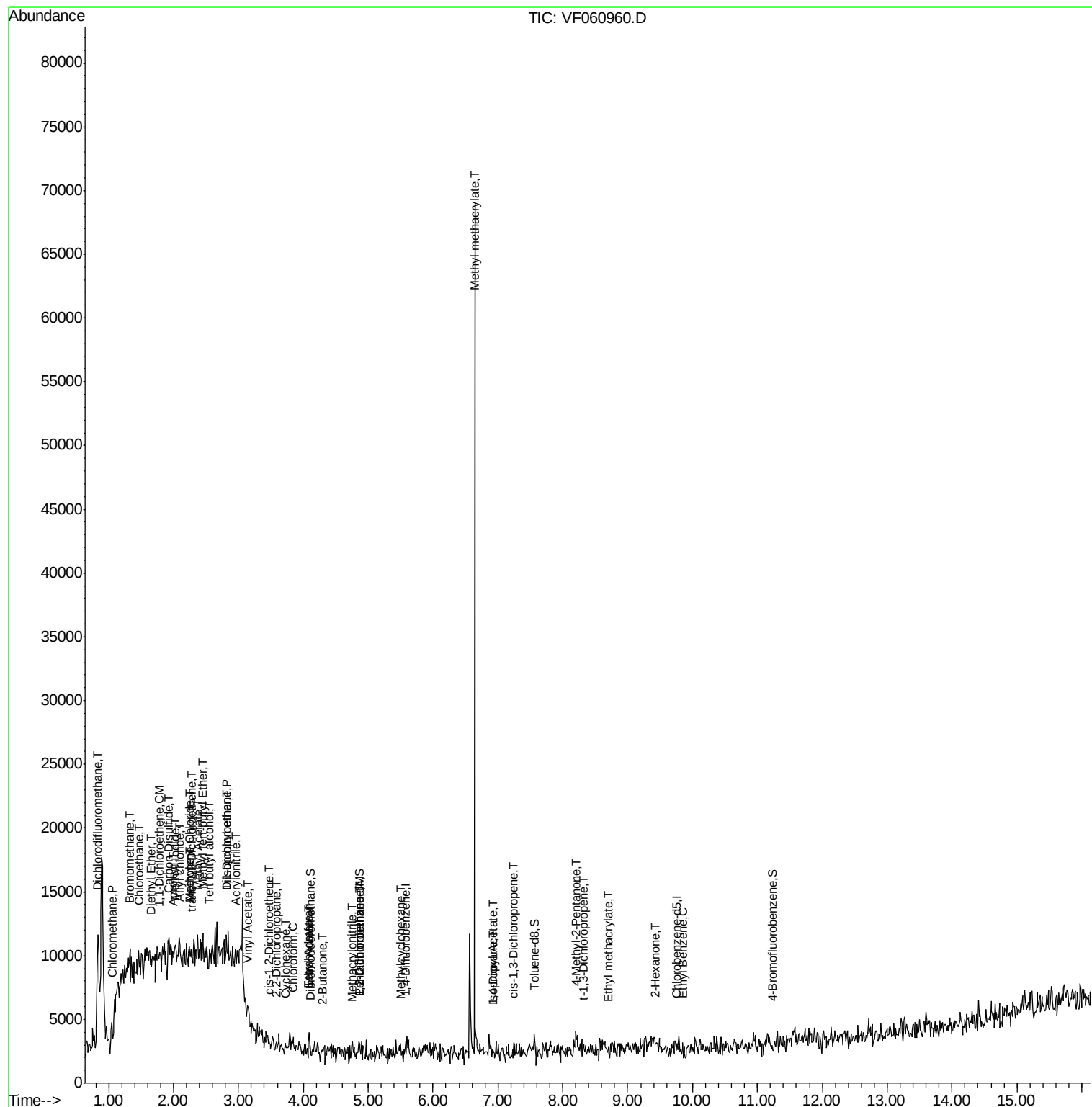
| Internal Standards          | R.T. | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|------|------|----------|--------|--------|----------|
| 53) t-1,3-Dichloropropene   | 8.33 | 75   | 67       | 7.834  | ug/l # | 40       |
| 54) cis-1,3-Dichloropropene | 7.25 | 75   | 62       | 5.856  | ug/l # | 26       |
| 56) Ethyl methacrylate      | 8.71 | 69   | 72       | 14.093 | ug/l # | 47       |
| 59) 2-Hexanone              | 9.44 | 43   | 114      | 42.633 | ug/l # | 27       |
| 67) Ethyl Benzene           | 9.85 | 91   | 64       | 6.011  | ug/l # | 47       |

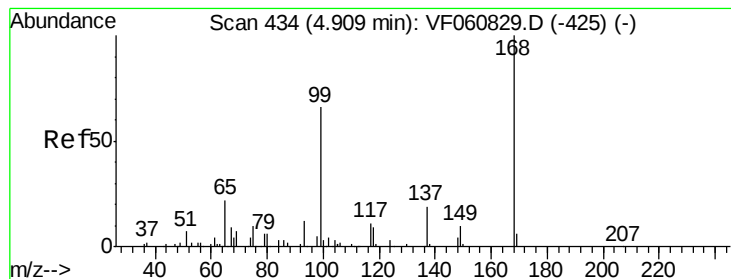
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleId :

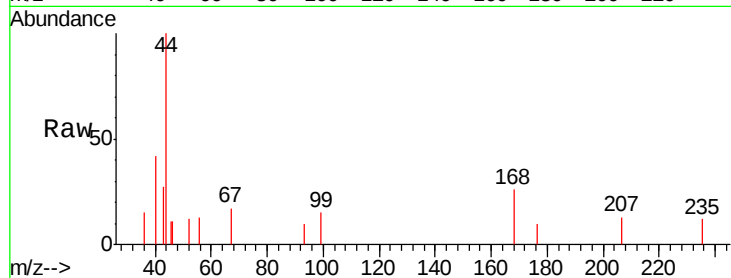
SOILRE

Tgt Ion:168 Resp: 706

Ion Ratio Lower Upper

168 100

99 55.6 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

250

200

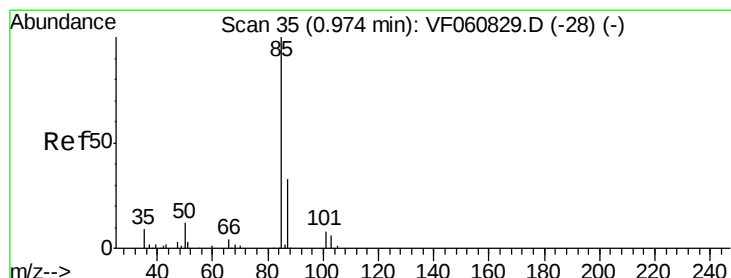
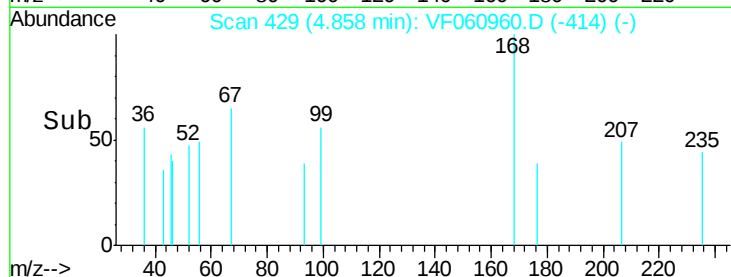
150

100

50

0

Time-->



#2

Dichlorodifluoromethane

Concen: 6.536 ug/l

RT: 0.82 min Scan# 20

Delta R.T. -0.15 min

Lab File: VF060960.D

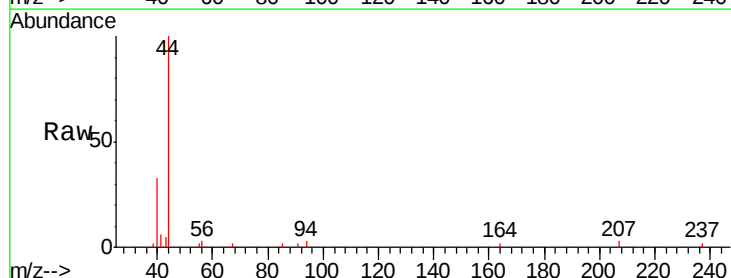
Acq: 10 Dec 2018 18:20

Tgt Ion: 85 Resp: 69

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

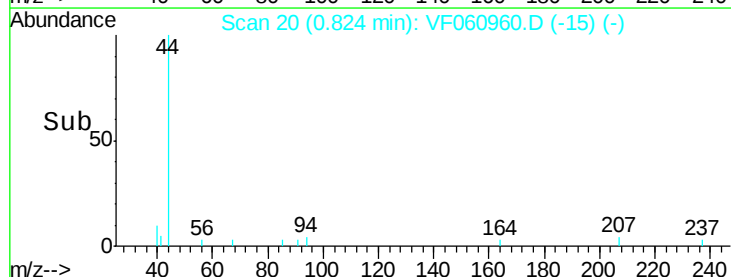
0.82

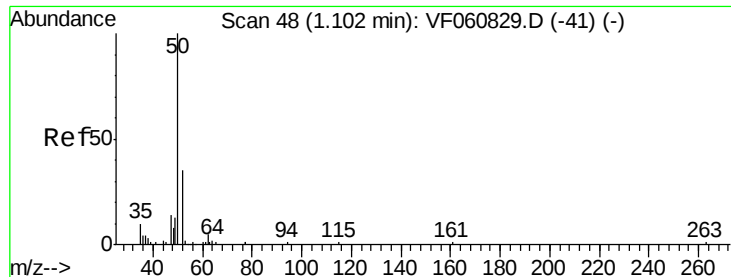
100

50

0

Time-->





#3

Chloromethane

Concen: 12.374 ug/l

RT: 1.04 min Scan# 42

Delta R.T. -0.06 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleId :

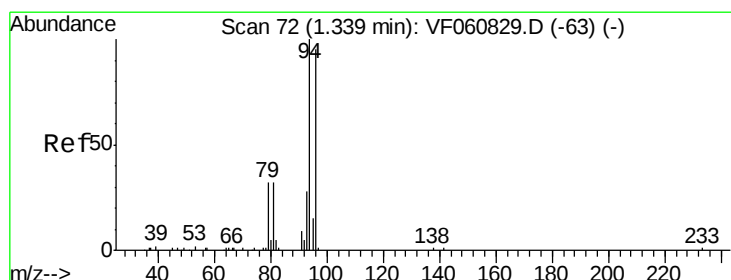
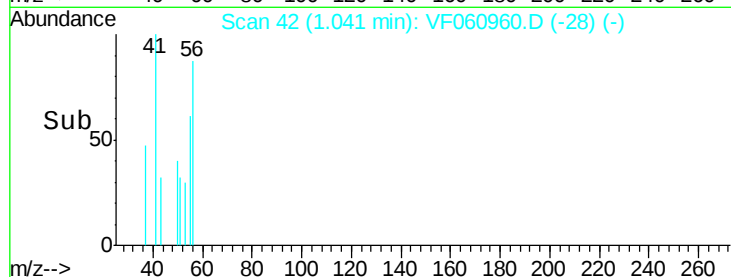
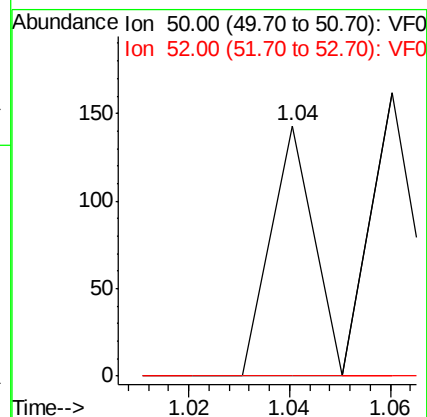
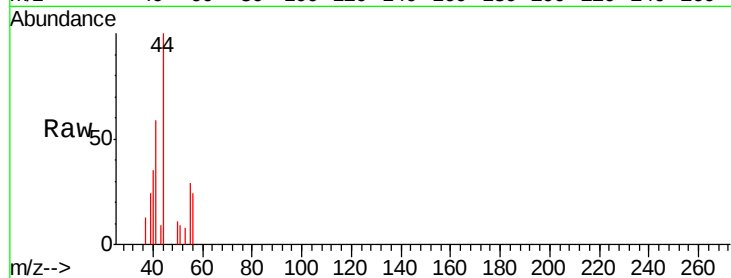
SOILRE

Tgt Ion: 50 Resp: 85

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.4#



#5

Bromomethane

Concen: 112.217 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060960.D

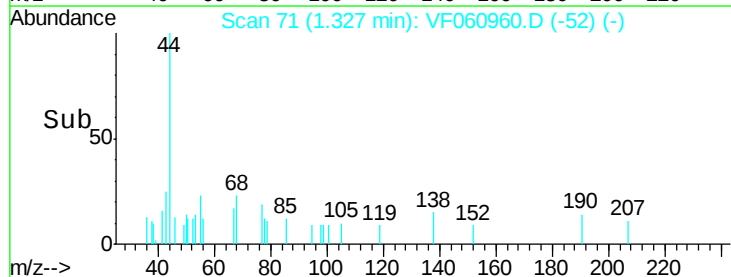
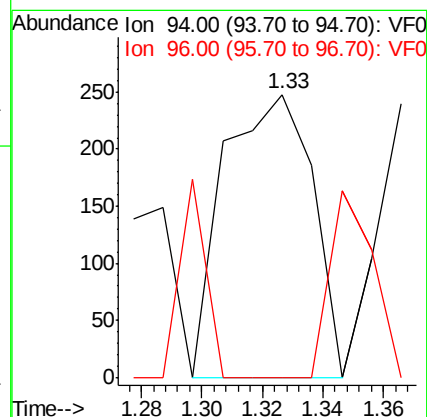
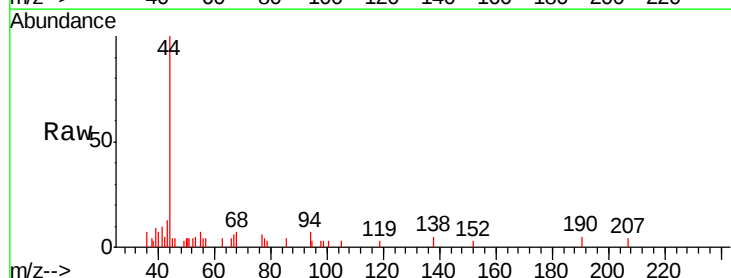
Acq: 10 Dec 2018 18:20

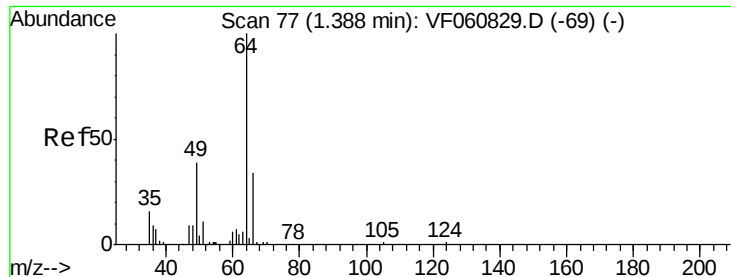
Tgt Ion: 94 Resp: 507

Ion Ratio Lower Upper

94 100

96 0.0 75.9 113.9#





#6

Chloroethane

Concen: 25.274 ug/l

RT: 1.45 min Scan# 84

Delta R.T. 0.07 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleId :

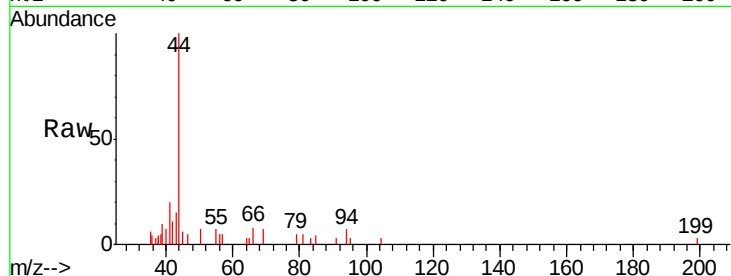
SOILRE

Tgt Ion: 64 Resp: 70

Ion Ratio Lower Upper

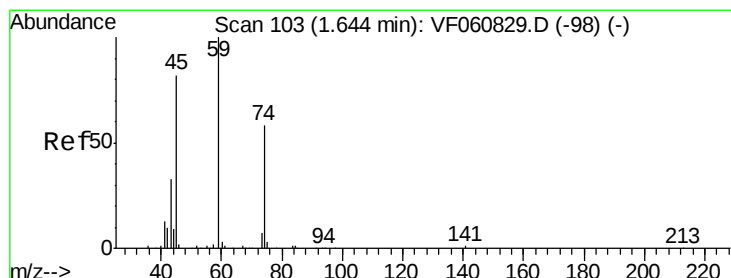
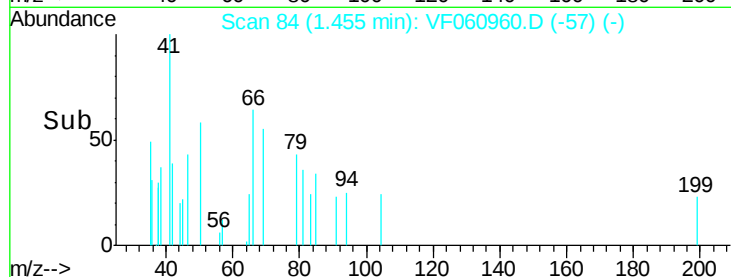
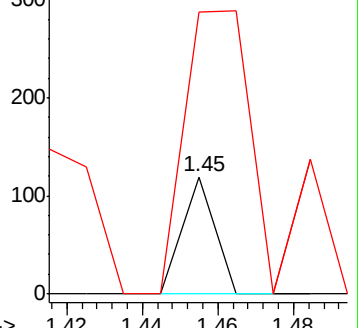
64 100

66 241.2 28.1 42.1#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 74.360 ug/l

RT: 1.65 min Scan# 104

Delta R.T. 0.01 min

Lab File: VF060960.D

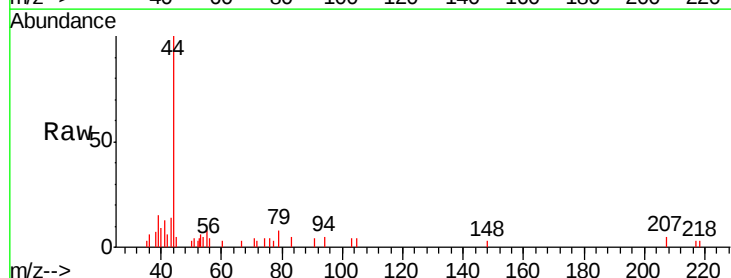
Acq: 10 Dec 2018 18:20

Tgt Ion: 74 Resp: 147

Ion Ratio Lower Upper

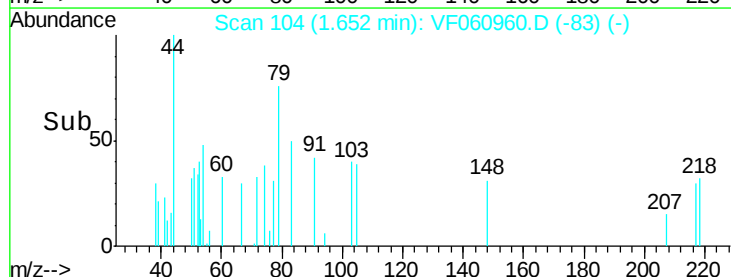
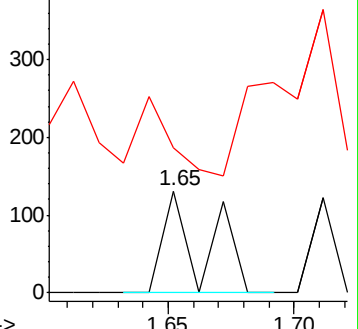
74 100

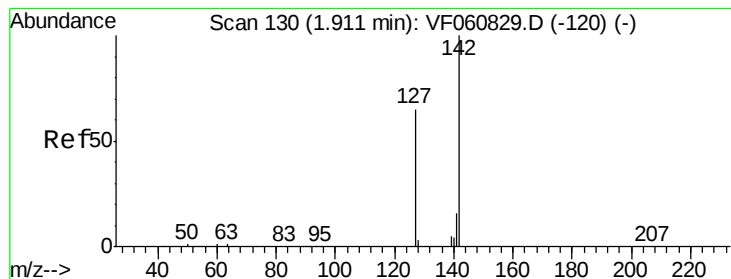
45 142.0 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#10

Methyl Iodide

Concen: 7.668 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.11 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleId :

SOILRE

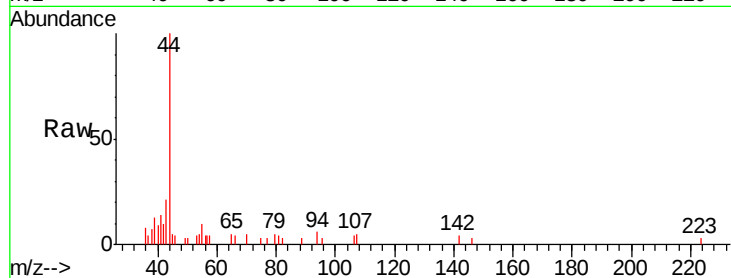
Tgt Ion:142 Resp: 81

Ion Ratio Lower Upper

142 100

127 0.0 51.9 77.9#

141 0.0 12.7 19.1#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

2.02

150

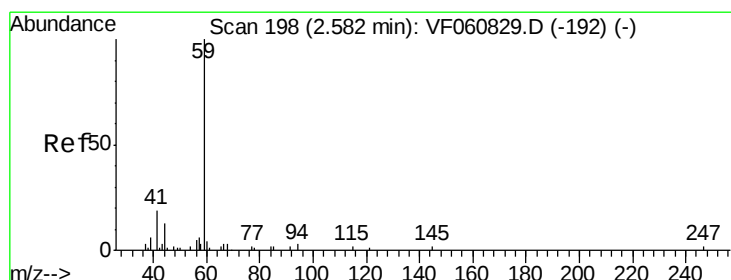
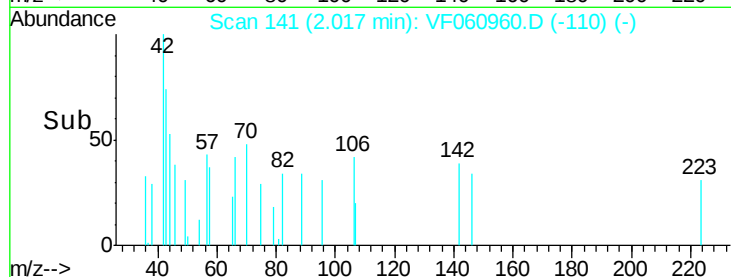
100

50

0

1.98 2.00 2.02 2.04

Time-->



#11

Tert butyl alcohol

Concen: 173.056 ug/l

RT: 2.54 min Scan# 194

Delta R.T. -0.04 min

Lab File: VF060960.D

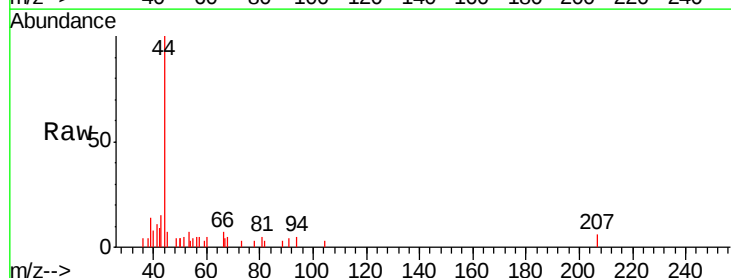
Acq: 10 Dec 2018 18:20

Tgt Ion: 59 Resp: 59

Ion Ratio Lower Upper

59 100

57 178.0 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

300

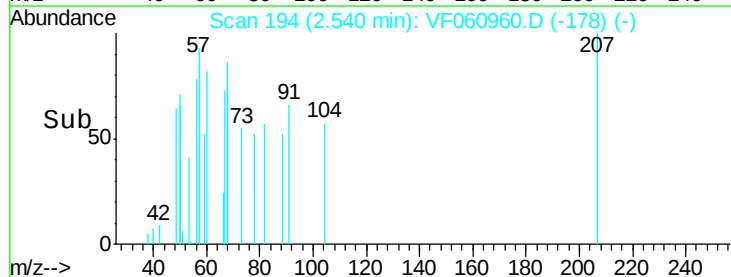
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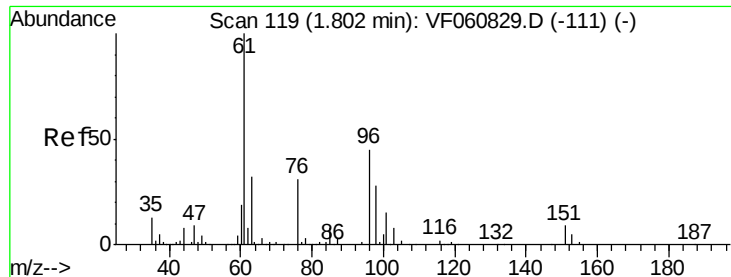
100

0

2.52 2.54 2.56

Time-->





#12

1,1-Dichloroethene

Concen: 15.205 ug/l

RT: 1.79 min Scan# 118

Delta R.T. -0.01 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampled :

SOILRE

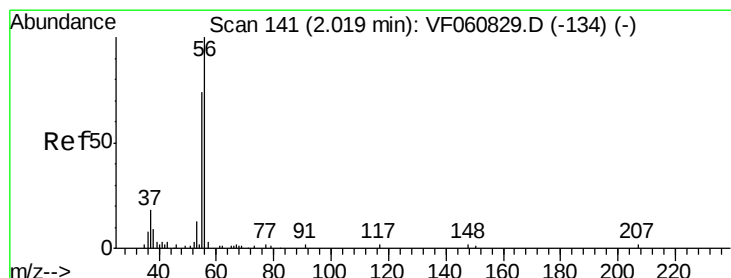
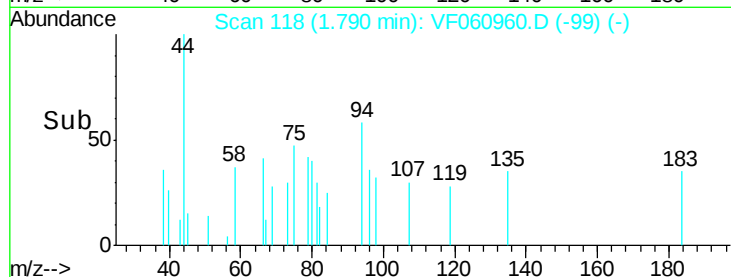
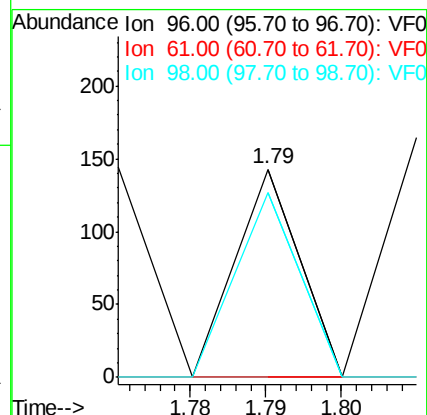
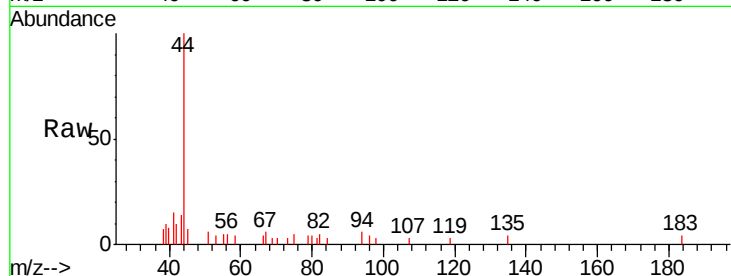
Tgt Ion: 96 Resp: 85

Ion Ratio Lower Upper

96 100

61 0.0 177.3 265.9#

98 88.8 49.6 74.4#



#13

Acrolein

Concen: 999.937 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.03 min

Lab File: VF060960.D

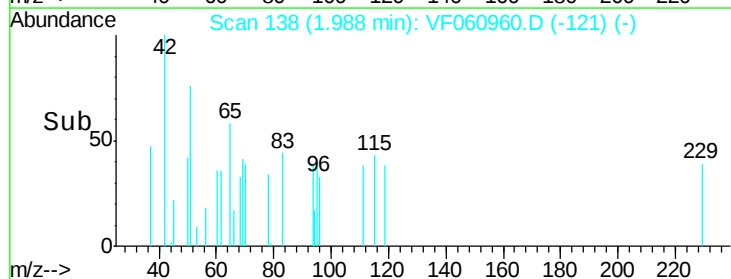
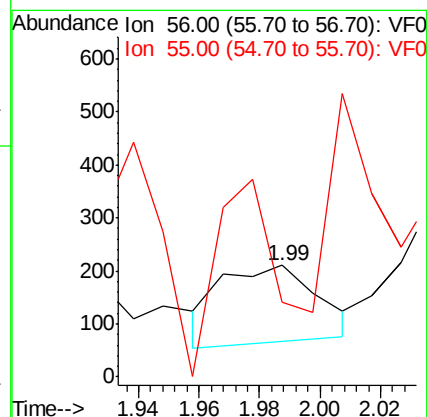
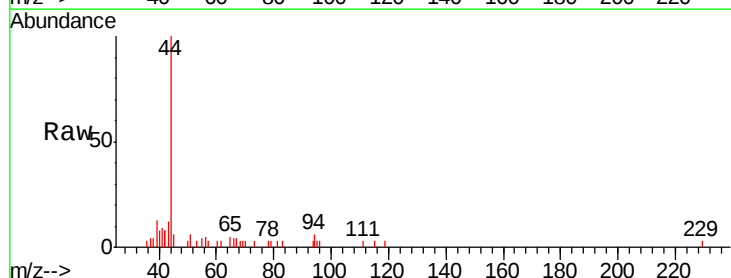
Acq: 10 Dec 2018 18:20

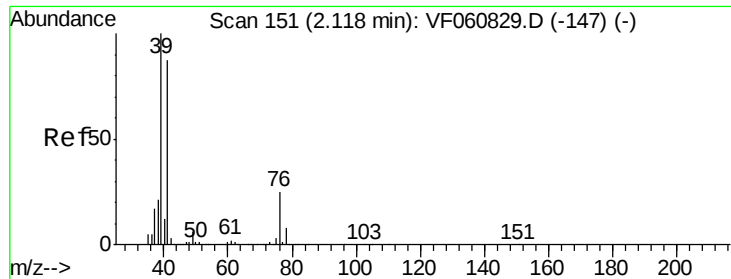
Tgt Ion: 56 Resp: 323

Ion Ratio Lower Upper

56 100

55 66.8 61.2 91.8

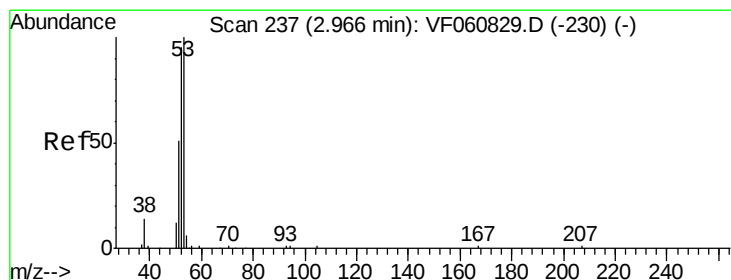
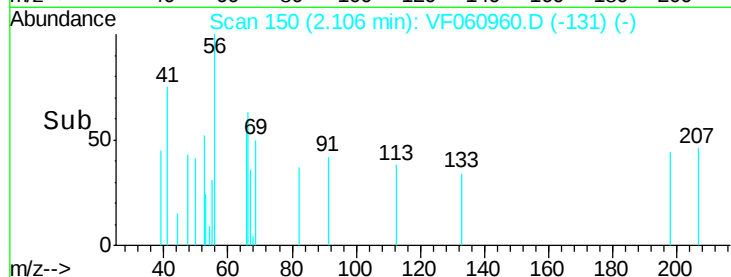
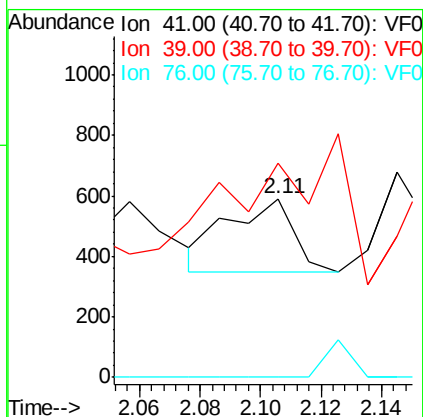
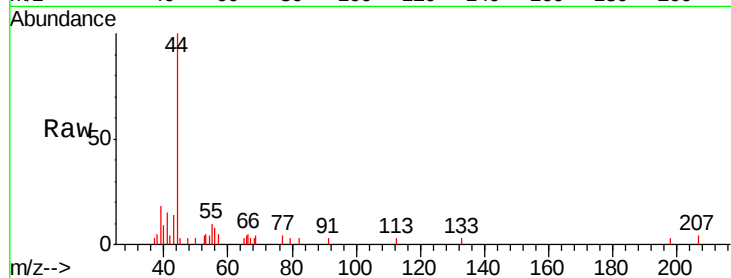




