

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\  
 Data File : VF059396.D  
 Acq On : 2 Jul 2018 19:28  
 Operator : VA/AP  
 Sample : J3802-02RE  
 Misc : 7.60g/5mL/MSVOA-F/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 CF-2(15.0)RE

Quant Time: Jul 03 01:10:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F062518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 26 08:45:17 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.02  | 168  | 180828   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 400654   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.90  | 117  | 246652   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 118356   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.00  | 65   | 149378   | 63.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 127.88% |          |
| 35) Dibromofluoromethane    | 4.28  | 113  | 118660   | 40.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.06%  |          |
| 50) Toluene-d8              | 7.70  | 98   | 295406   | 40.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.52%  |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 169308   | 41.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 82.82%  |          |

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|-------|------|----------|---------|-------|--------|
| 3) Chloromethane              | 1.10  | 50   | 1692     | 1.52    | ug/l  | # 87   |
| 5) Bromomethane               | 1.36  | 94   | 1288     | Below   | Cal   | # 52   |
| 11) Tert butyl alcohol        | 2.68  | 59   | 1175     | 7.55    | ug/l  | # 1    |
| 13) Acrolein                  | 2.12  | 56   | 5468     | 58.96   | ug/l  | # 1    |
| 14) Allyl chloride            | 2.09  | 41   | 72624    | 36.29   | ug/l  | # 51   |
| 15) Acrylonitrile             | 3.08  | 53   | 40346    | 147.31  | ug/l  | # 49   |
| 16) Acetone                   | 2.33  | 43   | 43925    | 67.85   | ug/l  | # 97   |
| 17) Carbon Disulfide          | 1.87  | 76   | 18167    | 7.24    | ug/l  | # 75   |
| 18) Methyl Acetate            | 2.48  | 43   | 10459    | 8.96    | ug/l  | # 61   |
| 20) Methylene Chloride        | 2.31  | 84   | 4066     | Below   | Cal   | # 93   |
| 23) Vinyl Acetate             | 3.27  | 43   | 15293    | 5.42    | ug/l  | # 90   |
| 25) 2-Butanone                | 4.53  | 43   | 133842   | 188.70  | ug/l  | # 68   |
| 28) Bromochloromethane        | 3.85  | 49   | 67       | Below   | Cal   | # 6    |
| 29) Tetrahydrofuran           | 4.09  | 42   | 310646   | 1062.59 | ug/l  | # 1    |
| 30) Chloroform                | 4.04  | 83   | 4195     | 1.05    | ug/l  | # 1    |
| 31) Cyclohexane               | 3.90  | 56   | 17449    | 9.69    | ug/l  | # 37   |
| 39) Methylcyclohexane         | 5.70  | 83   | 37058    | 11.95   | ug/l  | # 26   |
| 40) Benzene                   | 4.74  | 78   | 17623    | 2.27    | ug/l  | # 1    |
| 43) Isopropyl Acetate         | 6.96  | 43   | 486074   | 166.73  | ug/l  | # 52   |
| 45) 1,2-Dichloropropane       | 6.46  | 63   | 31705    | 14.30   | ug/l  | # 1    |
| 47) Bromodichloromethane      | 6.47  | 83   | 88077    | 18.91   | ug/l  | # 33   |
| 48) Methyl methacrylate       | 6.79  | 41   | 158024   | 80.87   | ug/l  | # 46   |
| 49) 1,4-Dioxane               | 6.39  | 88   | 75       | Below   | Cal   | # 1    |
| 51) 4-Methyl-2-Pentanone      | 8.41  | 43   | 335173   | 155.18  | ug/l  | # 46   |
| 55) 1,1,2-Trichloroethane     | 8.55  | 97   | 38508    | 17.08   | ug/l  | # 69   |
| 56) Ethyl methacrylate        | 8.77  | 69   | 212611   | 76.12   | ug/l  | # 89   |
| 58) 2-Chloroethyl Vinyl ether | 7.81  | 63   | 494      | 2.36    | ug/l  | # 100  |
| 59) 2-Hexanone                | 9.64  | 43   | 366458   | 224.09  | ug/l  | # 55   |
| 74) N-amyl acetate            | 11.48 | 43   | 476627   | 190.49  | ug/l  | # 67   |
| 75) 1,1,2,2-Tetrachloroethane | 11.76 | 83   | 6488     | 3.73    | ug/l  | # 1    |
| 79) 2-Chlorotoluene           | 11.81 | 91   | 5963     | 1.18    | ug/l  | # 65   |
| 80) 1,3,5-Trimethylbenzene    | 11.89 | 105  | 6612     | 1.09    | ug/l  | # 91   |
| 85) sec-Butylbenzene          | 12.38 | 105  | 18242    | 2.28    | ug/l  | # 64   |
| 86) p-Isopropyltoluene        | 12.53 | 119  | 17105    | 2.55    | ug/l  | # 81   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\  
Data File : VF059396.D  
Acq On : 2 Jul 2018 19:28  
Operator : VA/AP  
Sample : J3802-02RE  
Misc : 7.60µ/5mL/MSVOA-F/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
CF-2(15.0)RE

Quant Time: Jul 03 01:10:45 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F062518S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 26 08:45:17 2018  
Response via : Initial Calibration

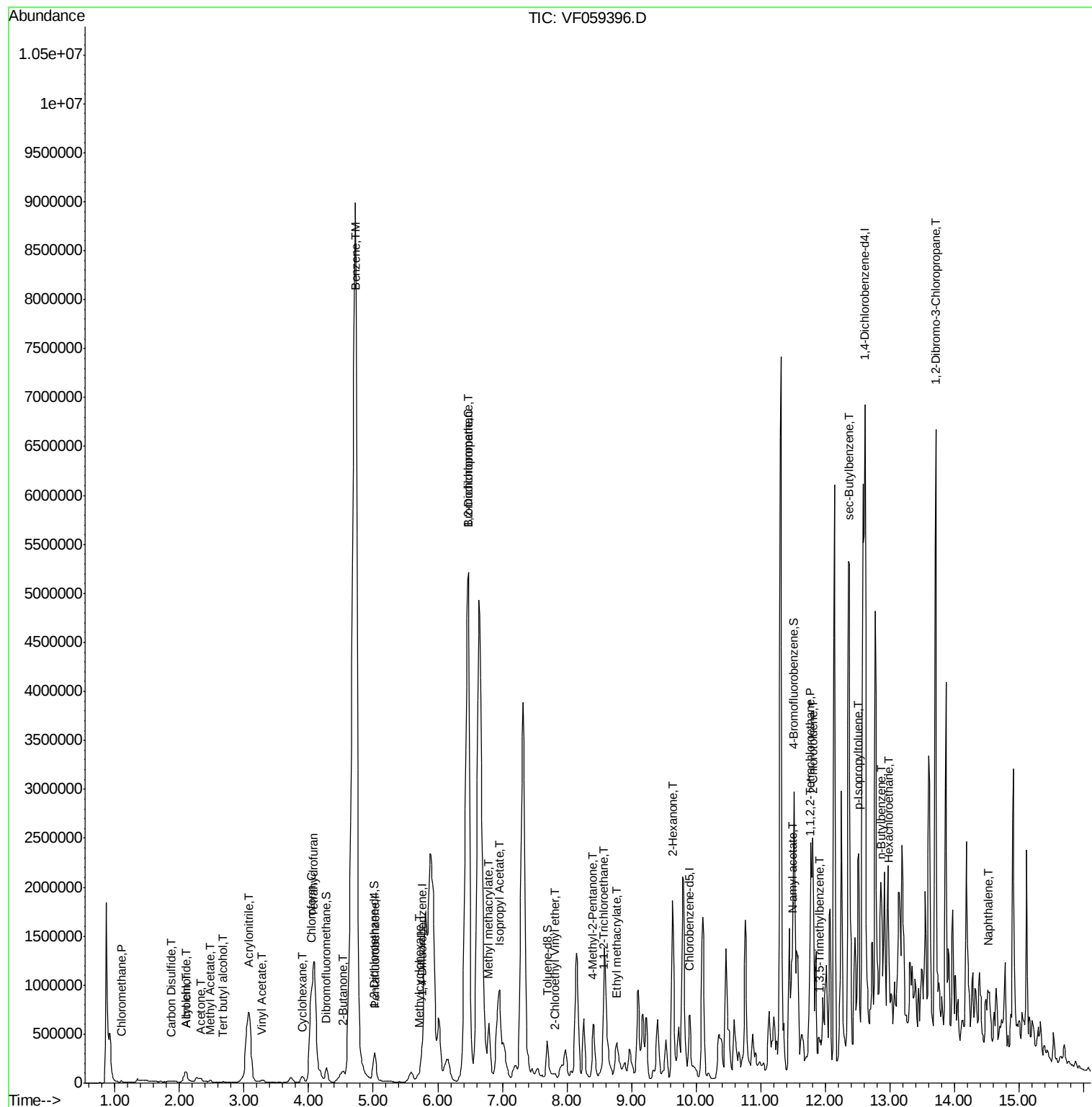
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 87) 1,3-Dichlorobenzene        | 12.55 | 146  | 234      | Below Cal | #      | 1        |
| 89) n-Butylbenzene             | 12.88 | 91   | 79353    | 11.63     | ug/l # | 59       |
| 90) Hexachloroethane           | 12.99 | 117  | 3893     | 2.32      | ug/l # | 10       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.71 | 75   | 31630    | 81.94     | ug/l # | 1        |
| 95) Naphthalene                | 14.52 | 128  | 9594     | 1.79      | ug/l # | 1        |

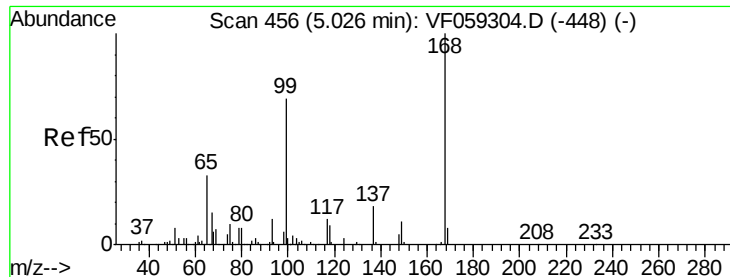
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF070218\  
Data File : VF059396.D  
Acq On : 2 Jul 2018 19:28  
Operator : VA/AP  
Sample : J3802-02RE  
Misc : 7.60q/5mL/MSVOA-F/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
CF-2(15.0)RE

Quant Time: Jul 03 01:10:45 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F062518S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 26 08:45:17 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

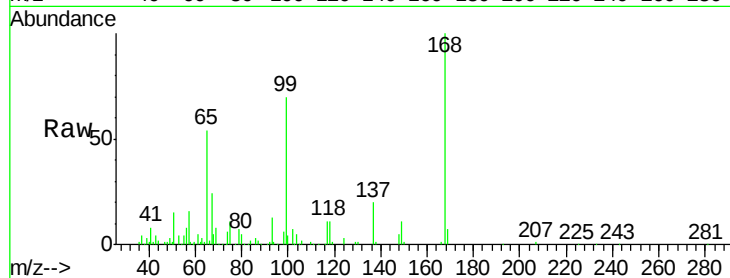
CF-2(15.0)RE

Tot Ion:168 Resp: 180828

Ion Ratio Lower Upper

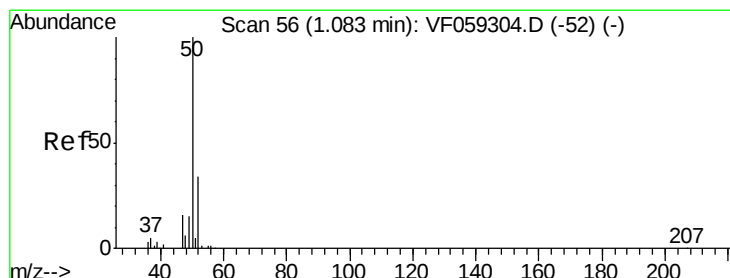
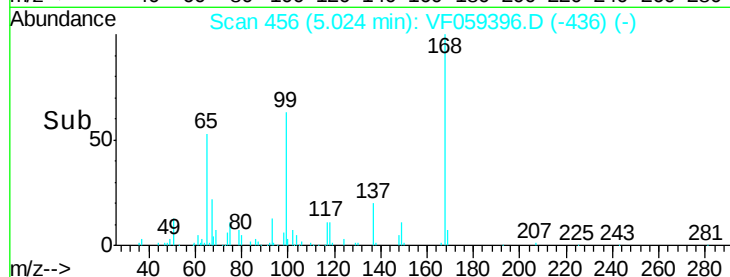
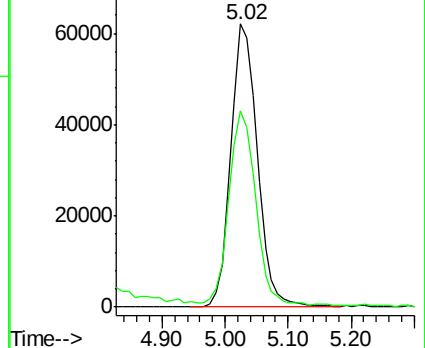
168 100

99 69.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.52 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059396.D

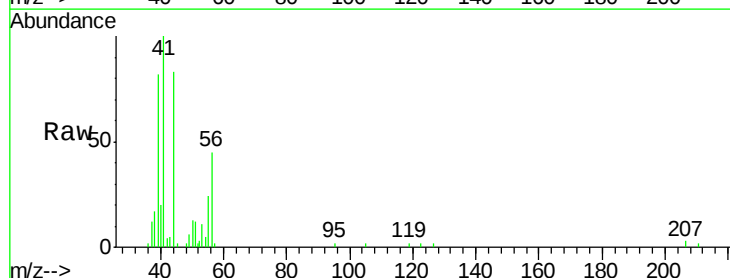
Acq: 2 Jul 2018 19:28

Tgt Ion: 50 Resp: 1692

Ion Ratio Lower Upper

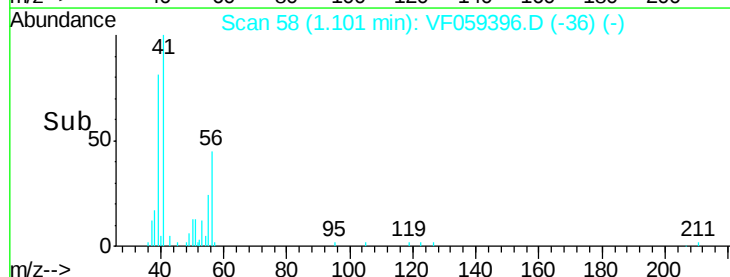
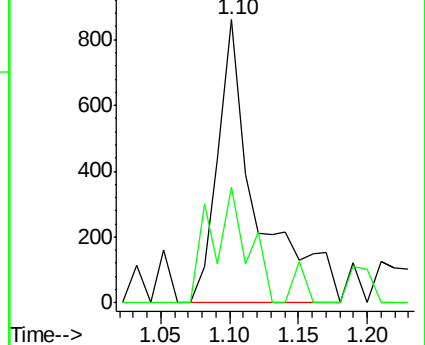
50 100

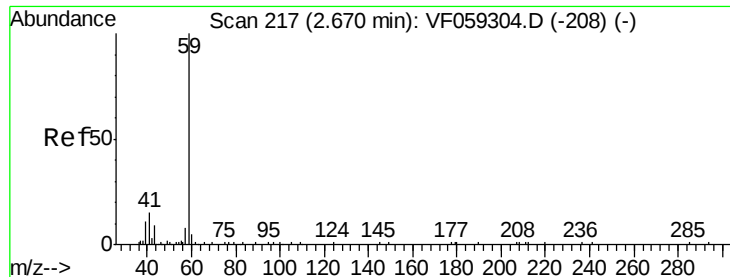
52 41.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#11

Tert butyl alcohol

Concen: 7.55 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.01 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

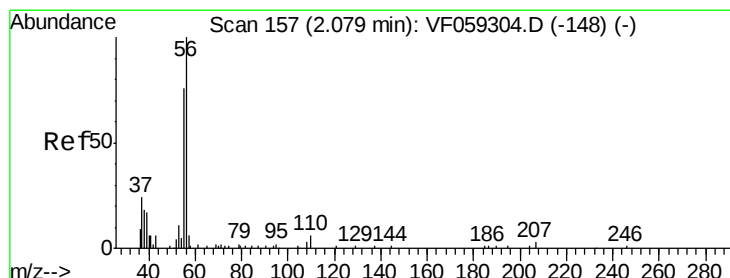
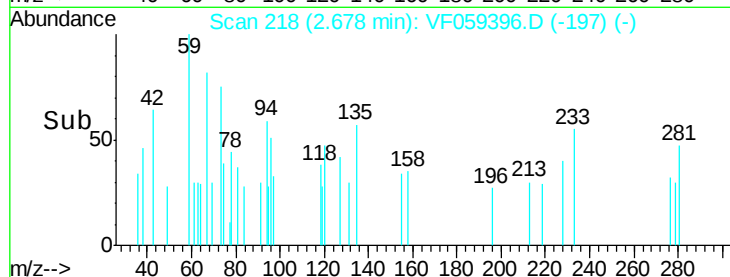
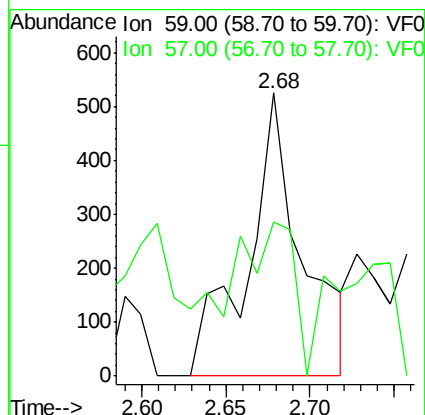
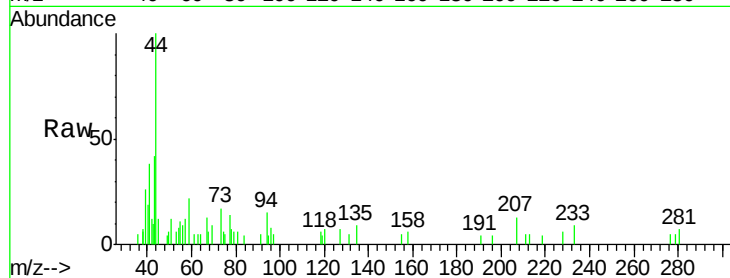
CF-2(15.0)RE

