

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF122818\  
 Data File : VF061244.D  
 Acq On : 28 Dec 2018 19:10  
 Operator : VA/AP  
 Sample : VSTDCCC050EC  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Dec 29 00:58:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 00:56:59 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.89  | 168  | 241398   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 5.62  | 114  | 384086   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 9.79  | 117  | 360580   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 164366   | 50.00 | ug/l  | 0.02     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 4.87   | 65  | 133476   | 42.99 | ug/l    | 0.03 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 85.98%  |      |
| 35) Dibromofluoromethane  | 4.13   | 113 | 149711   | 48.66 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.32%  |      |
| 50) Toluene-d8            | 7.57   | 98  | 440154   | 50.48 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.96% |      |
| 62) 4-Bromofluorobenzene  | 11.42  | 95  | 190617   | 47.42 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.84%  |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.97 | 85  | 202303 | 37.700  | ug/l   | 99     |
| 3) Chloromethane              | 1.11 | 50  | 154388 | 50.227  | ug/l   | 97     |
| 4) Vinyl Chloride             | 1.15 | 62  | 136665 | 47.928  | ug/l   | 89     |
| 5) Bromomethane               | 1.36 | 94  | 94639  | 47.851  | ug/l   | 99     |
| 6) Chloroethane               | 1.40 | 64  | 64043  | 48.743  | ug/l   | 88     |
| 7) Trichlorofluoromethane     | 1.49 | 101 | 147569 | 27.104  | ug/l   | 96     |
| 8) Diethyl Ether              | 1.64 | 74  | 37597  | 50.428  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.85 | 101 | 119873 | 42.464  | ug/l   | 93     |
| 10) Methyl Iodide             | 1.92 | 142 | 170257 | 38.262  | ug/l   | 90     |
| 11) Tert butyl alcohol        | 2.59 | 59  | 26556  | 211.955 | ug/l   | 94     |
| 12) 1,1-Dichloroethene        | 1.81 | 96  | 97660  | 45.895  | ug/l   | 88     |
| 13) Acrolein                  | 2.01 | 56  | 32969  | 364.159 | ug/l   | 95     |
| 14) Allyl chloride            | 2.11 | 41  | 107574 | 48.578  | ug/l   | 87     |
| 15) Acrylonitrile             | 2.96 | 53  | 80405  | 277.525 | ug/l   | 96     |
| 16) Acetone                   | 2.25 | 43  | 103092 | 166.095 | ug/l # | 86     |
| 17) Carbon Disulfide          | 1.85 | 76  | 199252 | 30.985  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.36 | 43  | 59543  | 46.368  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 2.44 | 73  | 199790 | 42.299  | ug/l   | 95     |
| 20) Methylene Chloride        | 2.20 | 84  | 26917  | 9.975   | ug/l   | 85     |
| 21) trans-1,2-Dichloroethene  | 2.32 | 96  | 69896  | 30.711  | ug/l   | 88     |
| 22) Diisopropyl ether         | 2.82 | 45  | 376528 | 51.045  | ug/l   | 92     |
| 23) Vinyl Acetate             | 3.20 | 43  | 833044 | 244.805 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 2.89 | 63  | 217103 | 49.675  | ug/l   | 96     |
| 25) 2-Butanone                | 4.36 | 43  | 234520 | 232.976 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 3.62 | 77  | 111792 | 44.572  | ug/l   | 92     |
| 27) cis-1,2-Dichloroethene    | 3.49 | 96  | 172101 | 49.394  | ug/l   | 90     |
| 28) Bromochloromethane        | 3.73 | 49  | 116389 | 52.485  | ug/l   | 87     |
| 29) Tetrahydrofuran           | 4.09 | 42  | 101847 | 248.584 | ug/l   | 97     |
| 30) Chloroform                | 3.88 | 83  | 287115 | 43.813  | ug/l   | 99     |
| 31) Cyclohexane               | 3.71 | 56  | 133368 | 29.408  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 4.12 | 97  | 155525 | 39.595  | ug/l   | 92     |
| 36) 1,1-Dichloropropene       | 4.30 | 75  | 224093 | 48.336  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.14 | 43  | 94789  | 53.161  | ug/l # | 84     |
| 38) Carbon Tetrachloride      | 4.01 | 117 | 154916 | 43.878  | ug/l   | 90     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 00:56:59 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.47  | 83   | 203201   | 48.855  | ug/l   | 99       |
| 40) Benzene                    | 4.65  | 78   | 514688   | 51.623  | ug/l   | 96       |
| 41) Methacrylonitrile          | 4.77  | 41   | 49300    | 50.352  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 4.96  | 62   | 168218   | 44.414  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.98  | 43   | 122637   | 54.783  | ug/l # | 97       |
| 44) Trichloroethene            | 5.52  | 130  | 155860   | 49.584  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 6.26  | 63   | 142541   | 52.549  | ug/l   | 99       |
| 46) Dibromomethane             | 6.10  | 93   | 86948    | 49.421  | ug/l   | 95       |
| 47) Bromodichloromethane       | 6.41  | 83   | 220720   | 48.285  | ug/l   | 97       |
| 48) Methyl methacrylate        | 6.73  | 41   | 81006    | 51.835  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.73  | 88   | 10774    | 950.137 | ug/l # | 75       |
| 51) 4-Methyl-2-Pentanone       | 8.27  | 43   | 402359   | 262.077 | ug/l   | 99       |
| 52) Toluene                    | 7.64  | 92   | 339354   | 51.419  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.29  | 75   | 173696   | 47.103  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 7.31  | 75   | 236370   | 51.071  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 8.51  | 97   | 103104   | 52.112  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.64  | 69   | 115509   | 53.954  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 8.87  | 76   | 185594   | 51.866  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 7.31  | 63   | 86948    | 211.464 | ug/l # | 90       |
| 59) 2-Hexanone                 | 9.50  | 43   | 286244   | 257.815 | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.74  | 129  | 137282   | 48.405  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 9.00  | 107  | 109733   | 51.932  | ug/l   | 98       |
| 64) Tetrachloroethene          | 8.17  | 164  | 135877   | 48.986  | ug/l   | 97       |
| 65) Chlorobenzene              | 9.81  | 112  | 364004   | 48.866  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.95  | 131  | 142157   | 46.699  | ug/l   | 98       |
| 67) Ethyl Benzene              | 9.92  | 91   | 674334   | 49.690  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.15 | 106  | 470088   | 98.429  | ug/l   | 95       |
| 69) o-Xylene                   | 10.73 | 106  | 260954   | 49.266  | ug/l   | 89       |
| 70) Styrene                    | 10.81 | 104  | 356299   | 55.766  | ug/l   | 96       |
| 71) Bromoform                  | 10.79 | 173  | 67355    | 47.825  | ug/l   | 100      |
| 73) Isopropylbenzene           | 11.14 | 105  | 719195   | 50.775  | ug/l   | 100      |
| 74) N-amyl acetate             | 11.38 | 43   | 183172   | 58.248  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.70 | 83   | 123104   | 52.367  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 11.80 | 75   | 88629    | 50.661  | ug/l   | 96       |
| 77) Bromobenzene               | 11.51 | 156  | 153669   | 50.398  | ug/l   | 95       |
| 78) n-propylbenzene            | 11.61 | 91   | 847636   | 52.529  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.73 | 91   | 487536   | 50.175  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.83 | 105  | 564013   | 48.358  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.88 | 75   | 54943    | 73.086  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 11.91 | 91   | 489876   | 48.736  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.14 | 119  | 569985   | 47.492  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 12.22 | 105  | 569917   | 49.001  | ug/l   | 96       |
| 85) sec-Butylbenzene           | 12.32 | 105  | 799020   | 51.015  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.47 | 119  | 632746   | 48.671  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.48 | 146  | 280437   | 57.124  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.57 | 146  | 218838   | 39.086  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.86 | 91   | 645406   | 48.892  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.93 | 117  | 164522   | 51.222  | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene        | 12.96 | 146  | 269633   | 49.465  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.66 | 75   | 20821    | 48.266  | ug/l   | 87       |

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Sample : VSTDCCC050EC  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

Quant Time: Dec 29 00:58:55 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 20 00:56:59 2018  
Response via : Initial Calibration