#14  
 Allyl chloride  
 Concen: 52.385 ug/l  
 RT: 2.11 min Scan# 150  
 Delta R.T. -0.01 min  
 Lab File: VF060960.D  
 Acq: 10 Dec 2018 18:20

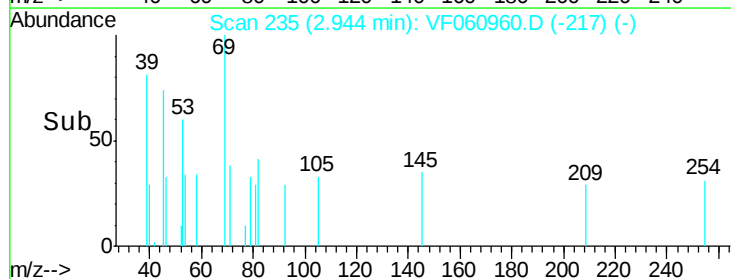
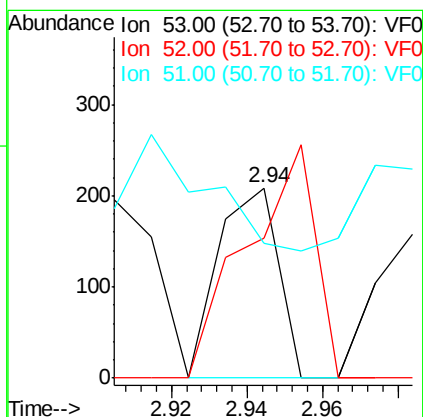
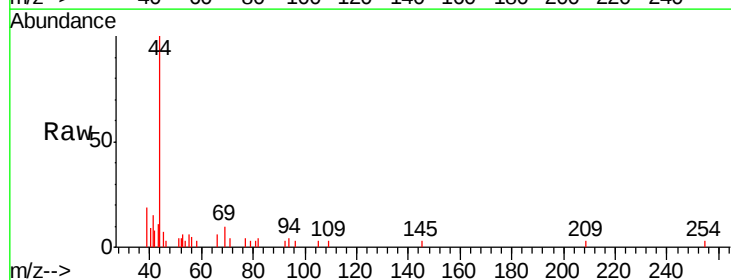
Instrument :  
 MSVOA\_F  
 ClientSampleID :  
 SOILRE

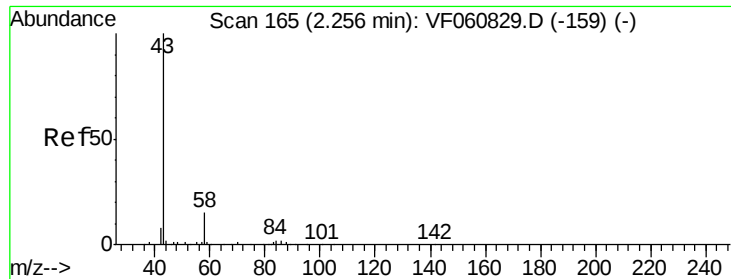
Tgt Ion: 41 Resp: 365  
 Ion Ratio Lower Upper  
 41 100  
 39 120.1 91.7 137.5  
 76 0.0 23.5 35.3#



#15  
 Acrylonitrile  
 Concen: 296.989 ug/l  
 RT: 2.94 min Scan# 235  
 Delta R.T. -0.02 min  
 Lab File: VF060960.D  
 Acq: 10 Dec 2018 18:20

Tgt Ion: 53 Resp: 227  
 Ion Ratio Lower Upper  
 53 100  
 52 73.7 76.5 114.7#  
 51 70.8 40.7 61.1#





#16

Acetone

Concen: 352.093 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleId :

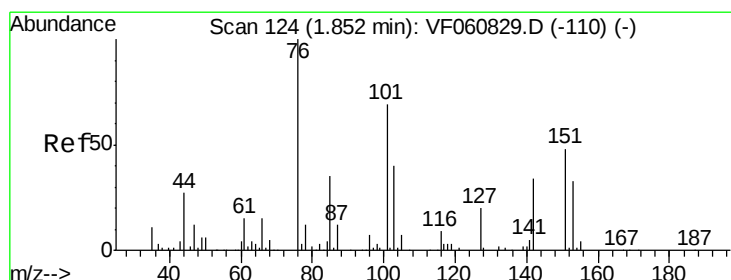
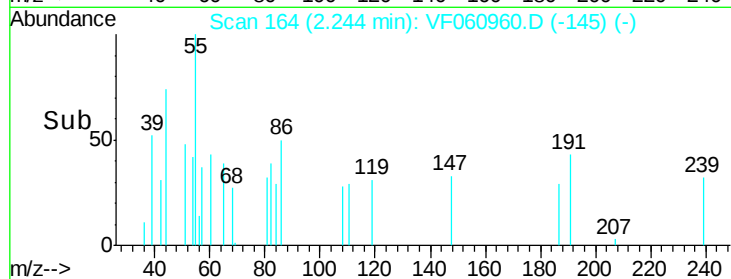
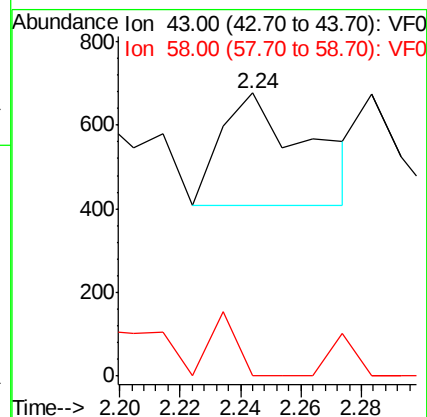
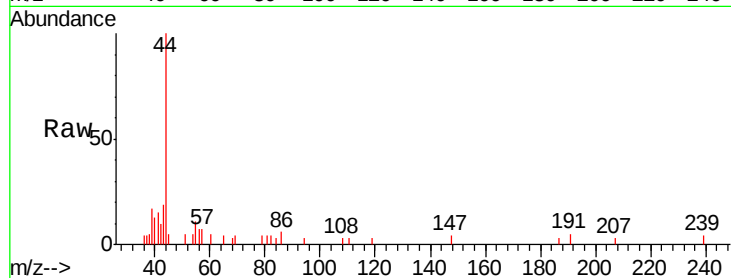
SOILRE

Tgt Ion: 43 Resp: 540

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.2#



#17

Carbon Disulfide

Concen: 10.141 ug/l

RT: 1.92 min Scan# 131

Delta R.T. 0.07 min

Lab File: VF060960.D

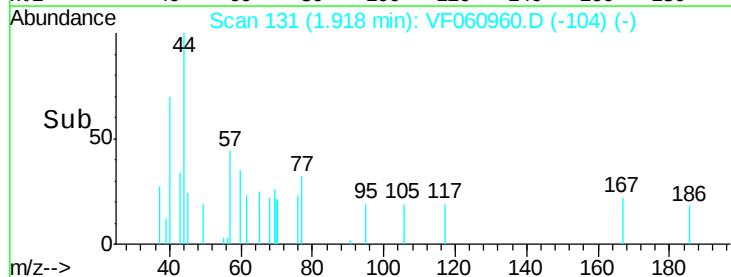
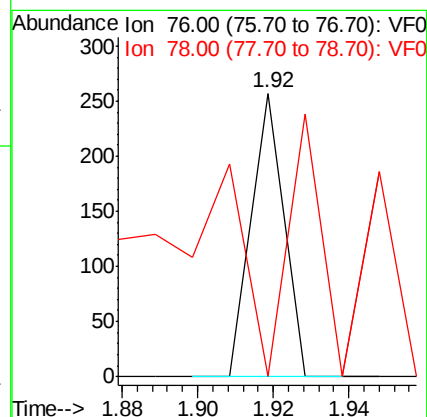
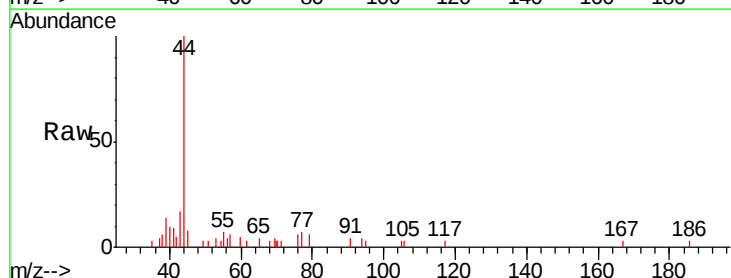
Acq: 10 Dec 2018 18:20

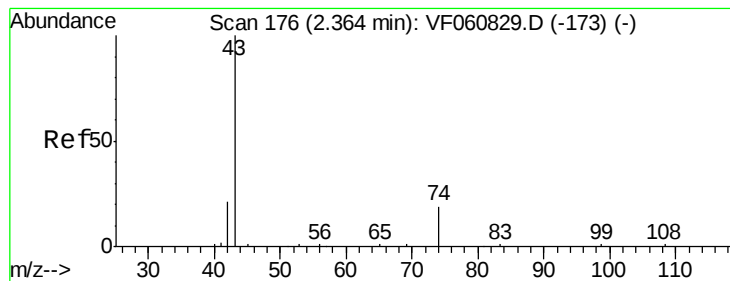
Tgt Ion: 76 Resp: 152

Ion Ratio Lower Upper

76 100

78 0.0 10.2 15.2#





#18

Methyl Acetate

Concen: 83.901 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.02 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleId :

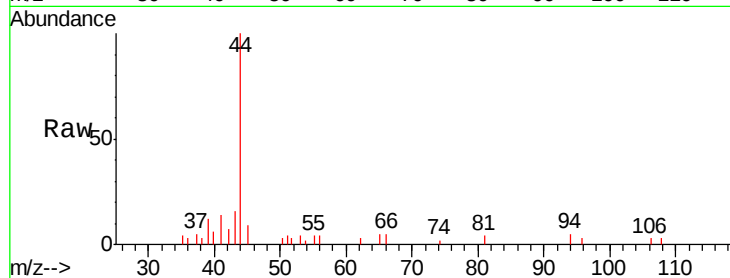
SOILRE

Tgt Ion: 43 Resp: 213

Ion Ratio Lower Upper

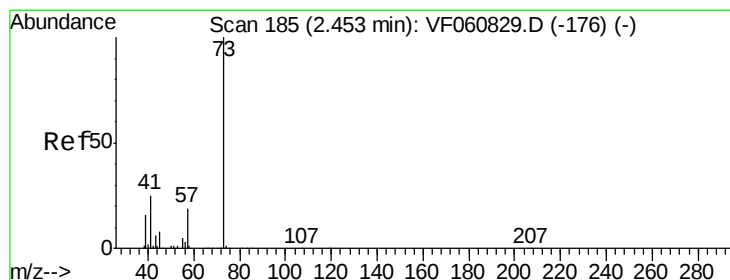
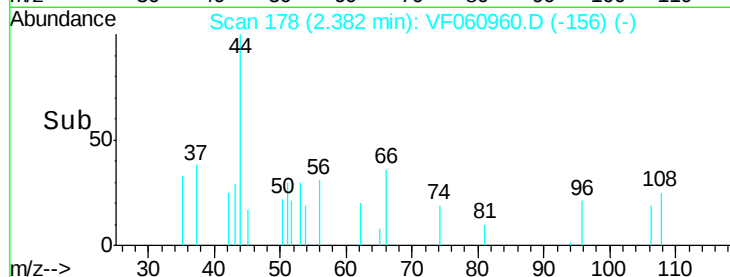
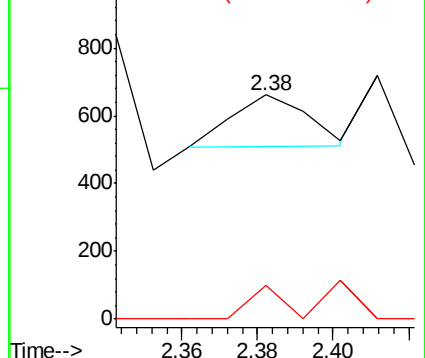
43 100

74 15.3 13.3 19.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



#19

Methyl tert-butyl Ether

Concen: 13.184 ug/l

RT: 2.45 min Scan# 185

Delta R.T. -0.00 min

Lab File: VF060960.D

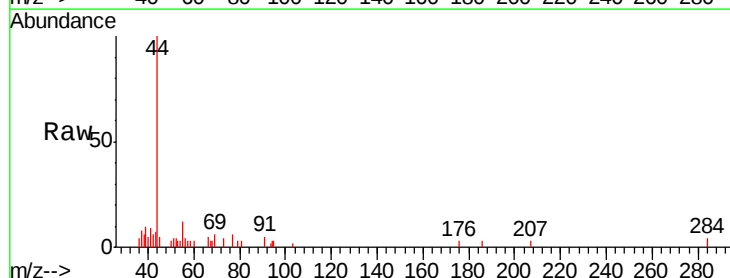
Acq: 10 Dec 2018 18:20

Tgt Ion: 73 Resp: 166

Ion Ratio Lower Upper

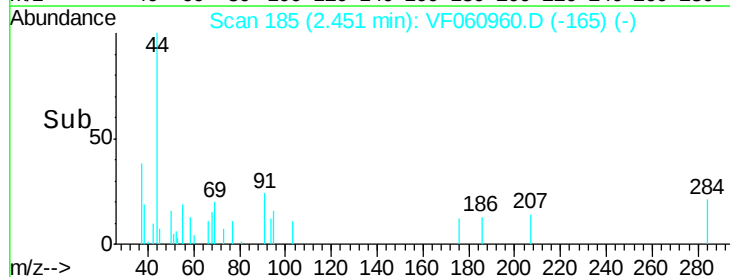
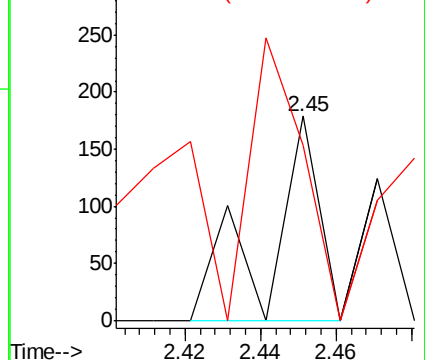
73 100

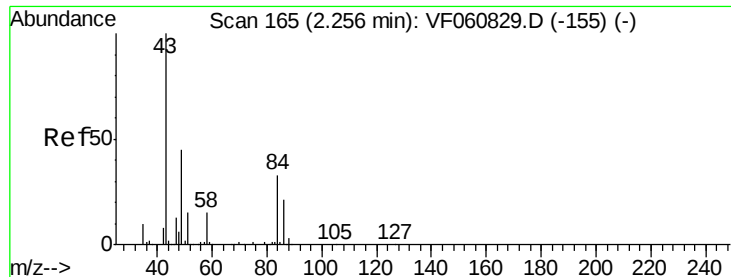
57 85.5 15.3 22.9#



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

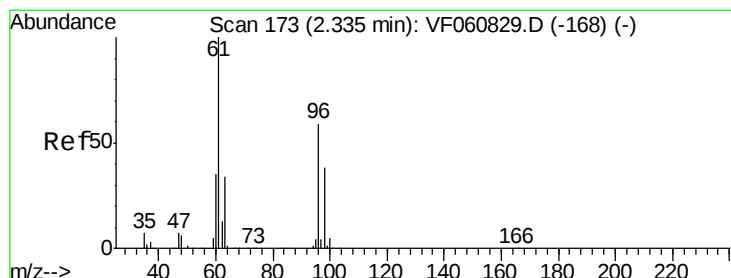
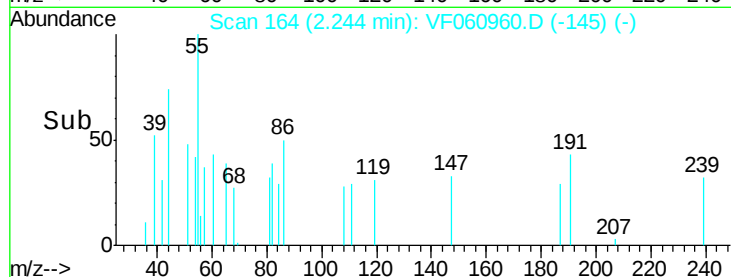
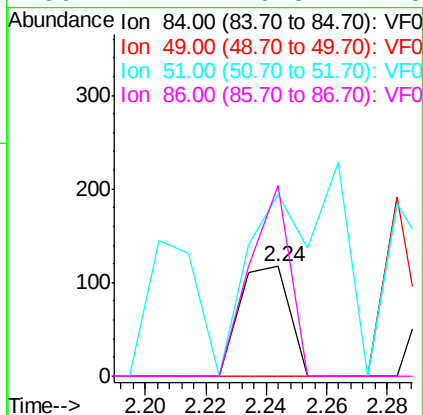
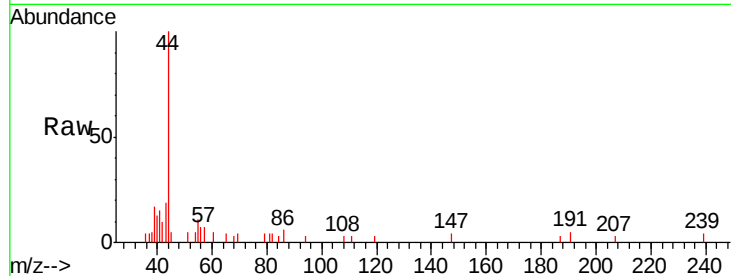




