

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051419\  
 Data File : VF062585.D  
 Acq On : 14 May 2019 16:23  
 Operator : FY/SY  
 Sample : VSTDIC020  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

Quant Time: May 15 04:37:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 15 04:31:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.09  | 168  | 607455   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.80  | 114  | 968523   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.93  | 117  | 713399   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 354776   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.06  | 65   | 89017    | 13.53 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 27.06% |          |
| 35) Dibromofluoromethane    | 4.34  | 113  | 155903   | 21.61 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 43.22% |          |
| 50) Toluene-d8              | 7.74  | 98   | 346755   | 17.09 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 34.18% |          |
| 62) 4-Bromofluorobenzene    | 11.51 | 95   | 121913   | 15.04 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 30.08% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.01 | 85   | 146441   | 17.516 | ug/l   | 96     |
| 3) Chloromethane              | 1.14 | 50   | 159388   | 21.887 | ug/l   | 92     |
| 4) Vinyl Chloride             | 1.19 | 62   | 159359   | 22.084 | ug/l # | 88     |
| 5) Bromomethane               | 1.39 | 94   | 65740    | 11.603 | ug/l   | 97     |
| 6) Chloroethane               | 1.45 | 64   | 46682    | 12.529 | ug/l   | 92     |
| 7) Trichlorofluoromethane     | 1.56 | 101  | 202126   | 19.286 | ug/l   | 94     |
| 8) Diethyl Ether              | 1.73 | 74   | 42302    | 19.059 | ug/l   | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.91 | 101  | 140136   | 20.486 | ug/l # | 90     |
| 10) Methyl Iodide             | 1.98 | 142  | 239738   | 20.649 | ug/l   | 98     |
| 11) Tert butyl alcohol        | 2.71 | 59   | 27337    | 88.569 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 1.88 | 96   | 121913   | 19.683 | ug/l   | 93     |
| 13) Acrolein                  | 2.01 | 56   | 866      | 2.906  | ug/l   | 85     |
| 14) Allyl chloride            | 2.21 | 41   | 136208   | 17.402 | ug/l   | 99     |
| 15) Acrylonitrile             | 3.11 | 53   | 88046    | 95.375 | ug/l   | 96     |
| 16) Acetone                   | 2.37 | 43   | 91804    | 72.255 | ug/l   | 94     |
| 17) Carbon Disulfide          | 1.92 | 76   | 303562   | 15.991 | ug/l   | 94     |
| 18) Methyl Acetate            | 2.48 | 43   | 44185    | 14.353 | ug/l   | 93     |
| 19) Methyl tert-butyl Ether   | 2.57 | 73   | 186528   | 16.651 | ug/l   | 96     |
| 20) Methylene Chloride        | 2.31 | 84   | 63354    | 8.519  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 2.45 | 96   | 125212   | 22.470 | ug/l   | 96     |
| 22) Diisopropyl ether         | 2.96 | 45   | 258652   | 14.303 | ug/l   | 98     |
| 23) Vinyl Acetate             | 3.37 | 43   | 745635   | 85.767 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 3.04 | 63   | 214340   | 19.611 | ug/l   | 100    |
| 25) 2-Butanone                | 4.56 | 43   | 215747   | 90.504 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 3.81 | 77   | 113764   | 19.602 | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 3.68 | 96   | 163810   | 22.193 | ug/l   | 100    |
| 28) Bromochloromethane        | 3.93 | 49   | 114498   | 23.196 | ug/l   | 90     |
| 29) Tetrahydrofuran           | 4.30 | 42   | 89087    | 86.578 | ug/l   | 98     |
| 30) Chloroform                | 4.08 | 83   | 248977   | 18.904 | ug/l   | 89     |
| 31) Cyclohexane               | 3.90 | 56   | 226435   | 20.997 | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 4.33 | 97   | 171848   | 19.794 | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 4.51 | 75   | 186322   | 17.791 | ug/l   | 96     |
| 37) Ethyl Acetate             | 4.34 | 43   | 76171    | 15.721 | ug/l   | 88     |
| 38) Carbon Tetrachloride      | 4.21 | 117  | 161070   | 19.929 | ug/l   | 91     |

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 Sample : VSTDIC020  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

Quant Time: May 15 04:37:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 15 04:31:17 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.66  | 83   | 217968   | 20.583  | ug/l   | 92       |
| 40) Benzene                    | 4.85  | 78   | 506901   | 21.479  | ug/l   | 96       |
| 41) Methacrylonitrile          | 4.96  | 41   | 41950    | 15.363  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 5.16  | 62   | 106819   | 12.942  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 7.14  | 43   | 83114    | 15.892  | ug/l # | 93       |
| 44) Trichloroethene            | 5.72  | 130  | 139388   | 19.524  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 6.44  | 63   | 127402   | 22.684  | ug/l   | 93       |
| 46) Dibromomethane             | 6.29  | 93   | 71620    | 19.145  | ug/l   | 97       |
| 47) Bromodichloromethane       | 6.58  | 83   | 156630   | 15.857  | ug/l   | 99       |
| 48) Methyl methacrylate        | 6.90  | 41   | 46523    | 11.979  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 6.89  | 88   | 11528    | 456.191 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone       | 8.43  | 43   | 317084   | 80.389  | ug/l   | 93       |
| 52) Toluene                    | 7.81  | 92   | 267288   | 18.256  | ug/l   | 93       |
| 53) t-1,3-Dichloropropene      | 8.45  | 75   | 124227   | 15.669  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 7.48  | 75   | 168264   | 17.100  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 8.66  | 97   | 75185    | 18.356  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.78  | 69   | 83665    | 15.586  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.02  | 76   | 125655   | 18.218  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 7.47  | 63   | 134915   | 158.917 | ug/l   | 94       |
| 59) 2-Hexanone                 | 9.64  | 43   | 205426   | 73.958  | ug/l   | 95       |
| 60) Dibromochloromethane       | 8.88  | 129  | 95584    | 16.386  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 9.16  | 107  | 76410    | 17.738  | ug/l   | 98       |
| 64) Tetrachloroethene          | 8.33  | 164  | 102041   | 19.631  | ug/l   | 93       |
| 65) Chlorobenzene              | 9.96  | 112  | 262537   | 19.139  | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.09 | 131  | 108656   | 18.354  | ug/l   | 95       |
| 67) Ethyl Benzene              | 10.06 | 91   | 479227   | 18.074  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.28 | 106  | 345303   | 36.344  | ug/l   | 96       |
| 69) o-Xylene                   | 10.83 | 106  | 180360   | 18.872  | ug/l   | 88       |
| 70) Styrene                    | 10.91 | 104  | 278228   | 19.027  | ug/l   | 99       |
| 71) Bromoform                  | 10.89 | 173  | 48721    | 16.110  | ug/l   | 94       |
| 73) Isopropylbenzene           | 11.23 | 105  | 517934   | 18.086  | ug/l   | 96       |
| 74) N-amyl acetate             | 11.47 | 43   | 123364   | 16.097  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.78 | 83   | 100641   | 21.518  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.88 | 75   | 66905    | 19.059  | ug/l   | 82       |
| 77) Bromobenzene               | 11.59 | 156  | 115840   | 19.104  | ug/l   | 94       |
| 78) n-propylbenzene            | 11.68 | 91   | 636903   | 19.111  | ug/l   | 90       |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 328710   | 17.268  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.91 | 105  | 415854   | 17.426  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 36743    | 26.025  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 11.99 | 91   | 338833   | 17.607  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 429451   | 17.776  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 389589   | 16.390  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 12.38 | 105  | 585053   | 19.008  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.53 | 119  | 489836   | 17.913  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.55 | 146  | 225432   | 19.638  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.64 | 146  | 212626   | 18.274  | ug/l   | 94       |
| 89) n-Butylbenzene             | 12.90 | 91   | 506503   | 19.046  | ug/l   | 92       |
| 90) Hexachloroethane           | 12.98 | 117  | 113907   | 17.732  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 13.01 | 146  | 192052   | 17.669  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 12300    | 12.669  | ug/l   | 69       |

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Acq On : 14 May 2019 16:23  
Operator : FY/SY  
Sample : VSTDICC020  
Misc : 5.00g/5mL/MSVOA F/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICC020

Quant Time: May 15 04:37:31 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 15 04:31:17 2019  
Response via : Initial Calibration

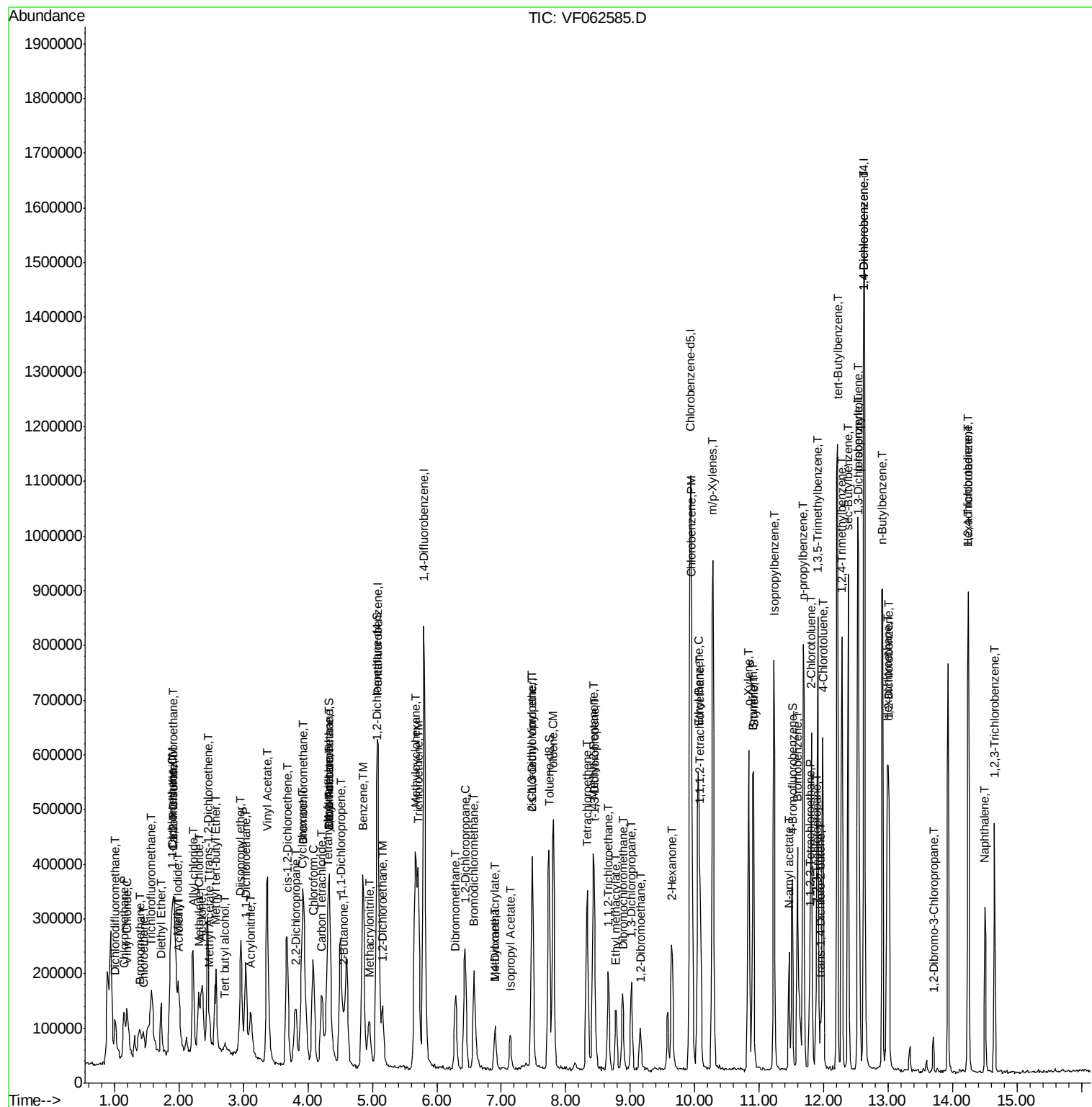
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.24 | 180  | 137661   | 17.354 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.24 | 225  | 98427    | 19.117 | ug/l  | 95       |
| 95) Naphthalene            | 14.50 | 128  | 211741   | 16.289 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.65 | 180  | 127837   | 18.472 | ug/l  | 96       |

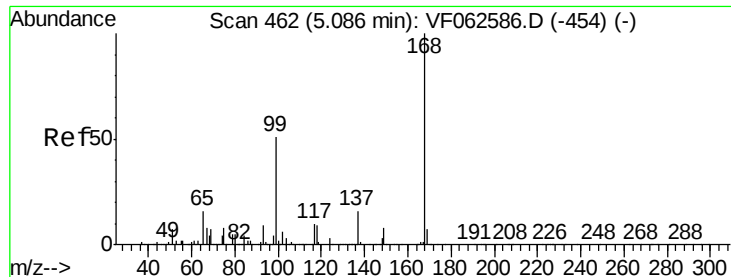
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051419\  
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 Sample : VSTDIC020  
 Misc : 5.00µL/MSVOA F/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.09 min Scan# 462

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

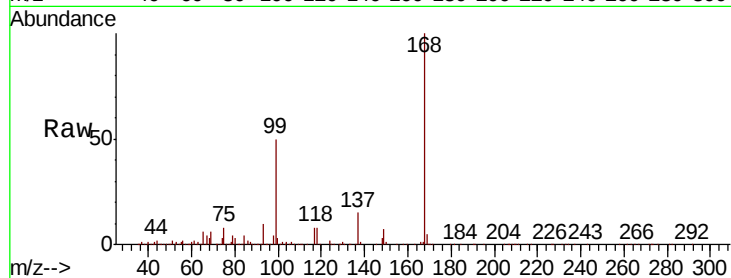
VSTDIC020

Tot Ion:168 Resp: 607455

Ion Ratio Lower Upper

168 100

99 49.8 41.0 61.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.09

200000

150000

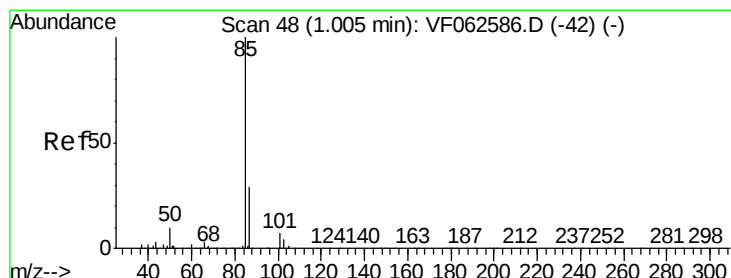
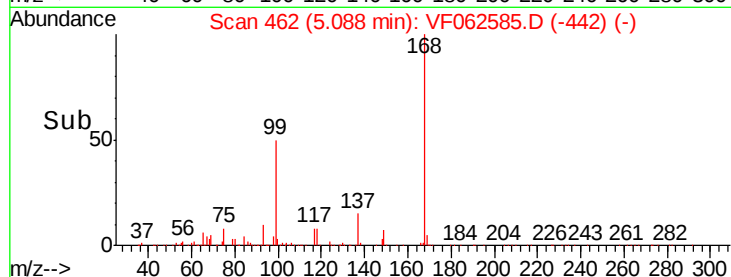
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50000

0

Time-->

5.00 5.20



#2

Dichlorodifluoromethane

Concen: 17.516 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062585.D

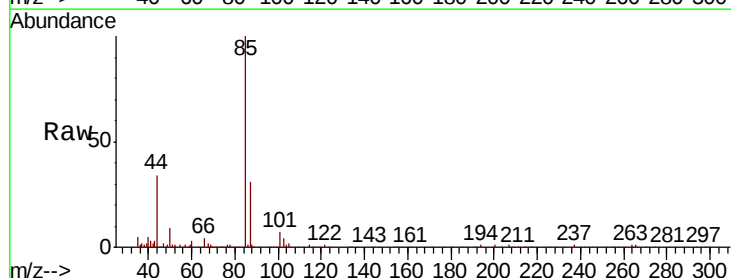
Acq: 14 May 2019 16:23

Tgt Ion: 85 Resp: 146441

Ion Ratio Lower Upper

85 100

87 31.1 14.6 43.8



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

50000

40000

30000

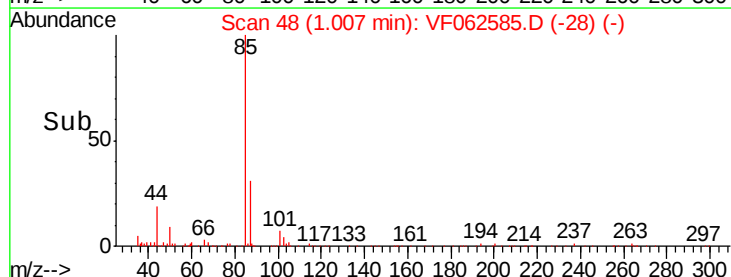
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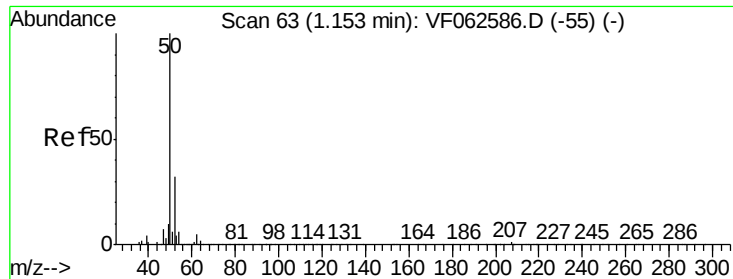
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0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 21.887 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

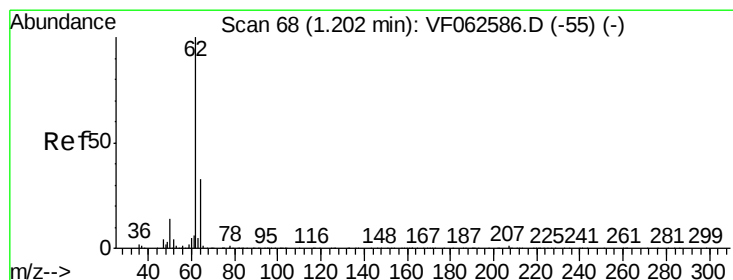
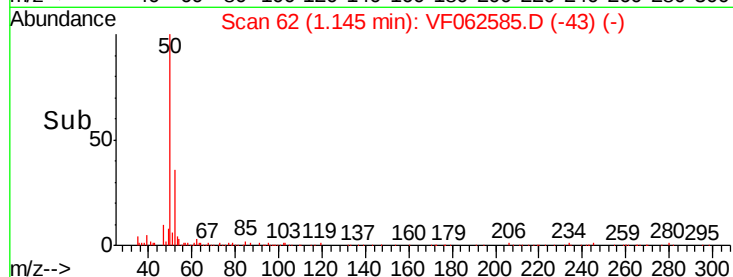
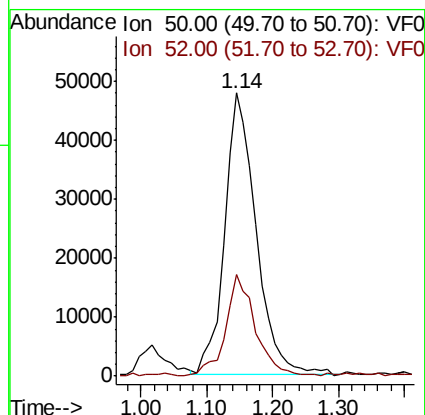
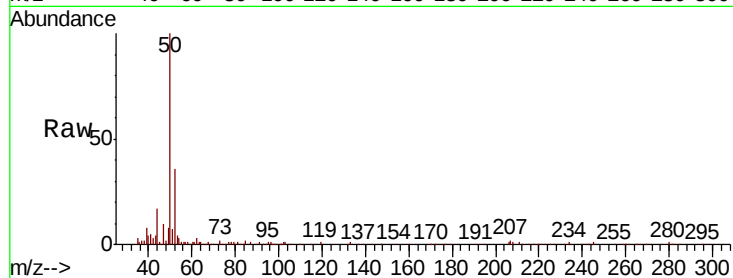
VSTDIC020

Tot Ion: 50 Resp: 159388

Ion Ratio Lower Upper

50 100

52 35.8 25.3 37.9



#4

Vinyl Chloride

Concen: 22.084 ug/l

RT: 1.19 min Scan# 67

Delta R.T. -0.01 min

Lab File: VF062585.D

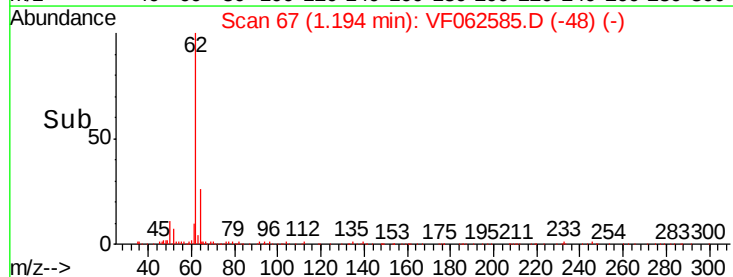
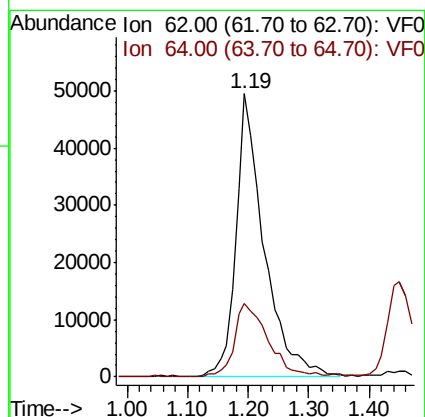
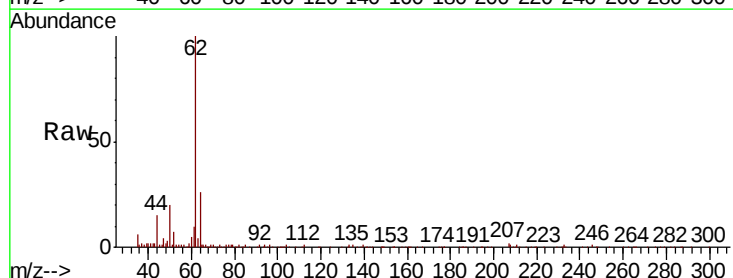
Acq: 14 May 2019 16:23

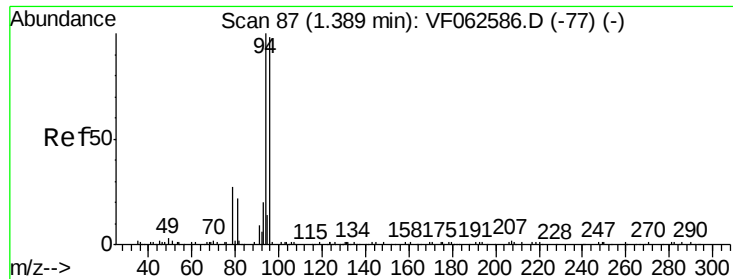
Tgt Ion: 62 Resp: 159359

Ion Ratio Lower Upper

62 100

64 26.2 26.5 39.7#





#5

Bromomethane

Concen: 11.603 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

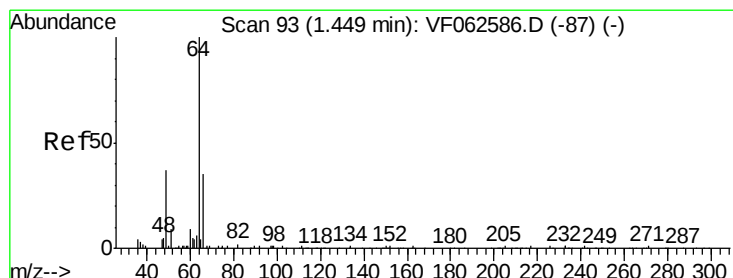
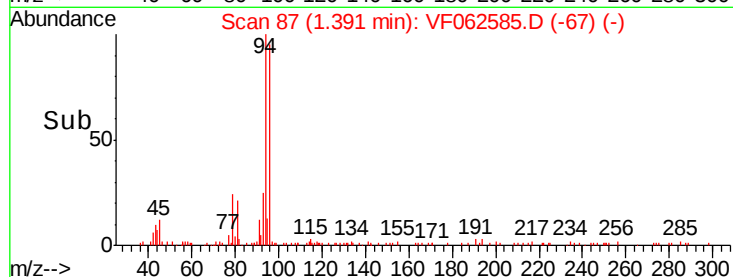
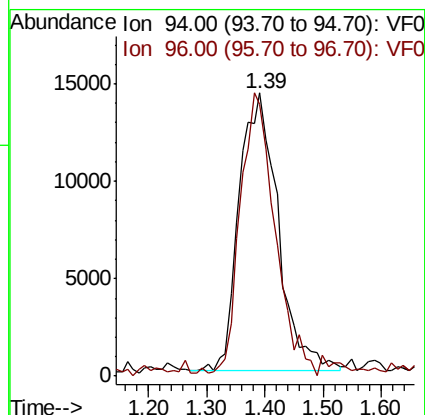
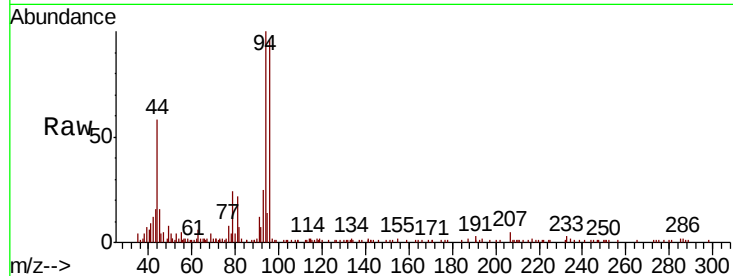
VSTDIC020

Tot Ion: 94 Resp: 65740

Ion Ratio Lower Upper

94 100

96 95.9 79.3 118.9



#6

Chloroethane

Concen: 12.529 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.00 min

Lab File: VF062585.D

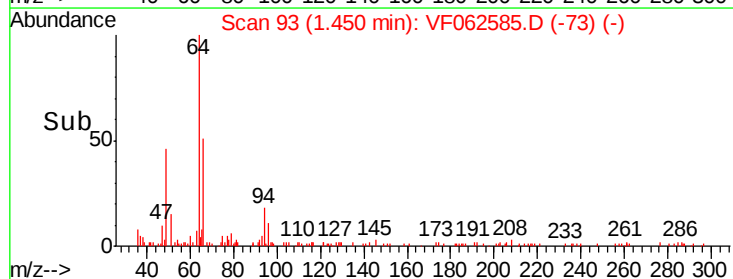
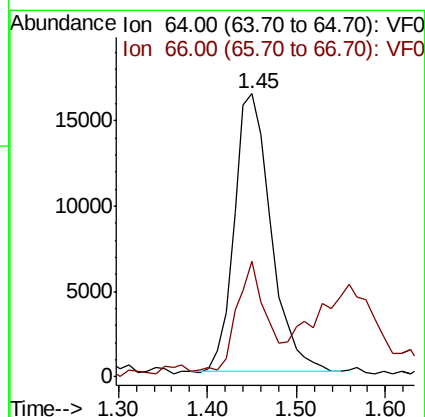
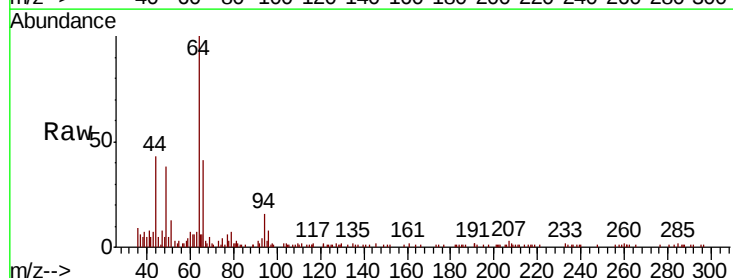
Acq: 14 May 2019 16:23

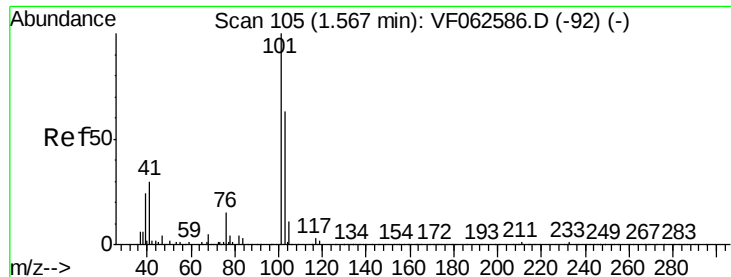
Tgt Ion: 64 Resp: 46682

Ion Ratio Lower Upper

64 100

66 41.1 28.9 43.3



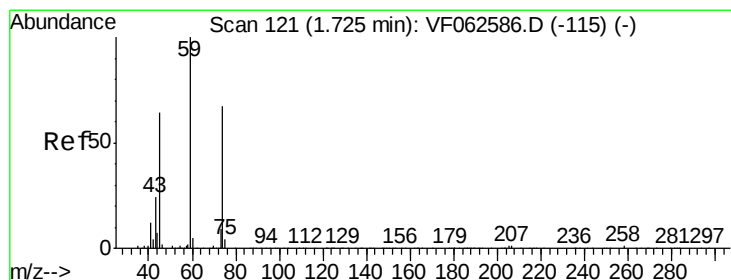
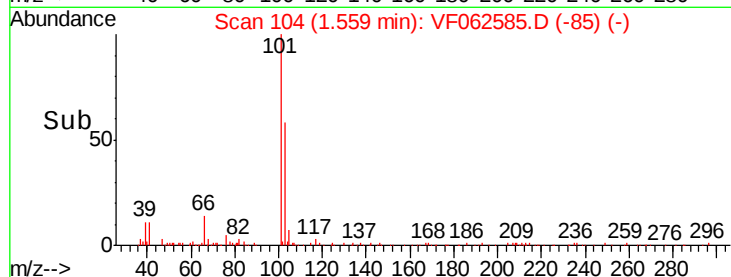
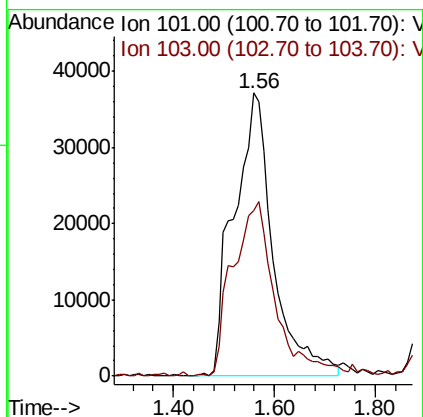
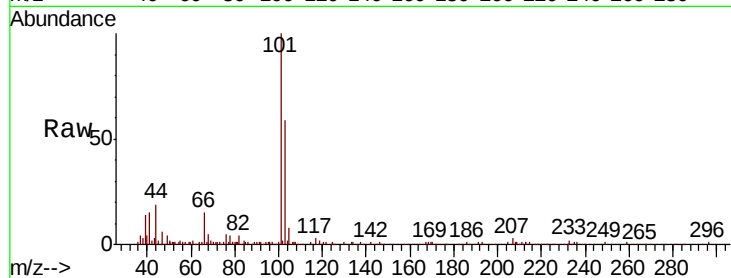


#7

Trichlorofluoromethane  
Concen: 19.286 ug/l  
RT: 1.56 min Scan# 104  
Delta R.T. -0.01 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

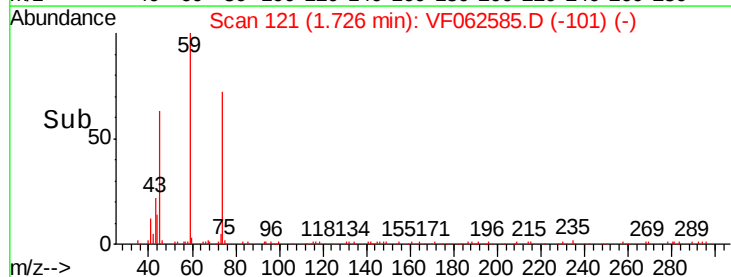
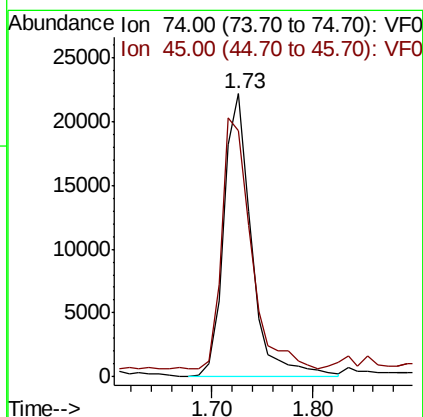
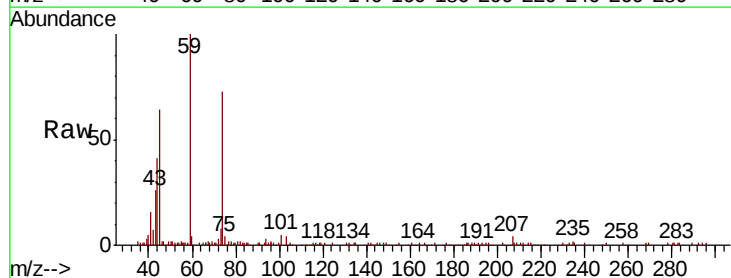
Tot Ion:101 Resp: 202126  
Ion Ratio Lower Upper  
101 100  
103 58.7 50.8 76.2

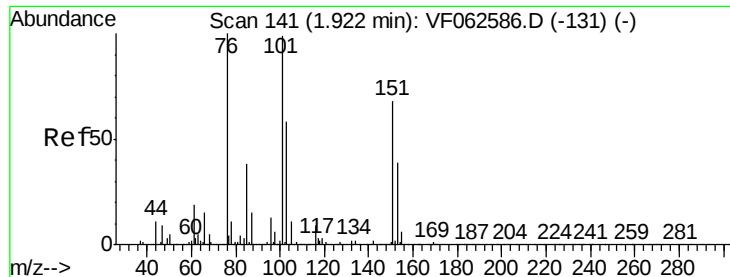


#8

Diethyl Ether  
Concen: 19.059 ug/l  
RT: 1.73 min Scan# 121  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Tgt Ion: 74 Resp: 42302  
Ion Ratio Lower Upper  
74 100  
45 86.8 48.6 145.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.486 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