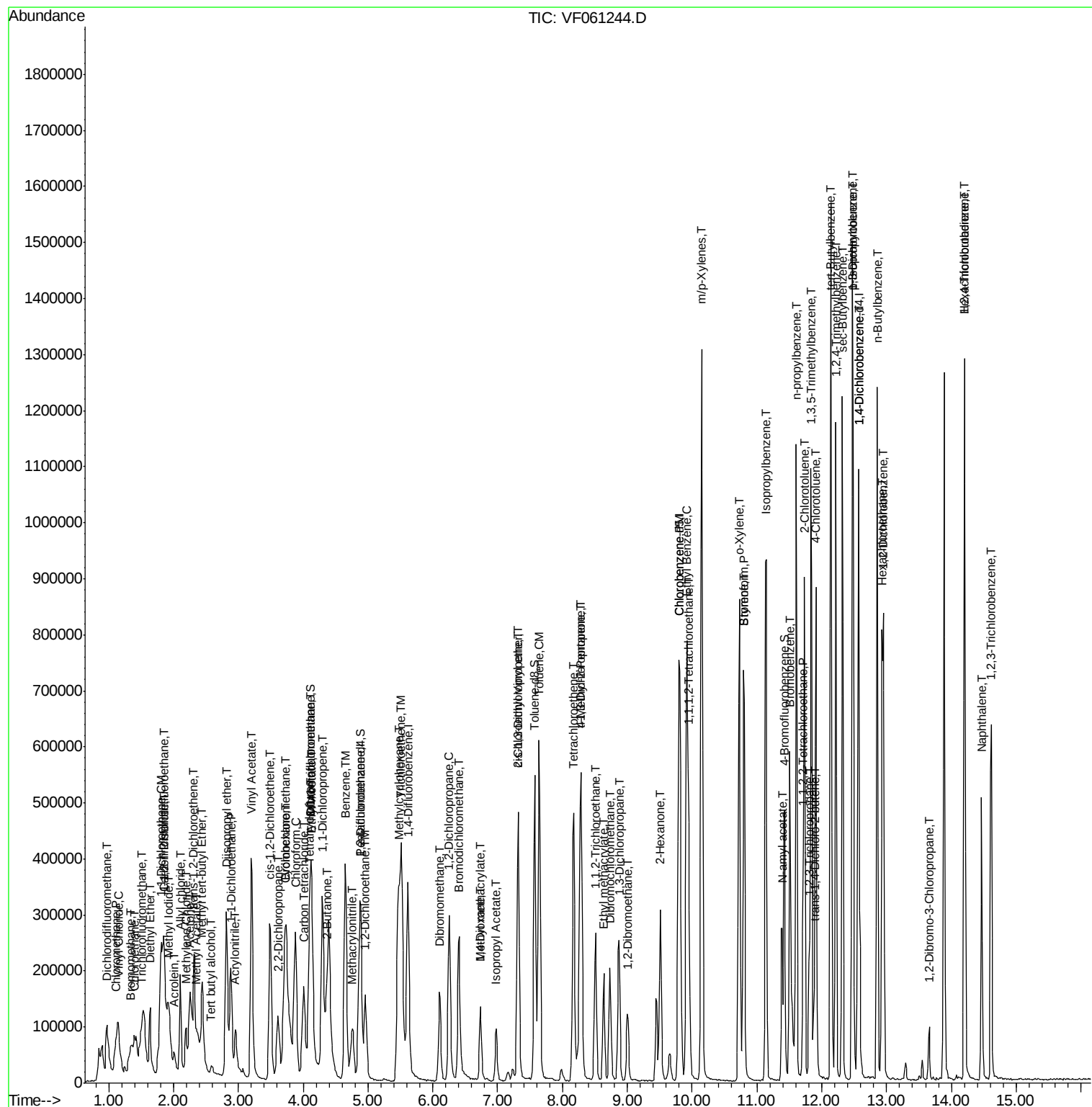
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.21 | 180  | 187543   | 48.513 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.20 | 225  | 121510   | 49.351 | ug/l  | 95       |
| 95) Naphthalene            | 14.47 | 128  | 338830   | 47.999 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.61 | 180  | 178780   | 50.026 | ug/l  | 96       |

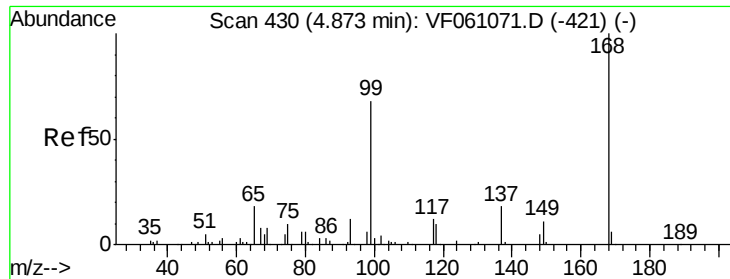
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

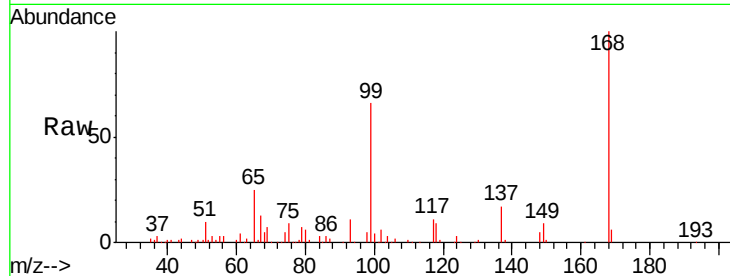
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

Tgt Ion:168 Resp: 241398

Ion Ratio Lower Upper

168 100

99 65.6 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

80000

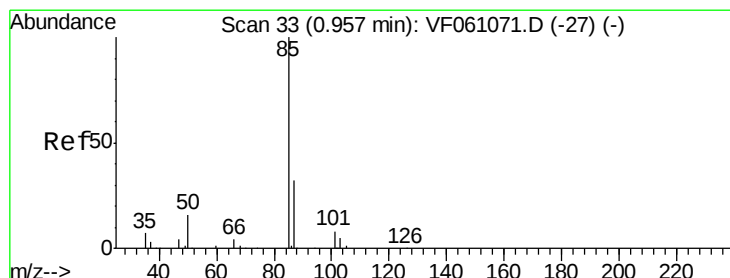
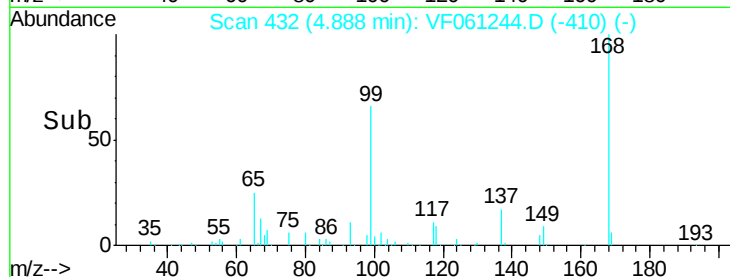
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 37.700 ug/l

RT: 0.97 min Scan# 35

Delta R.T. 0.02 min

Lab File: VF061244.D

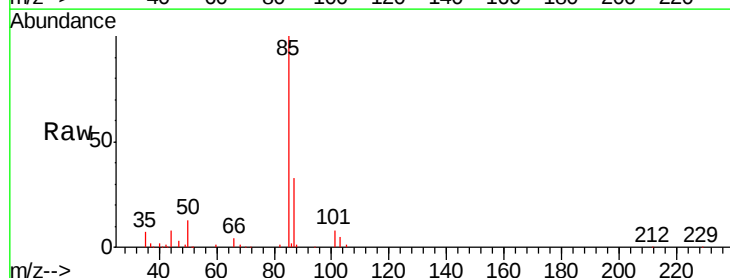
Acq: 28 Dec 2018 19:10

Tgt Ion: 85 Resp: 202303

Ion Ratio Lower Upper

85 100

87 32.5 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

60000

50000

40000

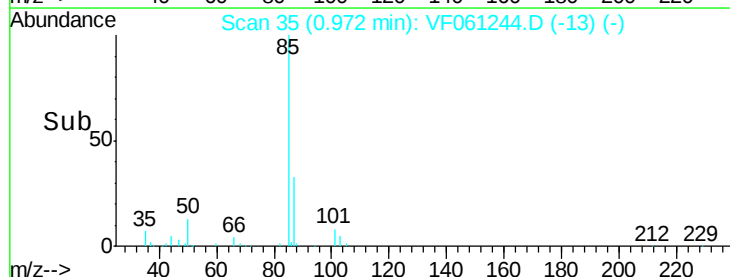
30000

20000

10000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 50.227 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

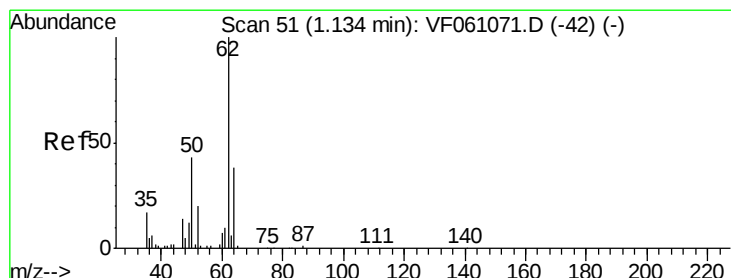
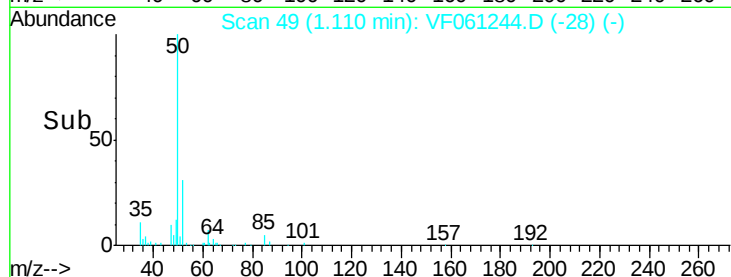
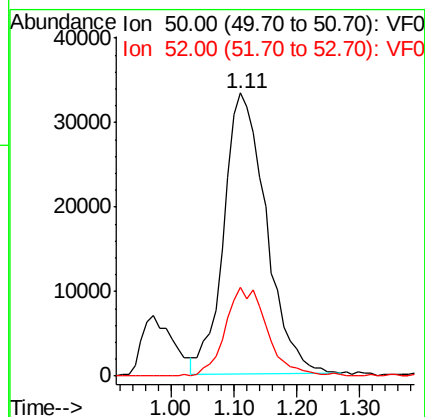
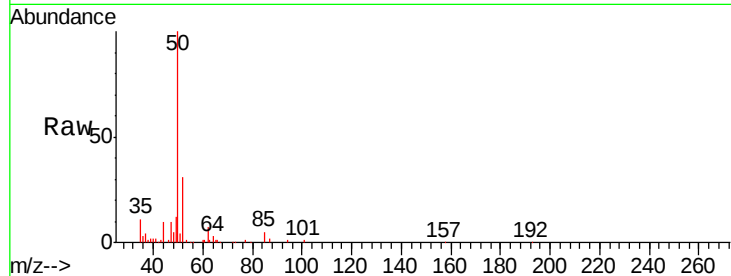
VSTDCCC050EC

