

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042319\  
 Data File : VF062259.D  
 Acq On : 23 Apr 2019 13:01  
 Operator : FY/SY  
 Sample : VF0423SBS01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0423SBS01

Quant Time: Apr 24 06:06:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F041719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 19 23:52:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 384863   | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 537477   | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 441835   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 271384   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.04  | 65   | 204587   | 57.97 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 115.94% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 262201   | 55.77 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 111.54% |          |
| 50) Toluene-d8              | 7.71  | 98   | 655601   | 55.09 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 110.18% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 277286   | 60.56 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 121.12% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.00 | 85   | 124362   | 21.263  | ug/l   | 94     |
| 3) Chloromethane              | 1.15 | 50   | 106628   | 17.638  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.19 | 62   | 94892    | 18.271  | ug/l   | 97     |
| 5) Bromomethane               | 1.39 | 94   | 58414    | 19.361  | ug/l   | 97     |
| 6) Chloroethane               | 1.44 | 64   | 40293    | 18.558  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 1.55 | 101  | 145988   | 22.126  | ug/l   | 92     |
| 8) Diethyl Ether              | 1.71 | 74   | 27022    | 19.678  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.90 | 101  | 92838    | 20.596  | ug/l   | 96     |
| 10) Methyl Iodide             | 1.98 | 142  | 170009   | 21.231  | ug/l # | 87     |
| 11) Tert butyl alcohol        | 2.71 | 59   | 24403    | 99.480  | ug/l # | 87     |
| 12) 1,1-Dichloroethene        | 1.87 | 96   | 81892    | 19.101  | ug/l   | 90     |
| 13) Acrolein                  | 2.11 | 56   | 10858    | 74.674  | ug/l # | 64     |
| 14) Allyl chloride            | 2.20 | 41   | 142449   | 28.952  | ug/l # | 94     |
| 15) Acrylonitrile             | 3.09 | 53   | 66235    | 88.651  | ug/l   | 97     |
| 16) Acetone                   | 2.35 | 43   | 92775    | 109.985 | ug/l   | 91     |
| 17) Carbon Disulfide          | 1.92 | 76   | 223187   | 18.735  | ug/l   | 94     |
| 18) Methyl Acetate            | 2.46 | 43   | 39859    | 18.227  | ug/l   | 93     |
| 19) Methyl tert-butyl Ether   | 2.55 | 73   | 163688   | 21.625  | ug/l   | 97     |
| 20) Methylene Chloride        | 2.33 | 84   | 100043m  | 20.448  | ug/l   |        |
| 21) trans-1,2-Dichloroethene  | 2.43 | 96   | 84271    | 19.877  | ug/l   | 92     |
| 22) Diisopropyl ether         | 2.94 | 45   | 246224   | 19.564  | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.35 | 43   | 578009   | 96.392  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 3.02 | 63   | 142865   | 20.751  | ug/l   | 97     |
| 25) 2-Butanone                | 4.53 | 43   | 150268   | 89.092  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 3.78 | 77   | 77570    | 22.316  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 3.65 | 96   | 108354   | 19.735  | ug/l   | 99     |
| 28) Bromochloromethane        | 3.91 | 49   | 64102    | 19.436  | ug/l # | 88     |
| 29) Tetrahydrofuran           | 4.27 | 42   | 65621    | 85.954  | ug/l   | 92     |
| 30) Chloroform                | 4.06 | 83   | 170517   | 20.153  | ug/l   | 100    |
| 31) Cyclohexane               | 3.89 | 56   | 144378   | 17.499  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 4.30 | 97   | 144716   | 23.366  | ug/l # | 88     |
| 36) 1,1-Dichloropropene       | 4.48 | 75   | 128586   | 19.954  | ug/l   | 99     |
| 37) Ethyl Acetate             | 4.31 | 43   | 57422    | 18.884  | ug/l # | 97     |
| 38) Carbon Tetrachloride      | 4.20 | 117  | 131783m  | 23.104  | ug/l   |        |

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Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0423SBS01

Quant Time: Apr 24 06:06:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F041719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 19 23:52:01 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.64  | 83   | 156356   | 20.265  | ug/l   | 98       |
| 40) Benzene                    | 4.83  | 78   | 328298   | 19.423  | ug/l   | 100      |
| 41) Methacrylonitrile          | 4.94  | 41   | 33732    | 19.231  | ug/l   | 91       |
| 42) 1,2-Dichloroethane         | 5.14  | 62   | 94496    | 21.148  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 7.12  | 43   | 60318    | 18.860  | ug/l # | 99       |
| 44) Trichloroethene            | 5.69  | 130  | 108805   | 23.822  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 6.41  | 63   | 76449    | 20.533  | ug/l   | 96       |
| 46) Dibromomethane             | 6.27  | 93   | 55653    | 22.467  | ug/l   | 95       |
| 47) Bromodichloromethane       | 6.56  | 83   | 127164   | 22.749  | ug/l   | 95       |
| 48) Methyl methacrylate        | 6.89  | 41   | 40447    | 19.244  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 6.88  | 88   | 10343    | 429.090 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 8.41  | 43   | 246686   | 103.703 | ug/l   | 98       |
| 52) Toluene                    | 7.78  | 92   | 189839   | 21.307  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene      | 8.43  | 75   | 97803    | 23.295  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 7.47  | 75   | 125094   | 22.027  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 8.64  | 97   | 56182    | 22.509  | ug/l   | 93       |
| 56) Ethyl methacrylate         | 8.76  | 69   | 62050    | 21.866  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.01  | 76   | 85538    | 21.223  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 7.46  | 63   | 83599    | 101.467 | ug/l   | 94       |
| 59) 2-Hexanone                 | 9.63  | 43   | 160891   | 108.539 | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.87  | 129  | 89024    | 23.983  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.13  | 107  | 65042    | 23.130  | ug/l   | 98       |
| 64) Tetrachloroethene          | 8.32  | 164  | 93086    | 23.339  | ug/l   | 97       |
| 65) Chlorobenzene              | 9.94  | 112  | 206687   | 21.939  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.07 | 131  | 98601    | 22.349  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.04 | 91   | 370969   | 21.654  | ug/l   | 96       |
| 68) m/p-Xylenes                | 10.27 | 106  | 287138   | 45.531  | ug/l   | 100      |
| 69) o-Xylene                   | 10.82 | 106  | 156104   | 22.295  | ug/l   | 99       |
| 70) Styrene                    | 10.90 | 104  | 226335   | 22.906  | ug/l   | 99       |
| 71) Bromoform                  | 10.88 | 173  | 57071    | 24.500  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.22 | 105  | 469587   | 20.144  | ug/l   | 99       |
| 74) N-amyl acetate             | 11.45 | 43   | 99135    | 16.449  | ug/l # | 92       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.78 | 83   | 75872    | 18.925  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.87 | 75   | 51433    | 18.647  | ug/l # | 1        |
| 77) Bromobenzene               | 11.59 | 156  | 111765   | 22.380  | ug/l   | 90       |
| 78) n-propylbenzene            | 11.68 | 91   | 489474   | 19.904  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 295917   | 19.837  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 11.90 | 105  | 399191   | 20.560  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.94 | 75   | 25630m   | 18.220  | ug/l   |          |
| 82) 4-Chlorotoluene            | 11.97 | 91   | 292780   | 20.308  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.20 | 119  | 406204   | 20.231  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.27 | 105  | 379064   | 20.175  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 12.38 | 105  | 523679   | 20.089  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.53 | 119  | 461641   | 20.877  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.55 | 146  | 203175   | 21.924  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.63 | 146  | 196161   | 21.945  | ug/l   | 97       |
| 89) n-Butylbenzene             | 12.90 | 91   | 435398   | 20.924  | ug/l   | 97       |
| 90) Hexachloroethane           | 12.98 | 117  | 112891   | 19.881  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 13.00 | 146  | 196334   | 21.941  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.69 | 75   | 14339    | 18.204  | ug/l   | 88       |

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Sample : VF0423SBS01  
Misc : 5.00g/5mL/MSVOA F/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

Quant Time: Apr 24 06:06:00 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82F041719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 19 23:52:01 2019  
Response via : Initial Calibration

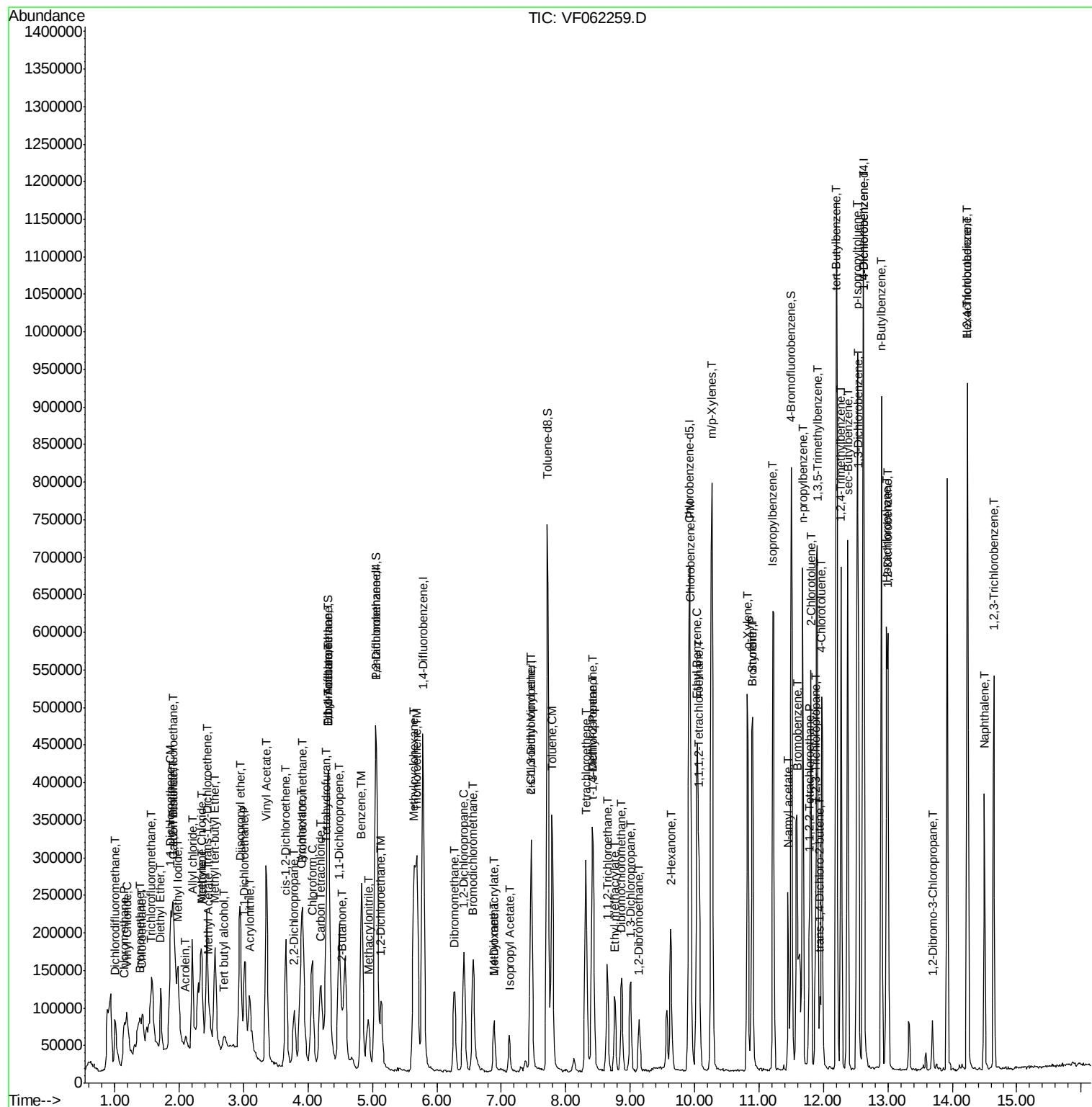
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.24 | 180  | 168451   | 22.499 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.23 | 225  | 118593   | 23.101 | ug/l  | 98       |
| 95) Naphthalene            | 14.50 | 128  | 253614   | 19.373 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.64 | 180  | 163190   | 22.704 | ug/l  | 99       |

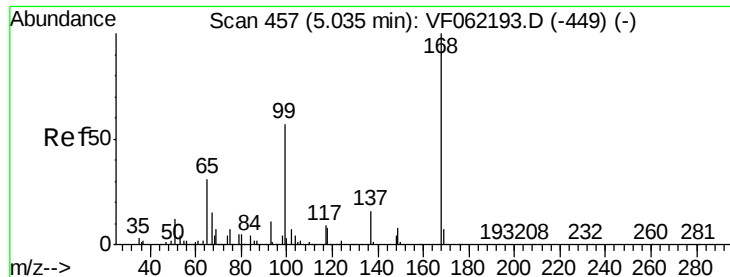
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 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

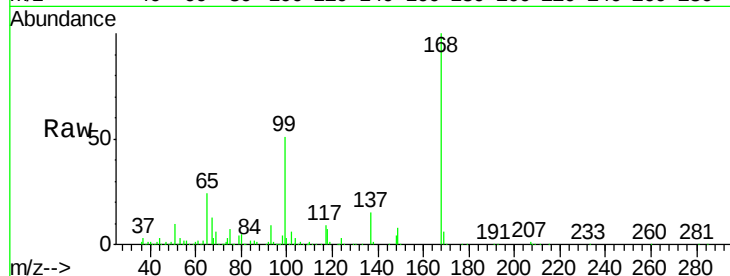
VF0423SBS01

Tot Ion:168 Resp: 384863

Ion Ratio Lower Upper

168 100

99 50.7 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.06

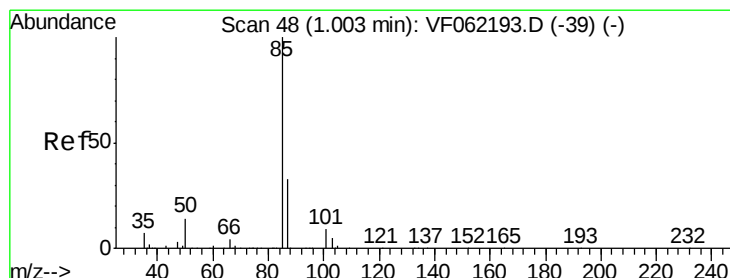
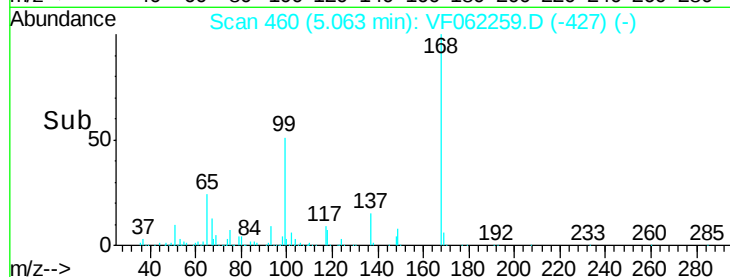
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 21.263 ug/l

RT: 1.00 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062259.D

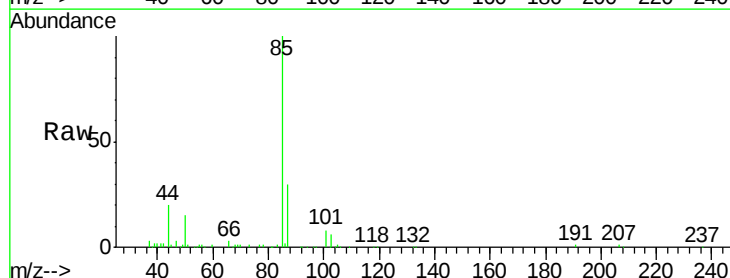
Acq: 23 Apr 2019 13:01

Tgt Ion: 85 Resp: 124362

Ion Ratio Lower Upper

85 100

87 29.1 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.00

40000

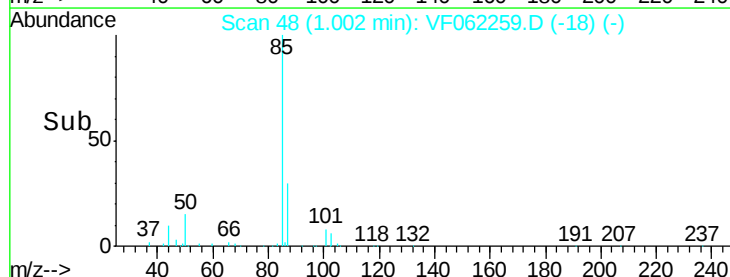
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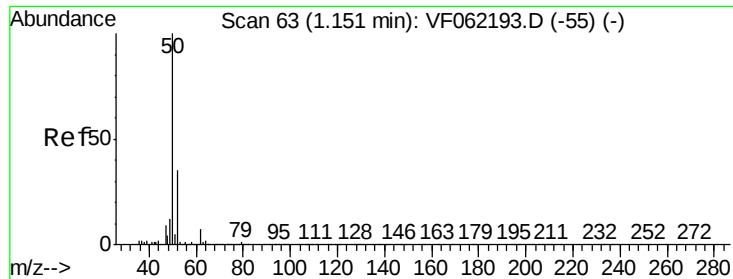
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10000

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Time-->





#3

Chloromethane

Concen: 17.638 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.00 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

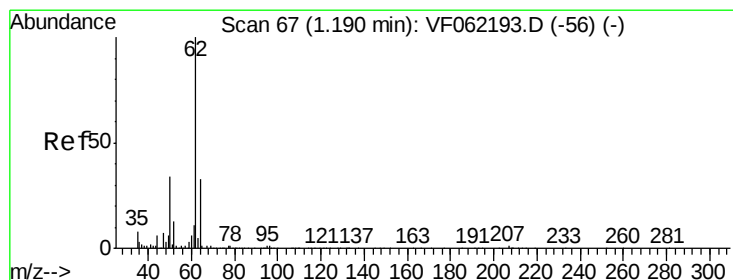
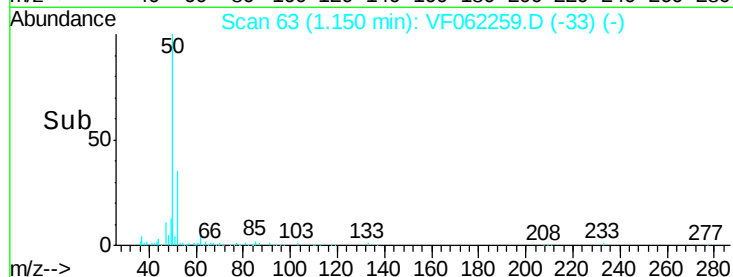
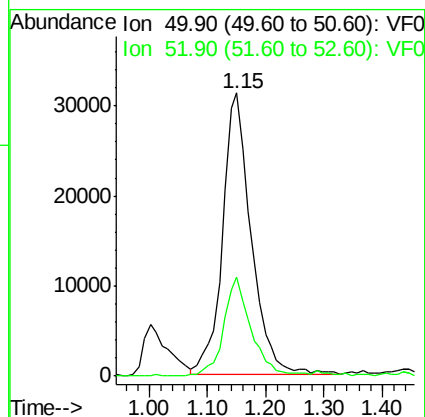
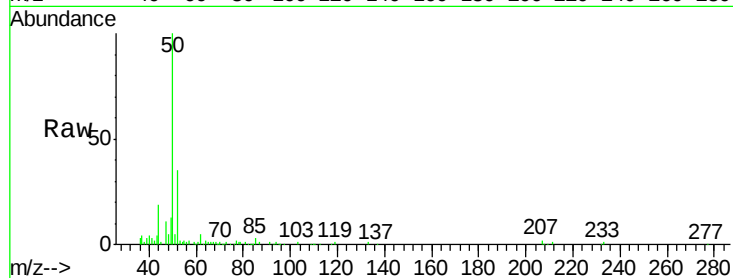
VF0423SBS01

Tot Ion: 50 Resp: 106628

Ion Ratio Lower Upper

50 100

52 34.7 27.0 40.4



#4

Vinyl Chloride

Concen: 18.271 ug/l

RT: 1.19 min Scan# 67

Delta R.T. -0.00 min

Lab File: VF062259.D

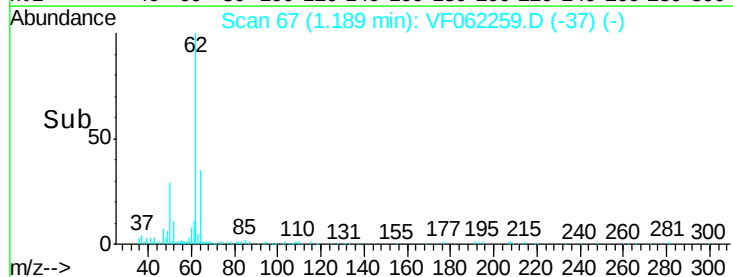
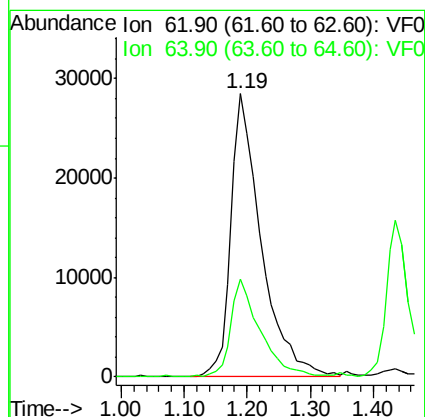
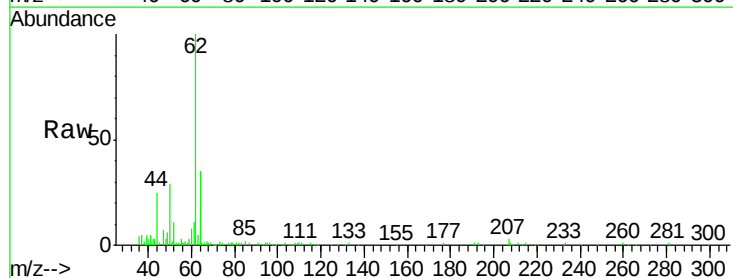
Acq: 23 Apr 2019 13:01

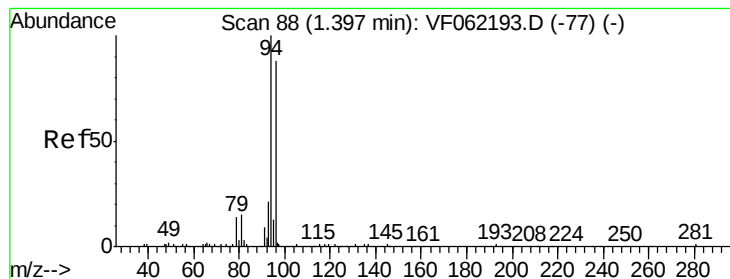
Tgt Ion: 62 Resp: 94892

Ion Ratio Lower Upper

62 100

64 34.7 26.2 39.4





#5

Bromomethane

Concen: 19.361 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

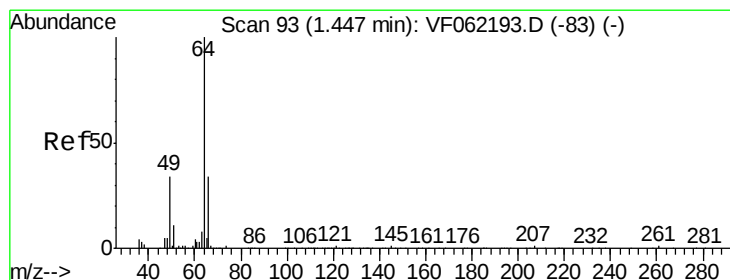
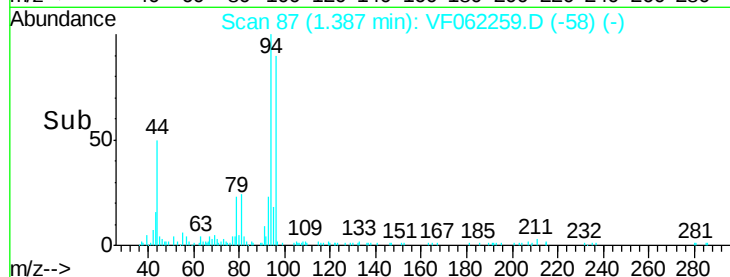
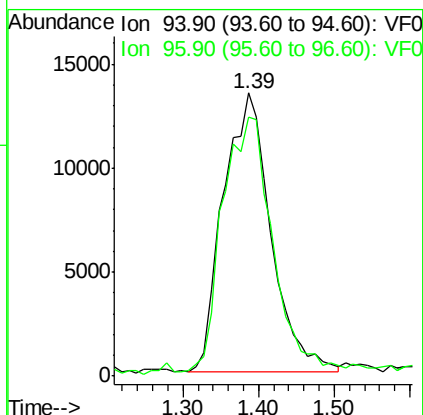
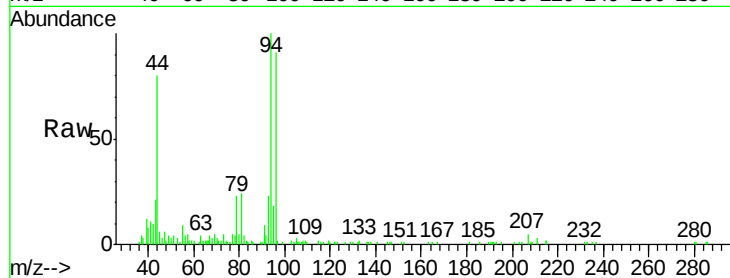
VF0423SBS01

Tot Ion: 94 Resp: 58414

Ion Ratio Lower Upper

94 100

96 91.0 70.2 105.4



#6

Chloroethane

Concen: 18.558 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062259.D

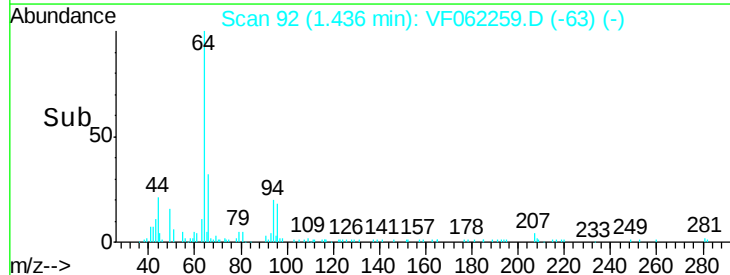
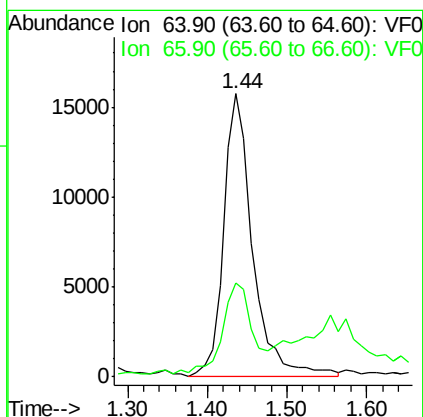
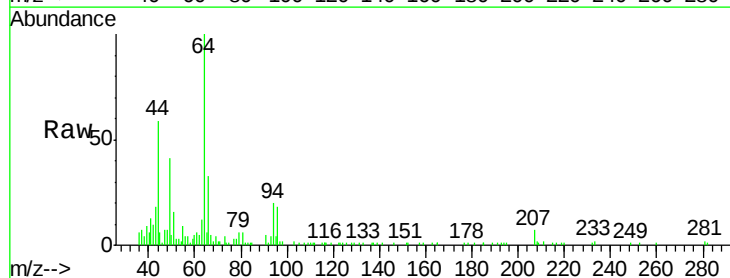
Acq: 23 Apr 2019 13:01

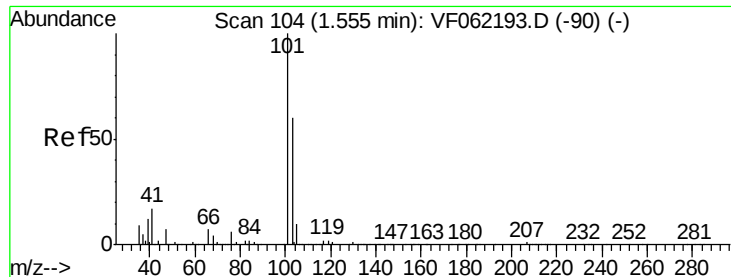
Tgt Ion: 64 Resp: 40293

Ion Ratio Lower Upper

64 100

66 31.7 27.0 40.4



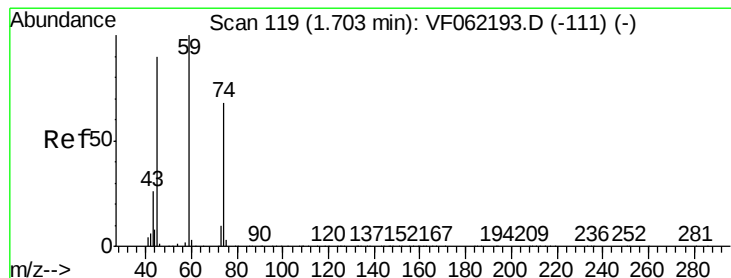
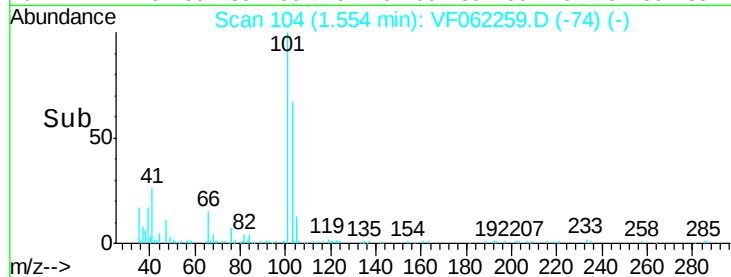
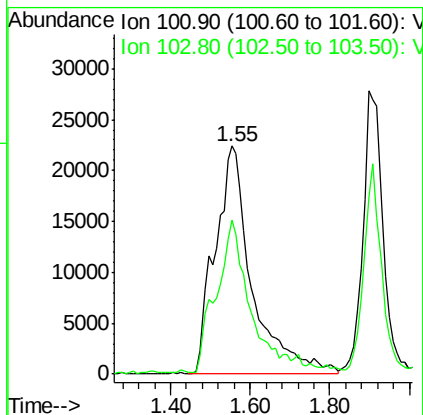
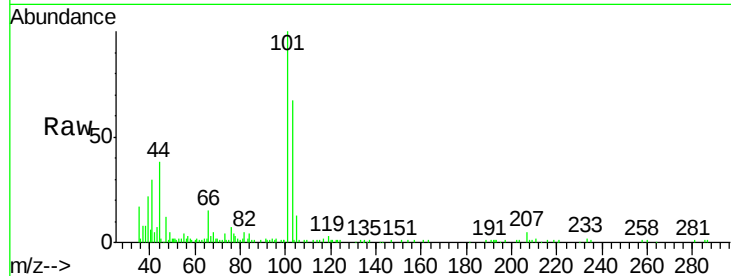


#7

Trichlorofluoromethane  
Concen: 22.126 ug/l  
RT: 1.55 min Scan# 104  
Delta R.T. -0.00 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

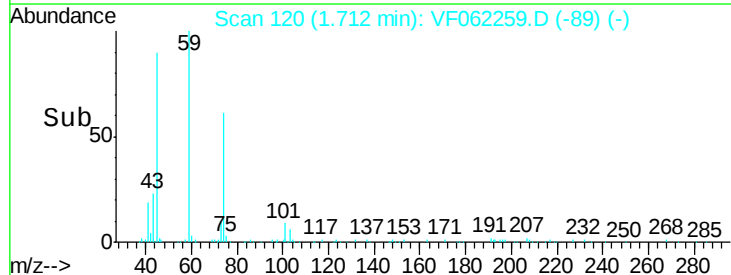
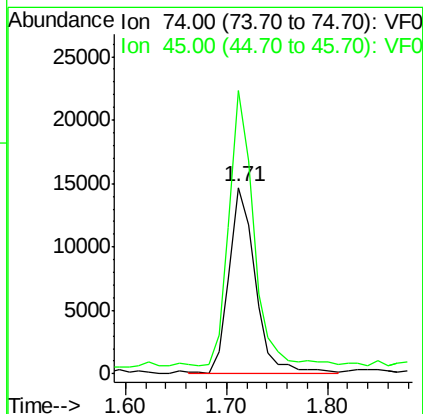
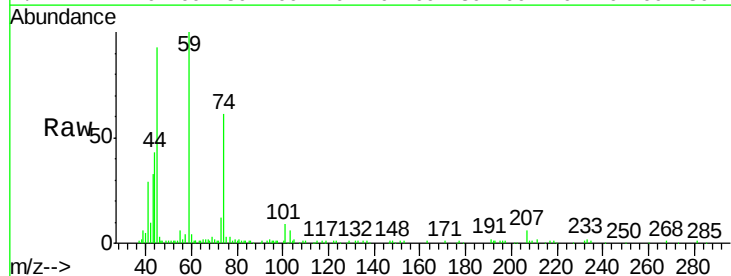
Tot Ion:101 Resp: 145988  
Ion Ratio Lower Upper  
101 100  
103 66.3 48.2 72.4

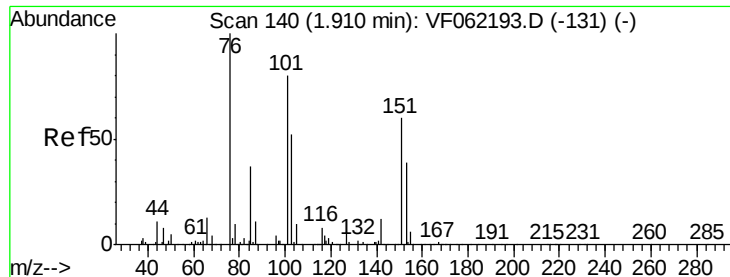


#8

Diethyl Ether  
Concen: 19.678 ug/l  
RT: 1.71 min Scan# 120  
Delta R.T. 0.01 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion: 74 Resp: 27022  
Ion Ratio Lower Upper  
74 100  
45 136.9 70.0 210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.596 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