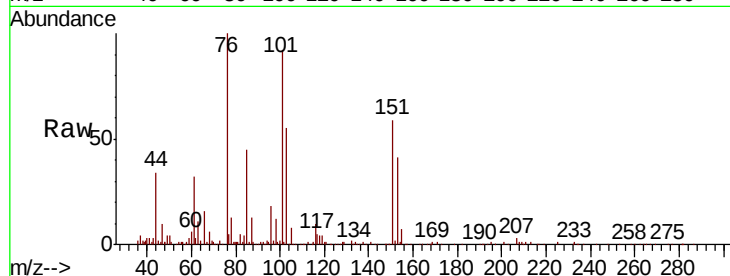
Tot Ion:101 Resp: 140136

Ion Ratio Lower Upper

101 100

85 48.5 30.2 45.4#

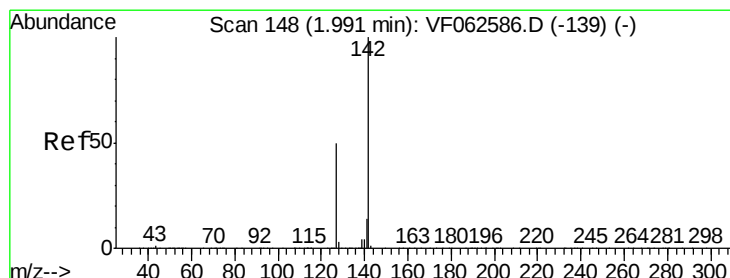
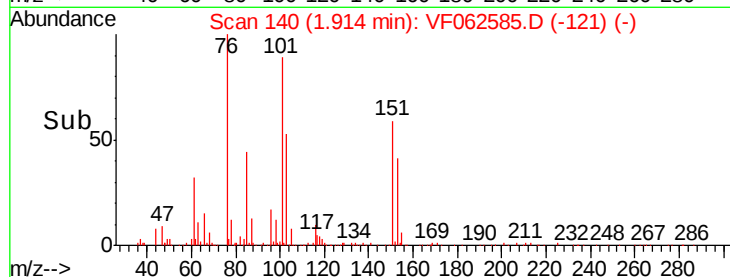
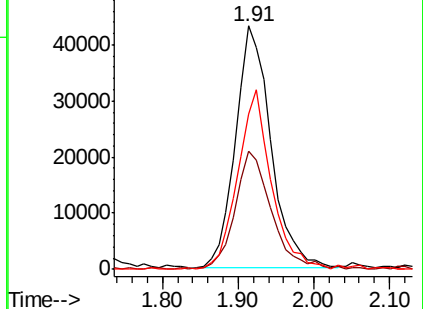
151 63.9 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 20.649 ug/l

RT: 1.98 min Scan# 147

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

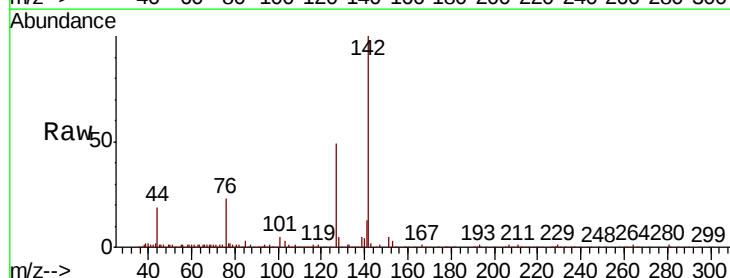
Tgt Ion:142 Resp: 239738

Ion Ratio Lower Upper

142 100

127 49.0 40.2 60.4

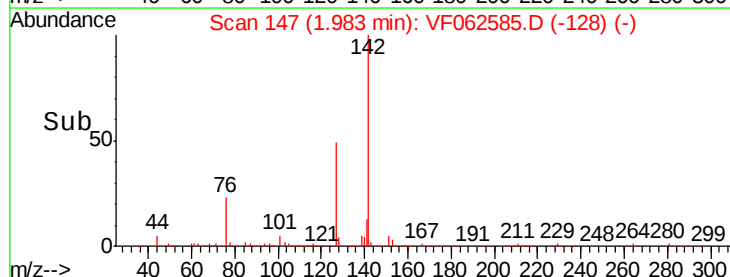
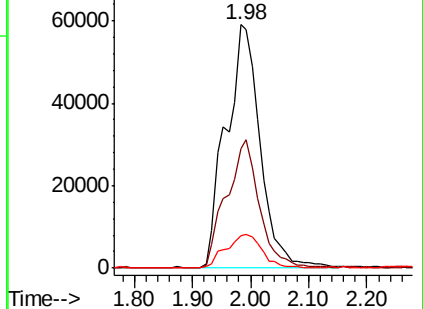
141 13.2 11.6 17.4

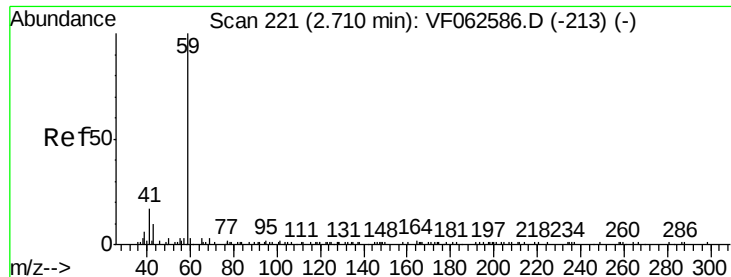


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

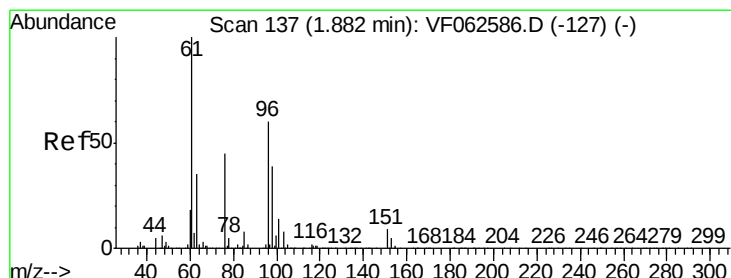
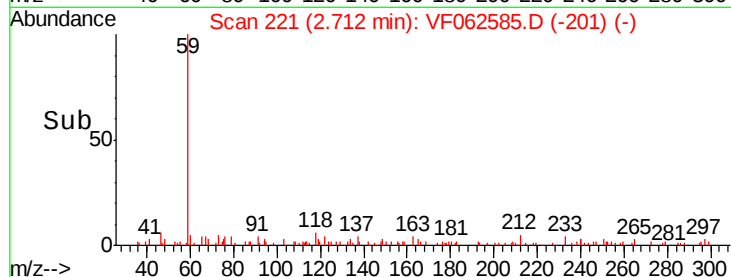
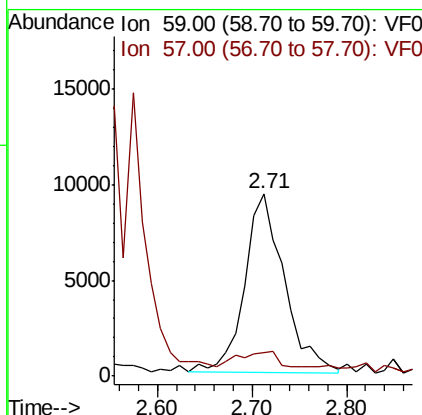
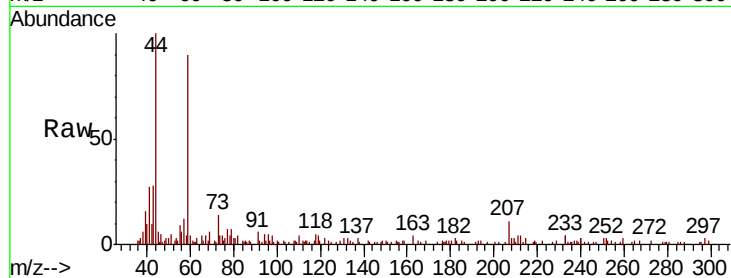




#11  
Tert butyl alcohol  
Concen: 88.569 ug/l  
RT: 2.71 min Scan# 221  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

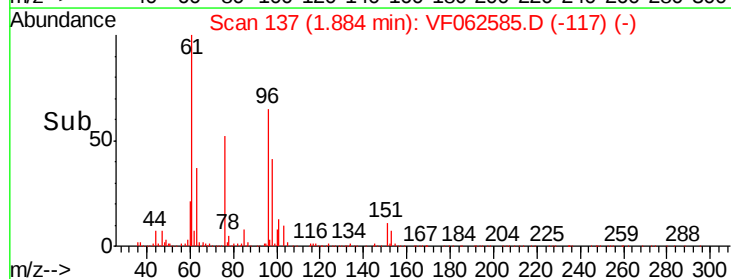
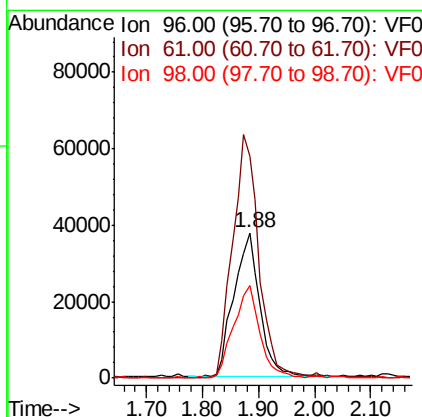
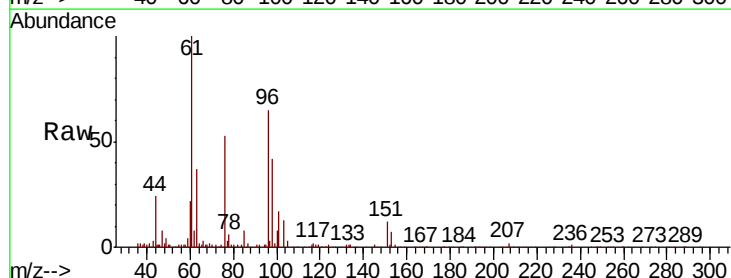
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

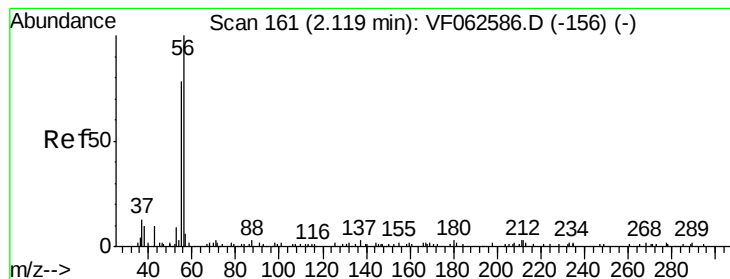
Tot Ion: 59 Resp: 27337  
Ion Ratio Lower Upper  
59 100  
57 13.0 8.0 12.0#



#12  
1,1-Dichloroethene  
Concen: 19.683 ug/l  
RT: 1.88 min Scan# 137  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Tgt Ion: 96 Resp: 121913  
Ion Ratio Lower Upper  
96 100  
61 152.7 132.0 198.0  
98 63.5 51.3 76.9





#13

Acrolein

Concen: 2.906 ug/l

RT: 2.01 min Scan# 150

Delta R.T. -0.11 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

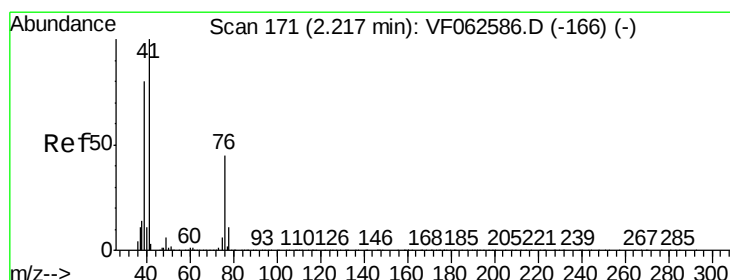
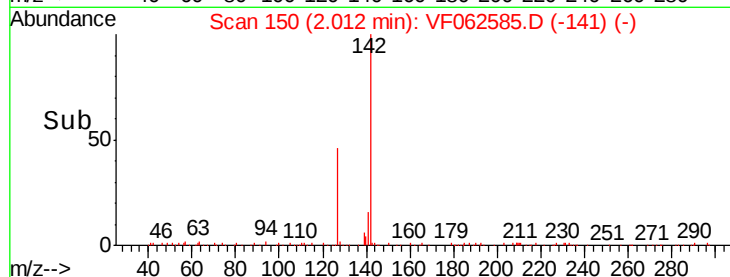
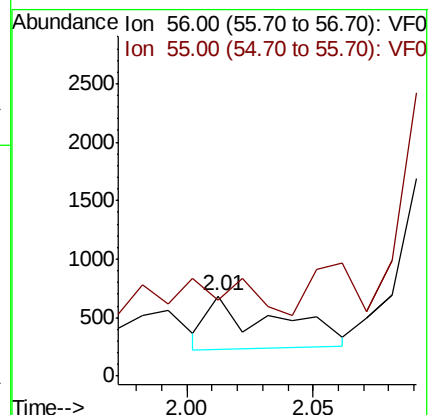
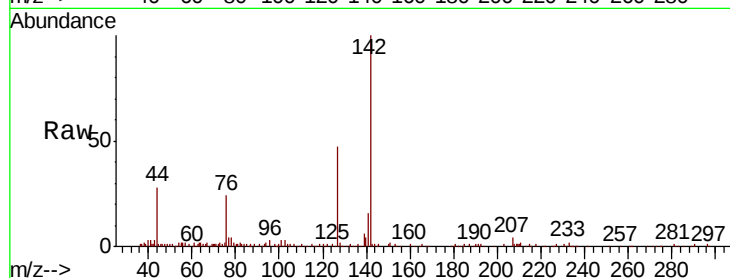
VSTDIC020

Tot Ion: 56 Resp: 866

Ion Ratio Lower Upper

56 100

55 94.0 64.6 96.8



#14

Allyl chloride

Concen: 17.402 ug/l

RT: 2.21 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

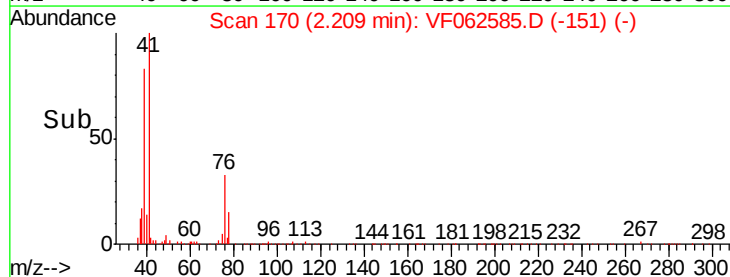
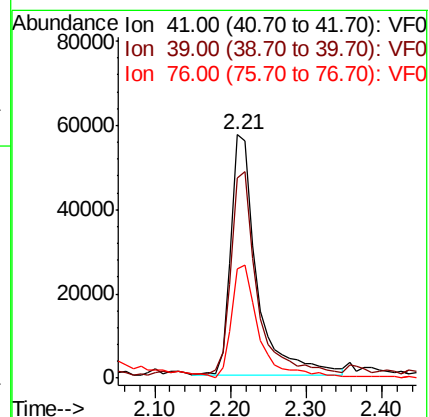
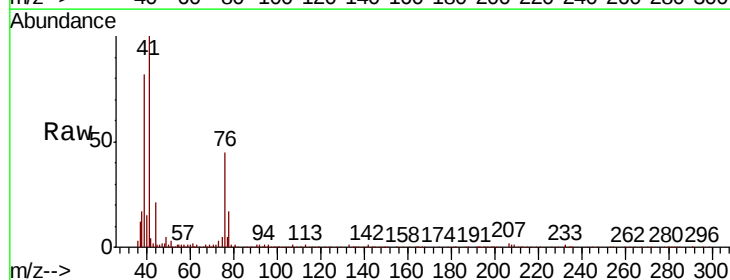
Tgt Ion: 41 Resp: 136208

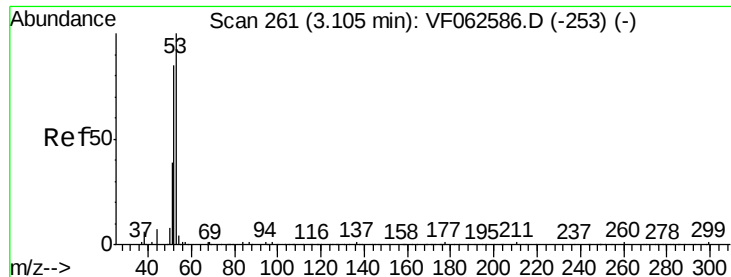
Ion Ratio Lower Upper

41 100

39 82.4 64.6 96.8

76 44.7 36.1 54.1





#15

Acrylonitrile

Concen: 95.375 ug/l

RT: 3.11 min Scan# 261

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

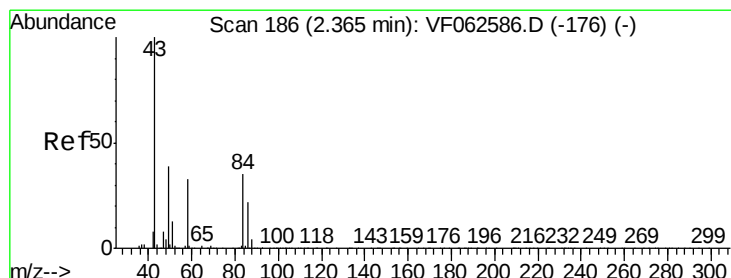
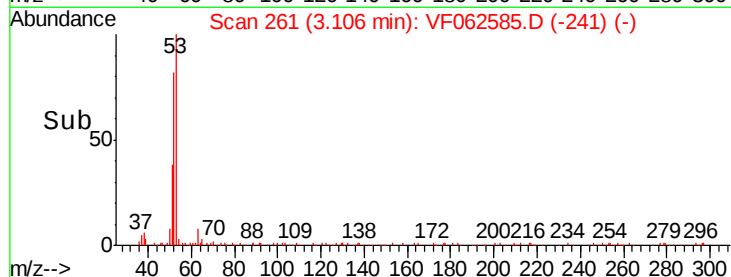
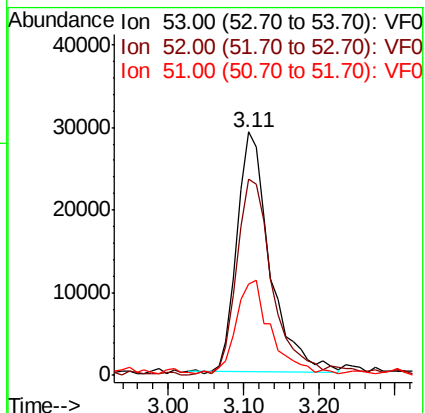
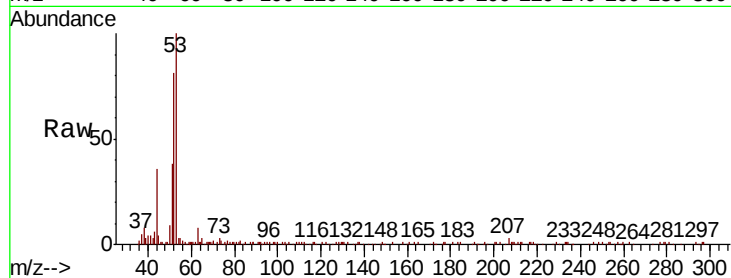
Tot Ion: 53 Resp: 88046

Ion Ratio Lower Upper

53 100

52 80.8 68.3 102.5

51 37.7 31.5 47.3



#16

Acetone

Concen: 72.255 ug/l

RT: 2.37 min Scan# 186

Delta R.T. 0.00 min

Lab File: VF062585.D

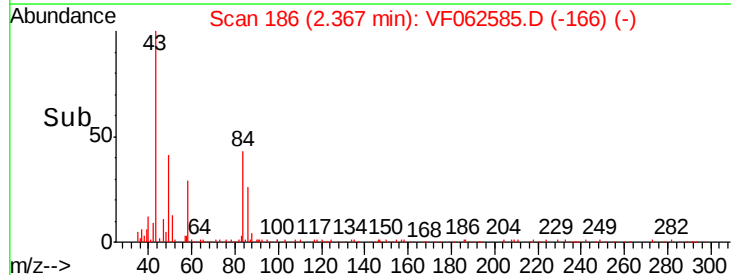
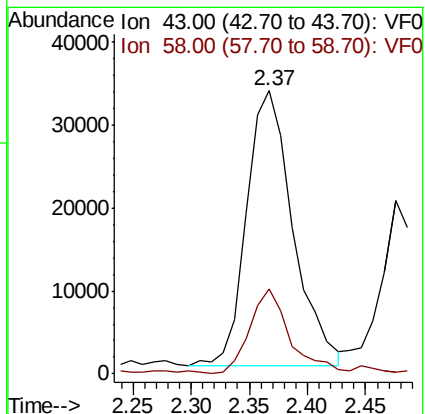
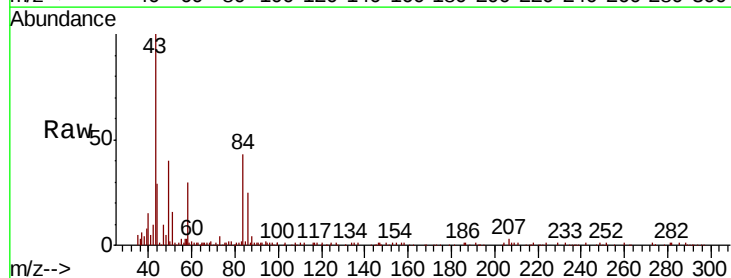
Acq: 14 May 2019 16:23

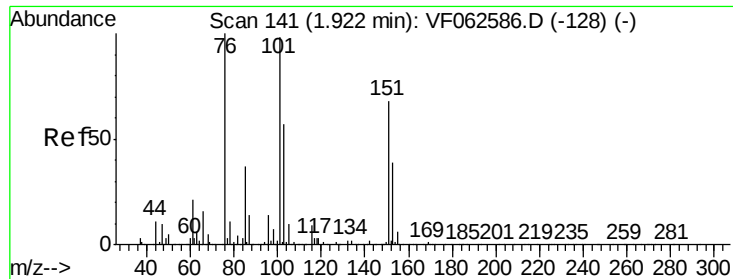
Tgt Ion: 43 Resp: 91804

Ion Ratio Lower Upper

43 100

58 29.8 26.7 40.1

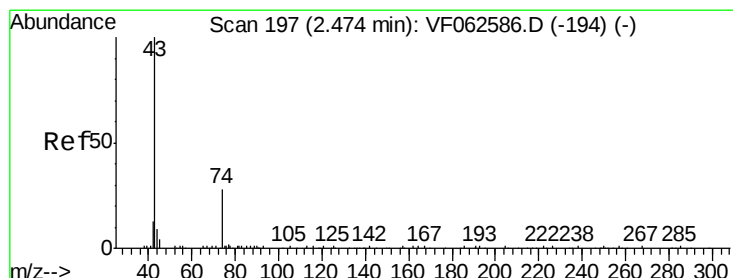
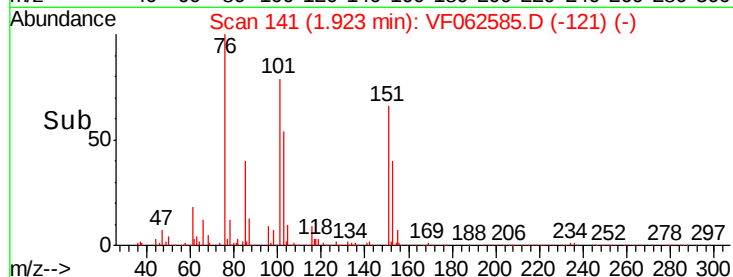
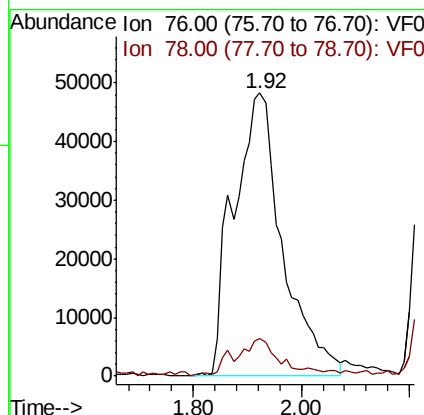
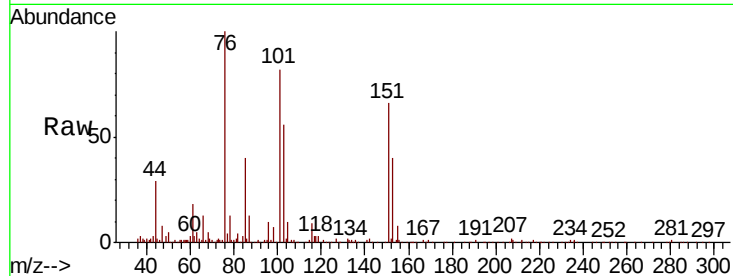




#17  
Carbon Disulfide  
Concen: 15.991 ug/l  
RT: 1.92 min Scan# 141  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

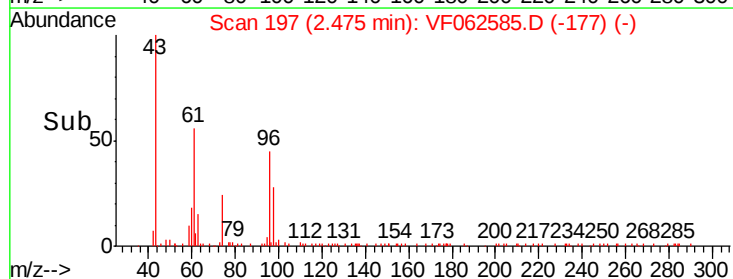
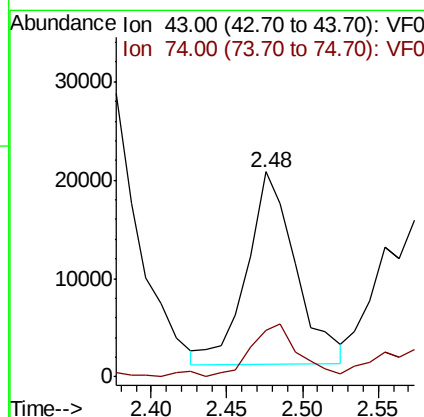
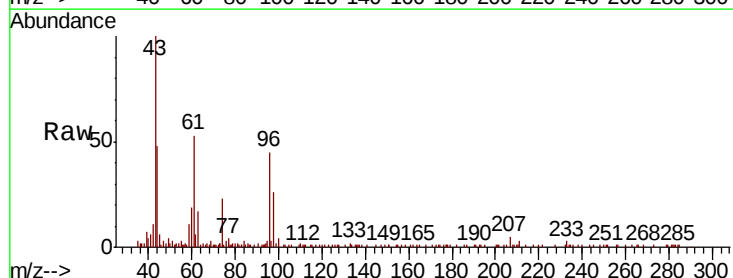
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

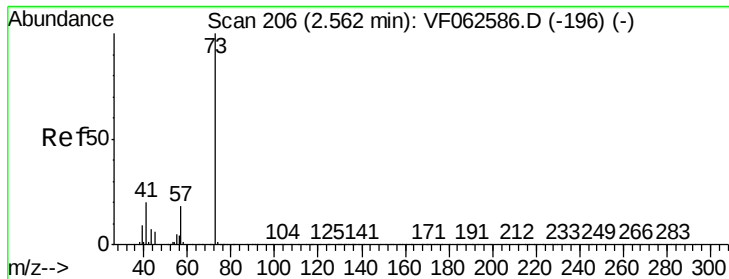
Tot Ion: 76 Resp: 303562  
Ion Ratio Lower Upper  
76 100  
78 13.4 9.0 13.4



#18  
Methyl Acetate  
Concen: 14.353 ug/l  
RT: 2.48 min Scan# 197  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Tgt Ion: 43 Resp: 44185  
Ion Ratio Lower Upper  
43 100  
74 22.9 21.4 32.0



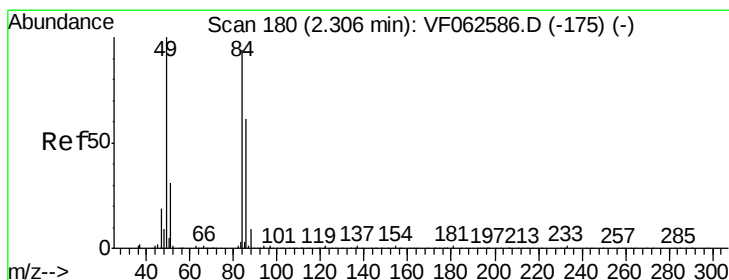
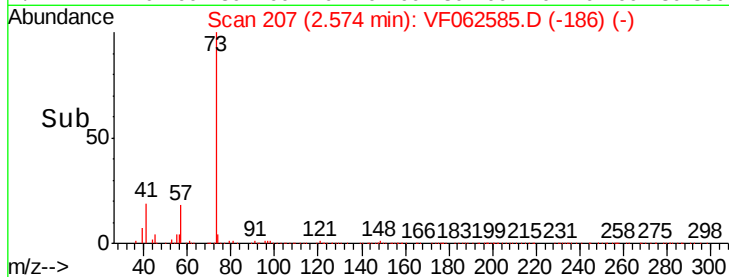
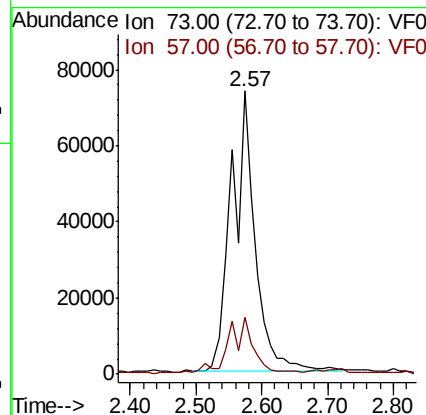
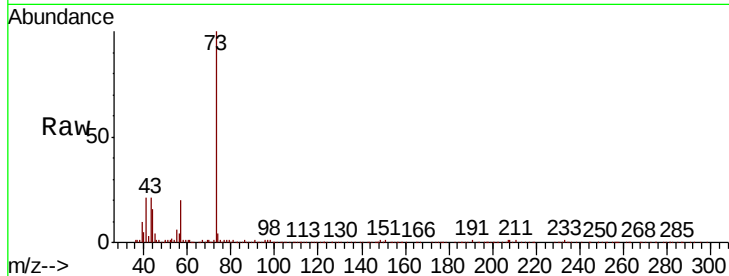


#19

Methyl tert-butyl Ether  
 Concen: 16.651 ug/l  
 RT: 2.57 min Scan# 207  
 Delta R.T. 0.01 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

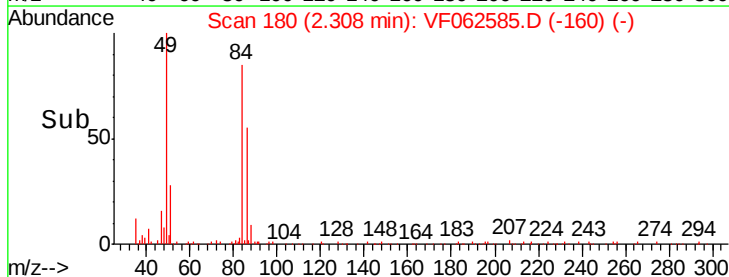
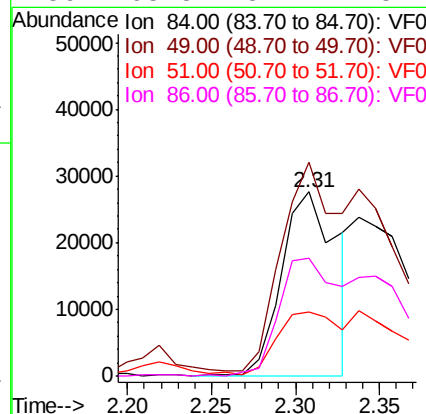
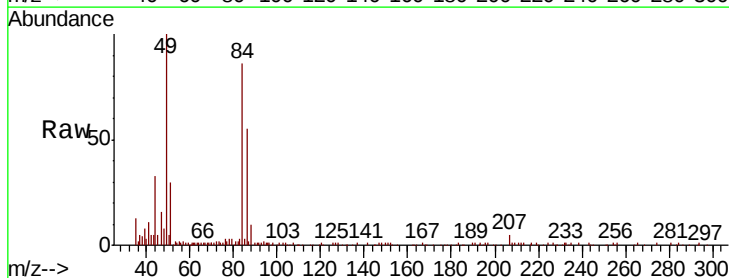
Tot Ion: 73 Resp: 186528  
 Ion Ratio Lower Upper  
 73 100  
 57 19.9 14.6 22.0

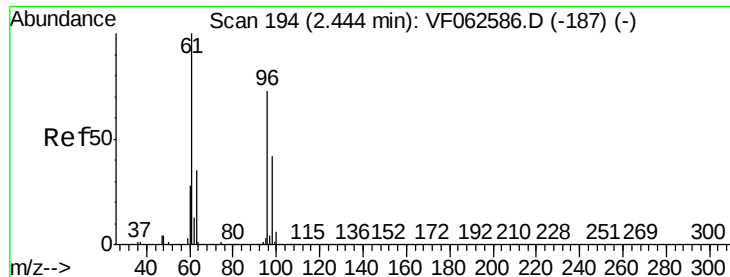


#20

Methylene Chloride  
 Concen: 8.519 ug/l  
 RT: 2.31 min Scan# 180  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

Tgt Ion: 84 Resp: 63354  
 Ion Ratio Lower Upper  
 84 100  
 49 116.3 86.9 130.3  
 51 34.5 27.0 40.6  
 86 63.8 52.2 78.2