Tot Ion: 59 Resp: 1175

Ion Ratio Lower Upper

59 100

57 54.5 11.0 16.4#



#13

Acrolein

Concen: 58.96 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.04 min

Lab File: VF059396.D

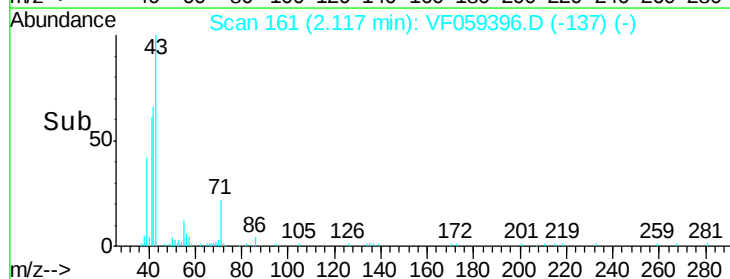
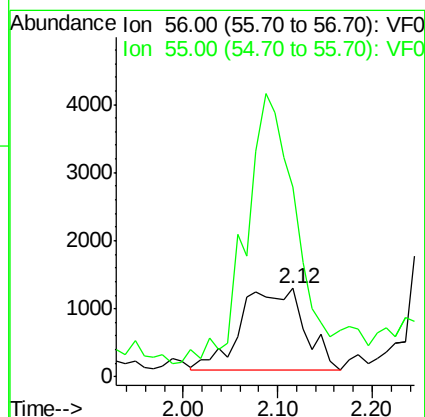
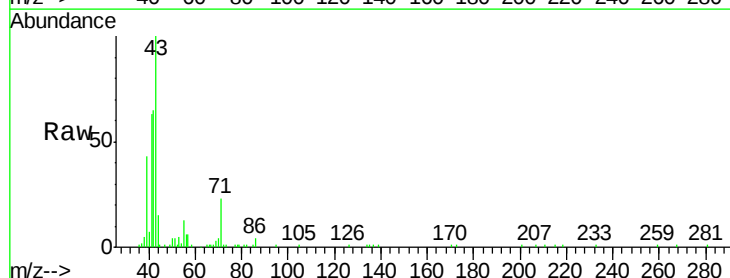
Acq: 2 Jul 2018 19:28

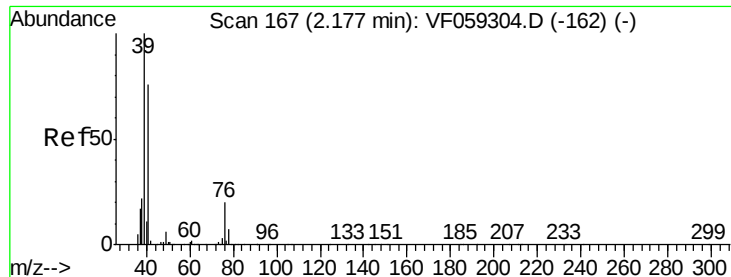
Tgt Ion: 56 Resp: 5468

Ion Ratio Lower Upper

56 100

55 215.0 62.4 93.6#





#14

Allvl chloride

Concen: 36.29 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.09 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

CF-2(15.0)RE

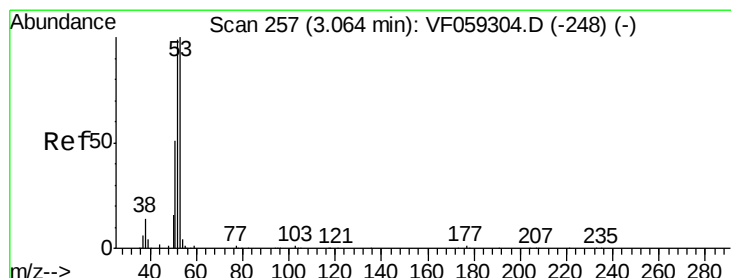
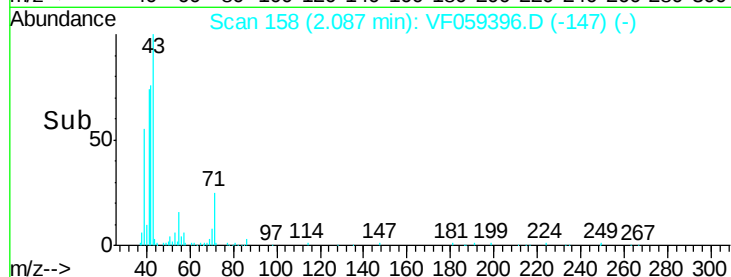
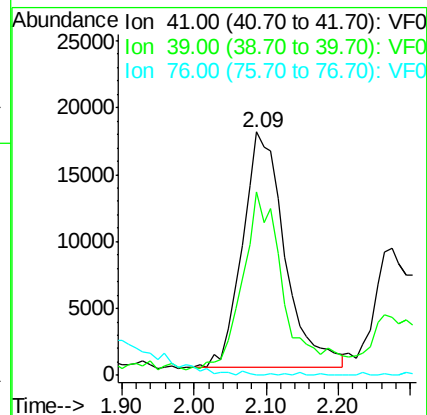
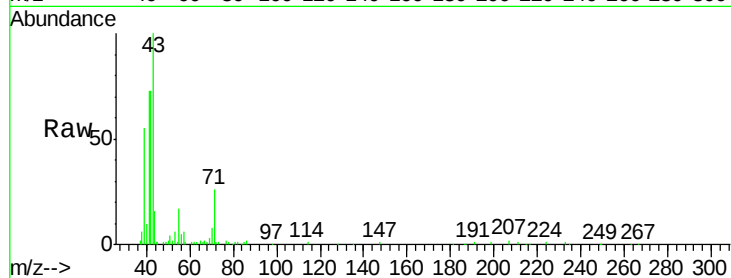
Tot Ion: 41 Resp: 72624

Ion Ratio Lower Upper

41 100

39 75.4 105.6 158.4#

76 0.0 21.6 32.4#



#15

Acrylonitrile

Concen: 147.31 ug/l

RT: 3.08 min Scan# 259

Delta R.T. 0.02 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

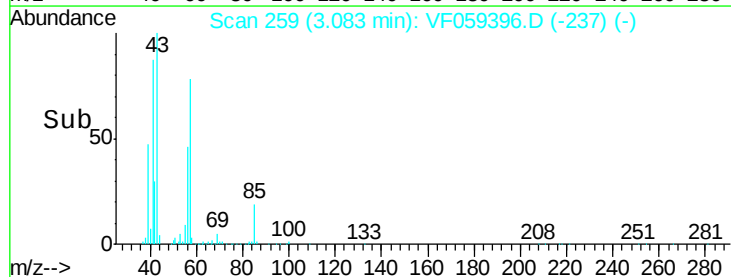
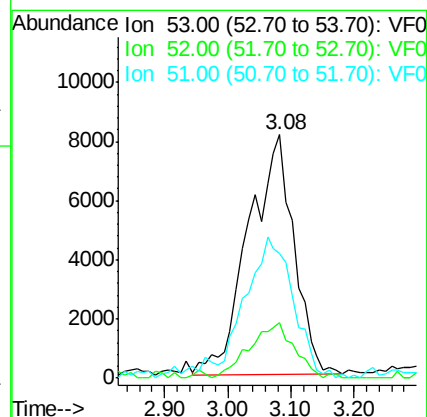
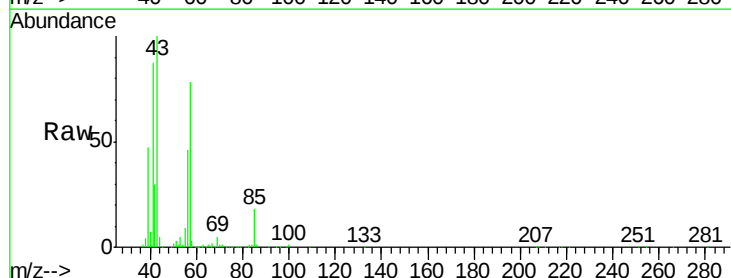
Tgt Ion: 53 Resp: 40346

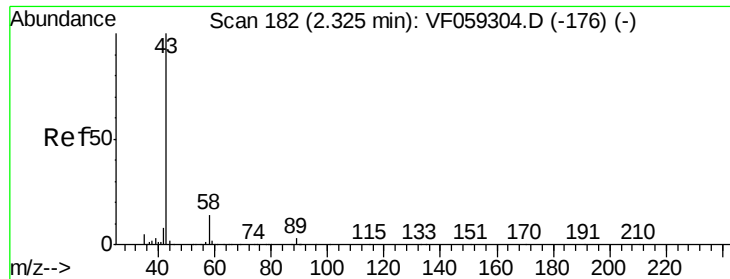
Ion Ratio Lower Upper

53 100

52 22.9 79.2 118.8#

51 51.0 40.9 61.3





#16

Acetone

Concen: 67.85 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

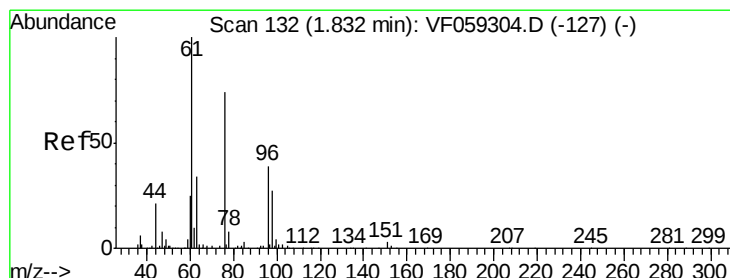
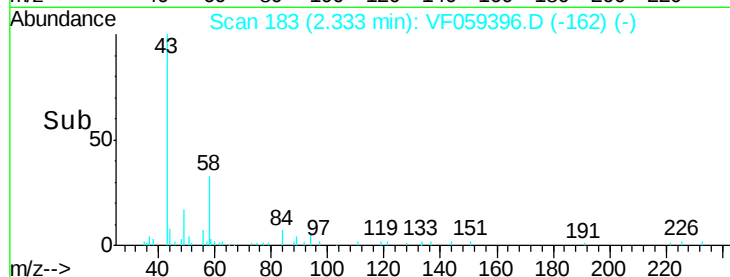
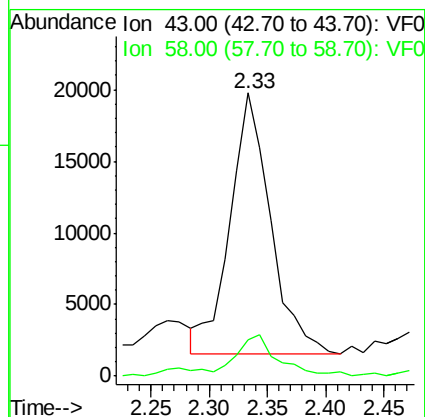
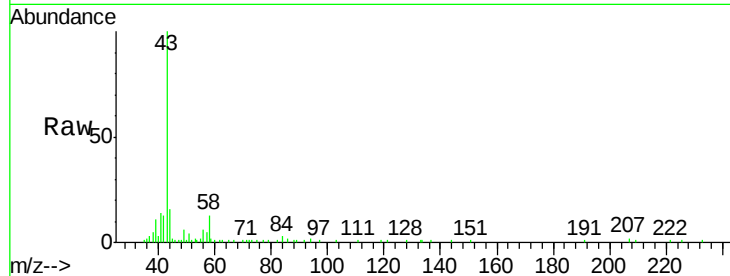
CF-2(15.0)RE

Tot Ion: 43 Resp: 43925

Ion Ratio Lower Upper

43 100

58 13.0 11.4 17.0



#17

Carbon Disulfide

Concen: 7.24 ug/l

RT: 1.87 min Scan# 136

Delta R.T. 0.04 min

Lab File: VF059396.D

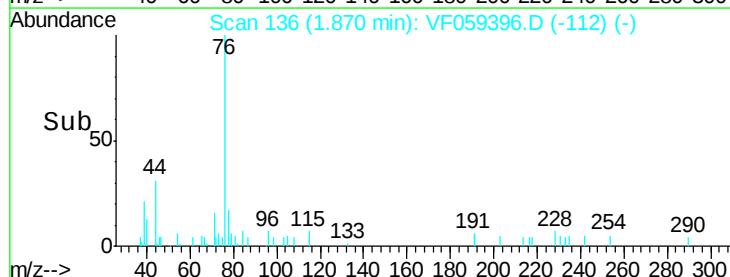
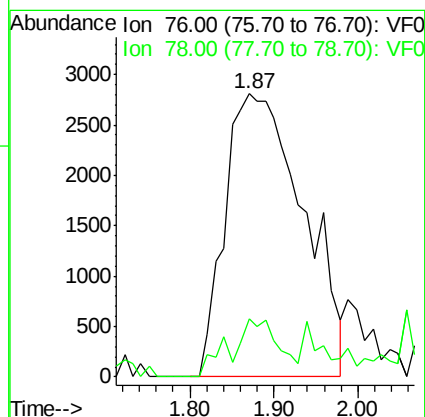
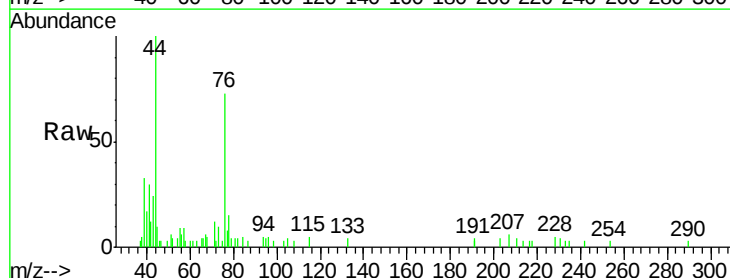
Acq: 2 Jul 2018 19:28

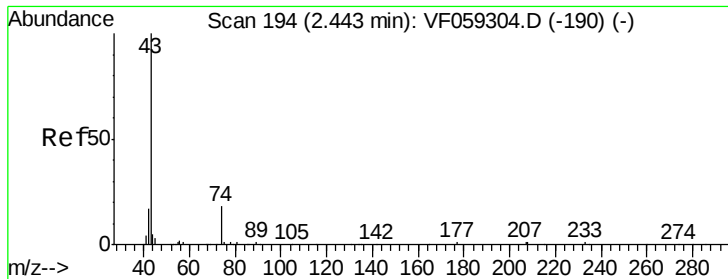
Tgt Ion: 76 Resp: 18167

Ion Ratio Lower Upper

76 100

78 20.6 8.9 13.3#

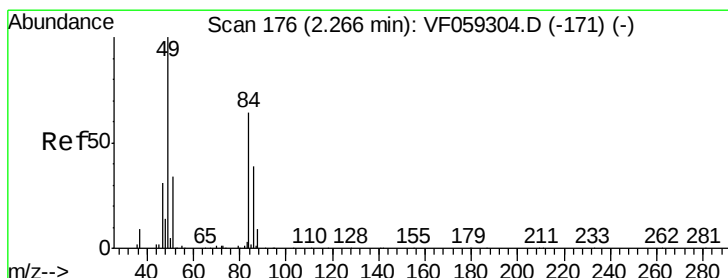
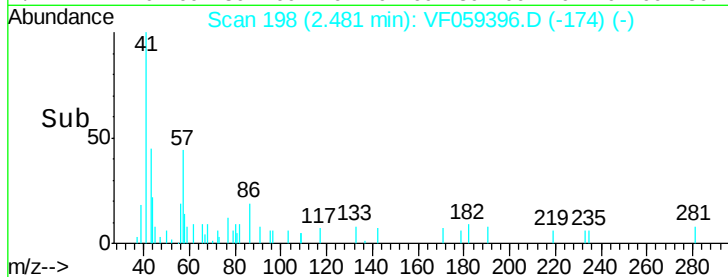
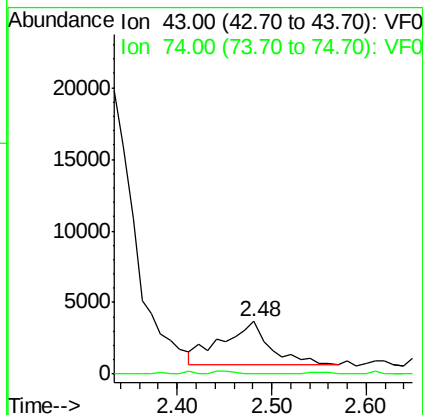
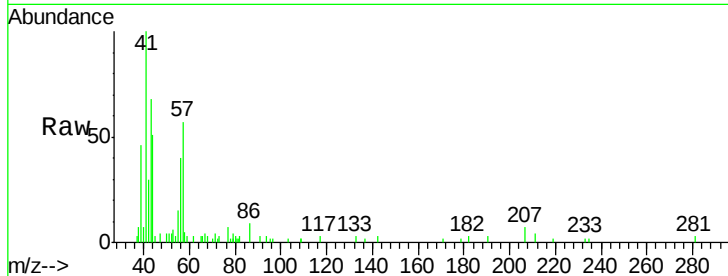