#20  
Methylene Chloride  
Concen: 23.994 ug/l  
RT: 2.24 min Scan# 164  
Delta R.T. -0.01 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

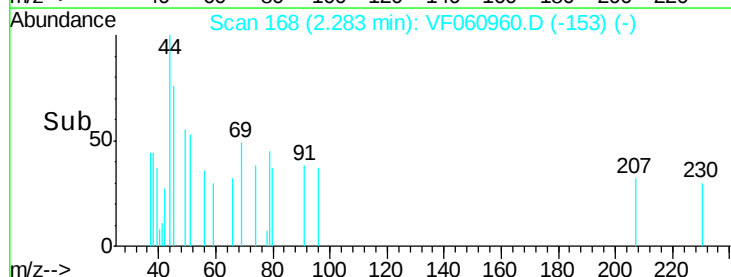
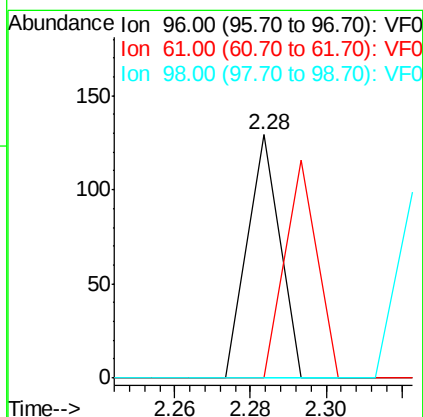
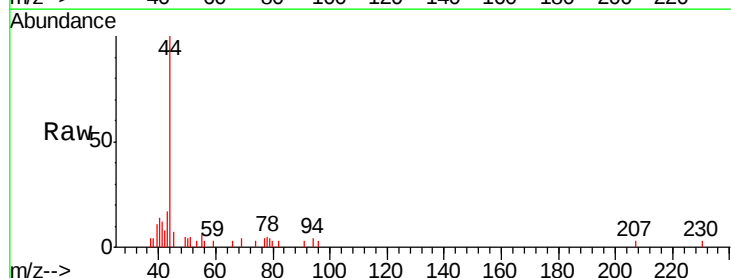
Instrument :  
MSVOA\_F  
ClientSampleId :  
SOILRE

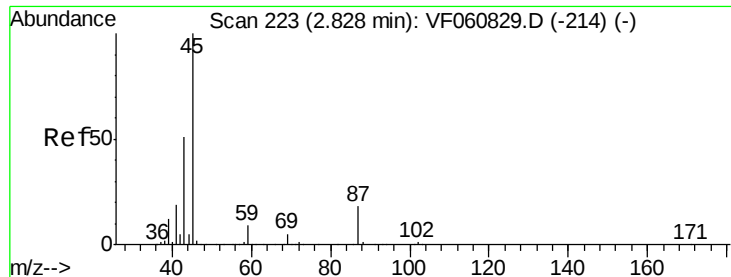
Tgt Ion: 84 Resp: 135  
Ion Ratio Lower Upper  
84 100  
49 0.0 111.3 166.9#  
51 165.8 38.0 57.0#  
86 174.4 49.8 74.8#



#21  
trans-1,2-Dichloroethene  
Concen: 14.102 ug/l  
RT: 2.28 min Scan# 168  
Delta R.T. -0.05 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

Tgt Ion: 96 Resp: 76  
Ion Ratio Lower Upper  
96 100  
61 0.0 134.5 201.7#  
98 0.0 51.6 77.4#





#22

Diisopropyl ether

Concen: 29.210 ug/l

RT: 2.83 min Scan# 223

Delta R.T. -0.00 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleId :

SOILRE

Tgt Ion: 45 Resp: 554

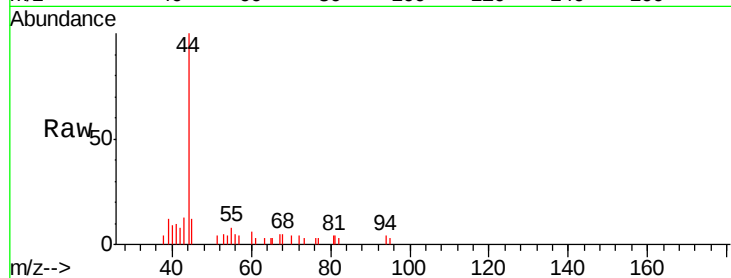
Ion Ratio Lower Upper

45 100

43 112.3 41.0 61.6#

87 0.0 14.6 22.0#

59 0.0 7.5 11.3#

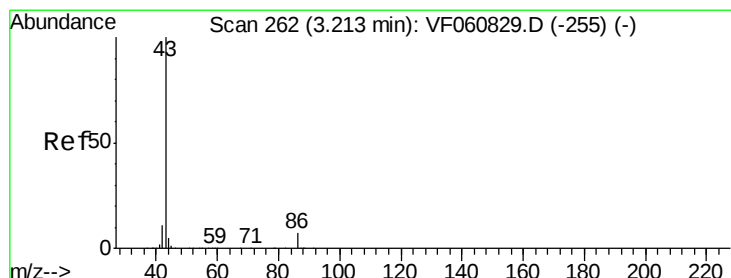
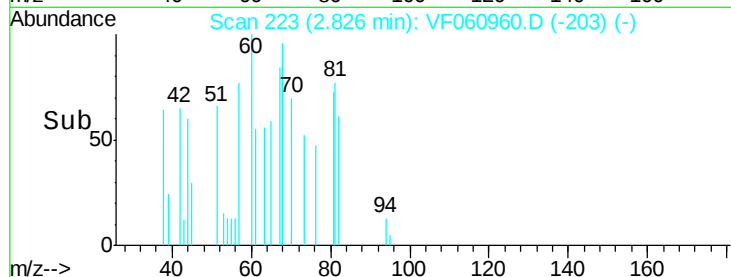
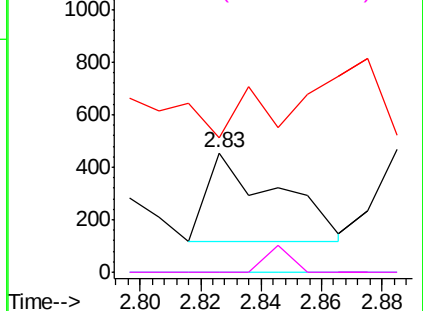


Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 62.634 ug/l

RT: 3.16 min Scan# 257

Delta R.T. -0.05 min

Lab File: VF060960.D

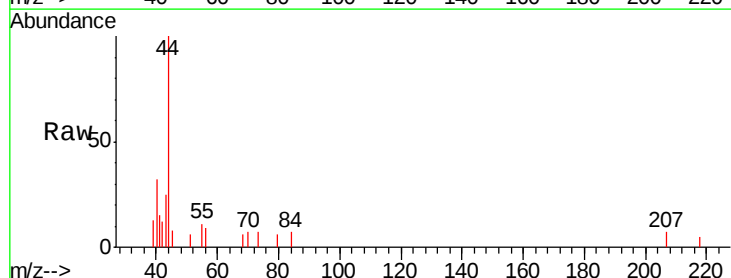
Acq: 10 Dec 2018 18:20

Tgt Ion: 43 Resp: 543

Ion Ratio Lower Upper

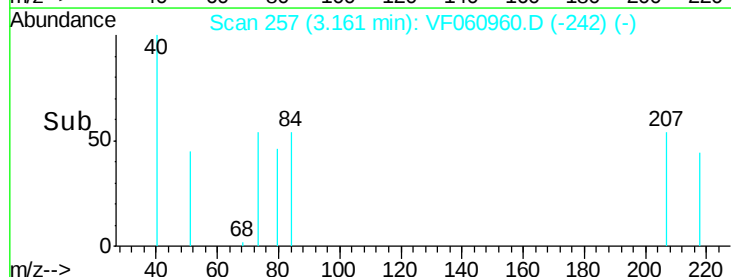
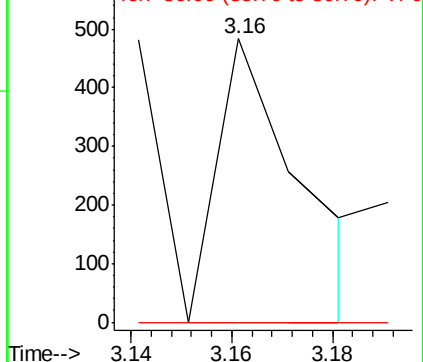
43 100

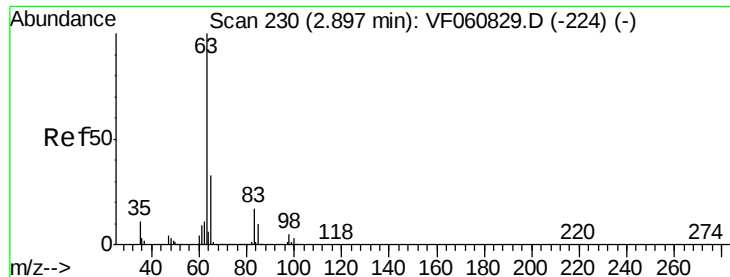
86 0.0 5.4 8.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#24

1,1-Dichloroethane

Concen: 18.079 ug/l

RT: 2.83 min Scan# 223

Delta R.T. -0.07 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampled :

SOILRE

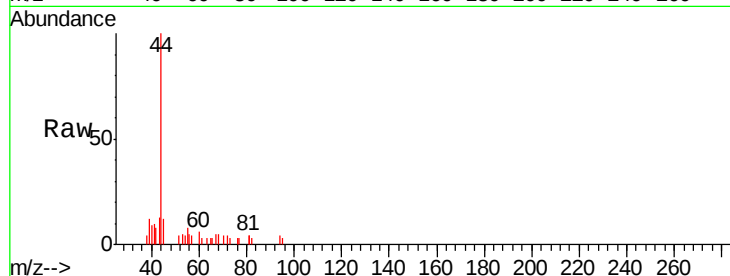
Tgt Ion: 63 Resp: 204

Ion Ratio Lower Upper

63 100

98 0.0 2.7 8.1#

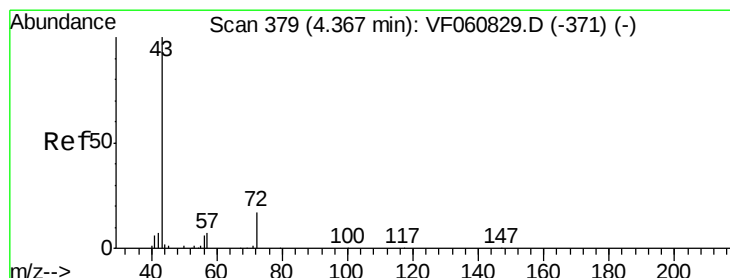
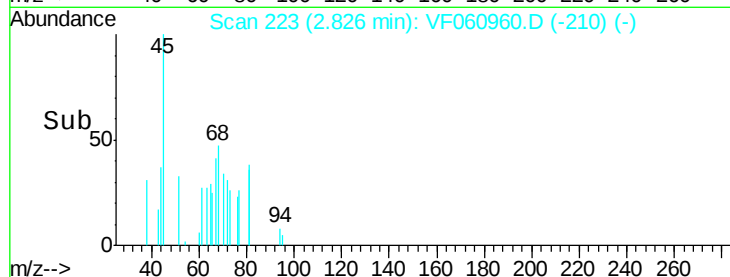
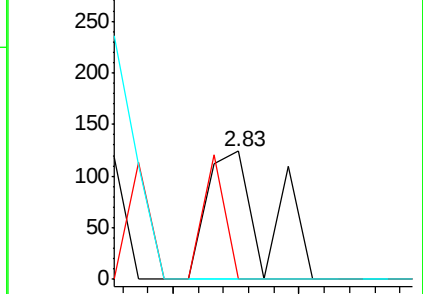
100 0.0 1.5 4.5#



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



#25

2-Butanone

Concen: 232.213 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.07 min

Lab File: VF060960.D

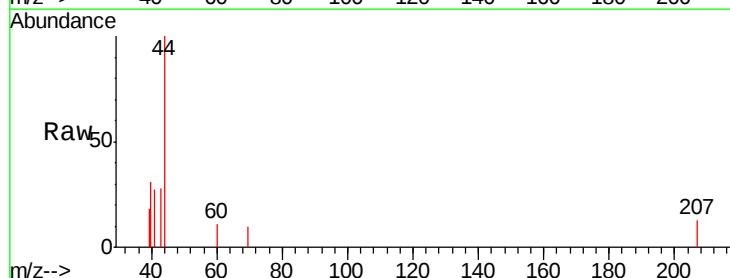
Acq: 10 Dec 2018 18:20

Tgt Ion: 43 Resp: 616

Ion Ratio Lower Upper

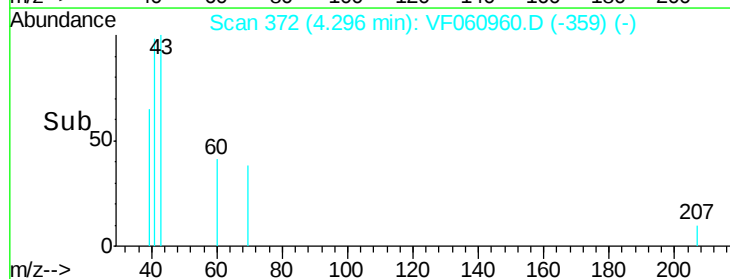
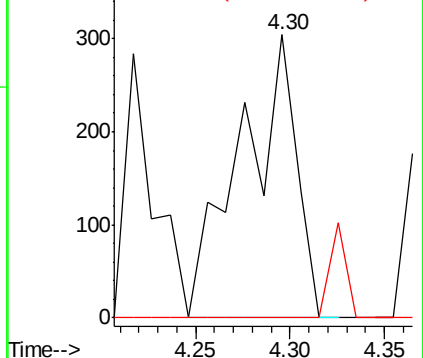
43 100

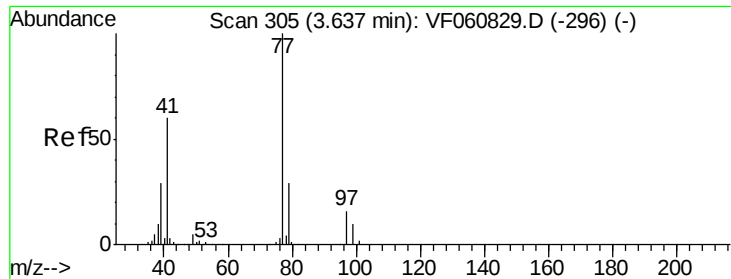
72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#26

2,2-Dichloropropane

Concen: 22.145 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.05 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleID :

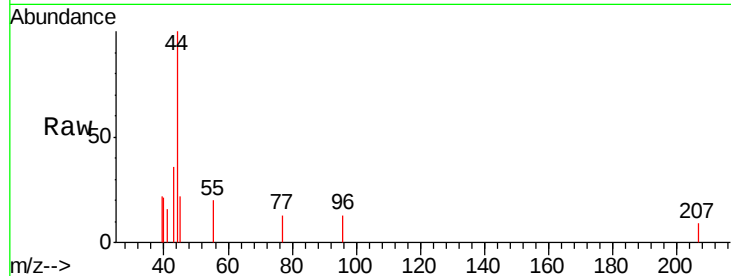
SOILRE

Tgt Ion: 77 Resp: 162

Ion Ratio Lower Upper

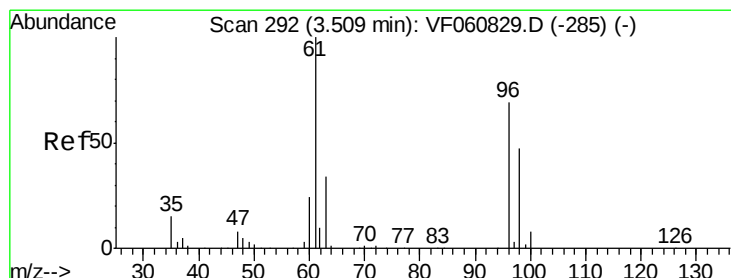
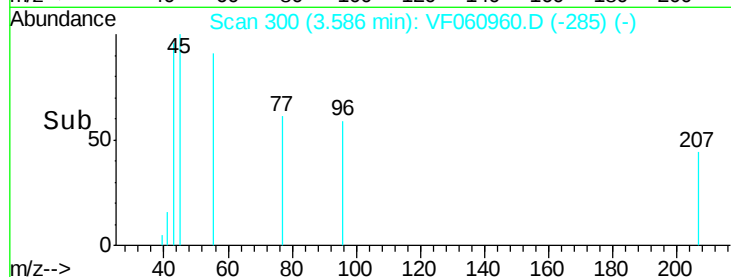
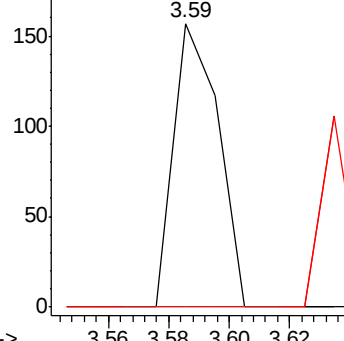
77 100

97 0.0 8.6 25.8#



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: 7.864 ug/l

RT: 3.48 min Scan# 289

Delta R.T. -0.03 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

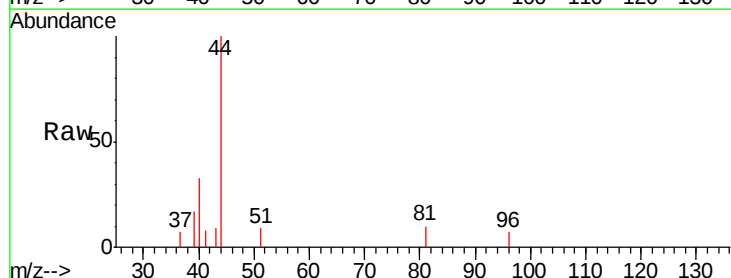
Tgt Ion: 96 Resp: 69

Ion Ratio Lower Upper

96 100

61 0.0 0.0 290.6

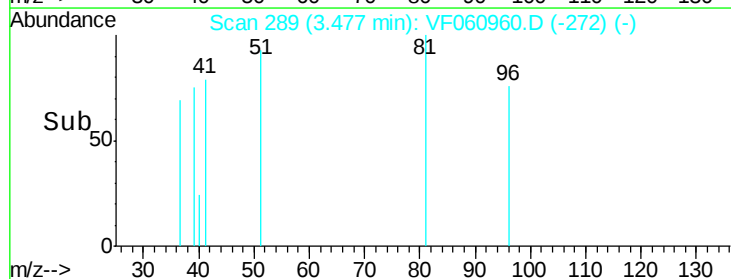
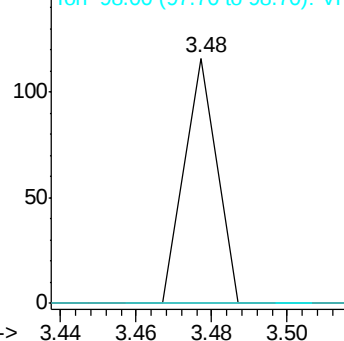
98 0.0 0.0 137.8

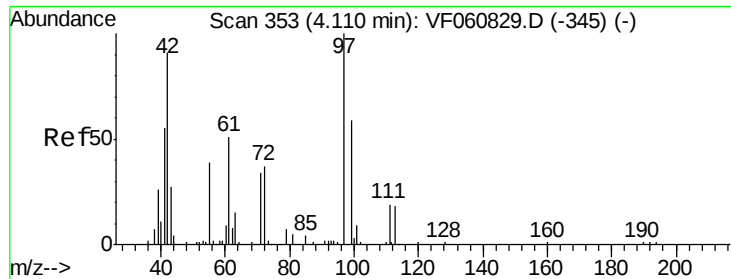


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#29

Tetrahydrofuran

Concen: 243.673 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleId :

SOILRE

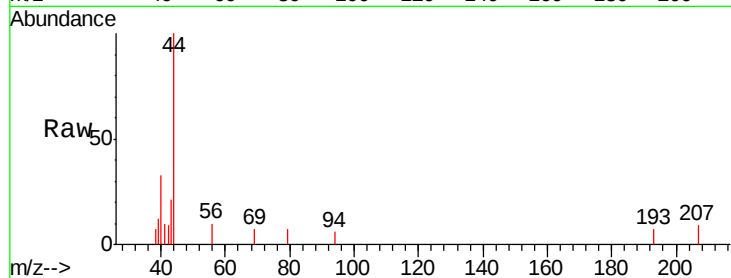
Tgt Ion: 42 Resp: 274

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

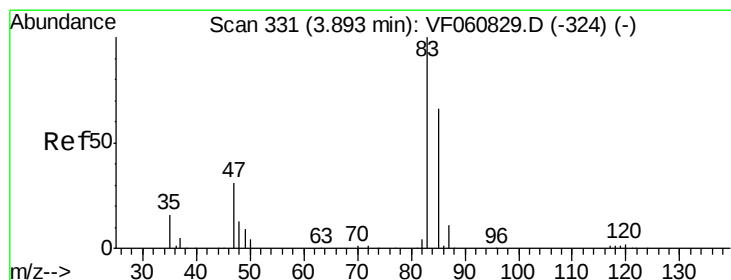
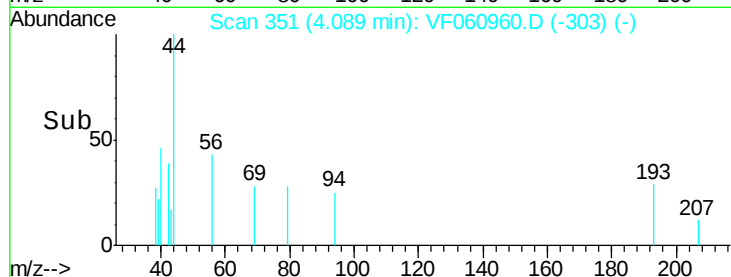
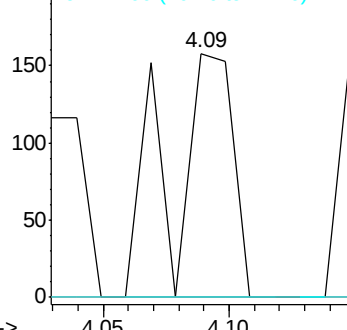
71 0.0 28.7 43.1#



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



#30

Chloroform

Concen: 6.852 ug/l

RT: 3.84 min Scan# 326

Delta R.T. -0.05 min

Lab File: VF060960.D

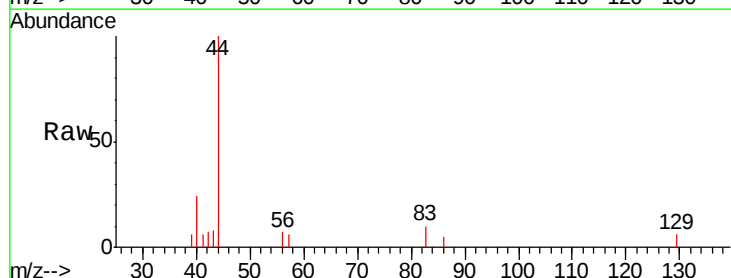
Acq: 10 Dec 2018 18:20

Tgt Ion: 83 Resp: 119

Ion Ratio Lower Upper

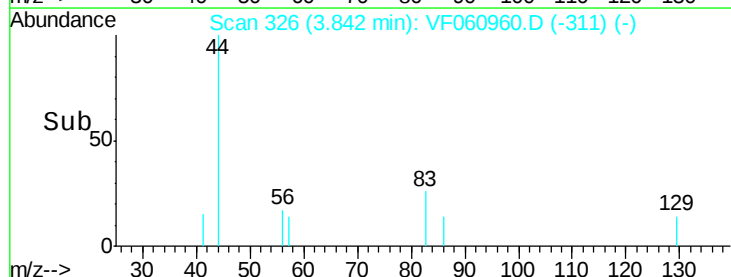
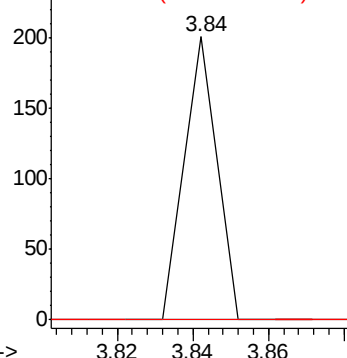
83 100

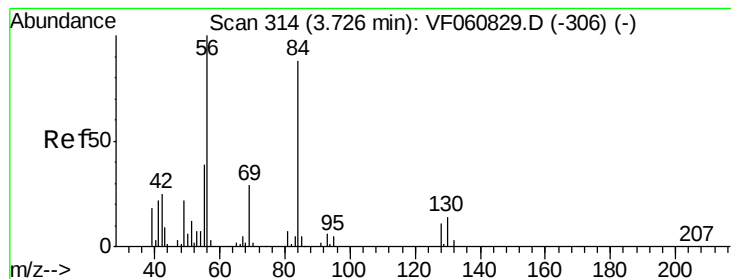
85 0.0 53.4 80.2#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 5.721 ug/l

RT: 3.71 min Scan# 313

Delta R.T. -0.01 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampled :

SOILRE

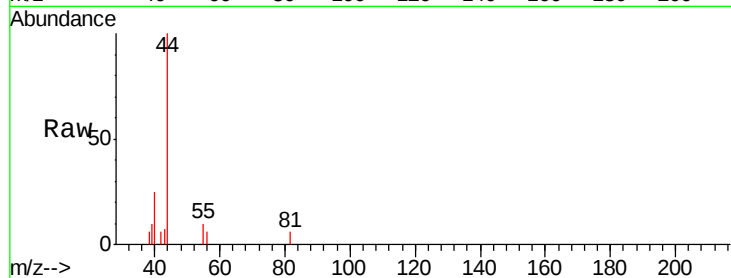
Tgt Ion: 56 Resp: 67

Ion Ratio Lower Upper

56 100

69 0.0 23.0 34.4#

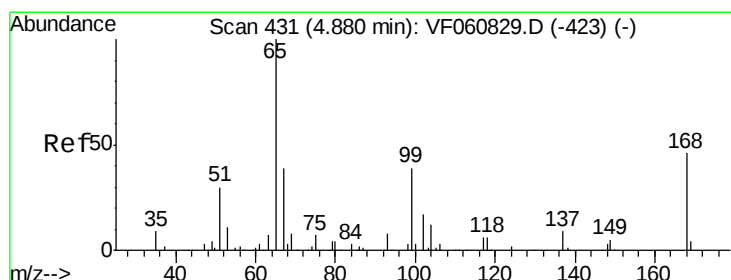
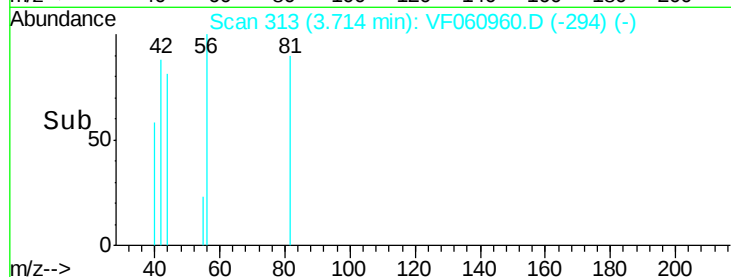
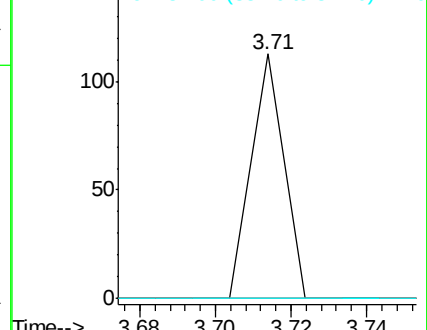
84 0.0 70.4 105.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 7.455 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060960.D

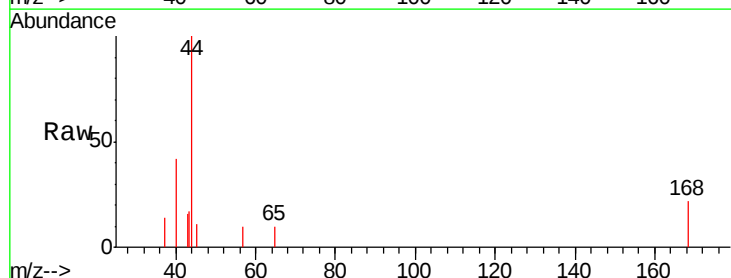
Acq: 10 Dec 2018 18:20

Tgt Ion: 65 Resp: 62

Ion Ratio Lower Upper

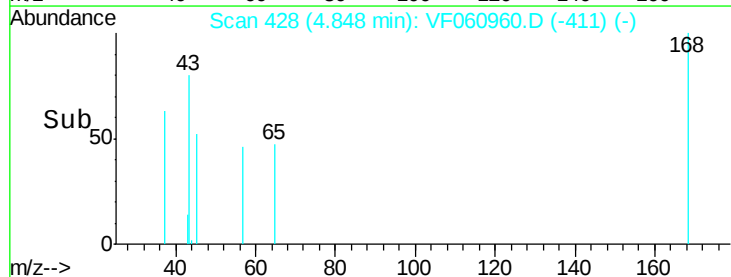
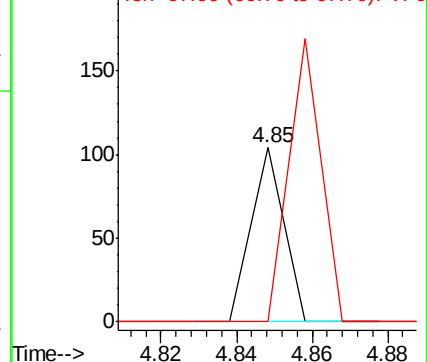
65 100

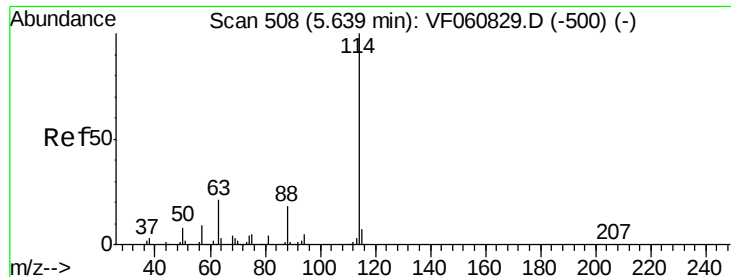
67 0.0 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.06 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

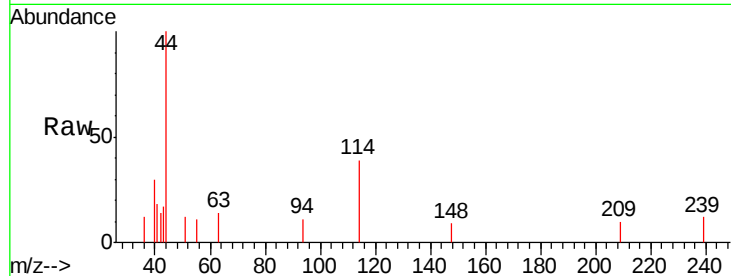
Instrument :