#21

trans-1,2-Dichloroethene

Concen: 22.470 ug/l

RT: 2.45 min Scan# 194

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

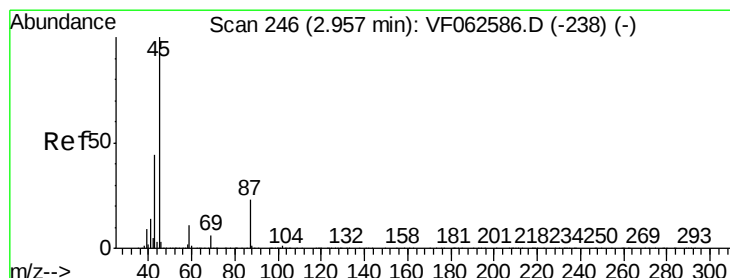
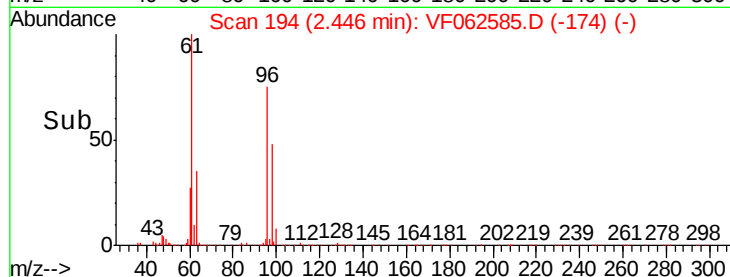
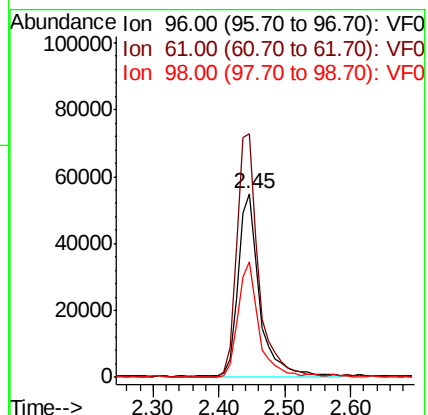
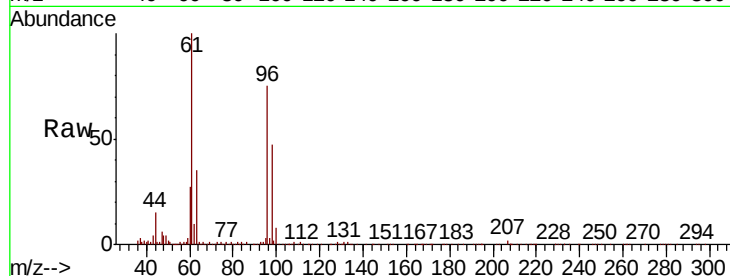
Tot Ion: 96 Resp: 125212

Ion Ratio Lower Upper

96 100

61 132.6 109.2 163.8

98 62.9 46.3 69.5



#22

Diisopropyl ether

Concen: 14.303 ug/l

RT: 2.96 min Scan# 246

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Tgt Ion: 45 Resp: 258652

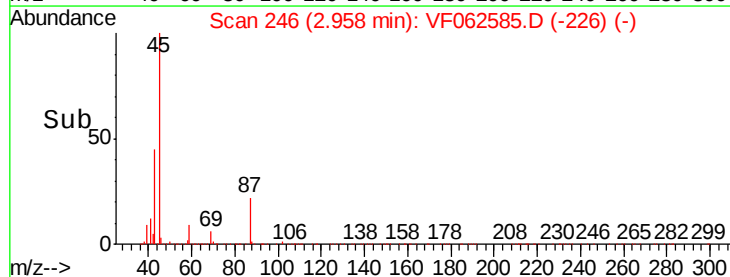
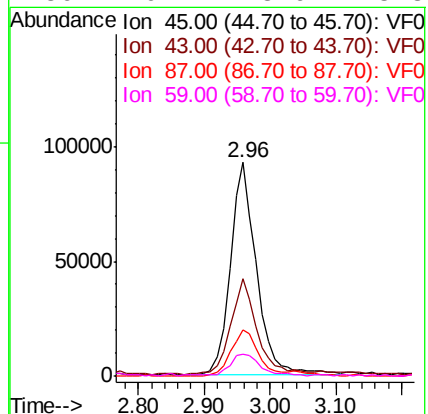
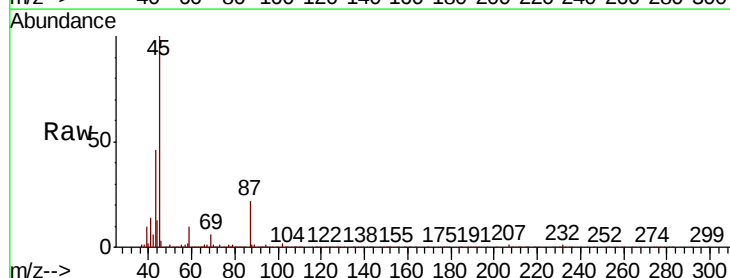
Ion Ratio Lower Upper

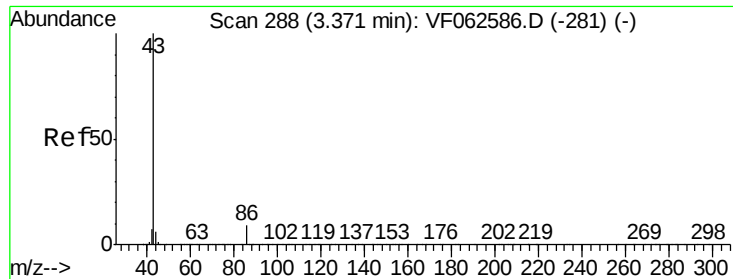
45 100

43 45.7 35.4 53.0

87 21.6 18.4 27.6

59 10.4 8.9 13.3

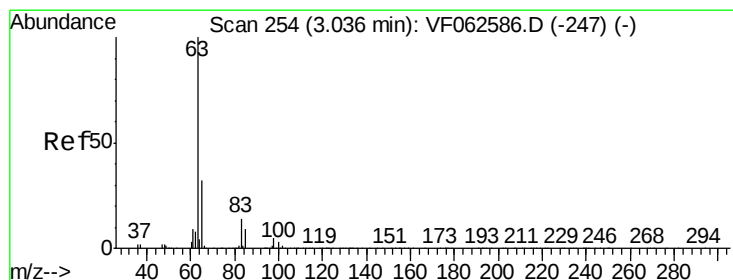
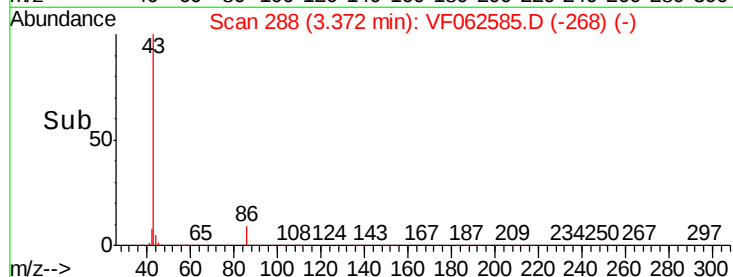
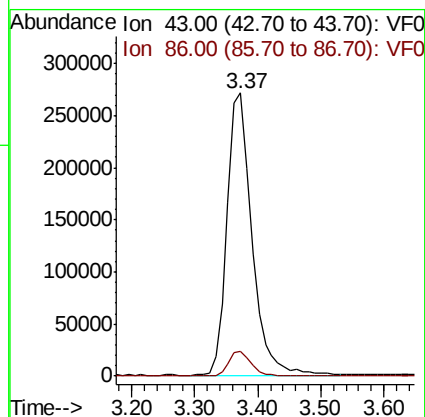
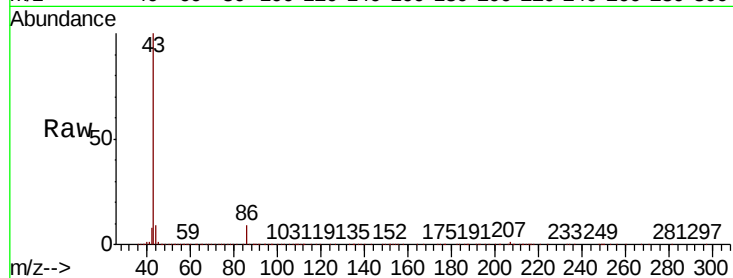




#23  
 Vinyl Acetate  
 Concen: 85.767 ug/l  
 RT: 3.37 min Scan# 288  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

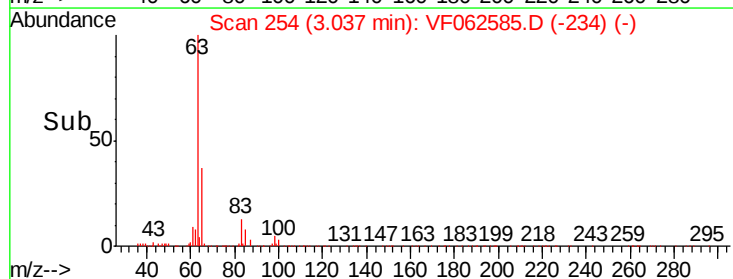
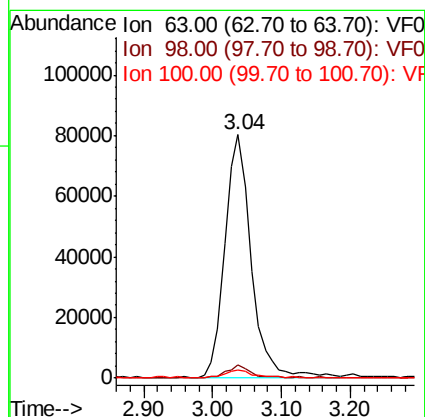
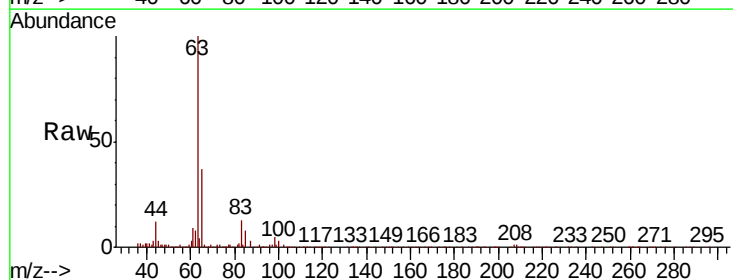
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

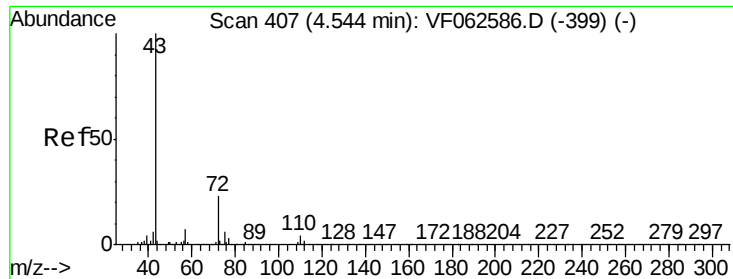
Tot Ion: 43 Resp: 745635  
 Ion Ratio Lower Upper  
 43 100  
 86 8.9 7.1 10.7



#24  
 1,1-Dichloroethane  
 Concen: 19.611 ug/l  
 RT: 3.04 min Scan# 254  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

Tgt Ion: 63 Resp: 214340  
 Ion Ratio Lower Upper  
 63 100  
 98 5.4 2.6 7.8  
 100 3.5 1.7 5.1

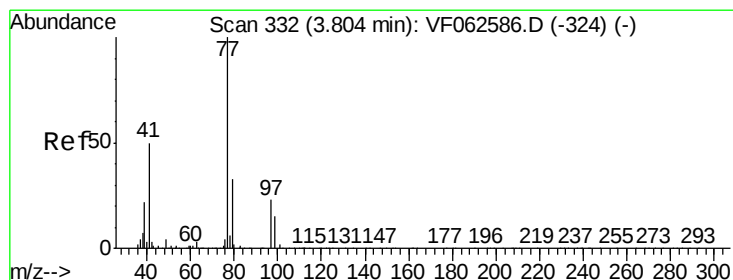
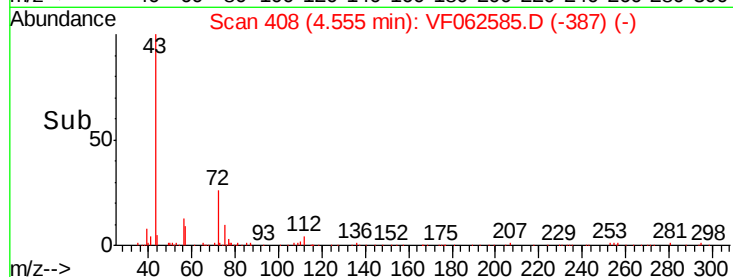
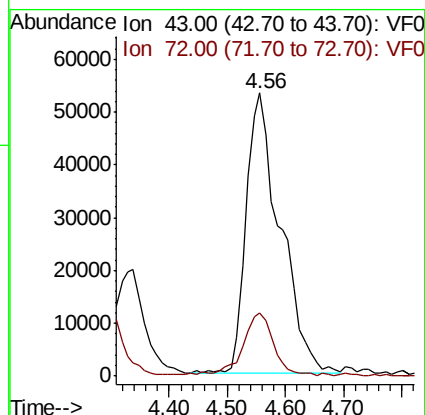
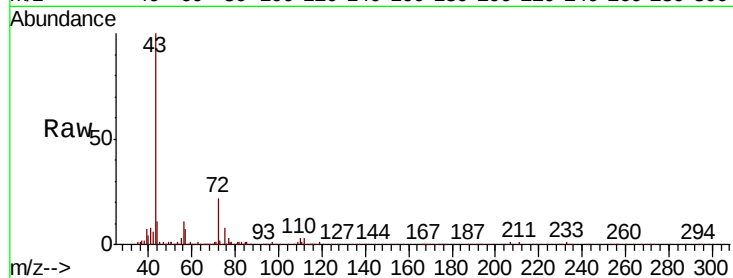




#25  
2-Butanone  
Concen: 90.504 ug/l  
RT: 4.56 min Scan# 408  
Delta R.T. 0.01 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

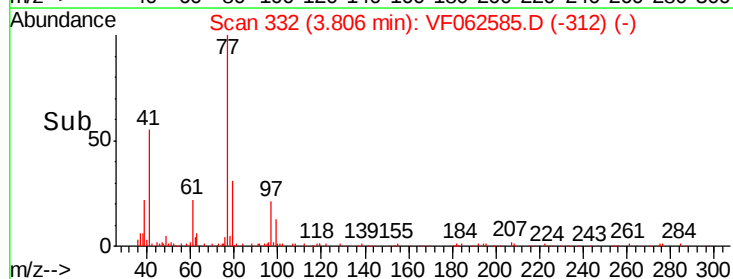
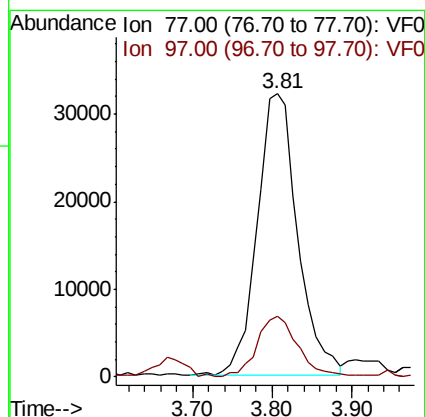
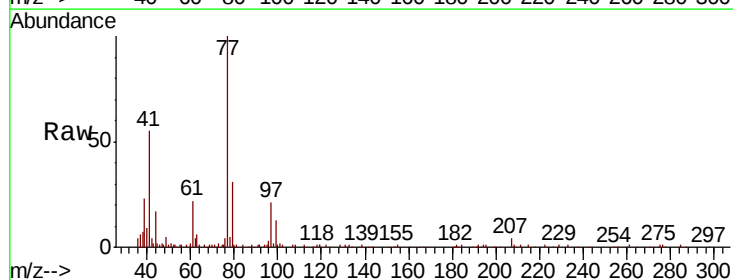
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

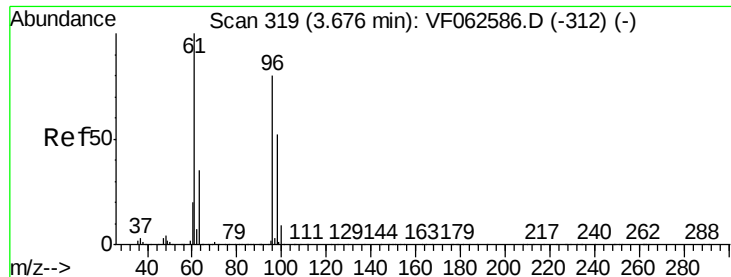
Tot Ion: 43 Resp: 215747  
Ion Ratio Lower Upper  
43 100  
72 22.4 18.5 27.7



#26  
2,2-Dichloropropane  
Concen: 19.602 ug/l  
RT: 3.81 min Scan# 332  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Tgt Ion: 77 Resp: 113764  
Ion Ratio Lower Upper  
77 100  
97 21.5 12.0 36.0



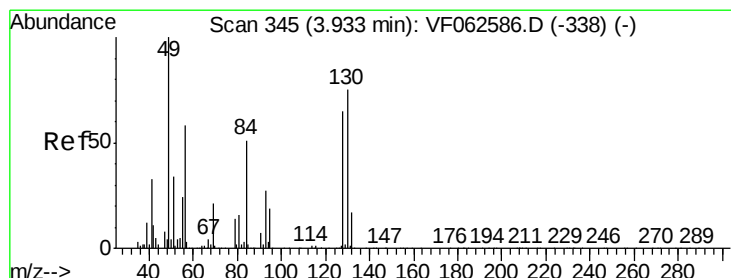
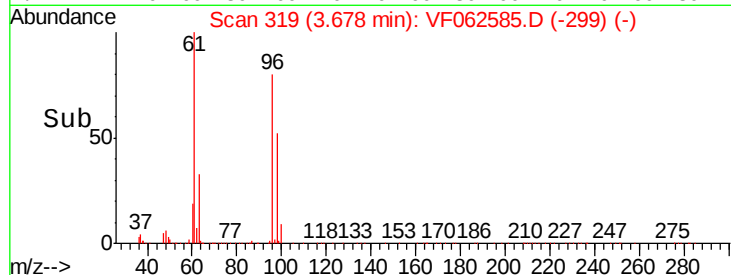
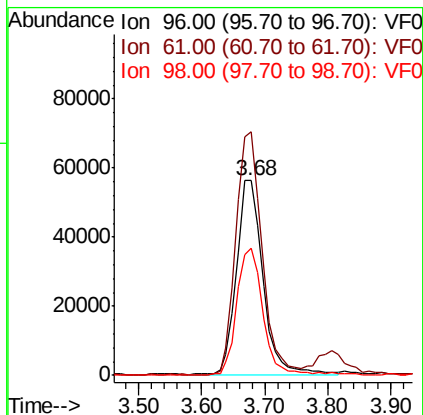
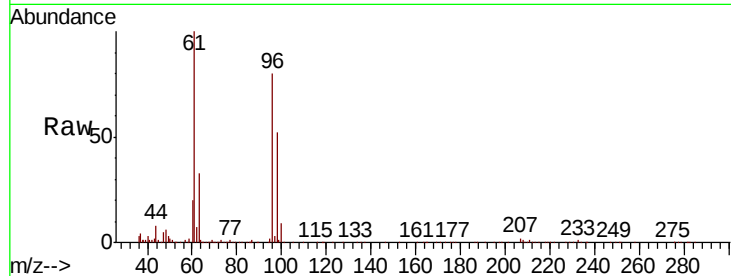


#27

cis-1,2-Dichloroethene  
 Concen: 22.193 ug/l  
 RT: 3.68 min Scan# 319  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

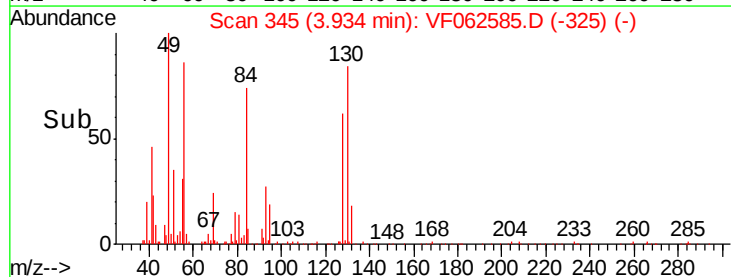
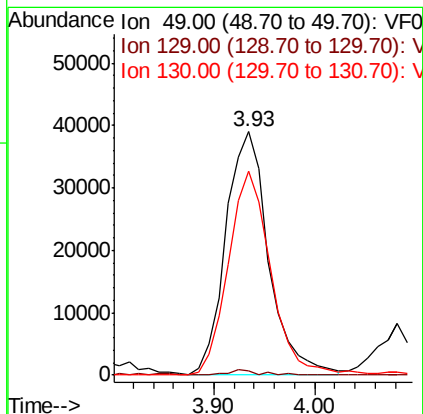
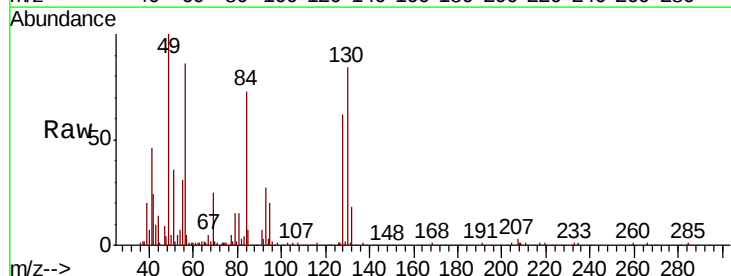
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 125.0 | 0.0   | 251.4 |
| 98      | 65.0  | 0.0   | 129.8 |

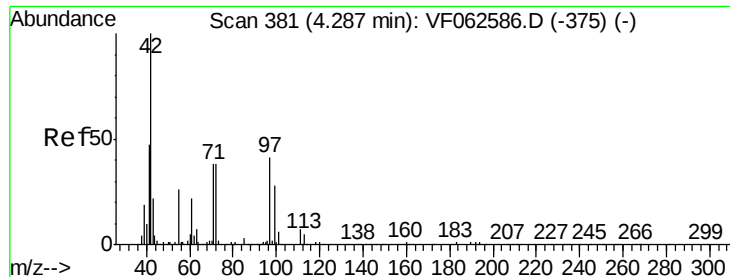


#28

Bromochloromethane  
 Concen: 23.196 ug/l  
 RT: 3.93 min Scan# 345  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 1.8   | 0.0   | 4.0   |
| 130     | 83.5  | 59.7  | 89.5  |





#29

Tetrahydrofuran

Concen: 86.578 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

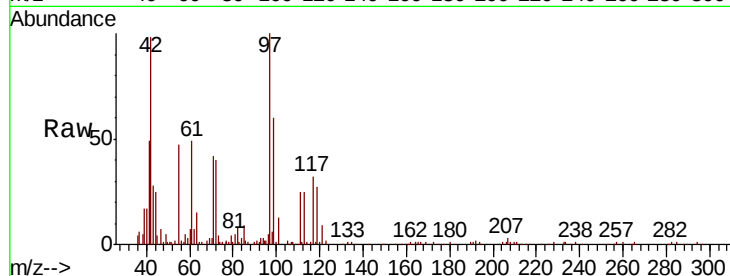
Tot Ion: 42 Resp: 89087

Ion Ratio Lower Upper

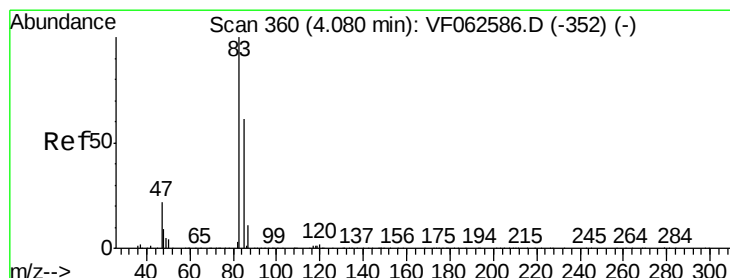
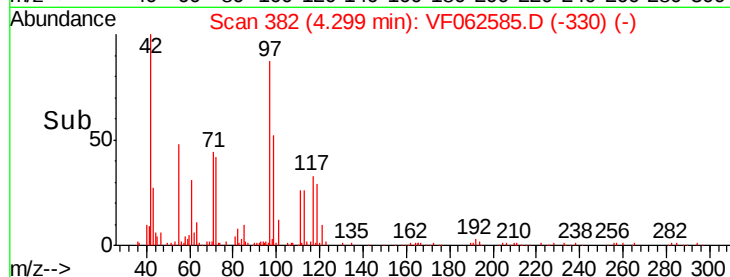
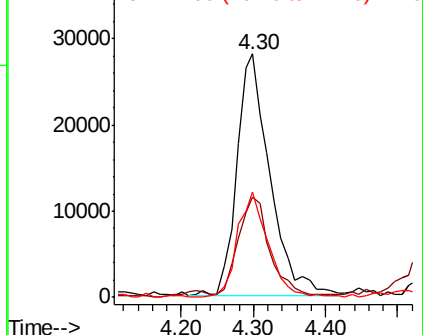
42 100

72 40.3 34.0 51.0

71 41.4 32.8 49.2



Abundance Ion 42.00 (41.70 to 42.70): VF0  
Ion 72.00 (71.70 to 72.70): VF0  
Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 18.904 ug/l

RT: 4.08 min Scan# 360

Delta R.T. 0.00 min

Lab File: VF062585.D

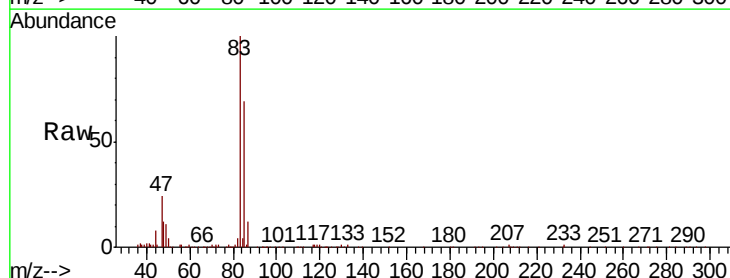
Acq: 14 May 2019 16:23

Tgt Ion: 83 Resp: 248977

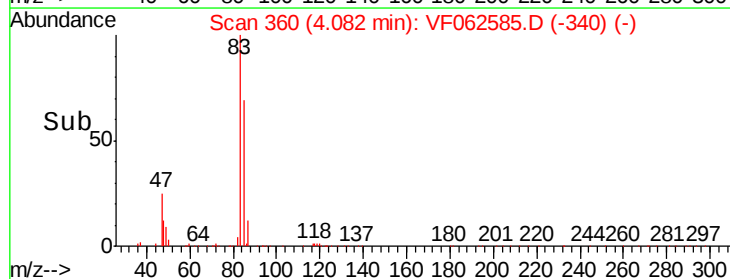
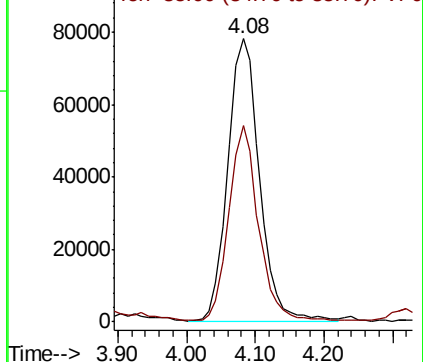
Ion Ratio Lower Upper

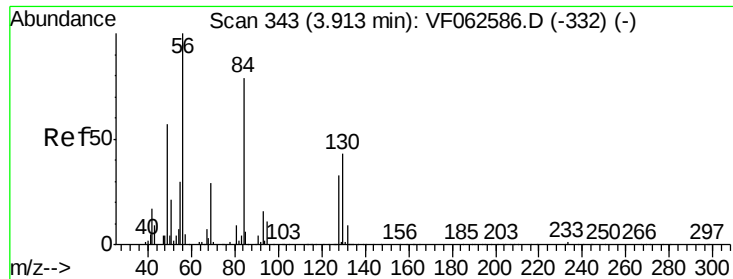
83 100

85 69.2 48.7 73.1



Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 85.00 (84.70 to 85.70): VF0

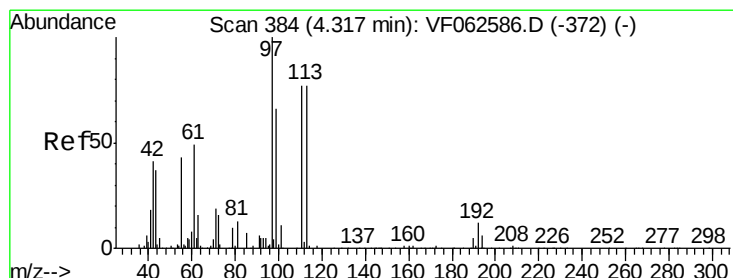
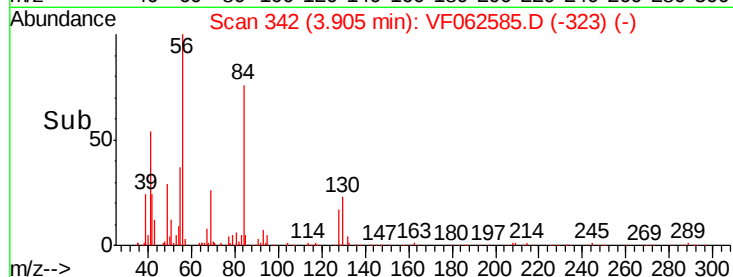
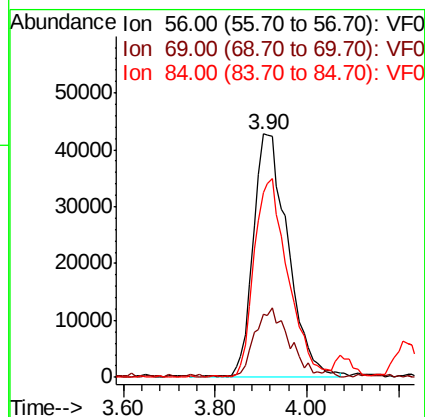
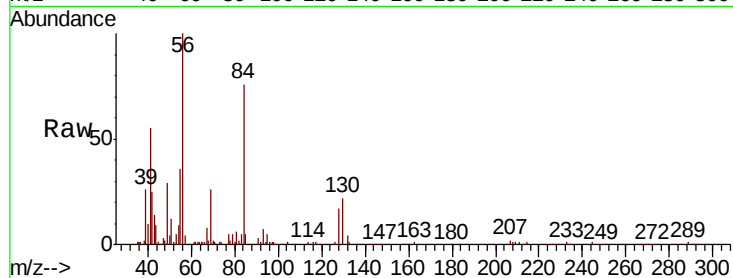




#31  
Cyclohexane  
Concen: 20.997 ug/l  
RT: 3.90 min Scan# 342  
Delta R.T. -0.01 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

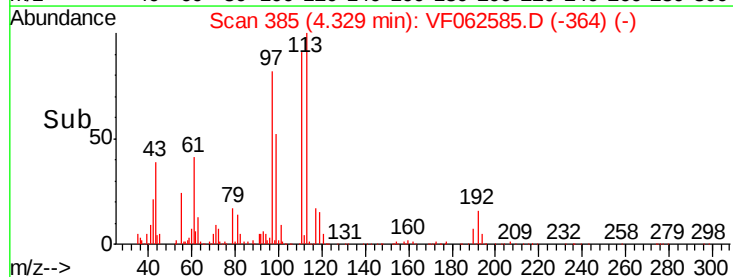
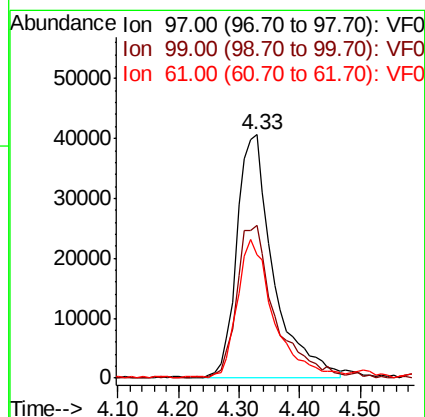
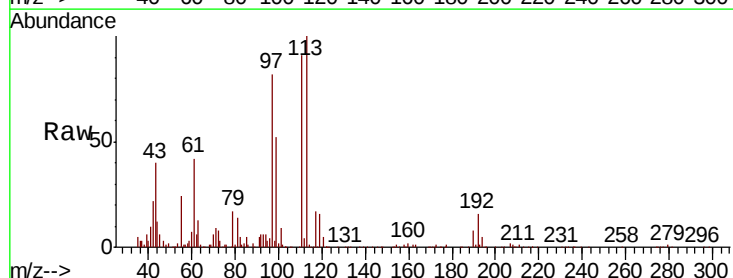
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

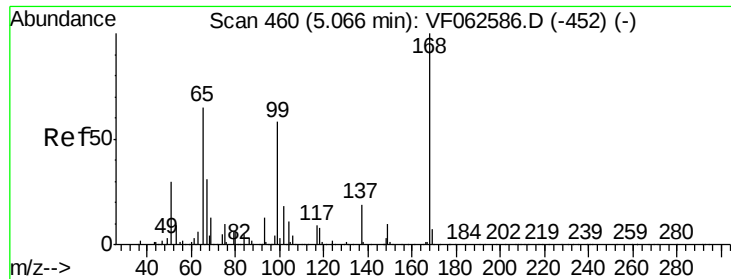
Tot Ion: 56 Resp: 226435  
Ion Ratio Lower Upper  
56 100  
69 26.2 22.9 34.3  
84 75.7 63.4 95.2



#32  
1,1,1-Trichloroethane  
Concen: 19.794 ug/l  
RT: 4.33 min Scan# 385  
Delta R.T. 0.01 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Tgt Ion: 97 Resp: 171848  
Ion Ratio Lower Upper  
97 100  
99 62.6 53.4 80.0  
61 50.7 38.9 58.3