#18  
Methyl Acetate  
Concen: 8.96 ug/l  
RT: 2.48 min Scan# 198  
Delta R.T. 0.04 min  
Lab File: VF059396.D  
Acq: 2 Jul 2018 19:28

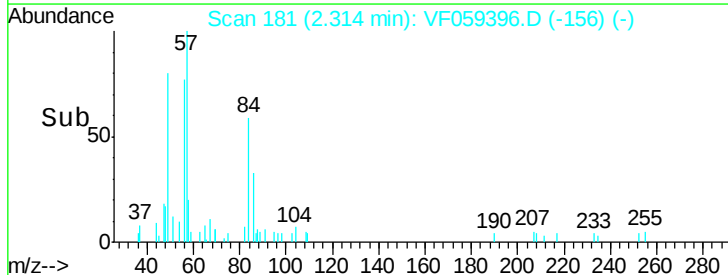
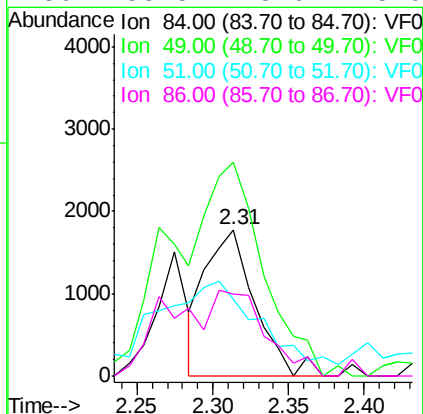
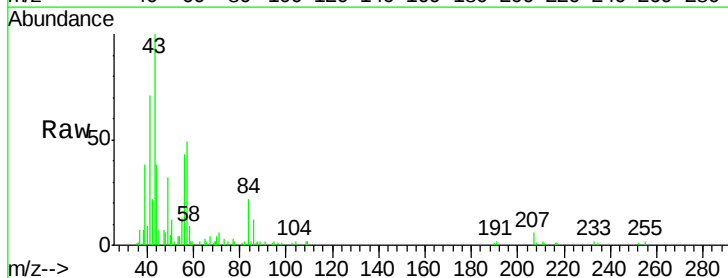
Instrument :  
MSVOA\_F  
ClientSampleId :  
CF-2(15.0)RE

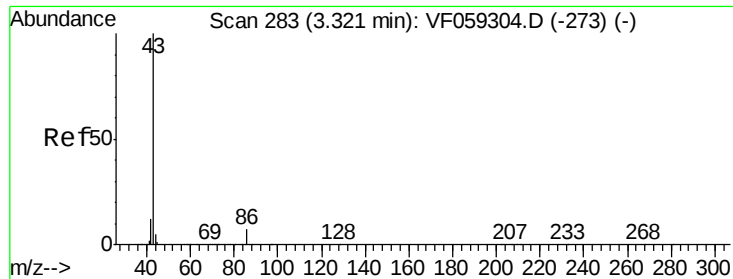
Tot Ion: 43 Resp: 10459  
Ion Ratio Lower Upper  
43 100  
74 0.0 13.3 19.9#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.31 min Scan# 181  
Delta R.T. 0.05 min  
Lab File: VF059396.D  
Acq: 2 Jul 2018 19:28

Tgt Ion: 84 Resp: 4066  
Ion Ratio Lower Upper  
84 100  
49 145.8 126.5 189.7  
51 52.9 42.9 64.3  
86 55.5 48.6 73.0





#23

Vinyl Acetate

Concen: 5.42 ug/l

RT: 3.27 min Scan# 278

Delta R.T. -0.05 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

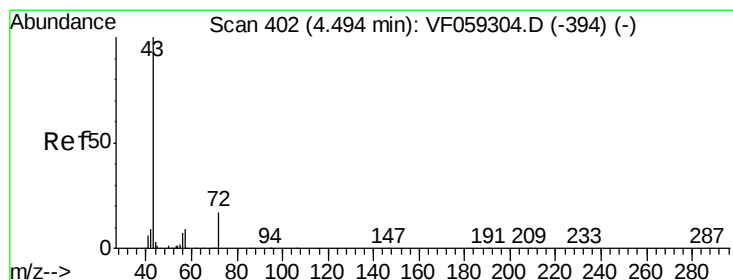
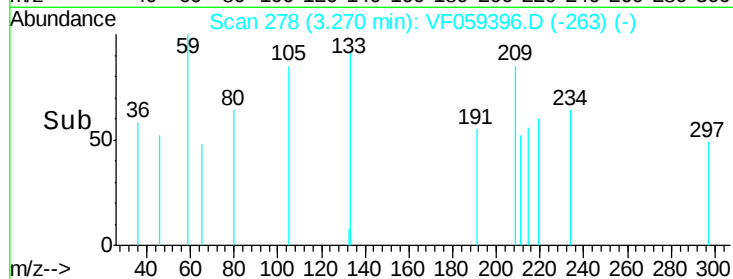
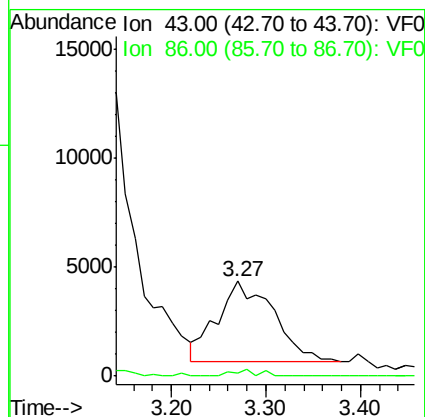
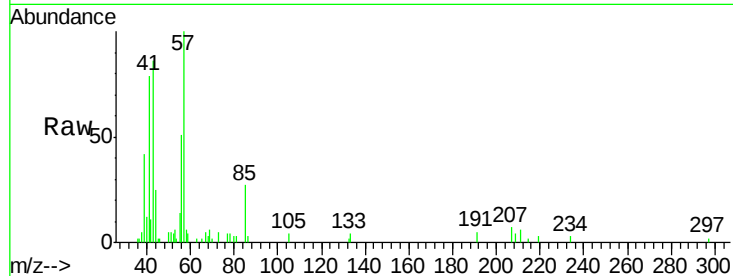
CF-2(15.0)RE

Tot Ion: 43 Resp: 15293

Ion Ratio Lower Upper

43 100

86 3.8 5.8 8.6#



#25

2-Butanone

Concen: 188.70 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.04 min

Lab File: VF059396.D

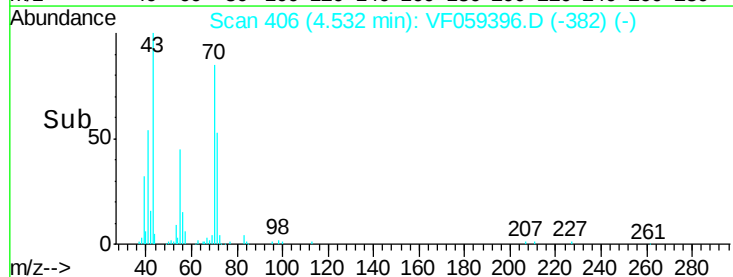
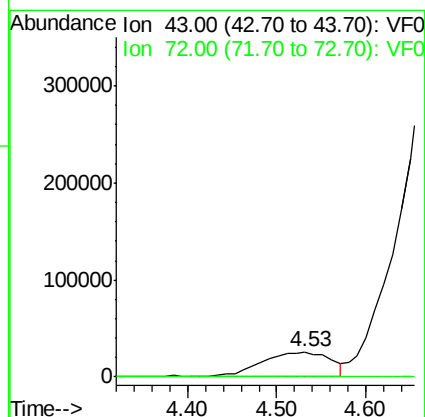
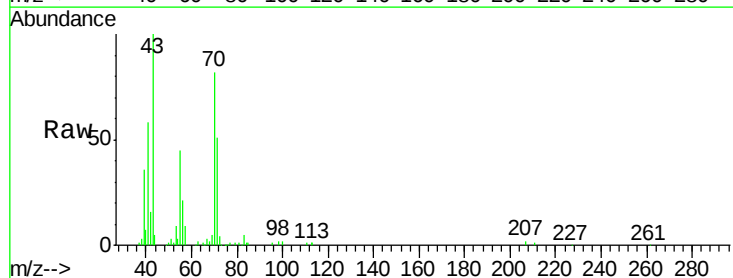
Acq: 2 Jul 2018 19:28

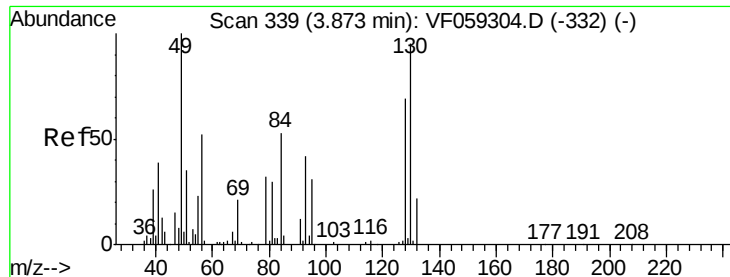
Tgt Ion: 43 Resp: 133842

Ion Ratio Lower Upper

43 100

72 4.0 14.4 21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.85 min Scan# 337

Delta R.T. -0.02 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

CF-2(15.0)RE

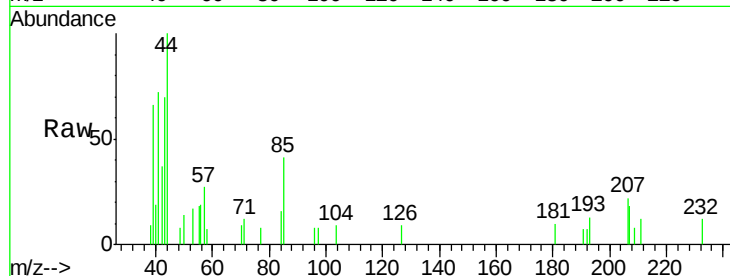
Tot Ion: 49 Resp: 67

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

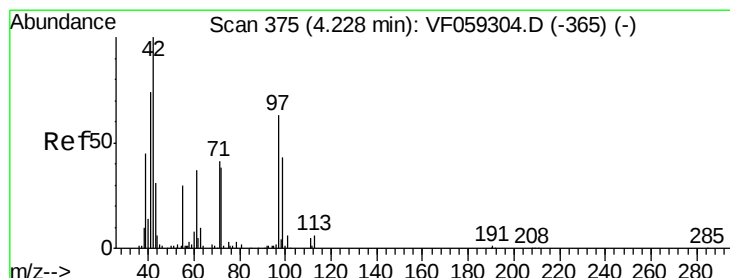
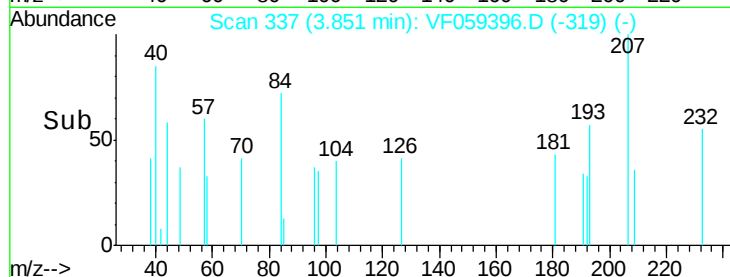
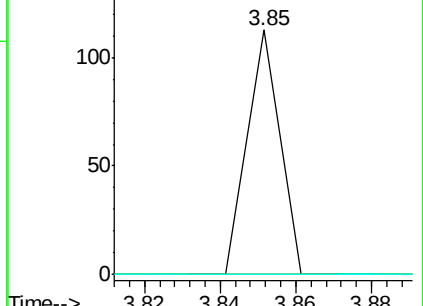
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0



#29

Tetrahydrofuran

Concen: 1062.59 ug/l

RT: 4.09 min Scan# 361

Delta R.T. -0.14 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

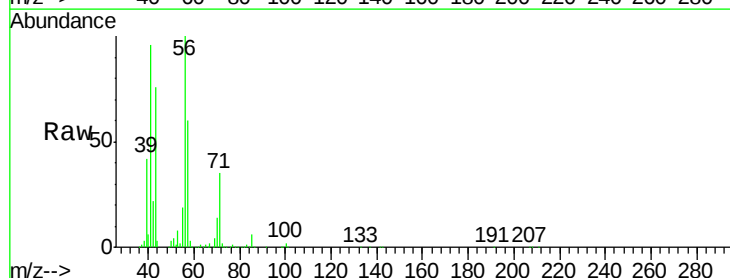
Tgt Ion: 42 Resp: 310646

Ion Ratio Lower Upper

42 100

72 9.6 30.5 45.7#

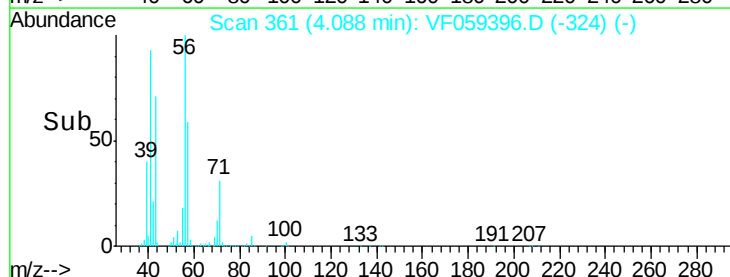
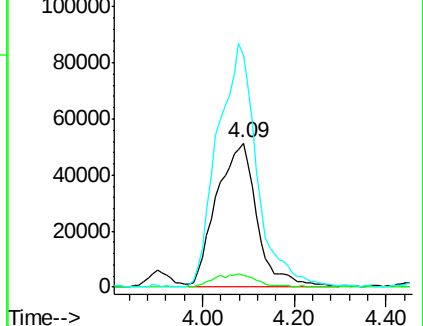
71 167.1 32.5 48.7#

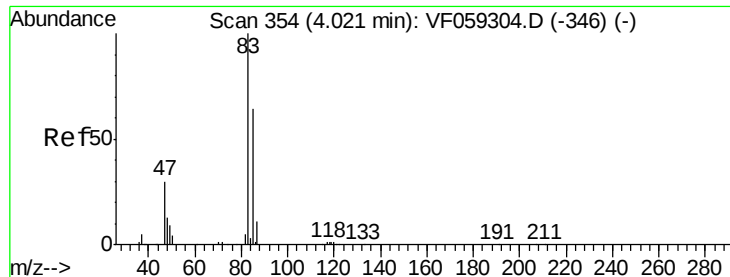


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#30

Chloroform

Concen: 1.05 ug/l

RT: 4.04 min Scan# 356

Delta R.T. 0.02 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

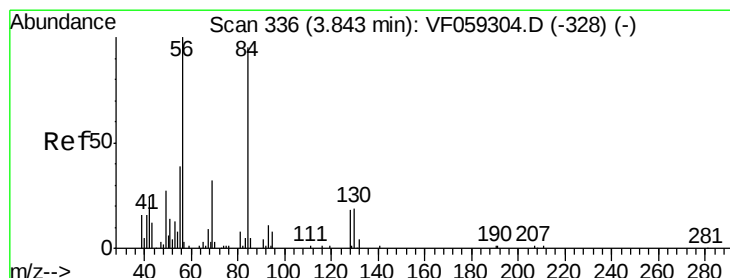
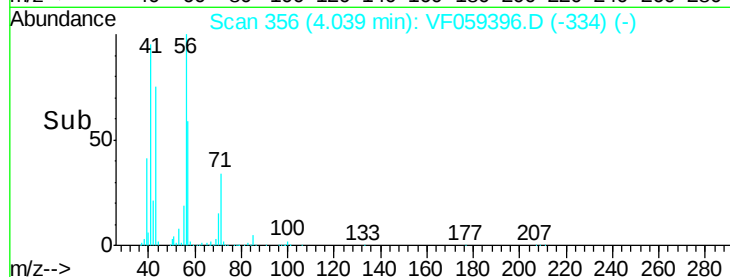
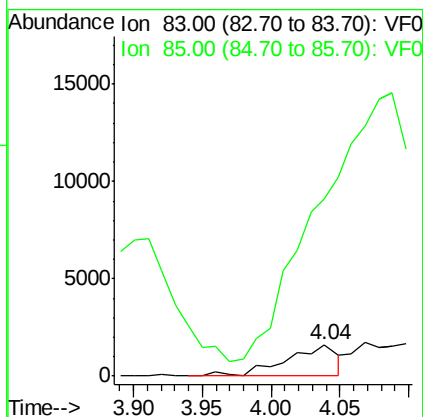
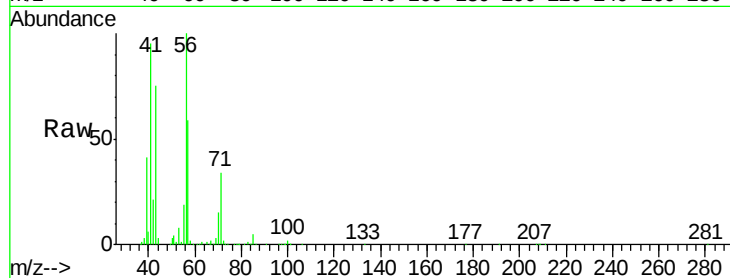
CF-2(15.0)RE