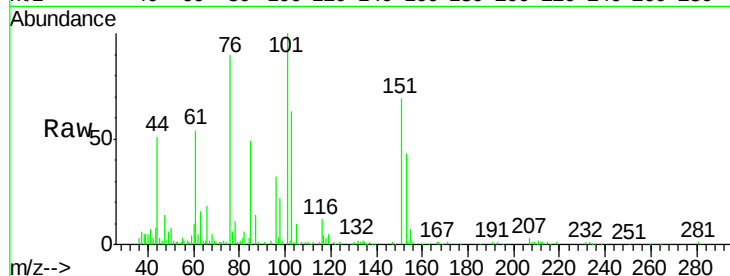
Tot Ion:101 Resp: 92838

Ion Ratio Lower Upper

101 100

85 47.9 35.3 52.9

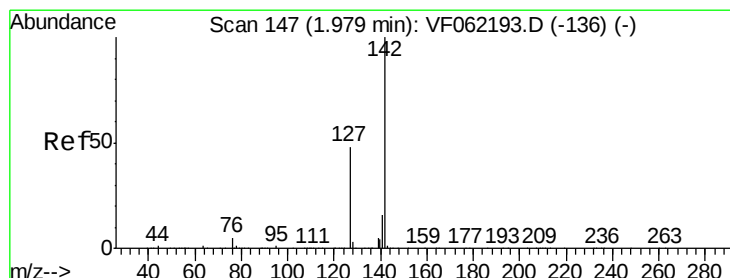
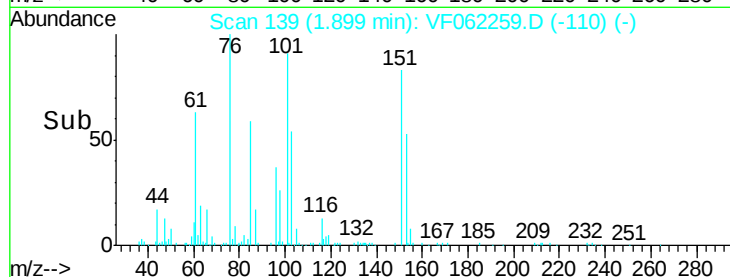
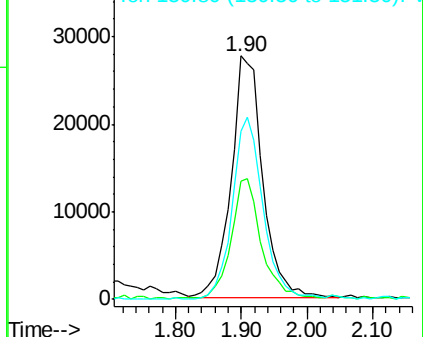
151 74.1 57.5 86.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 21.231 ug/l

RT: 1.98 min Scan# 147

Delta R.T. -0.00 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

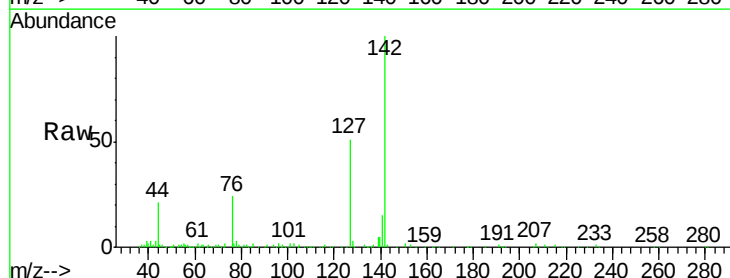
Tgt Ion:142 Resp: 170009

Ion Ratio Lower Upper

142 100

127 52.0 33.0 49.4#

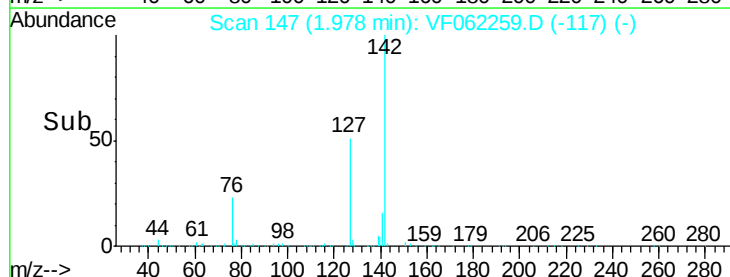
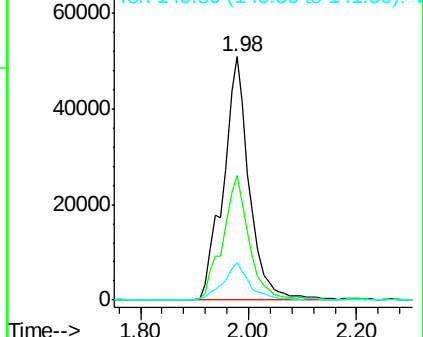
141 15.4 12.7 19.1

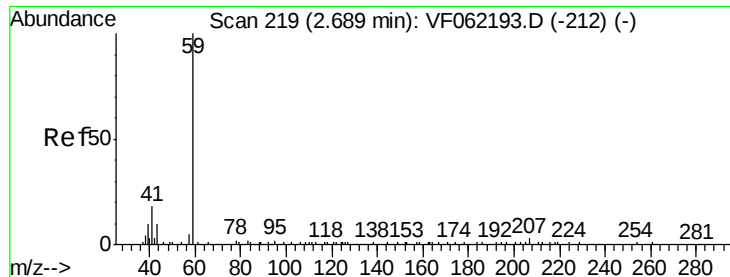


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



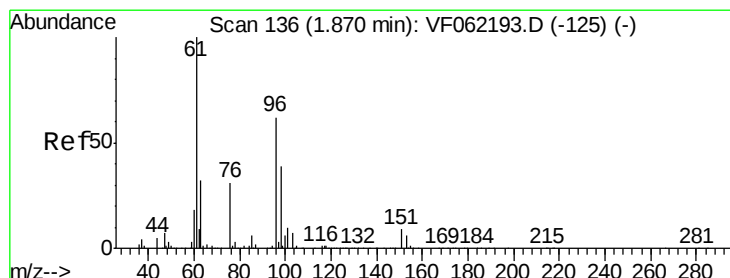
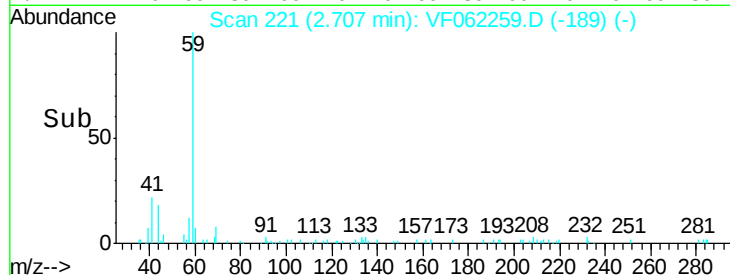
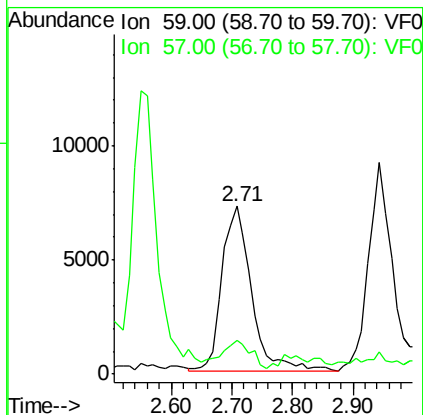
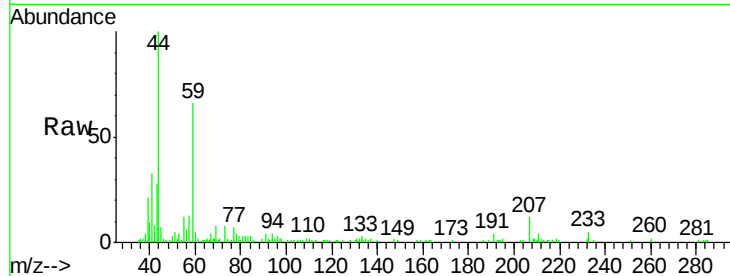


#11

Tert butyl alcohol  
Concen: 99.480 ug/l  
RT: 2.71 min Scan# 221  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

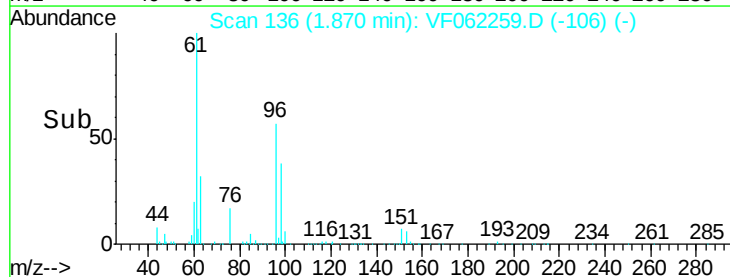
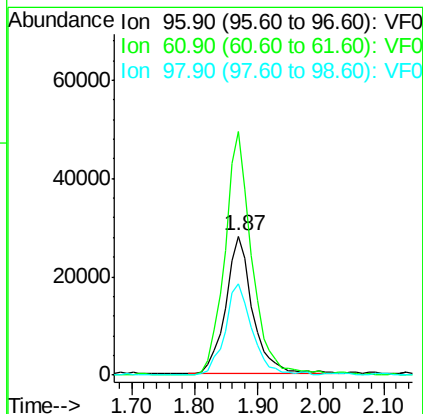
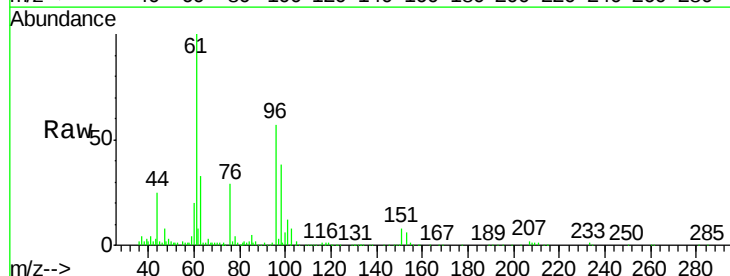
Tot Ion: 59 Resp: 24403  
Ion Ratio Lower Upper  
59 100  
57 16.6 9.3 13.9#

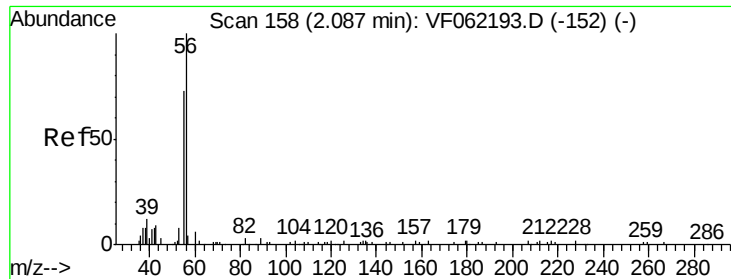


#12

1,1-Dichloroethene  
Concen: 19.101 ug/l  
RT: 1.87 min Scan# 136  
Delta R.T. -0.00 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion: 96 Resp: 81892  
Ion Ratio Lower Upper  
96 100  
61 177.3 129.1 193.7  
98 66.2 50.0 75.0





#13

Acrolein

Concen: 74.674 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

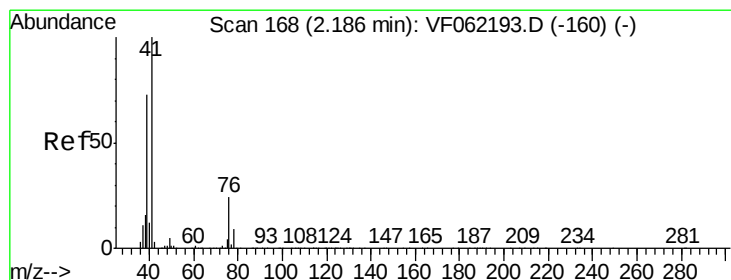
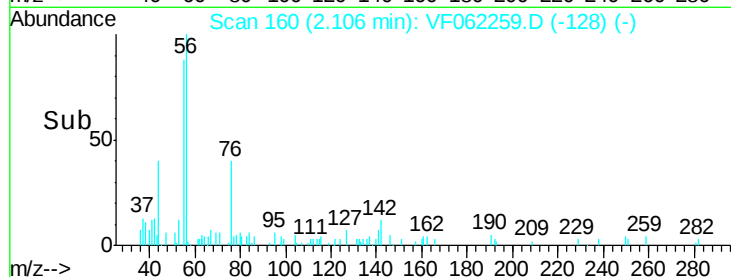
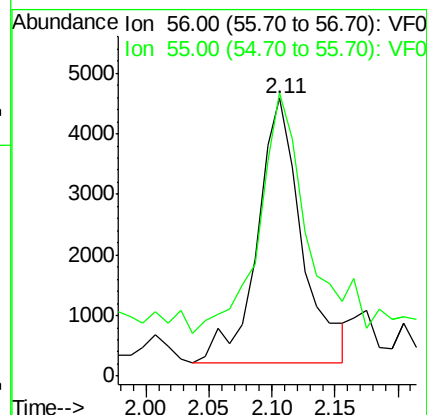
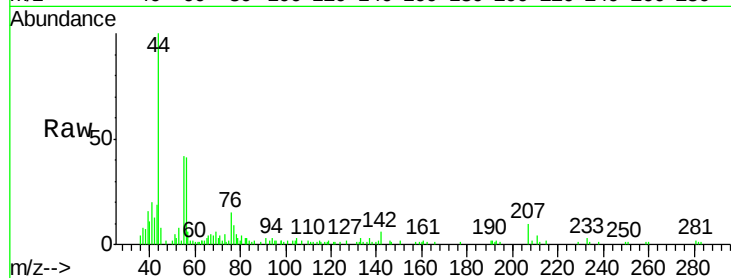
VF0423SBS01

Tot Ion: 56 Resp: 10858

Ion Ratio Lower Upper

56 100

55 101.4 57.4 86.0#



#14

Allyl chloride

Concen: 28.952 ug/l

RT: 2.20 min Scan# 170

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

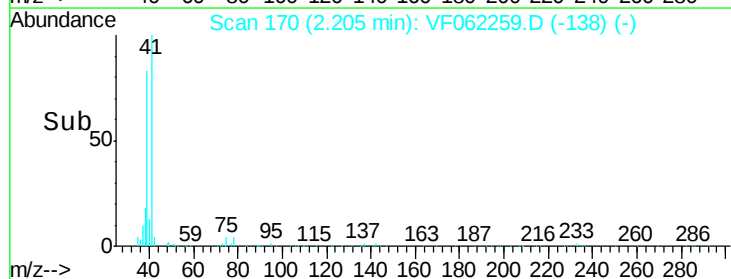
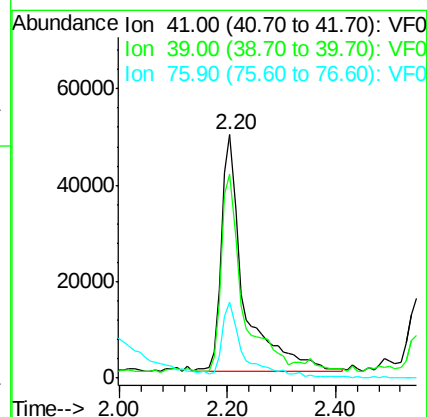
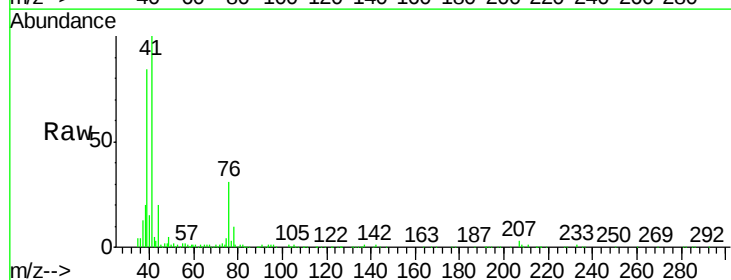
Tgt Ion: 41 Resp: 142449

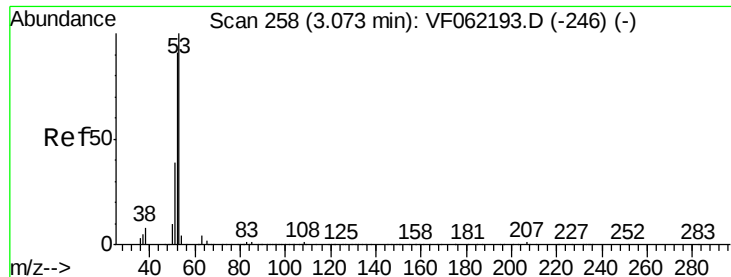
Ion Ratio Lower Upper

41 100

39 78.4 60.0 90.0

76 31.6 20.6 30.8#





#15

Acrylonitrile

Concen: 88.651 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

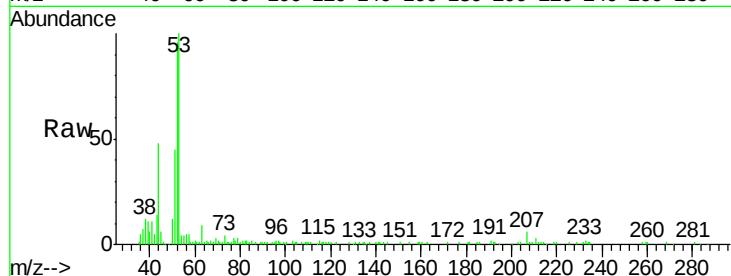
MSVOA\_F

ClientSampleId :

VF0423SBS01

Tot Ion: 53 Resp: 66235

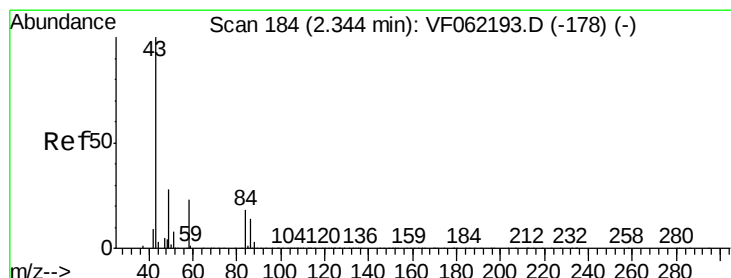
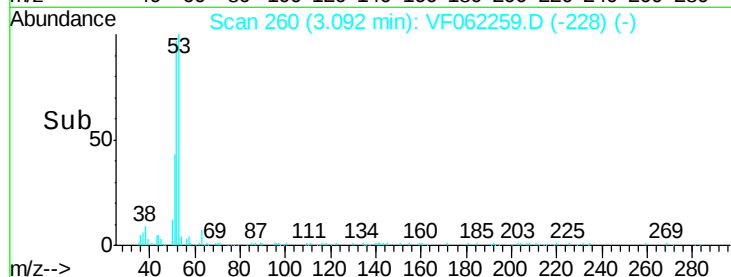
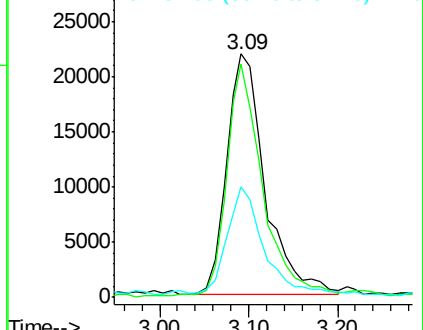
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 88.8  | 69.5  | 104.3 |
| 51  | 42.9  | 31.8  | 47.8  |



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 109.985 ug/l

RT: 2.35 min Scan# 185

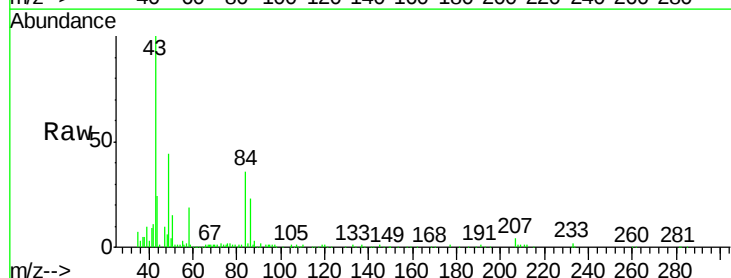
Delta R.T. 0.01 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

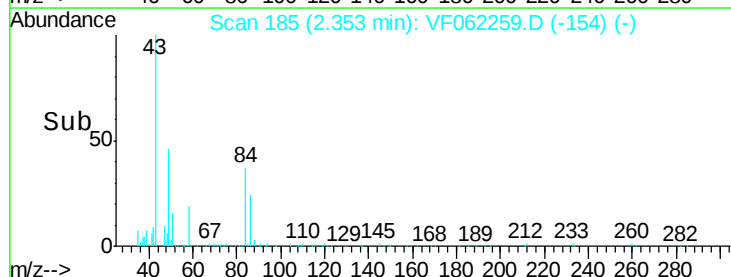
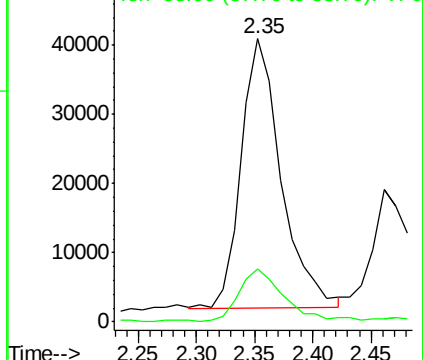
Tgt Ion: 43 Resp: 92775

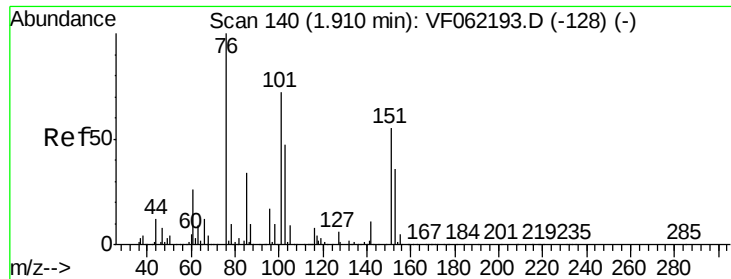
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 19.1  | 18.8  | 28.2  |



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 18.735 ug/l

RT: 1.92 min Scan# 141

Delta R.T. 0.01 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

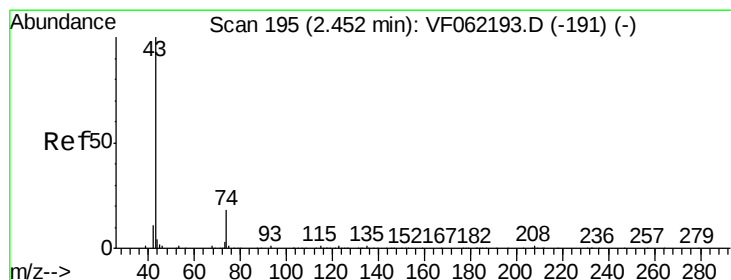
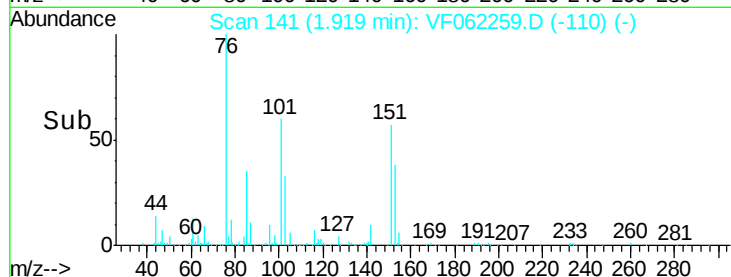
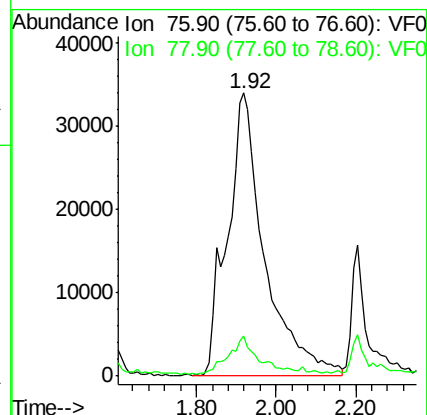
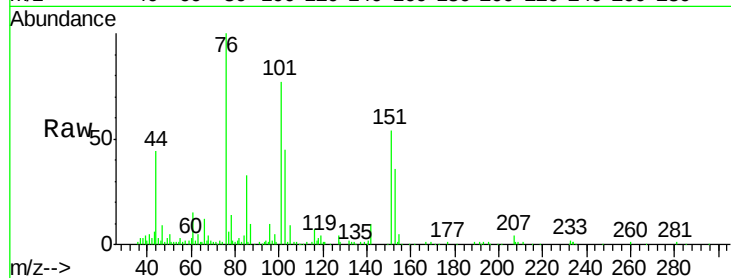
VF0423SBS01

Tot Ion: 76 Resp: 223187

Ion Ratio Lower Upper

76 100

78 13.0 8.7 13.1



#18

Methyl Acetate

Concen: 18.227 ug/l

RT: 2.46 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF062259.D

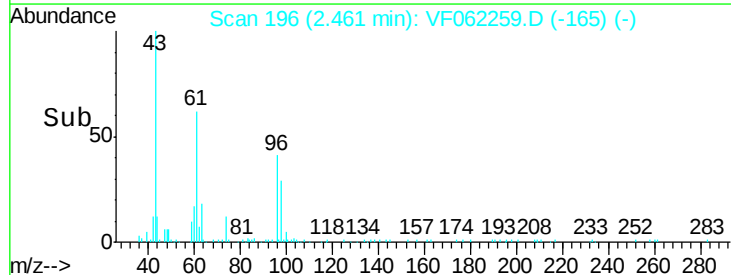
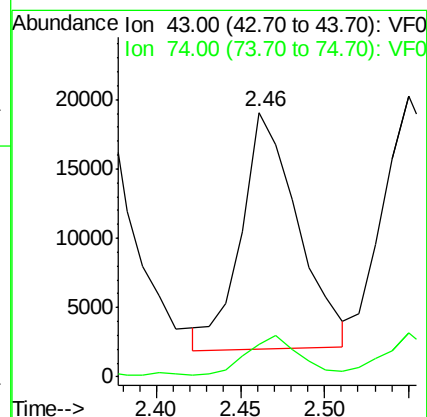
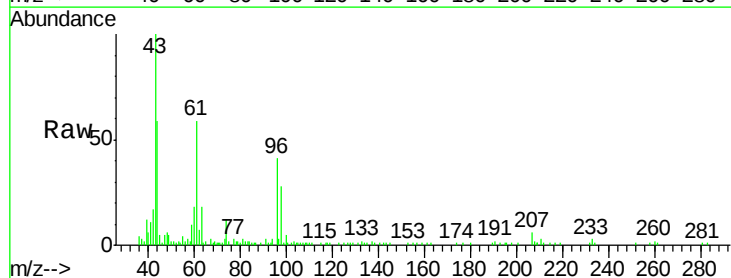
Acq: 23 Apr 2019 13:01

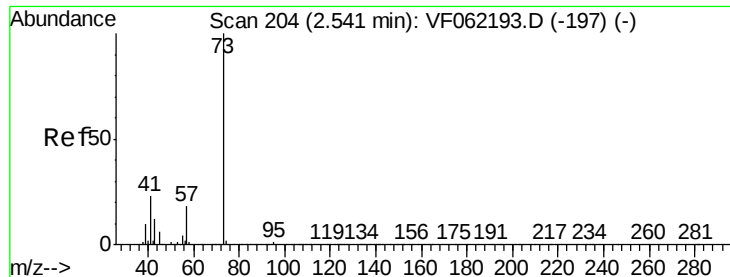
Tgt Ion: 43 Resp: 39859

Ion Ratio Lower Upper

43 100

74 15.0 14.5 21.7



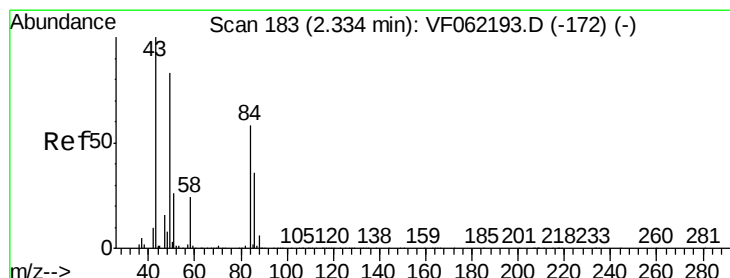
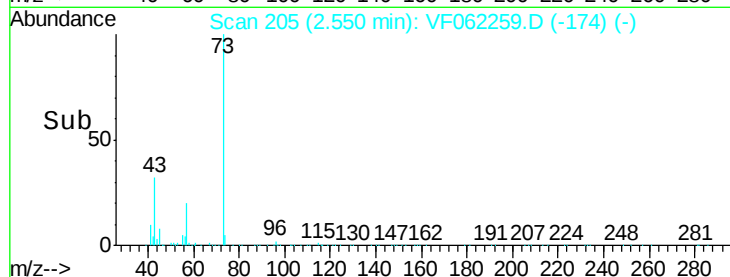
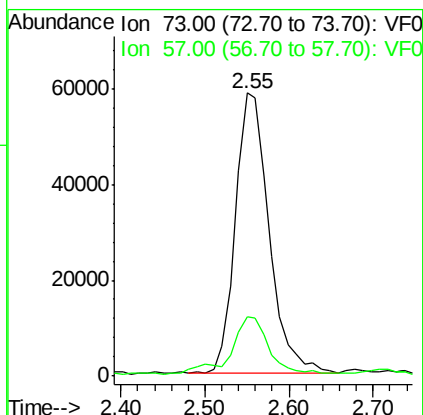
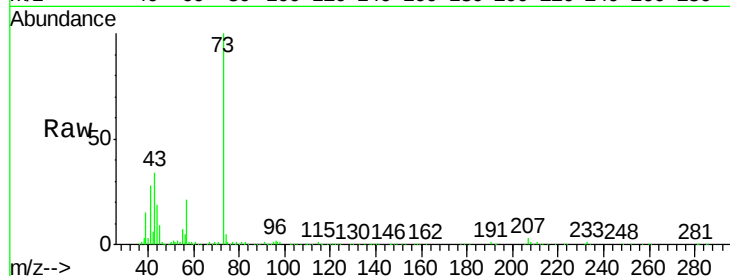


#19

Methyl tert-butyl Ether  
 Concen: 21.625 ug/l  
 RT: 2.55 min Scan# 205  
 Delta R.T. 0.01 min  
 Lab File: VF062259.D  
 Acq: 23 Apr 2019 13:01

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0423SBS01

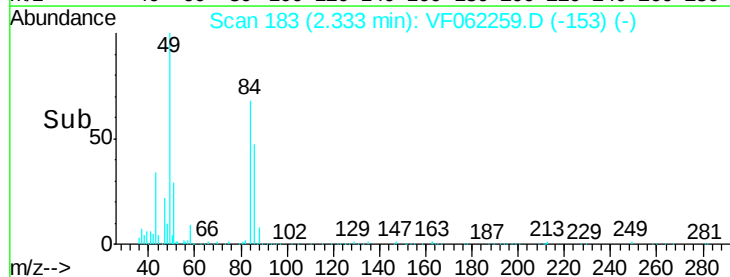
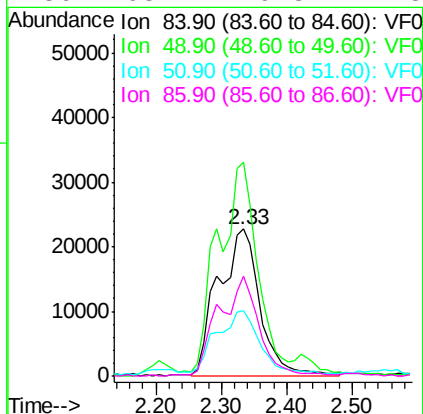
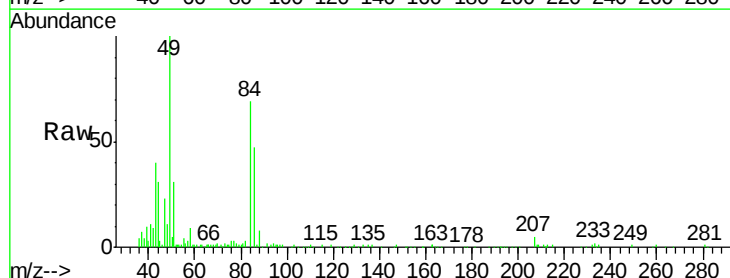
Tot Ion: 73 Resp: 163688  
 Ion Ratio Lower Upper  
 73 100  
 57 20.1 15.1 22.7

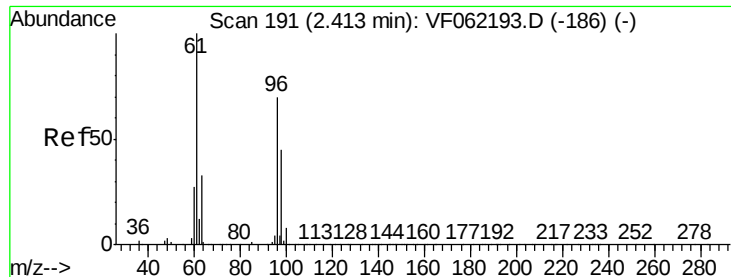


#20

Methylene Chloride  
 Concen: 20.448 ug/l m  
 RT: 2.33 min Scan# 183  
 Delta R.T. -0.00 min  
 Lab File: VF062259.D  
 Acq: 23 Apr 2019 13:01

Tgt Ion: 84 Resp: 100043  
 Ion Ratio Lower Upper  
 84 100  
 49 145.6 114.0 171.0  
 51 44.6 37.0 55.4  
 86 68.1 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 19.877 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