#33

1,2-Dichloroethane-d4

Concen: 13.528 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

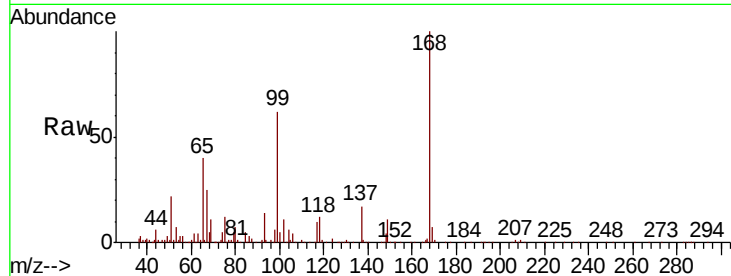
VSTDIC020

Tot Ion: 65 Resp: 89017

Ion Ratio Lower Upper

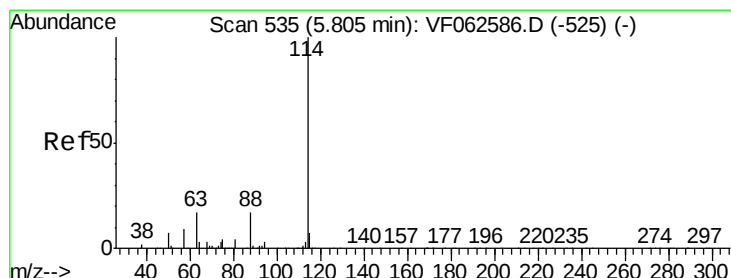
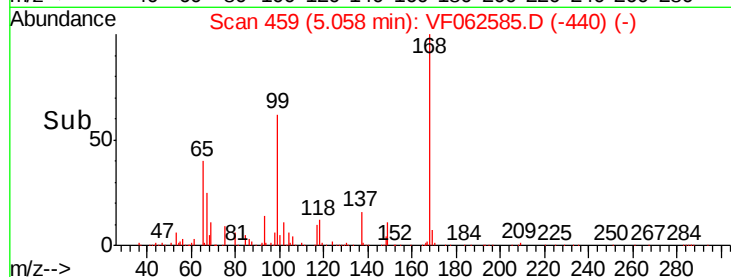
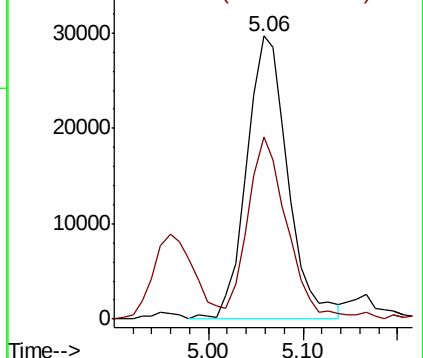
65 100

67 64.2 0.0 116.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

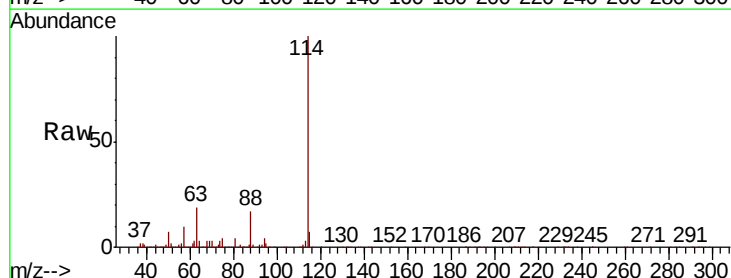
Tgt Ion: 114 Resp: 968523

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.6

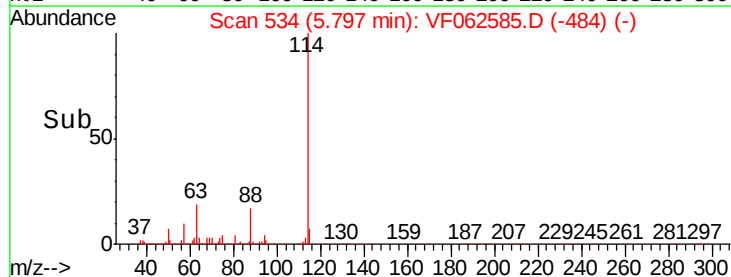
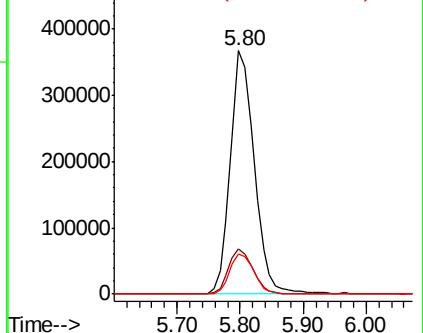
88 16.6 0.0 33.6

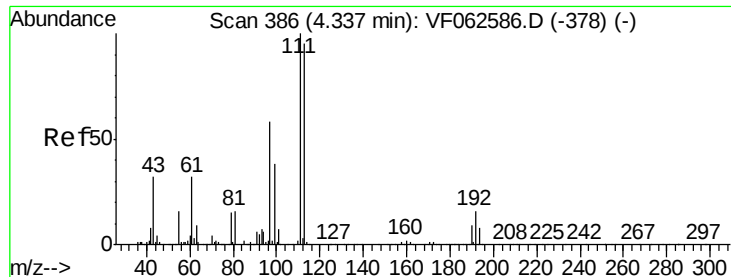


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

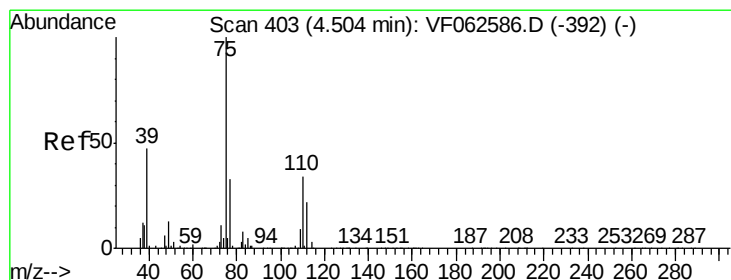
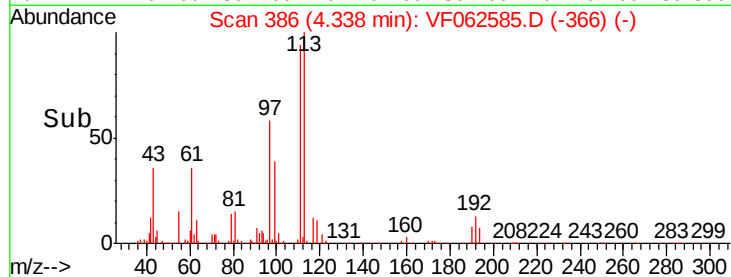
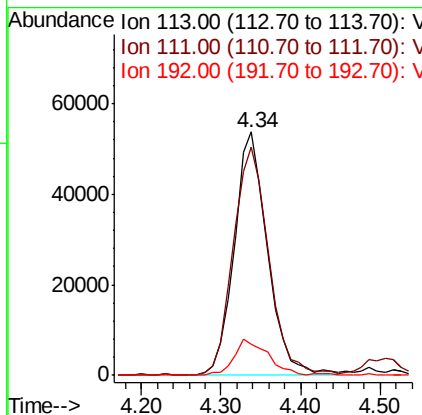
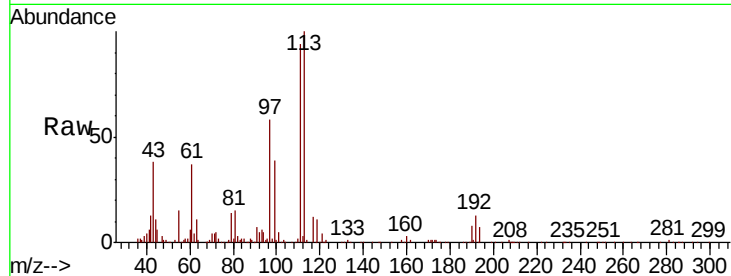




#35  
 Dibromofluoromethane  
 Concen: 21.615 ug/l  
 RT: 4.34 min Scan# 386  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

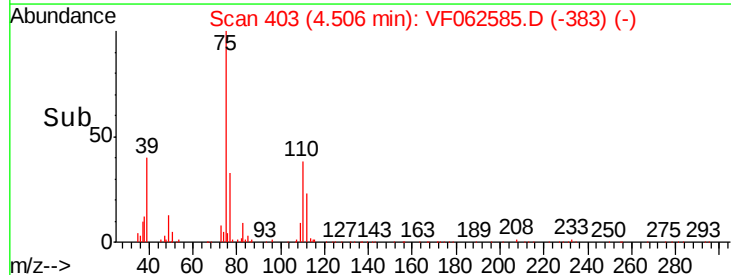
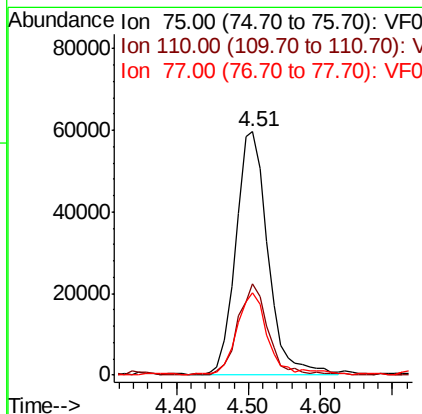
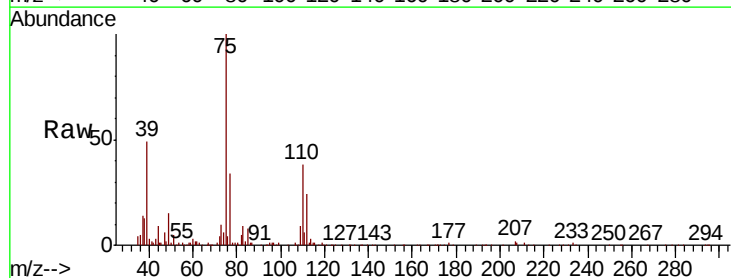
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

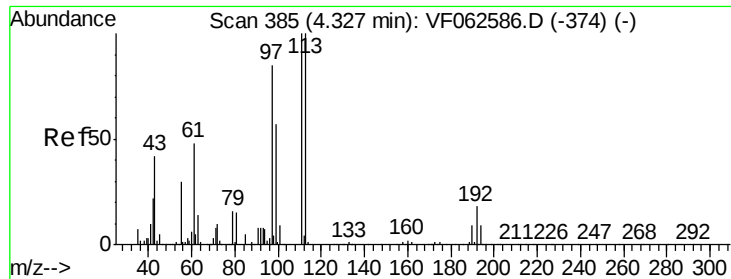
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 94.0  | 83.9  | 125.9 |
| 192     | 12.8  | 13.7  | 20.5  |



#36  
 1,1-Dichloropropene  
 Concen: 17.791 ug/l  
 RT: 4.51 min Scan# 403  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 37.7  | 17.3  | 51.7  |
| 77      | 33.9  | 26.4  | 39.6  |

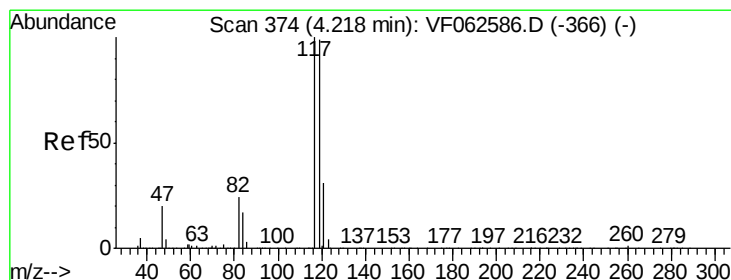
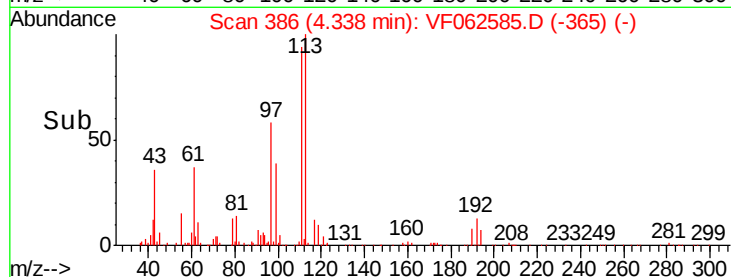
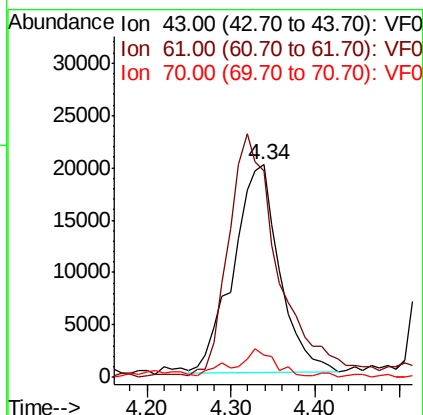
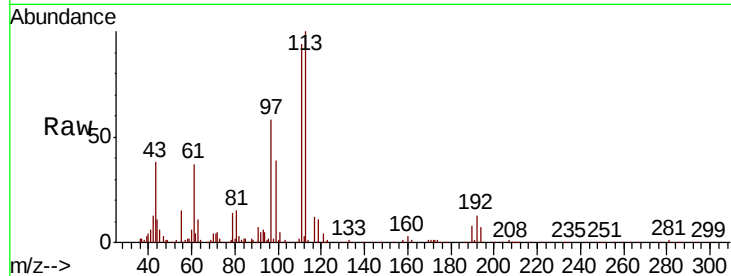




#37  
Ethyl Acetate  
Concen: 15.721 ug/l  
RT: 4.34 min Scan# 386  
Delta R.T. 0.01 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

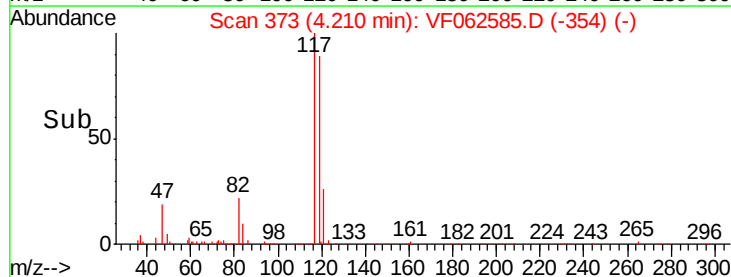
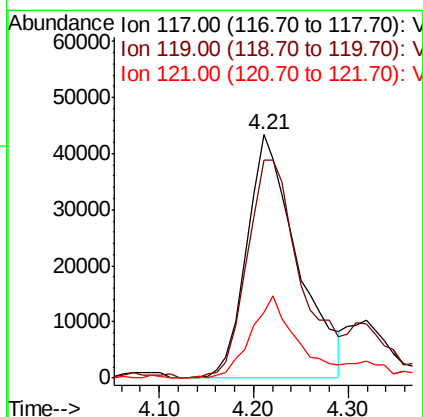
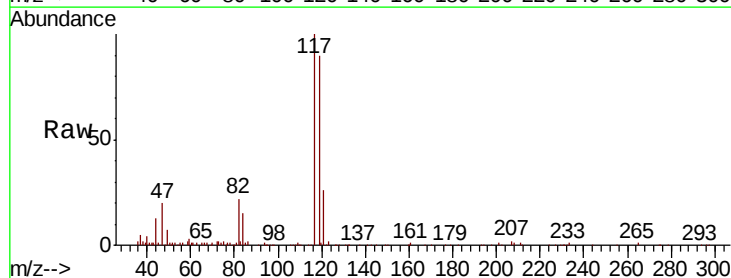
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

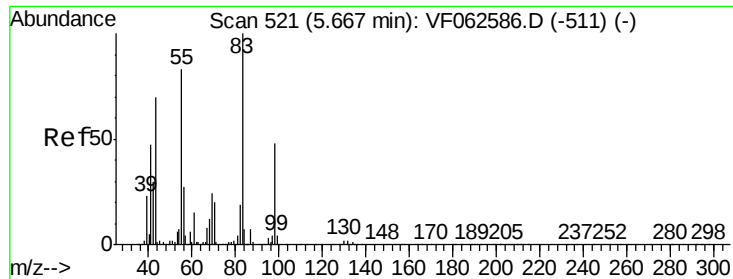
Tot Ion: 43 Resp: 76171  
Ion Ratio Lower Upper  
43 100  
61 97.2 88.6 132.8  
70 10.6 8.3 12.5



#38  
Carbon Tetrachloride  
Concen: 19.929 ug/l  
RT: 4.21 min Scan# 373  
Delta R.T. -0.01 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Tgt Ion: 117 Resp: 161070  
Ion Ratio Lower Upper  
117 100  
119 89.7 79.0 118.6  
121 26.9 25.0 37.6

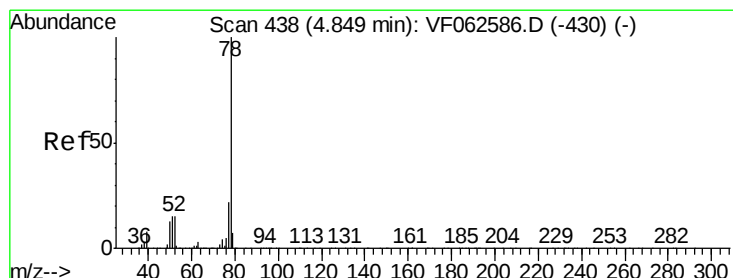
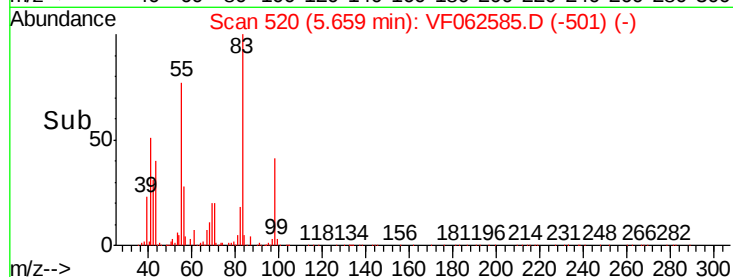
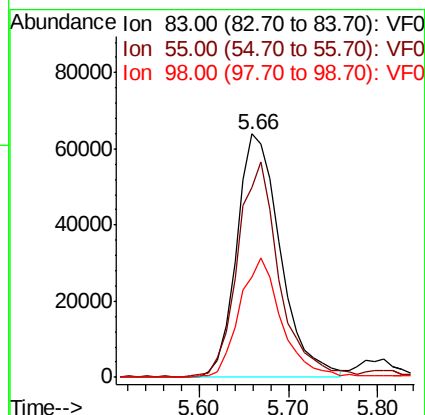
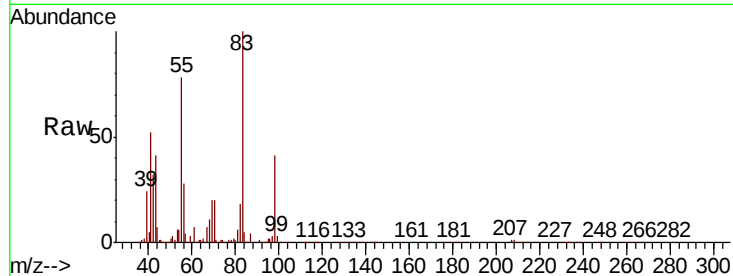




#39  
Methvlcvclohexane  
Concen: 20.583 ug/l  
RT: 5.66 min Scan# 520  
Delta R.T. -0.01 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

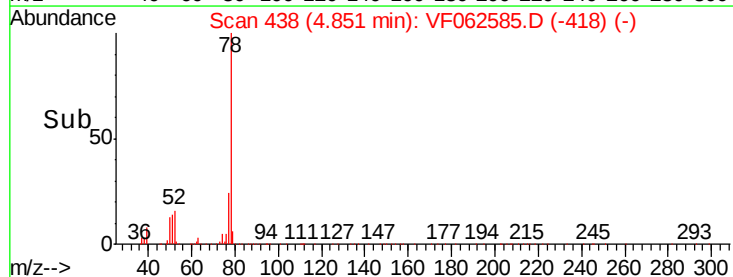
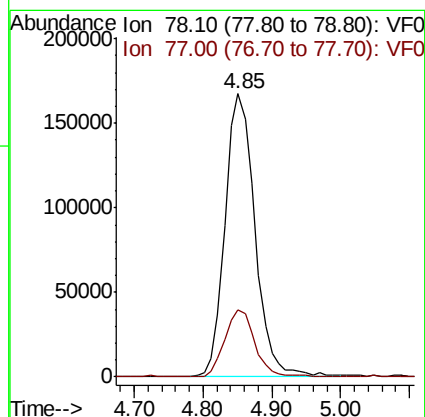
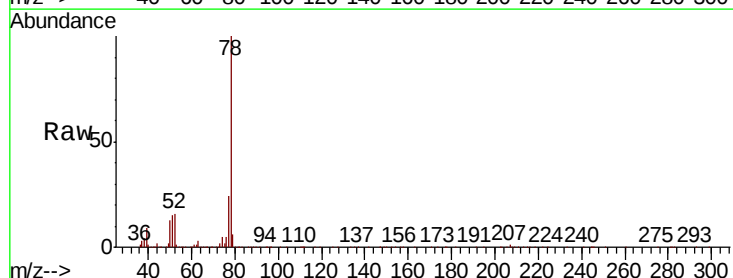
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

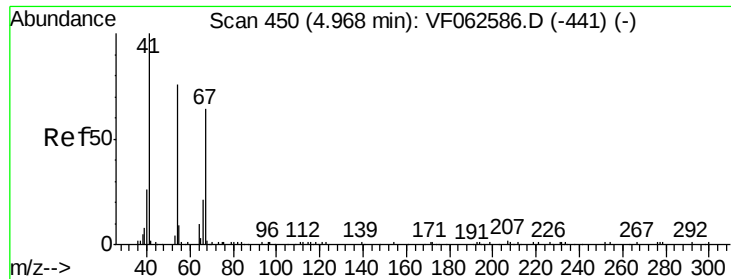
Tot Ion: 83 Resp: 217968  
Ion Ratio Lower Upper  
83 100  
55 77.8 66.6 100.0  
98 41.0 38.3 57.5



#40  
Benzene  
Concen: 21.479 ug/l  
RT: 4.85 min Scan# 438  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Tgt Ion: 78 Resp: 506901  
Ion Ratio Lower Upper  
78 100  
77 23.9 17.7 26.5

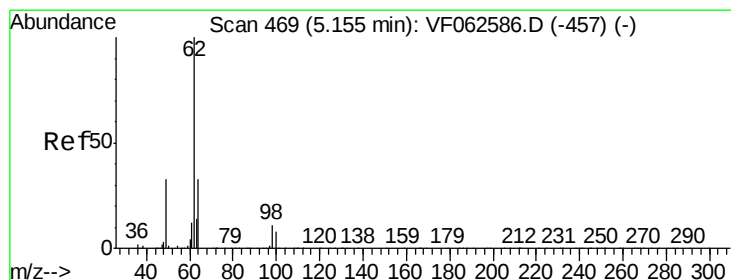
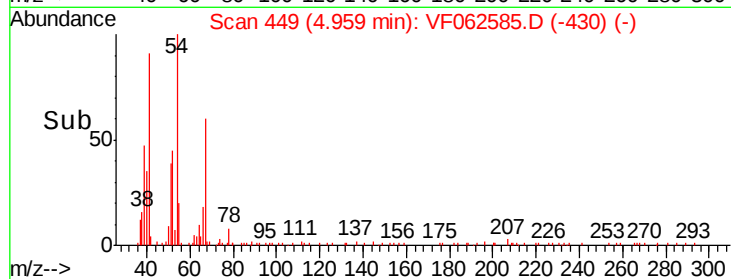
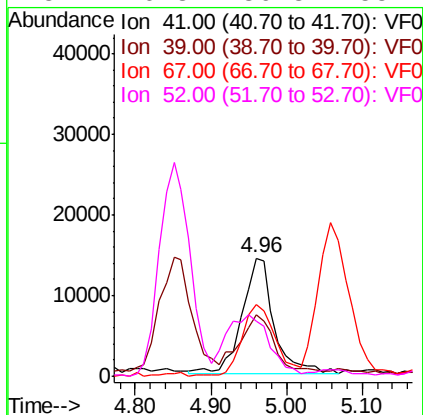
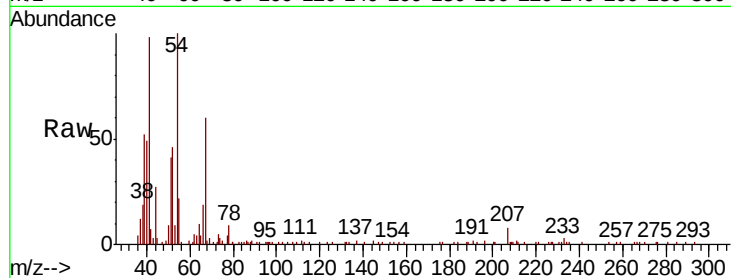




#41  
Methacrylonitrile  
Concen: 15.363 ug/l  
RT: 4.96 min Scan# 449  
Delta R.T. -0.01 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

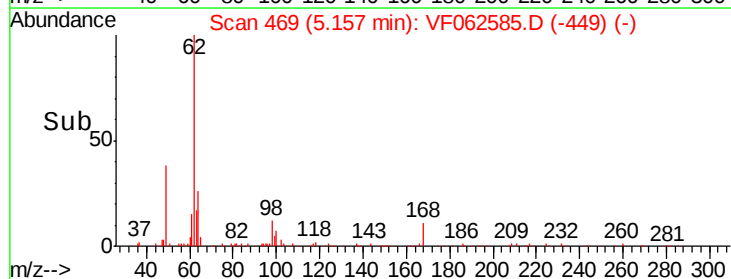
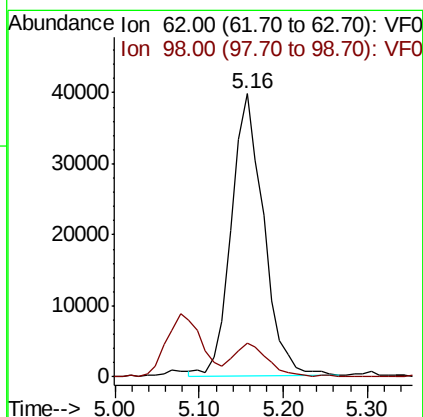
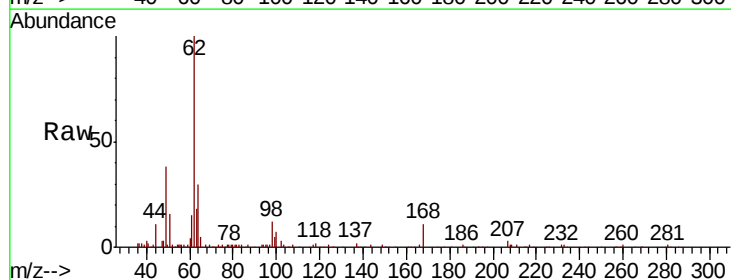
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

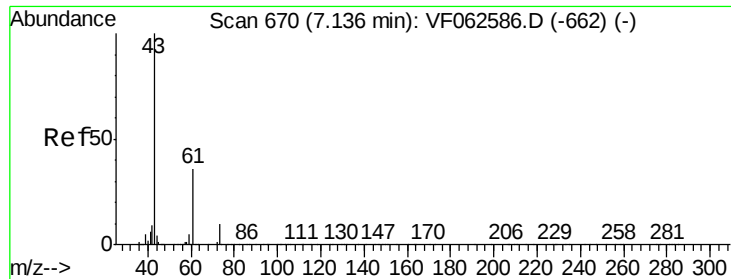
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 41950 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 52.4  | 40.8  | 61.2  |
| 67       | 61.2  | 50.2  | 75.2  |
| 52       | 46.3  | 36.8  | 55.2  |



#42  
1,2-Dichloroethane  
Concen: 12.942 ug/l  
RT: 5.16 min Scan# 469  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 106819 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 11.9  | 0.0   | 22.2   |





#43

Isopropyl Acetate

Concen: 15.892 ug/l

RT: 7.14 min Scan# 670

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

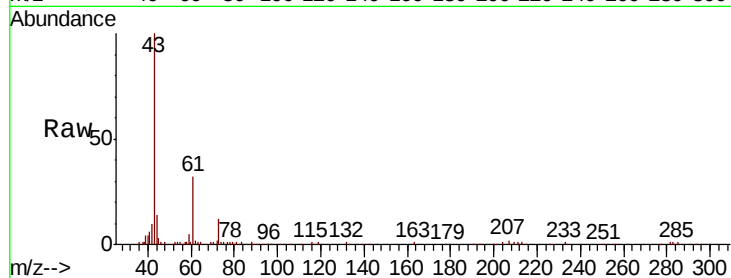
Tot Ion: 43 Resp: 83114

Ion Ratio Lower Upper

43 100

61 31.5 28.5 42.7

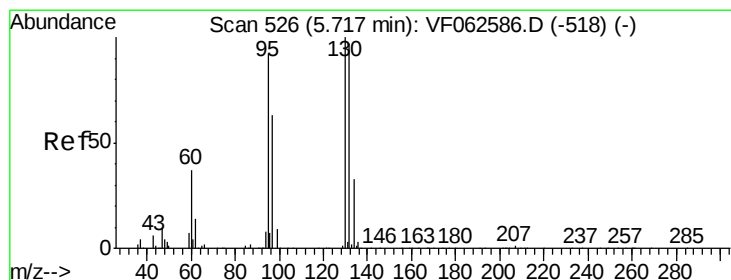
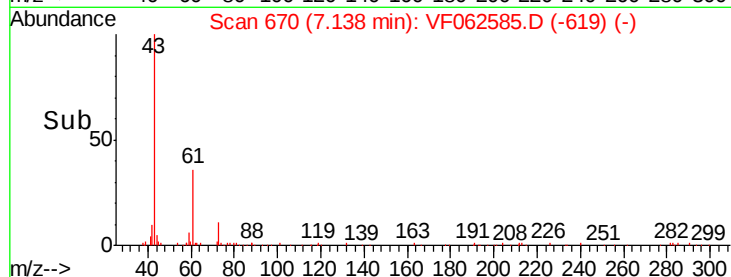
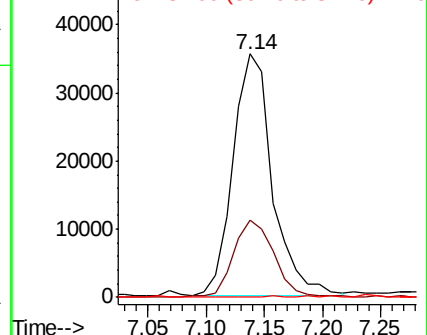
87 0.0 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 19.524 ug/l

RT: 5.72 min Scan# 526

Delta R.T. 0.00 min

Lab File: VF062585.D

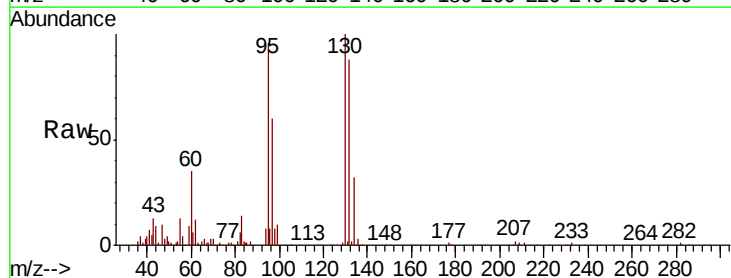
Acq: 14 May 2019 16:23

Tgt Ion: 130 Resp: 139388

Ion Ratio Lower Upper

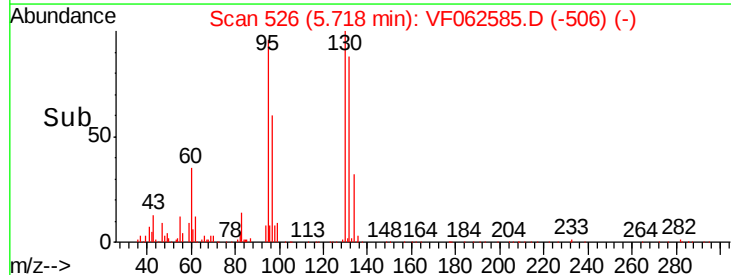
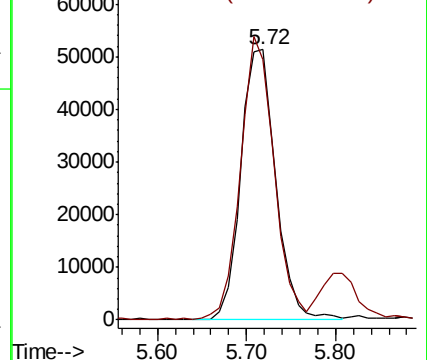
130 100

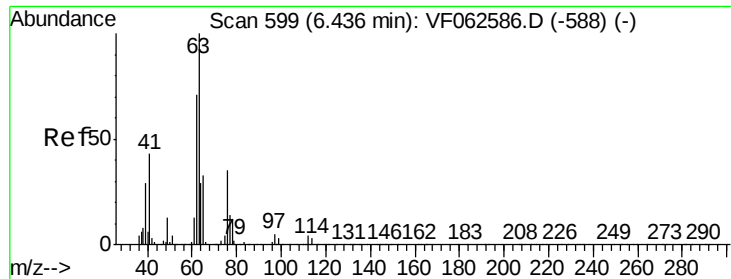
95 96.2 0.0 185.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 22.684 ug/l

RT: 6.44 min Scan# 599

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampled :

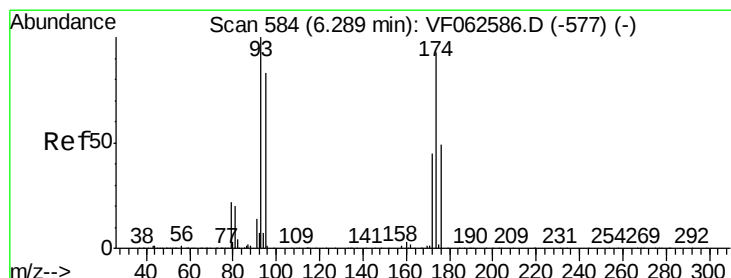
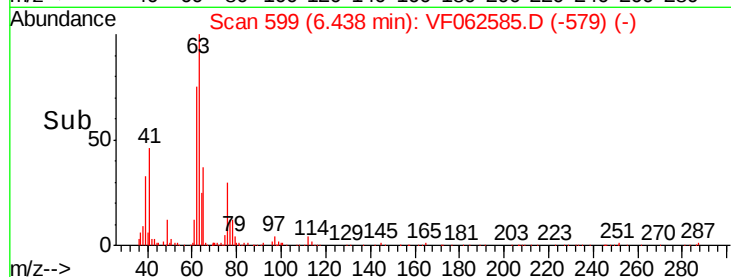
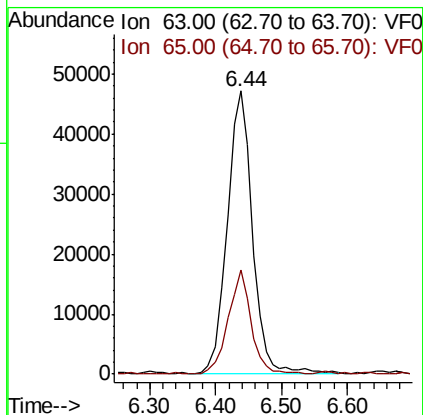
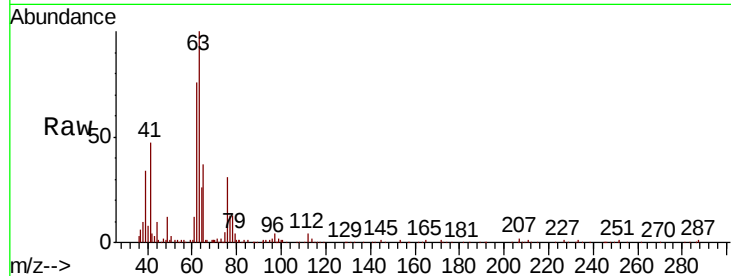
VSTDIC020