Tot Ion: 83 Resp: 4195

Ion Ratio Lower Upper

83 100

85 566.7 51.3 76.9#



#31

Cyclohexane

Concen: 9.69 ug/l

RT: 3.90 min Scan# 342

Delta R.T. 0.06 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

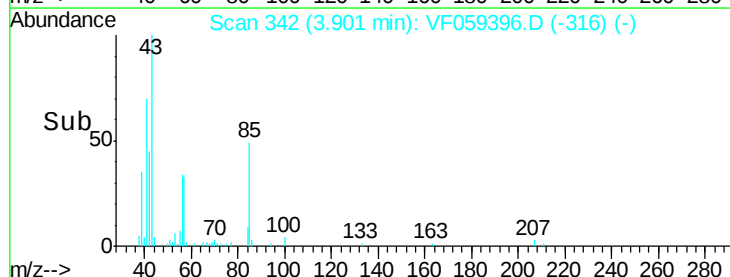
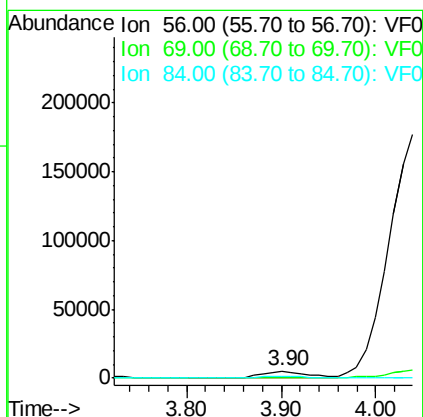
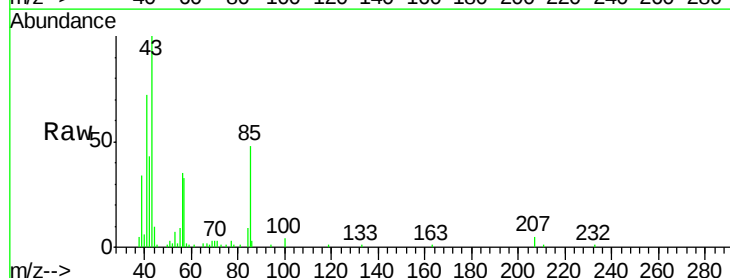
Tgt Ion: 56 Resp: 17449

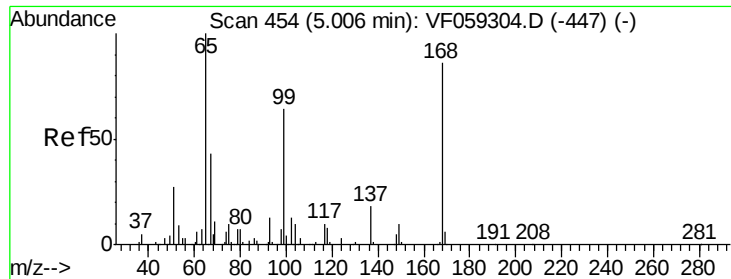
Ion Ratio Lower Upper

56 100

69 8.8 25.8 38.8#

84 26.7 75.6 113.4#





#33

1,2-Dichloroethane-d4

Concen: 63.94 ug/l

RT: 5.00 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

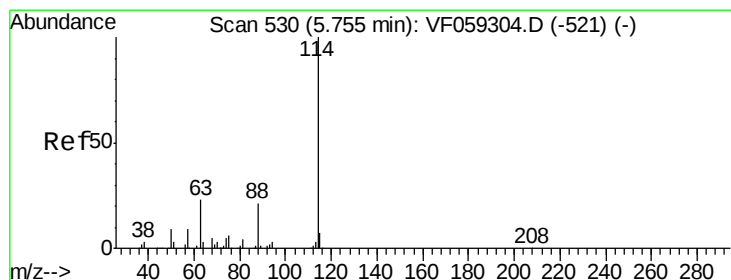
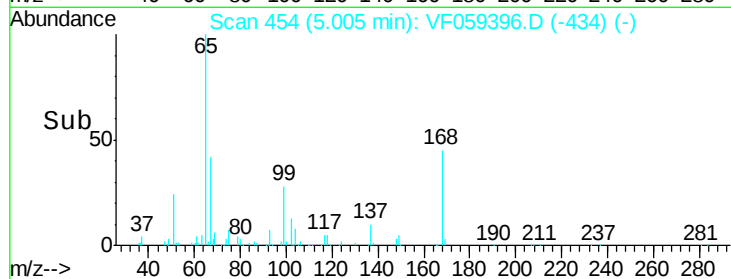
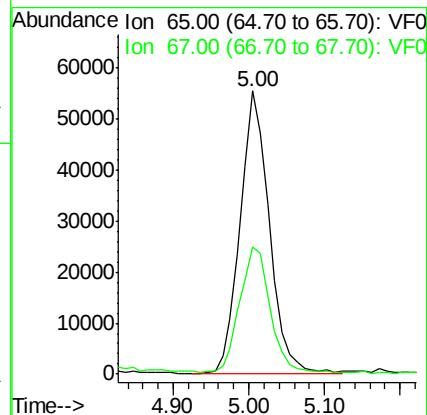
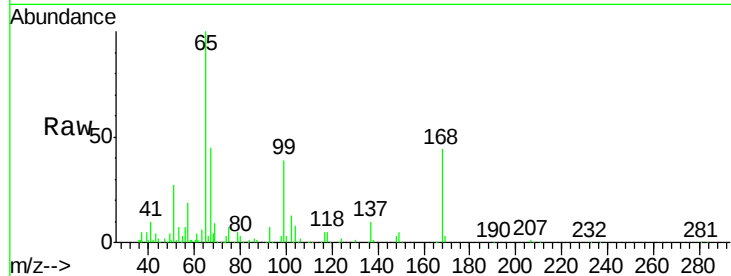
CF-2(15.0)RE

Tot Ion: 65 Resp: 149378

Ion Ratio Lower Upper

65 100

67 44.9 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

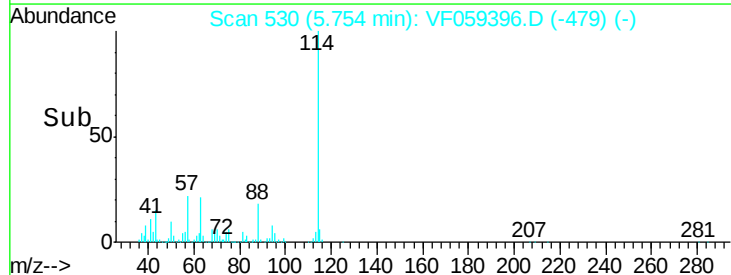
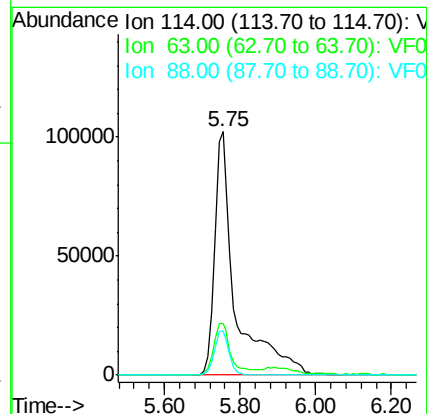
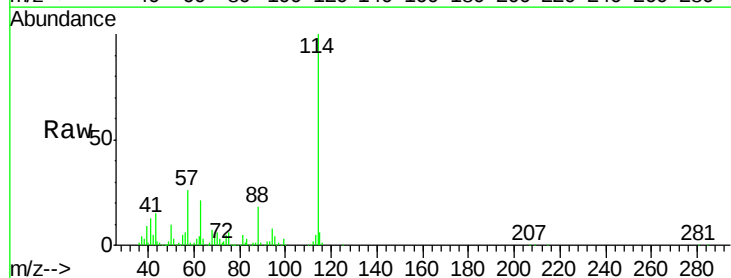
Tgt Ion: 114 Resp: 400654

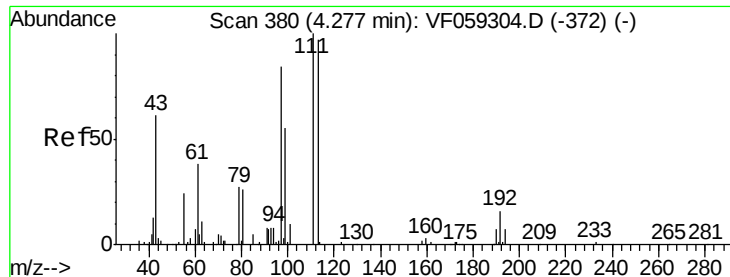
Ion Ratio Lower Upper

114 100

63 21.0 0.0 45.8

88 18.0 0.0 41.2

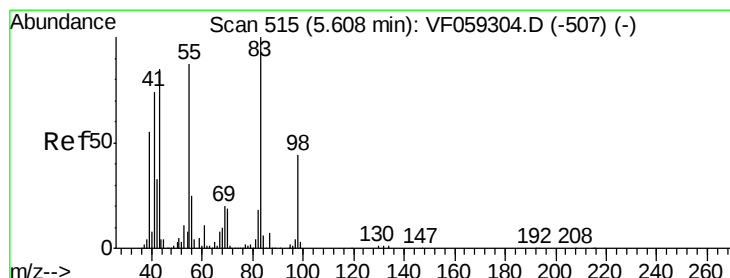
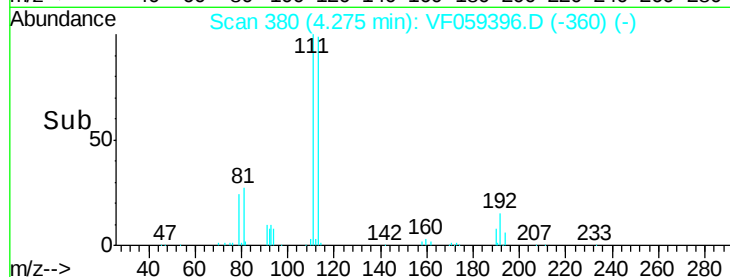
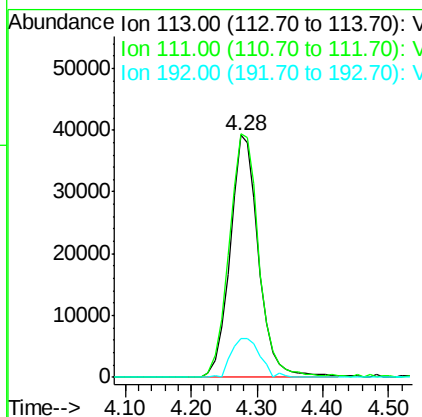
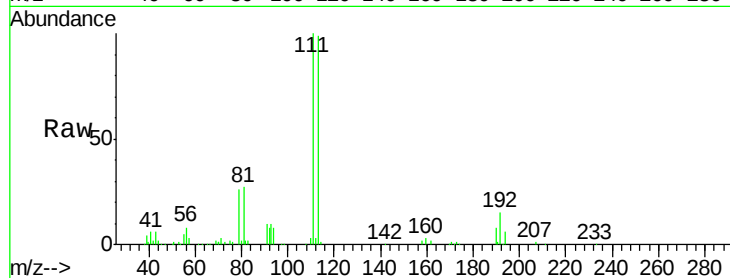




#35  
 Dibromofluoromethane  
 Concen: 40.53 ug/l  
 RT: 4.28 min Scan# 380  
 Delta R.T. -0.00 min  
 Lab File: VF059396.D  
 Acq: 2 Jul 2018 19:28

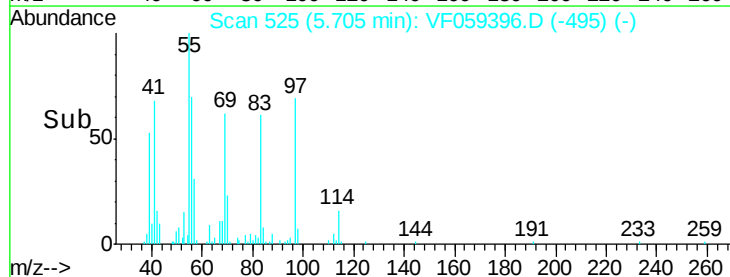
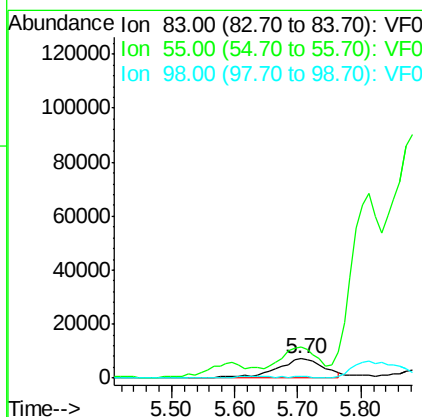
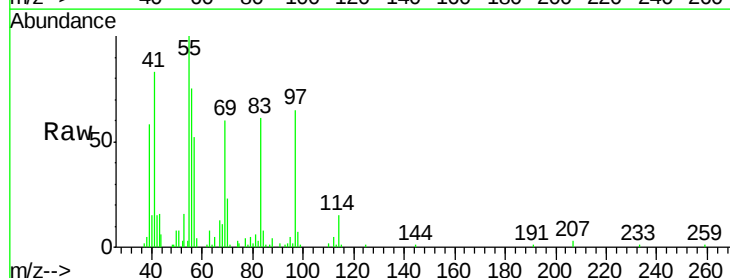
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 CF-2(15.0)RE

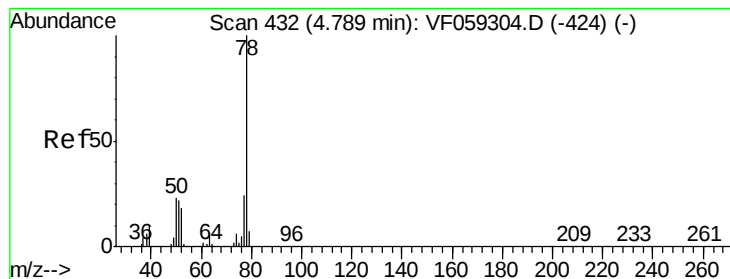
| Tot Ion   | 113   | Resp  | 118660 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 100.7 | 82.1  | 123.1  |
| 192       | 15.9  | 13.0  | 19.6   |



#39  
 Methylcyclohexane  
 Concen: 11.95 ug/l  
 RT: 5.70 min Scan# 525  
 Delta R.T. 0.10 min  
 Lab File: VF059396.D  
 Acq: 2 Jul 2018 19:28

| Tgt Ion   | 83    | Resp  | 37058  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 55        | 165.0 | 69.2  | 103.8# |
| 98        | 10.7  | 35.0  | 52.6#  |





#40

Benzene

Concen: 2.27 ug/l

RT: 4.74 min Scan# 427

Delta R.T. -0.05 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

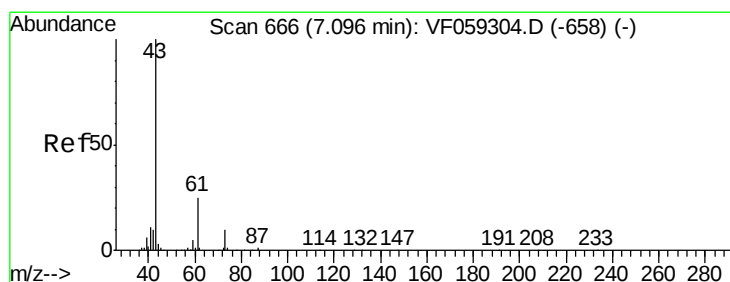
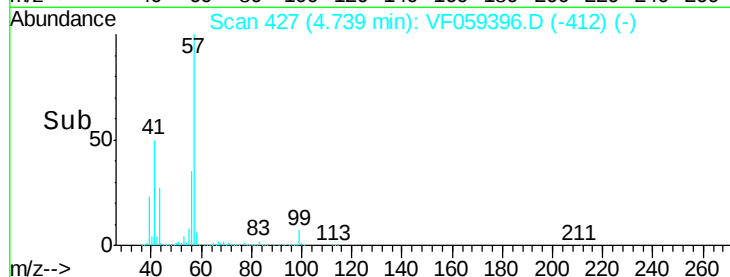
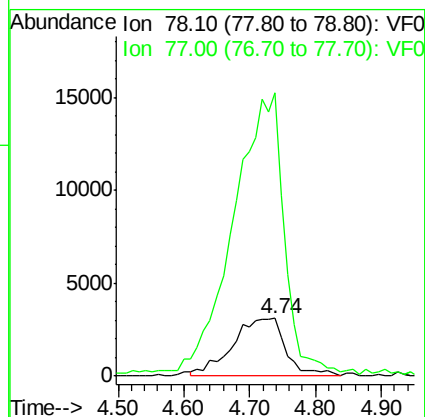
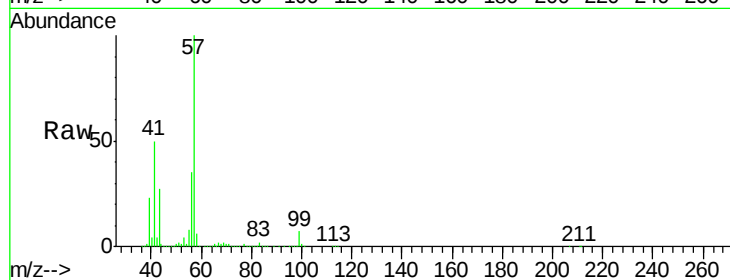
CF-2(15.0)RE