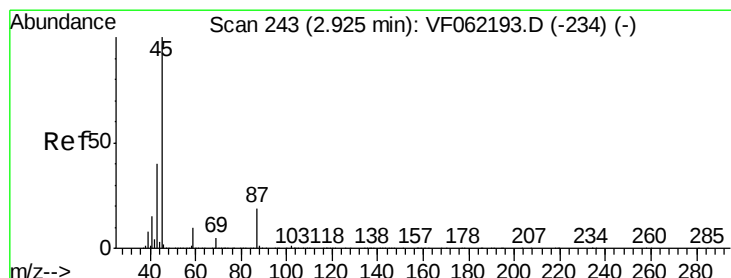
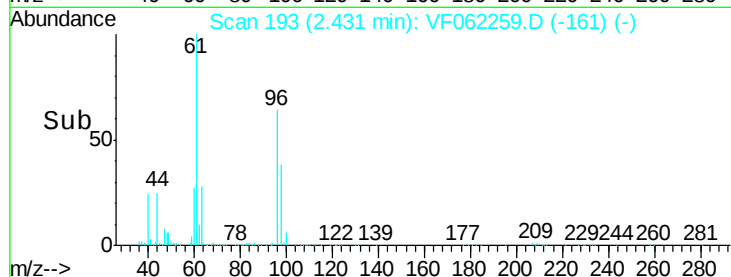
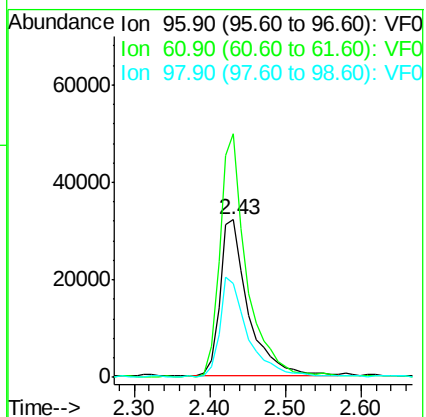
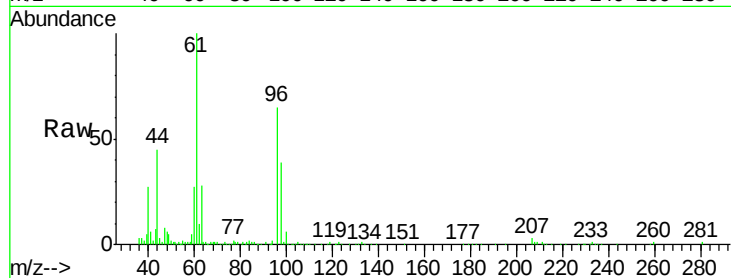
Tot Ion: 96 Resp: 84271

Ion Ratio Lower Upper

96 100

61 154.8 114.6 172.0

98 59.3 51.2 76.8



#22

Diisopropyl ether

Concen: 19.564 ug/l

RT: 2.94 min Scan# 245

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Tgt Ion: 45 Resp: 246224

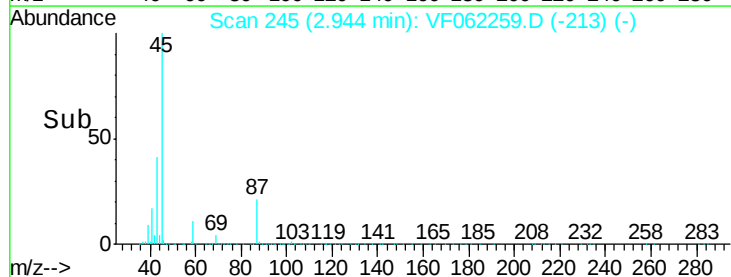
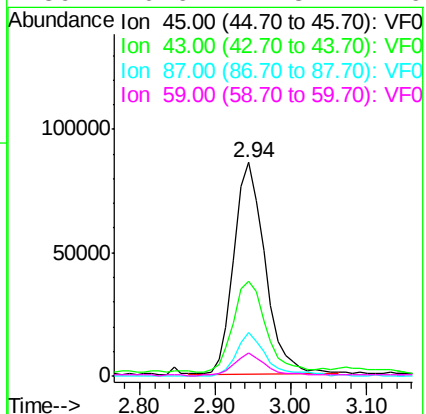
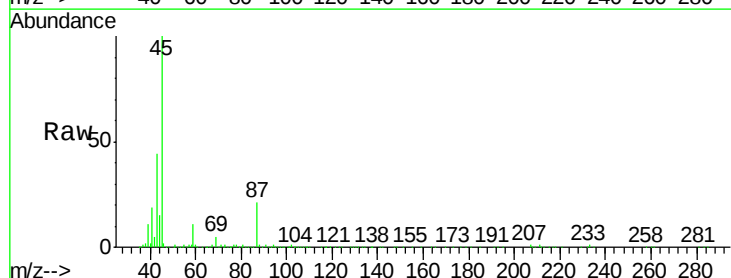
Ion Ratio Lower Upper

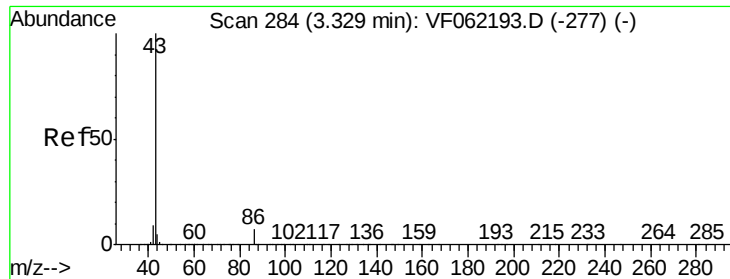
45 100

43 42.2 32.8 49.2

87 20.8 15.2 22.8

59 10.6 7.8 11.6





#23

Vinyl Acetate

Concen: 96.392 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

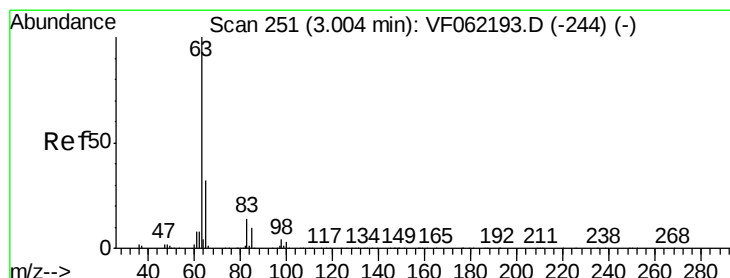
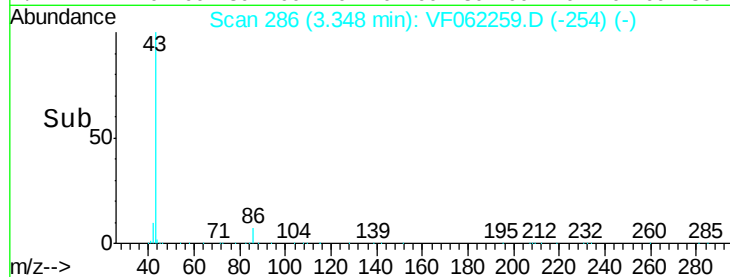
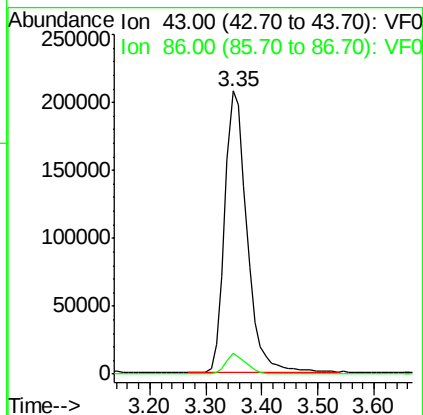
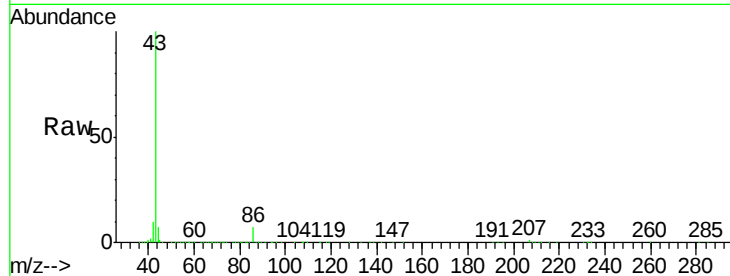
VF0423SBS01

Tot Ion: 43 Resp: 578009

Ion Ratio Lower Upper

43 100

86 7.3 5.9 8.9



#24

1,1-Dichloroethane

Concen: 20.751 ug/l

RT: 3.02 min Scan# 253

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

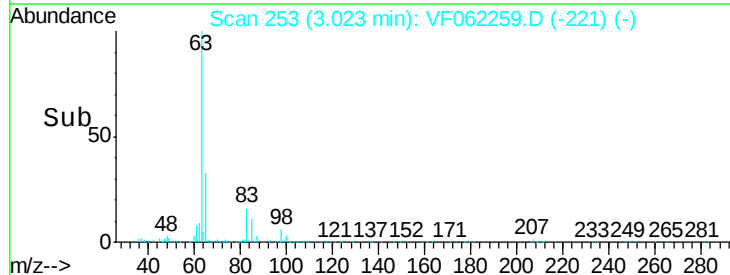
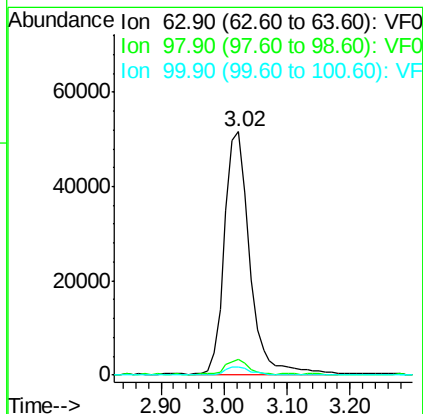
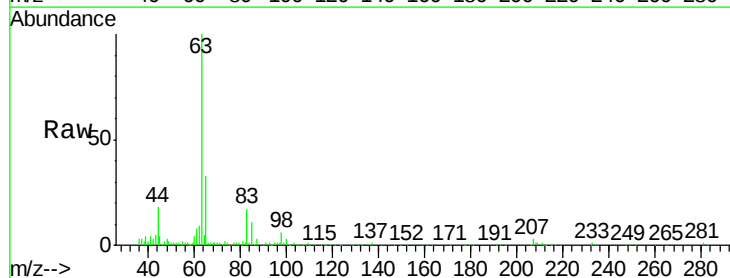
Tgt Ion: 63 Resp: 142865

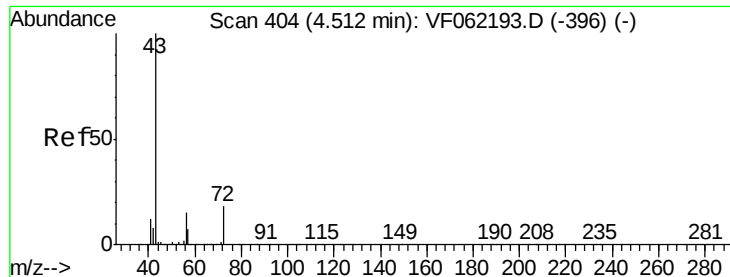
Ion Ratio Lower Upper

63 100

98 5.9 2.3 6.8

100 3.1 1.7 5.0





#25

2-Butanone

Concen: 89.092 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

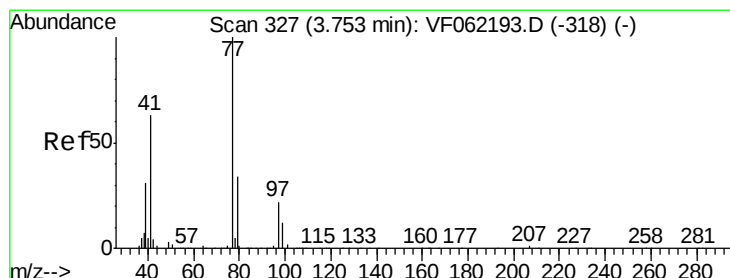
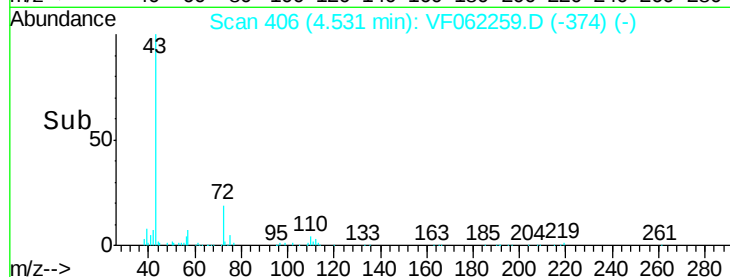
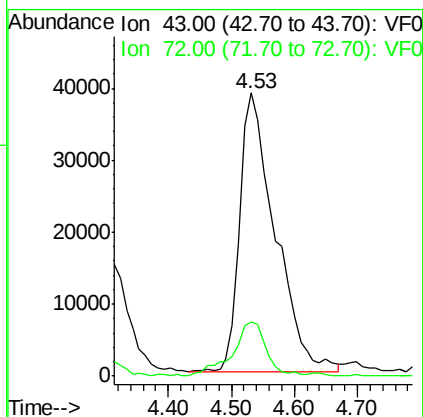
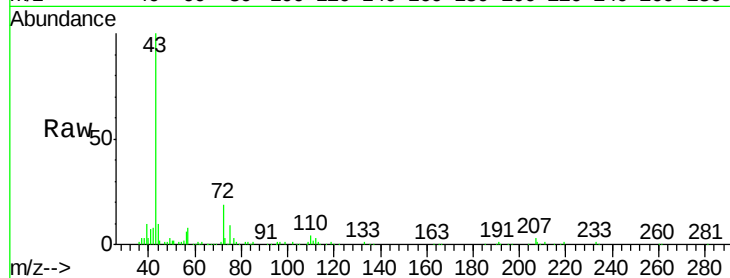
VF0423SBS01

Tot Ion: 43 Resp: 150268

Ion Ratio Lower Upper

43 100

72 19.2 16.1 24.1



#26

2,2-Dichloropropane

Concen: 22.316 ug/l

RT: 3.78 min Scan# 330

Delta R.T. 0.03 min

Lab File: VF062259.D

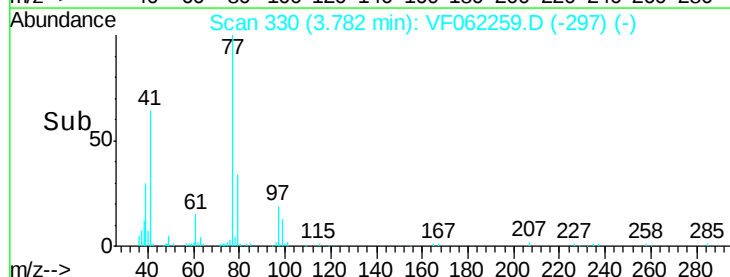
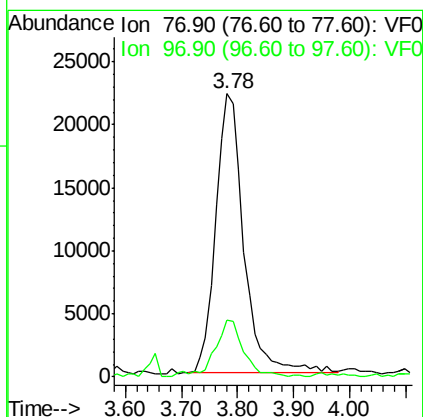
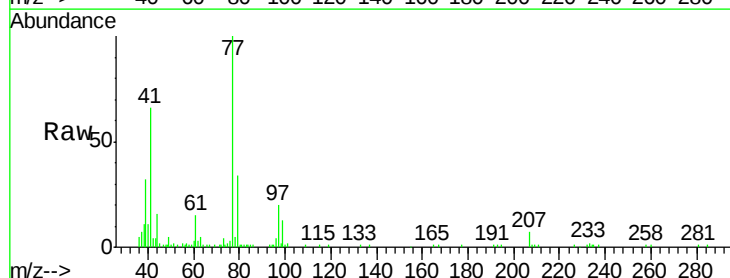
Acq: 23 Apr 2019 13:01

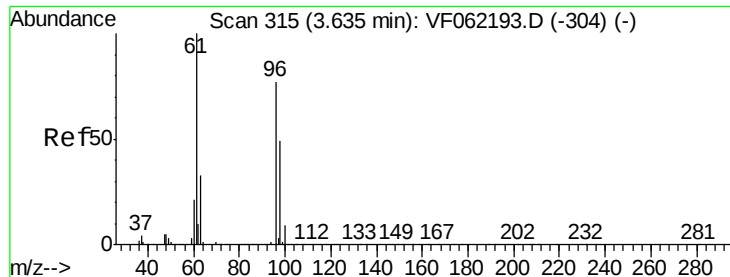
Tgt Ion: 77 Resp: 77570

Ion Ratio Lower Upper

77 100

97 20.0 11.1 33.3



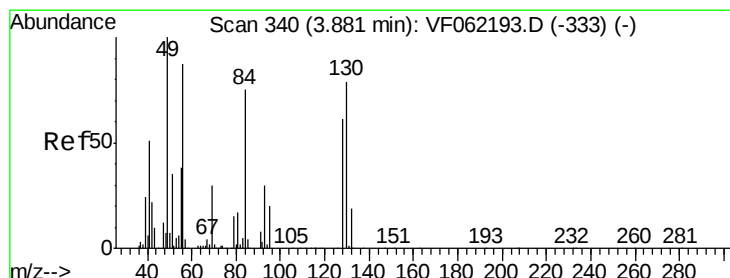
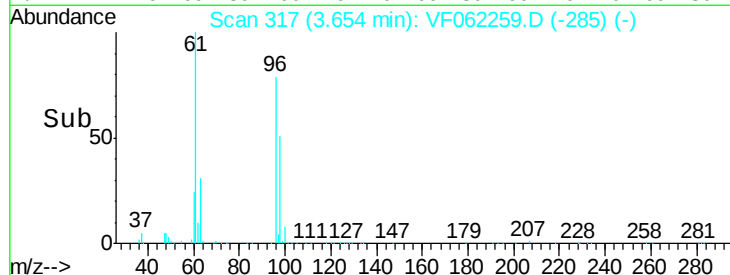
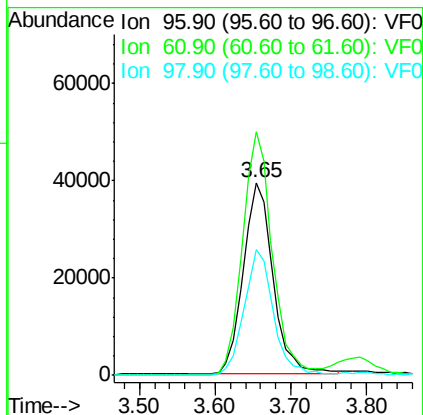
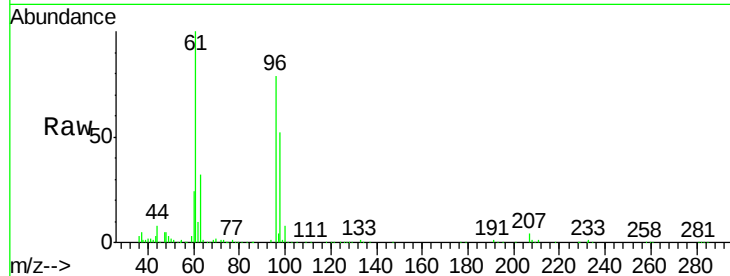


#27

cis-1,2-Dichloroethene  
 Concen: 19.735 ug/l  
 RT: 3.65 min Scan# 317  
 Delta R.T. 0.02 min  
 Lab File: VF062259.D  
 Acq: 23 Apr 2019 13:01

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0423SBS01

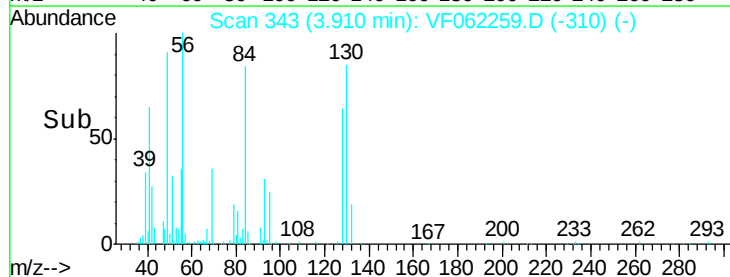
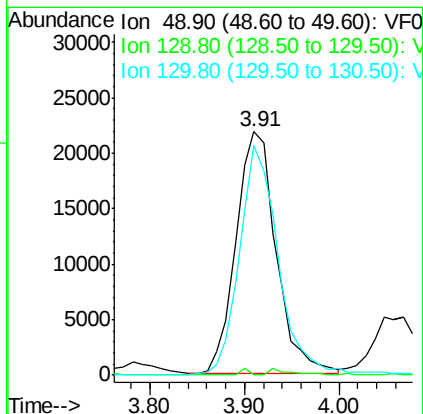
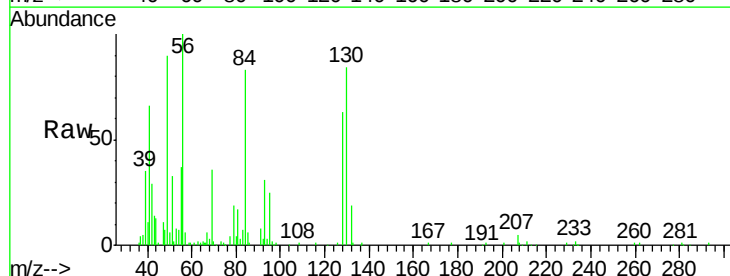
| Tot Ion | 96    | Resp  | 108354 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 96      | 100   |       |        |
| 61      | 127.4 | 0.0   | 253.6  |
| 98      | 64.4  | 0.0   | 124.8  |



#28

Bromochloromethane  
 Concen: 19.436 ug/l  
 RT: 3.91 min Scan# 343  
 Delta R.T. 0.03 min  
 Lab File: VF062259.D  
 Acq: 23 Apr 2019 13:01

| Tgt Ion | 49    | Resp  | 64102 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 49      | 100   |       |       |
| 129     | 0.6   | 0.0   | 0.0#  |
| 130     | 94.0  | 66.6  | 100.0 |

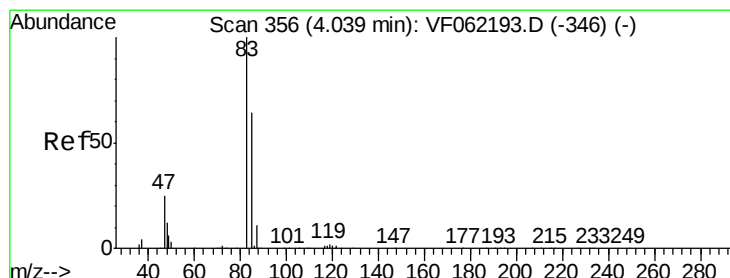
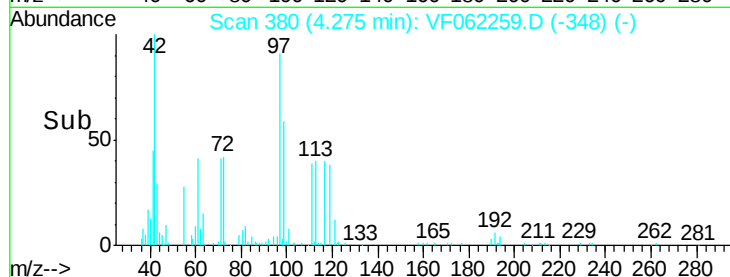
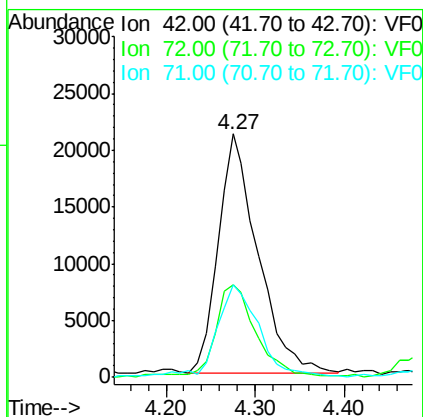
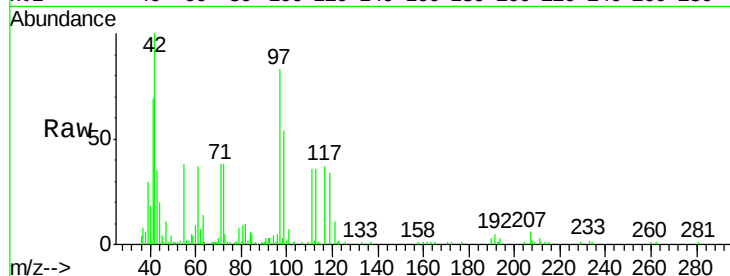




#29  
Tetrahydrofuran  
Concen: 85.954 ug/l  
RT: 4.27 min Scan# 380  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

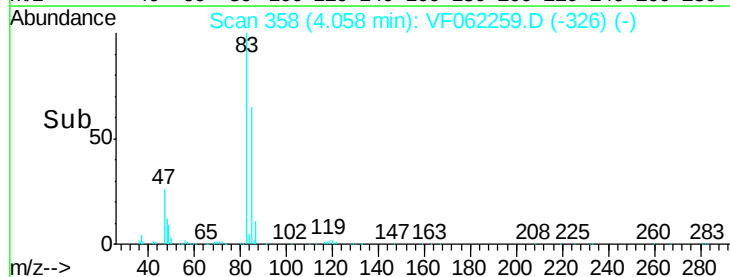
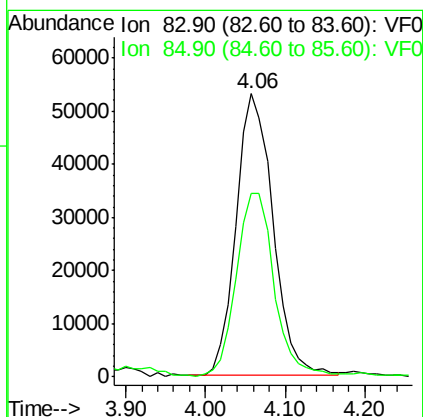
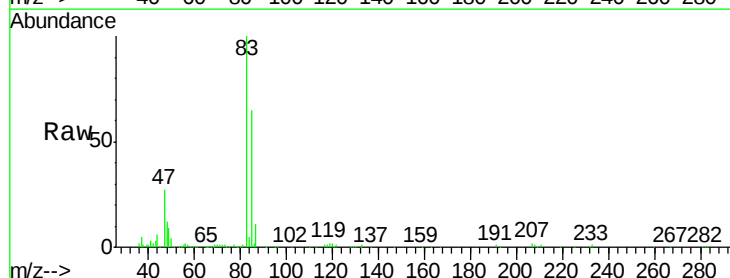
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

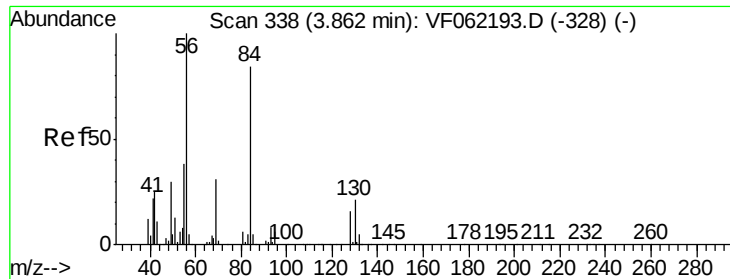
Tot Ion: 42 Resp: 65621  
Ion Ratio Lower Upper  
42 100  
72 40.3 28.6 43.0  
71 41.8 29.2 43.8



#30  
Chloroform  
Concen: 20.153 ug/l  
RT: 4.06 min Scan# 358  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion: 83 Resp: 170517  
Ion Ratio Lower Upper  
83 100  
85 64.9 51.8 77.8

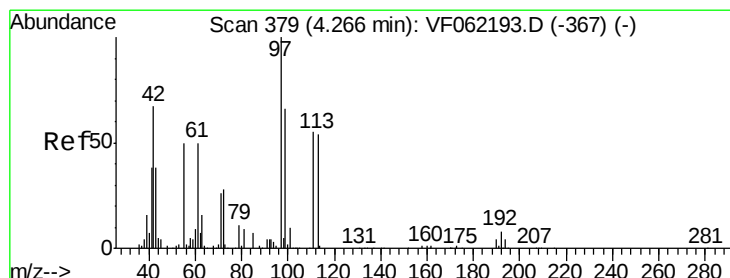
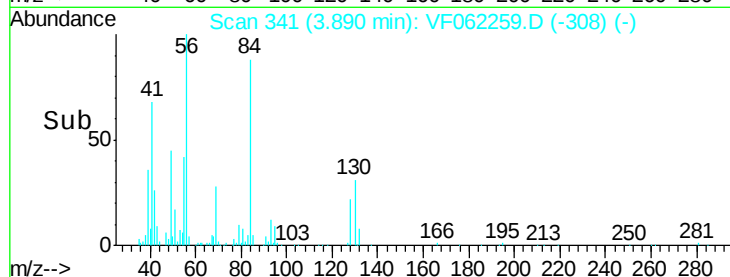
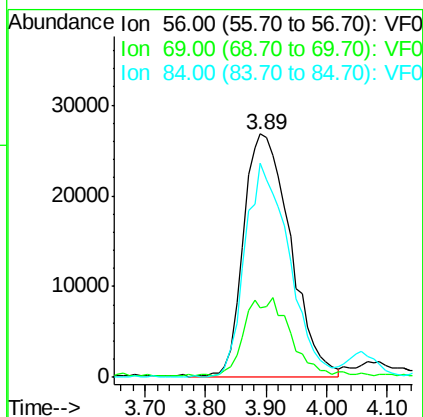
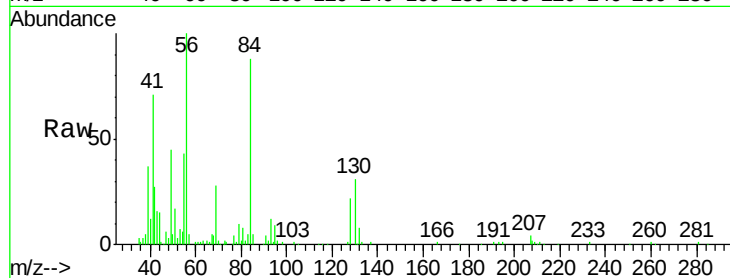




#31  
Cyclohexane  
Concen: 17.499 ug/l  
RT: 3.89 min Scan# 341  
Delta R.T. 0.03 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

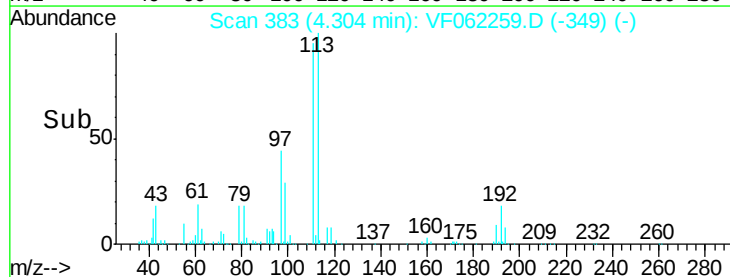
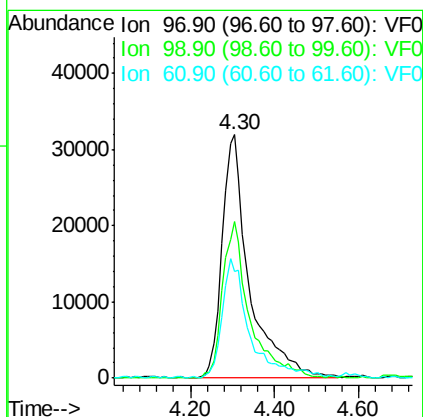
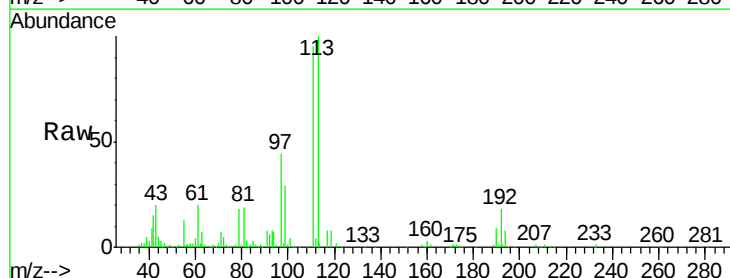
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

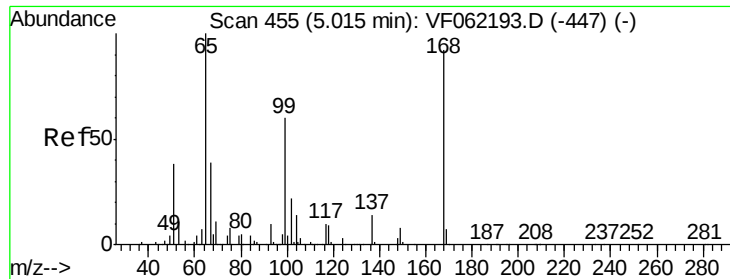
Tot Ion: 56 Resp: 144378  
Ion Ratio Lower Upper  
56 100  
69 27.4 25.1 37.7  
84 87.3 67.8 101.6



#32  
1,1,1-Trichloroethane  
Concen: 23.366 ug/l  
RT: 4.30 min Scan# 383  
Delta R.T. 0.04 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion: 97 Resp: 144716  
Ion Ratio Lower Upper  
97 100  
99 63.4 52.7 79.1  
61 49.6 53.0 79.4#





#33

1,2-Dichloroethane-d4

Concen: 57.973 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

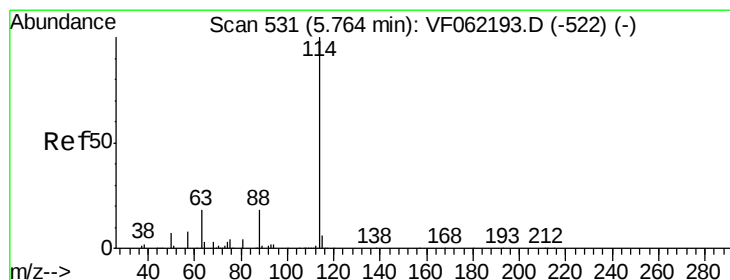
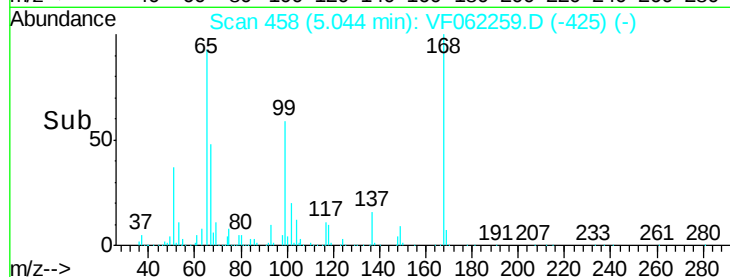
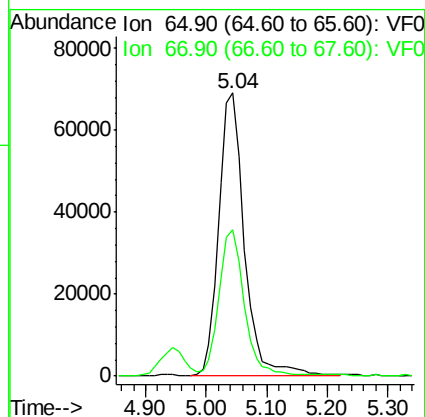
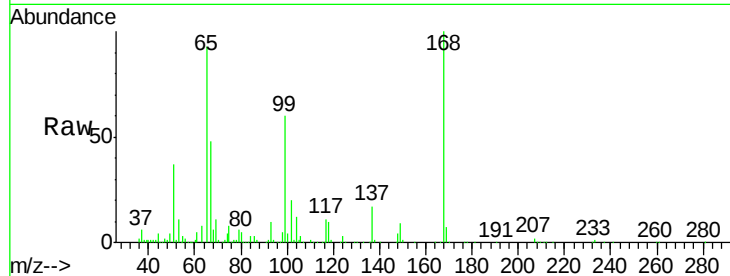
VF0423SBS01