Tot Ion: 63 Resp: 127402

Ion Ratio Lower Upper

63 100

65 36.8 26.2 39.4



#46

Dibromomethane

Concen: 19.145 ug/l

RT: 6.29 min Scan# 584

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

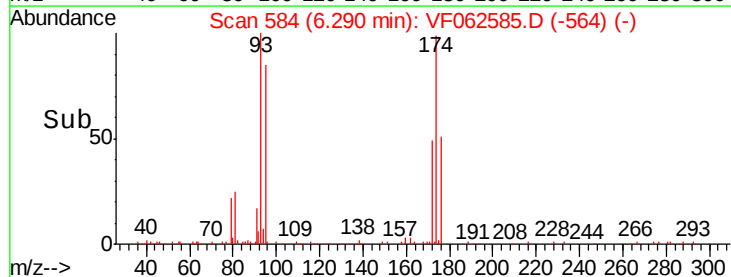
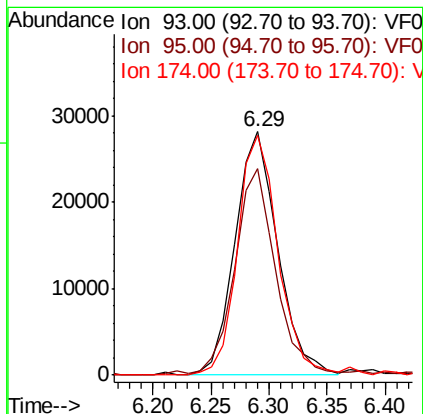
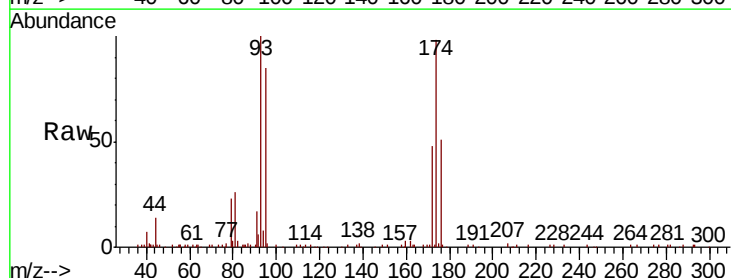
Tgt Ion: 93 Resp: 71620

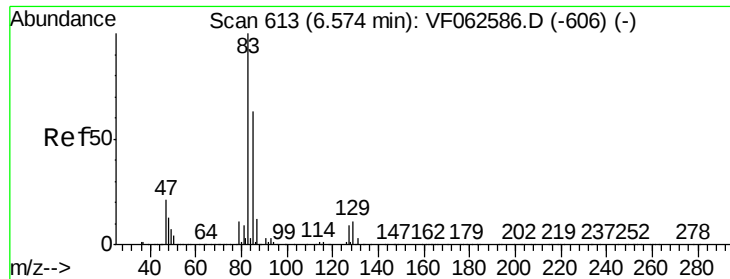
Ion Ratio Lower Upper

93 100

95 84.7 66.9 100.3

174 98.4 74.6 112.0





#47

Bromodichloromethane

Concen: 15.857 ug/l

RT: 6.58 min Scan# 613

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

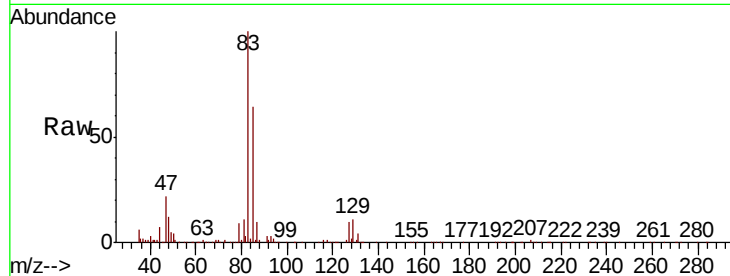
Tot Ion: 83 Resp: 156630

Ion Ratio Lower Upper

83 100

85 63.6 50.3 75.5

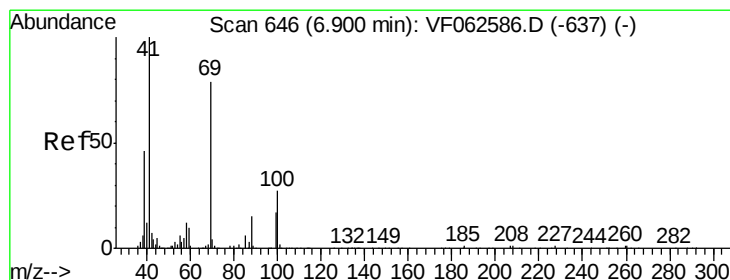
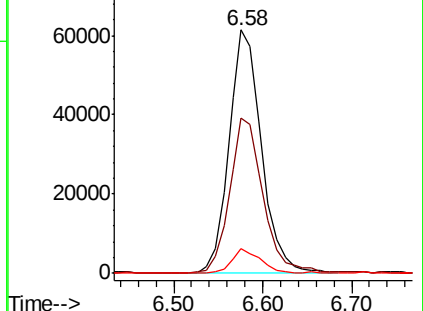
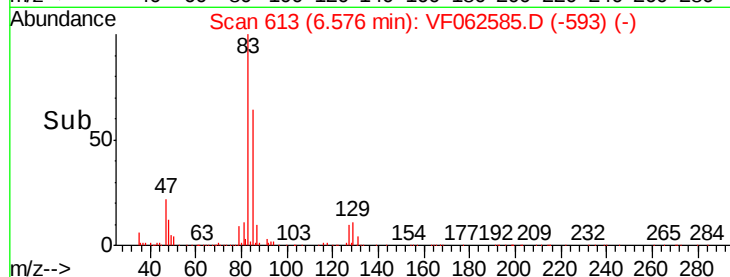
127 10.4 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 11.979 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

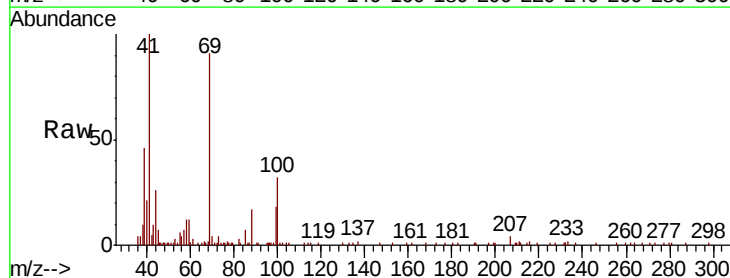
Tgt Ion: 41 Resp: 46523

Ion Ratio Lower Upper

41 100

69 91.2 63.0 94.6

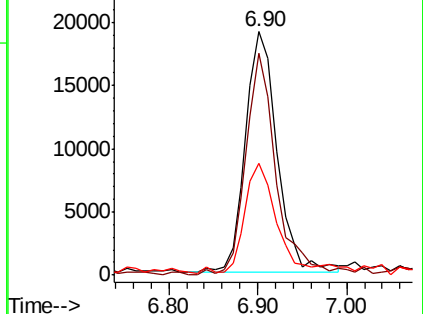
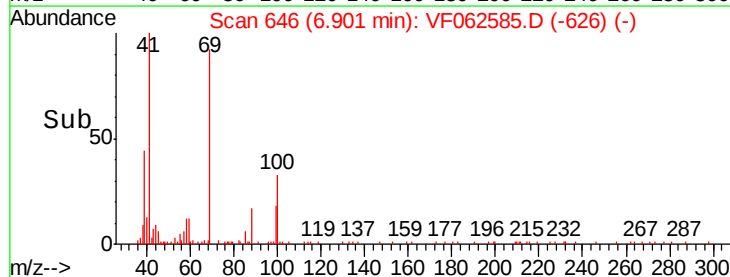
39 46.1 37.6 56.4

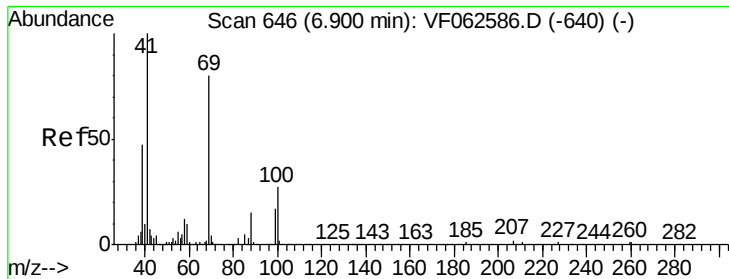


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 456.191 ug/l

RT: 6.89 min Scan# 645

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

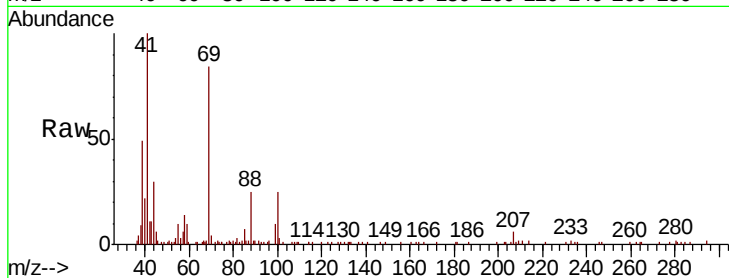
Tot Ion: 88 Resp: 11528

Ion Ratio Lower Upper

88 100

43 44.2 28.8 43.2#

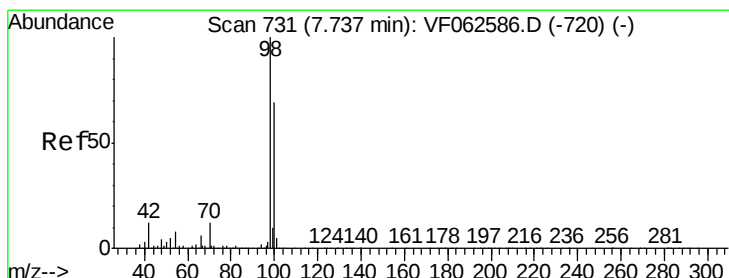
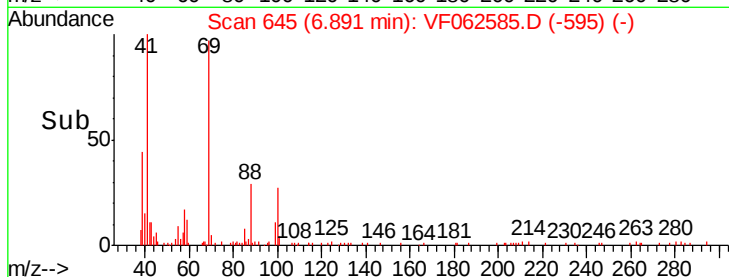
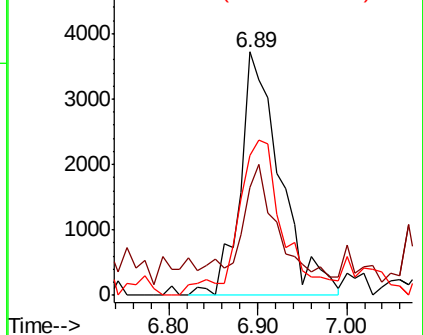
58 57.3 60.6 90.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 17.087 ug/l

RT: 7.74 min Scan# 731

Delta R.T. 0.00 min

Lab File: VF062585.D

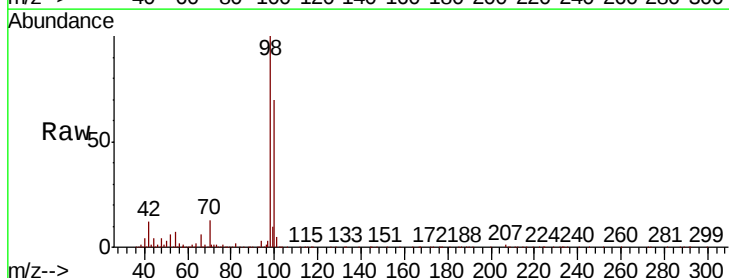
Acq: 14 May 2019 16:23

Tgt Ion: 98 Resp: 346755

Ion Ratio Lower Upper

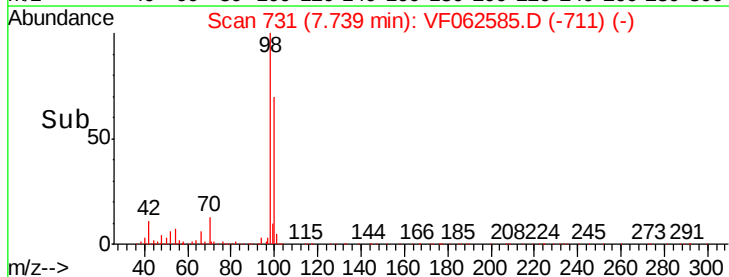
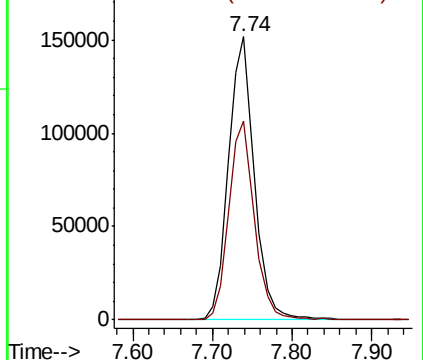
98 100

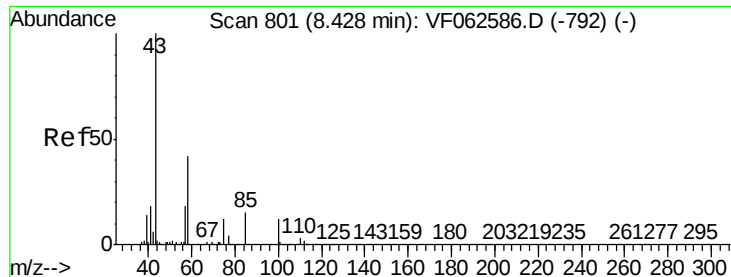
100 70.3 55.4 83.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 80.389 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

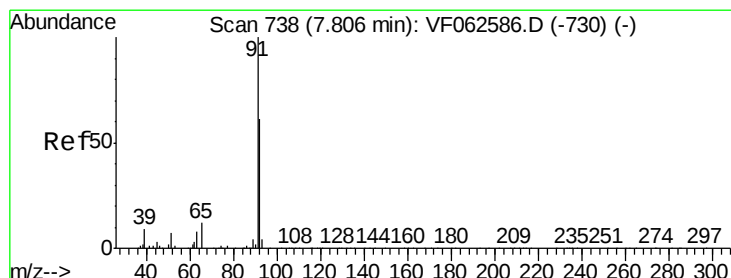
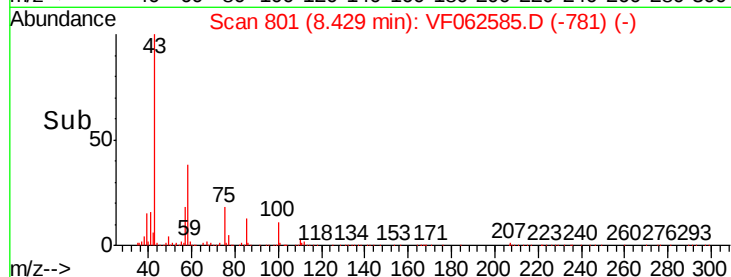
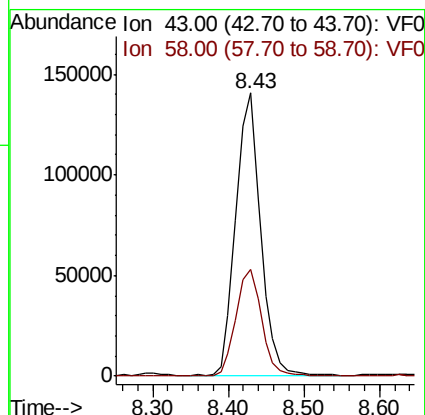
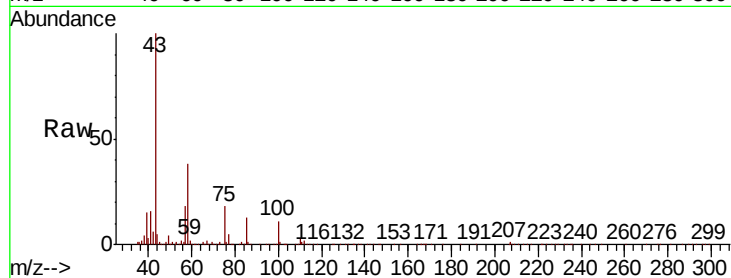
VSTDIC020

Tot Ion: 43 Resp: 317084

Ion Ratio Lower Upper

43 100

58 37.8 33.6 50.4



#52

Toluene

Concen: 18.256 ug/l

RT: 7.81 min Scan# 738

Delta R.T. 0.00 min

Lab File: VF062585.D

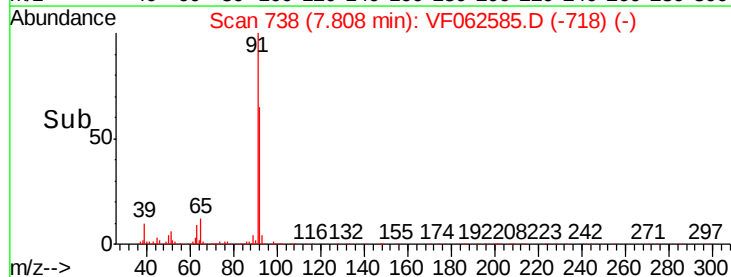
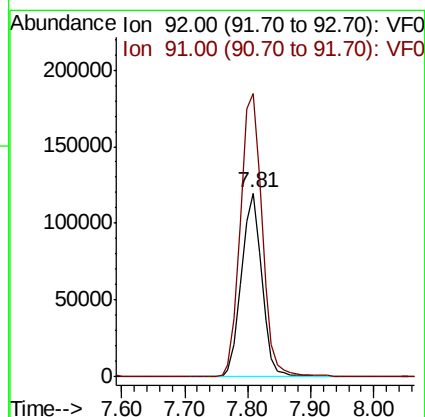
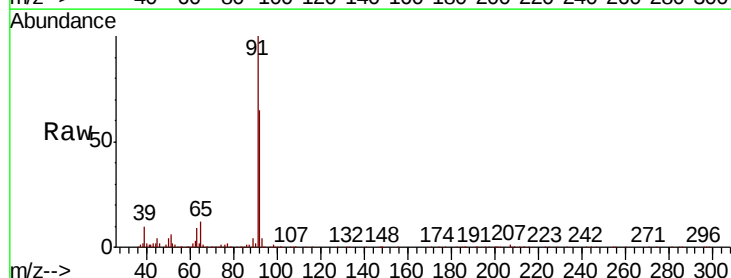
Acq: 14 May 2019 16:23

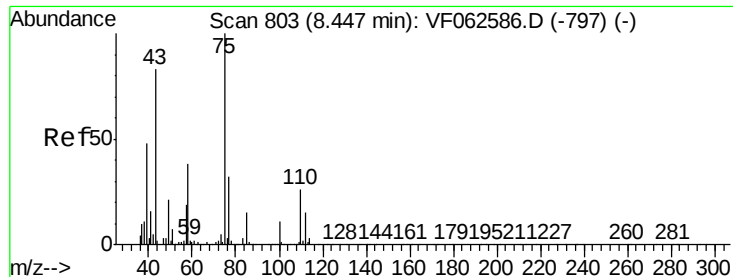
Tgt Ion: 92 Resp: 267288

Ion Ratio Lower Upper

92 100

91 153.9 131.0 196.4

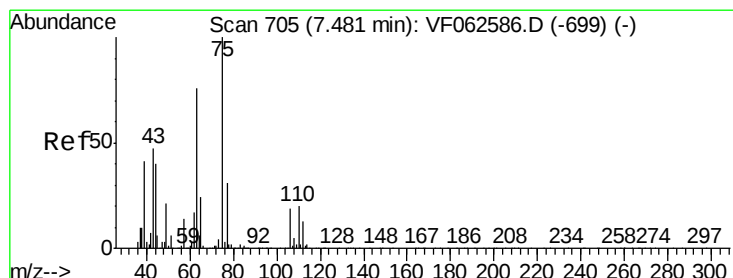
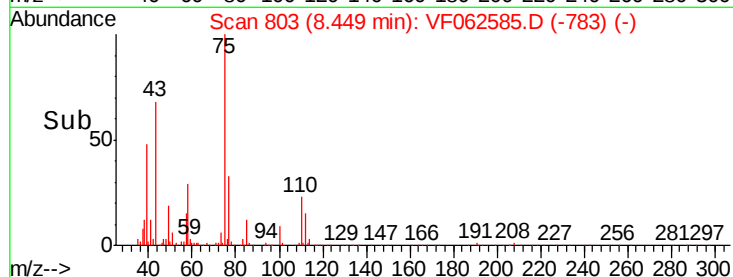
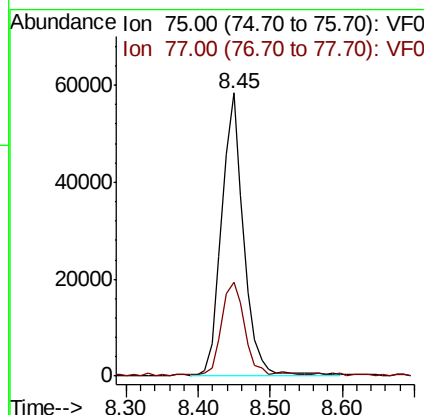
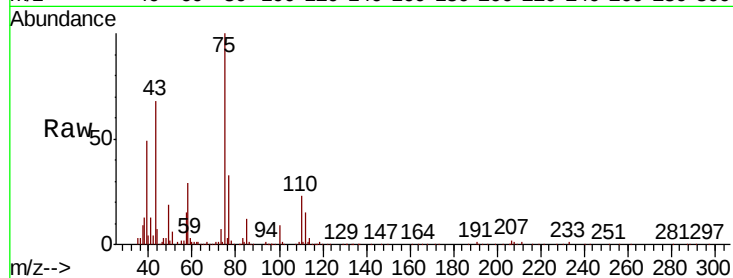




#53  
 t-1,3-Dichloropropene  
 Concen: 15.669 ug/l  
 RT: 8.45 min Scan# 803  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

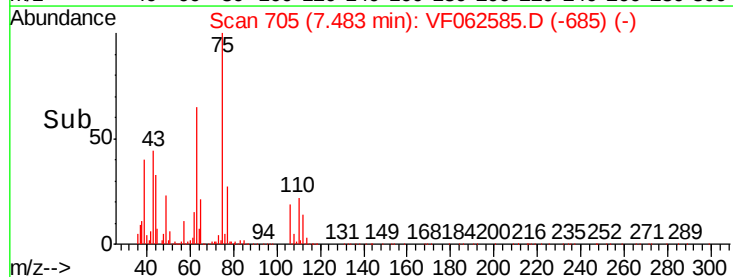
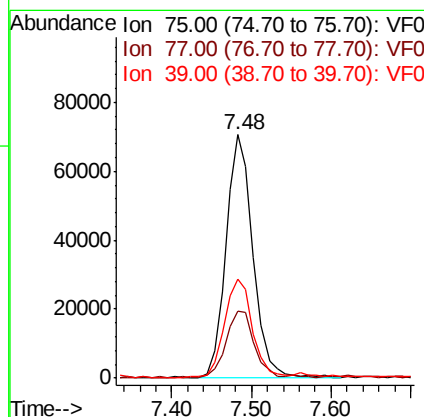
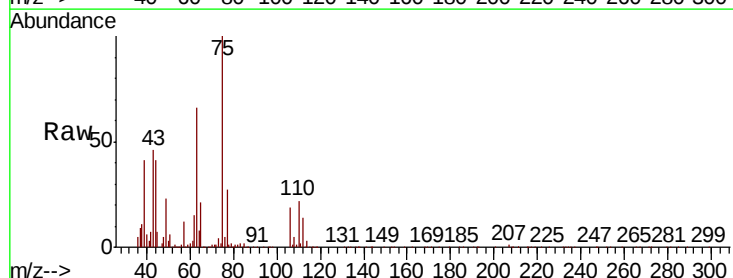
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

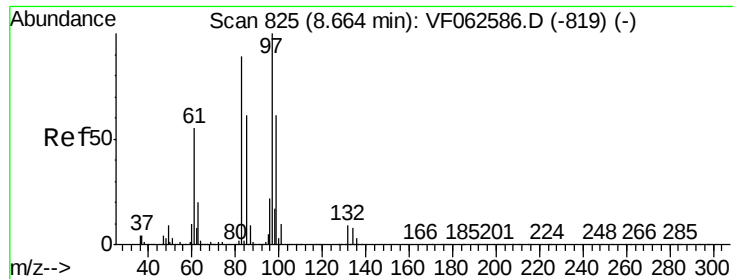
Tot Ion: 75 Resp: 124227  
 Ion Ratio Lower Upper  
 75 100  
 77 33.1 25.7 38.5



#54  
 cis-1,3-Dichloropropene  
 Concen: 17.100 ug/l  
 RT: 7.48 min Scan# 705  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

Tgt Ion: 75 Resp: 168264  
 Ion Ratio Lower Upper  
 75 100  
 77 27.5 25.0 37.6  
 39 40.5 32.8 49.2





#55

1,1,2-Trichloroethane

Concen: 18.356 ug/l

RT: 8.66 min Scan# 824

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

Tot Ion: 97 Resp: 75185

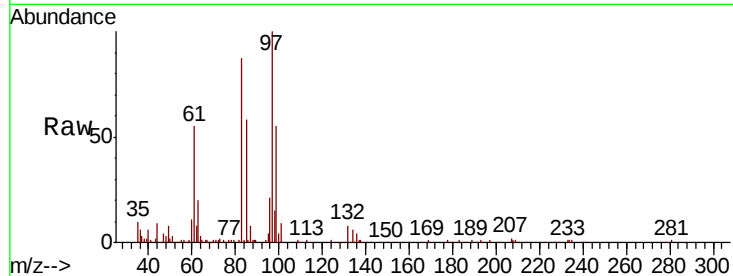
Ion Ratio Lower Upper

97 100

83 86.7 71.3 106.9

85 58.1 48.9 73.3

99 54.8 48.4 72.6

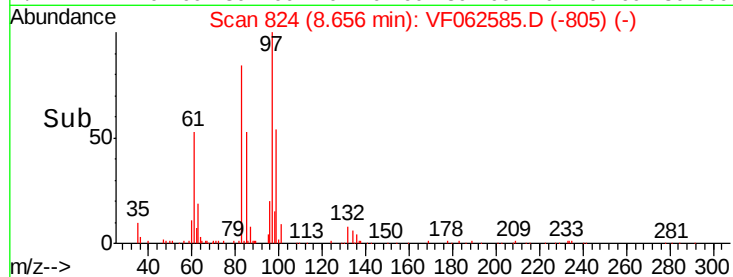
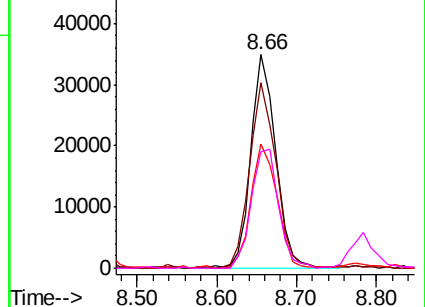


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 15.586 ug/l

RT: 8.78 min Scan# 837

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

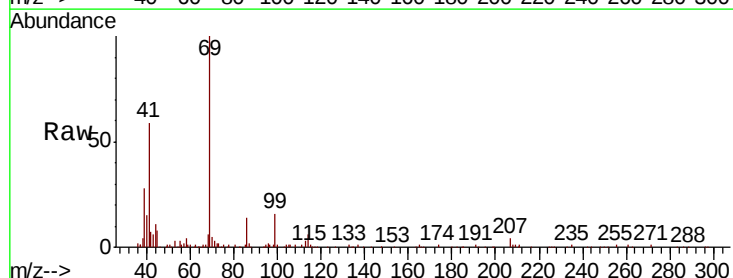
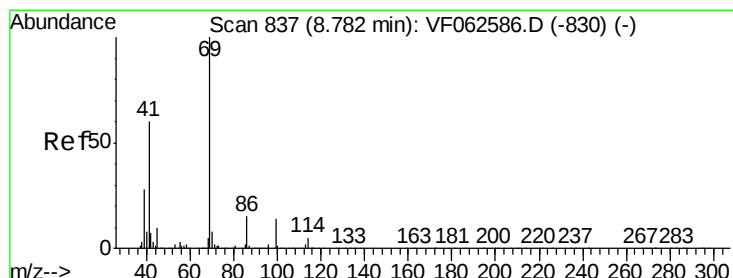
Tgt Ion: 69 Resp: 83665

Ion Ratio Lower Upper

69 100

41 58.7 48.1 72.1

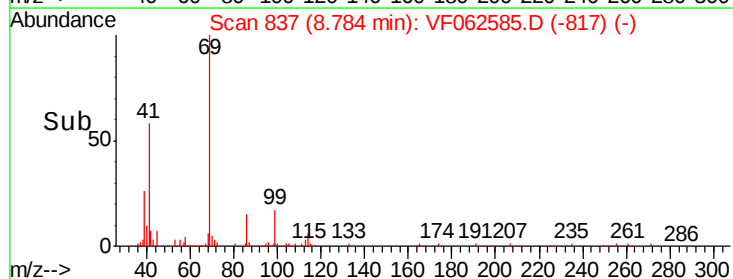
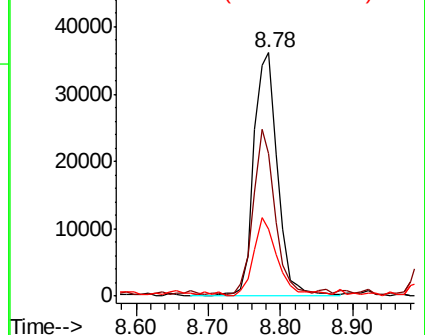
39 27.8 22.5 33.7

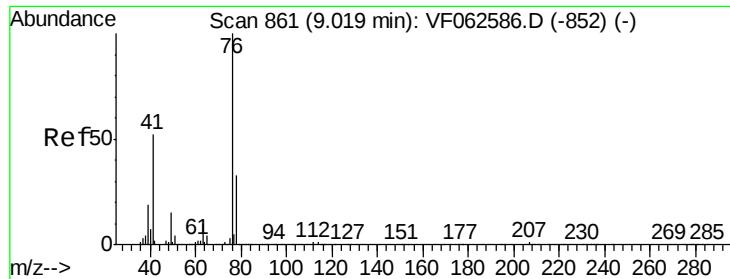


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

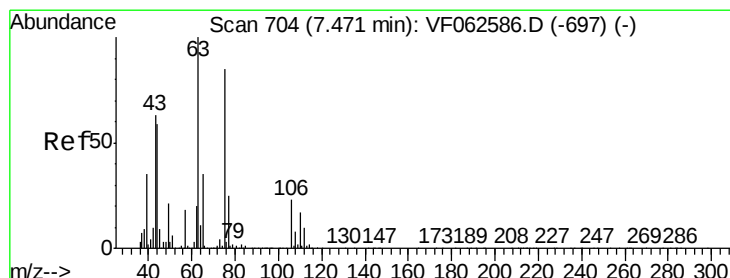
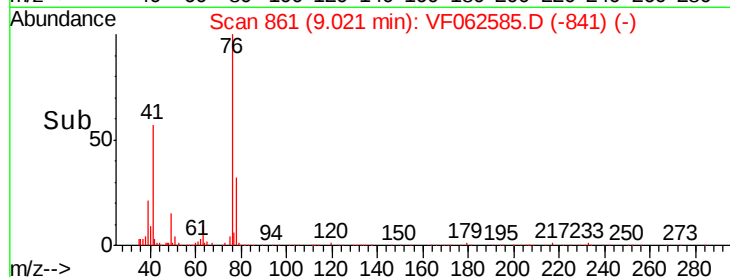
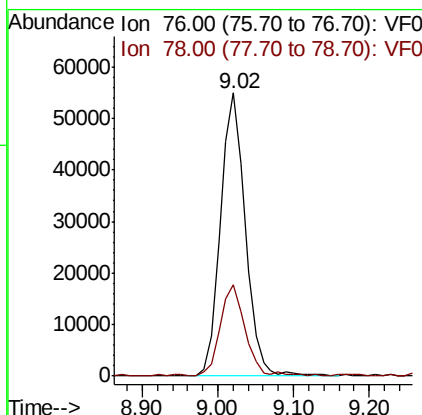
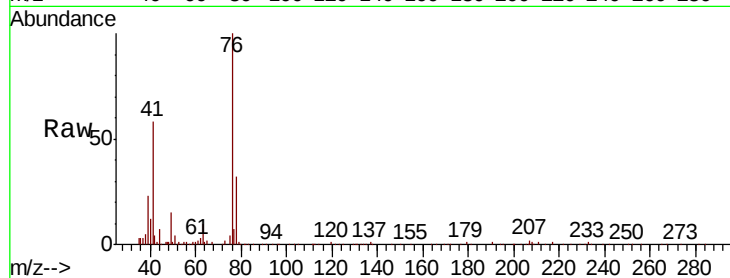




#57  
 1,3-Dichloropropane  
 Concen: 18.218 ug/l  
 RT: 9.02 min Scan# 861  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