Tot Ion: 78 Resp: 17623

Ion Ratio Lower Upper

78 100

77 489.3 19.6 29.4#



#43

Isopropyl Acetate

Concen: 166.73 ug/l

RT: 6.96 min Scan# 652

Delta R.T. -0.14 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

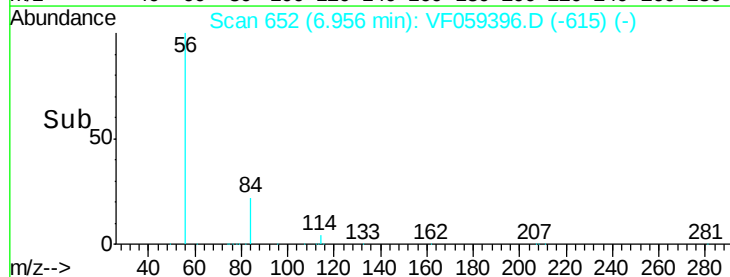
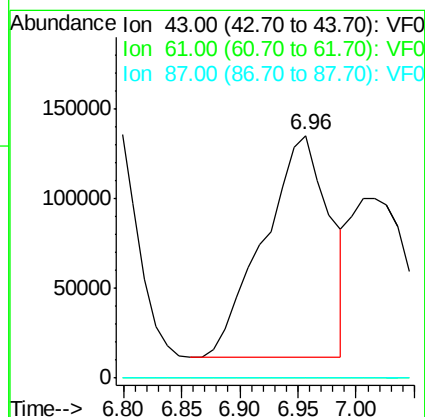
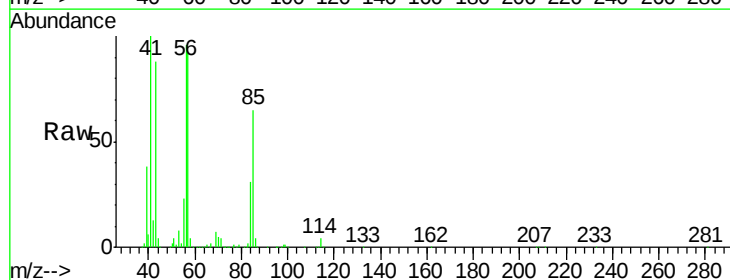
Tgt Ion: 43 Resp: 486074

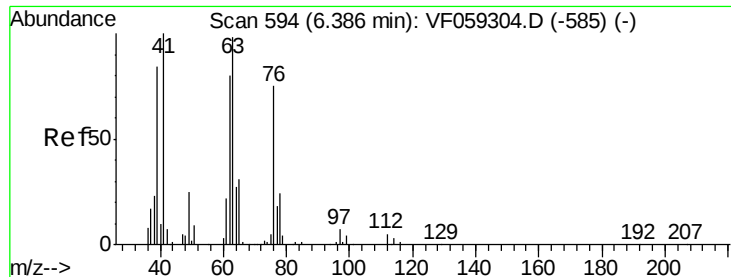
Ion Ratio Lower Upper

43 100

61 0.2 19.7 29.5#

87 0.1 0.5 0.7#





#45

1,2-Dichloropropane

Concen: 14.30 ug/l

RT: 6.46 min Scan# 602

Delta R.T. 0.08 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

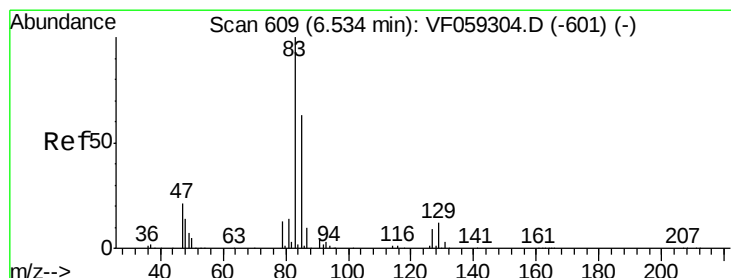
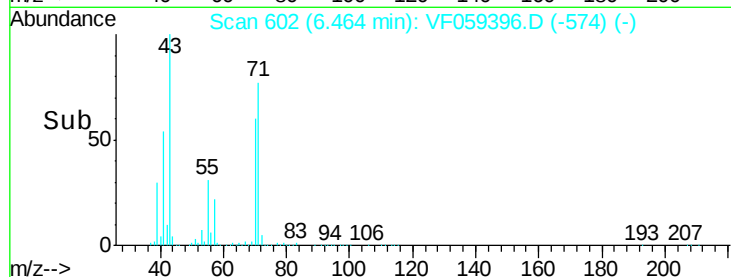
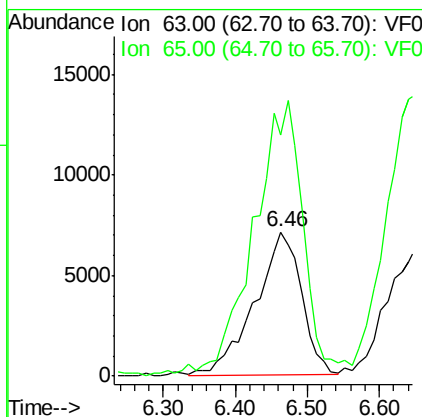
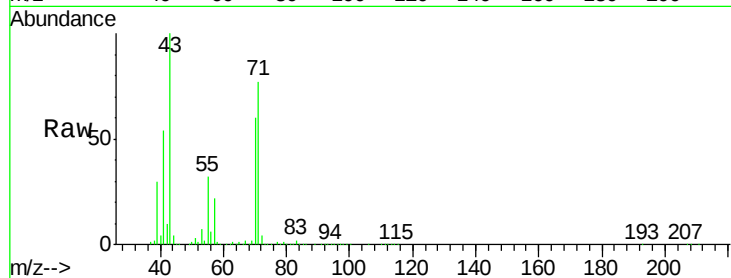
CF-2(15.0)RE

Tot Ion: 63 Resp: 31705

Ion Ratio Lower Upper

63 100

65 166.6 25.3 37.9#



#47

Bromodichloromethane

Concen: 18.91 ug/l

RT: 6.47 min Scan# 603

Delta R.T. -0.06 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

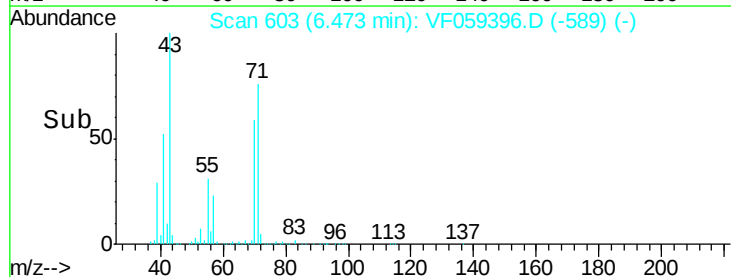
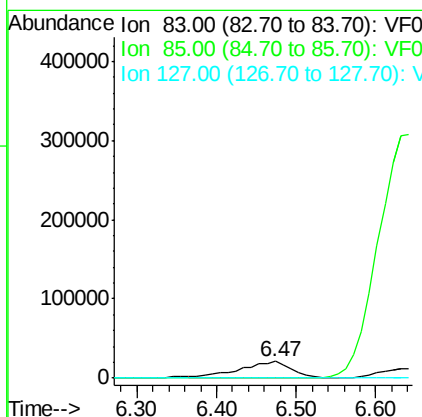
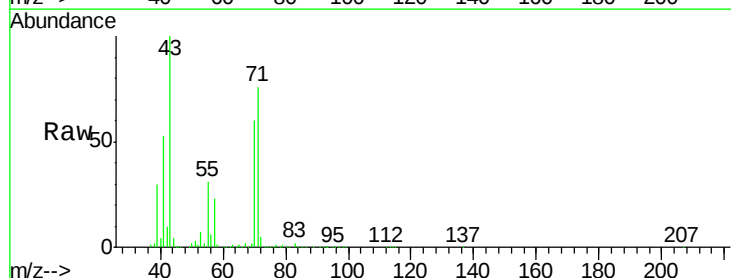
Tgt Ion: 83 Resp: 88077

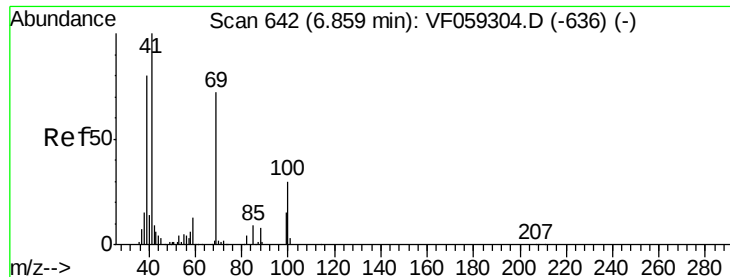
Ion Ratio Lower Upper

83 100

85 6.4 50.2 75.2#

127 0.0 7.0 10.4#





#48

Methyl methacrylate

Concen: 80.87 ug/l

RT: 6.79 min Scan# 635

Delta R.T. -0.07 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

CF-2(15.0)RE

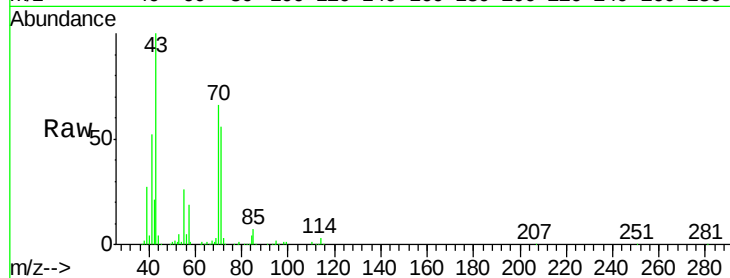
Tot Ion: 41 Resp: 158024

Ion Ratio Lower Upper

41 100

69 6.5 57.3 85.9#

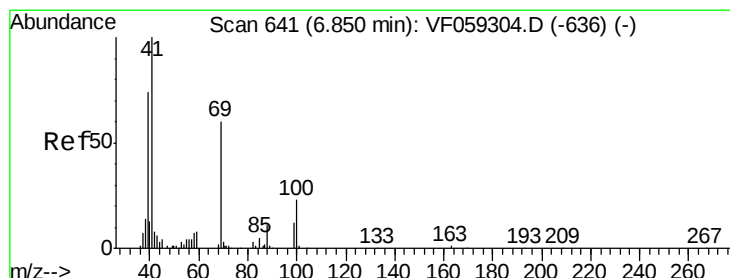
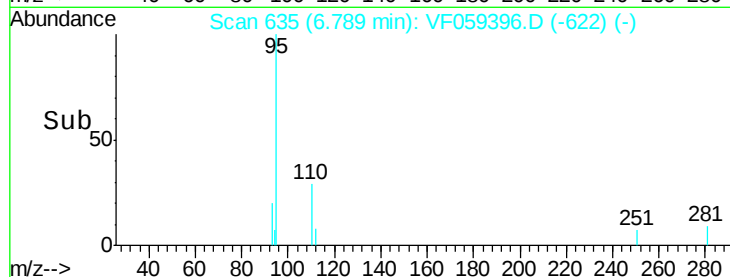
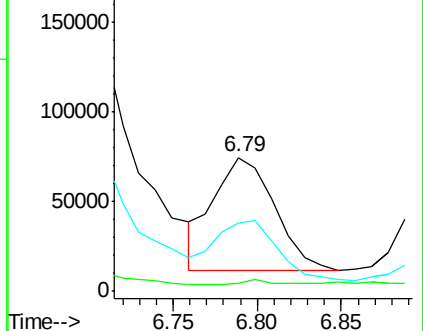
39 51.6 64.4 96.6#



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: Below Cal

RT: 6.39 min Scan# 595

Delta R.T. -0.45 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

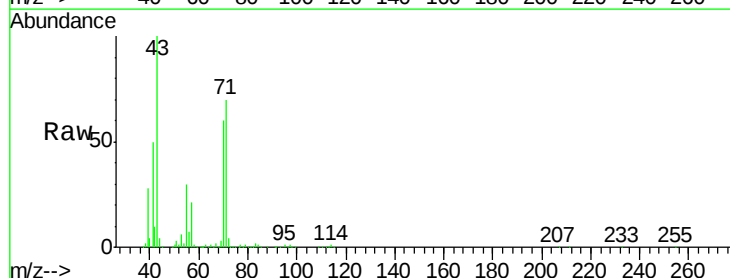
Tgt Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 213417.3 50.6 75.8#

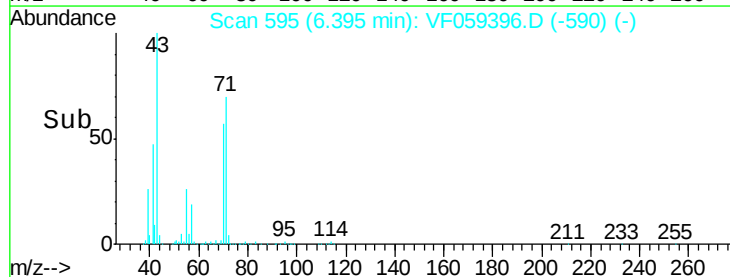
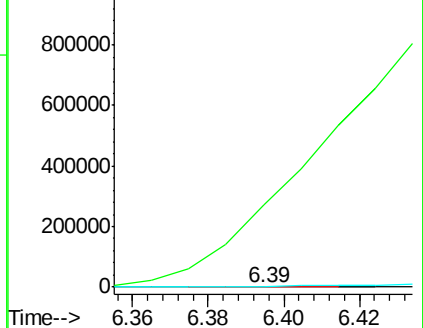
58 2110.2 46.6 69.8#

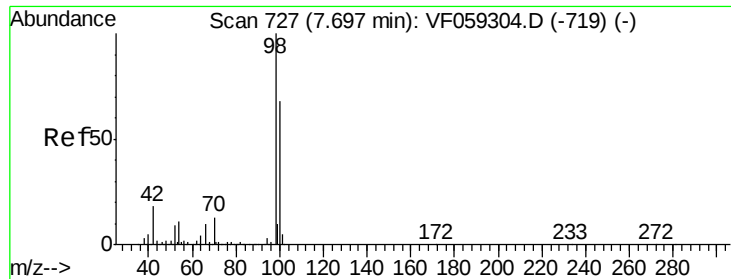


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

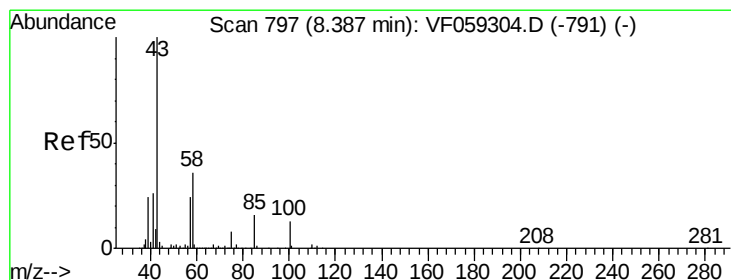
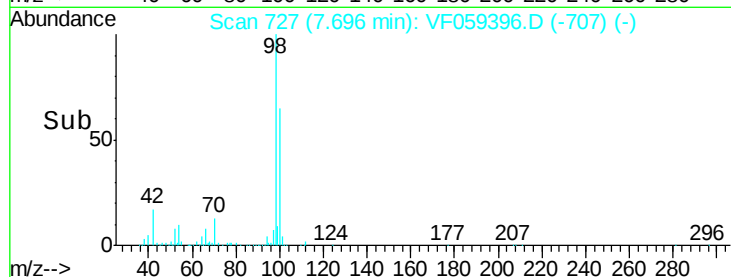
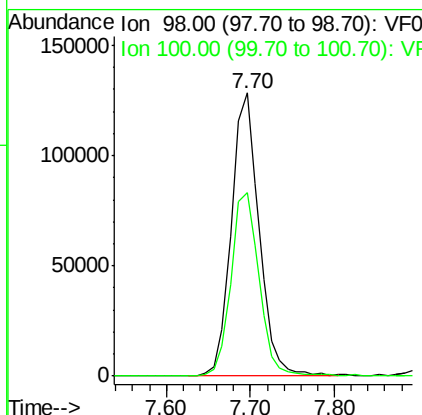
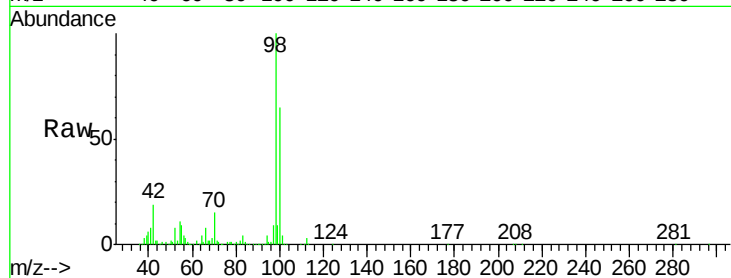