MSVOA\_F

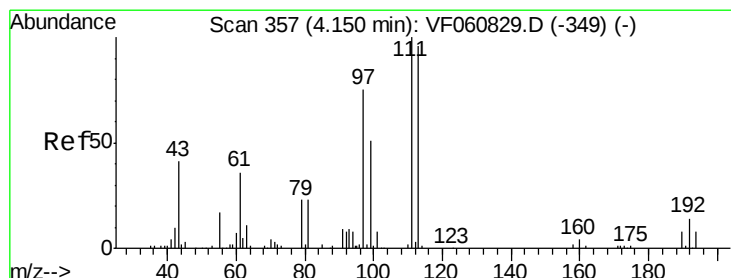
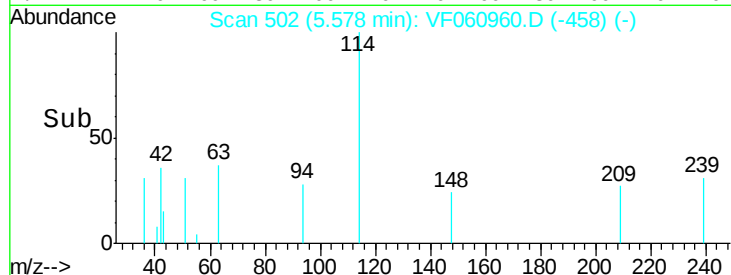
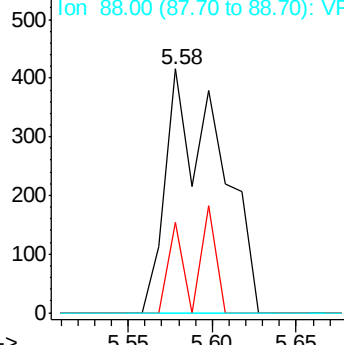
ClientSampled :

SOILRE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 114   | Resp: | 917   |
| Ion      | Ratio | Lower | Upper |
| 114      | 100   |       |       |
| 63       | 37.3  | 0.0   | 41.6  |
| 88       | 0.0   | 0.0   | 36.6  |



Abundance Ion 114.00 (113.70 to 114.70): V



#35

Dibromofluoromethane

Concen: 19.519 ug/l

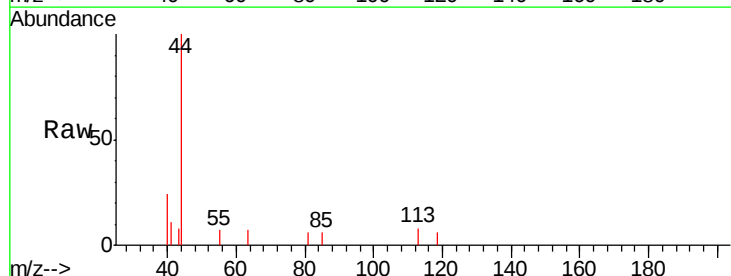
RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

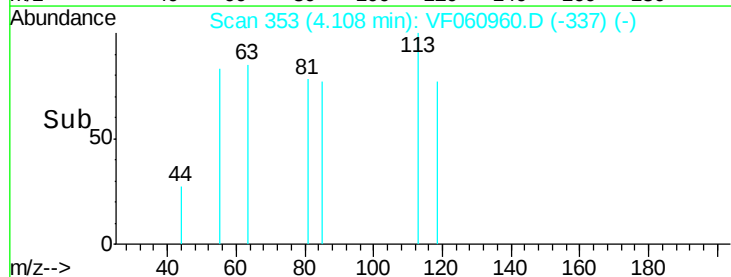
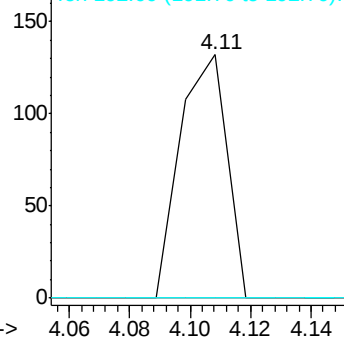
Lab File: VF060960.D

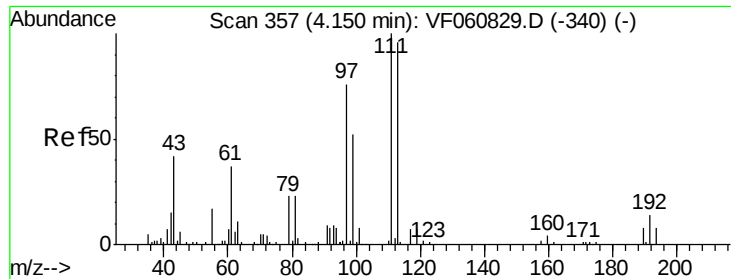
Acq: 10 Dec 2018 18:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 142    |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 0.0   | 83.0  | 124.6# |
| 192      | 0.0   | 12.3  | 18.5#  |



Abundance Ion 113.00 (112.70 to 113.70): V

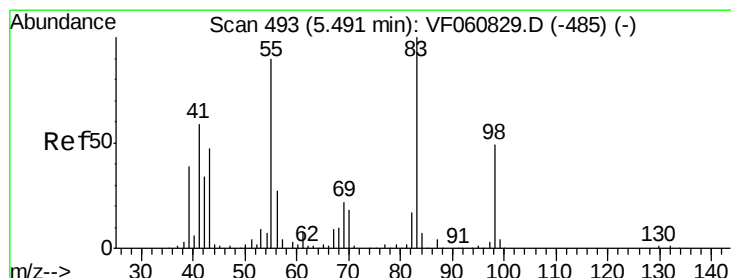
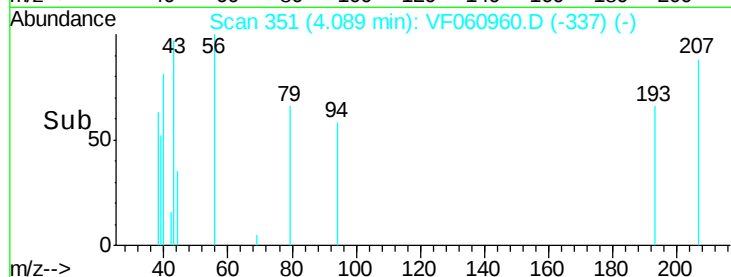
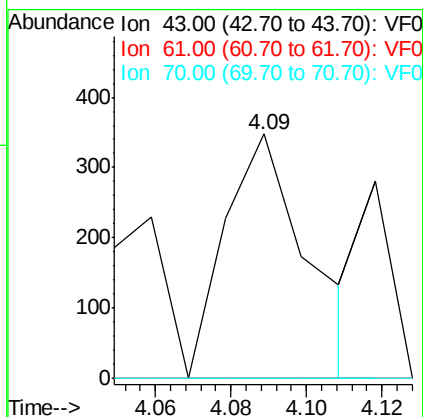
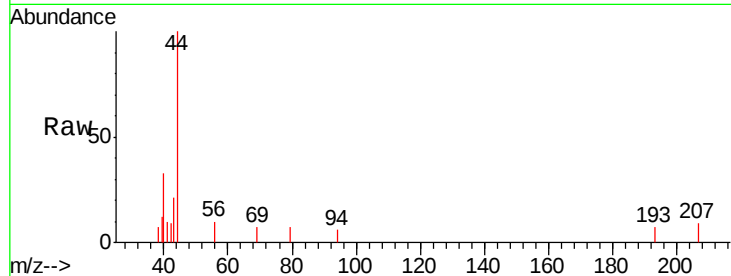




#37  
Ethyl Acetate  
Concen: 125.809 ug/l  
RT: 4.09 min Scan# 351  
Delta R.T. -0.06 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

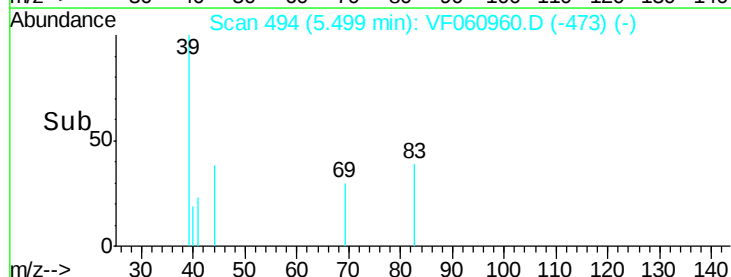
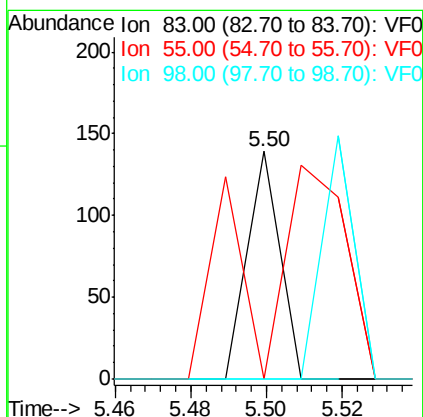
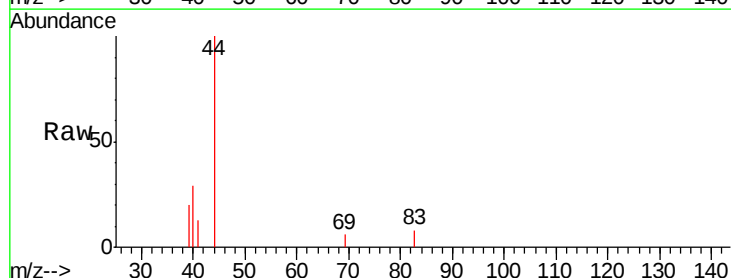
Instrument :  
MSVOA\_F  
ClientSampleId :  
SOILRE

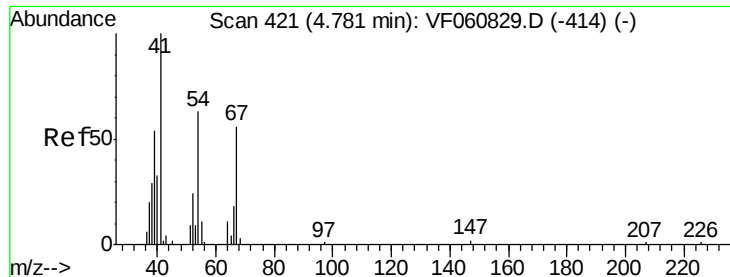
Tgt Ion: 43 Resp: 520  
Ion Ratio Lower Upper  
43 100  
61 0.0 68.6 103.0#  
70 0.0 9.0 13.4#



#39  
Methylcyclohexane  
Concen: 7.693 ug/l  
RT: 5.50 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

Tgt Ion: 83 Resp: 82  
Ion Ratio Lower Upper  
83 100  
55 0.0 72.1 108.1#  
98 0.0 39.1 58.7#





#41

Methacrylonitrile

Concen: 201.472 ug/l

RT: 4.74 min Scan# 417

Delta R.T. -0.04 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampled :

SOILRE

Tgt Ion: 41 Resp: 406

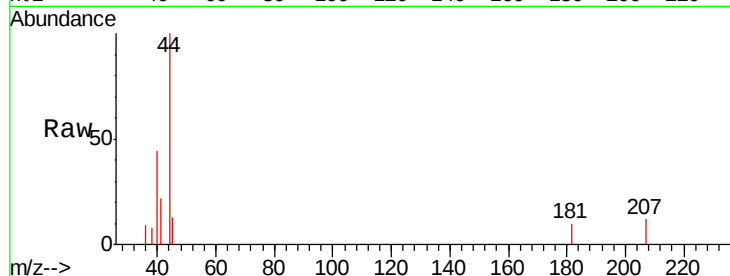
Ion Ratio Lower Upper

41 100

39 0.0 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

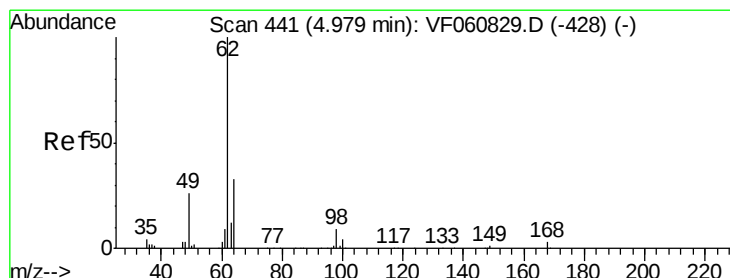
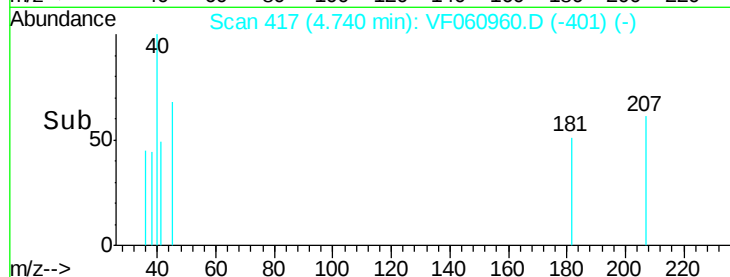
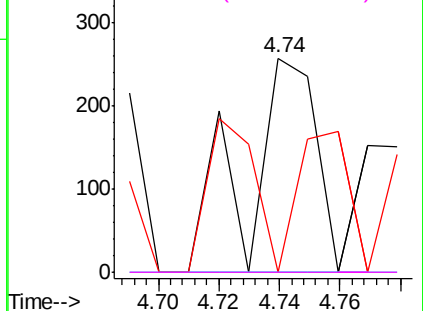


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#42

1,2-Dichloroethane

Concen: 10.118 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.11 min

Lab File: VF060960.D

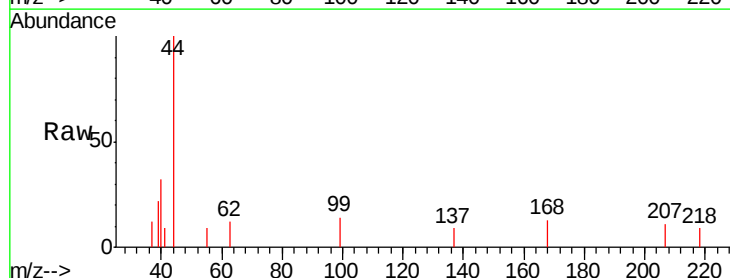
Acq: 10 Dec 2018 18:20

Tgt Ion: 62 Resp: 83

Ion Ratio Lower Upper

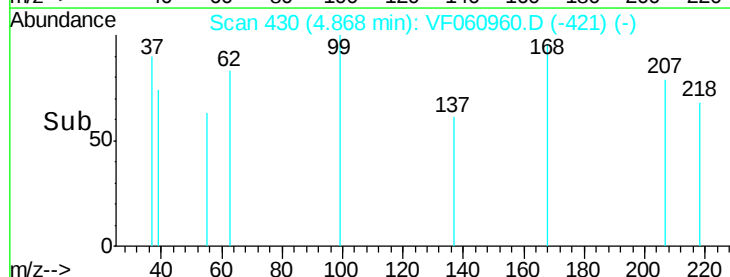
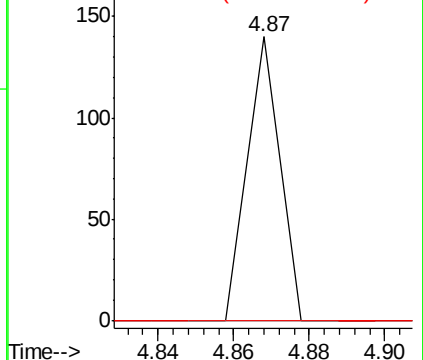
62 100

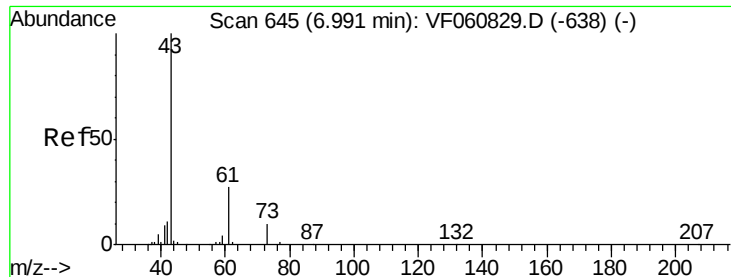
98 0.0 0.0 17.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 83.805 ug/l

RT: 6.93 min Scan# 639

Delta R.T. -0.06 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleId :

SOILRE

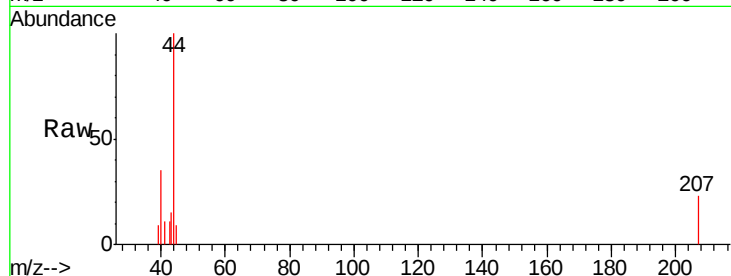
Tgt Ion: 43 Resp: 418

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

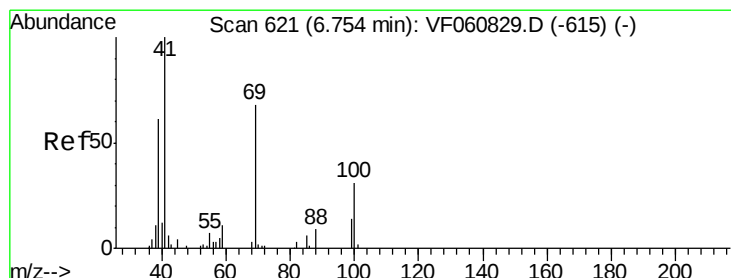
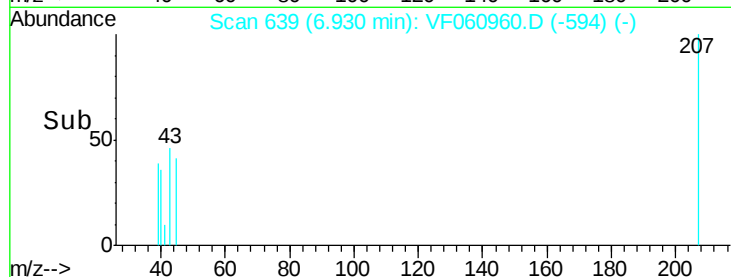
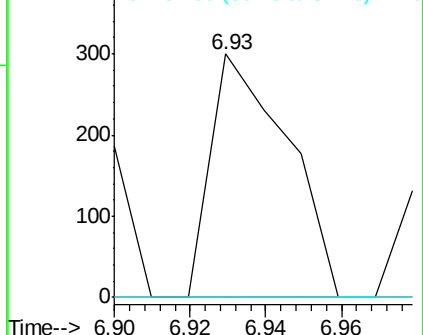
87 0.0 0.2 0.4#



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



#48

Methyl methacrylate

Concen: 282.521 ug/l

RT: 6.64 min Scan# 610

Delta R.T. -0.11 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

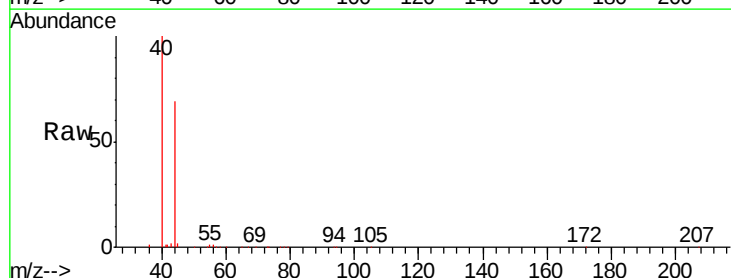
Tgt Ion: 41 Resp: 1057

Ion Ratio Lower Upper

41 100

69 26.4 53.9 80.9#

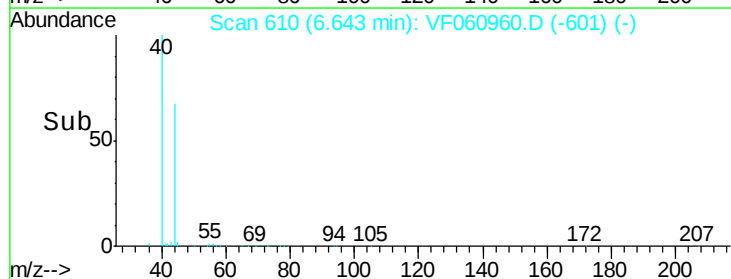
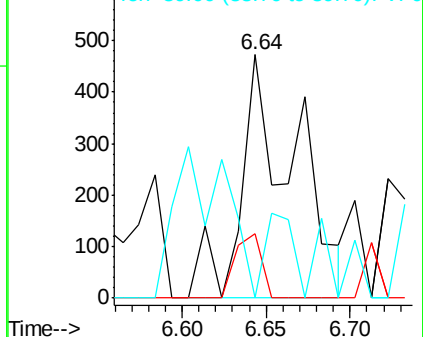
39 0.0 49.0 73.6#

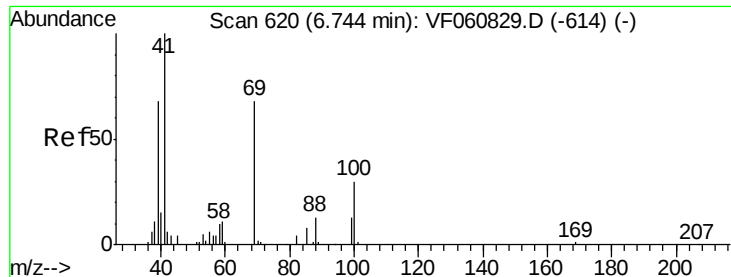


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

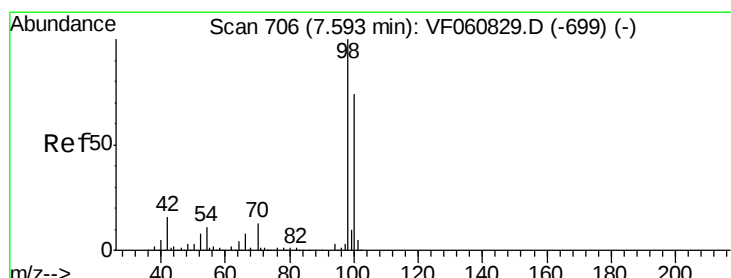
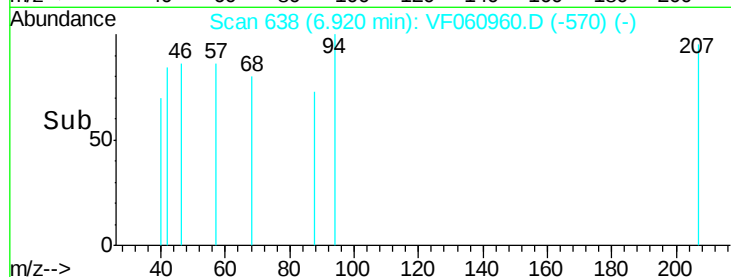
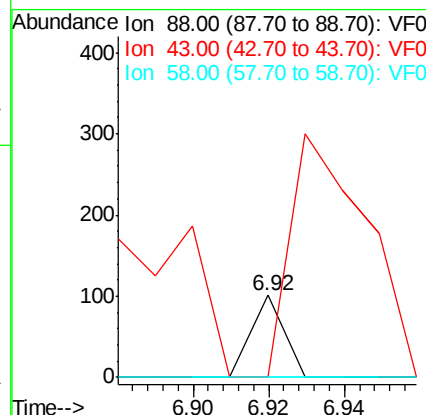
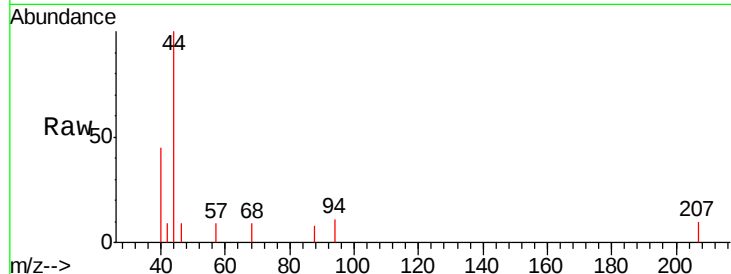




#49  
1,4-Dioxane  
Concen: 2191.260 ug/l  
RT: 6.92 min Scan# 638  
Delta R.T. 0.18 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

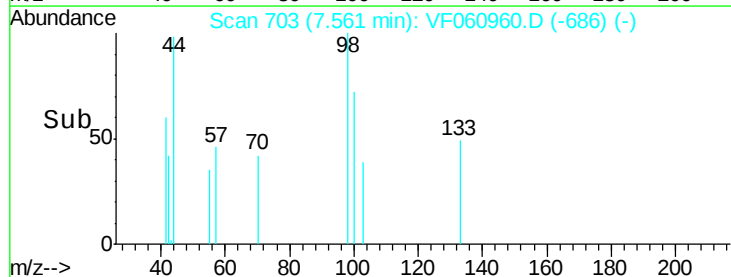
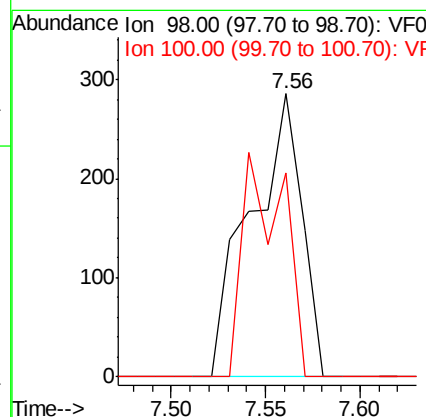
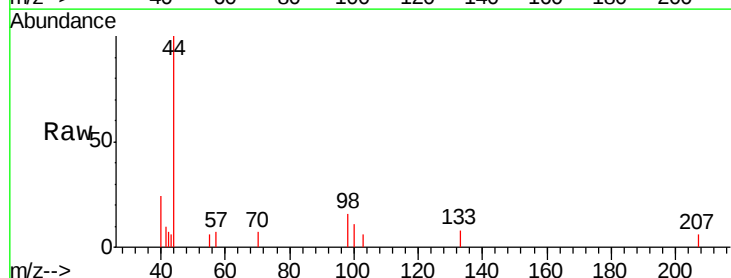
Instrument :  
MSVOA\_F  
ClientSampleId :  
SOILRE

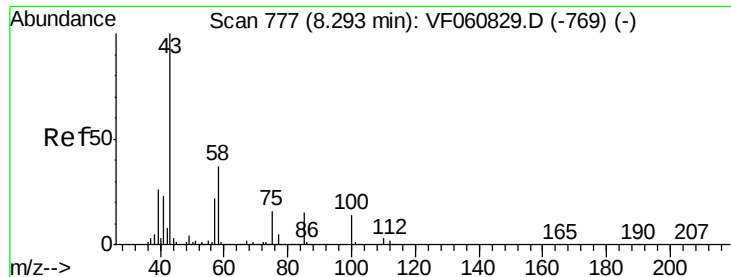
Tgt Ion: 88 Resp: 60  
Ion Ratio Lower Upper  
88 100  
43 0.0 42.0 63.0#  
58 0.0 61.8 92.8#



#50  
Toluene-d8  
Concen: 25.059 ug/l  
RT: 7.56 min Scan# 703  
Delta R.T. -0.03 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

Tgt Ion: 98 Resp: 537  
Ion Ratio Lower Upper  
98 100  
100 72.0 59.3 88.9

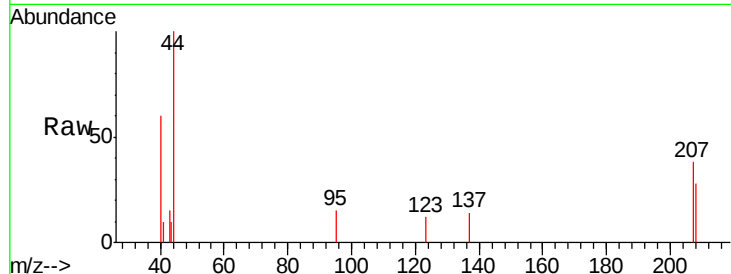




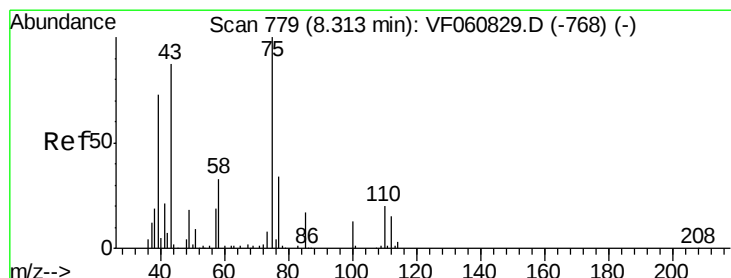
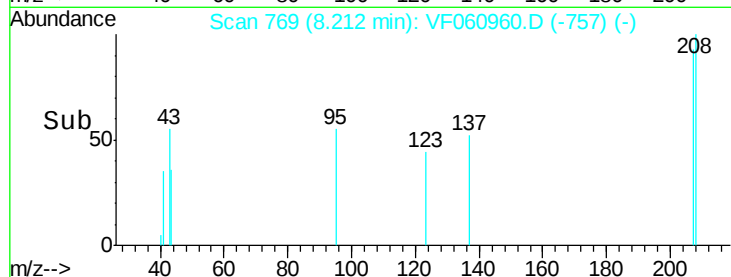
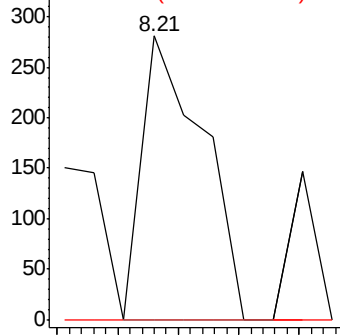
#51  
4-Methyl-2-Pentanone  
Concen: 103.371 ug/l  
RT: 8.21 min Scan# 769  
Delta R.T. -0.08 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

Instrument :  
MSVOA\_F  
ClientSampleId :  
SOILRE

Tgt Ion: 43 Resp: 394  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.7 44.5#

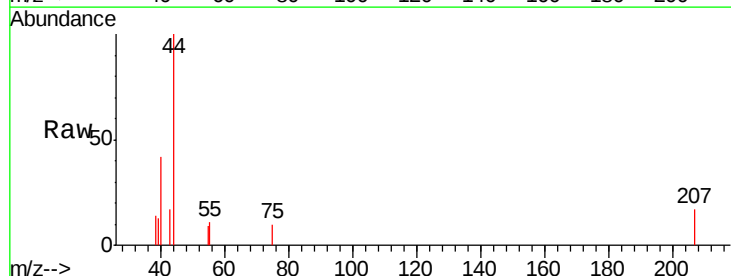


Abundance Ion 43.00 (42.70 to 43.70): VF0  
Ion 58.00 (57.70 to 58.70): VF0

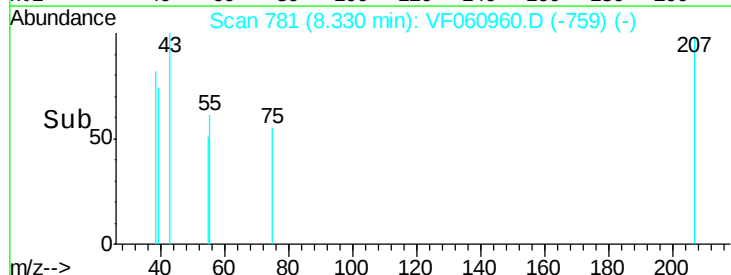
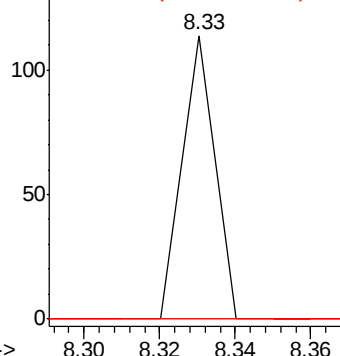


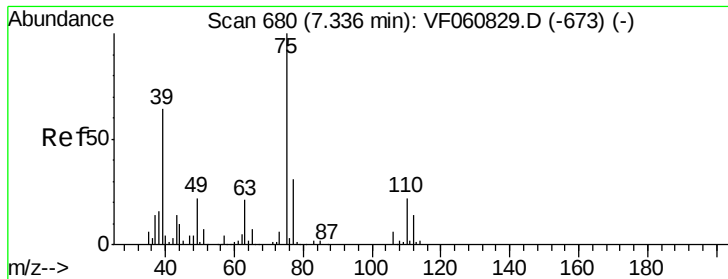
#53  
t-1,3-Dichloropropene  
Concen: 7.834 ug/l  
RT: 8.33 min Scan# 781  
Delta R.T. 0.02 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

Tgt Ion: 75 Resp: 67  
Ion Ratio Lower Upper  
75 100  
77 0.0 27.4 41.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0  
Ion 77.00 (76.70 to 77.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 5.856 ug/l

RT: 7.25 min Scan# 671

Delta R.T. -0.09 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Instrument :

MSVOA\_F

ClientSampleId :