Tot Ion: 65 Resp: 204587

Ion Ratio Lower Upper

65 100

67 49.6 0.0 109.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

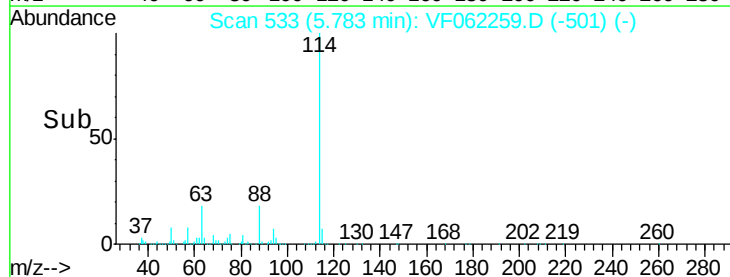
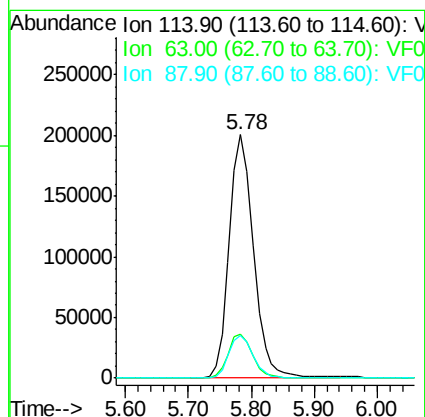
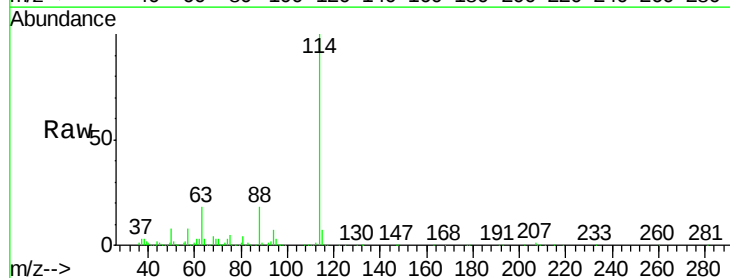
Tgt Ion: 114 Resp: 537477

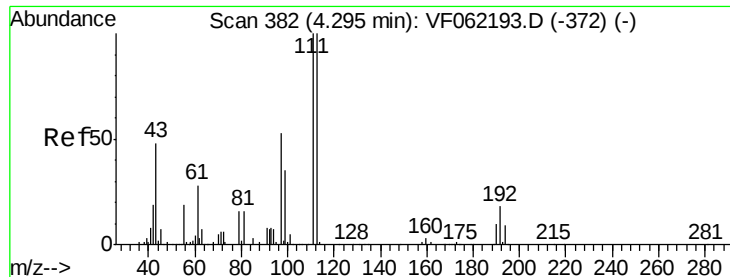
Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.6

88 17.6 0.0 35.8





#35

Dibromofluoromethane

Concen: 55.770 ug/l

RT: 4.31 min Scan# 384

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

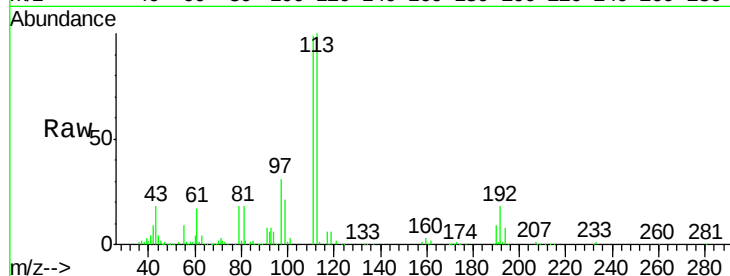
Tot Ion:113 Resp: 262201

Ion Ratio Lower Upper

113 100

111 99.2 81.1 121.7

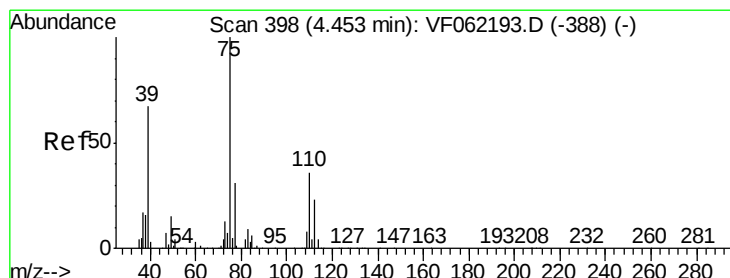
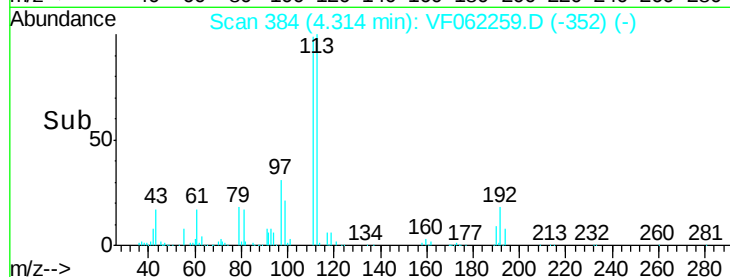
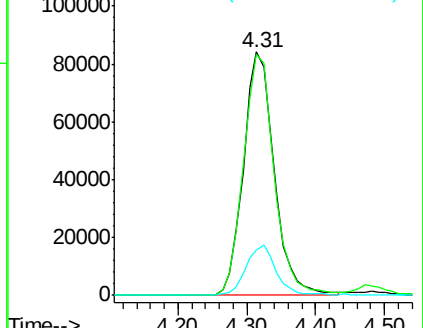
192 20.1 14.7 22.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 19.954 ug/l

RT: 4.48 min Scan# 401

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

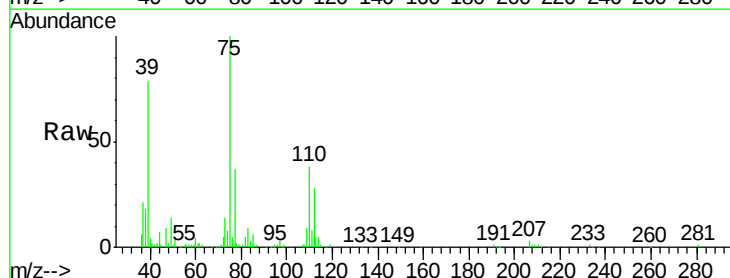
Tgt Ion: 75 Resp: 128586

Ion Ratio Lower Upper

75 100

110 36.3 18.4 55.2

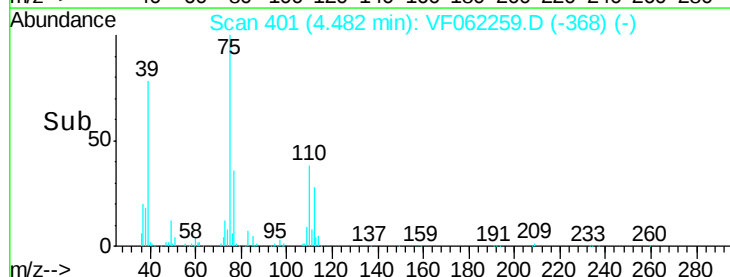
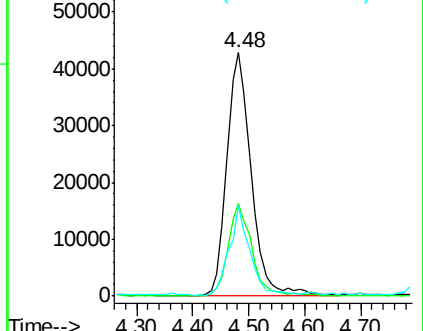
77 31.2 25.4 38.2

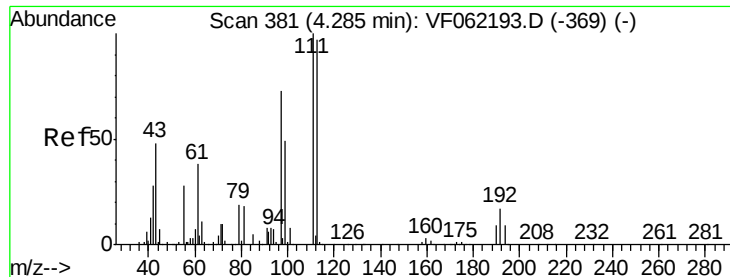


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VF0

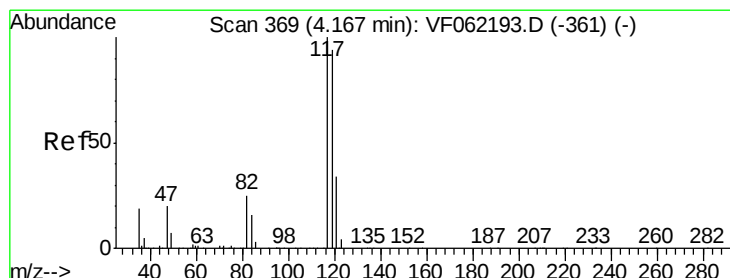
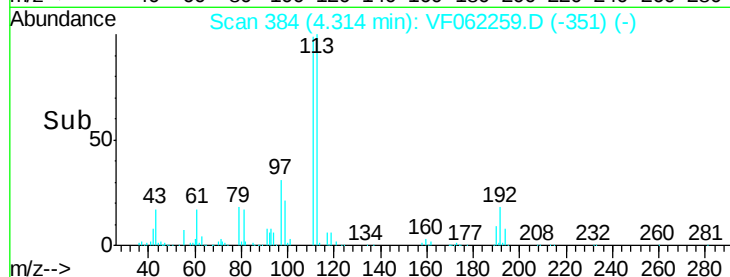
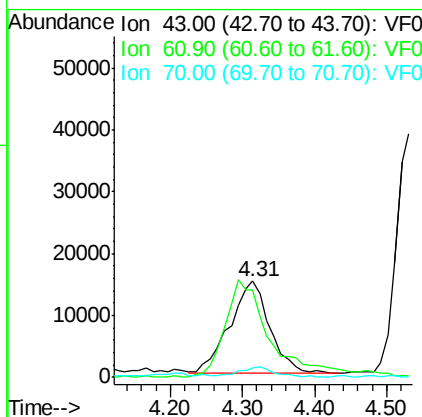
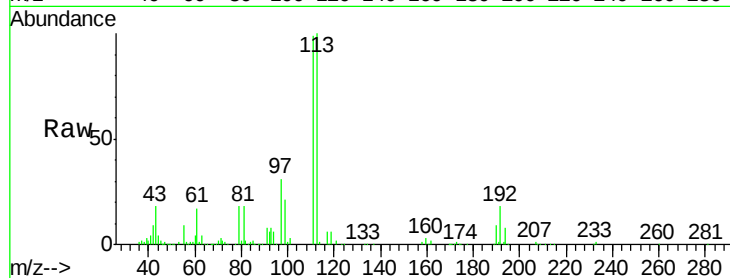




#37  
Ethyl Acetate  
Concen: 18.884 ug/l  
RT: 4.31 min Scan# 384  
Delta R.T. 0.03 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

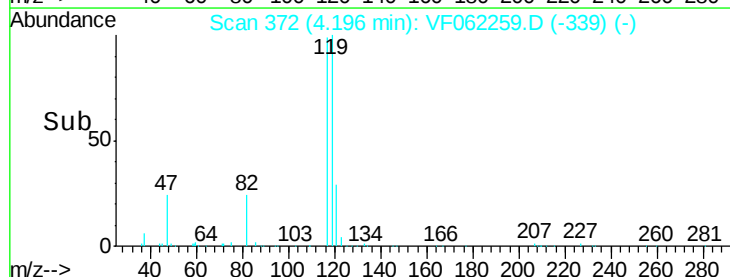
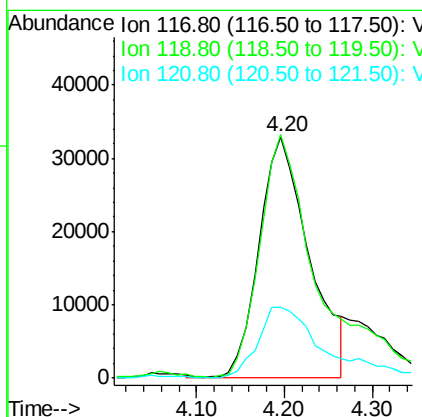
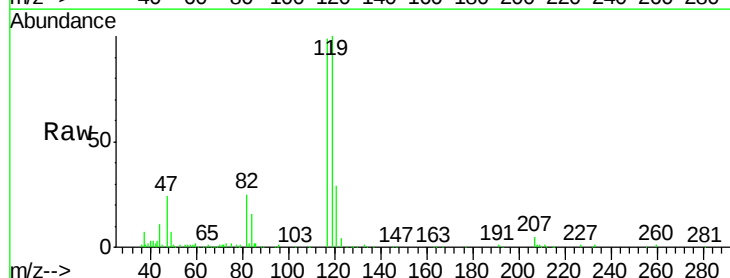
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

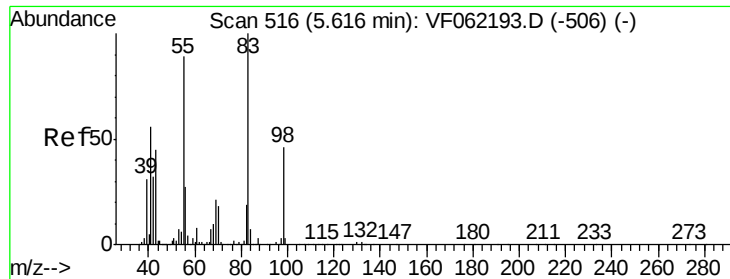
Tot Ion: 43 Resp: 57422  
Ion Ratio Lower Upper  
43 100  
61 0.0 0.0 0.0  
70 8.6 7.8 11.6



#38  
Carbon Tetrachloride  
Concen: 23.104 ug/l m  
RT: 4.20 min Scan# 372  
Delta R.T. 0.03 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion: 117 Resp: 131783  
Ion Ratio Lower Upper  
117 100  
119 100.8 75.0 112.4  
121 29.4 26.9 40.3

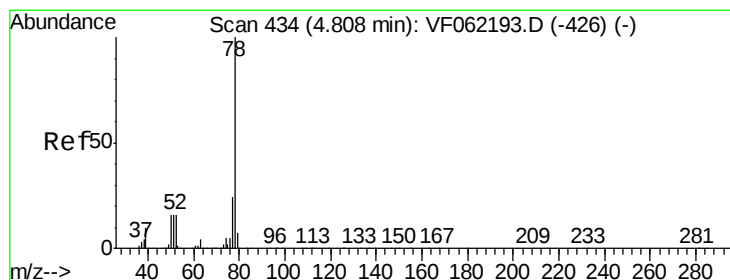
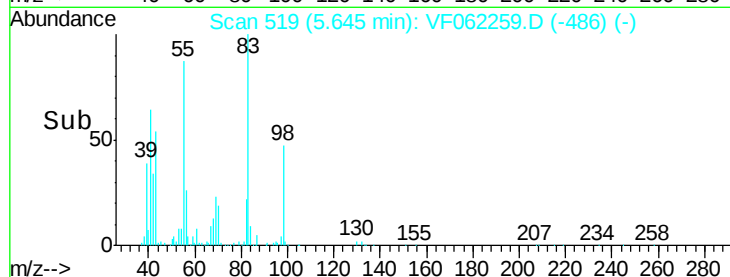
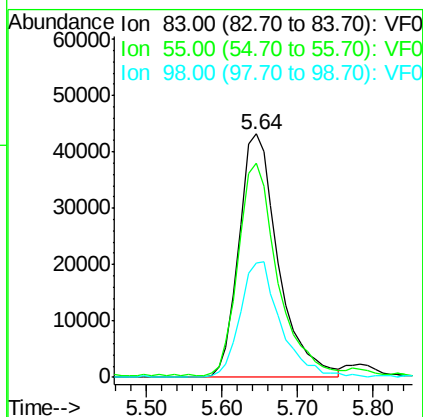
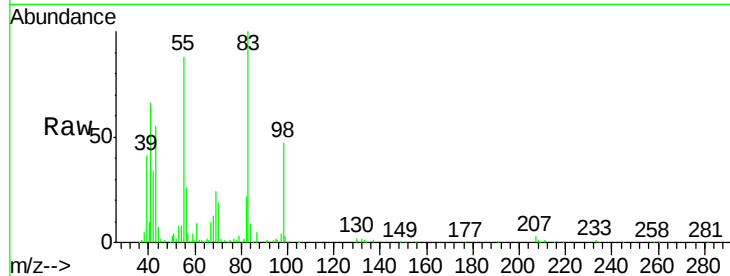




#39  
Methylcyclohexane  
Concen: 20.265 ug/l  
RT: 5.64 min Scan# 519  
Delta R.T. 0.03 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

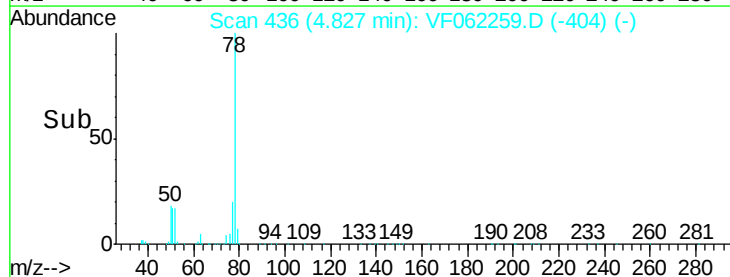
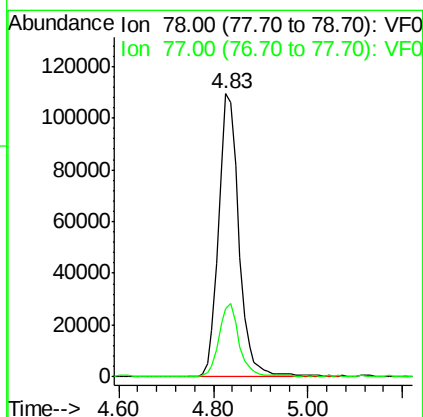
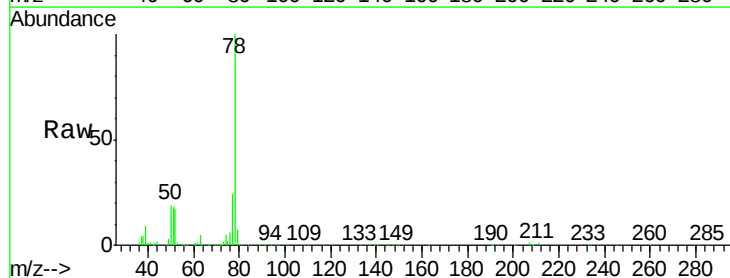
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

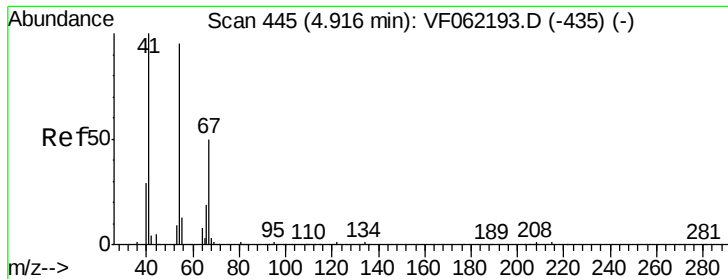
Tot Ion: 83 Resp: 156356  
Ion Ratio Lower Upper  
83 100  
55 86.5 71.0 106.6  
98 47.2 36.7 55.1



#40  
Benzene  
Concen: 19.423 ug/l  
RT: 4.83 min Scan# 436  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion: 78 Resp: 328298  
Ion Ratio Lower Upper  
78 100  
77 23.8 18.9 28.3

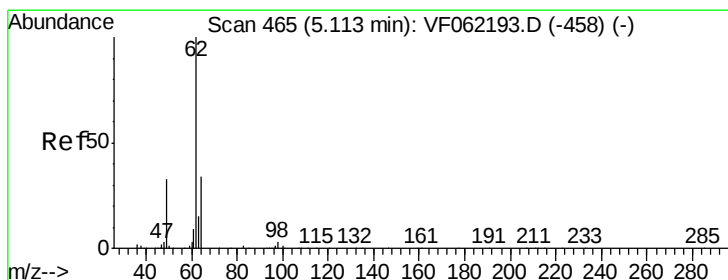
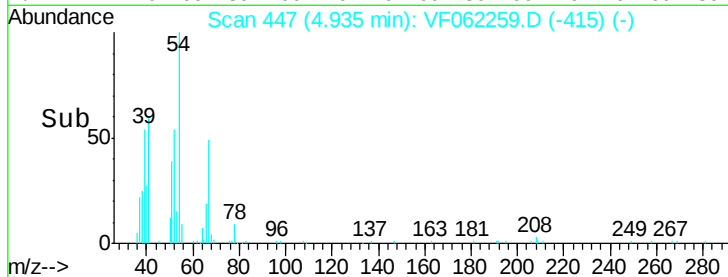
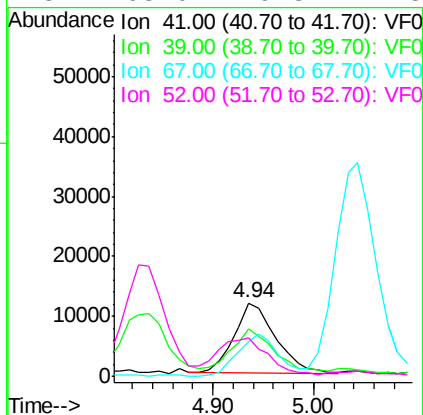
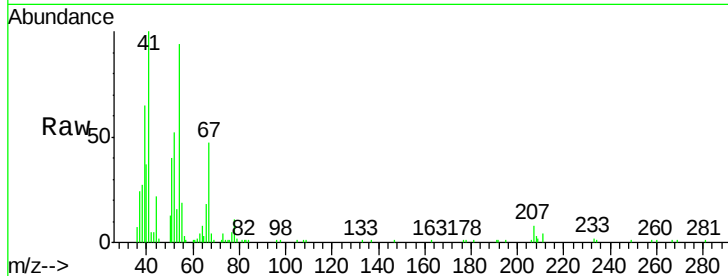




#41  
Methacrylonitrile  
Concen: 19.231 ug/l  
RT: 4.94 min Scan# 447  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

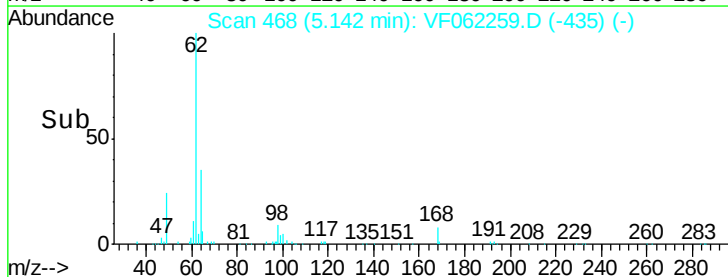
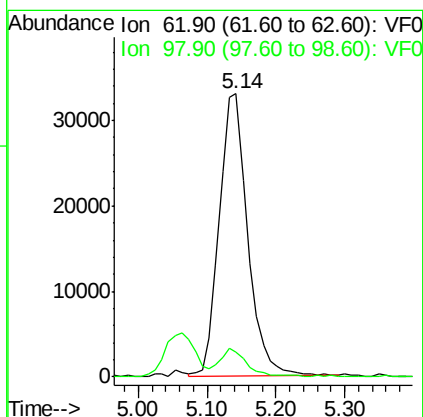
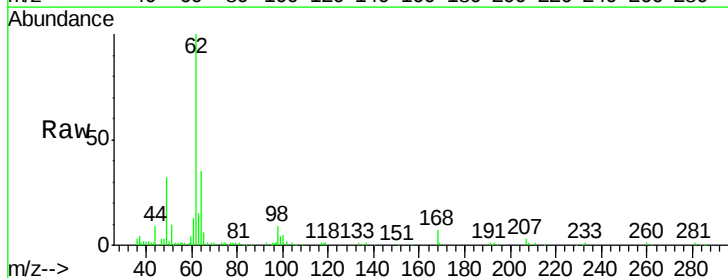
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

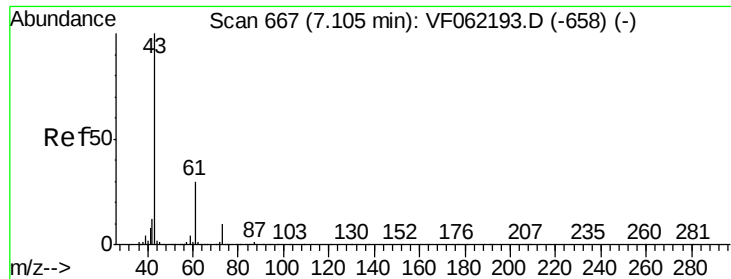
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 33732 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 64.4  | 44.7  | 67.1  |
| 67       | 58.3  | 39.1  | 58.7  |
| 52       | 65.0  | 49.8  | 74.8  |



#42  
1,2-Dichloroethane  
Concen: 21.148 ug/l  
RT: 5.14 min Scan# 468  
Delta R.T. 0.03 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 94496 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.6   | 0.0   | 19.0  |



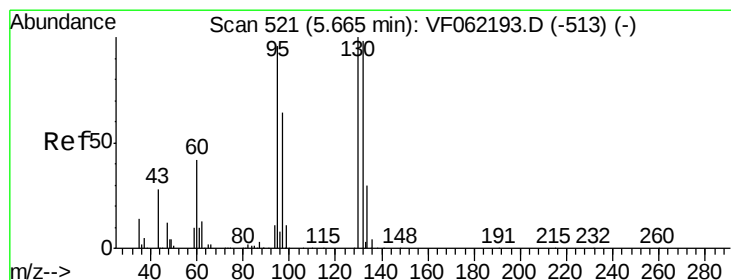
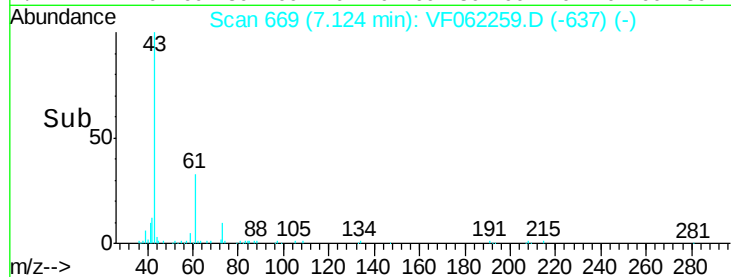
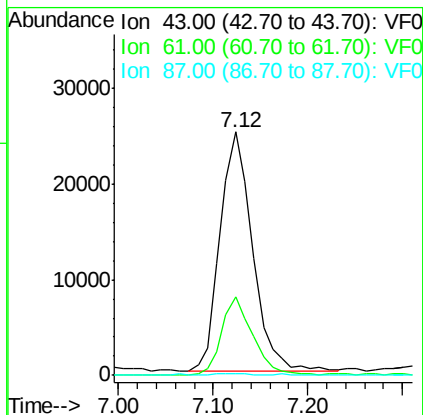
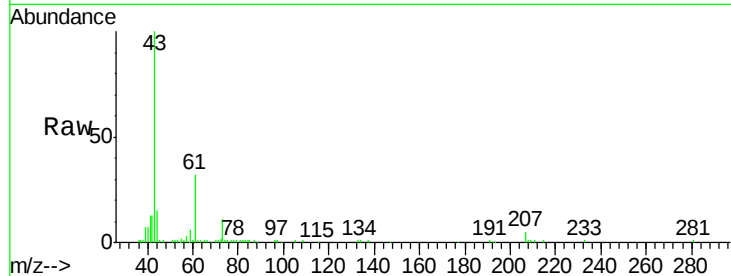


#43

Isopropyl Acetate  
 Concen: 18.860 ug/l  
 RT: 7.12 min Scan# 669  
 Delta R.T. 0.02 min  
 Lab File: VF062259.D  
 Acq: 23 Apr 2019 13:01

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0423SBS01

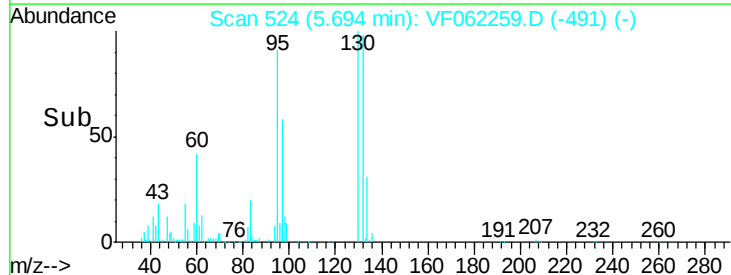
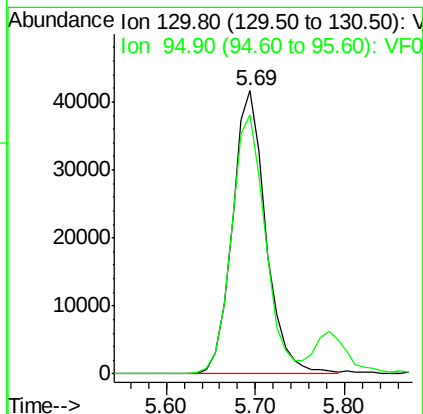
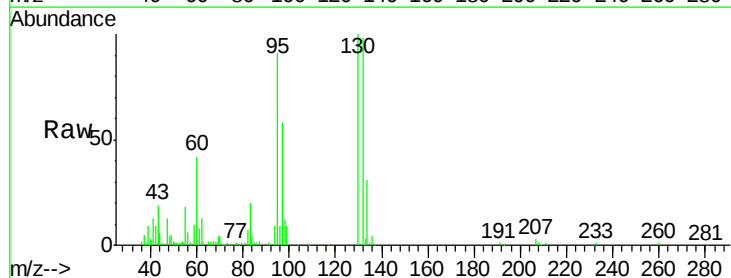
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 31.0  | 24.4  | 36.6  |
| 87      | 0.7   | 0.4   | 0.6   |

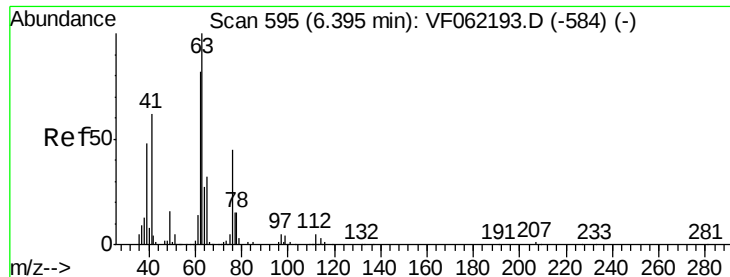


#44

Trichloroethene  
 Concen: 23.822 ug/l  
 RT: 5.69 min Scan# 524  
 Delta R.T. 0.03 min  
 Lab File: VF062259.D  
 Acq: 23 Apr 2019 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 91.0  | 0.0   | 191.4 |





#45

1,2-Dichloropropane

Concen: 20.533 ug/l

RT: 6.41 min Scan# 597

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

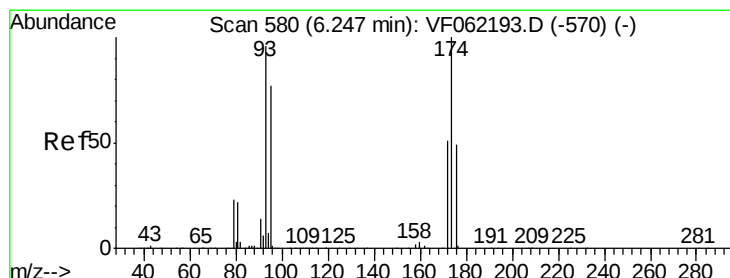
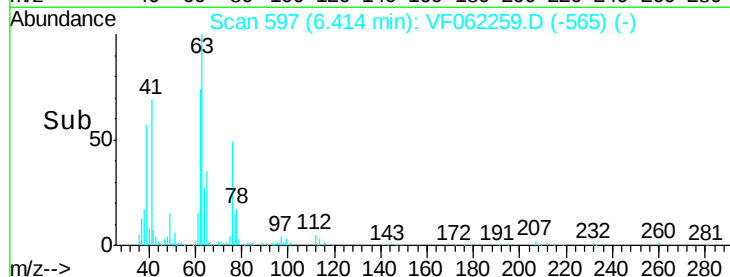
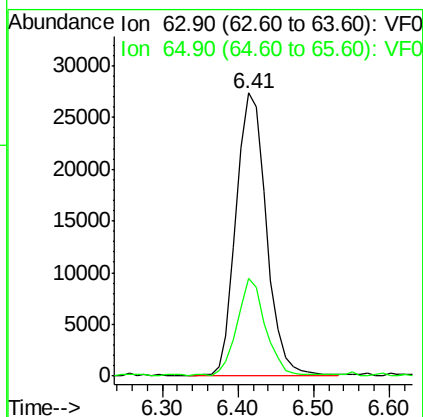
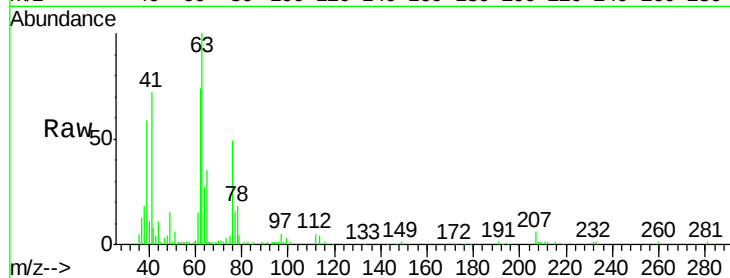
VF0423SBS01