#50  
Toluene-d8  
Concen: 40.76 ug/l  
RT: 7.70 min Scan# 727  
Delta R.T. -0.00 min  
Lab File: VF059396.D  
Acq: 2 Jul 2018 19:28

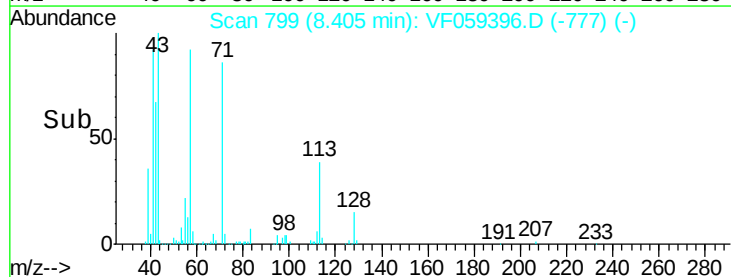
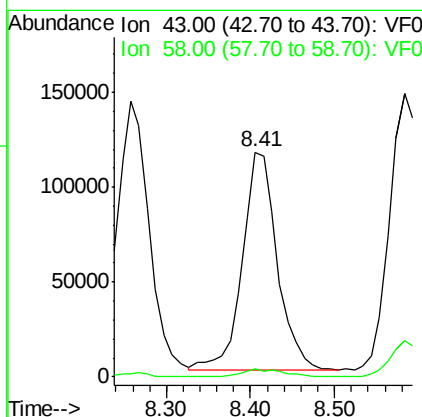
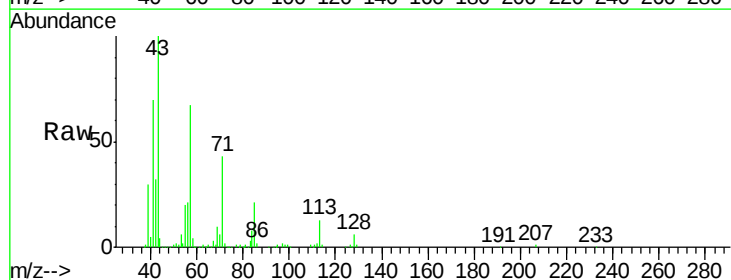
Instrument :  
MSVOA\_F  
ClientSampleId :  
CF-2(15.0)RE

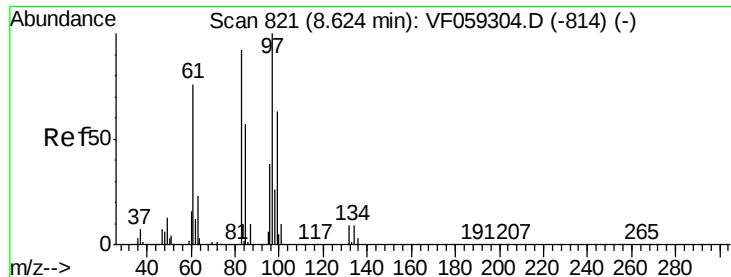
Tot Ion: 98 Resp: 295406  
Ion Ratio Lower Upper  
98 100  
100 64.8 54.6 82.0



#51  
4-Methyl-2-Pentanone  
Concen: 155.18 ug/l  
RT: 8.41 min Scan# 799  
Delta R.T. 0.02 min  
Lab File: VF059396.D  
Acq: 2 Jul 2018 19:28

Tgt Ion: 43 Resp: 335173  
Ion Ratio Lower Upper  
43 100  
58 3.9 28.4 42.6#





#55

1,1,2-Trichloroethane

Concen: 17.08 ug/l

RT: 8.55 min Scan# 814

Delta R.T. -0.07 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

CF-2(15.0)RE

Tot Ion: 97 Resp: 38508

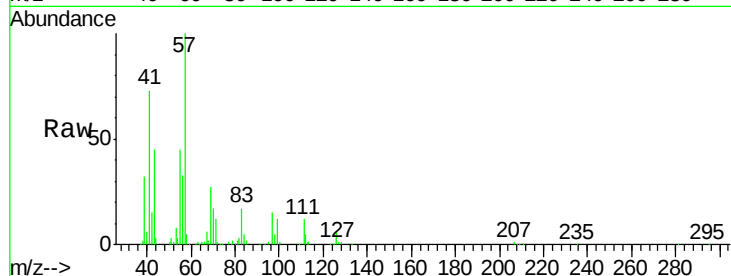
Ion Ratio Lower Upper

97 100

83 113.4 73.8 110.8#

85 13.2 45.5 68.3#

99 78.2 50.7 76.1#

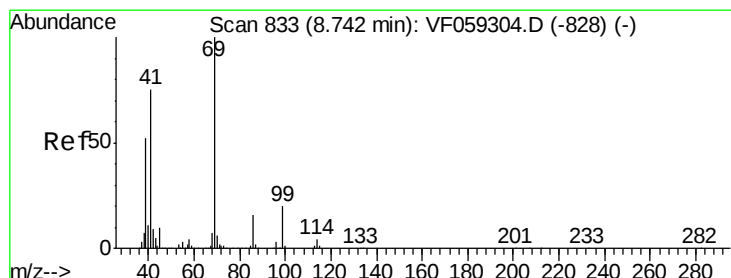
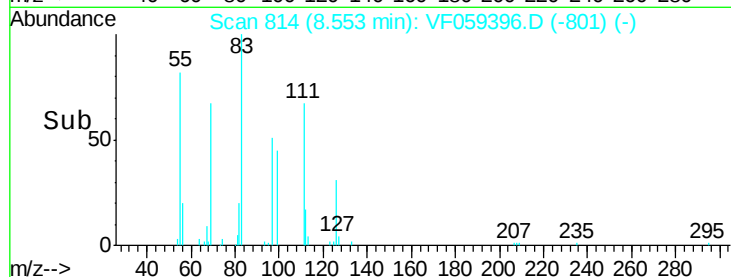
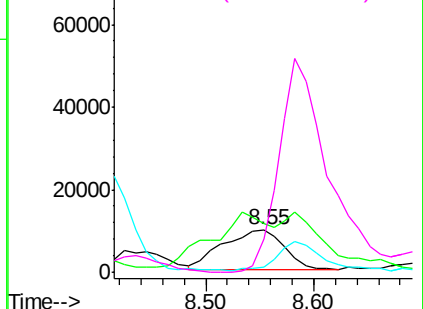


Abundance Ion 97.00 (96.70 to 97.70): VF0

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



#56

Ethyl methacrylate

Concen: 76.12 ug/l

RT: 8.77 min Scan# 836

Delta R.T. 0.03 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

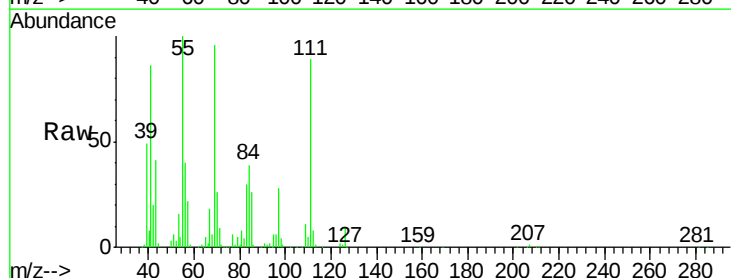
Tgt Ion: 69 Resp: 212611

Ion Ratio Lower Upper

69 100

41 89.6 60.3 90.5

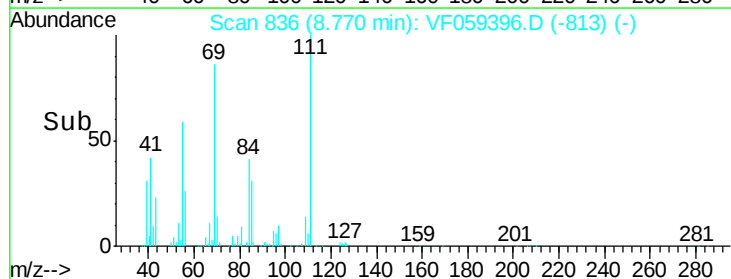
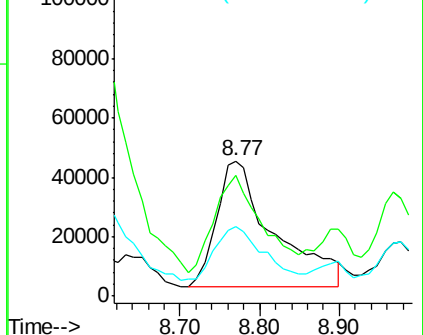
39 51.3 42.2 63.4

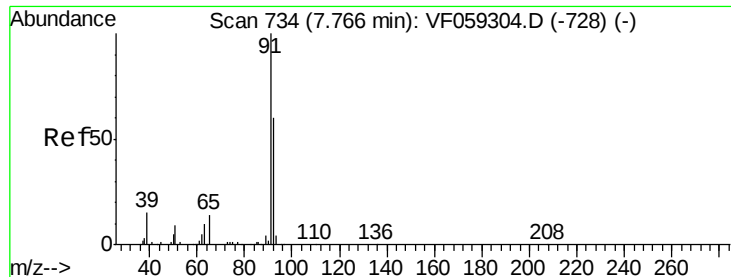


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 2.36 ug/l

RT: 7.81 min Scan# 739

Delta R.T. 0.05 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

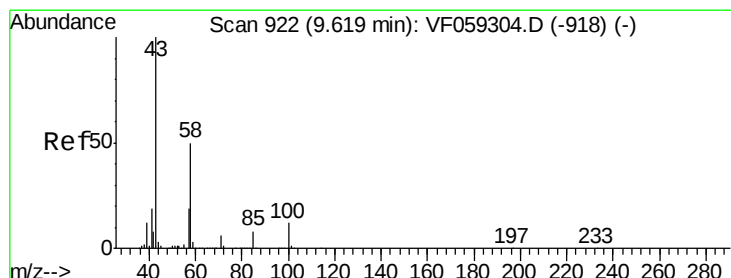
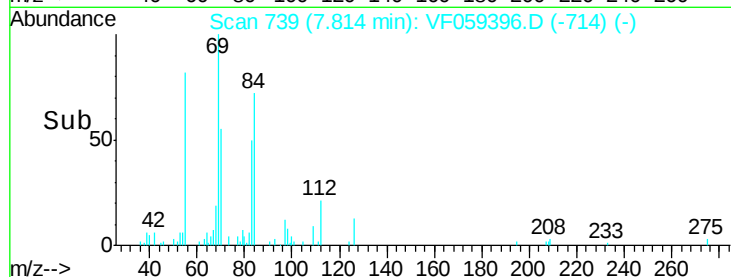
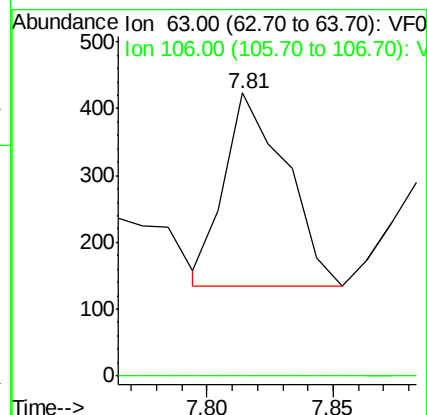
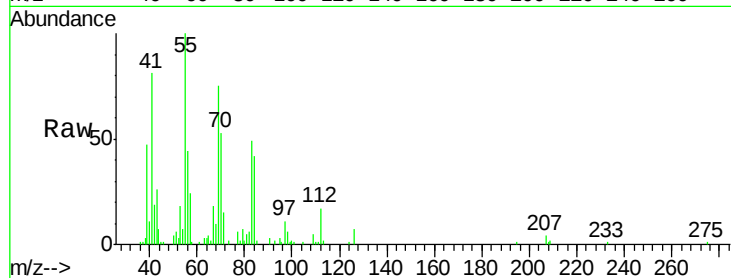
CF-2(15.0)RE

Tot Ion: 63 Resp: 494

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



#59

2-Hexanone

Concen: 224.09 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.02 min

Lab File: VF059396.D

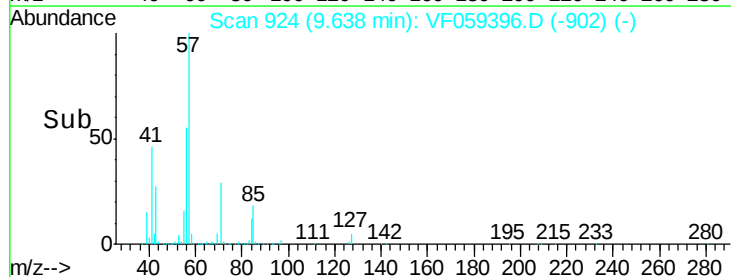
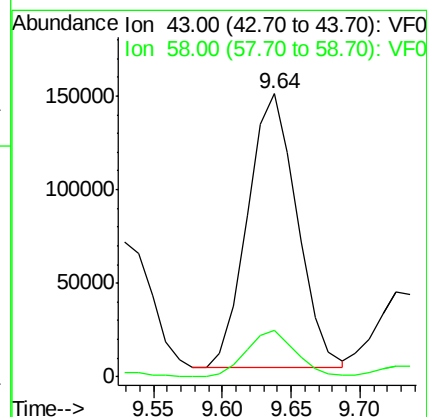
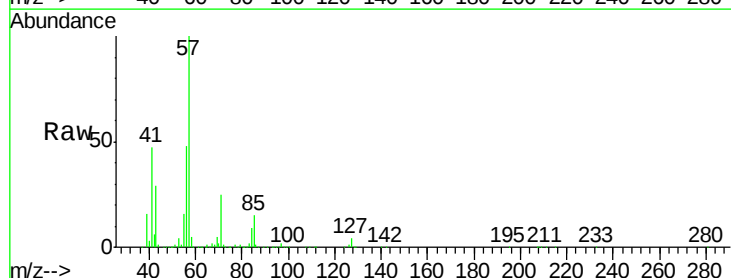
Acq: 2 Jul 2018 19:28

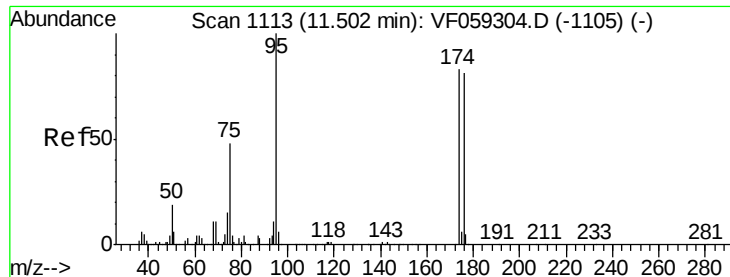
Tgt Ion: 43 Resp: 366458

Ion Ratio Lower Upper

43 100

58 16.6 23.3 69.9#





#62

4-Bromofluorobenzene

Concen: 41.41 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

CF-2(15.0)RE

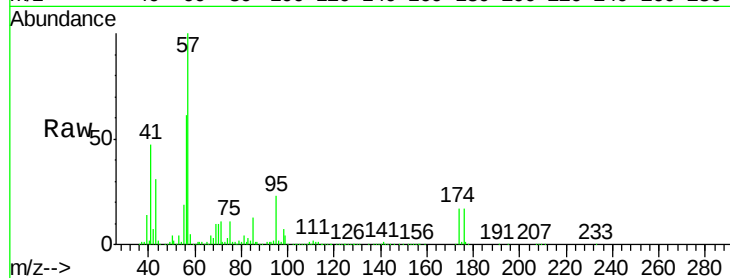
Tot Ion: 95 Resp: 169308

Ion Ratio Lower Upper

95 100

174 77.2 0.0 165.2

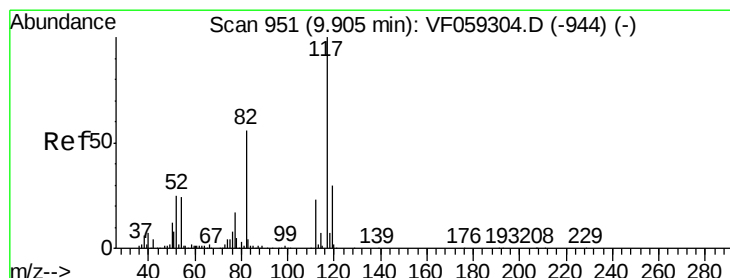
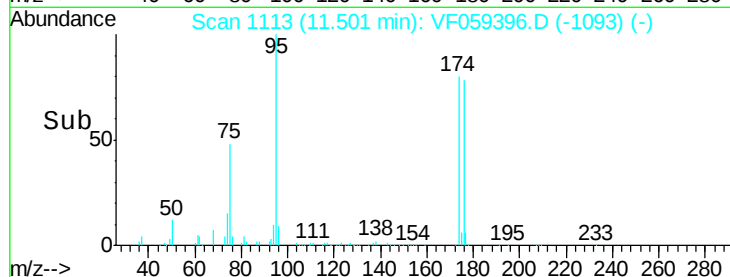
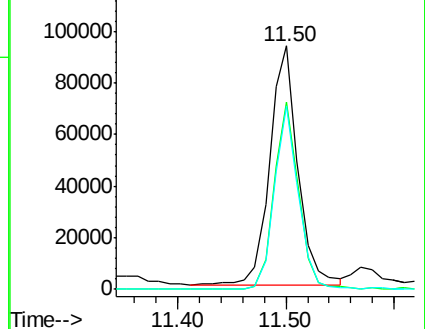
176 75.3 0.0 161.0