Tgt Ion: 50 Resp: 154388

Ion Ratio Lower Upper

50 100

52 31.4 26.3 39.5



#4

Vinyl Chloride

Concen: 47.928 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.02 min

Lab File: VF061244.D

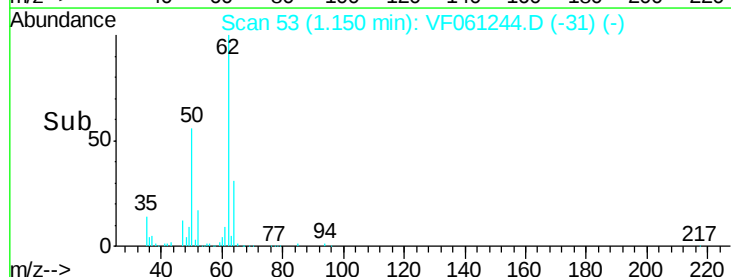
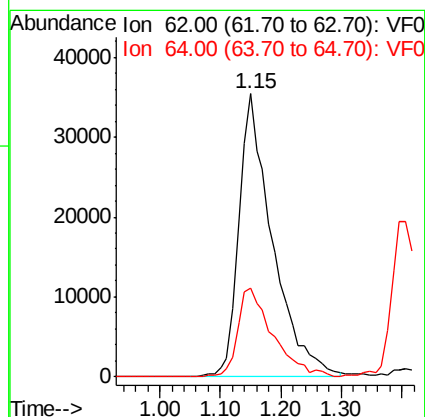
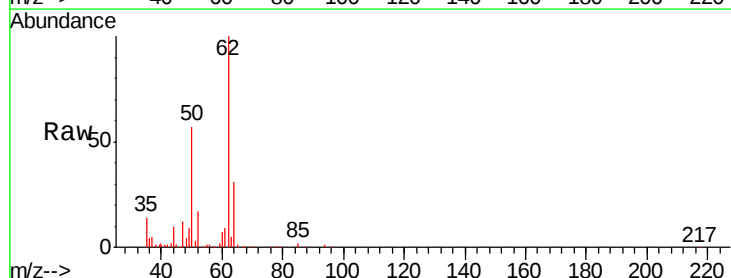
Acq: 28 Dec 2018 19:10

Tgt Ion: 62 Resp: 136665

Ion Ratio Lower Upper

62 100

64 31.4 30.4 45.6





#5

Bromomethane

Concen: 47.851 ug/l

RT: 1.36 min Scan# 74

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

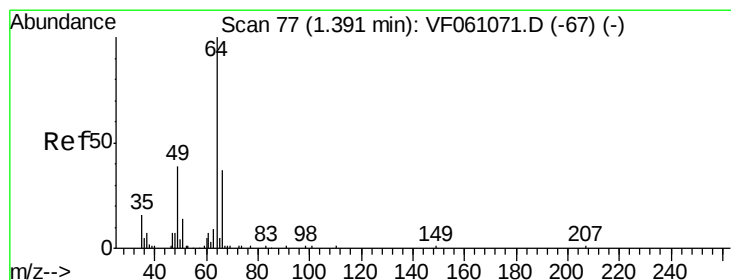
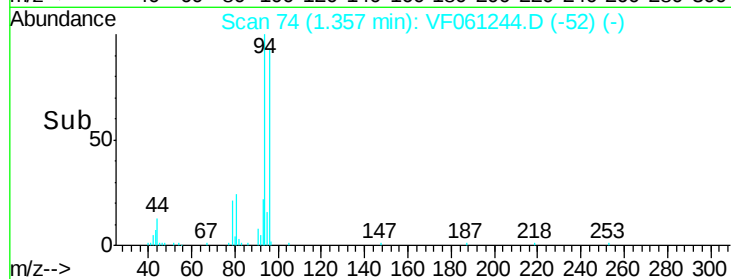
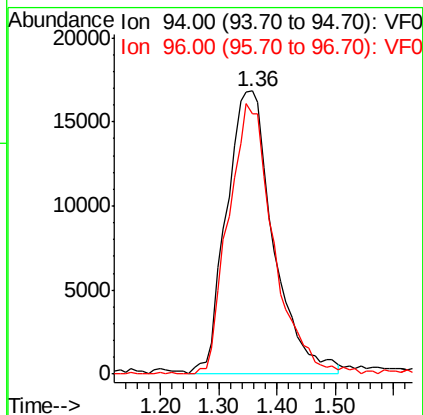
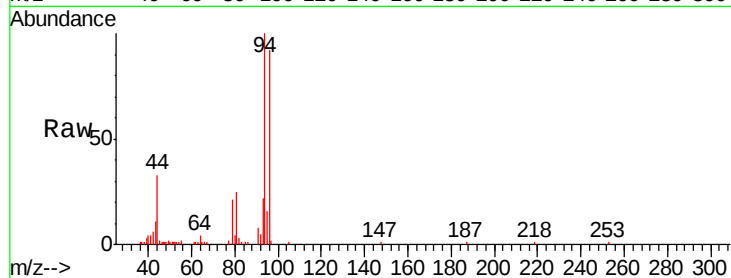
VSTDCCC050EC

Tgt Ion: 94 Resp: 94639

Ion Ratio Lower Upper

94 100

96 91.9 74.4 111.6



#6

Chloroethane

Concen: 48.743 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.01 min

Lab File: VF061244.D

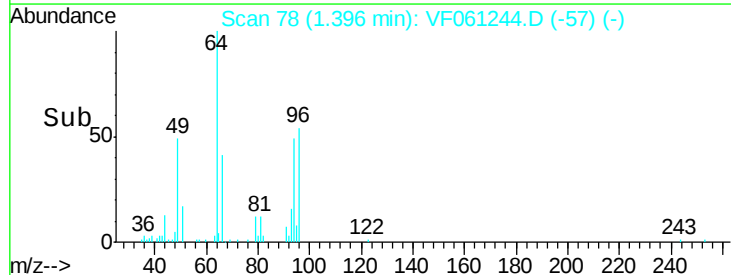
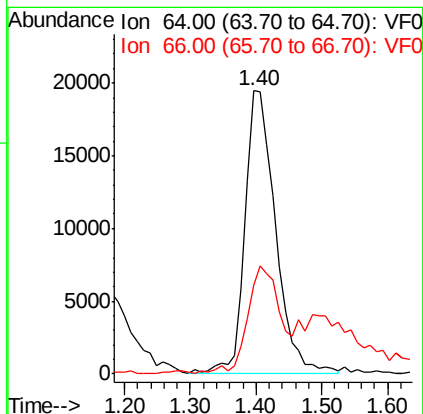
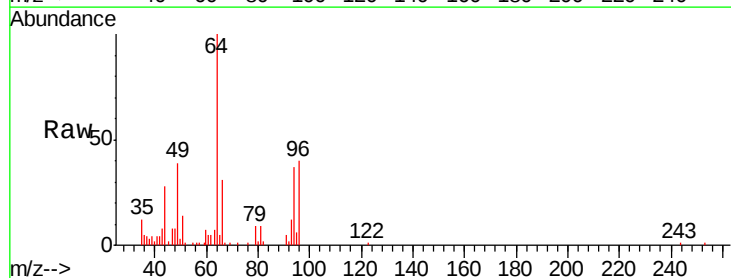
Acq: 28 Dec 2018 19:10

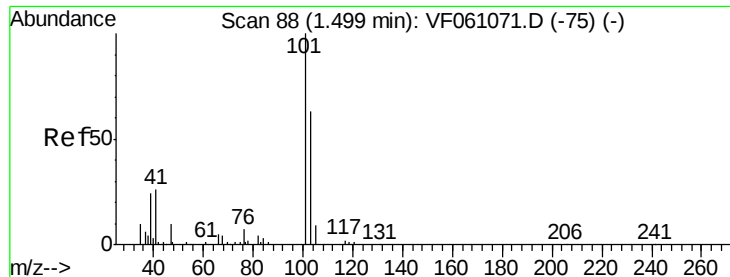
Tgt Ion: 64 Resp: 64043

Ion Ratio Lower Upper

64 100

66 31.4 30.9 46.3





#7

Trichlorofluoromethane

Concen: 27.104 ug/l

RT: 1.49 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

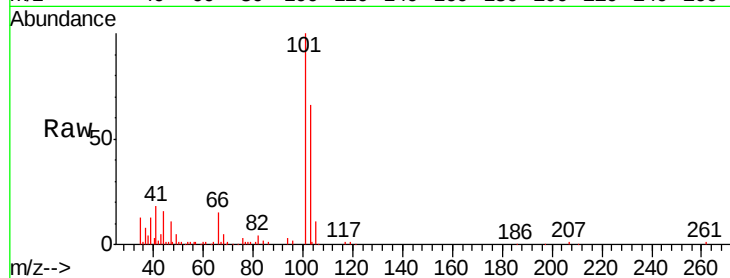
VSTDCCC050EC

Tgt Ion:101 Resp: 147569

Ion Ratio Lower Upper

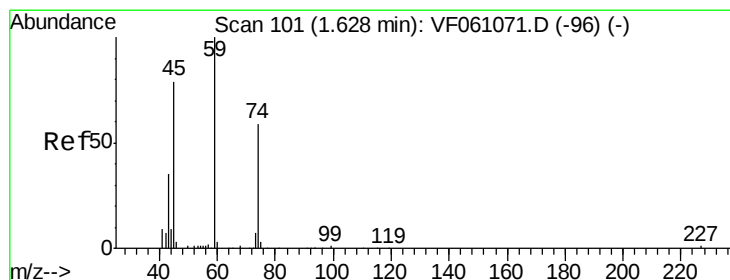
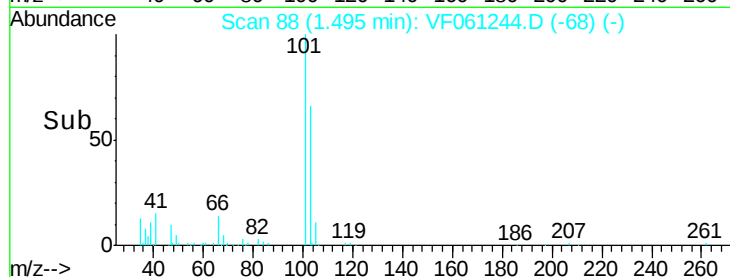
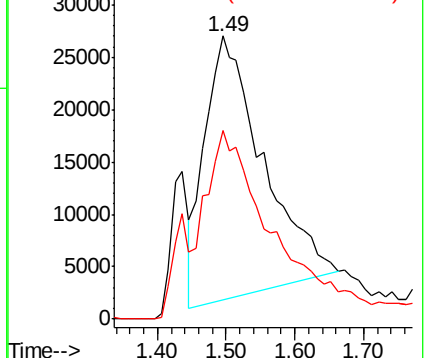
101 100