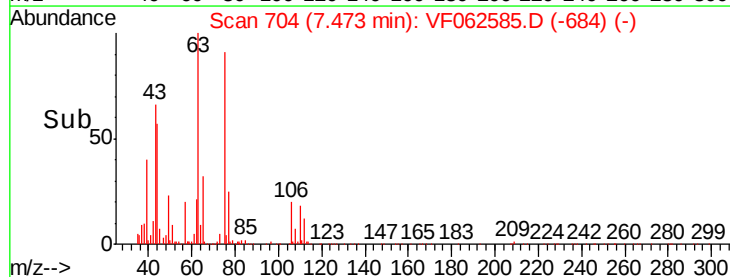
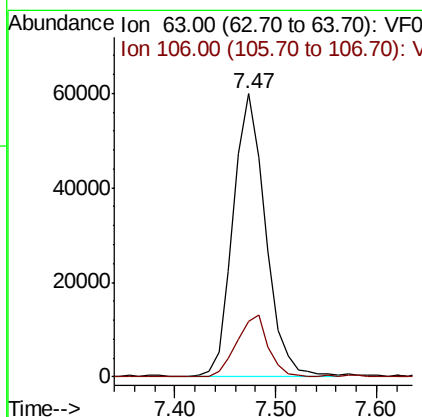
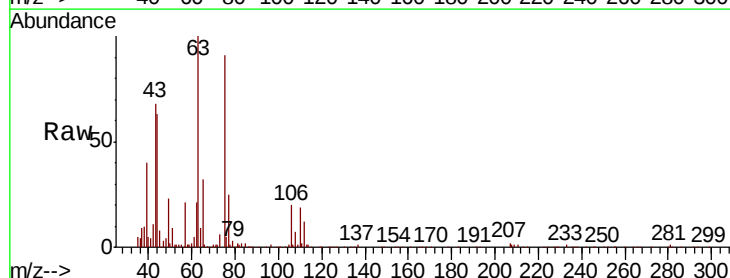
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

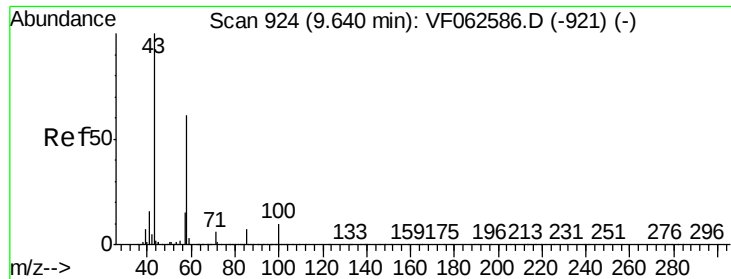
Tot Ion: 76 Resp: 125655  
 Ion Ratio Lower Upper  
 76 100  
 78 32.1 26.4 39.6



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 158.917 ug/l  
 RT: 7.47 min Scan# 704  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

Tgt Ion: 63 Resp: 134915  
 Ion Ratio Lower Upper  
 63 100  
 106 19.8 18.0 27.0

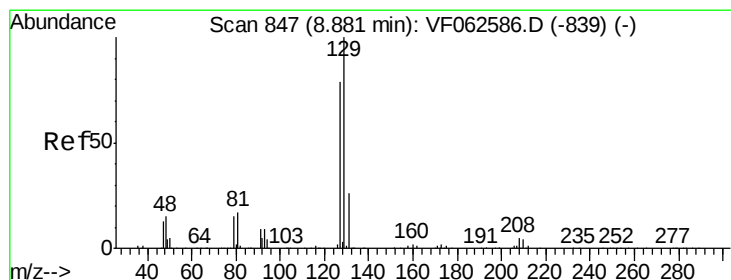
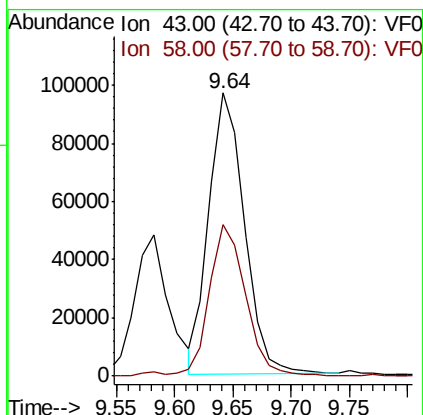
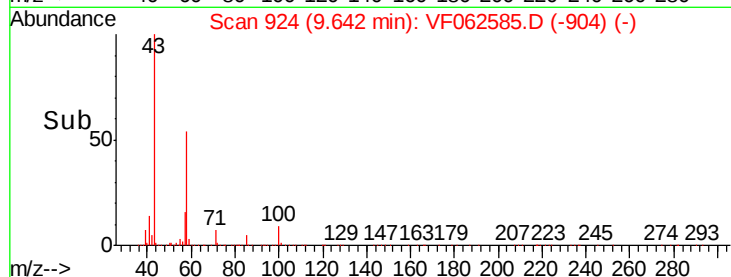
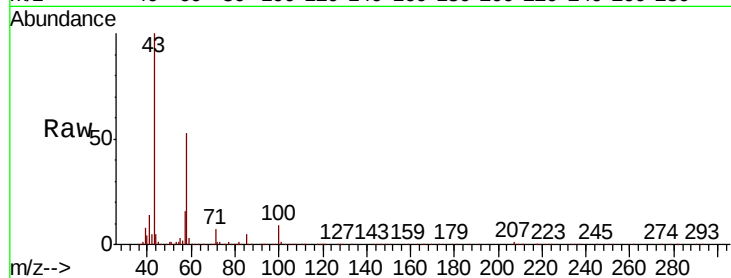




#59  
2-Hexanone  
Concen: 73.958 ug/l  
RT: 9.64 min Scan# 924  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

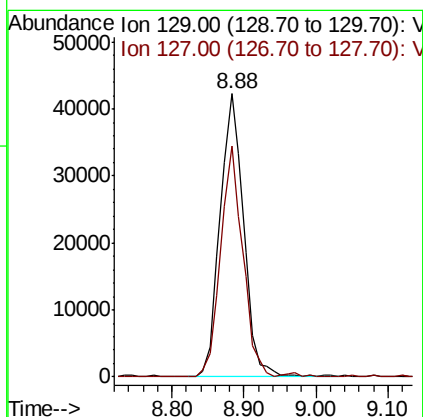
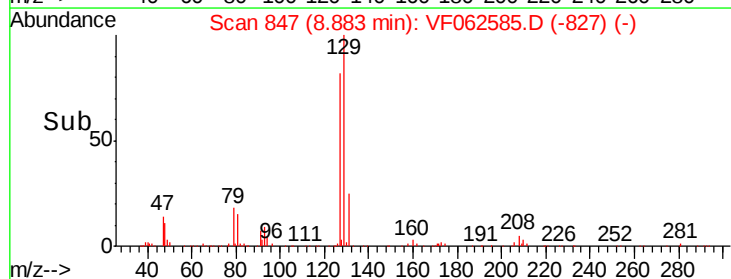
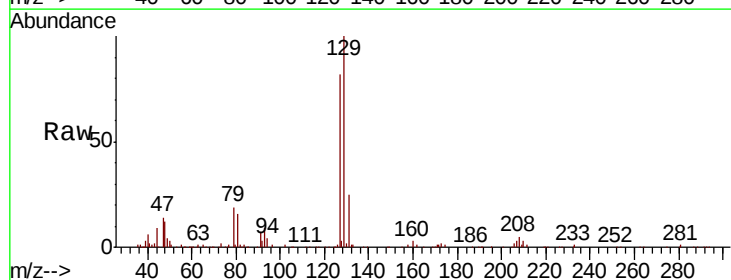
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

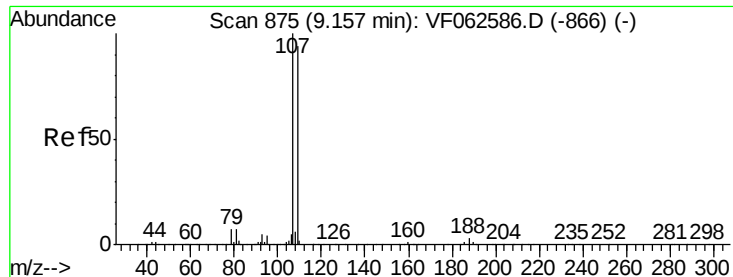
Tot Ion: 43 Resp: 205426  
Ion Ratio Lower Upper  
43 100  
58 53.5 28.7 86.3



#60  
Dibromochloromethane  
Concen: 16.386 ug/l  
RT: 8.88 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Tgt Ion: 129 Resp: 95584  
Ion Ratio Lower Upper  
129 100  
127 81.6 39.3 117.9





#61

1,2-Dibromoethane

Concen: 17.738 ug/l

RT: 9.16 min Scan# 875

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

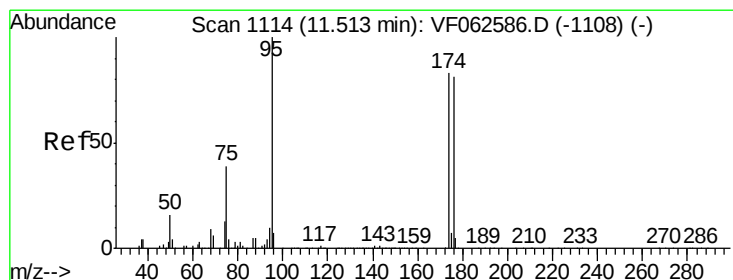
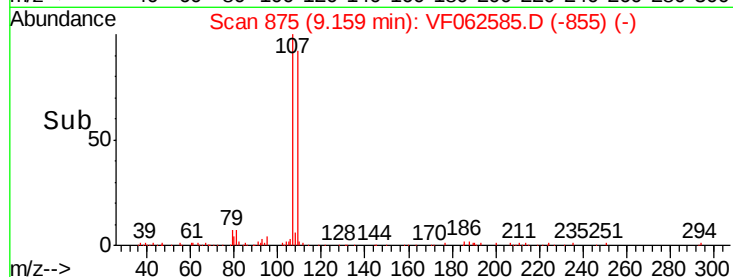
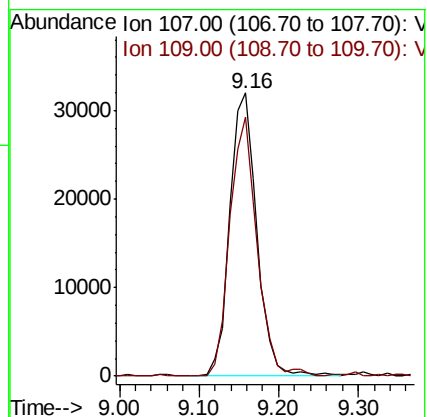
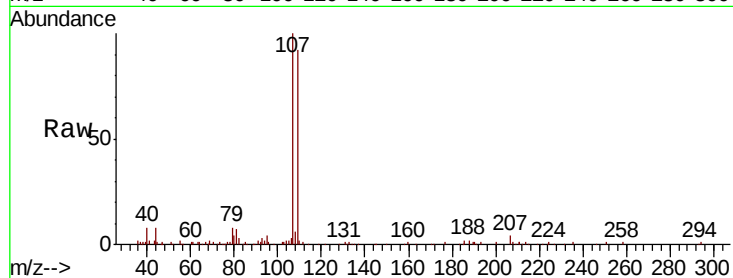
VSTDIC020

Tot Ion:107 Resp: 76410

Ion Ratio Lower Upper

107 100

109 91.6 74.9 112.3



#62

4-Bromofluorobenzene

Concen: 15.039 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

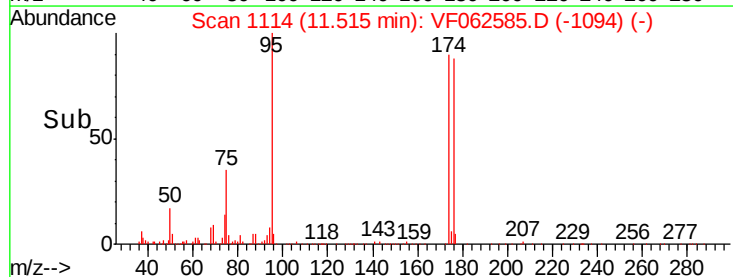
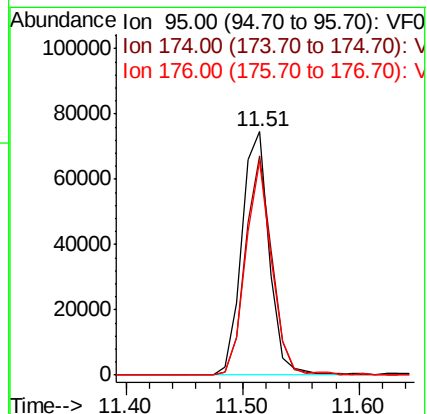
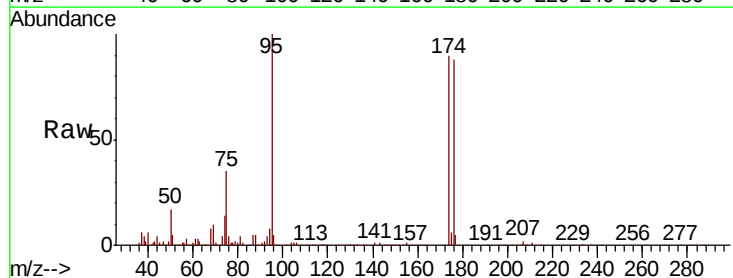
Tgt Ion: 95 Resp: 121913

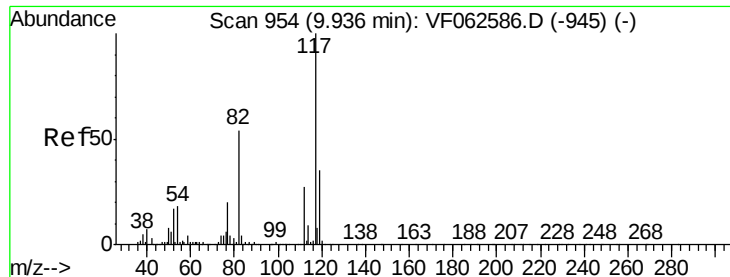
Ion Ratio Lower Upper

95 100

174 90.1 0.0 166.6

176 87.8 0.0 161.8

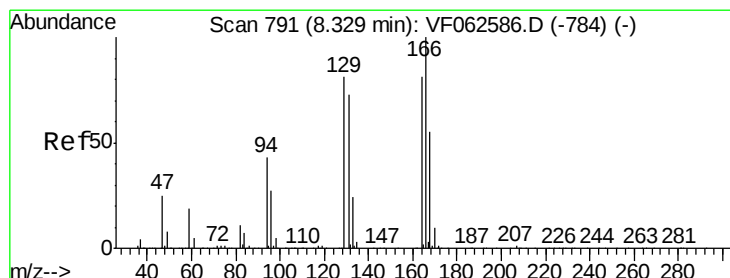
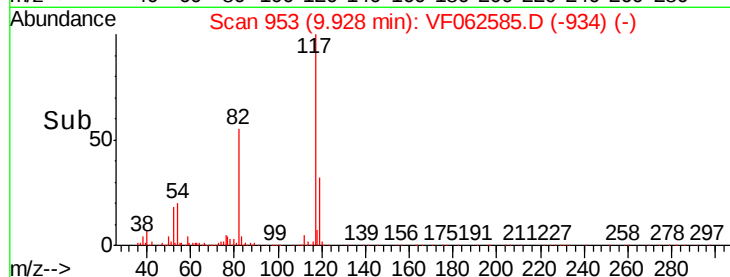
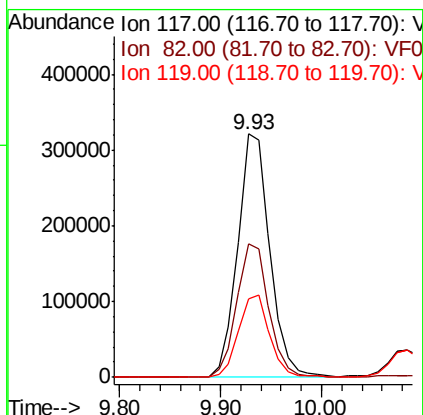
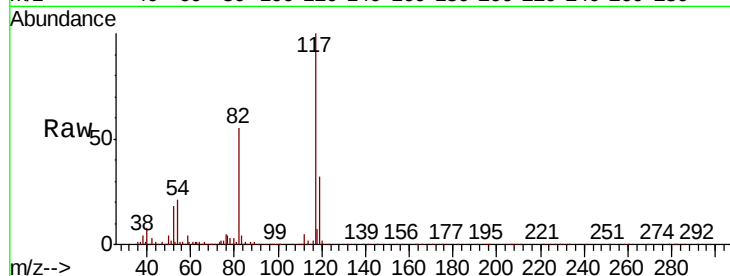




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.93 min Scan# 953  
Delta R.T. -0.01 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

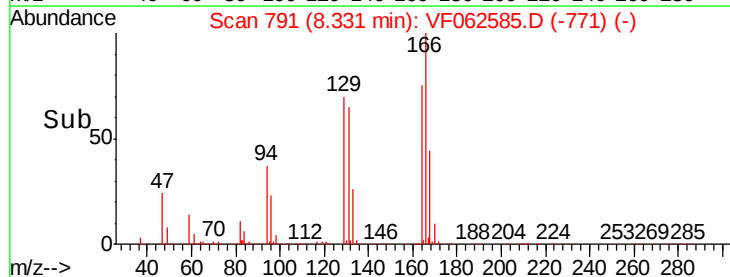
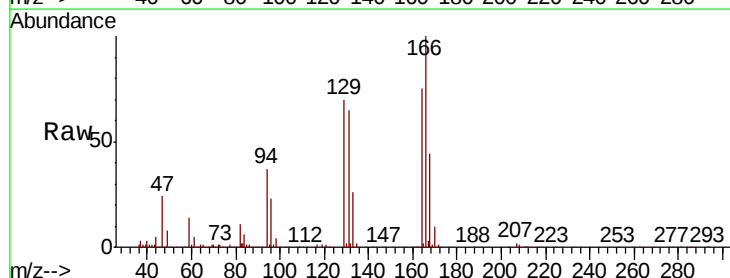
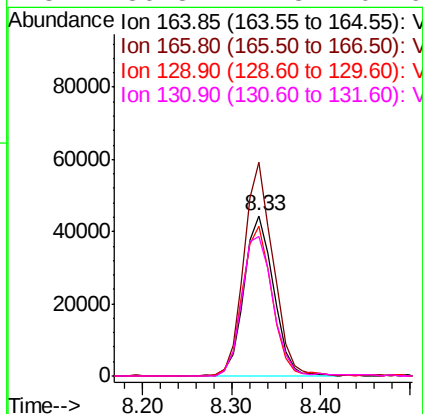
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

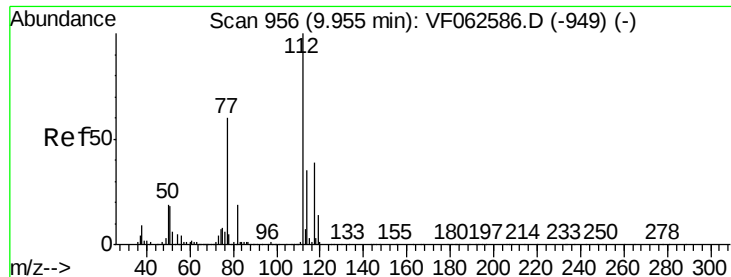
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.8  | 43.4  | 65.0  |
| 119     | 32.1  | 27.7  | 41.5  |



#64  
Tetrachloroethene  
Concen: 19.631 ug/l  
RT: 8.33 min Scan# 791  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 133.1 | 98.6  | 148.0 |
| 129     | 93.4  | 80.2  | 120.4 |
| 131     | 86.8  | 71.8  | 107.6 |





#65

Chlorobenzene

Concen: 19.139 ug/l

RT: 9.96 min Scan# 956

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

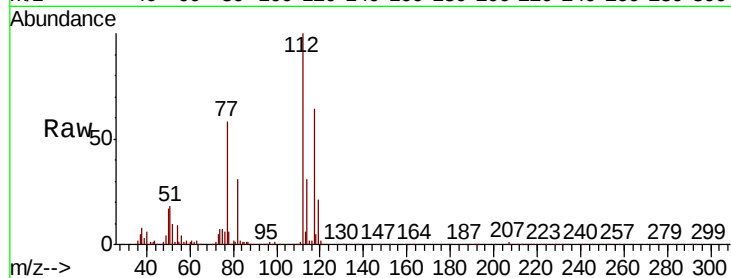
VSTDIC020

Tot Ion:112 Resp: 262537

Ion Ratio Lower Upper

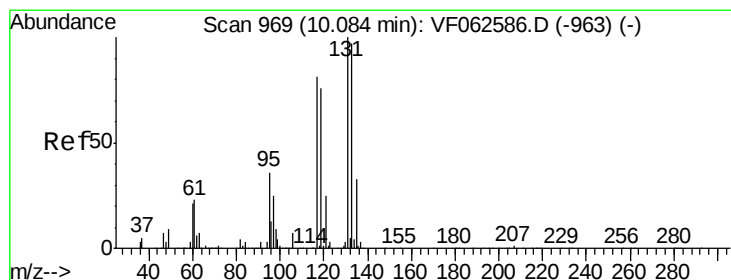
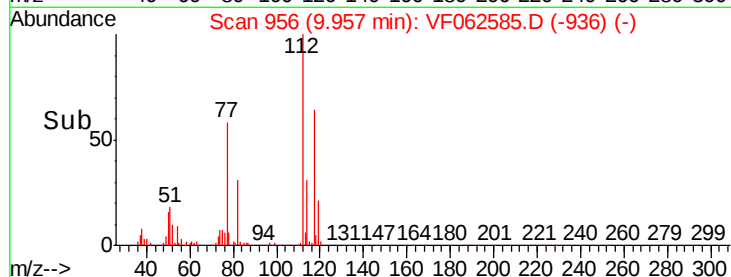
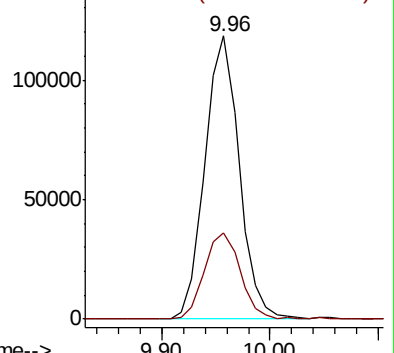
112 100

114 30.7 27.9 41.9



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 18.354 ug/l

RT: 10.09 min Scan# 969

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

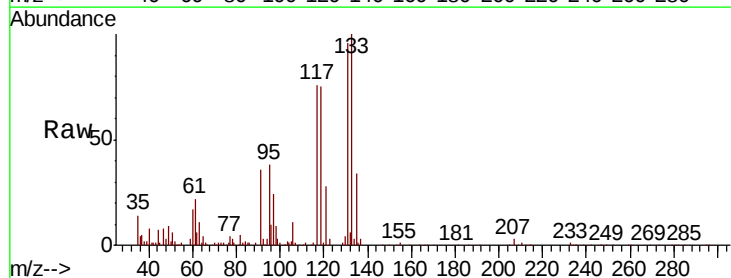
Tgt Ion:131 Resp: 108656

Ion Ratio Lower Upper

131 100

133 104.4 48.4 145.3

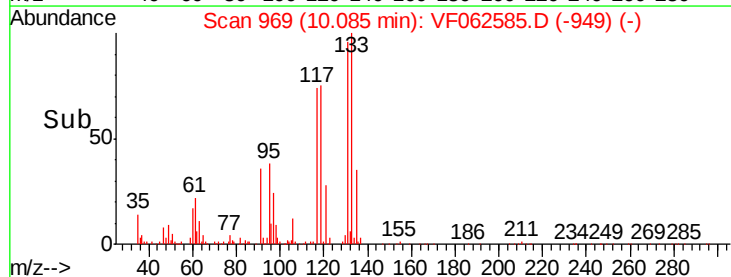
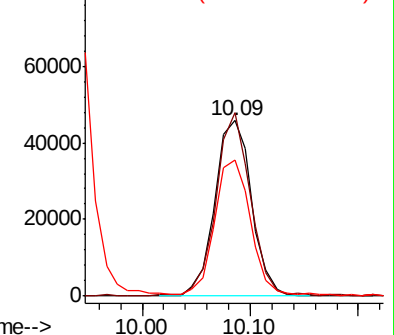
119 77.9 38.5 115.5

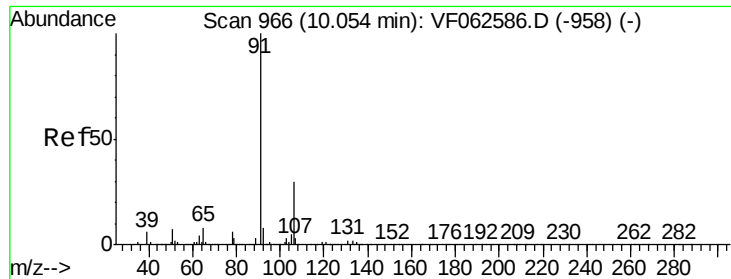


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

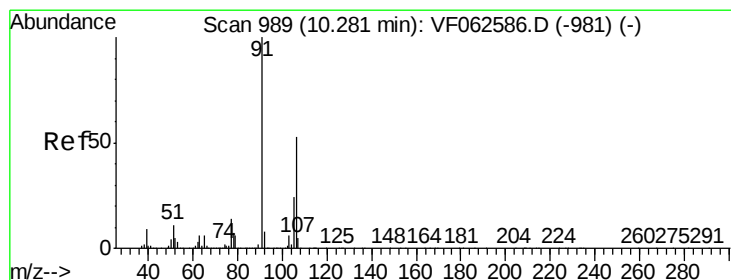
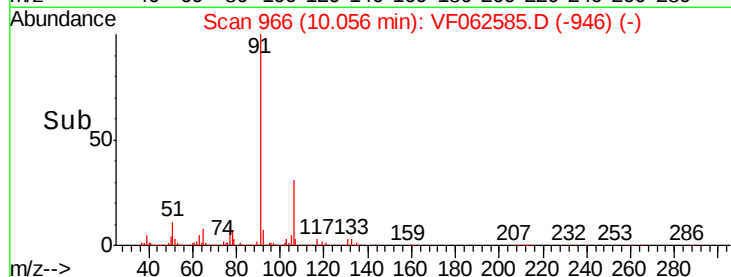
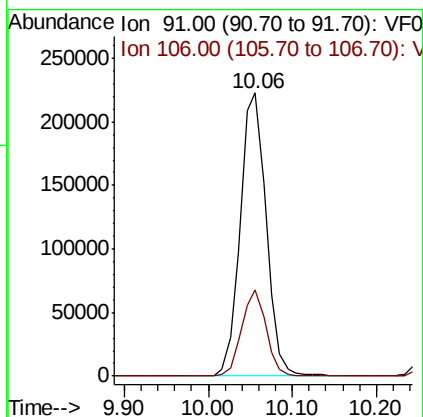
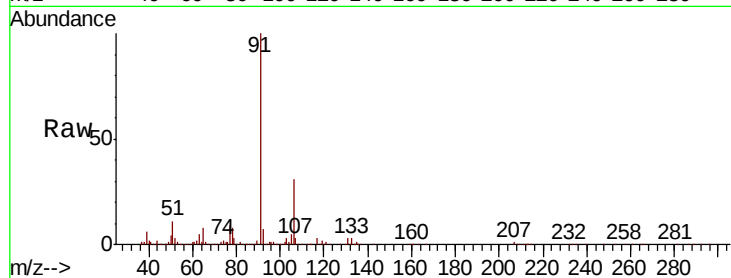




#67  
Ethyl Benzene  
Concen: 18.074 ug/l  
RT: 10.06 min Scan# 966  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

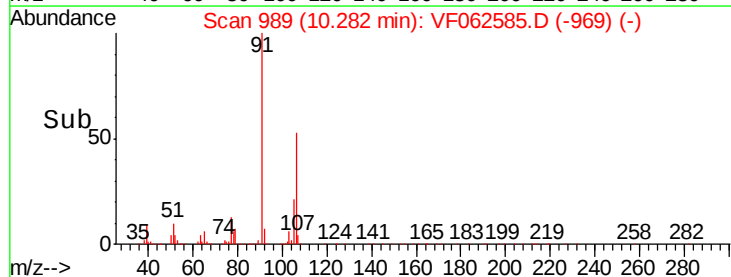
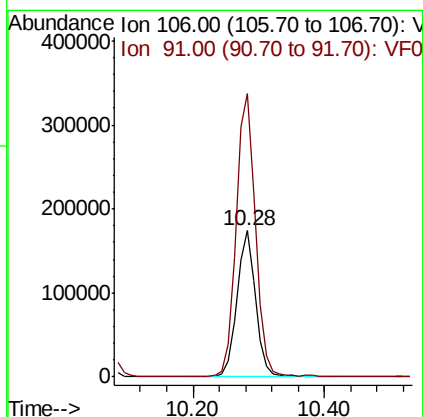
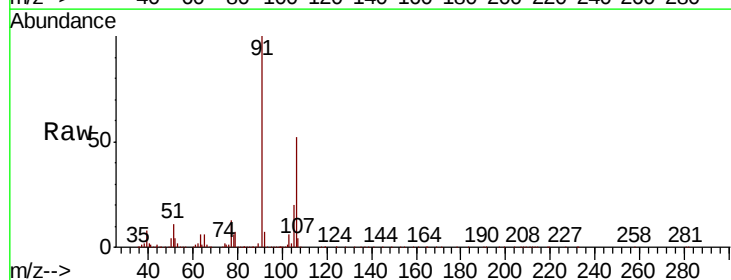
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

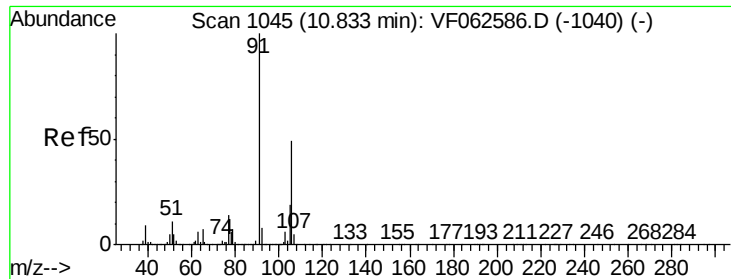
Tot Ion: 91 Resp: 479227  
Ion Ratio Lower Upper  
91 100  
106 30.7 24.2 36.4



#68  
m/p-Xylenes  
Concen: 36.344 ug/l  
RT: 10.28 min Scan# 989  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Tgt Ion: 106 Resp: 345303  
Ion Ratio Lower Upper  
106 100  
91 194.0 150.5 225.7

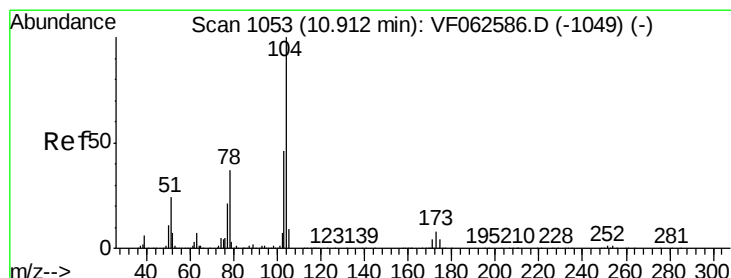
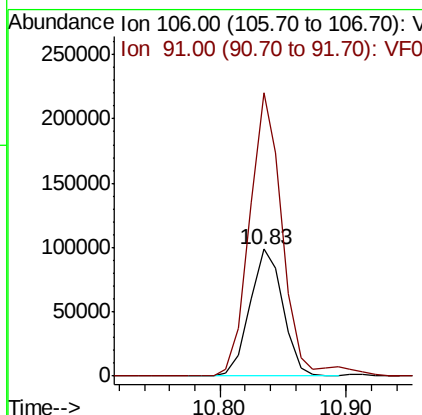
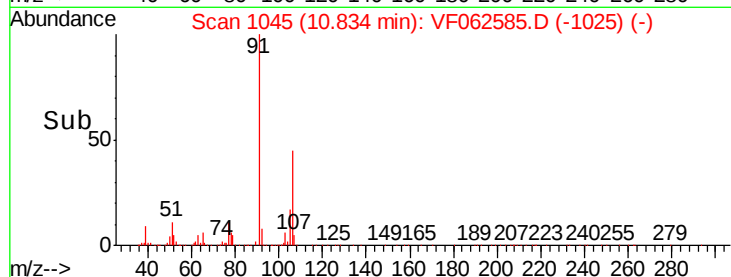
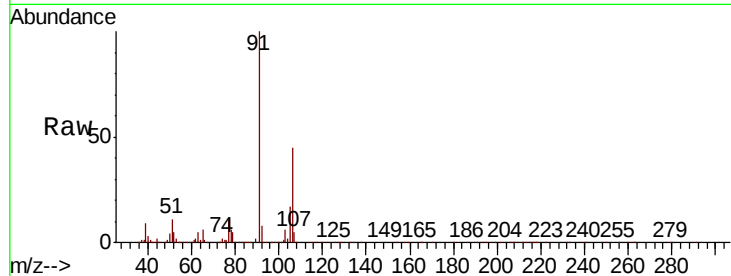




#69  
o-Xylene  
Concen: 18.872 ug/l  
RT: 10.83 min Scan# 1045  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

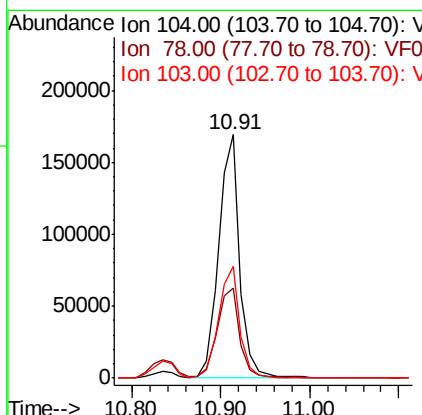
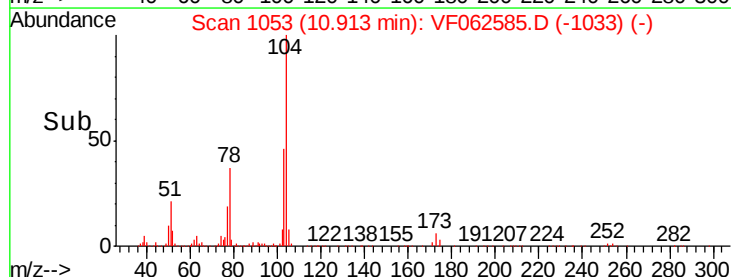
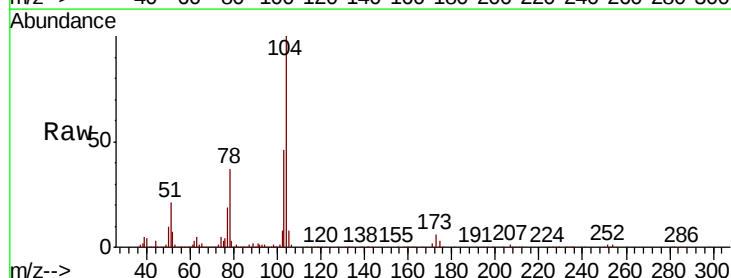
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