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: 50.00 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.00 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

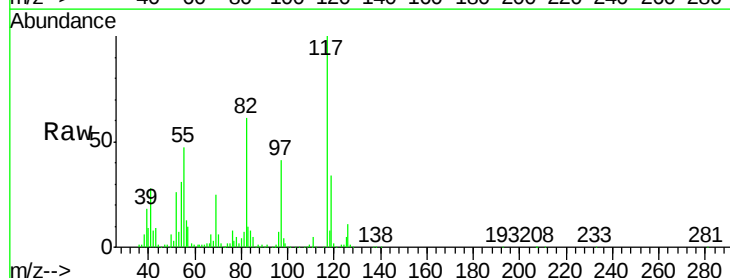
Tgt Ion: 117 Resp: 246652

Ion Ratio Lower Upper

117 100

82 61.0 44.6 66.8

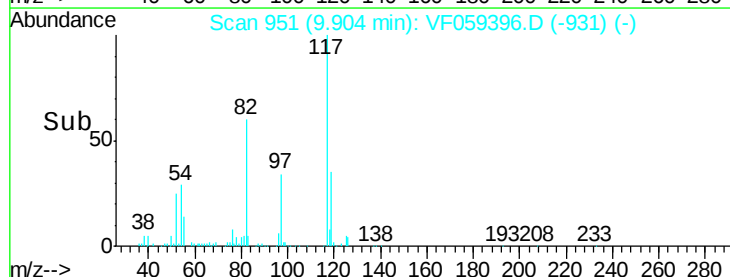
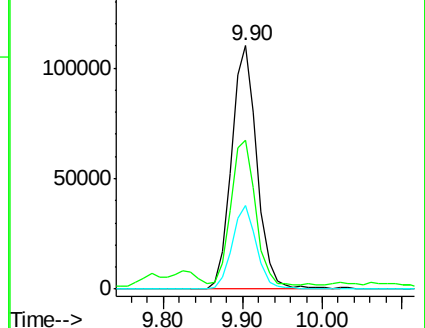
119 34.5 24.1 36.1

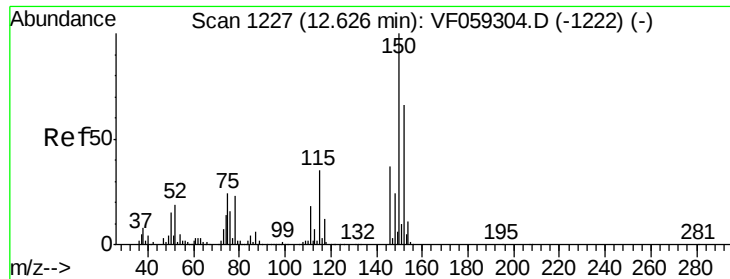


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

CF-2(15.0)RE

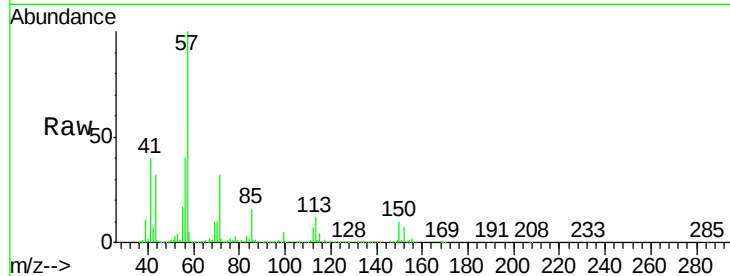
Tot Ion:152 Resp: 118356

Ion Ratio Lower Upper

152 100

115 62.2 27.1 81.3

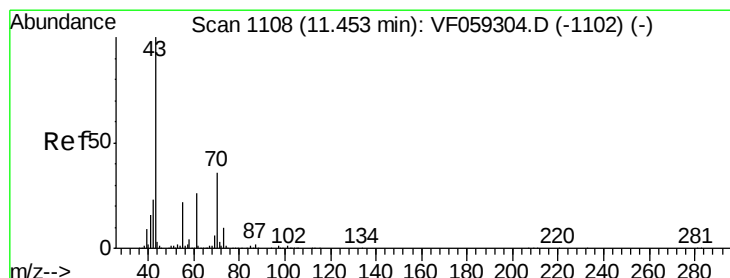
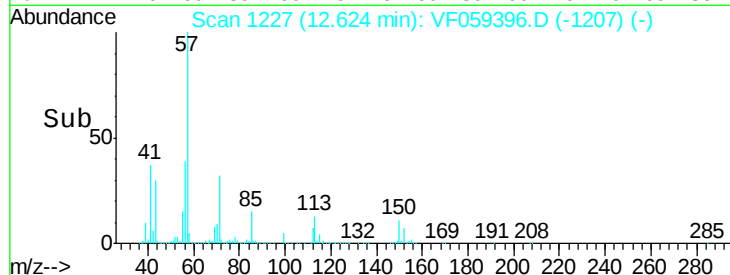
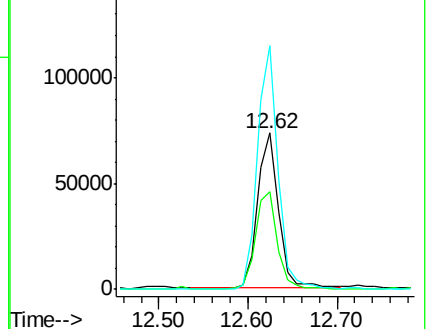
150 155.7 0.0 305.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 190.49 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. 0.03 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Tgt Ion: 43 Resp: 476627

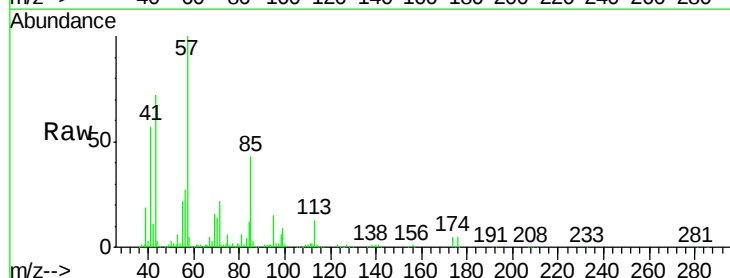
Ion Ratio Lower Upper

43 100

70 19.0 28.8 43.2#

55 30.4 17.4 26.0#

61 0.9 21.1 31.7#

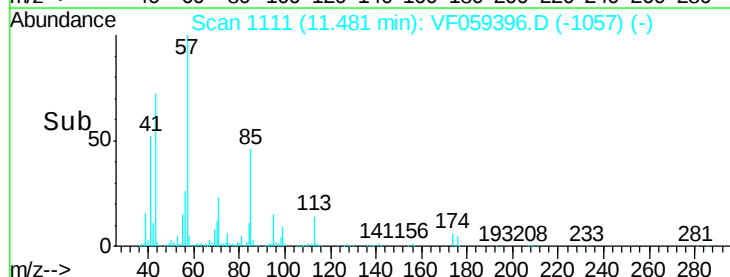
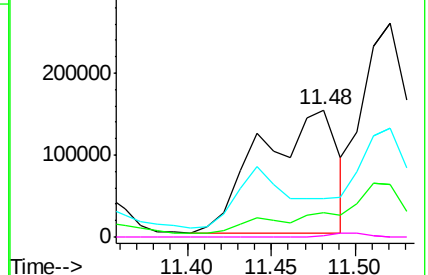


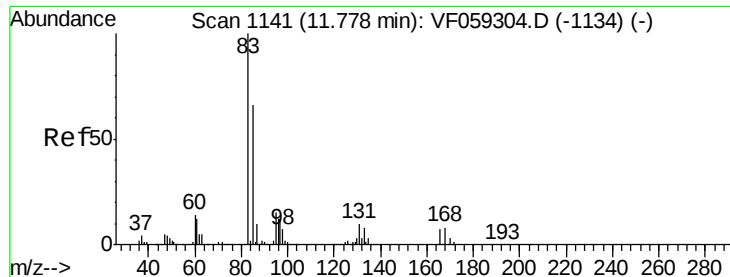
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 3.73 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

CF-2(15.0)RE

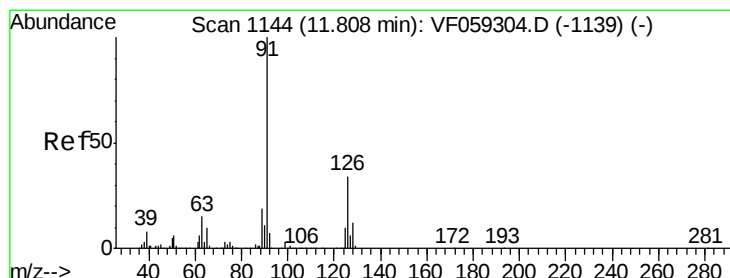
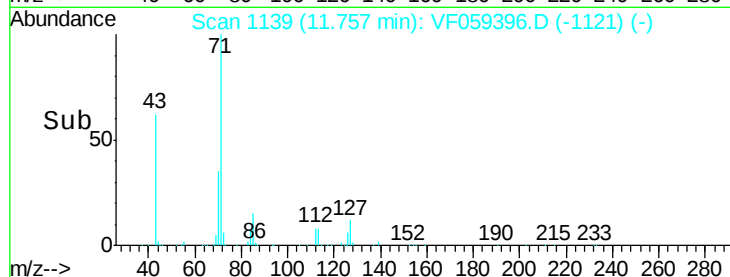
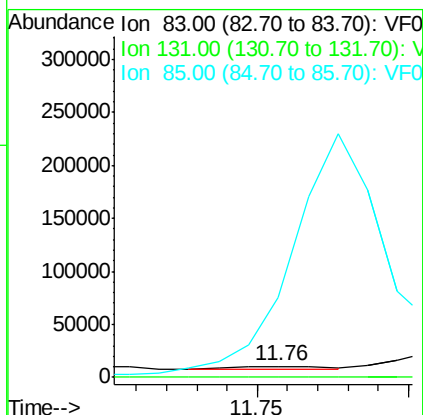
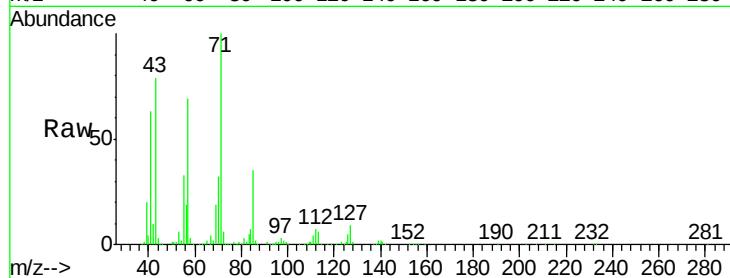
Tot Ion: 83 Resp: 6488

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.6#

85 725.9 32.8 98.4#



#79

2-Chlorotoluene

Concen: 1.18 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VF059396.D

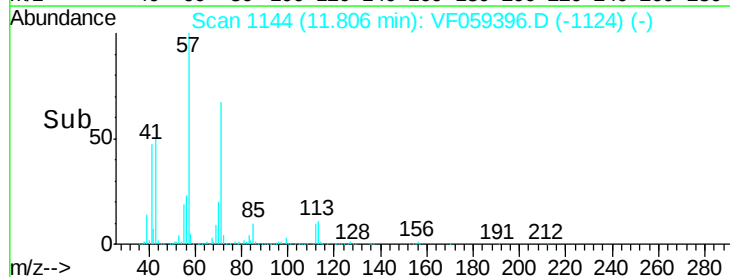
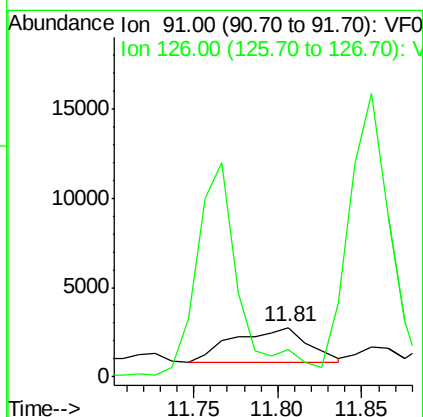
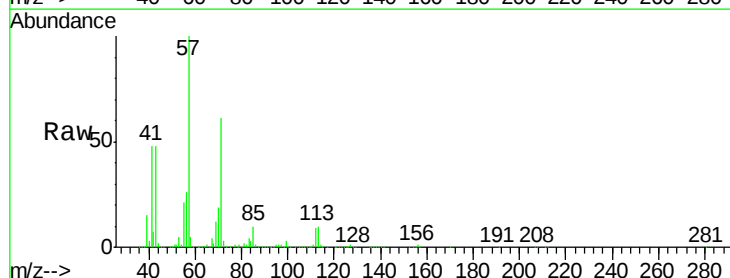
Acq: 2 Jul 2018 19:28

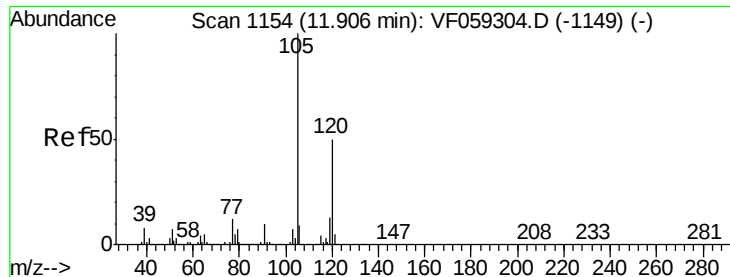
Tgt Ion: 91 Resp: 5963

Ion Ratio Lower Upper

91 100

126 54.2 17.2 51.5#





#80

1,3,5-Trimethylbenzene

Concen: 1.09 ug/l

RT: 11.89 min Scan# 1153

Delta R.T. -0.01 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

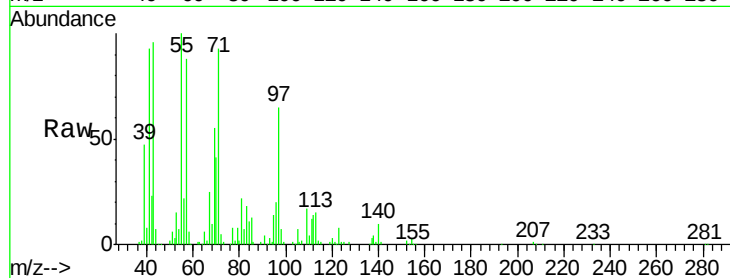
CF-2(15.0)RE

Tot Ion:105 Resp: 6612

Ion Ratio Lower Upper

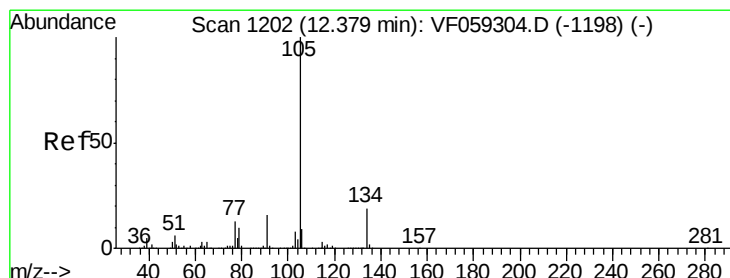
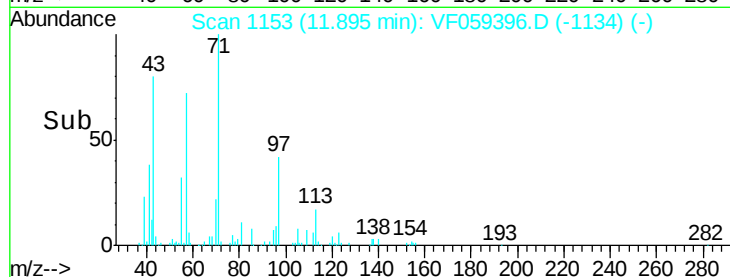
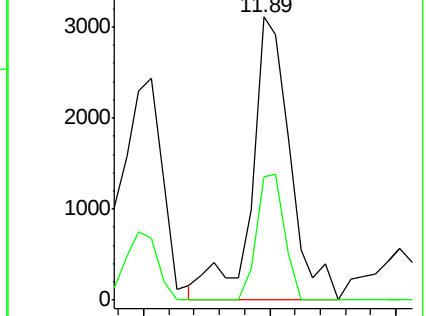
105 100

120 43.6 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 2.28 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF059396.D