103 66.5 50.7 76.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 50.428 ug/l

RT: 1.64 min Scan# 103

Delta R.T. 0.02 min

Lab File: VF061244.D

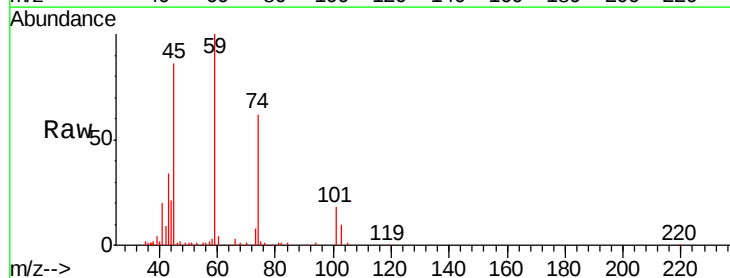
Acq: 28 Dec 2018 19:10

Tgt Ion: 74 Resp: 37597

Ion Ratio Lower Upper

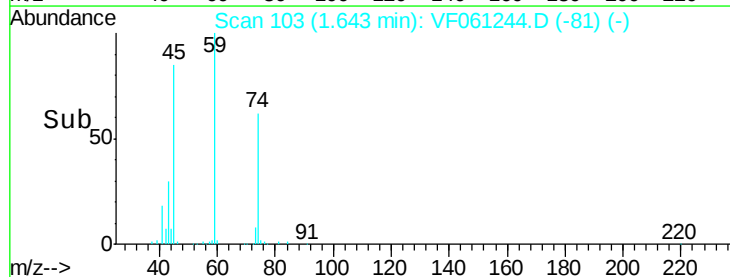
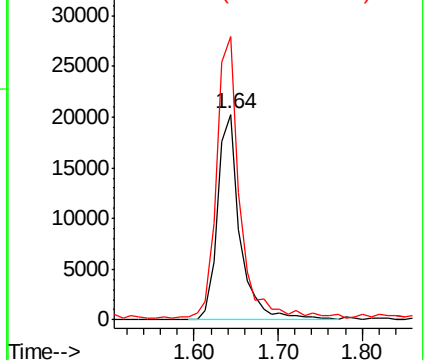
74 100

45 137.8 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 42.464 ug/l

RT: 1.85 min Scan# 124

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

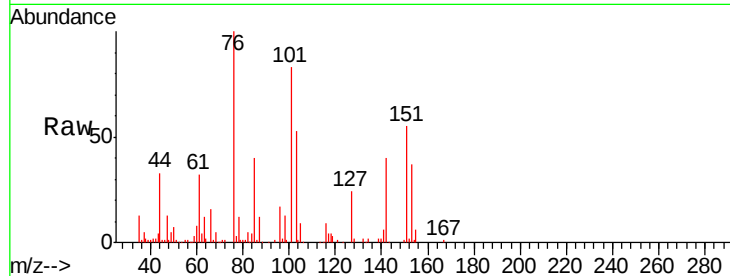
Tgt Ion:101 Resp: 119873

Ion Ratio Lower Upper

101 100

85 48.5 44.5 66.7

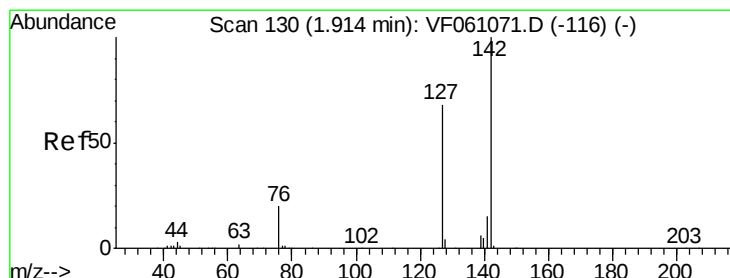
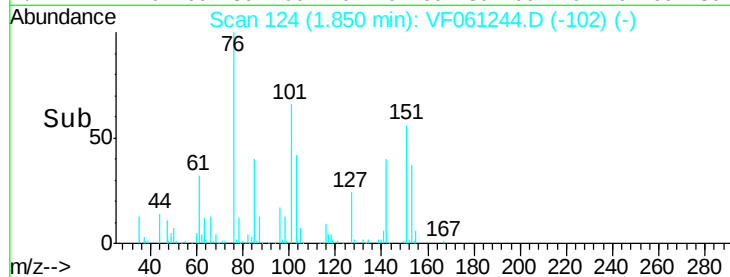
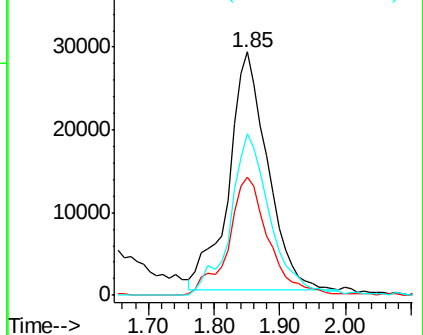
151 66.5 49.9 74.9



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: 38.262 ug/l

RT: 1.92 min Scan# 131

Delta R.T. 0.01 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

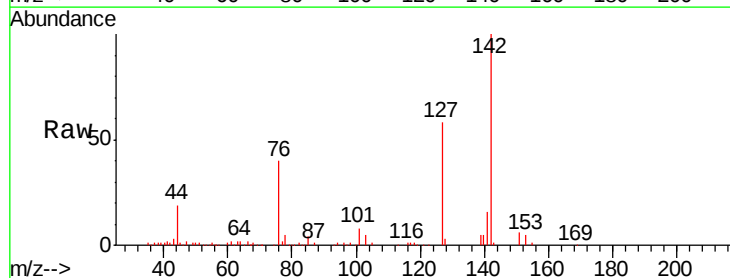
Tgt Ion:142 Resp: 170257

Ion Ratio Lower Upper

142 100

127 58.5 54.7 82.1

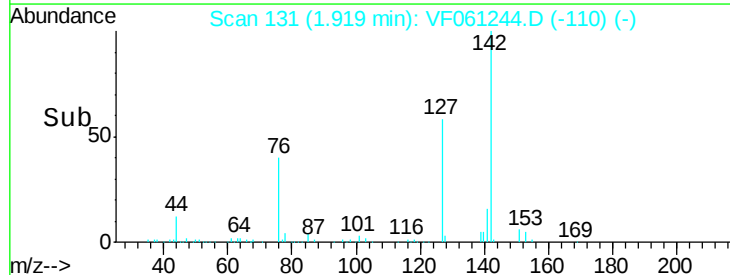
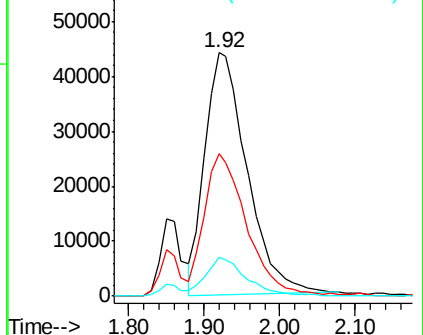
141 15.7 12.2 18.2

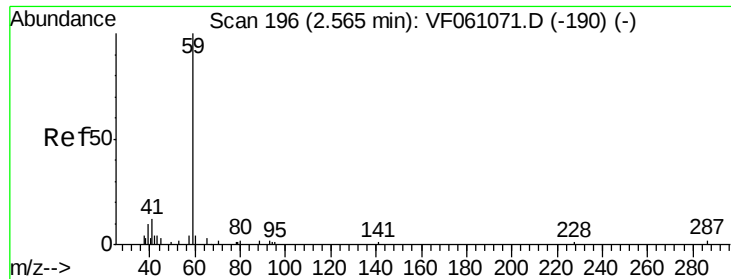


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

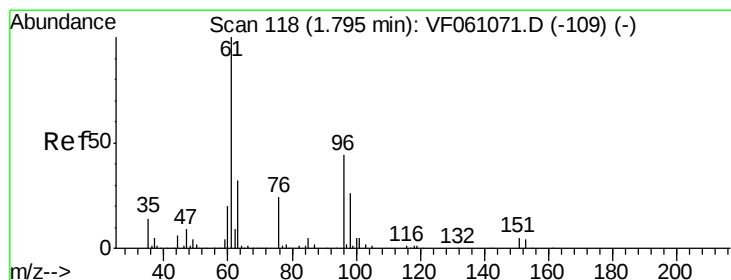
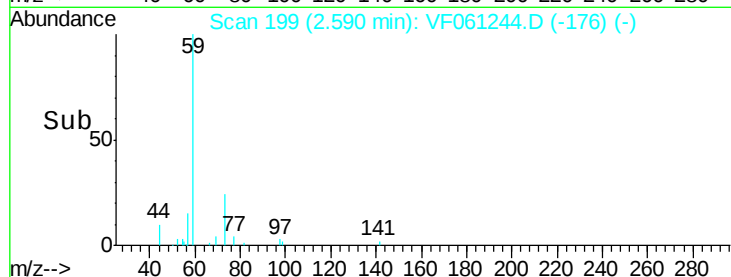
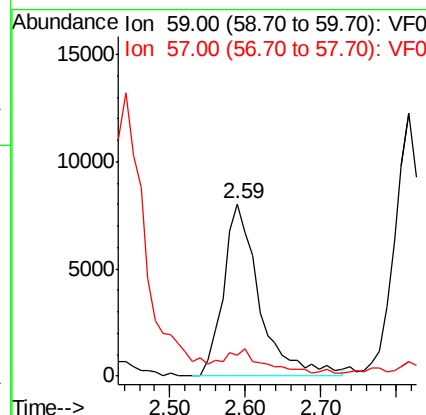
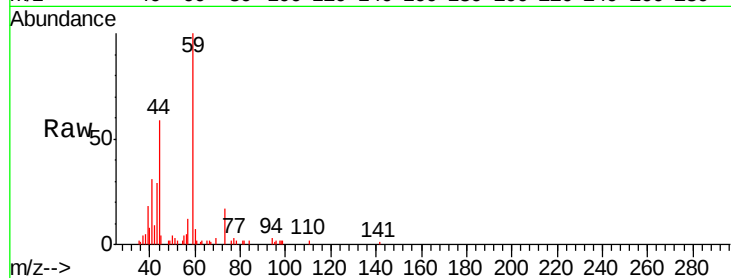