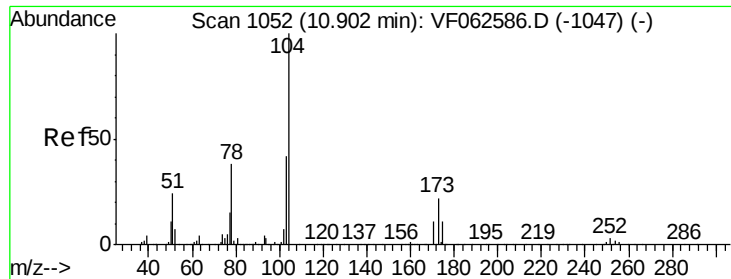
Tot Ion:106 Resp: 180360  
Ion Ratio Lower Upper  
106 100  
91 222.9 102.0 305.9



#70  
Styrene  
Concen: 19.027 ug/l  
RT: 10.91 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VF062585.D  
Acq: 14 May 2019 16:23

Tgt Ion:104 Resp: 278228  
Ion Ratio Lower Upper  
104 100  
78 37.2 30.2 45.2  
103 46.0 37.0 55.6





#71

Bromoform

Concen: 16.110 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

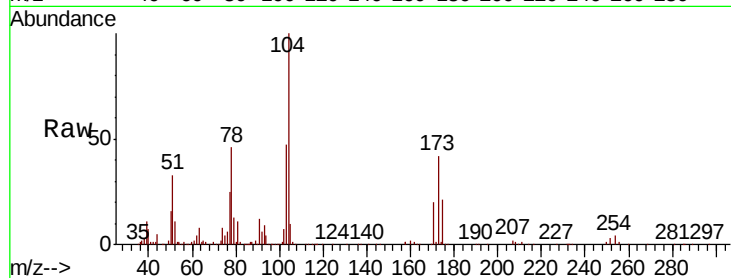
Tot Ion:173 Resp: 48721

Ion Ratio Lower Upper

173 100

175 52.1 24.1 72.3

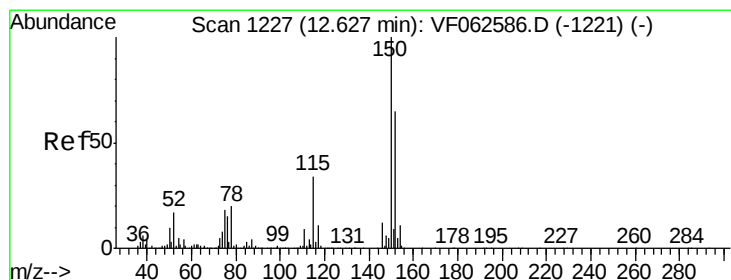
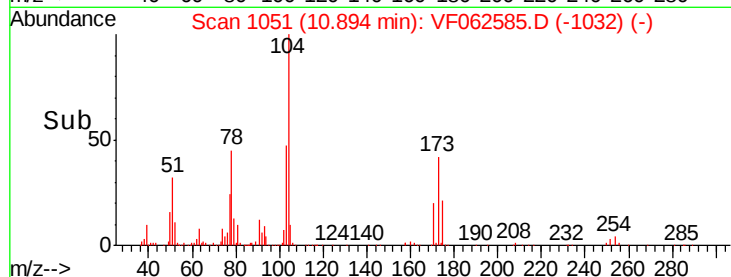
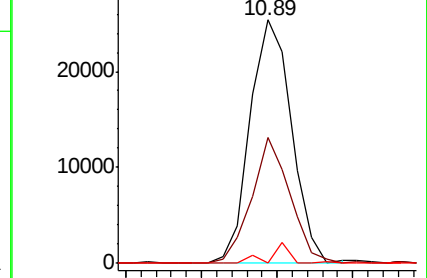
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

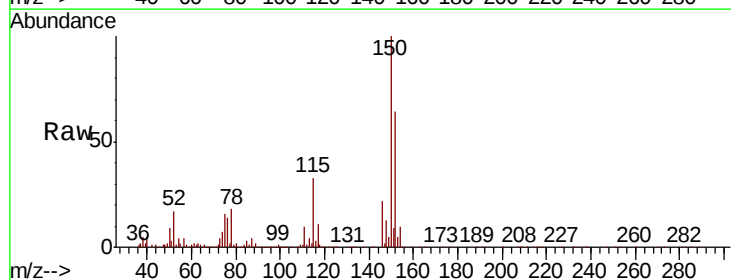
Tgt Ion:152 Resp: 354776

Ion Ratio Lower Upper

152 100

115 51.7 26.2 78.6

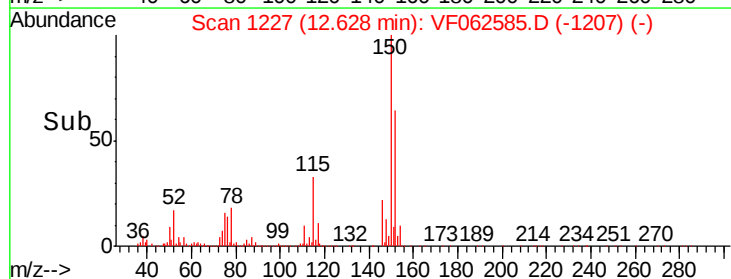
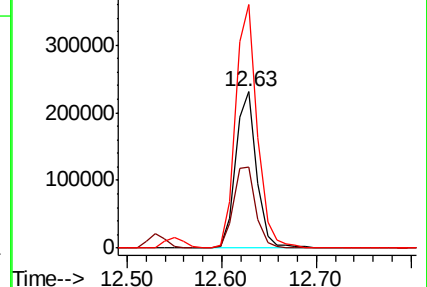
150 156.0 0.0 316.0

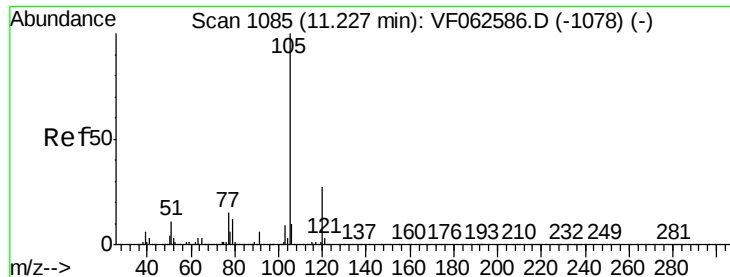


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 18.086 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

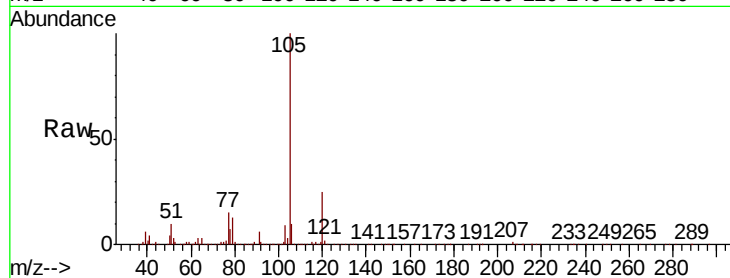
VSTDIC020

Tot Ion:105 Resp: 517934

Ion Ratio Lower Upper

105 100

120 25.1 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

300000

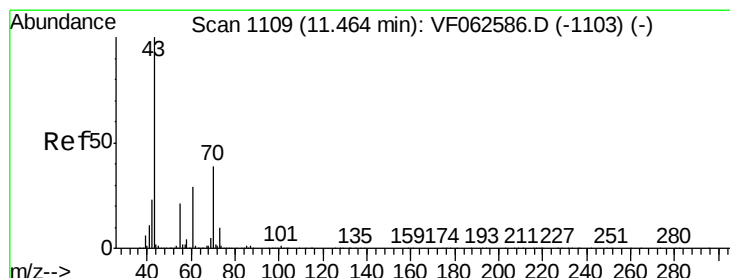
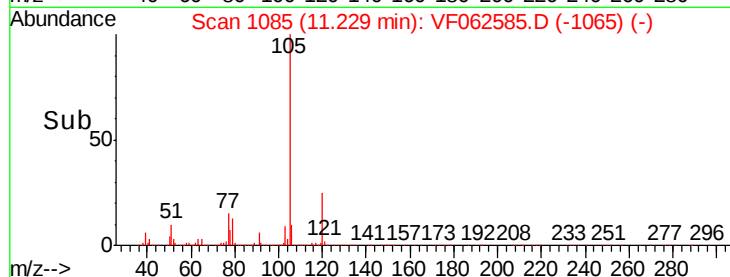
200000

100000

0

11.10 11.20 11.30 11.40

Time-->



#74

N-ethyl acetate

Concen: 16.097 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Tgt Ion: 43 Resp: 123364

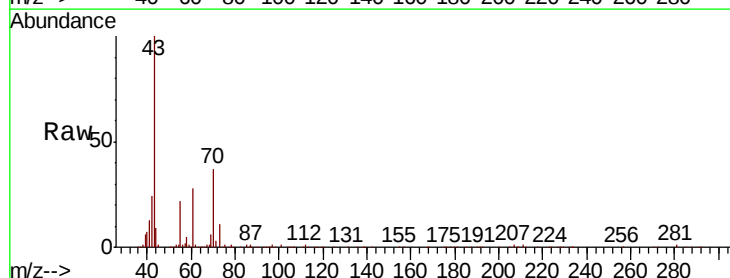
Ion Ratio Lower Upper

43 100

70 36.6 31.0 46.4

55 21.6 16.7 25.1

61 28.4 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

120000

100000

80000

60000

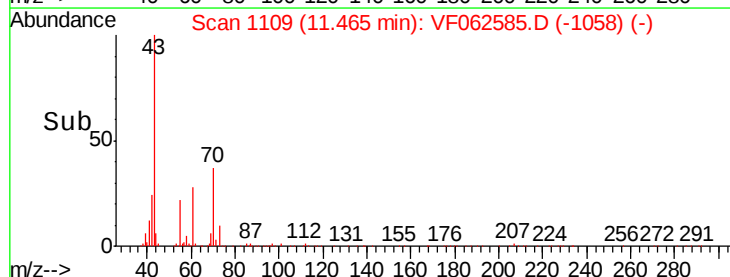
40000

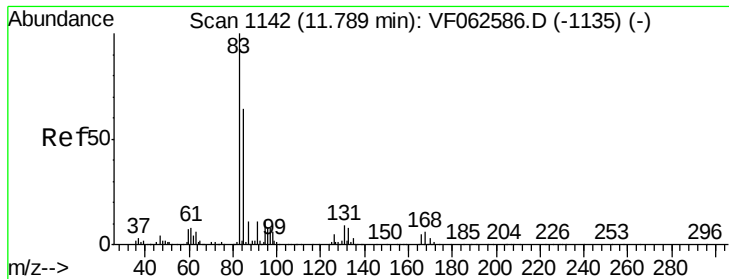
20000

0

11.40 11.50 11.60

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.518 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

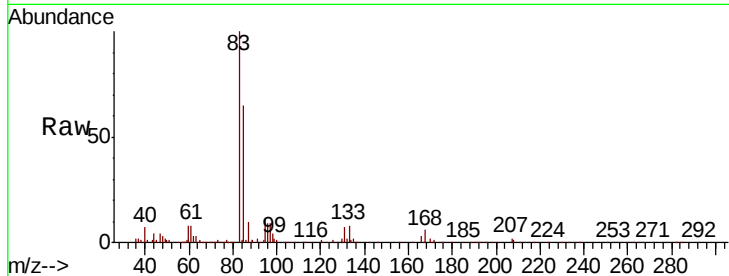
Tot Ion: 83 Resp: 100641

Ion Ratio Lower Upper

83 100

131 6.9 4.6 13.8

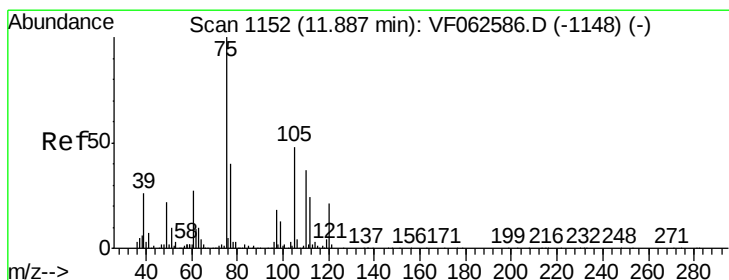
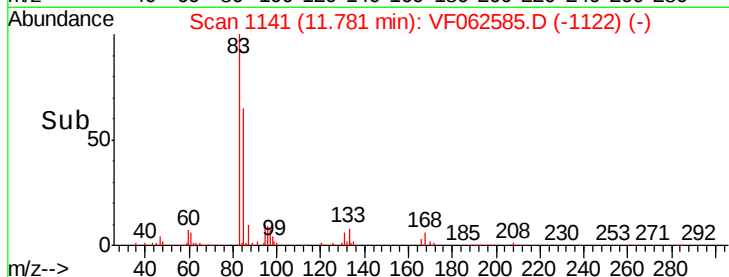
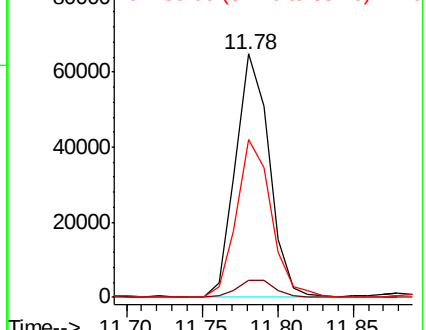
85 65.0 32.1 96.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.059 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.01 min

Lab File: VF062585.D

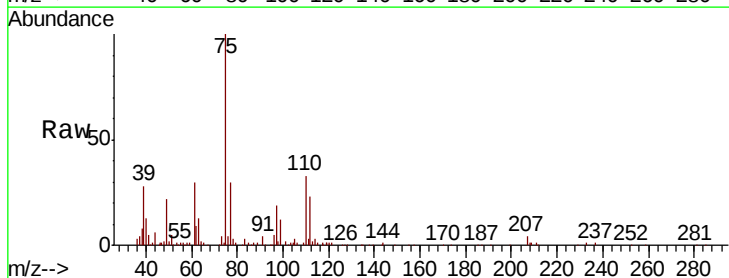
Acq: 14 May 2019 16:23

Tgt Ion: 75 Resp: 66905

Ion Ratio Lower Upper

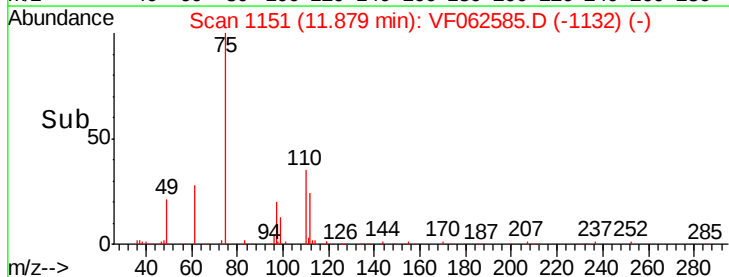
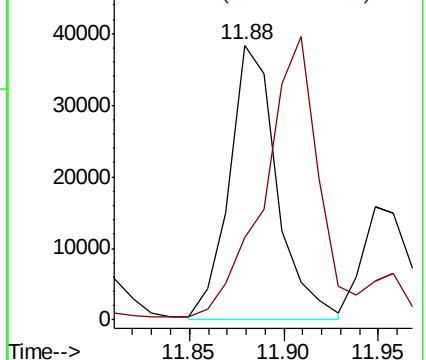
75 100

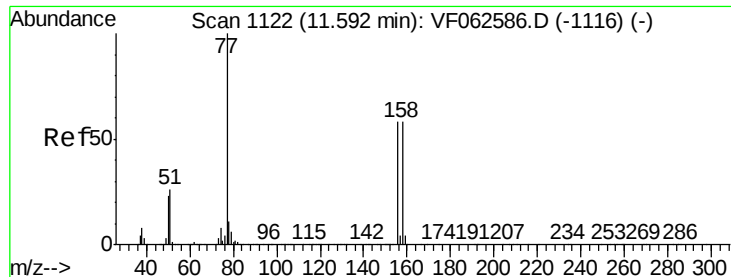
77 29.7 20.4 61.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 19.104 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

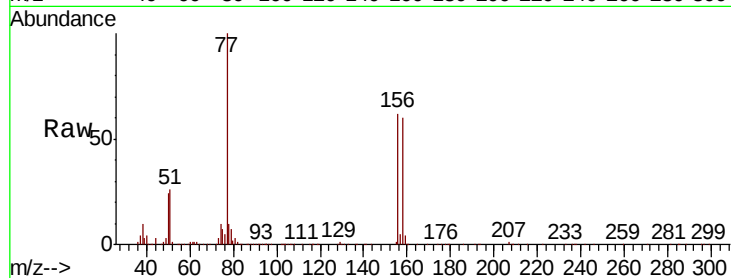
Tot Ion:156 Resp: 115840

Ion Ratio Lower Upper

156 100

77 161.9 86.5 259.5

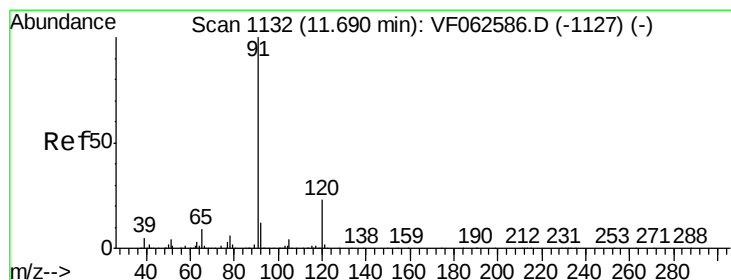
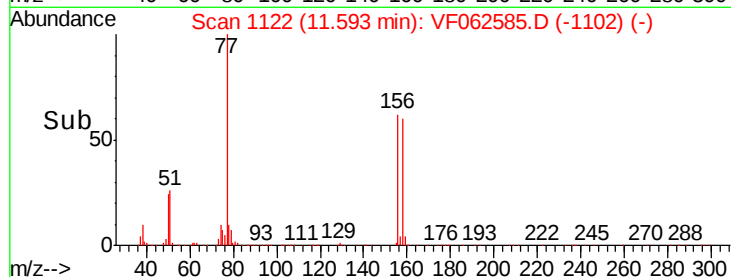
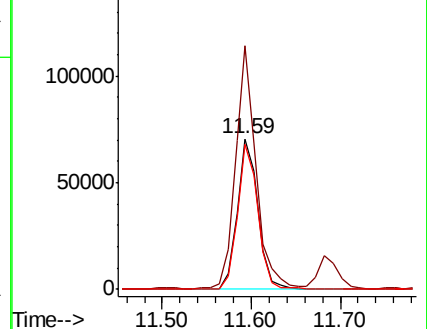
158 96.8 50.3 150.9



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 19.111 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF062585.D

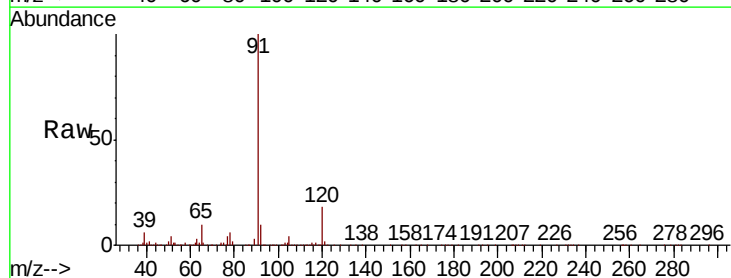
Acq: 14 May 2019 16:23

Tgt Ion: 91 Resp: 636903

Ion Ratio Lower Upper

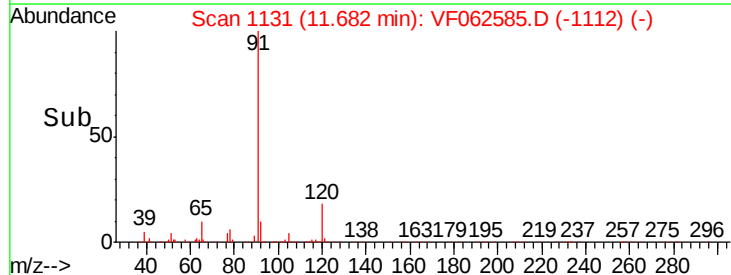
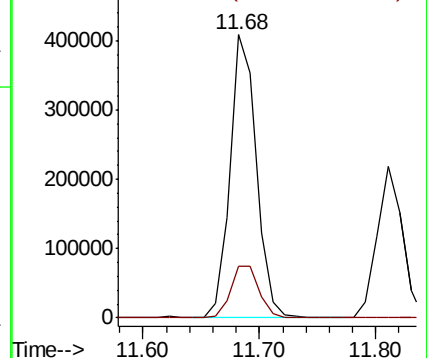
91 100

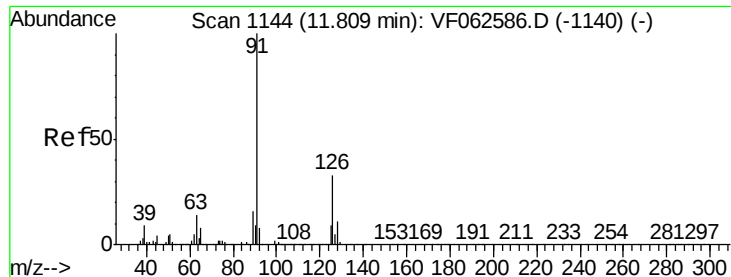
120 18.5 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 17.268 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

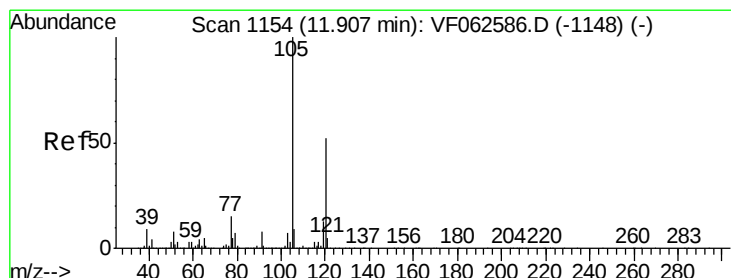
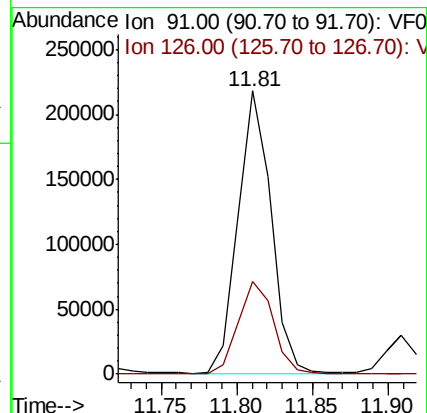
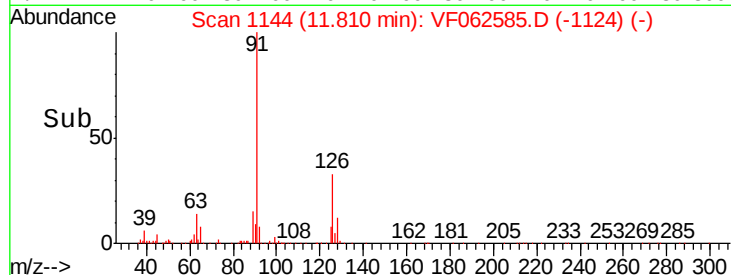
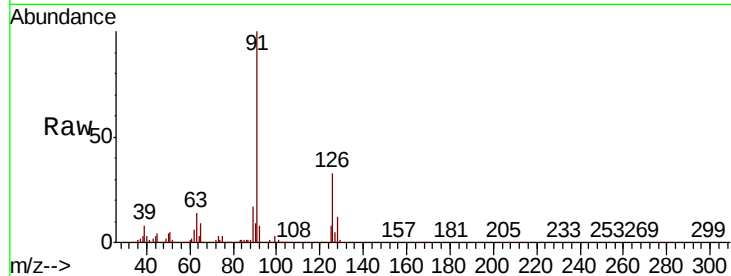
VSTDIC020

Tot Ion: 91 Resp: 328710

Ion Ratio Lower Upper

91 100

126 32.9 16.6 49.8



#80

1,3,5-Trimethylbenzene

Concen: 17.426 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VF062585.D

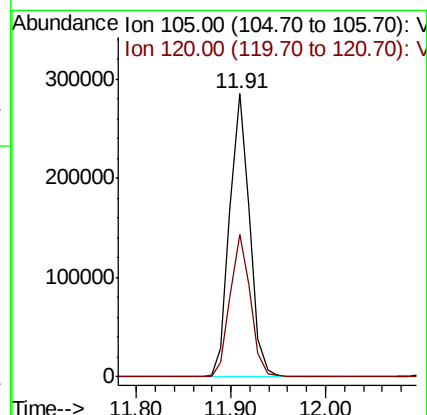
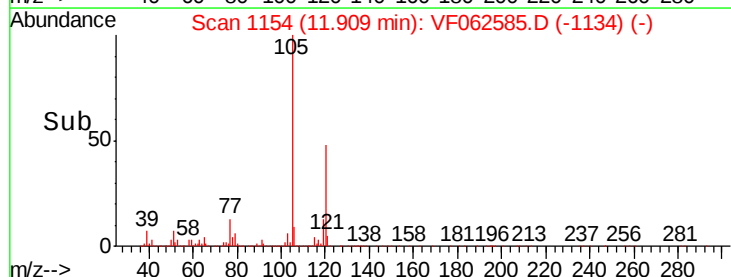
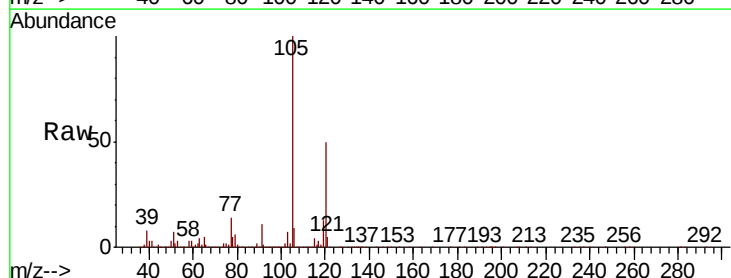
Acq: 14 May 2019 16:23

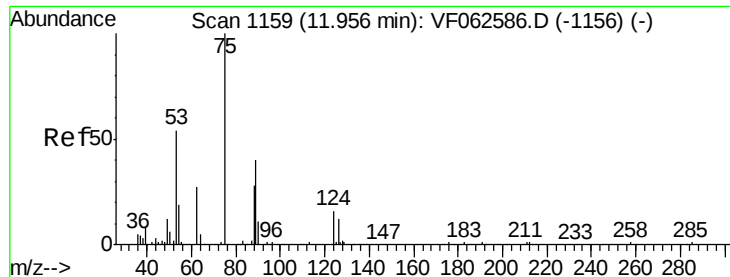
Tgt Ion: 105 Resp: 415854

Ion Ratio Lower Upper

105 100

120 50.5 25.9 77.6





#81

trans-1,4-Dichloro-2-butene

Concen: 26.025 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

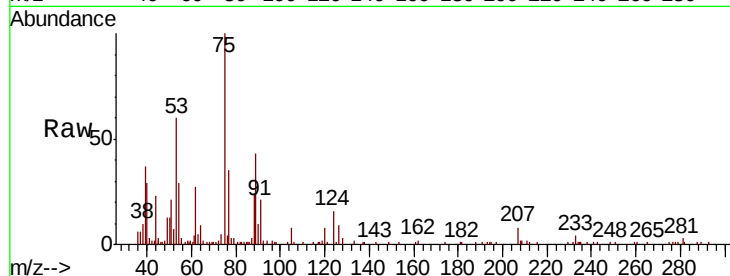
Tot Ion: 75 Resp: 36743

Ion Ratio Lower Upper

75 100

53 60.3 46.6 70.0

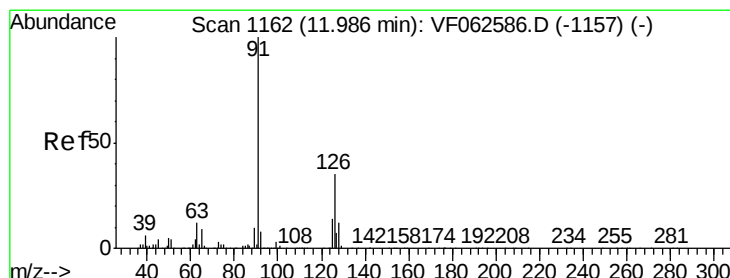
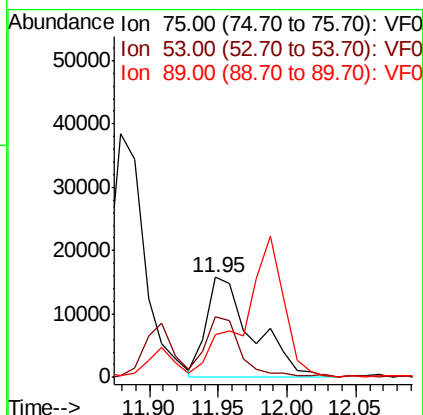
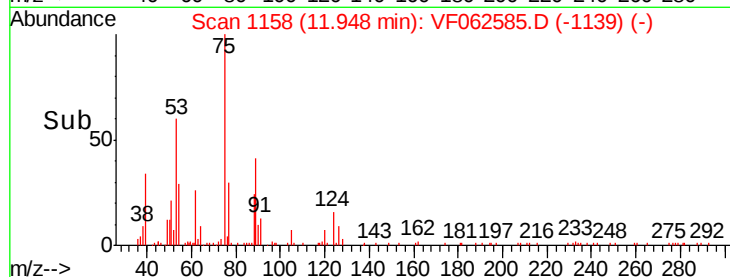
89 42.8 33.8 50.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 17.607 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. 0.00 min

Lab File: VF062585.D

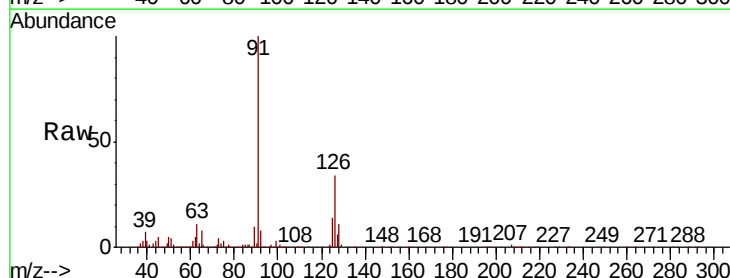
Acq: 14 May 2019 16:23

Tgt Ion: 91 Resp: 338833

Ion Ratio Lower Upper

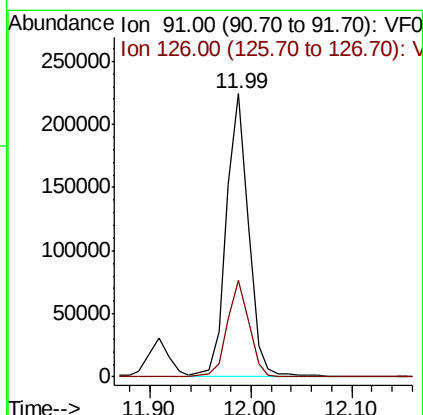
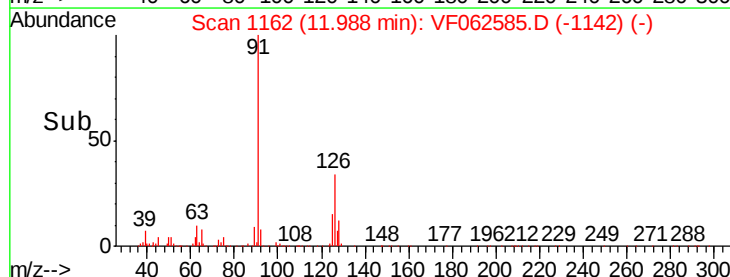
91 100

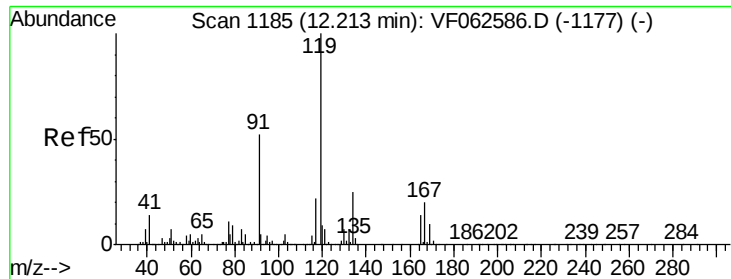
126 34.1 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 17.776 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

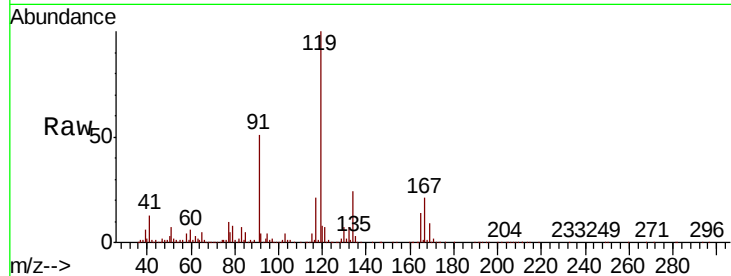
Tot Ion:119 Resp: 429451

Ion Ratio Lower Upper

119 100

91 51.3 26.0 78.0

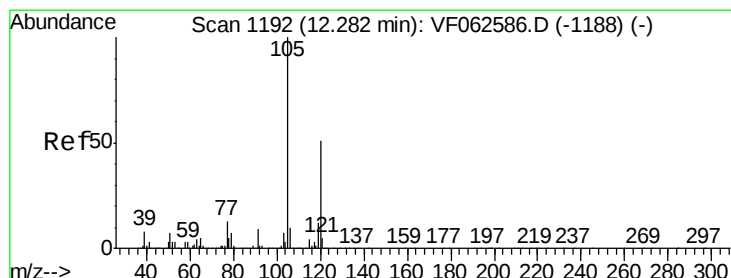
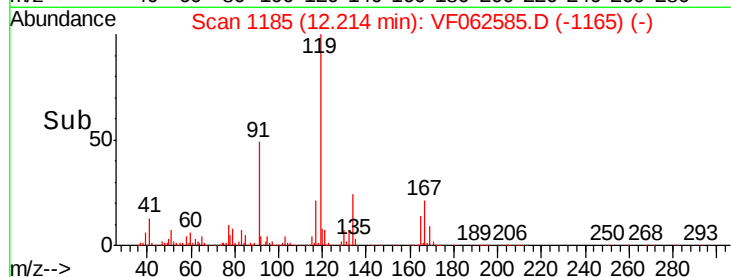
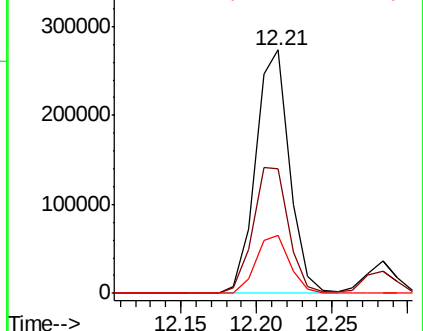
134 24.1 12.6 37.8