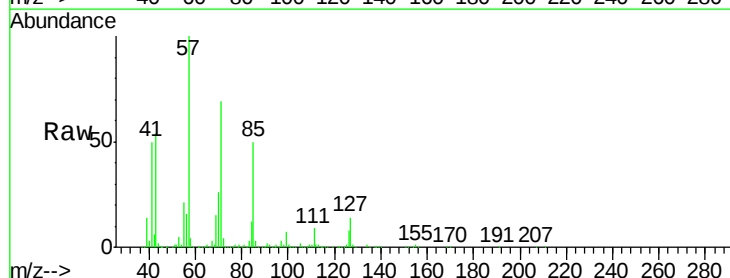
Acq: 2 Jul 2018 19:28

Tgt Ion:105 Resp: 18242

Ion Ratio Lower Upper

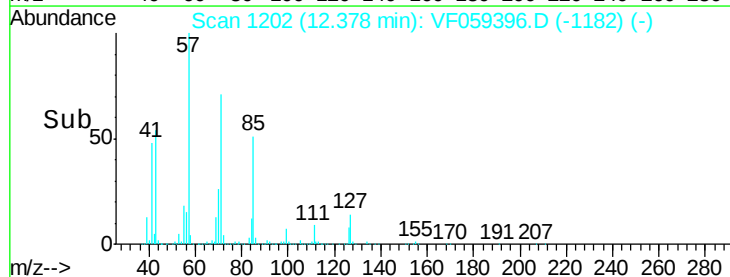
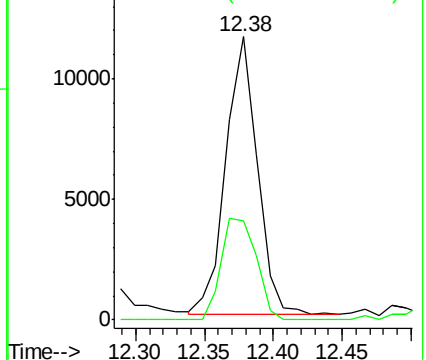
105 100

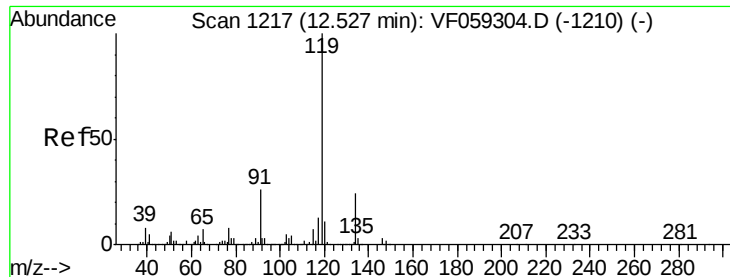
134 34.9 9.4 28.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

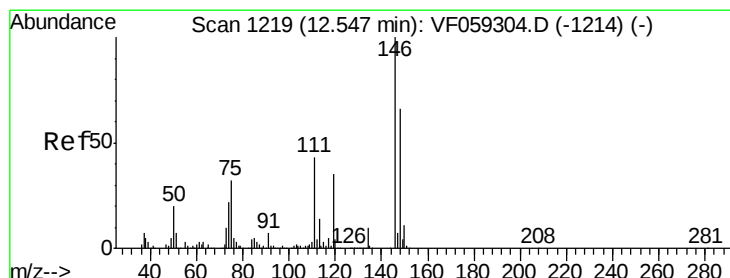
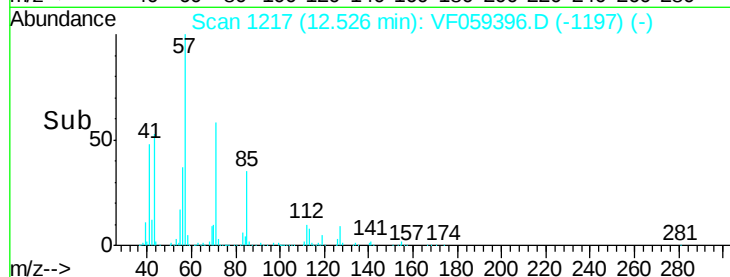
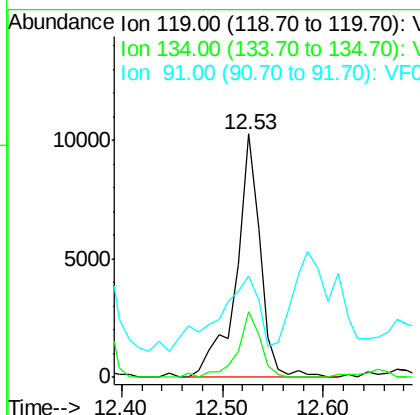
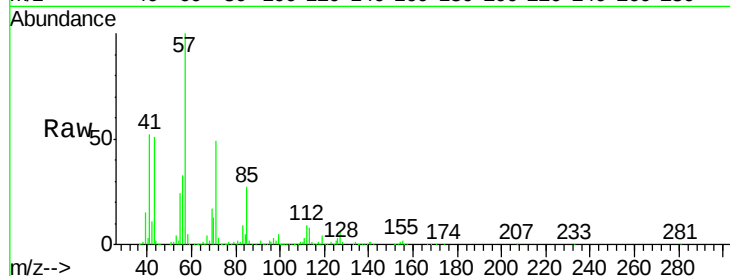




#86  
 p-Isopropyltoluene  
 Concen: 2.55 ug/l  
 RT: 12.53 min Scan# 1217  
 Delta R.T. -0.00 min  
 Lab File: VF059396.D  
 Acq: 2 Jul 2018 19:28

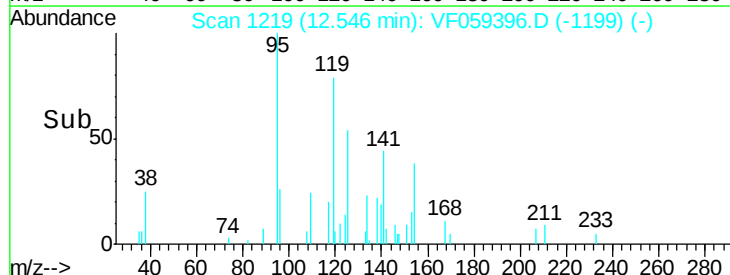
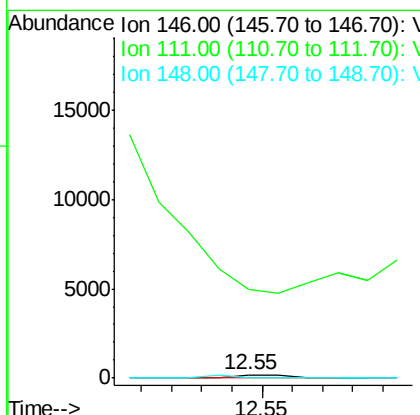
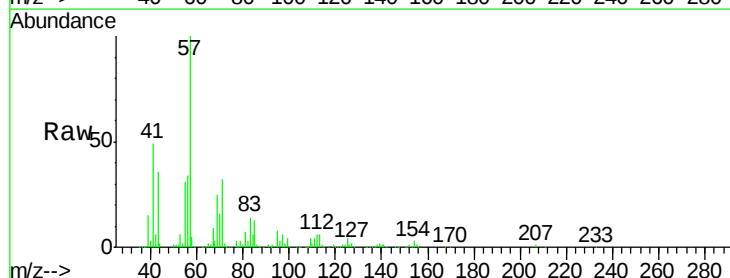
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 CF-2(15.0)RE

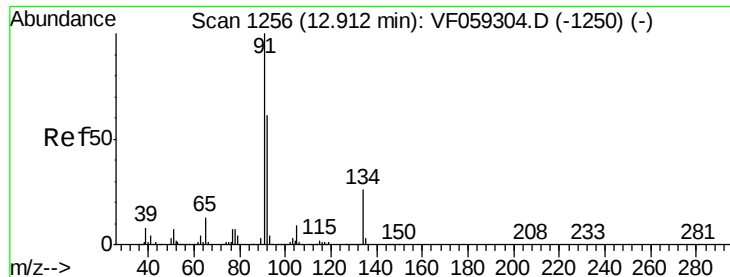
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.1  | 12.2  | 36.4  |
| 91      | 41.8  | 12.9  | 38.6  |



#87  
 1,3-Dichlorobenzene  
 Concen: Below Cal  
 RT: 12.55 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VF059396.D  
 Acq: 2 Jul 2018 19:28

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 146     | 100    |       |       |
| 111     | 2484.5 | 21.4  | 64.2  |
| 148     | 0.0    | 32.8  | 98.4  |





#89

n-Butylbenzene

Concen: 11.63 ug/l

RT: 12.88 min Scan# 1253

Delta R.T. -0.03 min

Lab File: VF059396.D

Acq: 2 Jul 2018 19:28

Instrument :

MSVOA\_F

ClientSampleId :

CF-2(15.0)RE

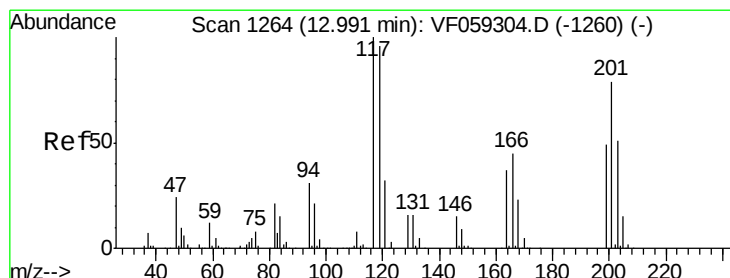
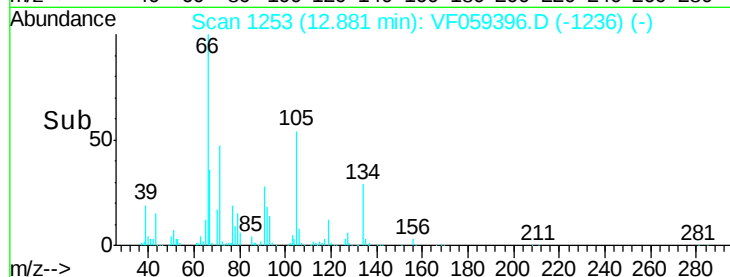
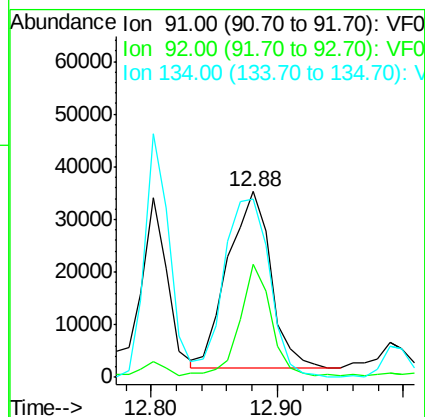
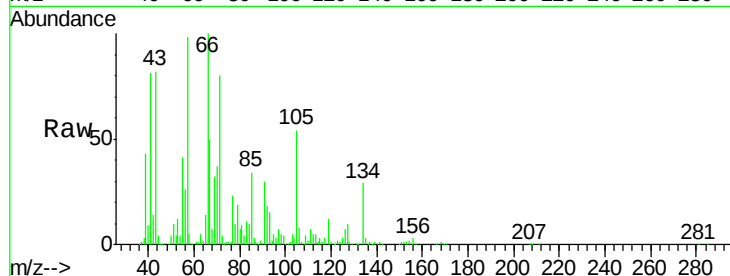
Tot Ion: 91 Resp: 79353

Ion Ratio Lower Upper

91 100

92 60.9 30.3 91.0

134 96.1 12.9 38.7#



#90

Hexachloroethane

Concen: 2.32 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VF059396.D

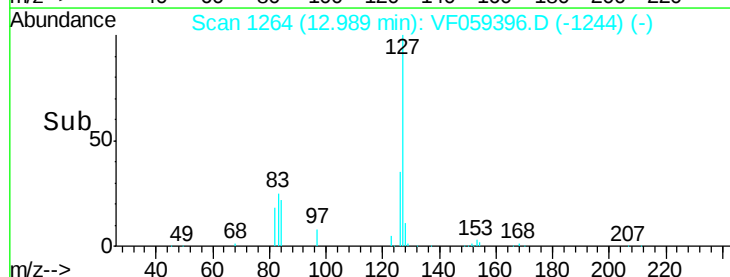
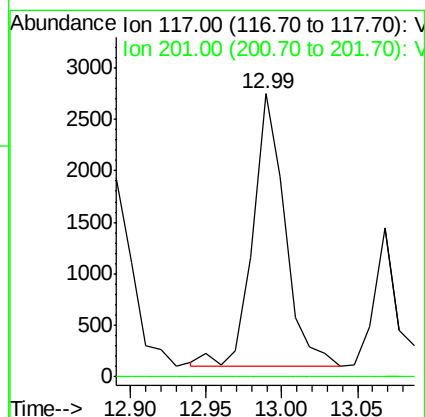
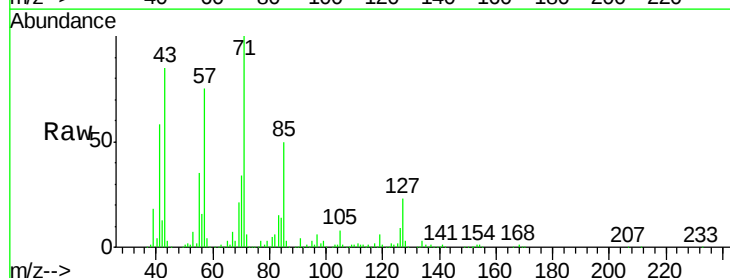
Acq: 2 Jul 2018 19:28

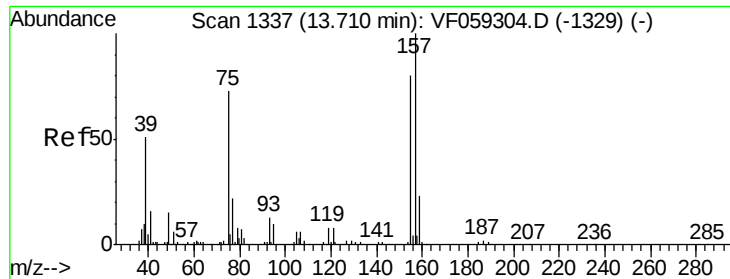
Tgt Ion: 117 Resp: 3893

Ion Ratio Lower Upper

117 100

201 0.0 39.5 118.5#

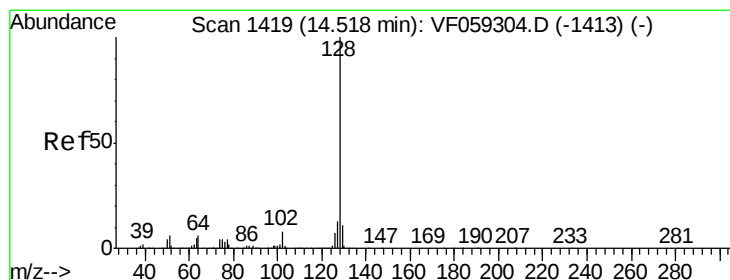
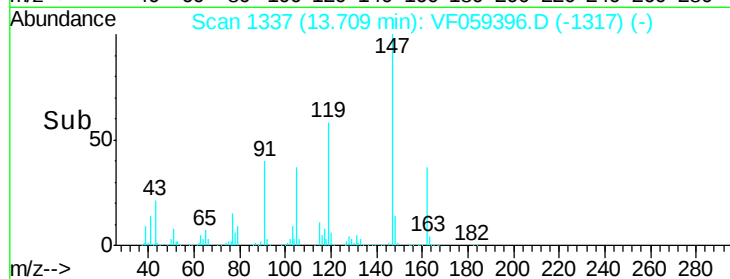
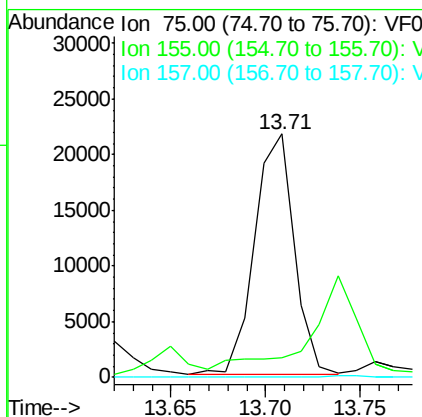
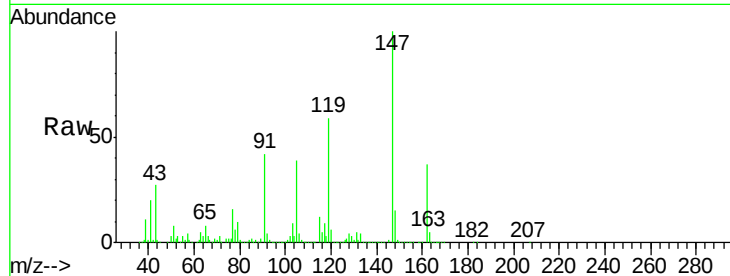




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 81.94 ug/l  
 RT: 13.71 min Scan# 1337  
 Delta R.T. -0.00 min  
 Lab File: VF059396.D  
 Acq: 2 Jul 2018 19:28

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 CF-2(15.0)RE

Tot Ion: 75 Resp: 31630  
 Ion Ratio Lower Upper  
 75 100  
 155 8.0 54.6 163.8#  
 157 0.0 68.7 205.9#



#95  
 Naphthalene  
 Concen: 1.79 ug/l  
 RT: 14.52 min Scan# 1419  
 Delta R.T. -0.00 min  
 Lab File: VF059396.D  
 Acq: 2 Jul 2018 19:28

Tgt Ion:128 Resp: 9594  
 Ion Ratio Lower Upper  
 128 100  
 127 98.3 10.1 15.1#  
 129 69.5 8.8 13.2#