#11  
Tert butyl alcohol  
Concen: 211.955 ug/l  
RT: 2.59 min Scan# 199  
Delta R.T. 0.03 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

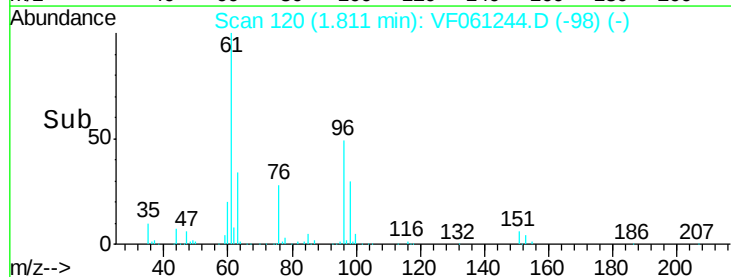
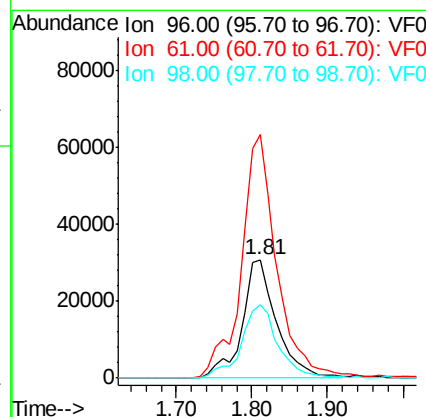
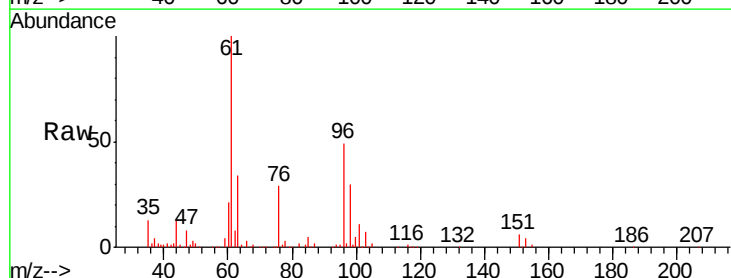
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

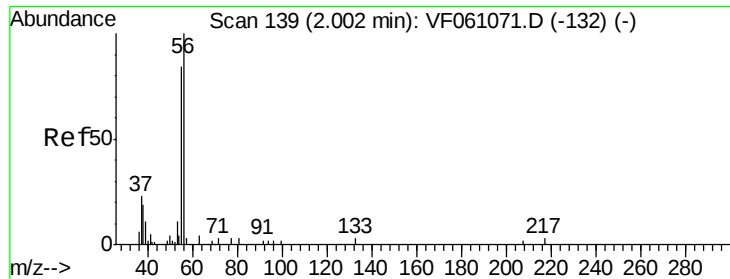
Tgt Ion: 59 Resp: 26556  
Ion Ratio Lower Upper  
59 100  
57 11.9 11.5 17.3



#12  
1,1-Dichloroethene  
Concen: 45.895 ug/l  
RT: 1.81 min Scan# 120  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion: 96 Resp: 97660  
Ion Ratio Lower Upper  
96 100  
61 205.3 182.0 273.0  
98 62.3 46.5 69.7

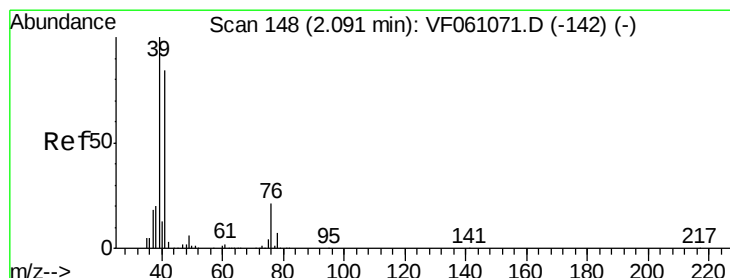
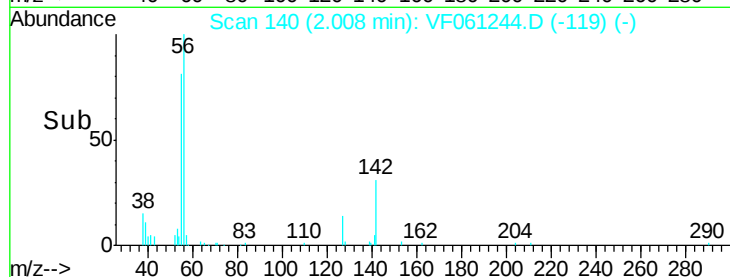
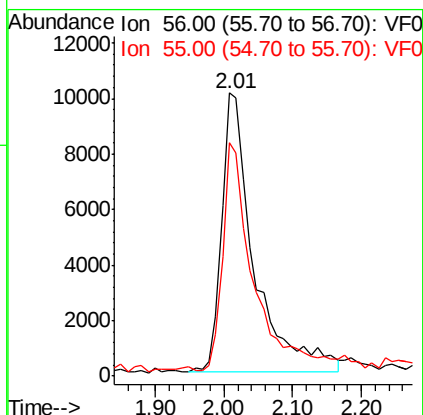
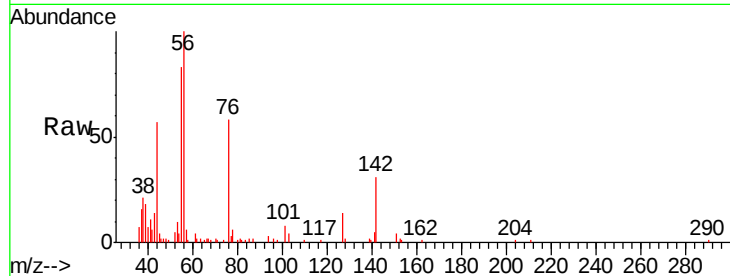




#13  
Acrolein  
Concen: 364.159 ug/l  
RT: 2.01 min Scan# 140  
Delta R.T. 0.01 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

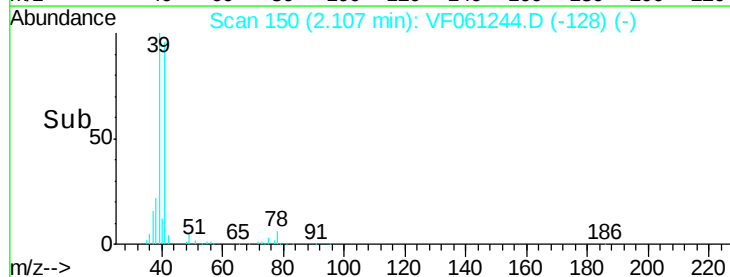
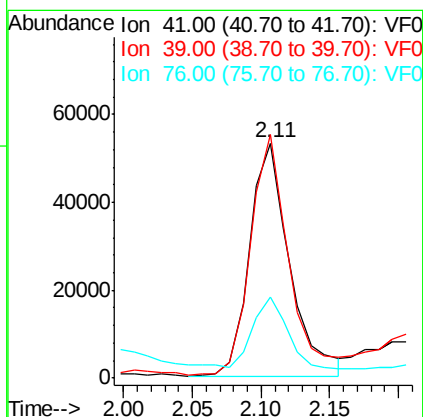
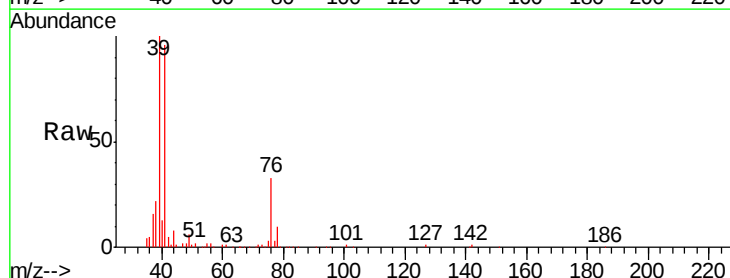
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

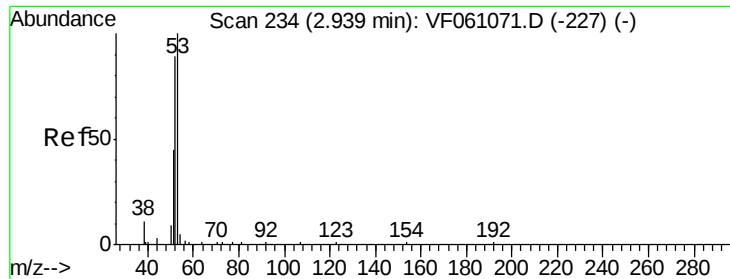
Tgt Ion: 56 Resp: 32969  
Ion Ratio Lower Upper  
56 100  
55 82.6 70.2 105.2



#14  
Allyl chloride  
Concen: 48.578 ug/l  
RT: 2.11 min Scan# 150  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion: 41 Resp: 107574  
Ion Ratio Lower Upper  
41 100  
39 103.7 96.4 144.6  
76 34.5 25.4 38.0