Tot Ion: 63 Resp: 76449

Ion Ratio Lower Upper

63 100

65 34.5 25.9 38.9



#46

Dibromomethane

Concen: 22.467 ug/l

RT: 6.27 min Scan# 582

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

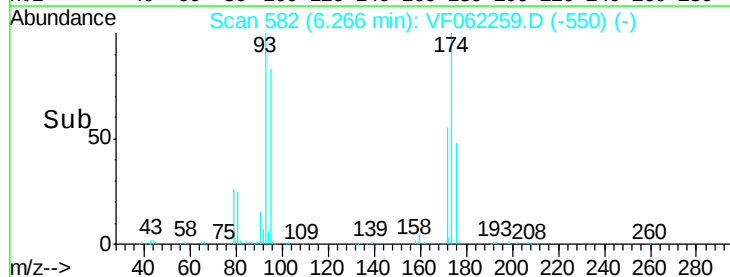
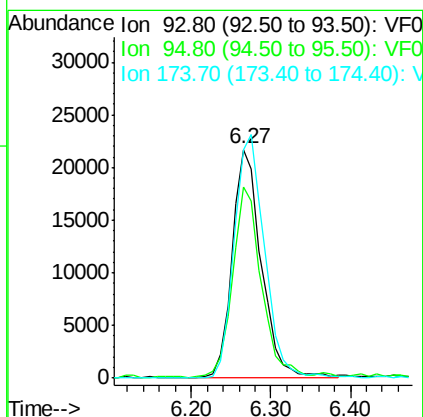
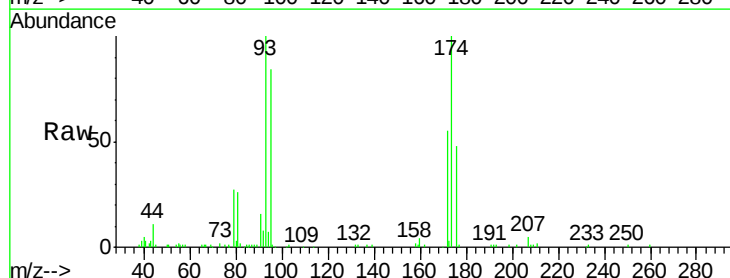
Tgt Ion: 93 Resp: 55653

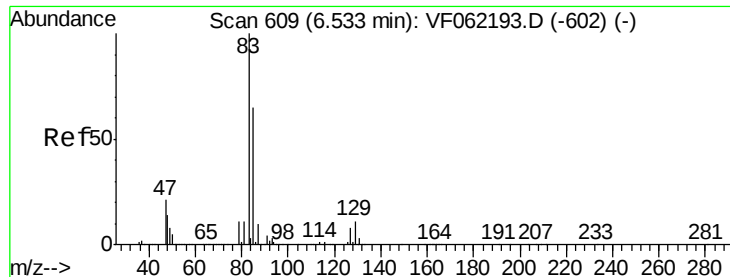
Ion Ratio Lower Upper

93 100

95 82.7 65.1 97.7

174 110.3 81.8 122.6





#47

Bromodichloromethane

Concen: 22.749 ug/l

RT: 6.56 min Scan# 612

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

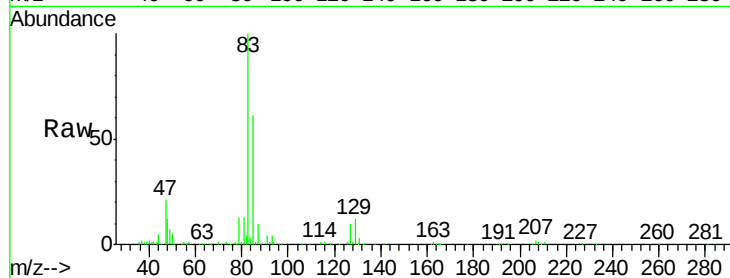
Tot Ion: 83 Resp: 127164

Ion Ratio Lower Upper

83 100

85 61.2 52.2 78.4

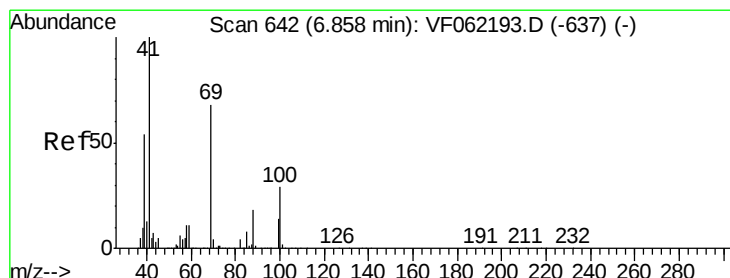
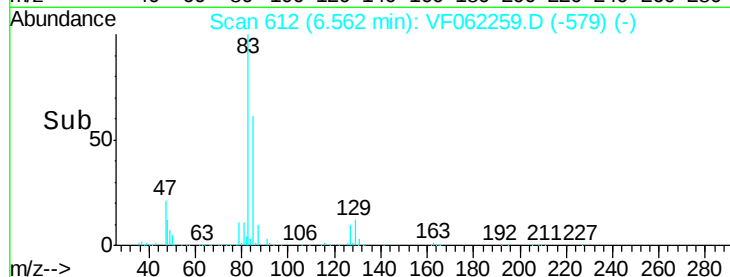
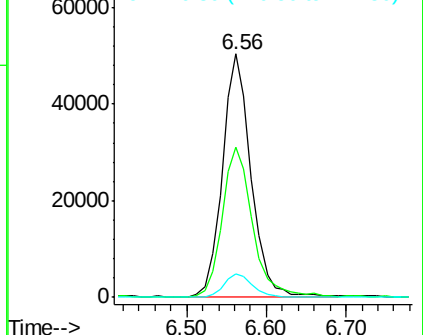
127 9.5 6.7 10.1



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.244 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

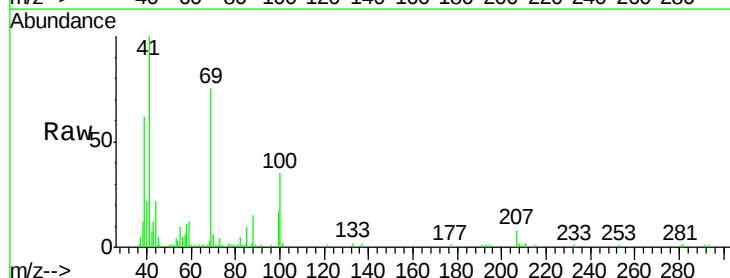
Tgt Ion: 41 Resp: 40447

Ion Ratio Lower Upper

41 100

69 70.3 54.9 82.3

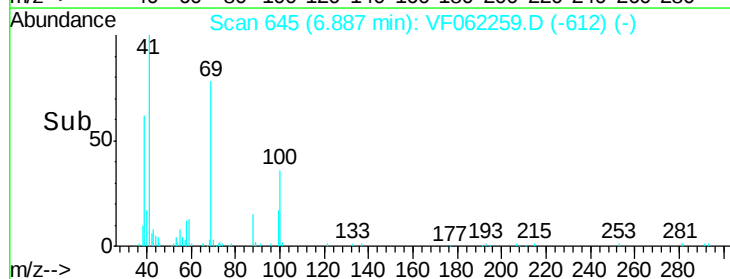
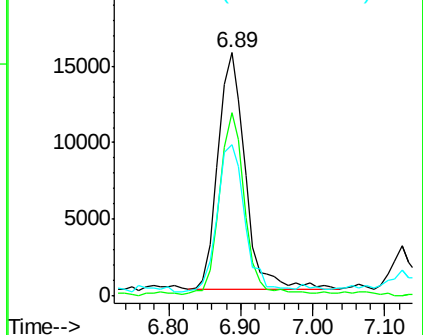
39 63.1 43.6 65.4

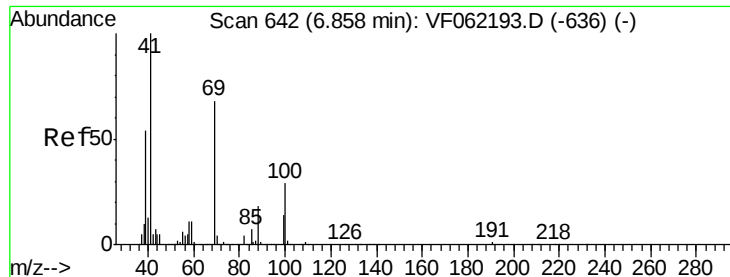


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

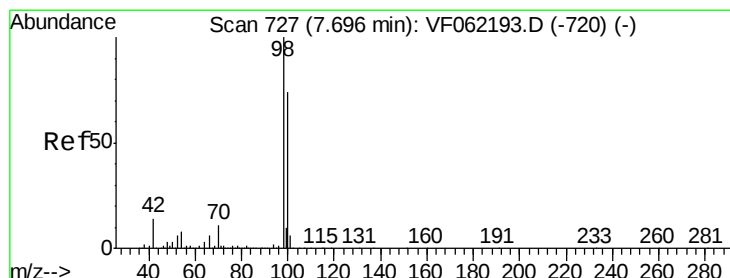
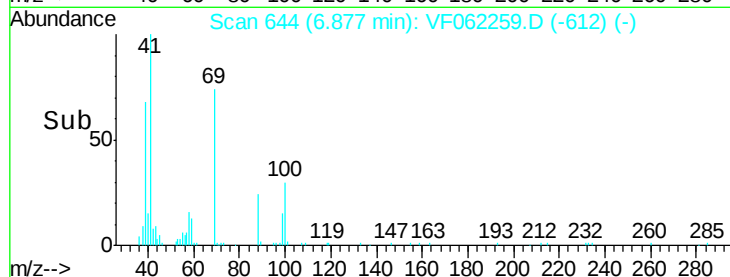
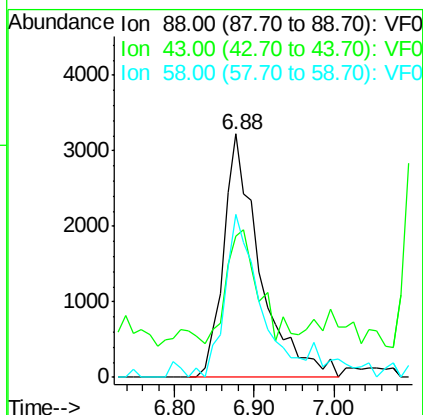
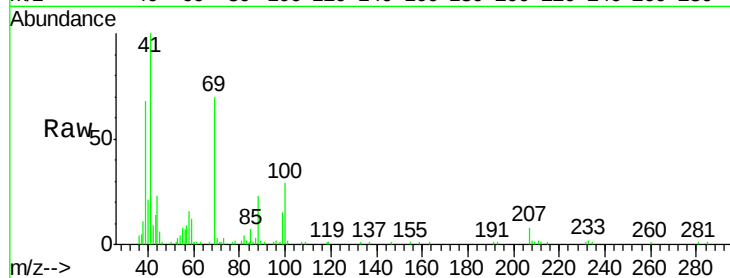




#49  
1,4-Dioxane  
Concen: 429.090 ug/l  
RT: 6.88 min Scan# 644  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

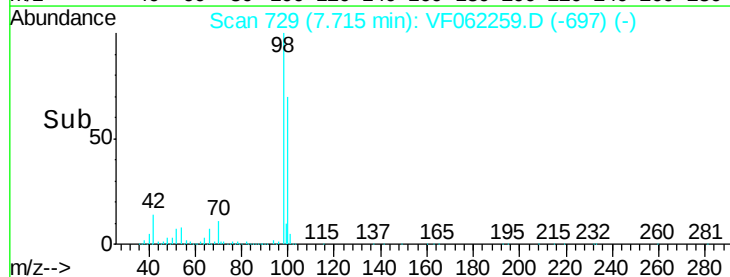
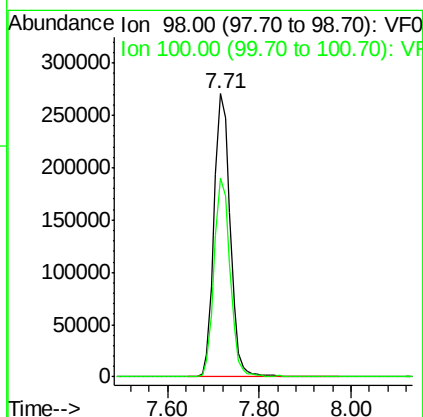
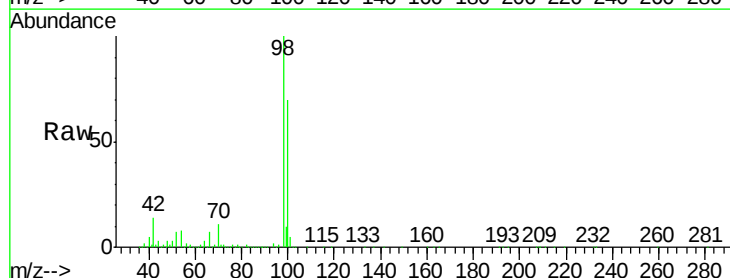
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

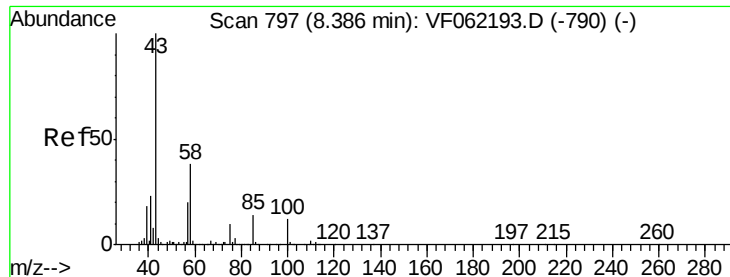
Tot Ion: 88 Resp: 10343  
Ion Ratio Lower Upper  
88 100  
43 41.9 36.9 55.3  
58 64.7 56.8 85.2



#50  
Toluene-d8  
Concen: 55.087 ug/l  
RT: 7.71 min Scan# 729  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion: 98 Resp: 655601  
Ion Ratio Lower Upper  
98 100  
100 69.0 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 103.703 ug/l

RT: 8.41 min Scan# 800

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

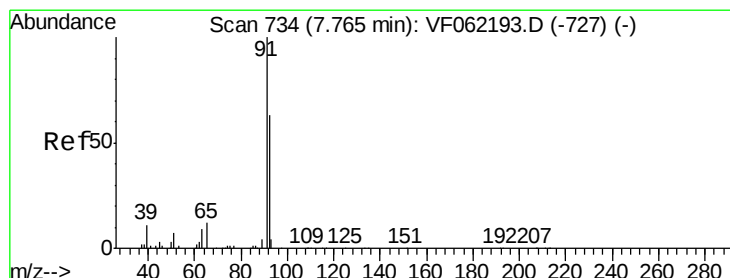
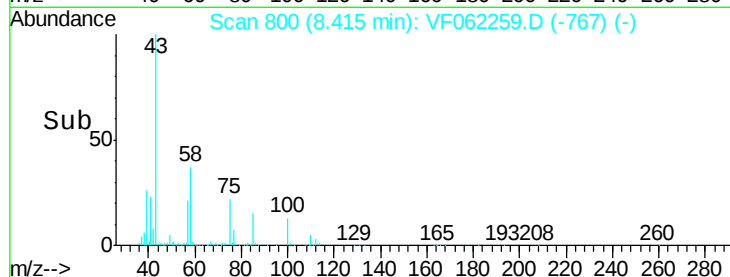
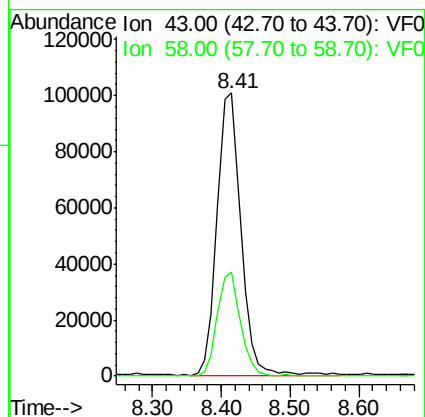
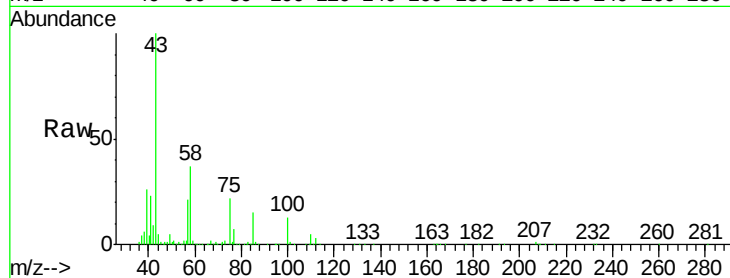
VF0423SBS01

Tot Ion: 43 Resp: 246686

Ion Ratio Lower Upper

43 100

58 35.4 29.3 43.9



#52

Toluene

Concen: 21.307 ug/l

RT: 7.78 min Scan# 736

Delta R.T. 0.02 min

Lab File: VF062259.D

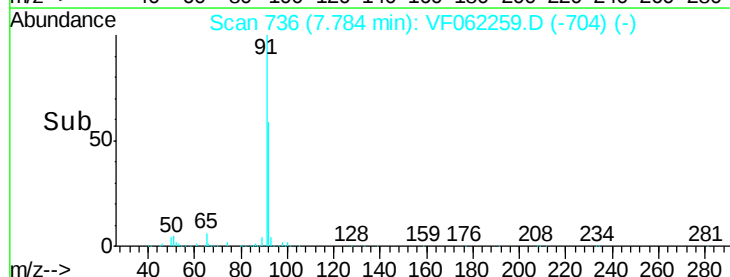
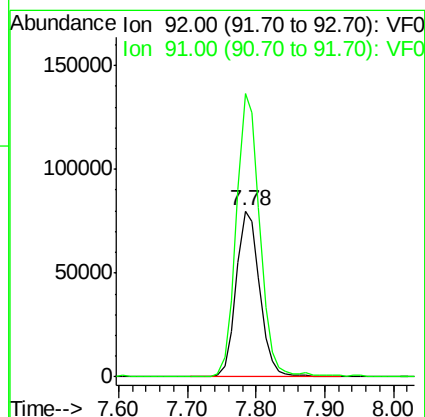
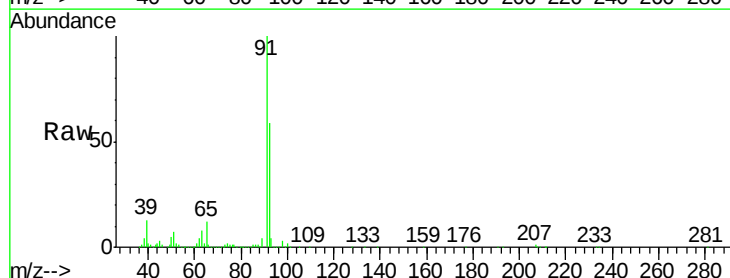
Acq: 23 Apr 2019 13:01

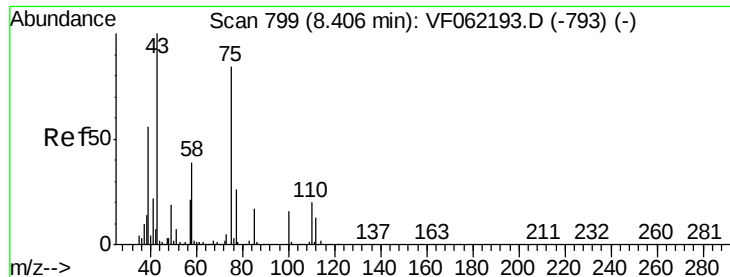
Tgt Ion: 92 Resp: 189839

Ion Ratio Lower Upper

92 100

91 169.9 130.1 195.1





#53

t-1,3-Dichloropropene

Concen: 23.295 ug/l

RT: 8.43 min Scan# 802

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

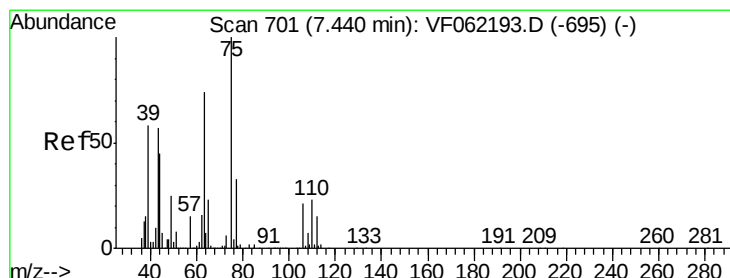
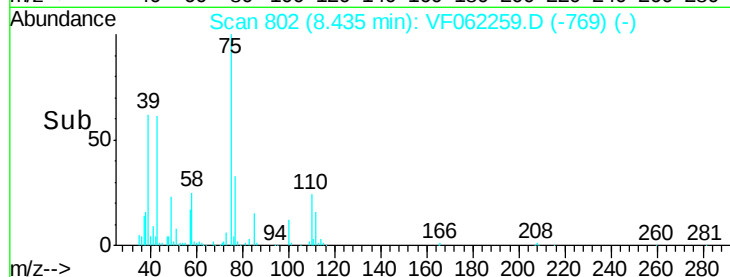
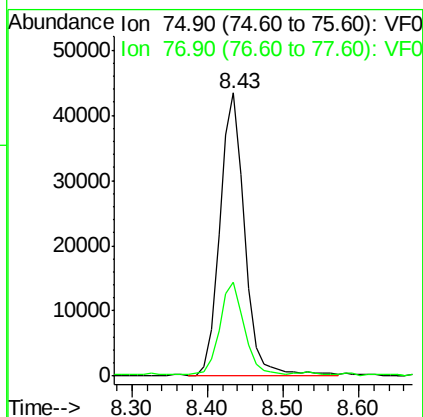
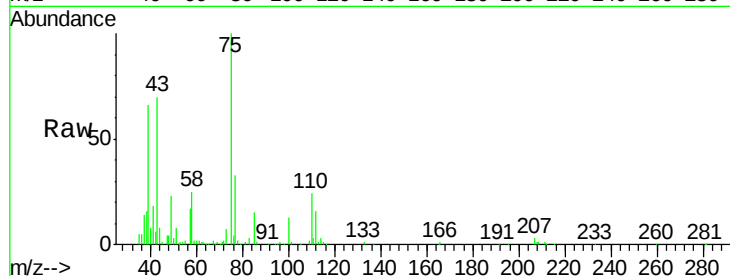
VF0423SBS01

Tot Ion: 75 Resp: 97803

Ion Ratio Lower Upper

75 100

77 32.7 24.6 36.8



#54

cis-1,3-Dichloropropene

Concen: 22.027 ug/l

RT: 7.47 min Scan# 704

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

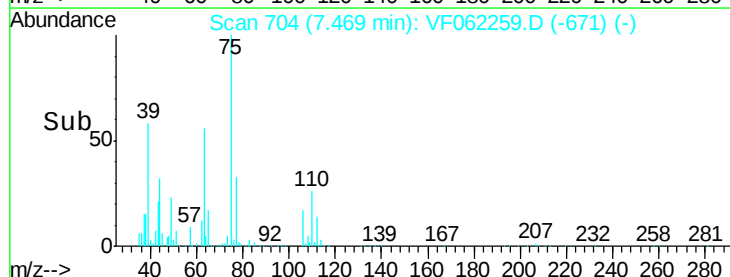
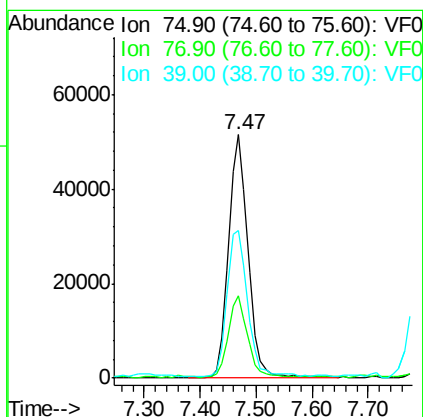
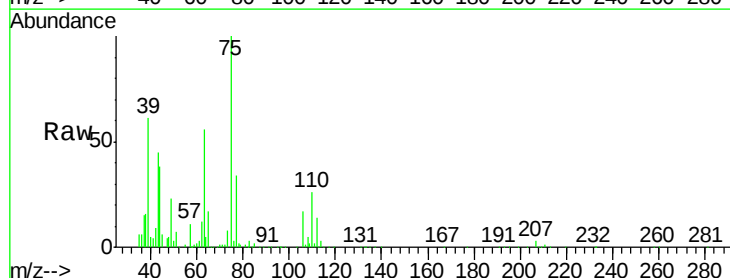
Tgt Ion: 75 Resp: 125094

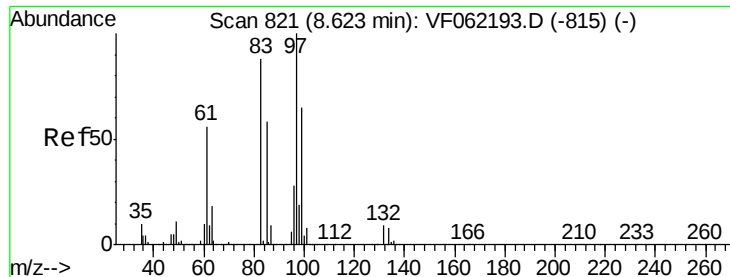
Ion Ratio Lower Upper

75 100

77 33.3 26.4 39.6

39 60.0 46.7 70.1





#55

1,1,2-Trichloroethane

Concen: 22.509 ug/l

RT: 8.64 min Scan# 823

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

Tot Ion: 97 Resp: 56182

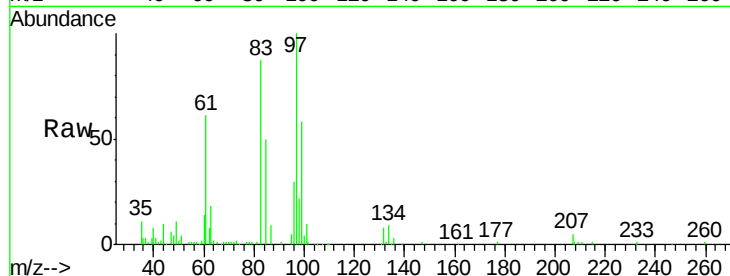
Ion Ratio Lower Upper

97 100

83 86.7 70.2 105.2

85 49.2 46.2 69.4

99 57.7 52.2 78.4

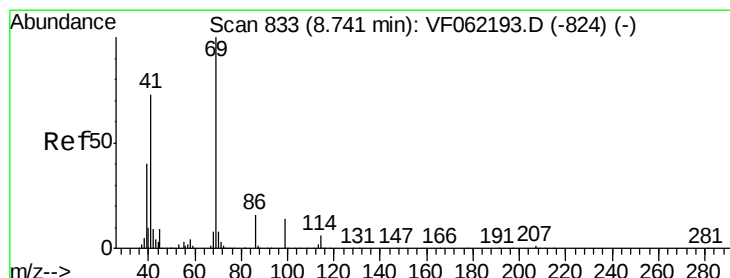
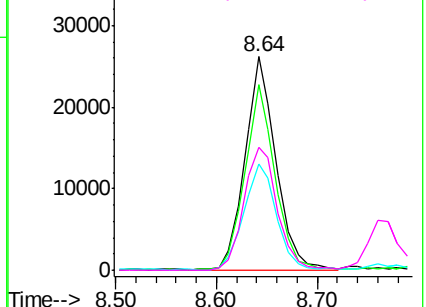
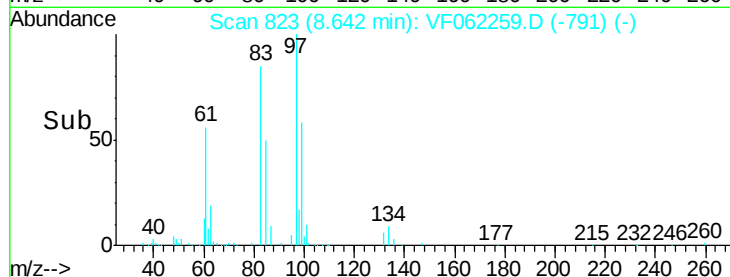


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#56

Ethyl methacrylate

Concen: 21.866 ug/l

RT: 8.76 min Scan# 835

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

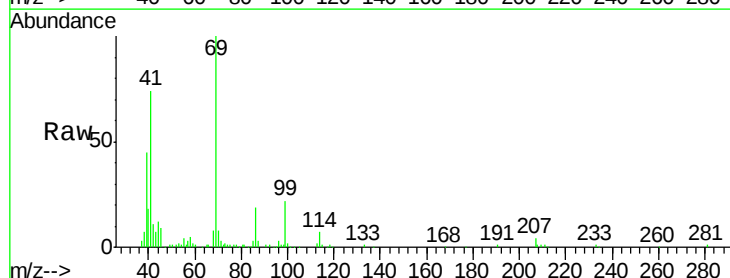
Tgt Ion: 69 Resp: 62050

Ion Ratio Lower Upper

69 100

41 74.7 61.5 92.3

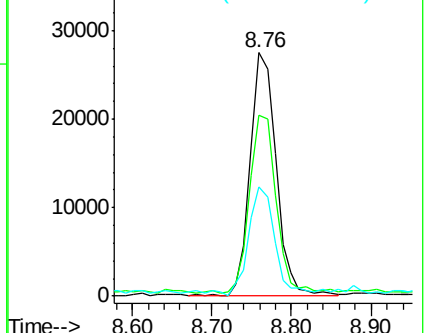
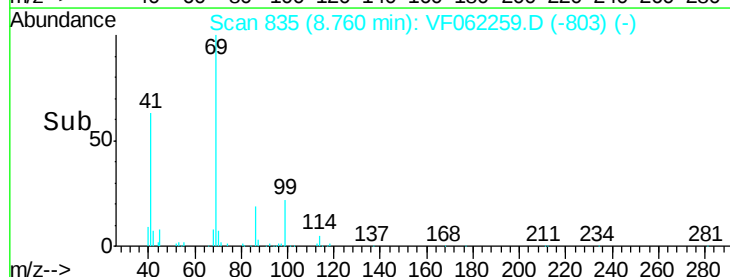
39 45.2 33.3 49.9

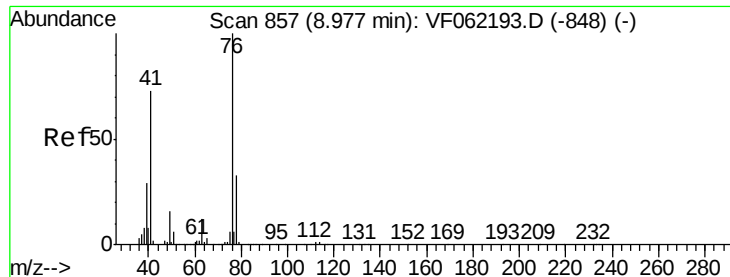


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.223 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

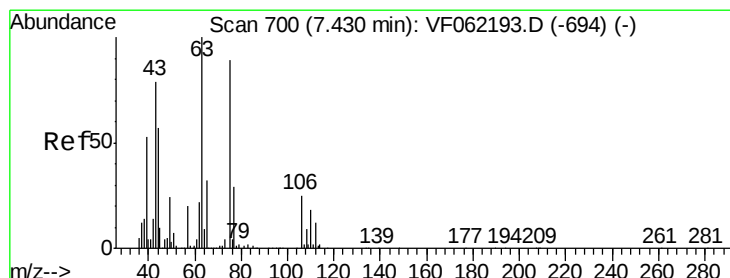
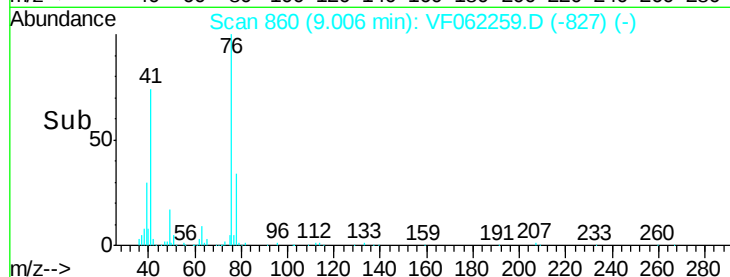
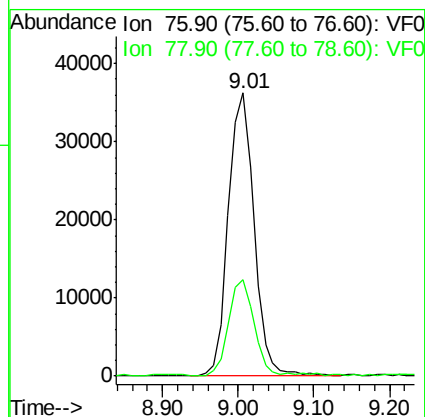
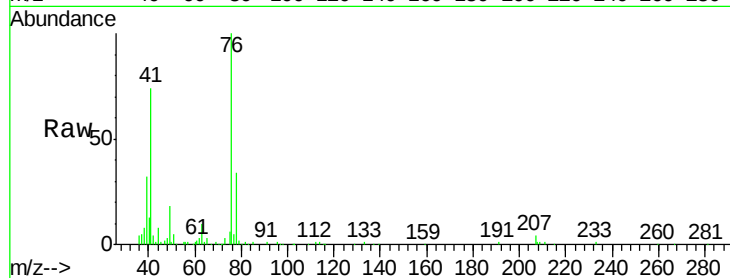
VF0423SBS01

Tot Ion: 76 Resp: 85538

Ion Ratio Lower Upper

76 100

78 34.0 26.5 39.7



#58

2-Chloroethyl Vinyl ether

Concen: 101.467 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.03 min

Lab File: VF062259.D

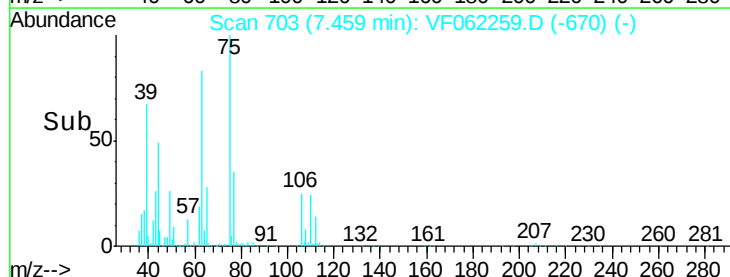
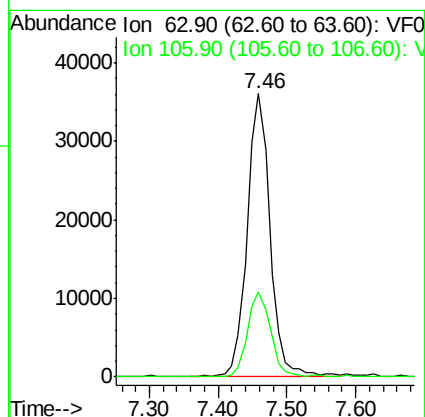
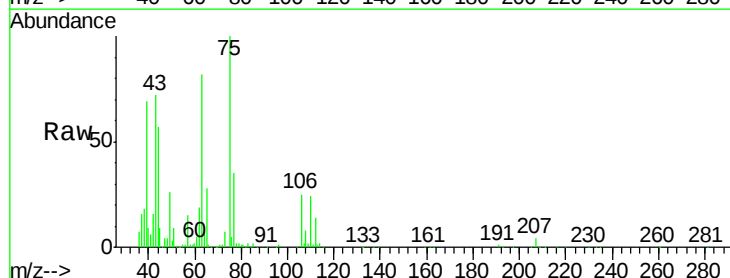
Acq: 23 Apr 2019 13:01