SOILRE

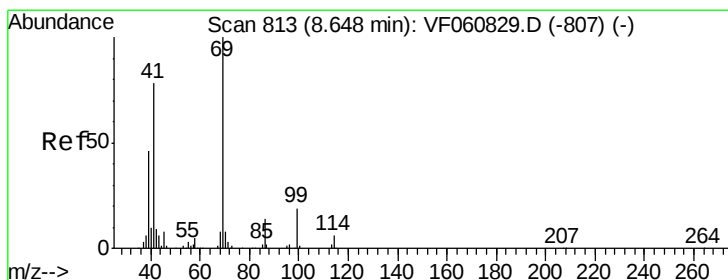
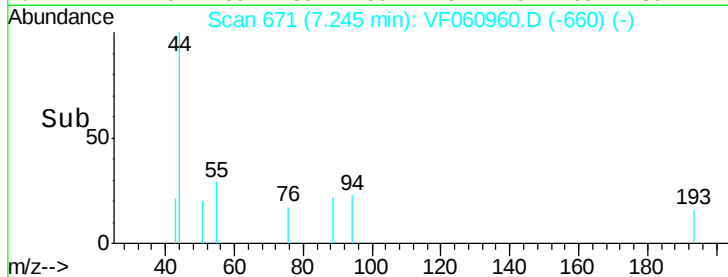
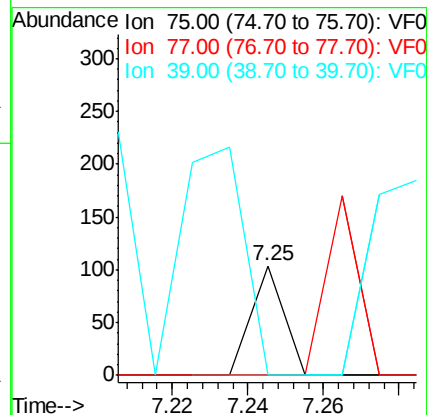
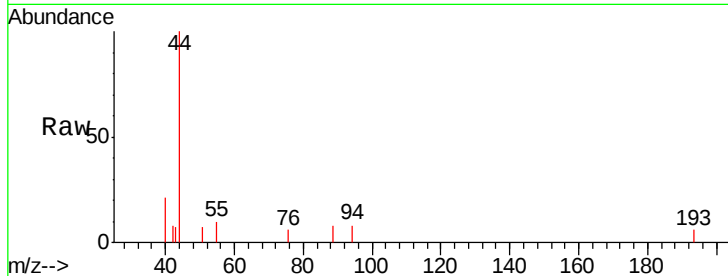
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 0.0 51.1 76.7#



#56

Ethyl methacrylate

Concen: 14.093 ug/l

RT: 8.71 min Scan# 819

Delta R.T. 0.06 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

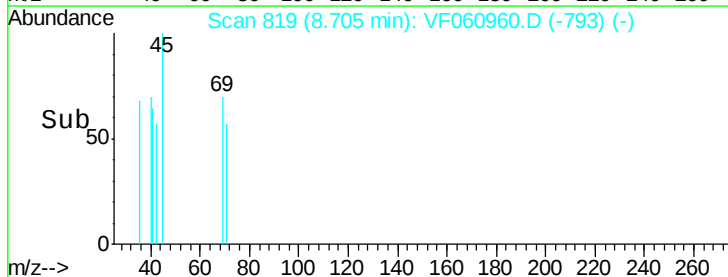
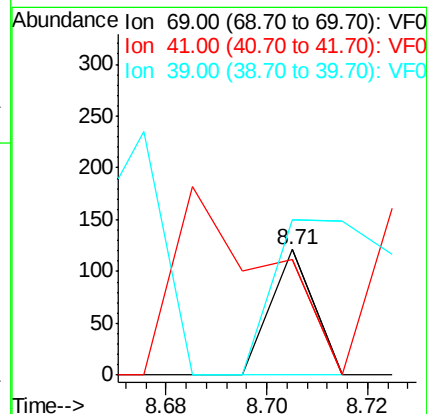
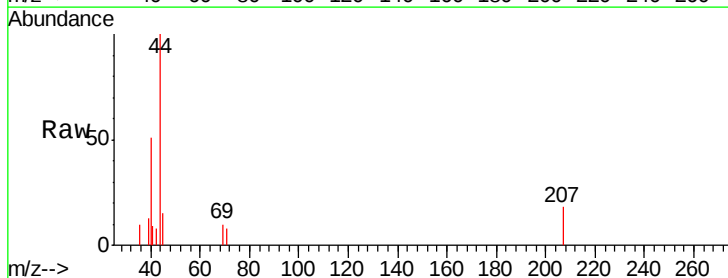
Tgt Ion: 69 Resp: 72

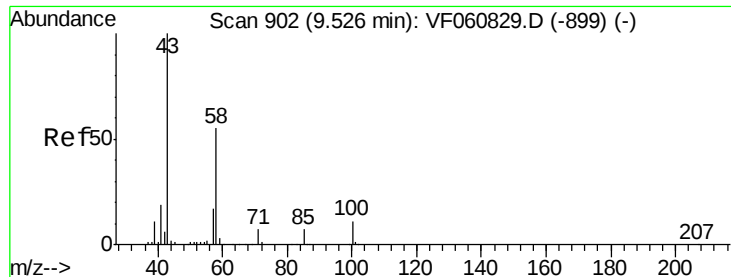
Ion Ratio Lower Upper

69 100

41 92.6 62.6 94.0

39 124.0 37.8 56.6#

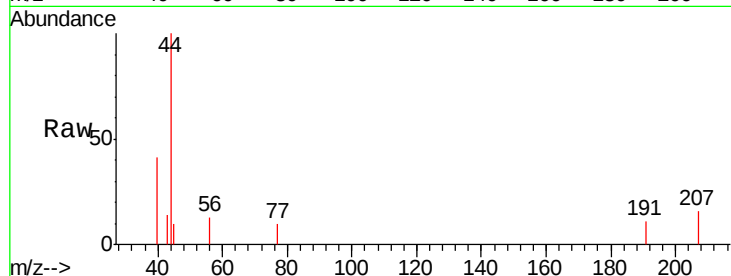




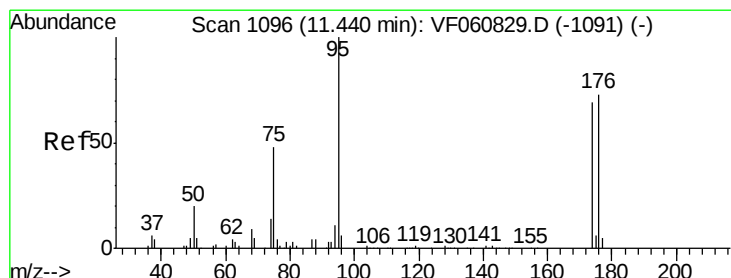
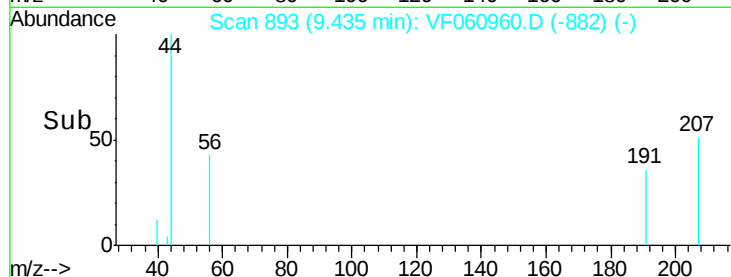
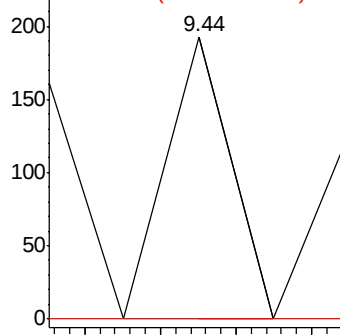
#59  
2-Hexanone  
Concen: 42.633 ug/l  
RT: 9.44 min Scan# 893  
Delta R.T. -0.09 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

Instrument :  
MSVOA\_F  
ClientSampleId :  
SOILRE

Tgt Ion: 43 Resp: 114  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.6 76.6#

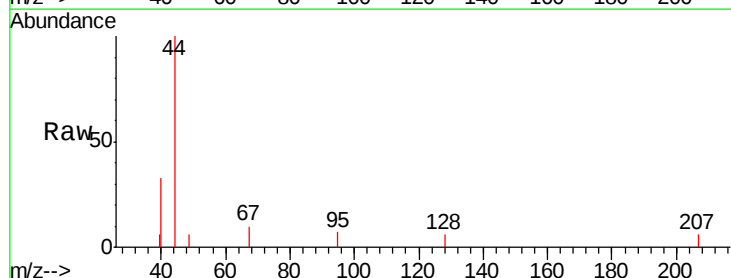


Abundance Ion 43.00 (42.70 to 43.70): VF0  
Ion 58.00 (57.70 to 58.70): VF0

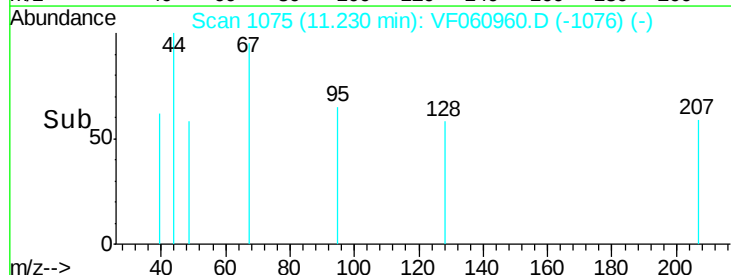
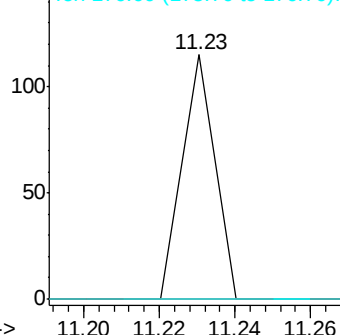


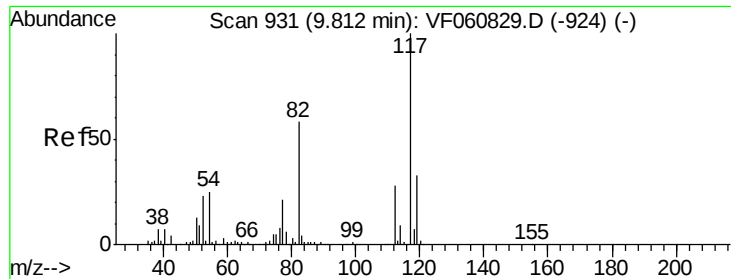
#62  
4-Bromofluorobenzene  
Concen: 6.982 ug/l  
RT: 11.23 min Scan# 1075  
Delta R.T. -0.21 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

Tgt Ion: 95 Resp: 68  
Ion Ratio Lower Upper  
95 100  
174 0.0 0.0 138.2  
176 0.0 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0  
Ion 174.00 (173.70 to 174.70): V  
Ion 176.00 (175.70 to 176.70): V

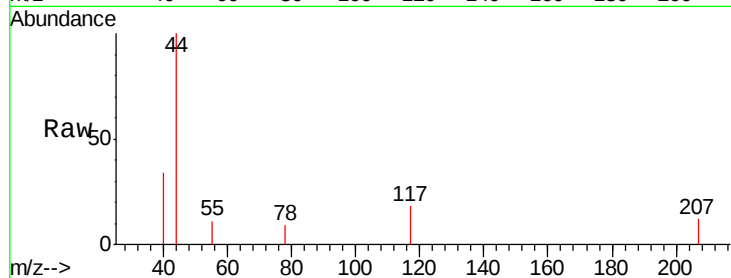




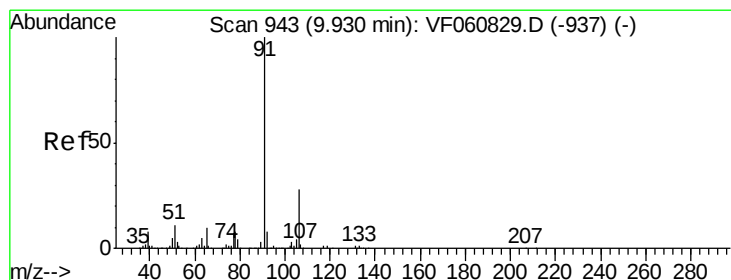
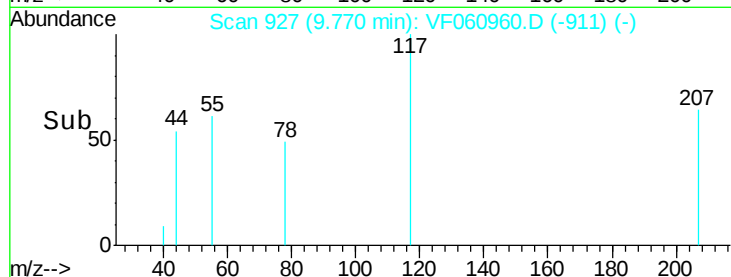
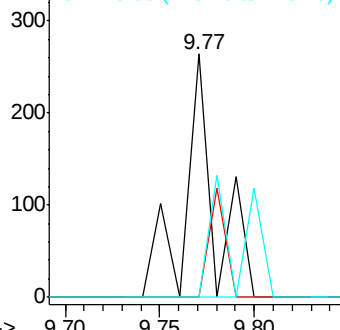
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.77 min Scan# 927  
Delta R.T. -0.04 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

Instrument :  
MSVOA\_F  
ClientSampleId :  
SOILRE

Tgt Ion: 117 Resp: 294  
Ion Ratio Lower Upper  
117 100  
82 0.0 46.6 69.8#  
119 0.0 26.4 39.6#

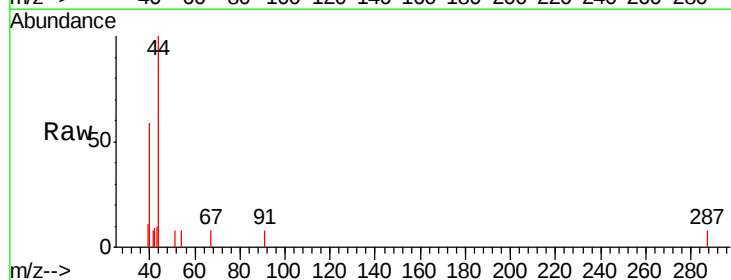


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V

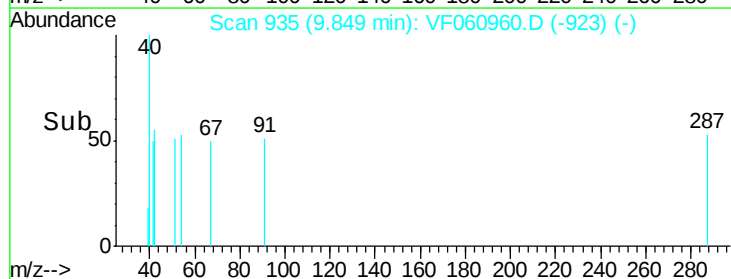
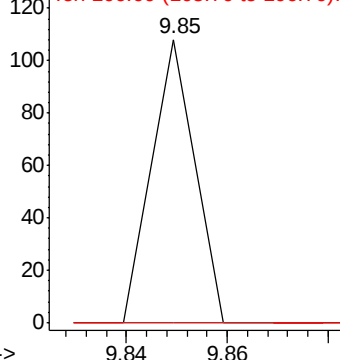


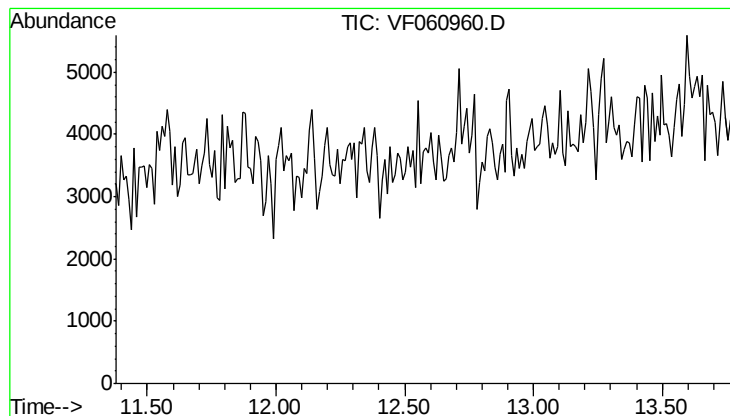
#67  
Ethyl Benzene  
Concen: 6.011 ug/l  
RT: 9.85 min Scan# 935  
Delta R.T. -0.08 min  
Lab File: VF060960.D  
Acq: 10 Dec 2018 18:20

Tgt Ion: 91 Resp: 64  
Ion Ratio Lower Upper  
91 100  
106 0.0 22.2 33.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0  
Ion 106.00 (105.70 to 106.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 12.57 min

Lab File: VF060960.D

Acq: 10 Dec 2018 18:20

Tgt Ion: 152

Sig Exp Ratio

152 100

115 60.3

150 163.8

Instrument :

MSVOA\_F

ClientSampleId :

SOILRE