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: 16.390 ug/l

RT: 12.28 min Scan# 1192

Delta R.T. 0.00 min

Lab File: VF062585.D

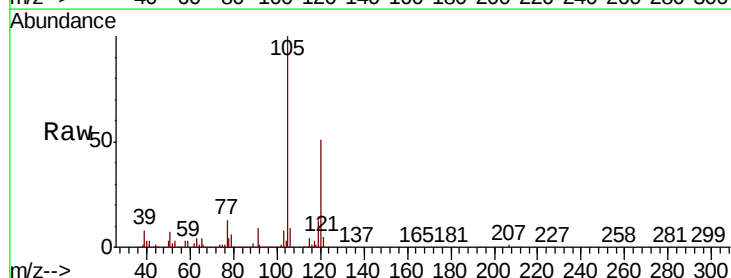
Acq: 14 May 2019 16:23

Tgt Ion:105 Resp: 389589

Ion Ratio Lower Upper

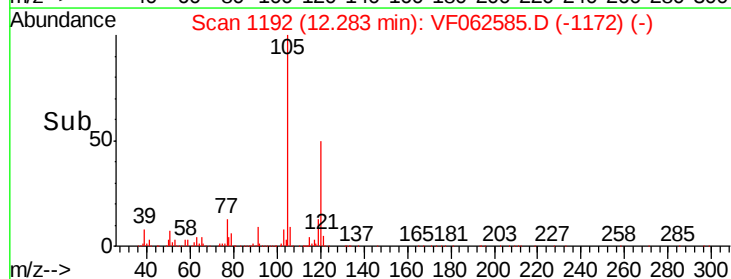
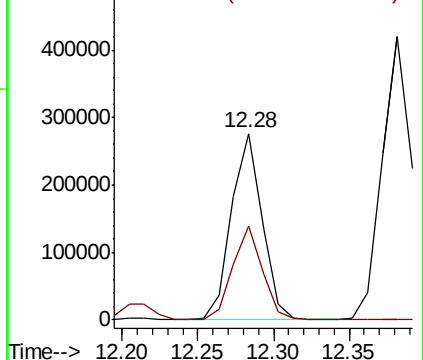
105 100

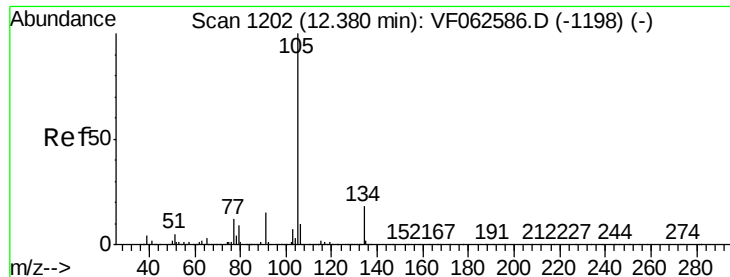
120 50.5 25.4 76.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 19.008 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

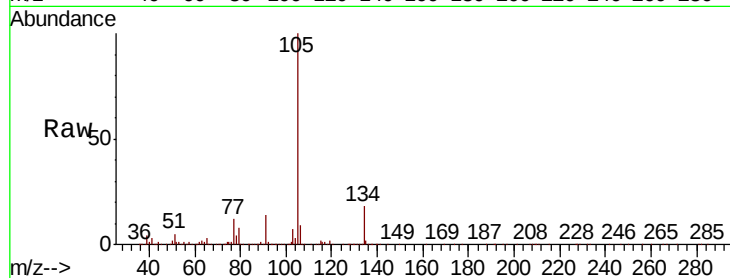
VSTDIC020

Tot Ion:105 Resp: 585053

Ion Ratio Lower Upper

105 100

134 18.3 9.3 27.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.38

400000

300000

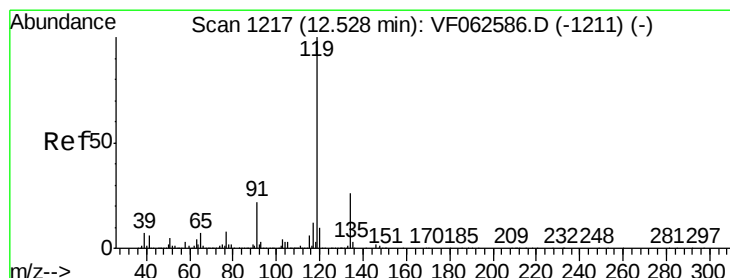
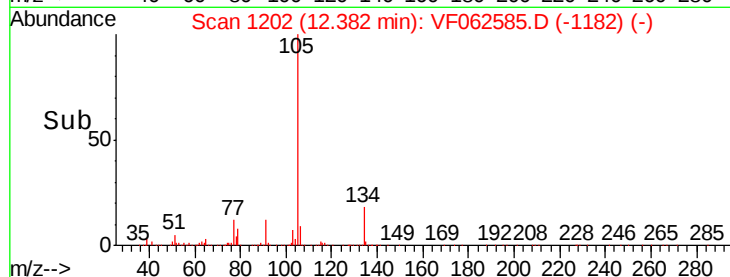
200000

100000

0

Time-->

12.30 12.40 12.50



#86

p-Isopropyltoluene

Concen: 17.913 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

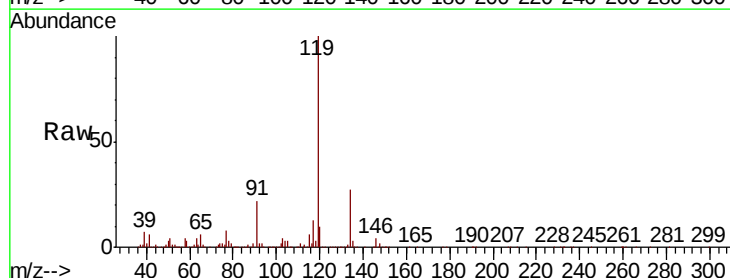
Tgt Ion:119 Resp: 489836

Ion Ratio Lower Upper

119 100

134 26.9 13.0 39.0

91 22.1 10.9 32.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

12.53

400000

300000

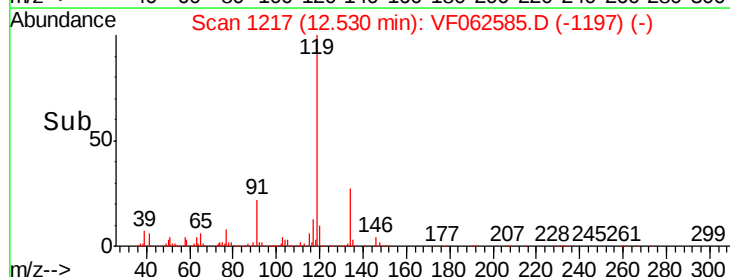
200000

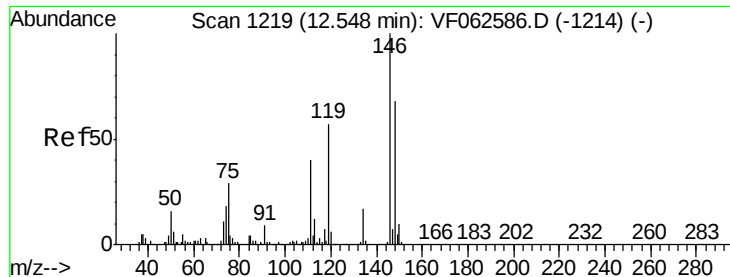
100000

0

Time-->

12.40 12.50 12.60

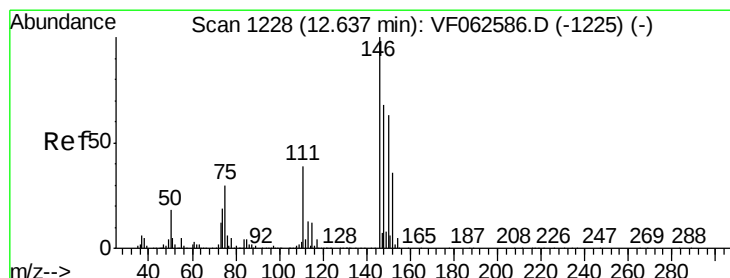
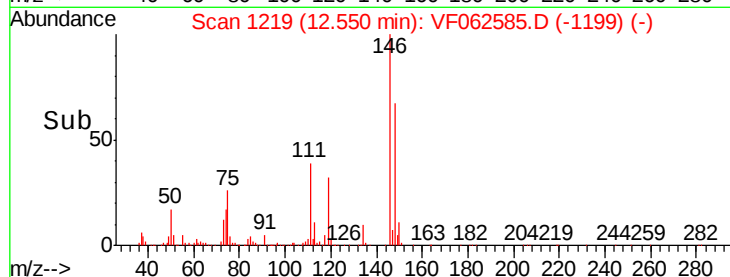
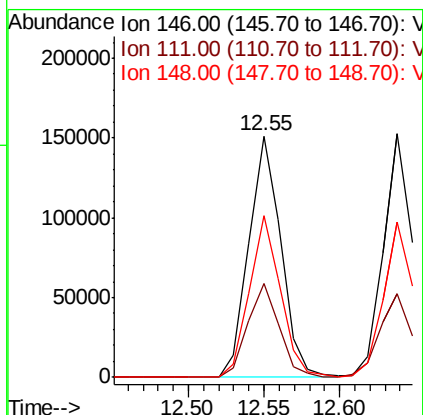
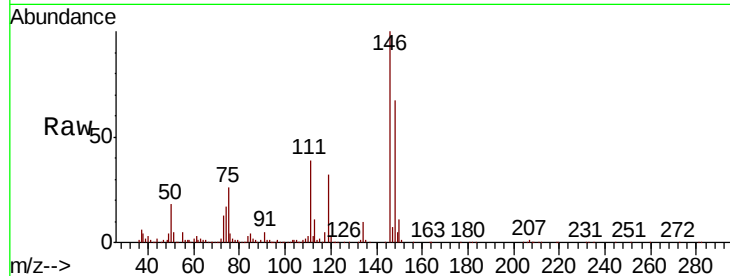




#87  
 1,3-Dichlorobenzene  
 Concen: 19.638 ug/l  
 RT: 12.55 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

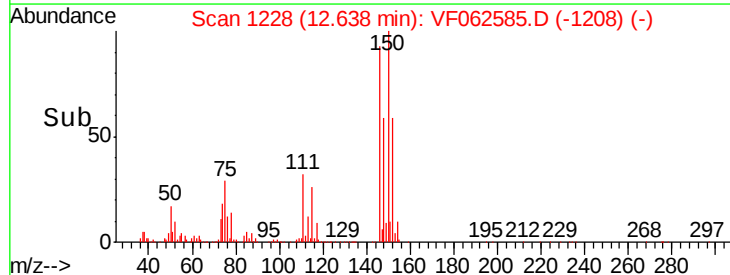
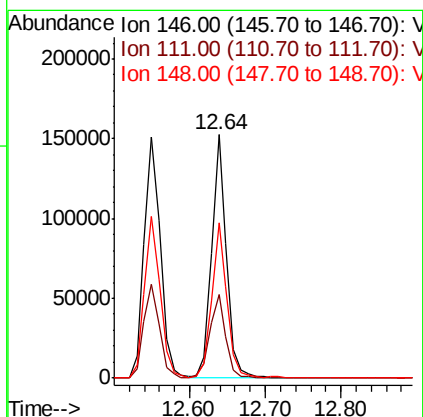
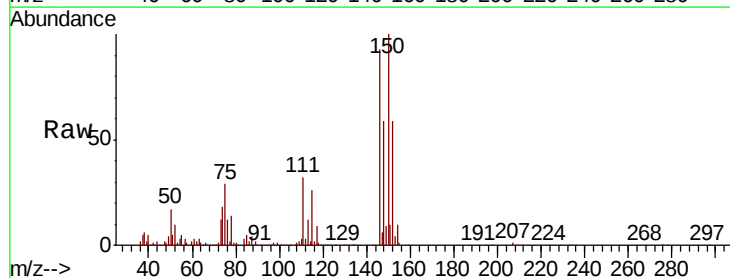
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

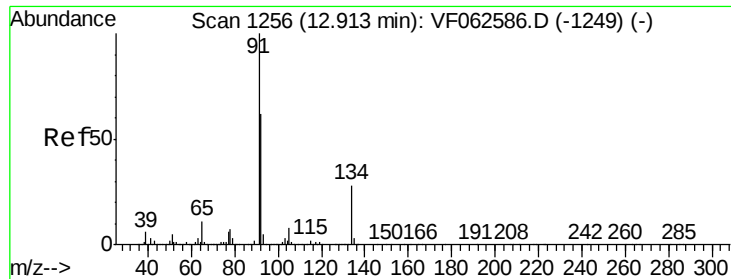
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.1  | 20.1  | 60.2  |
| 148     | 67.0  | 34.0  | 101.8 |



#88  
 1,4-Dichlorobenzene  
 Concen: 18.274 ug/l  
 RT: 12.64 min Scan# 1228  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 34.4  | 19.4  | 58.1  |
| 148     | 63.6  | 34.2  | 102.5 |





#89

n-Butylbenzene

Concen: 19.046 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

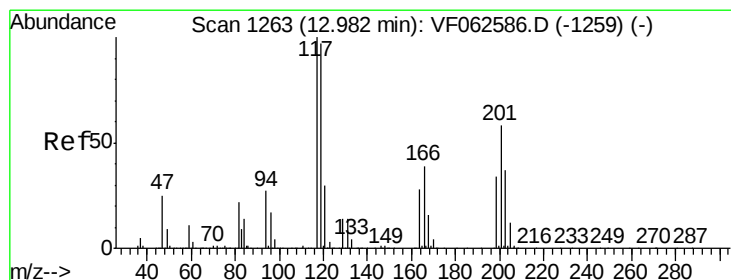
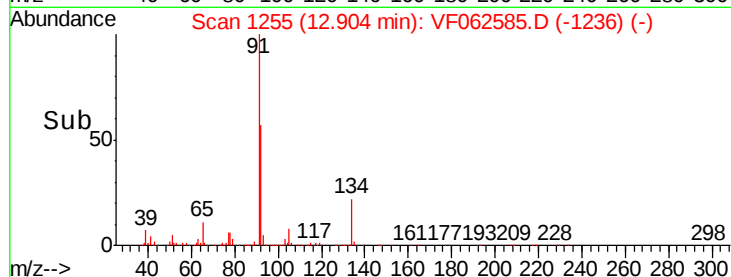
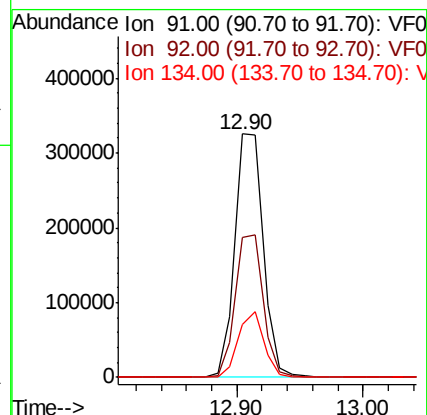
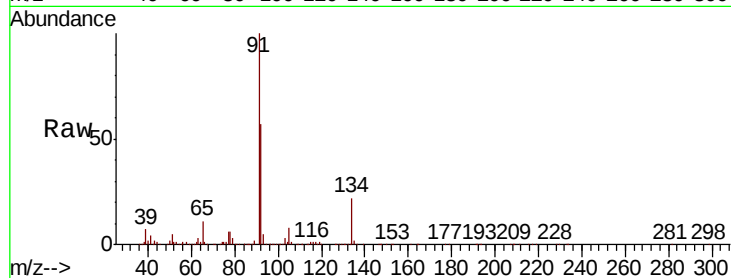
Tot Ion: 91 Resp: 506503

Ion Ratio Lower Upper

91 100

92 57.3 30.9 92.8

134 21.7 13.9 41.6



#90

Hexachloroethane

Concen: 17.732 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VF062585.D

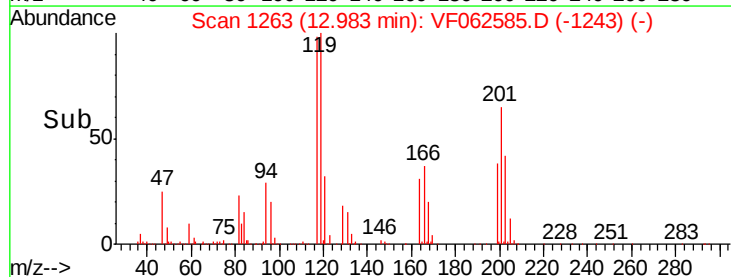
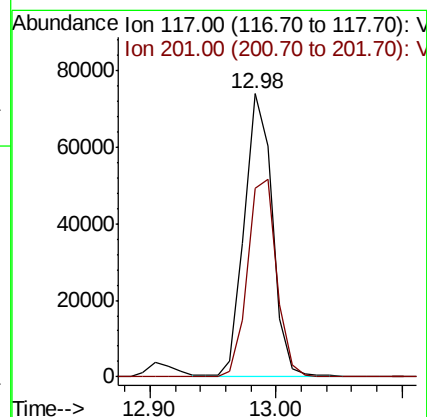
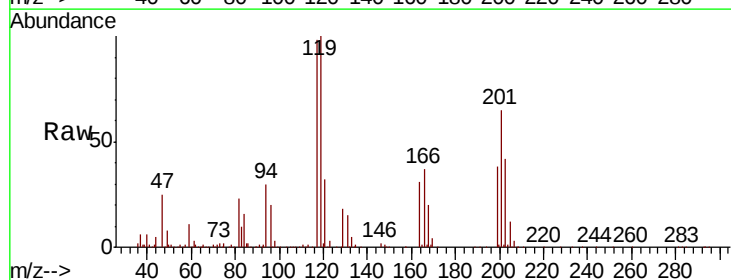
Acq: 14 May 2019 16:23

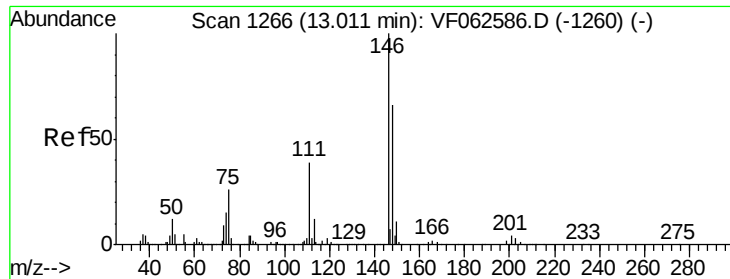
Tgt Ion: 117 Resp: 113907

Ion Ratio Lower Upper

117 100

201 66.6 29.7 89.1

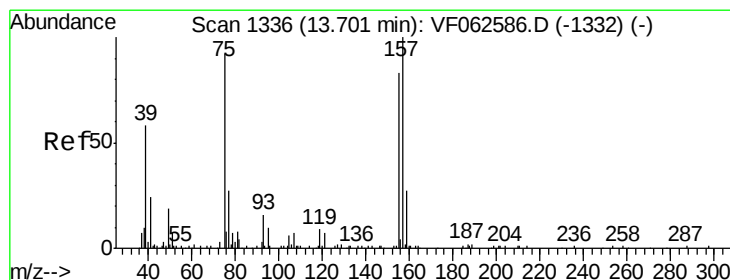
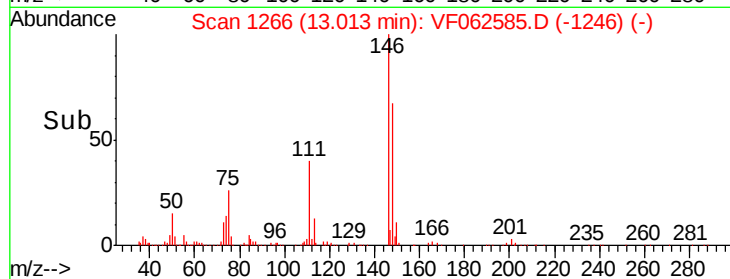
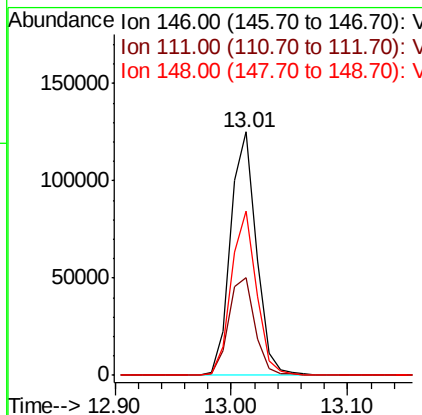
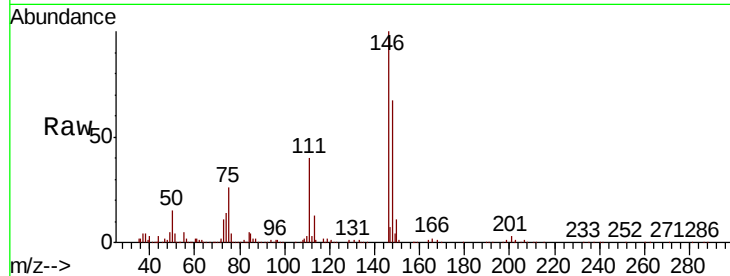




#91  
 1,2-Dichlorobenzene  
 Concen: 17.669 ug/l  
 RT: 13.01 min Scan# 1266  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

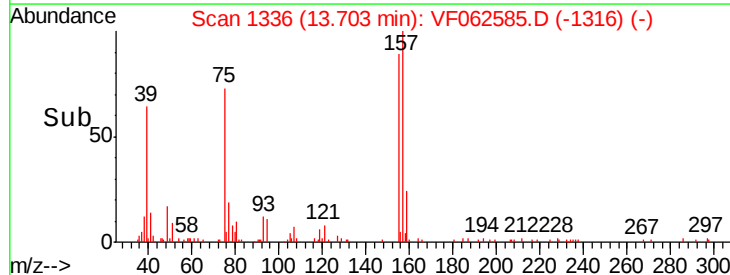
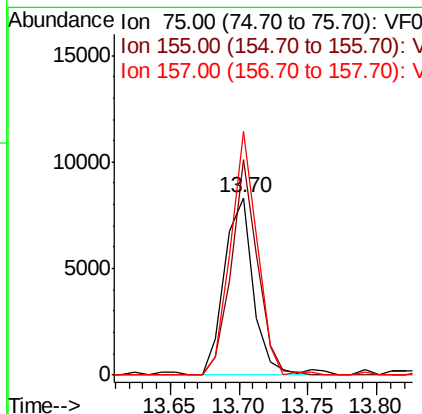
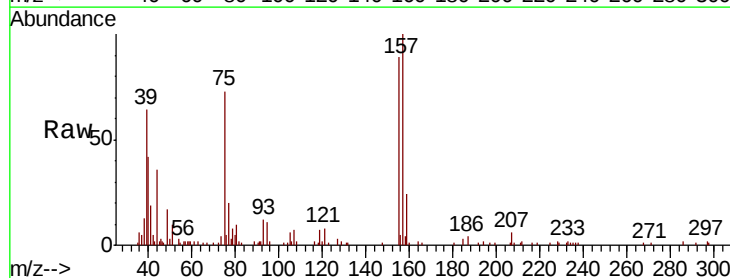
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

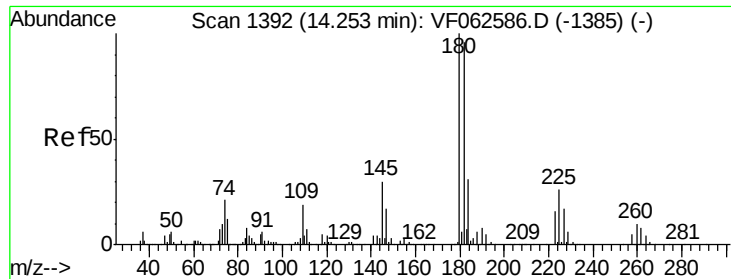
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.1  | 19.4  | 58.2  |
| 148     | 67.2  | 33.1  | 99.5  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 12.669 ug/l  
 RT: 13.70 min Scan# 1336  
 Delta R.T. 0.00 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 121.7 | 44.8  | 134.4 |
| 157     | 137.2 | 54.1  | 162.3 |

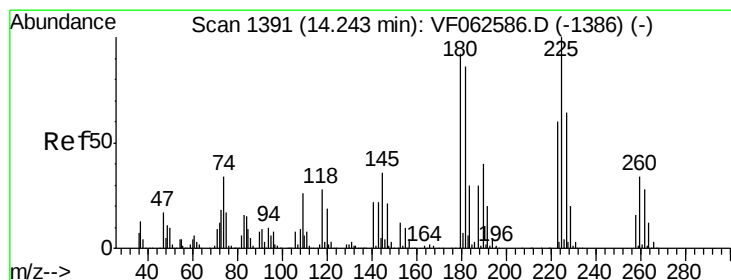
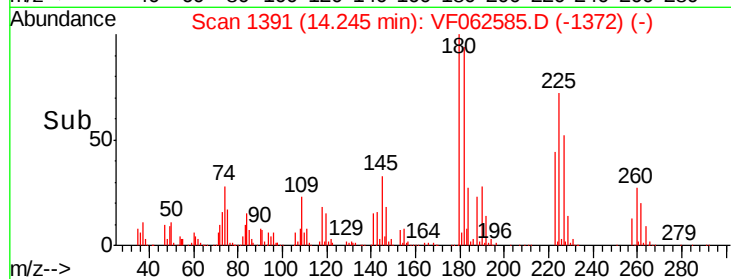
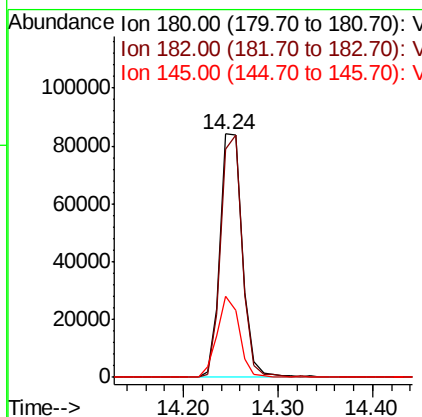
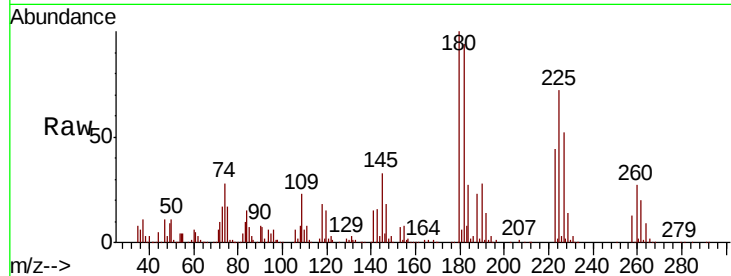




#93  
 1,2,4-Trichlorobenzene  
 Concen: 17.354 ug/l  
 RT: 14.24 min Scan# 1391  
 Delta R.T. -0.01 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

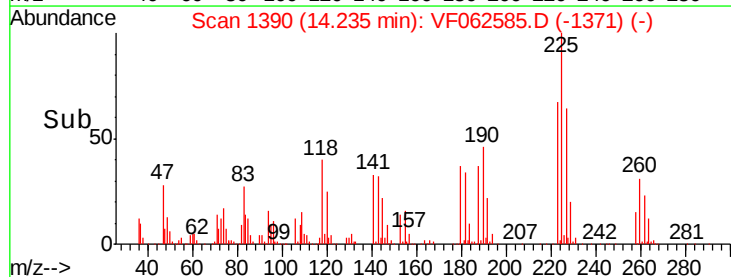
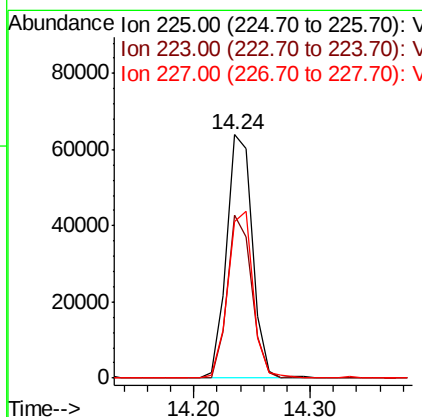
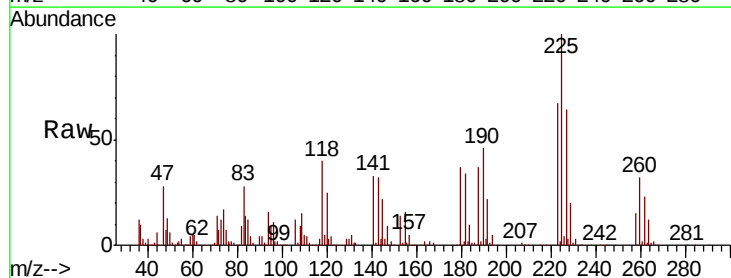
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

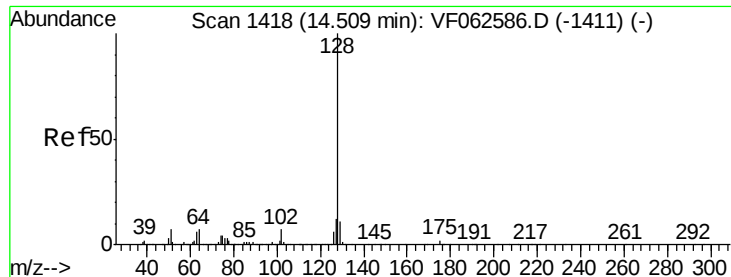
Tot Ion:180 Resp: 137661  
 Ion Ratio Lower Upper  
 180 100  
 182 93.6 47.9 143.8  
 145 33.2 14.8 44.4



#94  
 Hexachlorobutadiene  
 Concen: 19.117 ug/l  
 RT: 14.24 min Scan# 1390  
 Delta R.T. -0.01 min  
 Lab File: VF062585.D  
 Acq: 14 May 2019 16:23

Tgt Ion:225 Resp: 98427  
 Ion Ratio Lower Upper  
 225 100  
 223 66.9 29.9 89.7  
 227 64.1 31.9 95.9





#95

Naphthalene

Concen: 16.289 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

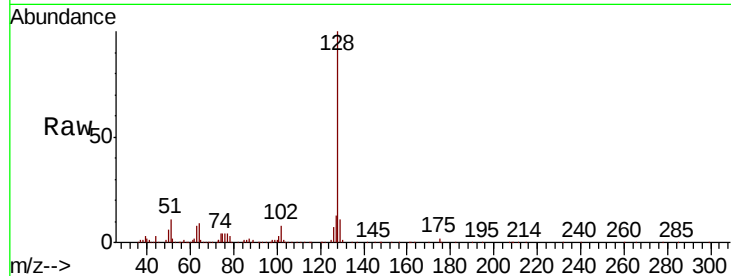
Tot Ion:128 Resp: 211741

Ion Ratio Lower Upper

128 100

127 12.6 9.5 14.3

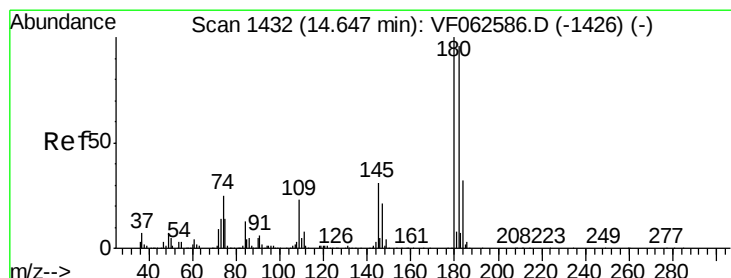
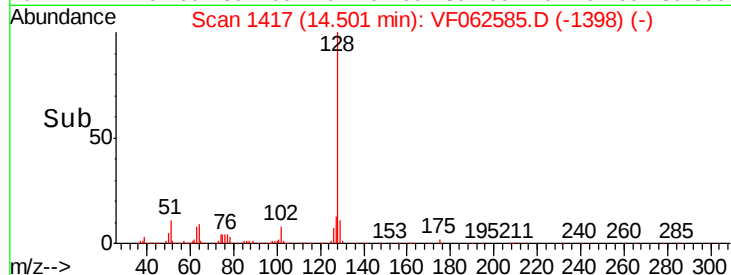
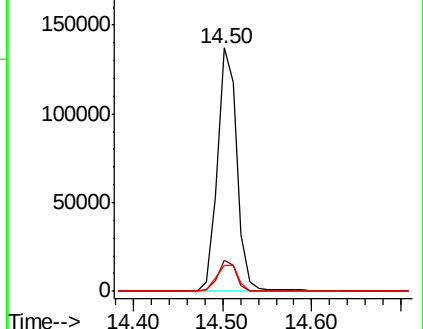
129 10.6 8.6 13.0



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: 18.472 ug/l

RT: 14.65 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VF062585.D

Acq: 14 May 2019 16:23

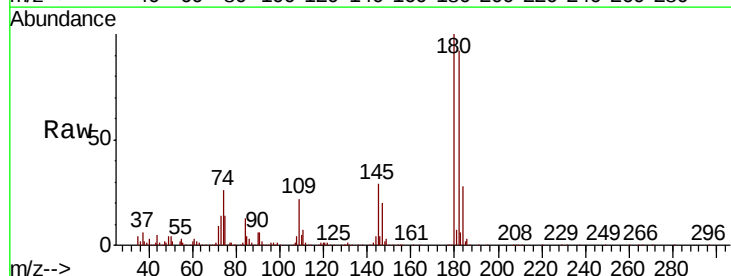
Tgt Ion:180 Resp: 127837

Ion Ratio Lower Upper

180 100

182 92.5 48.1 144.3

145 29.2 15.6 46.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