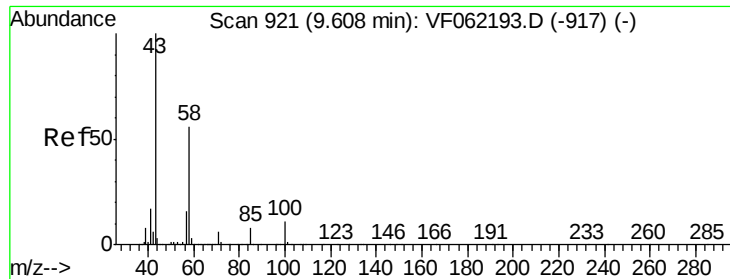
Tgt Ion: 63 Resp: 83599

Ion Ratio Lower Upper

63 100

106 30.0 21.4 32.0

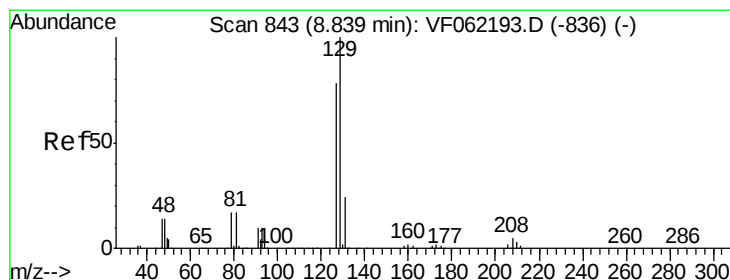
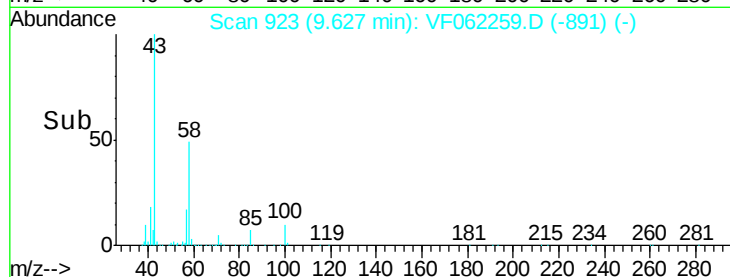
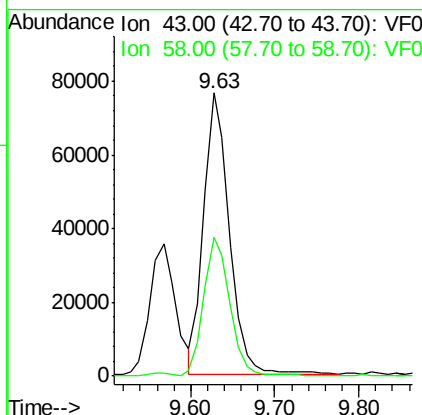
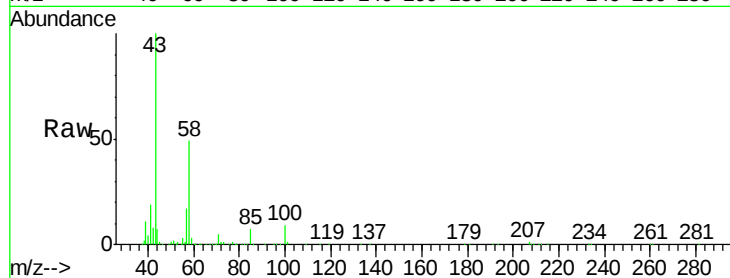




#59  
2-Hexanone  
Concen: 108.539 ug/l  
RT: 9.63 min Scan# 923  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

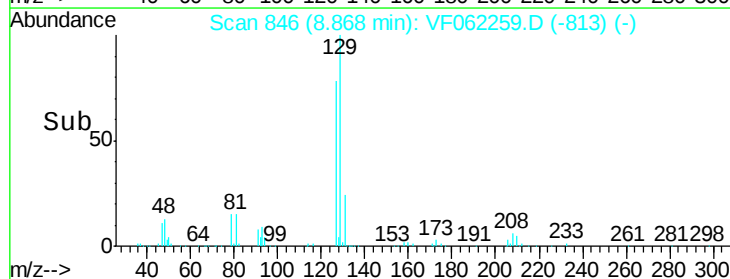
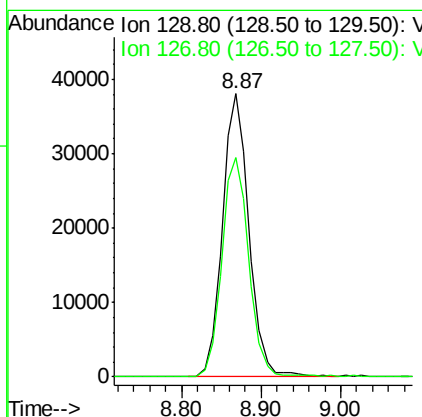
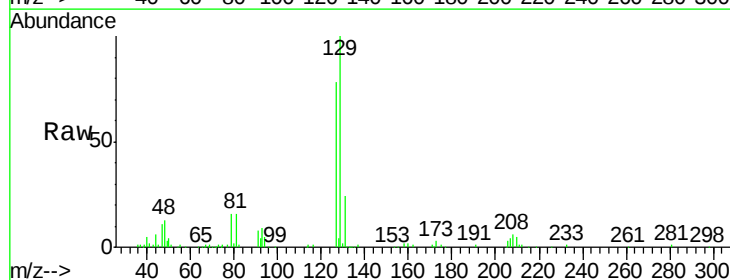
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

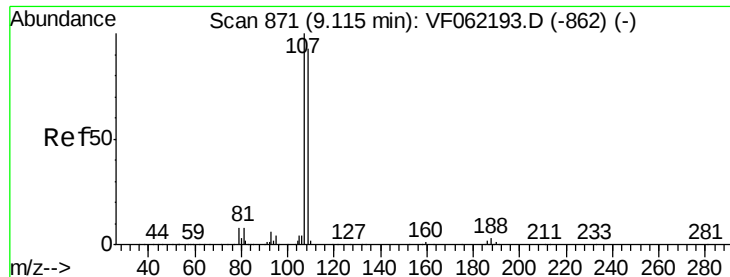
Tot Ion: 43 Resp: 160891  
Ion Ratio Lower Upper  
43 100  
58 50.3 24.6 74.0



#60  
Dibromochloromethane  
Concen: 23.983 ug/l  
RT: 8.87 min Scan# 846  
Delta R.T. 0.03 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion: 129 Resp: 89024  
Ion Ratio Lower Upper  
129 100  
127 78.8 39.0 117.0





#61

1,2-Dibromoethane

Concen: 23.130 ug/l

RT: 9.13 min Scan# 873

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

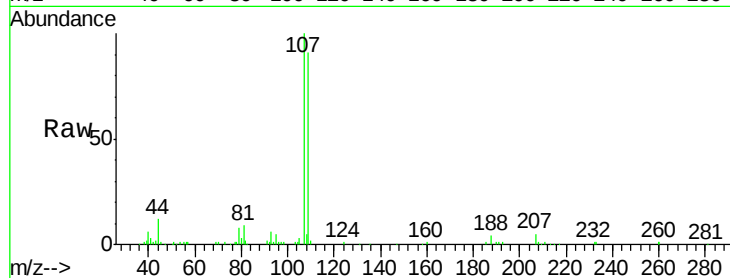
VF0423SBS01

Tot Ion:107 Resp: 65042

Ion Ratio Lower Upper

107 100

109 94.7 74.3 111.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.13

30000

25000

20000

15000

10000

5000

0

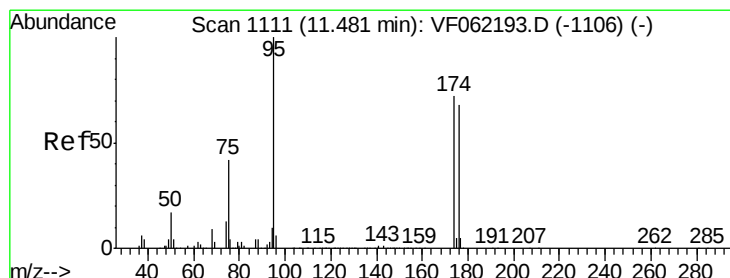
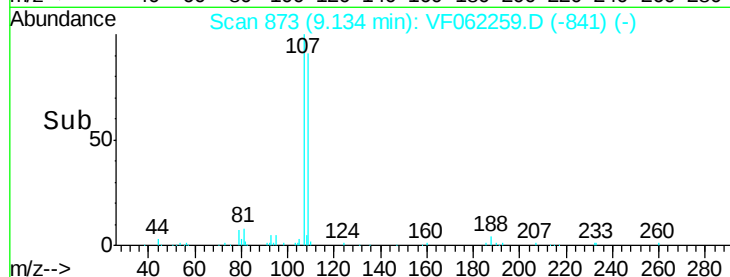
Time-->

9.00

9.10

9.20

9.30



#62

4-Bromofluorobenzene

Concen: 60.565 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

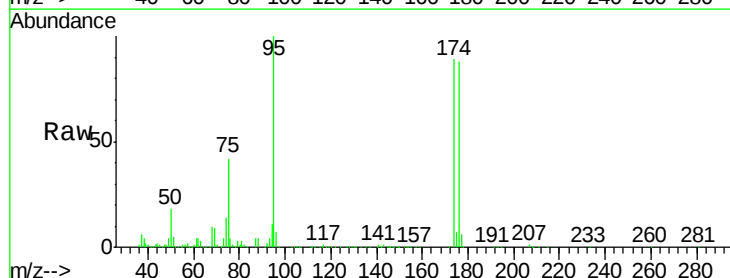
Tgt Ion: 95 Resp: 277286

Ion Ratio Lower Upper

95 100

174 91.2 0.0 159.4

176 89.7 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.50

200000

150000

100000

50000

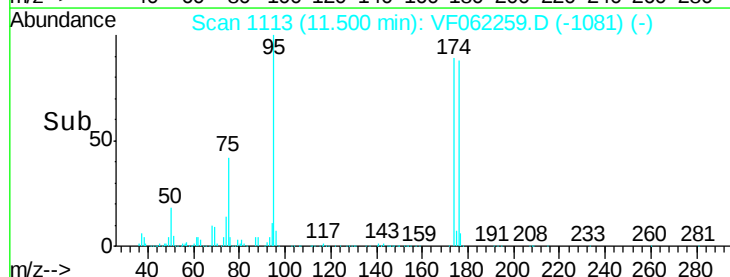
0

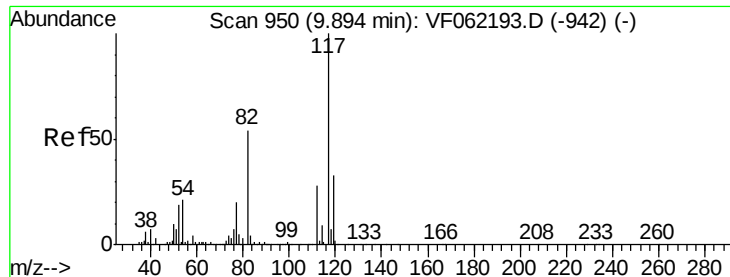
Time-->

11.40

11.50

11.60

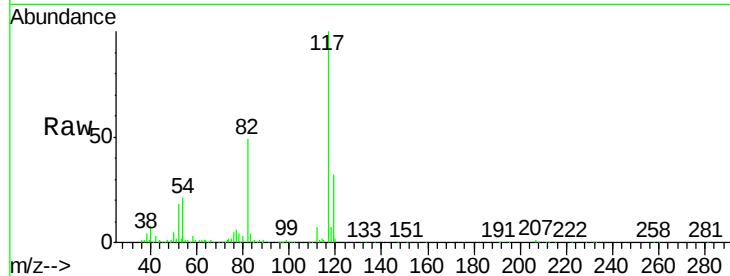




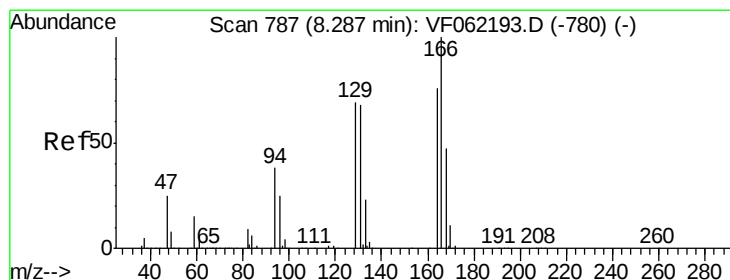
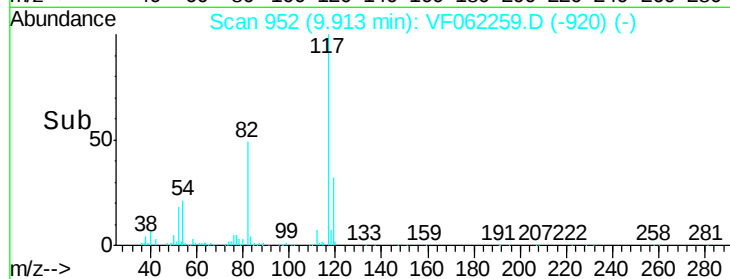
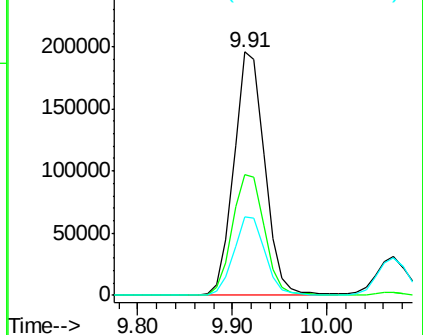
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 952  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

Tot Ion:117 Resp: 441835  
Ion Ratio Lower Upper  
117 100  
82 49.3 43.2 64.8  
119 32.3 26.2 39.4

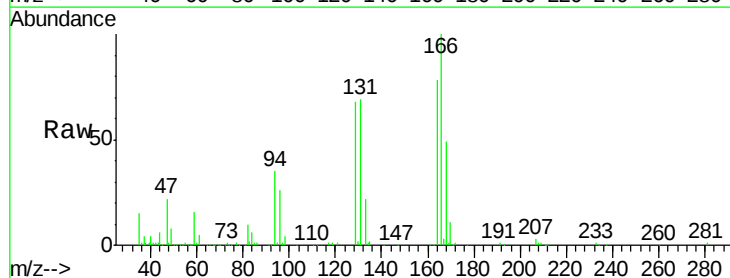


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 118.90 (118.60 to 119.60): V

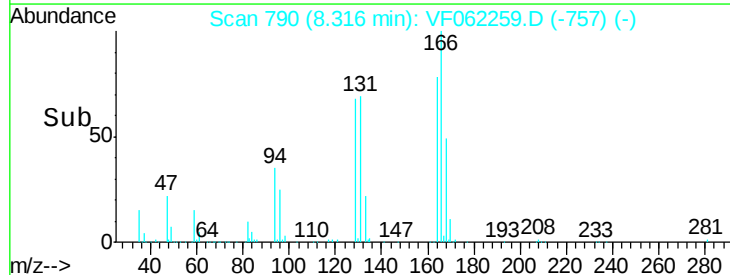
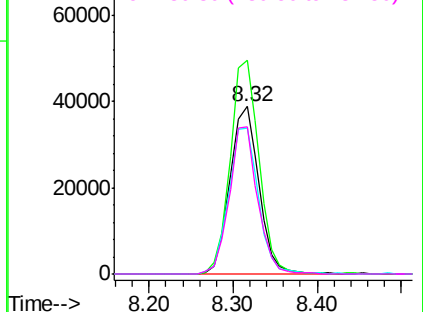


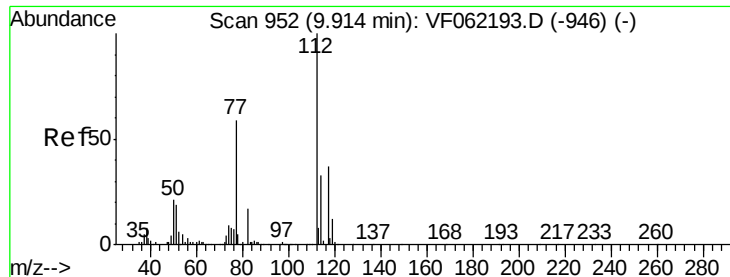
#64  
Tetrachloroethene  
Concen: 23.339 ug/l  
RT: 8.32 min Scan# 790  
Delta R.T. 0.03 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion:164 Resp: 93086  
Ion Ratio Lower Upper  
164 100  
166 127.6 104.7 157.1  
129 87.1 72.6 109.0  
131 87.6 71.6 107.4



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 21.939 ug/l

RT: 9.94 min Scan# 955

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

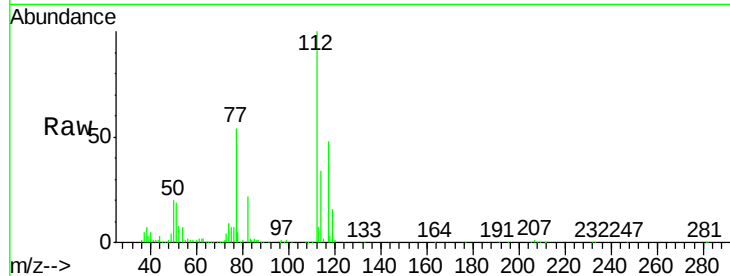
VF0423SBS01

Tot Ion:112 Resp: 206687

Ion Ratio Lower Upper

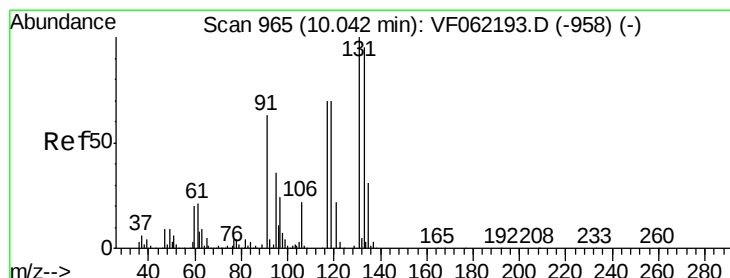
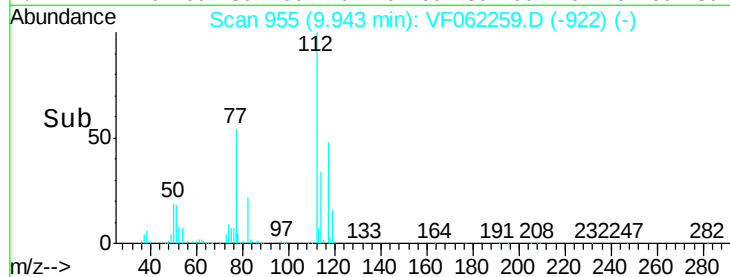
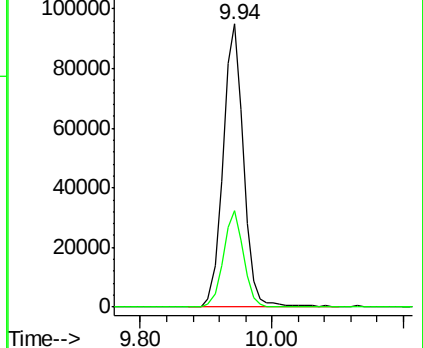
112 100

114 34.0 26.1 39.1



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.349 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

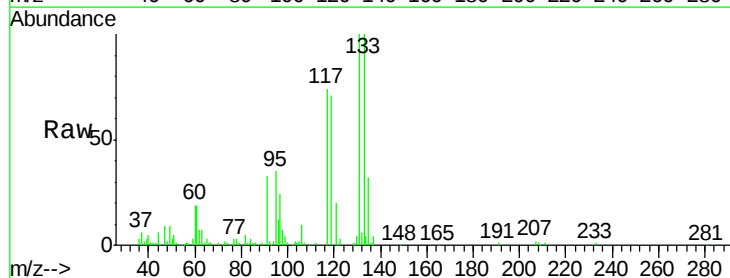
Tgt Ion:131 Resp: 98601

Ion Ratio Lower Upper

131 100

133 95.7 47.7 143.1

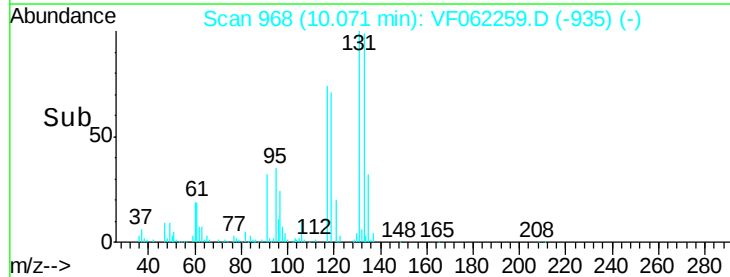
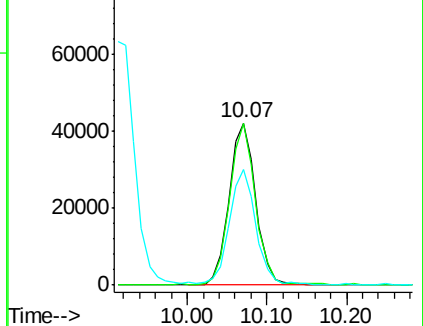
119 70.1 34.6 103.9

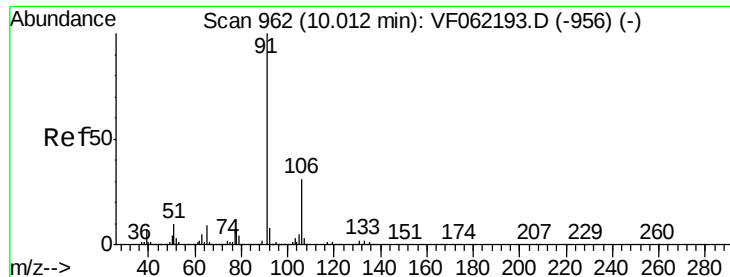


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 21.654 ug/l

RT: 10.04 min Scan# 965

Delta R.T. 0.03 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

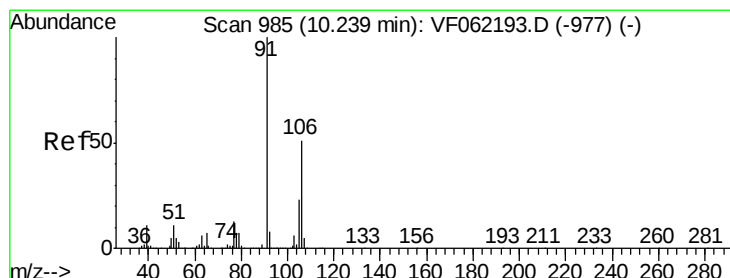
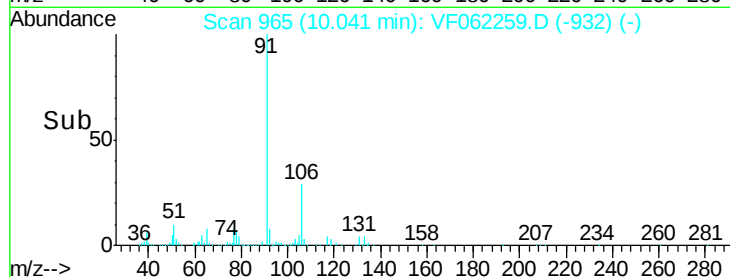
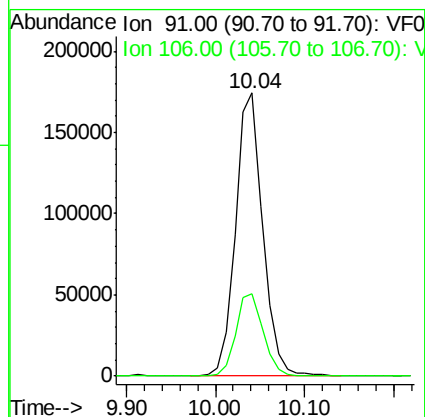
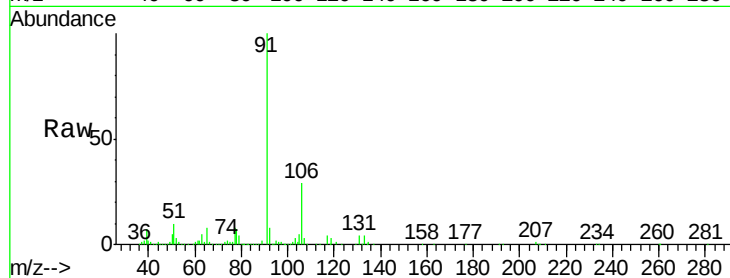
VF0423SBS01

Tot Ion: 91 Resp: 370969

Ion Ratio Lower Upper

91 100

106 28.9 24.9 37.3



#68

m/p-Xylenes

Concen: 45.531 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.03 min

Lab File: VF062259.D

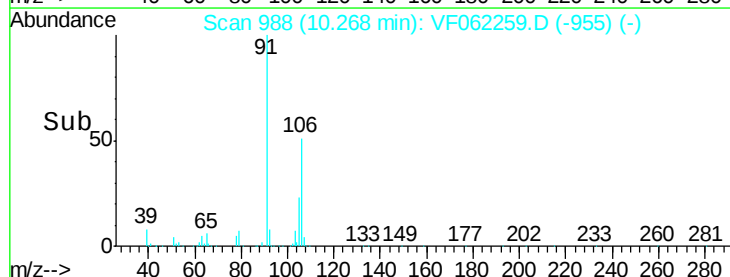
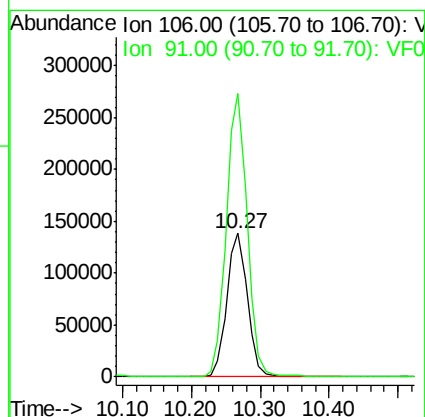
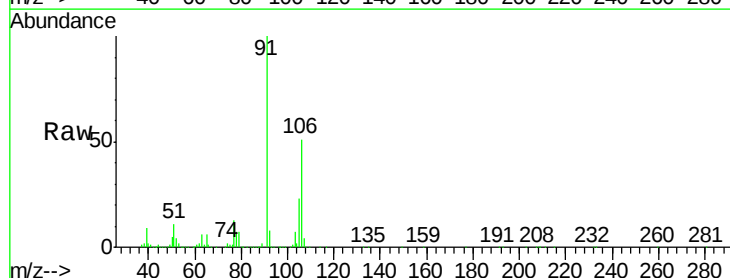
Acq: 23 Apr 2019 13:01

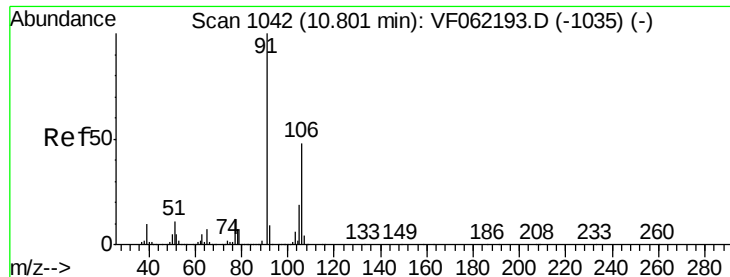
Tgt Ion: 106 Resp: 287138

Ion Ratio Lower Upper

106 100

91 198.8 159.1 238.7

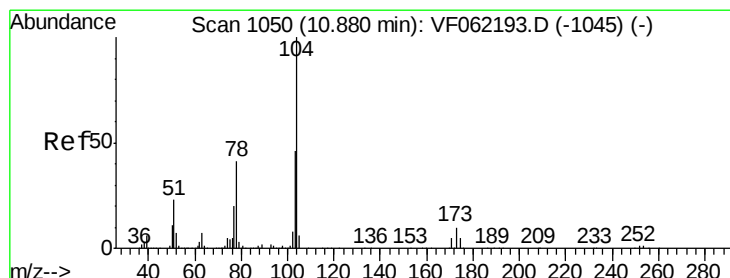
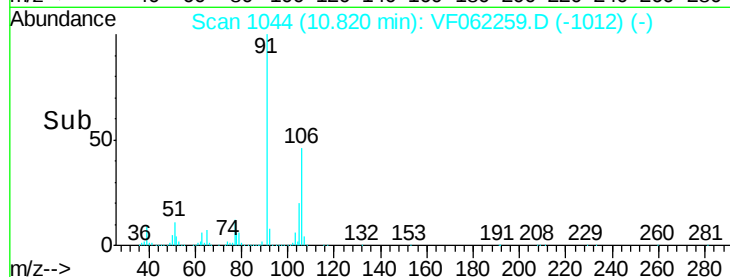
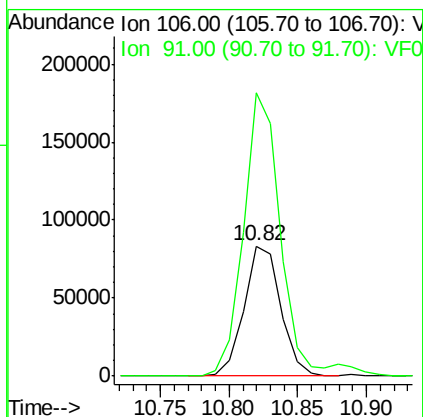
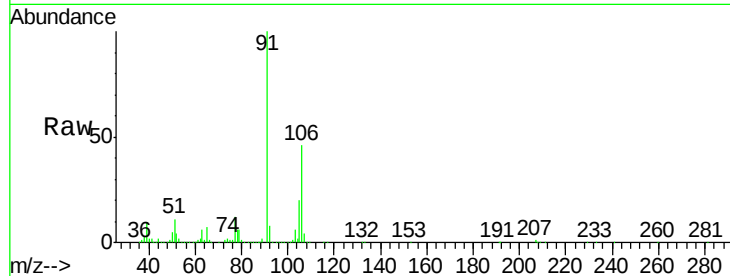




#69  
o-Xylene  
Concen: 22.295 ug/l  
RT: 10.82 min Scan# 1044  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

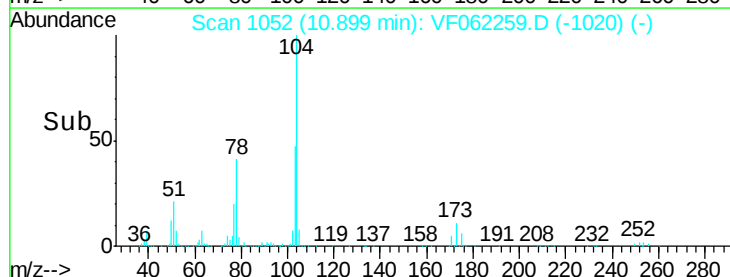
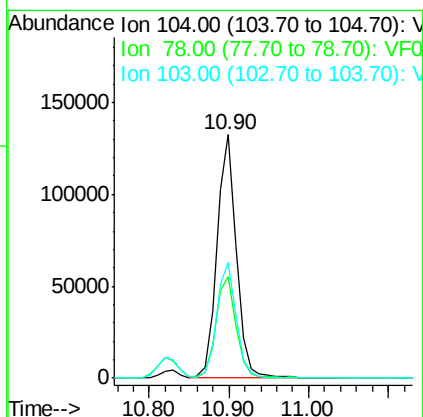
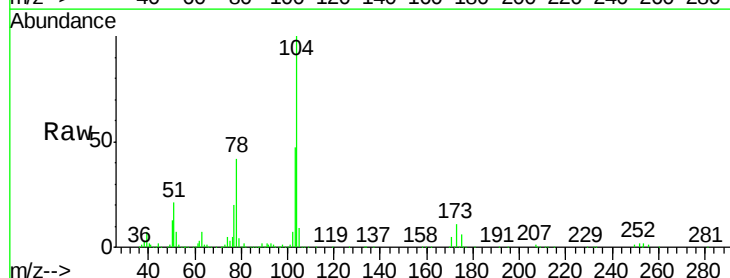
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

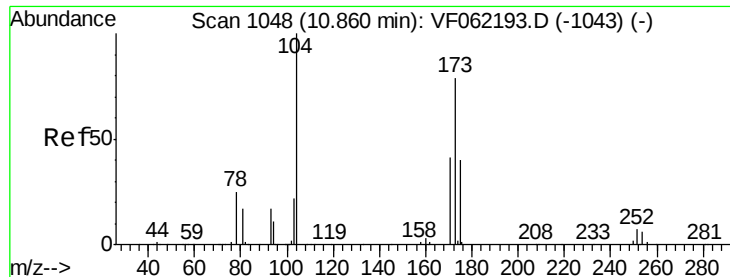
Tot Ion:106 Resp: 156104  
Ion Ratio Lower Upper  
106 100  
91 214.1 107.5 322.4



#70  
Styrene  
Concen: 22.906 ug/l  
RT: 10.90 min Scan# 1052  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion:104 Resp: 226335  
Ion Ratio Lower Upper  
104 100  
78 42.9 34.5 51.7  
103 48.1 37.2 55.8