#15

Acrylonitrile

Concen: 277.525 ug/l

RT: 2.96 min Scan# 237

Delta R.T. 0.03 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

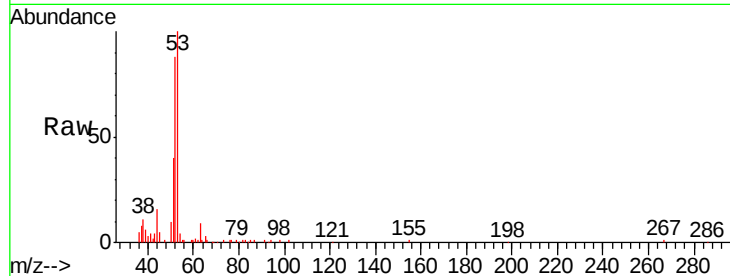
Tgt Ion: 53 Resp: 80405

Ion Ratio Lower Upper

53 100

52 87.9 71.3 106.9

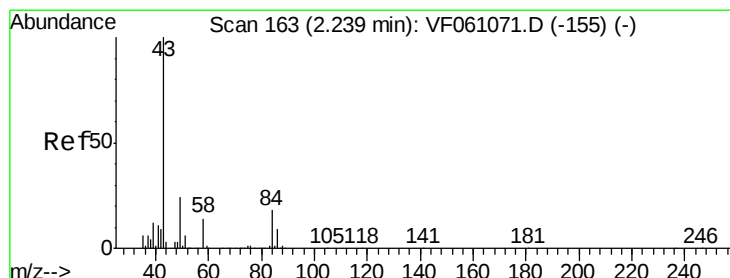
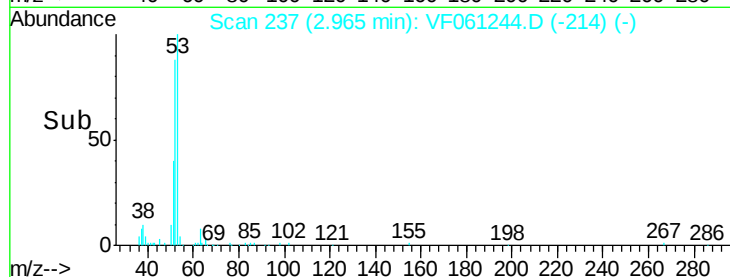
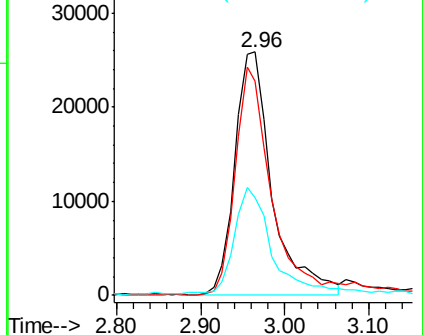
51 39.9 36.8 55.2



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 166.095 ug/l

RT: 2.25 min Scan# 165

Delta R.T. 0.02 min

Lab File: VF061244.D

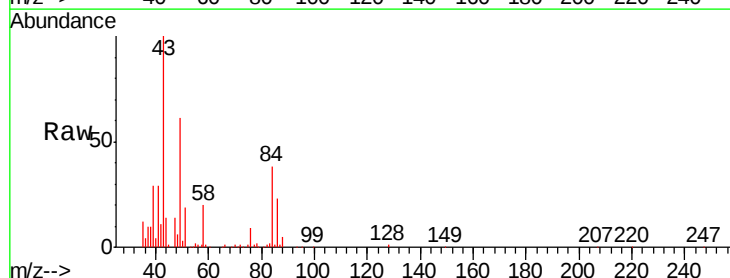
Acq: 28 Dec 2018 19:10

Tgt Ion: 43 Resp: 103092

Ion Ratio Lower Upper

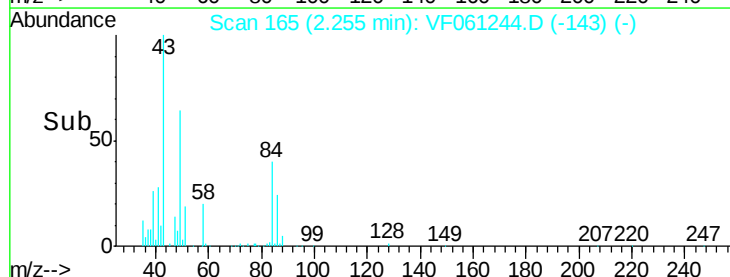
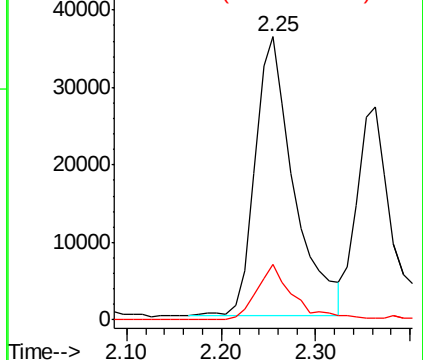
43 100

58 19.7 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

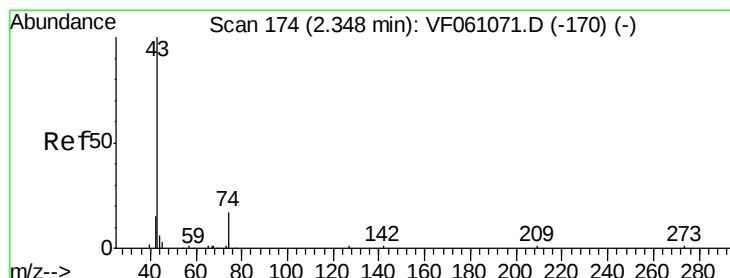
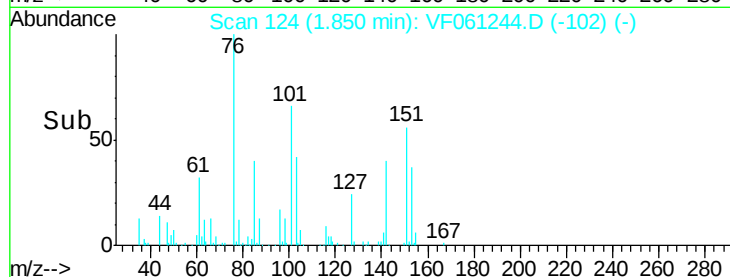
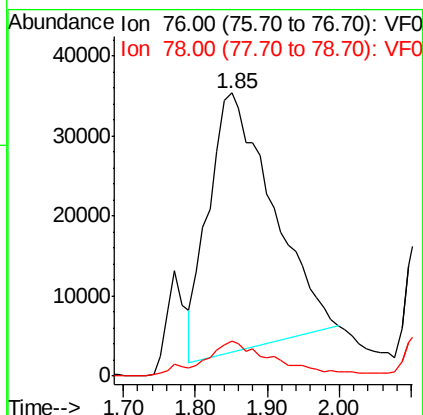
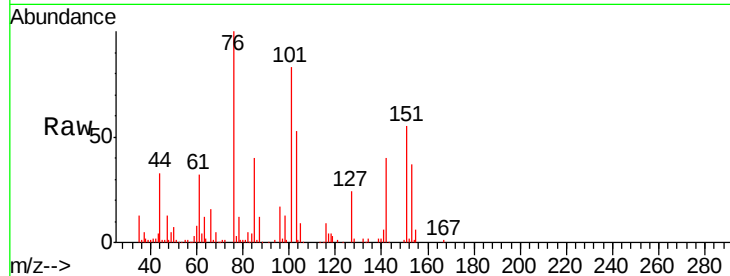




#17  
Carbon Disulfide  
Concen: 30.985 ug/l  
RT: 1.85 min Scan# 124  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

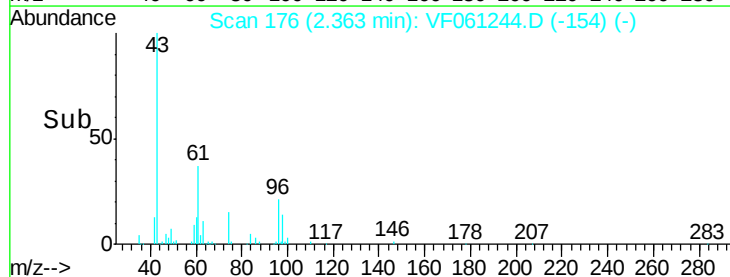
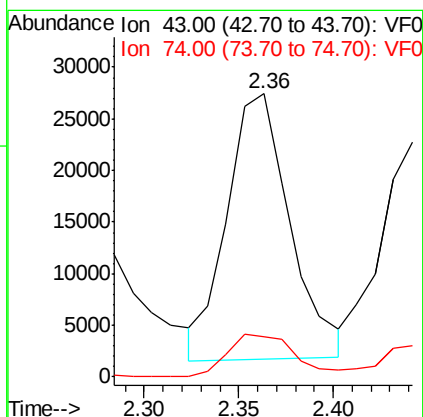
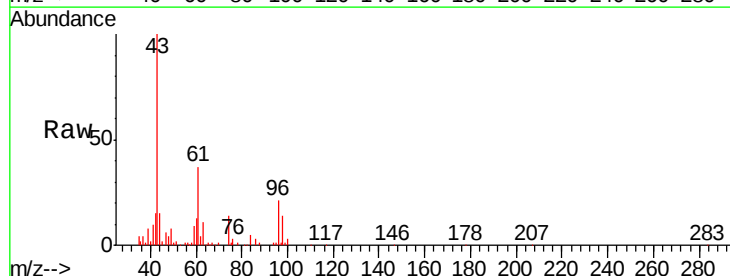
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