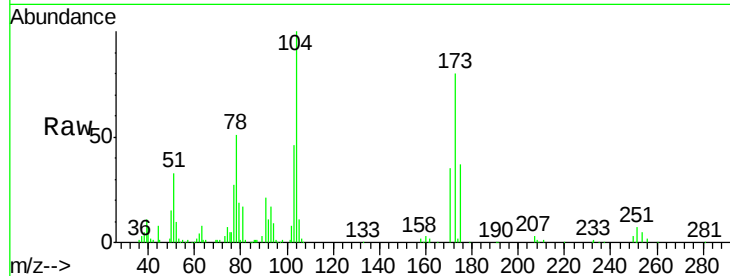




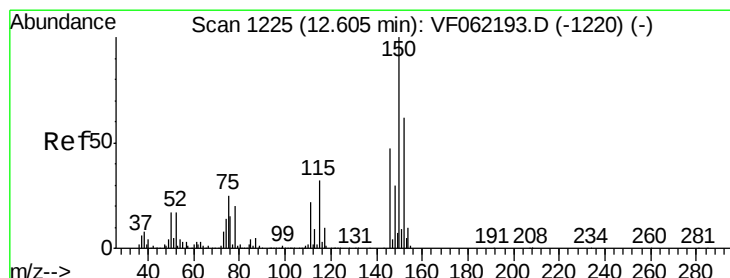
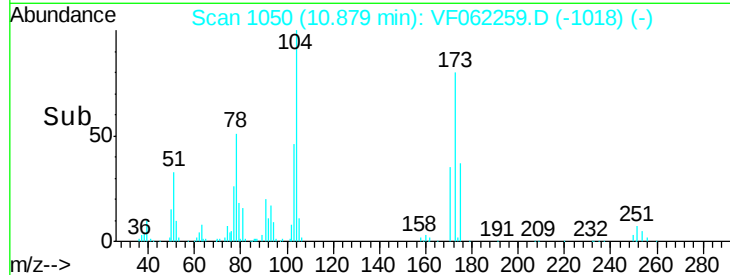
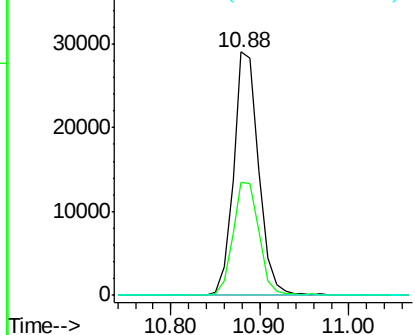
#71  
Bromoform  
Concen: 24.500 ug/l  
RT: 10.88 min Scan# 1050  
Delta R.T. 0.02 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0423SBS01

Tot Ion:173 Resp: 57071  
Ion Ratio Lower Upper  
173 100  
175 48.3 24.5 73.5  
254 0.0 0.1 0.1#

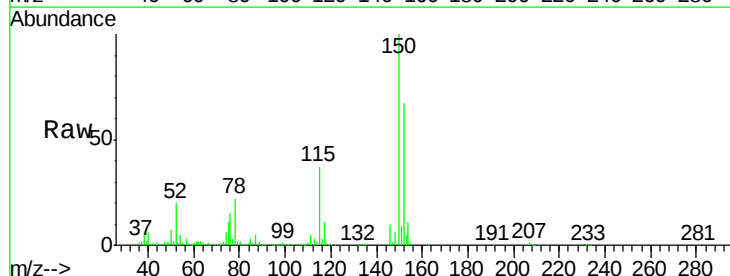


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

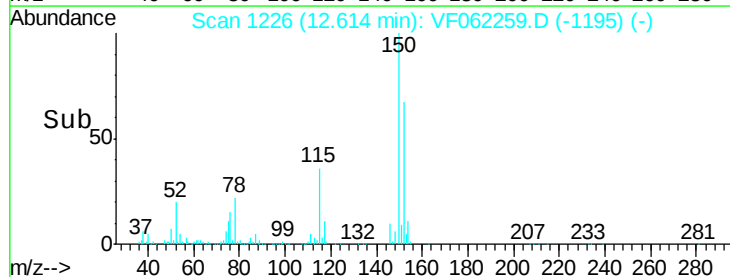
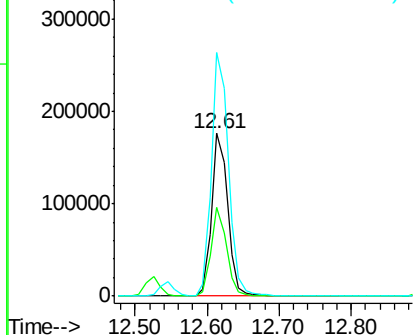


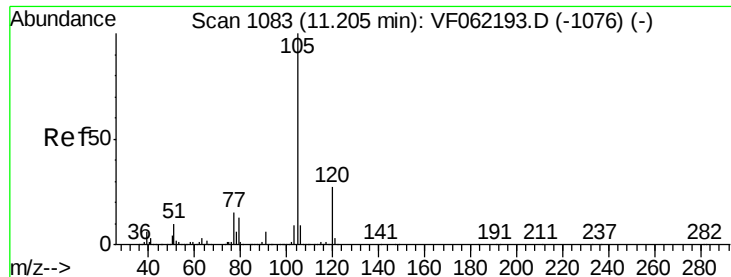
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.61 min Scan# 1226  
Delta R.T. 0.01 min  
Lab File: VF062259.D  
Acq: 23 Apr 2019 13:01

Tgt Ion:152 Resp: 271384  
Ion Ratio Lower Upper  
152 100  
115 52.8 27.8 83.3  
150 157.7 0.0 341.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.144 ug/l

RT: 11.22 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

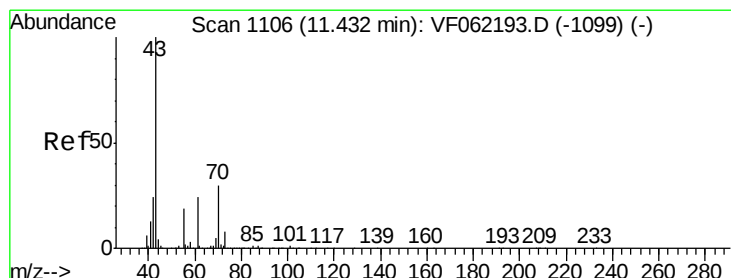
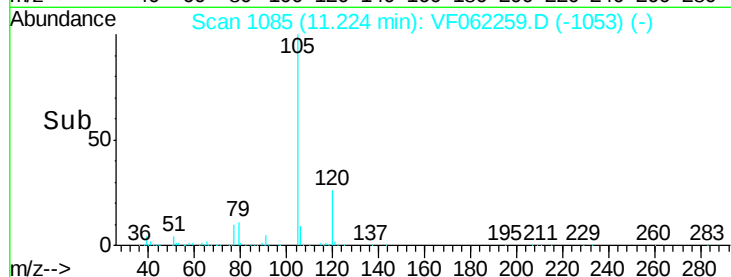
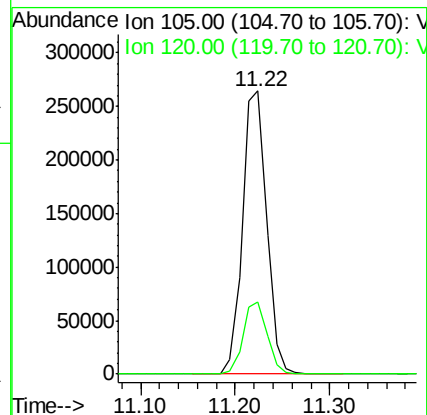
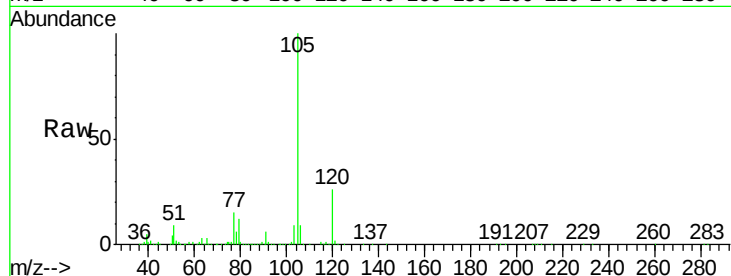
VF0423SBS01

Tot Ion:105 Resp: 469587

Ion Ratio Lower Upper

105 100

120 25.5 13.0 38.9



#74

N-ethyl acetate

Concen: 16.449 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Tgt Ion: 43 Resp: 99135

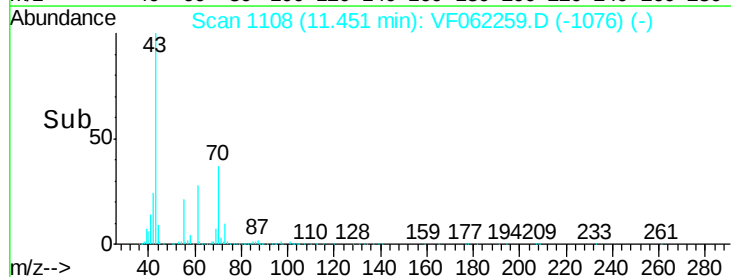
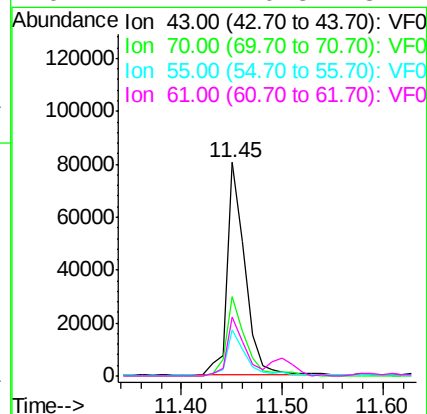
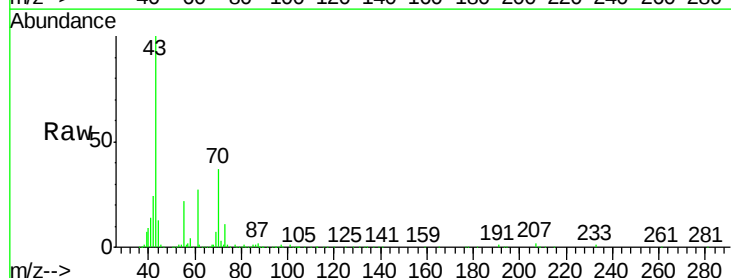
Ion Ratio Lower Upper

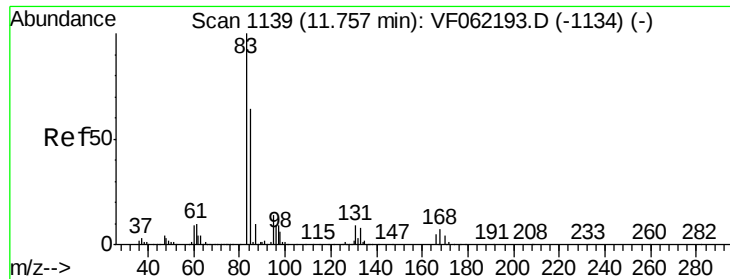
43 100

70 40.8 27.0 40.4#

55 23.5 15.7 23.5

61 27.4 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 18.925 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

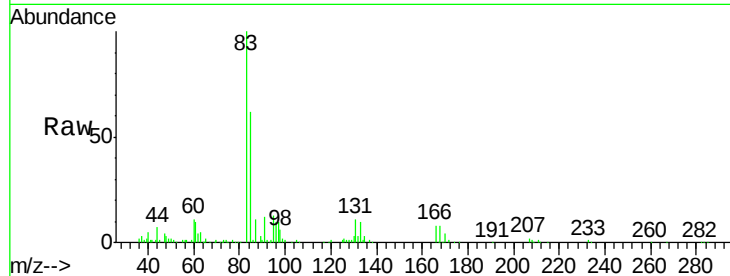
Tot Ion: 83 Resp: 75872

Ion Ratio Lower Upper

83 100

131 11.2 4.5 13.5

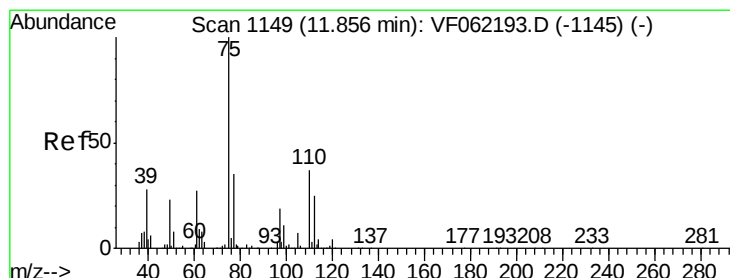
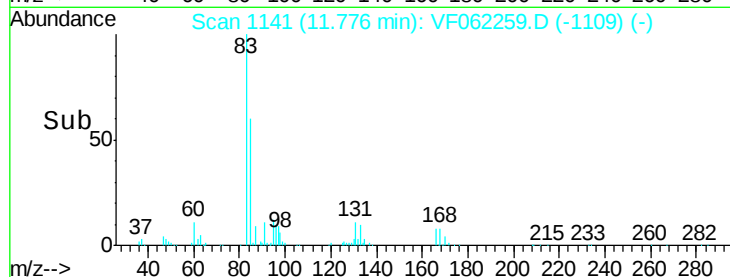
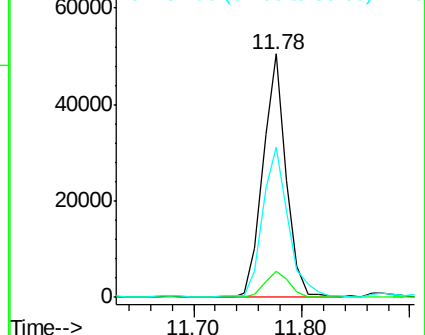
85 69.4 34.7 104.1



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 18.647 ug/l

RT: 11.87 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF062259.D

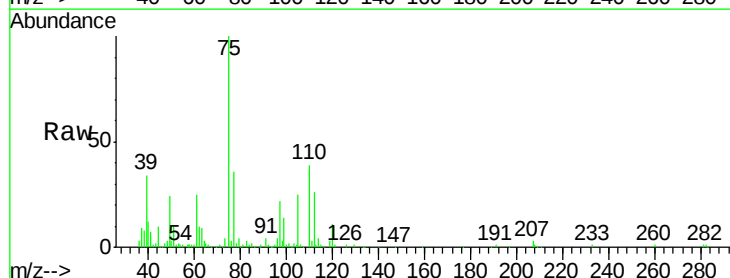
Acq: 23 Apr 2019 13:01

Tgt Ion: 75 Resp: 51433

Ion Ratio Lower Upper

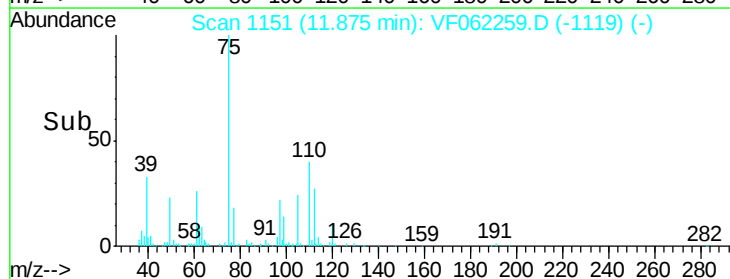
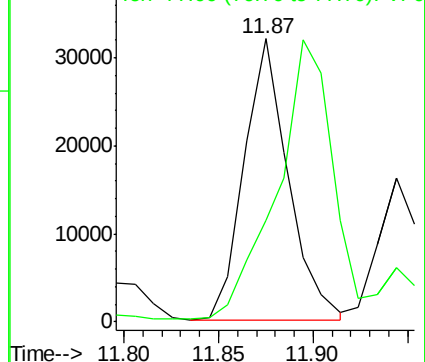
75 100

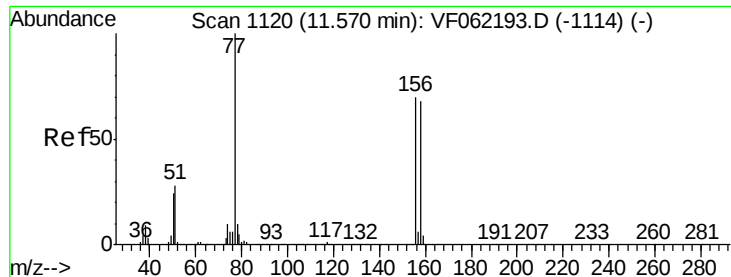
77 128.5 7.4 22.2#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 22.380 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

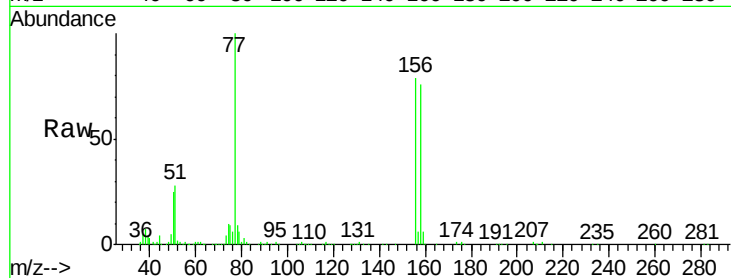
Tot Ion:156 Resp: 111765

Ion Ratio Lower Upper

156 100

77 141.9 80.9 242.7

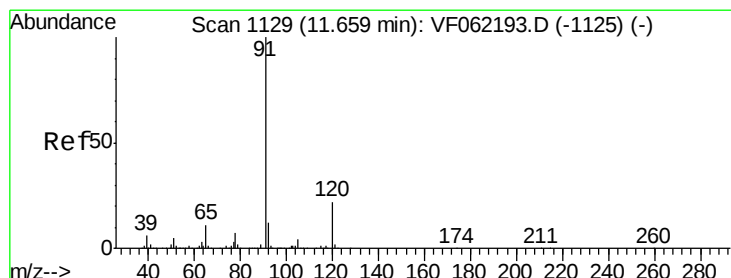
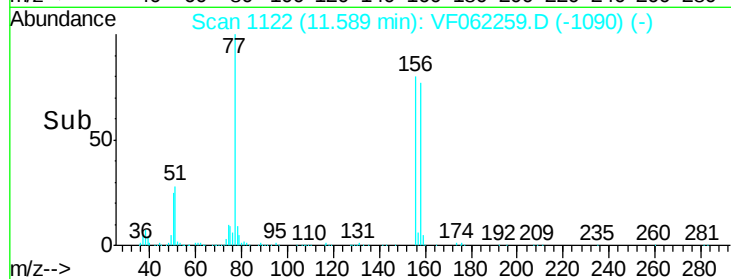
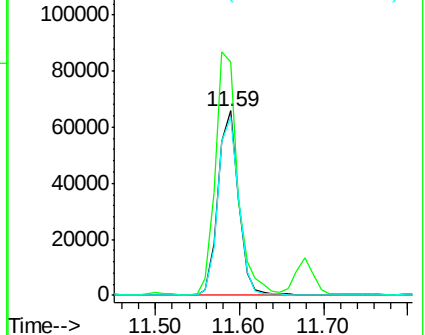
158 98.5 49.8 149.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.904 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.02 min

Lab File: VF062259.D

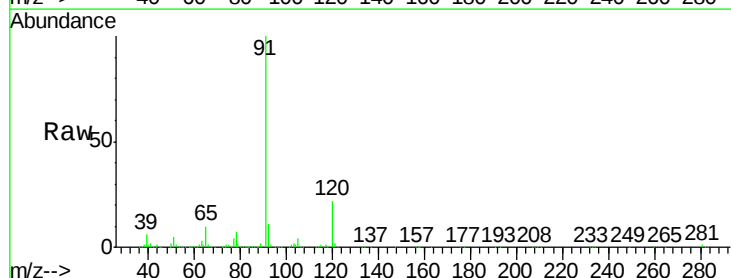
Acq: 23 Apr 2019 13:01

Tgt Ion: 91 Resp: 489474

Ion Ratio Lower Upper

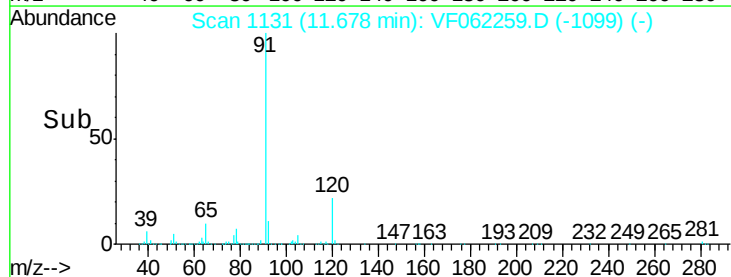
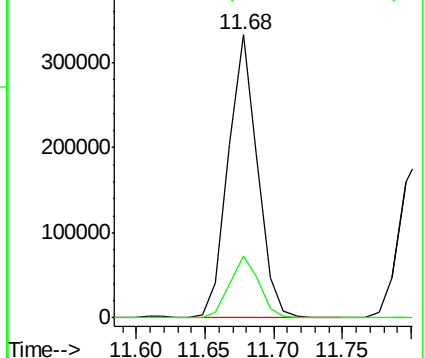
91 100

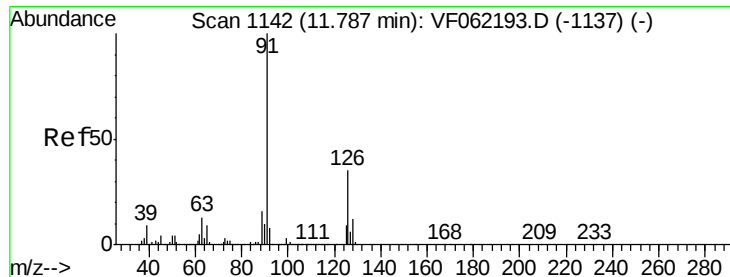
120 22.2 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.837 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

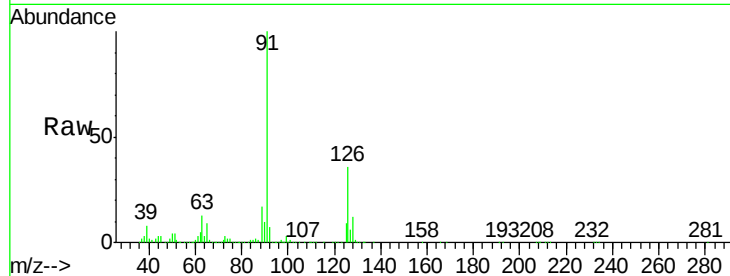
VF0423SBS01

Tot Ion: 91 Resp: 295917

Ion Ratio Lower Upper

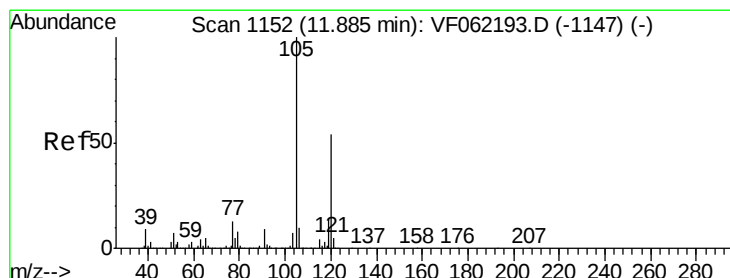
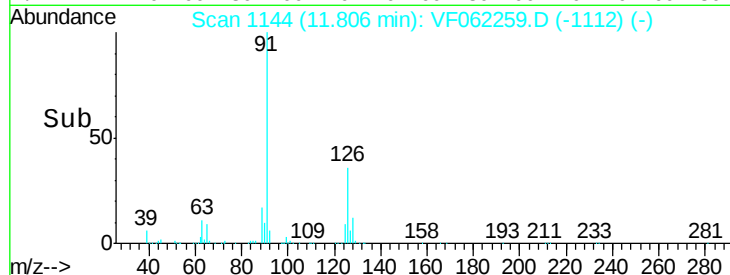
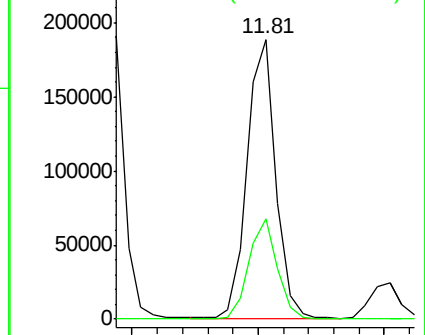
91 100

126 35.7 16.9 50.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 20.560 ug/l

RT: 11.90 min Scan# 1154

Delta R.T. 0.02 min

Lab File: VF062259.D

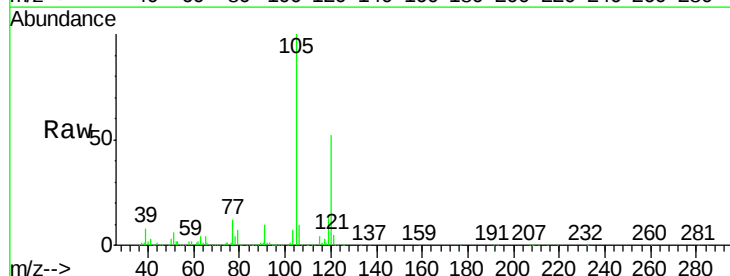
Acq: 23 Apr 2019 13:01

Tgt Ion:105 Resp: 399191

Ion Ratio Lower Upper

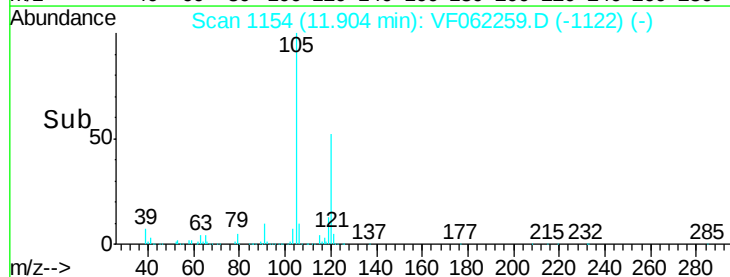
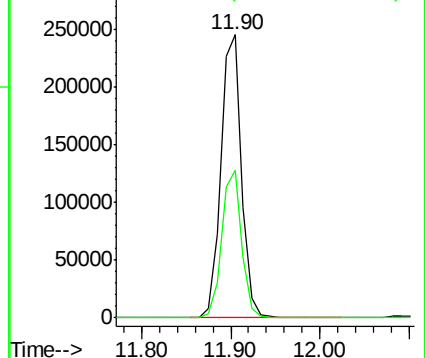
105 100

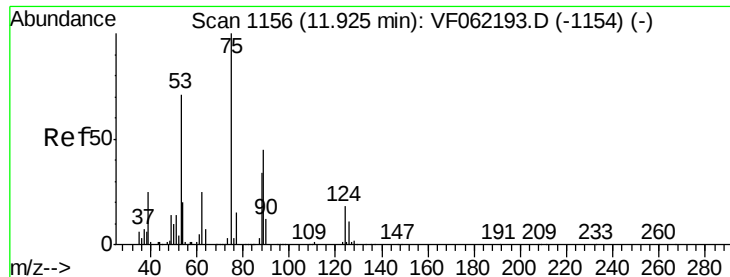
120 50.5 26.2 78.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 18.220 ug/l m

RT: 11.94 min Scan# 1158

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

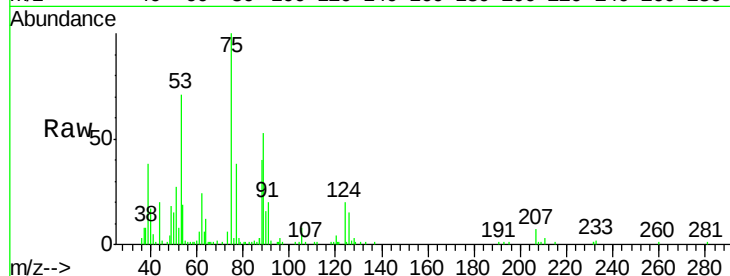
Tot Ion: 75 Resp: 25630

Ion Ratio Lower Upper

75 100

53 69.6 50.2 75.4

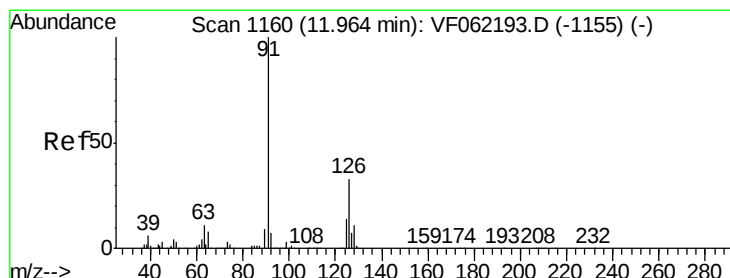
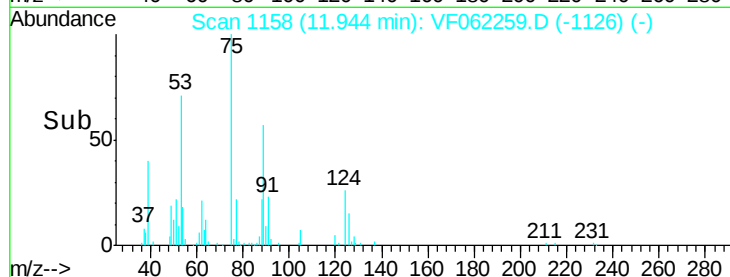
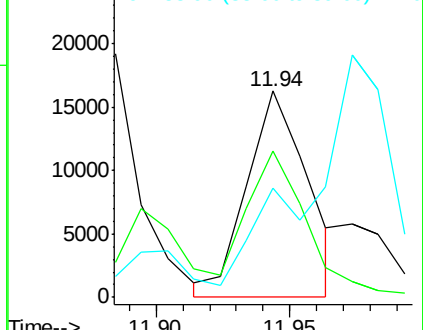
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#82

4-Chlorotoluene

Concen: 20.308 ug/l

RT: 11.97 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VF062259.D

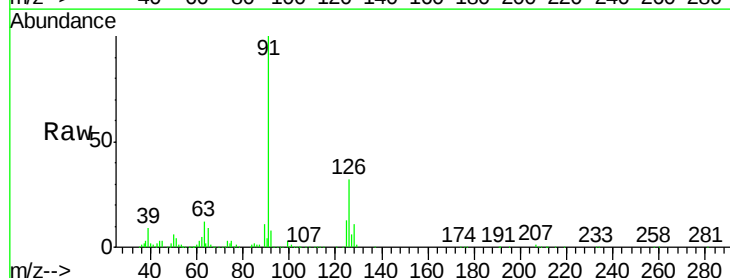
Acq: 23 Apr 2019 13:01

Tgt Ion: 91 Resp: 292780

Ion Ratio Lower Upper

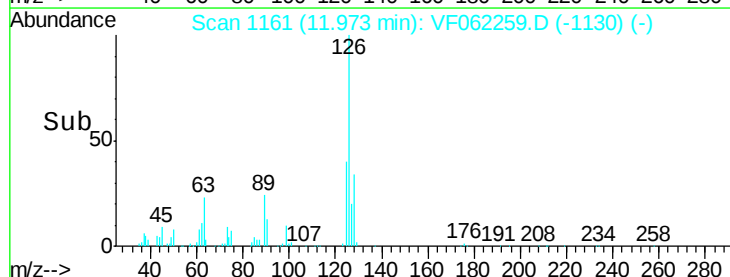
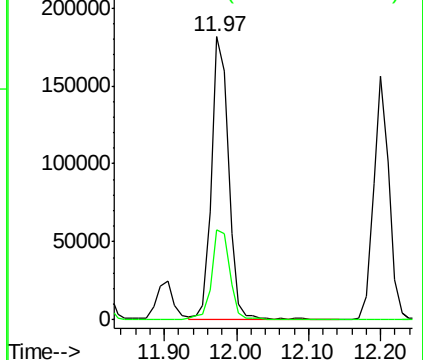
91 100

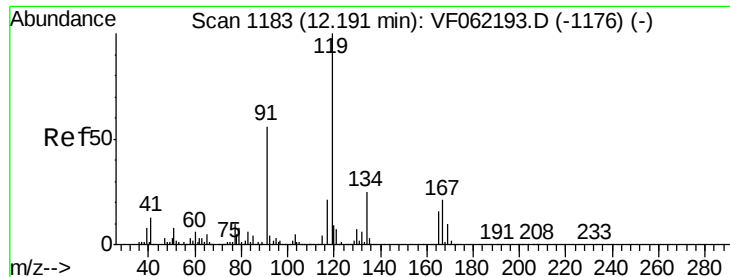
126 34.5 16.9 50.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 20.231 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

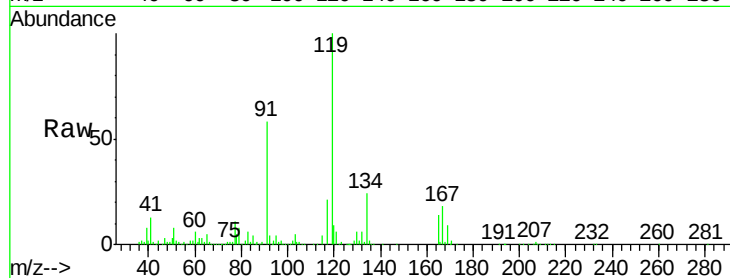
Tot Ion:119 Resp: 406204

Ion Ratio Lower Upper

119 100

91 56.8 29.4 88.2

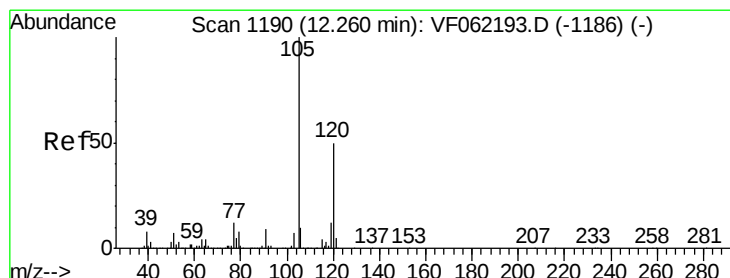
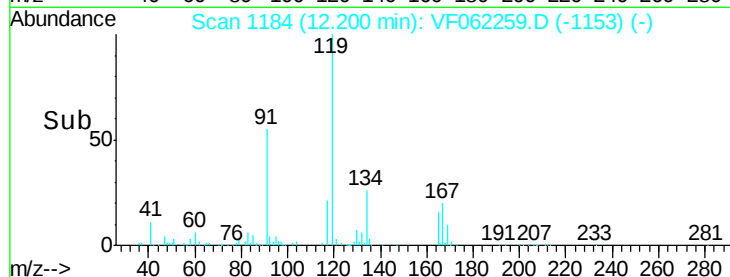
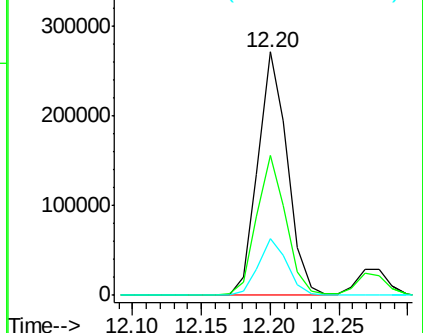
134 23.0 11.8 35.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.175 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. 0.01 min

Lab File: VF062259.D

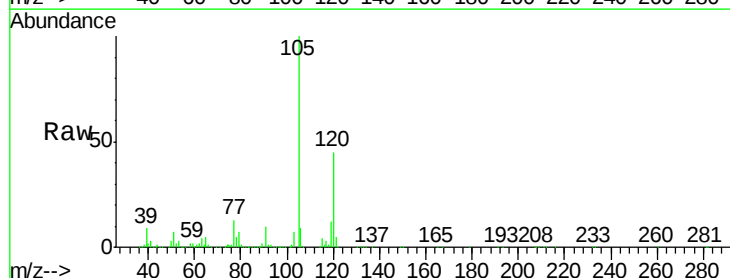
Acq: 23 Apr 2019 13:01

Tgt Ion:105 Resp: 379064

Ion Ratio Lower Upper

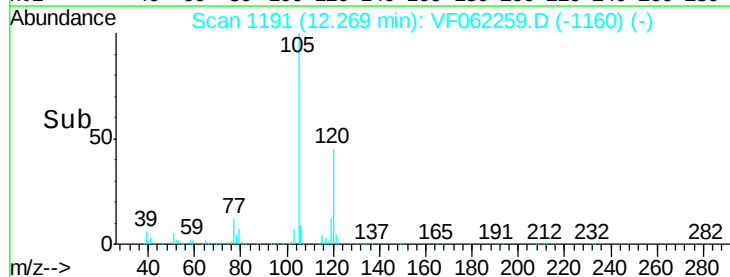
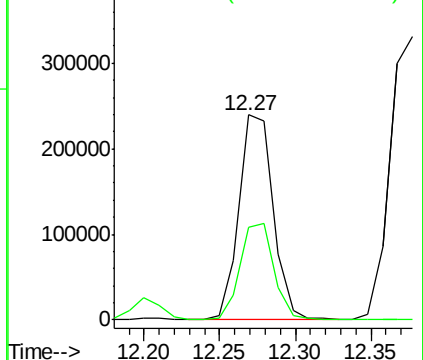
105 100

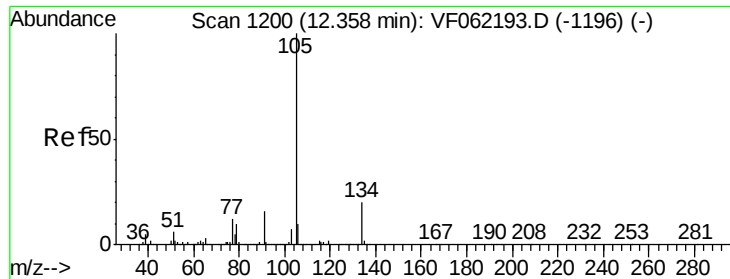
120 46.6 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.089 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

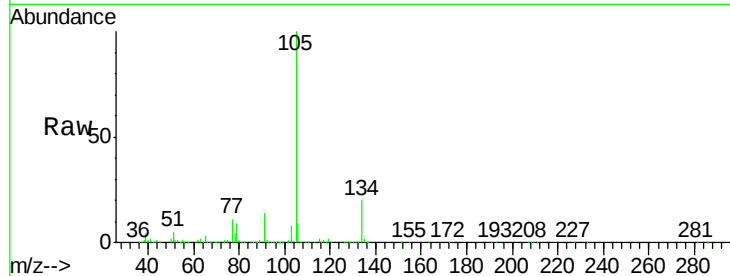
VF0423SBS01

Tot Ion:105 Resp: 523679

Ion Ratio Lower Upper

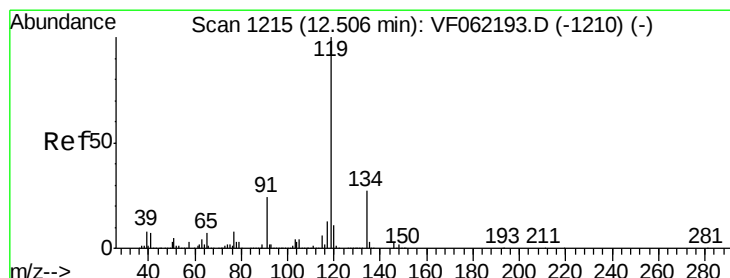
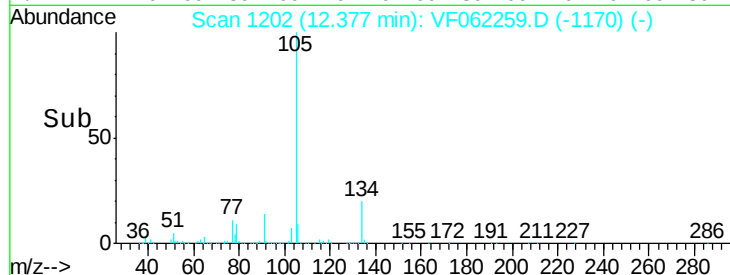
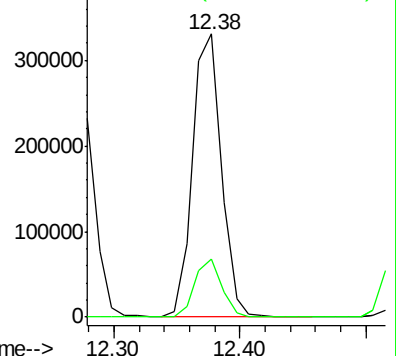
105 100

134 19.5 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.877 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

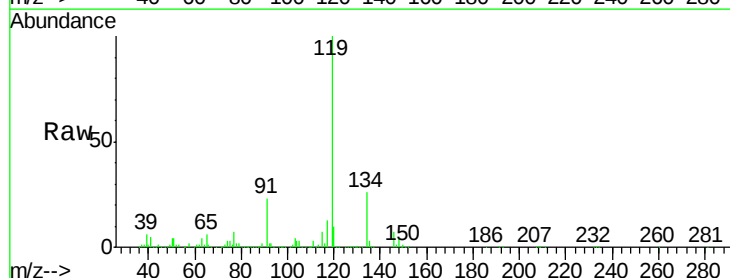
Tgt Ion:119 Resp: 461641

Ion Ratio Lower Upper

119 100

134 26.0 13.2 39.5

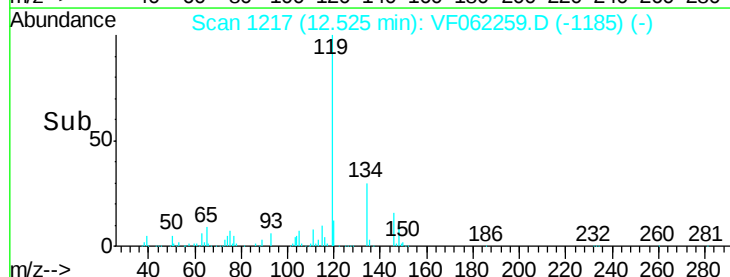
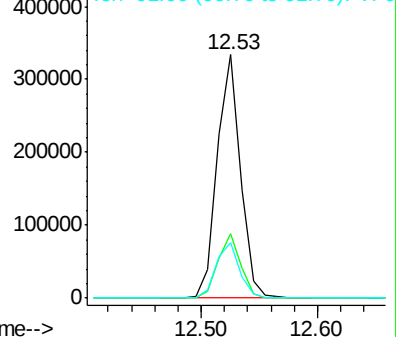
91 22.5 11.7 35.1

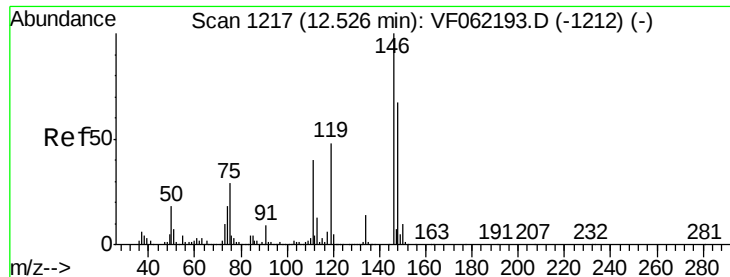


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

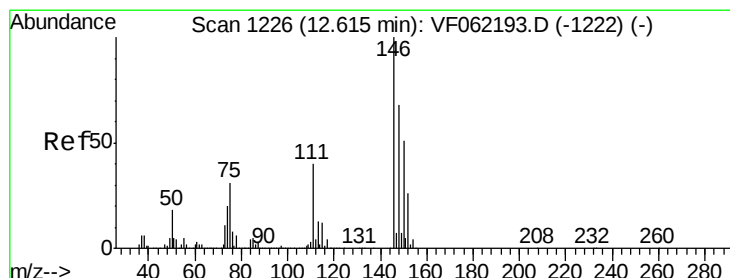
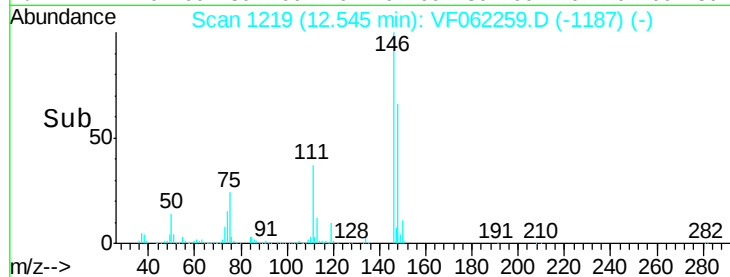
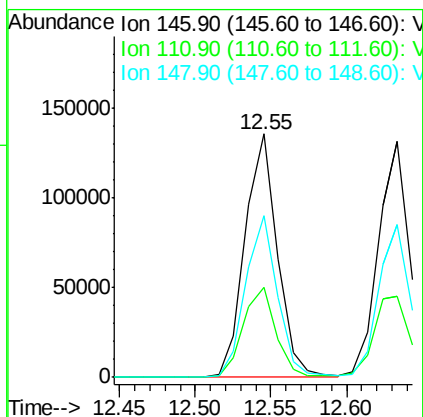
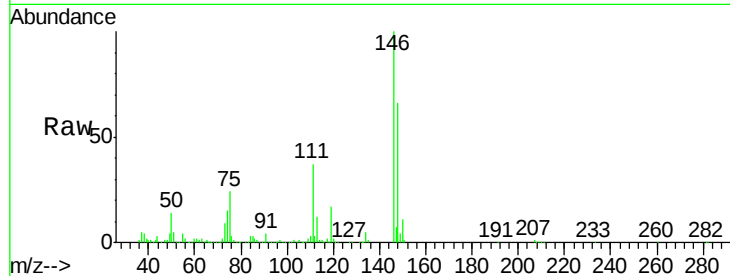




#87  
 1,3-Dichlorobenzene  
 Concen: 21.924 ug/l  
 RT: 12.55 min Scan# 1219  
 Delta R.T. 0.02 min  
 Lab File: VF062259.D  
 Acq: 23 Apr 2019 13:01

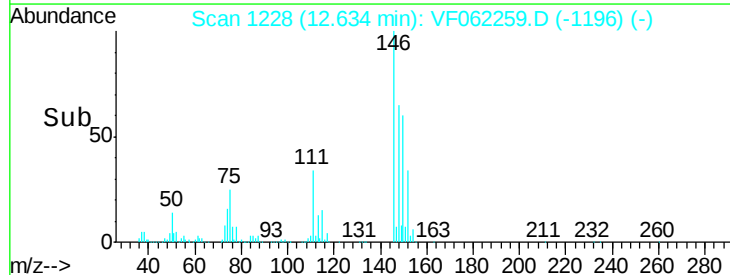
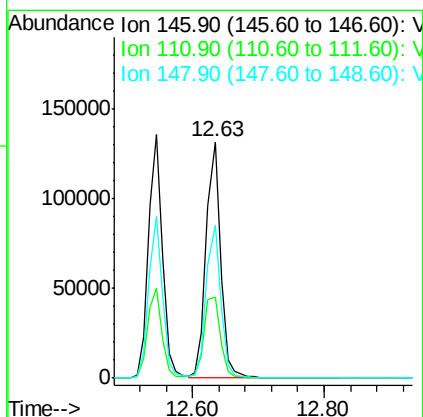
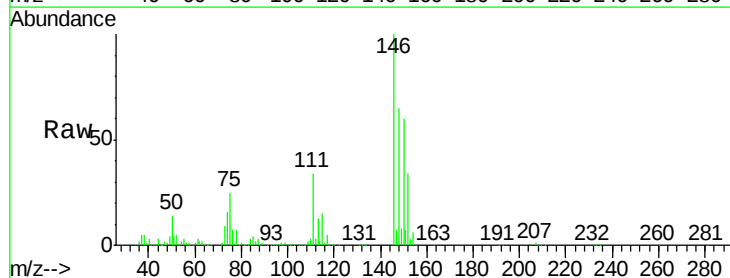
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0423SBS01

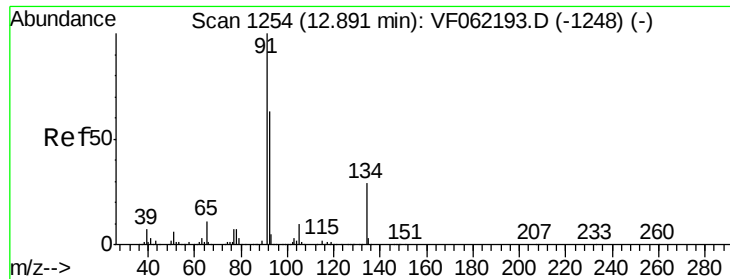
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.7  | 19.7  | 59.0  |
| 148     | 65.4  | 32.9  | 98.6  |



#88  
 1,4-Dichlorobenzene  
 Concen: 21.945 ug/l  
 RT: 12.63 min Scan# 1228  
 Delta R.T. 0.02 min  
 Lab File: VF062259.D  
 Acq: 23 Apr 2019 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.6  | 20.0  | 60.0  |
| 148     | 64.7  | 33.6  | 100.8 |





#89

n-Butylbenzene

Concen: 20.924 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

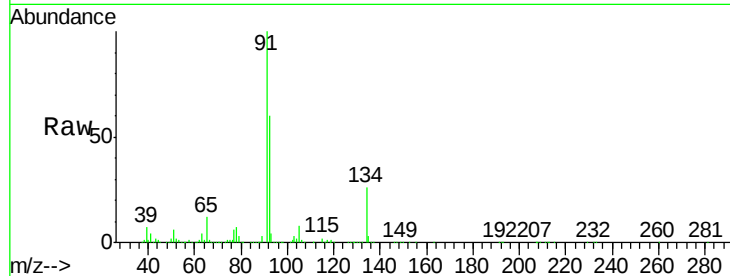
Tot Ion: 91 Resp: 435398

Ion Ratio Lower Upper

91 100

92 59.7 31.2 93.6

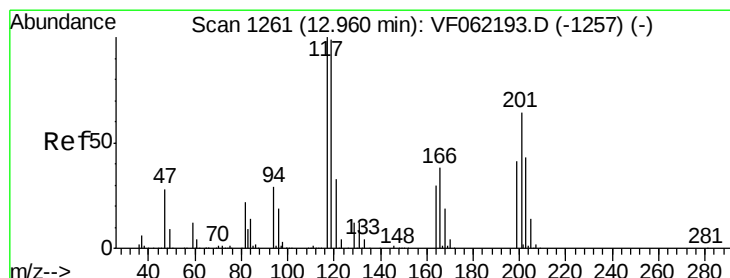
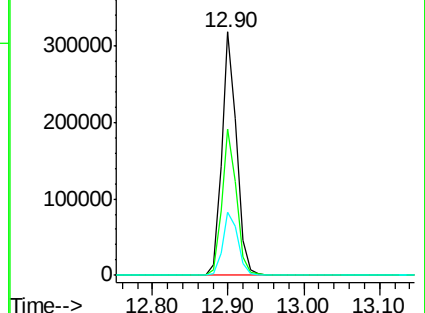
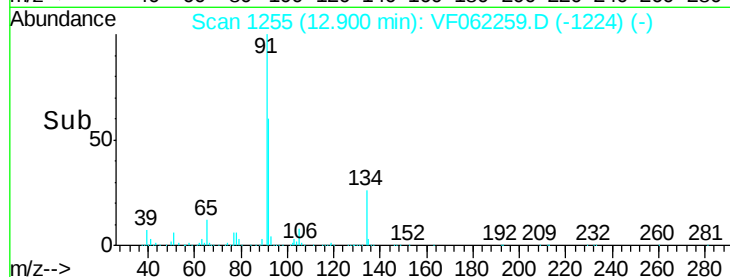
134 26.8 13.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 19.881 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. 0.02 min

Lab File: VF062259.D

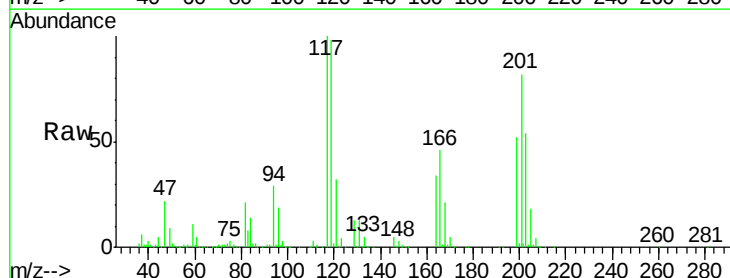
Acq: 23 Apr 2019 13:01

Tgt Ion: 117 Resp: 112891

Ion Ratio Lower Upper

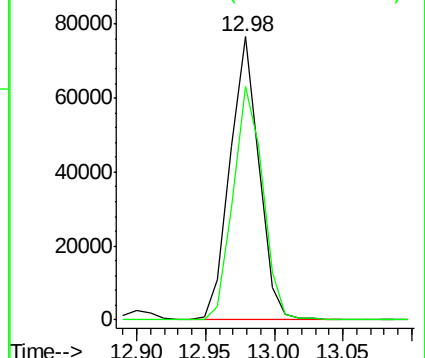
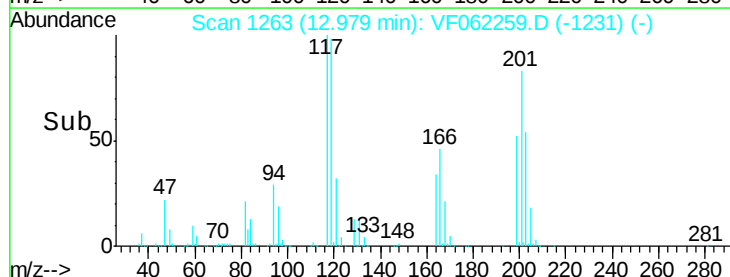
117 100

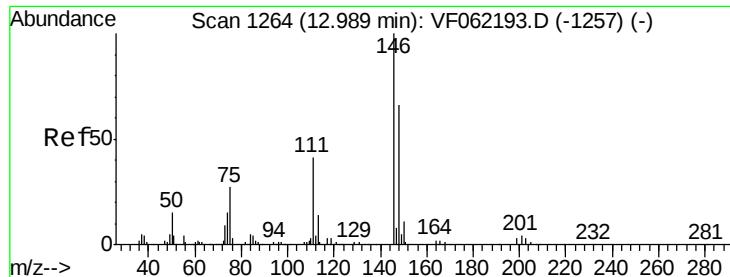
201 84.1 37.7 113.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

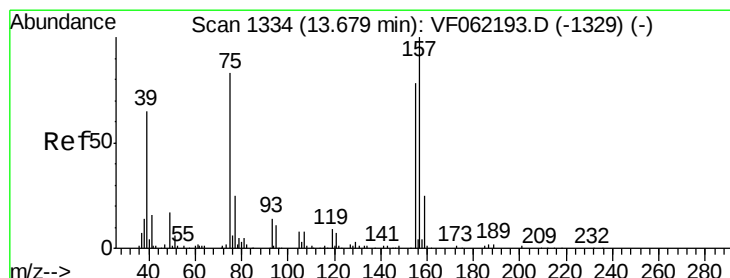
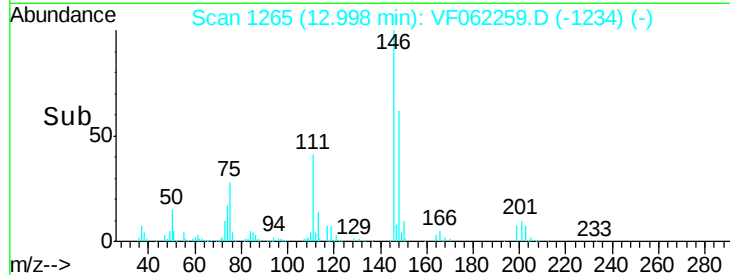
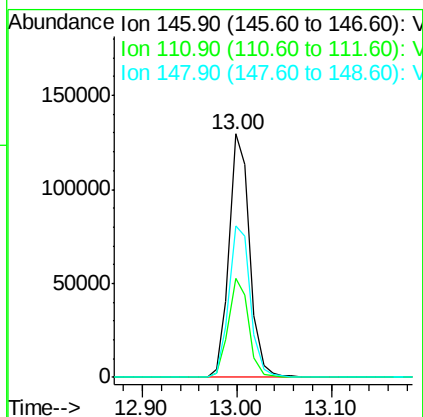
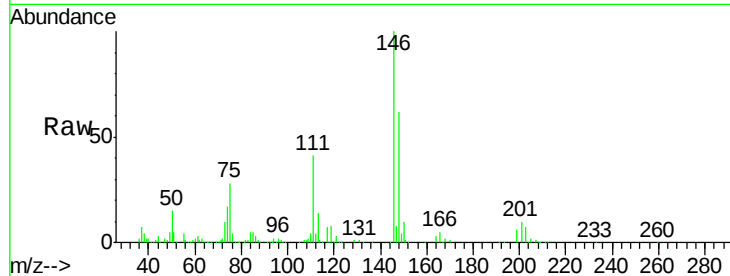




#91  
 1,2-Dichlorobenzene  
 Concen: 21.941 ug/l  
 RT: 13.00 min Scan# 1265  
 Delta R.T. 0.01 min  
 Lab File: VF062259.D  
 Acq: 23 Apr 2019 13:01

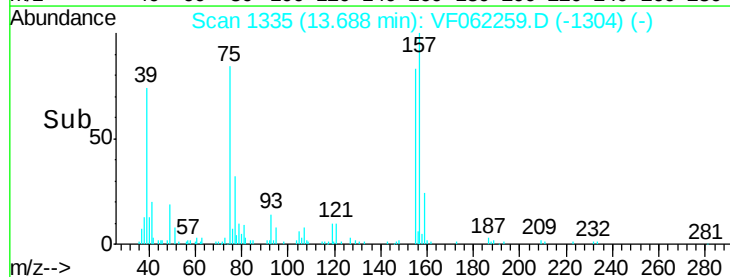
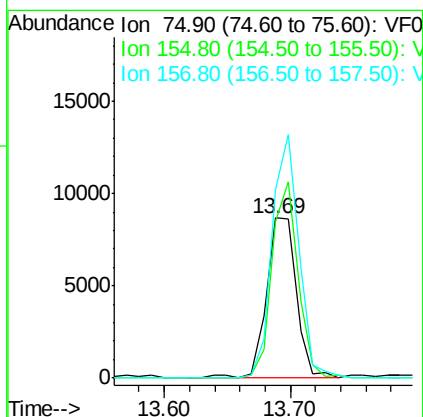
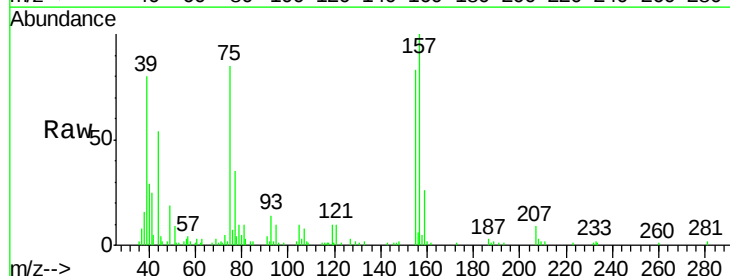
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0423SBS01

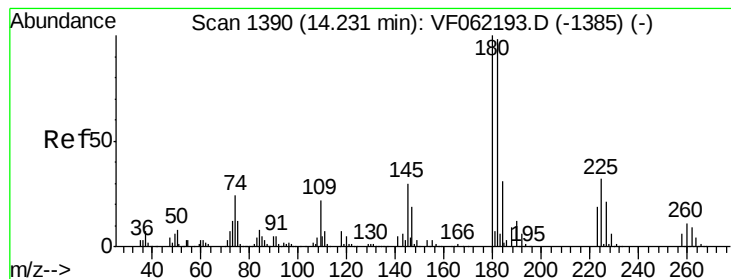
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.3  | 20.8  | 62.5  |
| 148     | 64.9  | 33.0  | 99.0  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 18.204 ug/l  
 RT: 13.69 min Scan# 1335  
 Delta R.T. 0.01 min  
 Lab File: VF062259.D  
 Acq: 23 Apr 2019 13:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 107.0 | 47.6  | 142.8 |
| 157     | 135.2 | 61.3  | 183.9 |





#93

1,2,4-Trichlorobenzene

Concen: 22.499 ug/l

RT: 14.24 min Scan# 1391

Delta R.T. 0.01 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

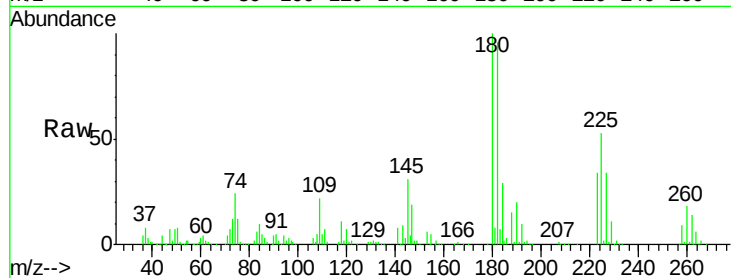
Tot Ion:180 Resp: 168451

Ion Ratio Lower Upper

180 100

182 96.7 49.3 147.9

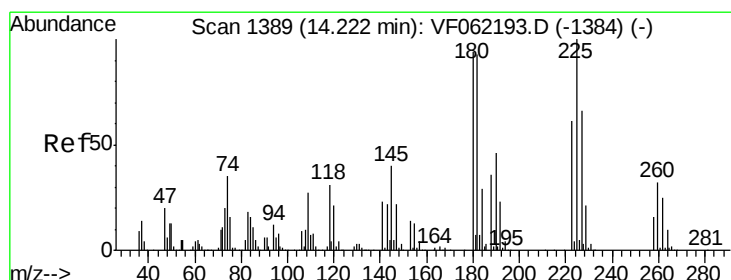
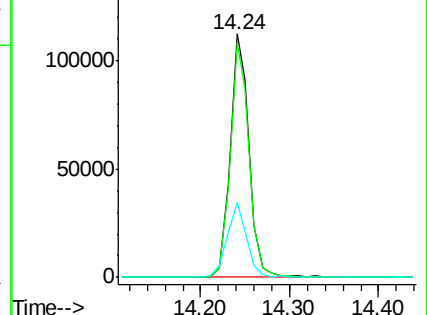
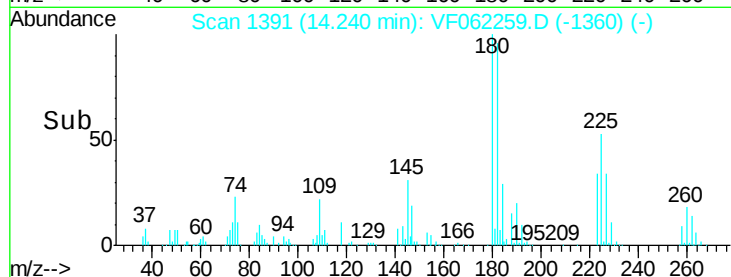
145 32.4 18.1 54.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 23.101 ug/l

RT: 14.23 min Scan# 1390

Delta R.T. 0.01 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

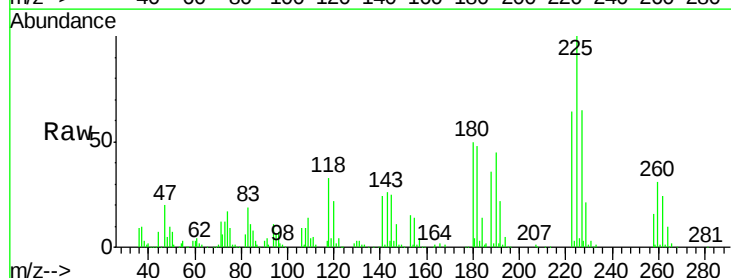
Tgt Ion:225 Resp: 118593

Ion Ratio Lower Upper

225 100

223 64.1 31.0 93.0

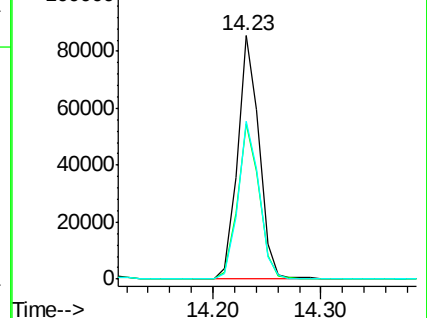
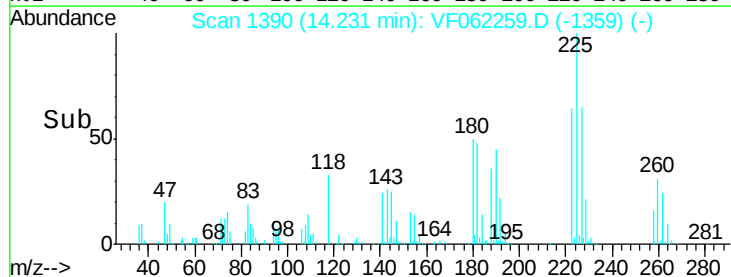
227 64.0 32.4 97.0

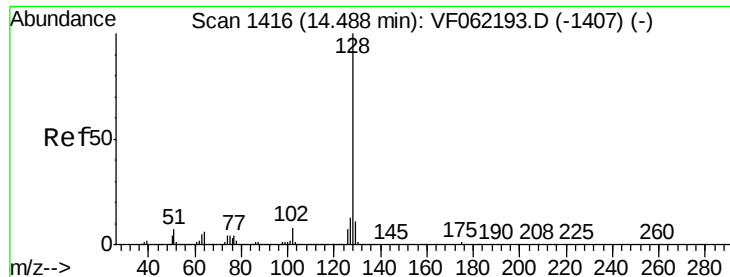


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 19.373 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. 0.01 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

Instrument :

MSVOA\_F

ClientSampleId :

VF0423SBS01

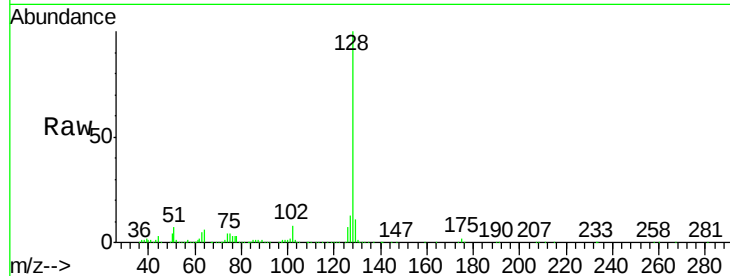
Tot Ion:128 Resp: 253614

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

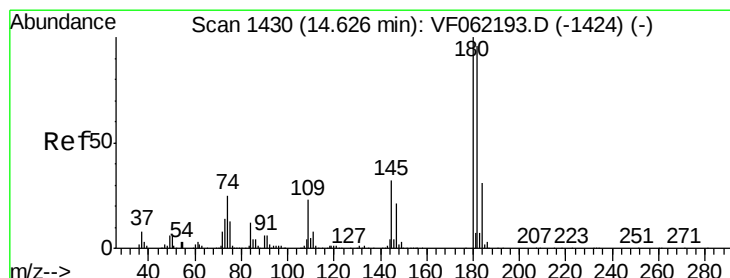
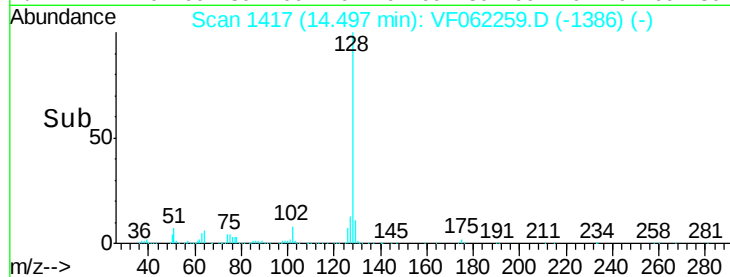
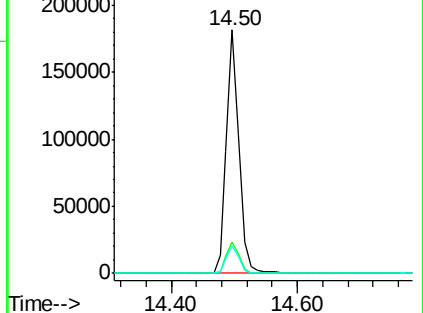
129 11.6 9.2 13.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 22.704 ug/l

RT: 14.64 min Scan# 1432

Delta R.T. 0.02 min

Lab File: VF062259.D

Acq: 23 Apr 2019 13:01

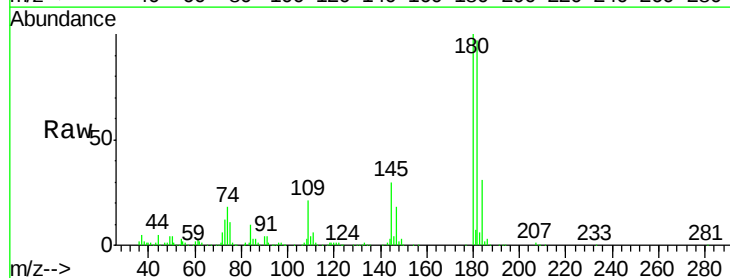
Tgt Ion:180 Resp: 163190

Ion Ratio Lower Upper

180 100

182 96.8 48.4 145.3

145 29.2 15.6 46.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