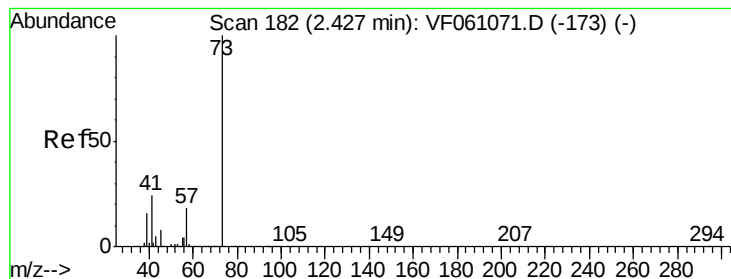
Tgt Ion: 76 Resp: 199252  
Ion Ratio Lower Upper  
76 100  
78 12.4 10.2 15.4



#18  
Methyl Acetate  
Concen: 46.368 ug/l  
RT: 2.36 min Scan# 176  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion: 43 Resp: 59543  
Ion Ratio Lower Upper  
43 100  
74 14.3 11.0 16.6



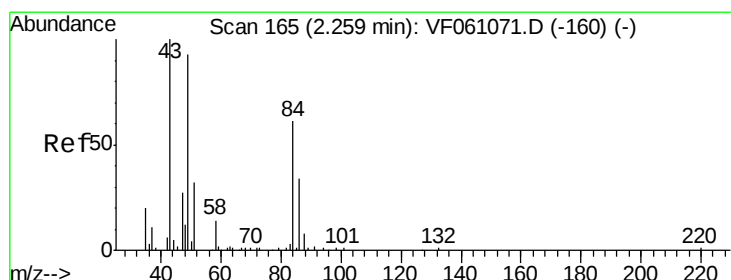
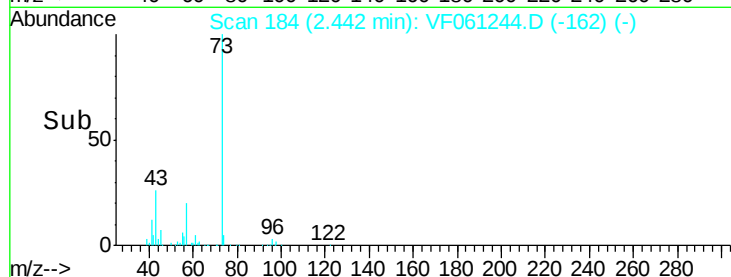
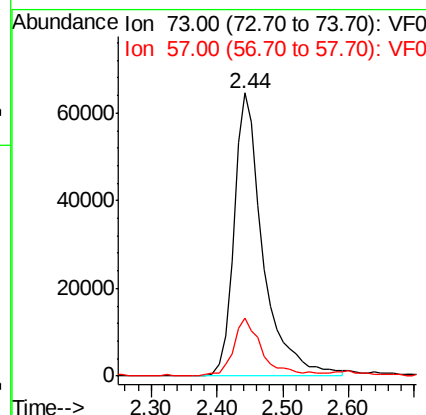
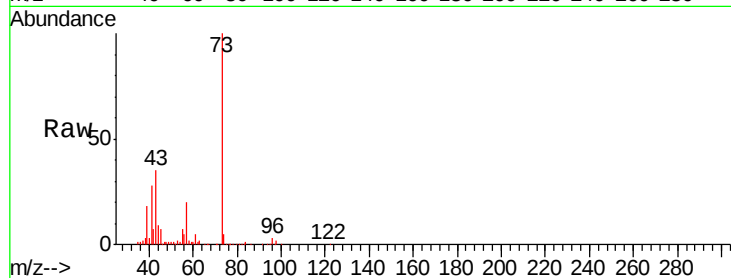


#19

Methyl tert-butyl Ether  
 Concen: 42.299 ug/l  
 RT: 2.44 min Scan# 184  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

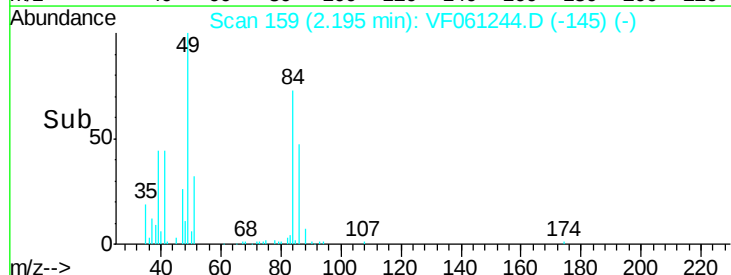
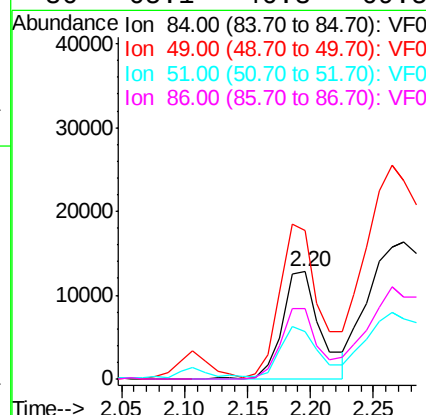
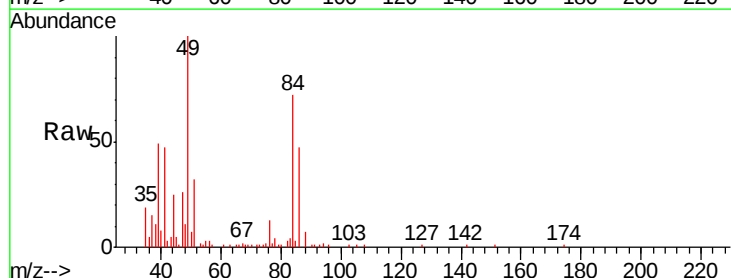
Tgt Ion: 73 Resp: 199790  
 Ion Ratio Lower Upper  
 73 100  
 57 20.5 14.5 21.7

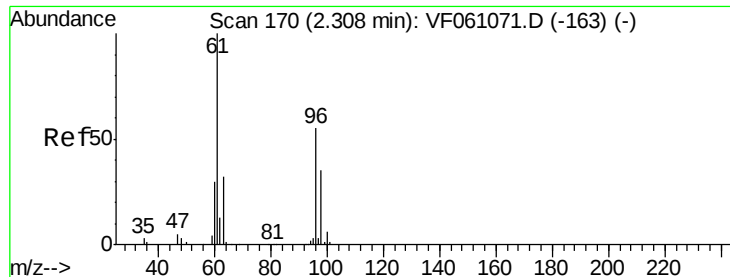


#20

Methylene Chloride  
 Concen: 9.975 ug/l  
 RT: 2.20 min Scan# 159  
 Delta R.T. -0.06 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Tgt Ion: 84 Resp: 26917  
 Ion Ratio Lower Upper  
 84 100  
 49 138.8 129.4 194.2  
 51 44.6 44.0 66.0  
 86 65.1 46.3 69.5





#21

trans-1,2-Dichloroethene

Concen: 30.711 ug/l

RT: 2.32 min Scan# 172

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

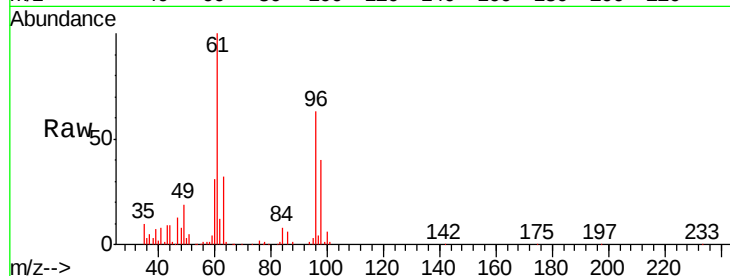
Tgt Ion: 96 Resp: 69896

Ion Ratio Lower Upper

96 100

61 159.9 146.0 219.0

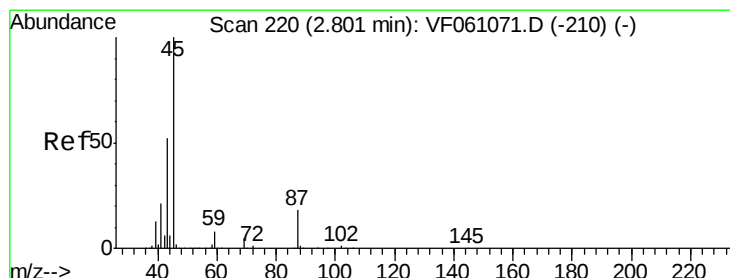
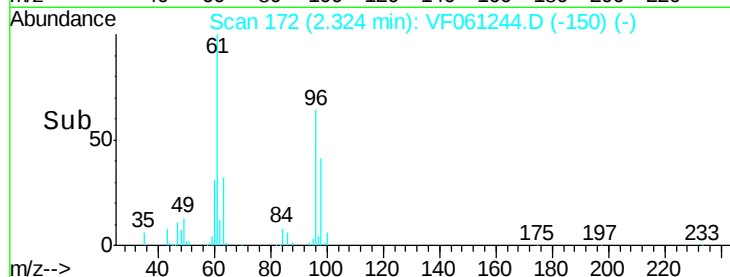
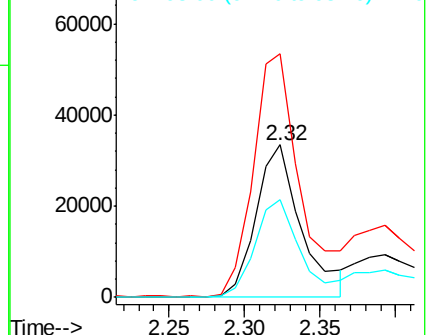
98 64.6 51.6 77.4



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 51.045 ug/l

RT: 2.82 min Scan# 222

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Tgt Ion: 45 Resp: 376528

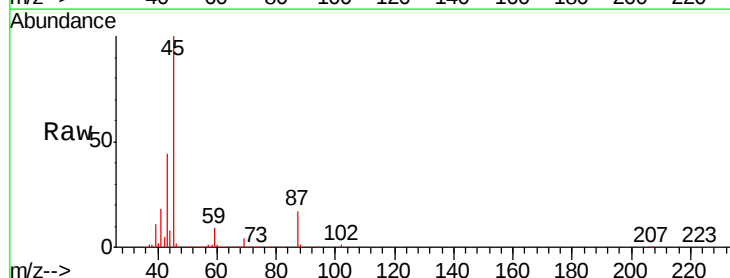
Ion Ratio Lower Upper

45 100

43 44.5 42.2 63.2

87 17.1 14.6 22.0

59 9.3 7.0 10.4

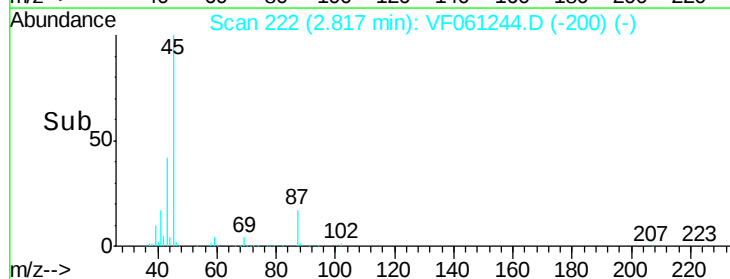
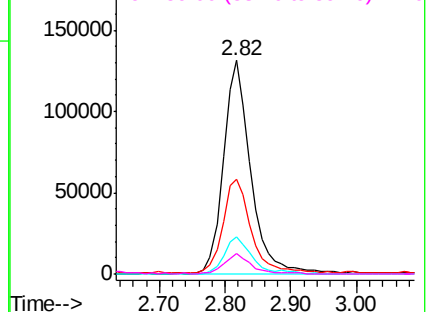


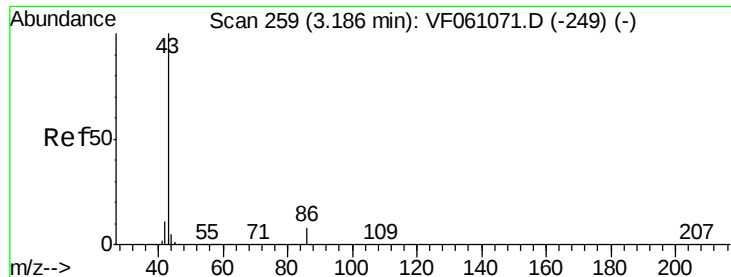
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 244.805 ug/l

RT: 3.20 min Scan# 261

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

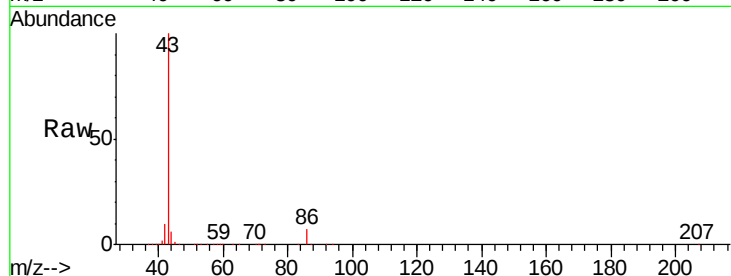
VSTDCCC050EC

Tgt Ion: 43 Resp: 833044

Ion Ratio Lower Upper

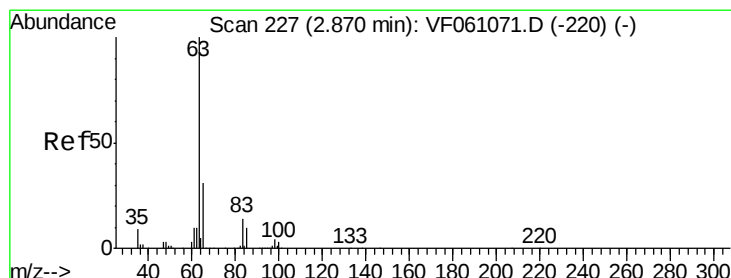
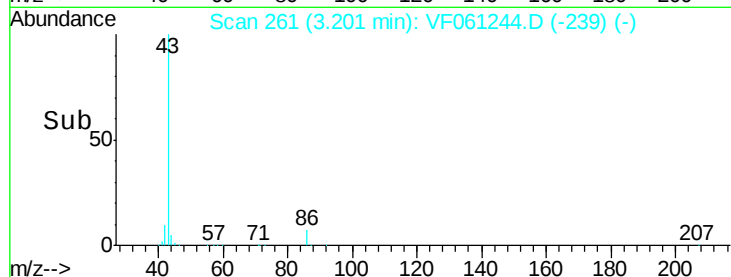
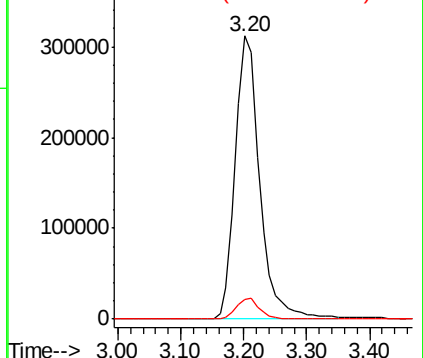
43 100

86 7.1 6.3 9.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 49.675 ug/l

RT: 2.89 min Scan# 229

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

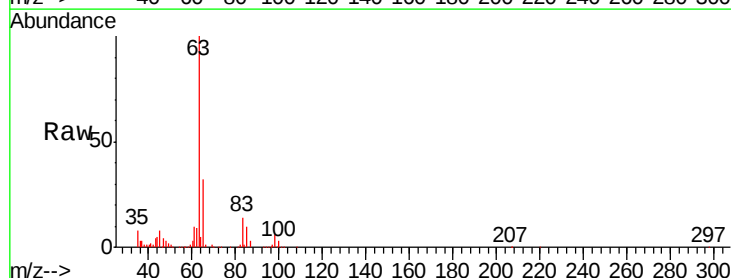
Tgt Ion: 63 Resp: 217103

Ion Ratio Lower Upper

63 100

98 6.0 2.1 6.5

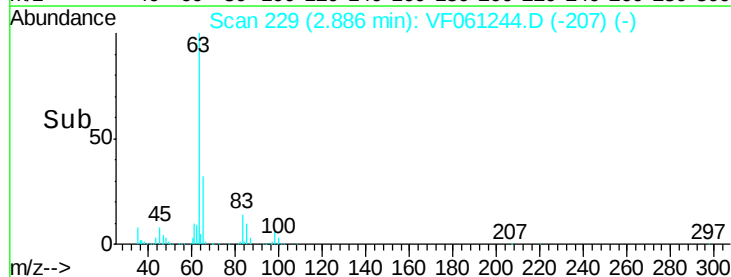
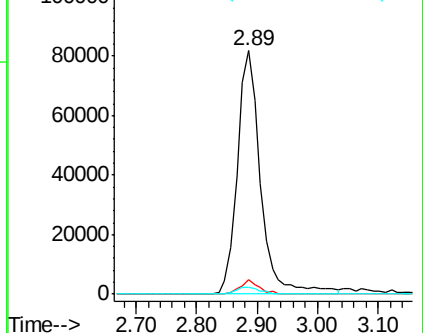
100 2.7 1.7 5.1

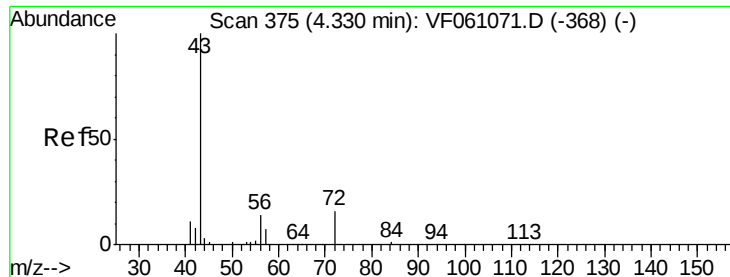


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 232.976 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.03 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

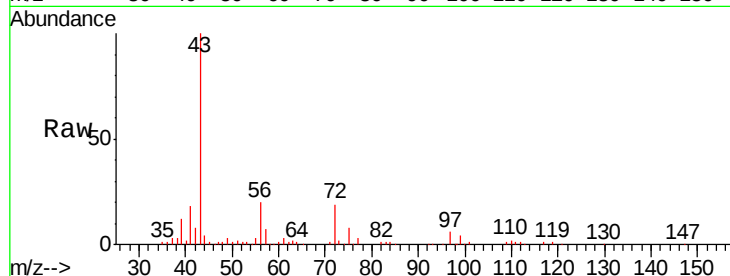
VSTDCCC050EC

Tgt Ion: 43 Resp: 234520

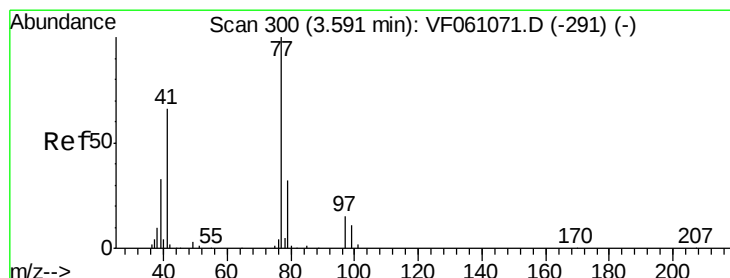
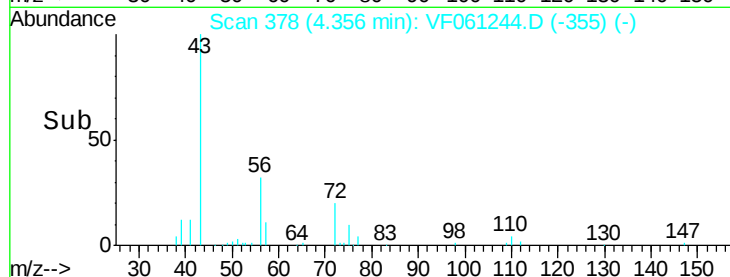
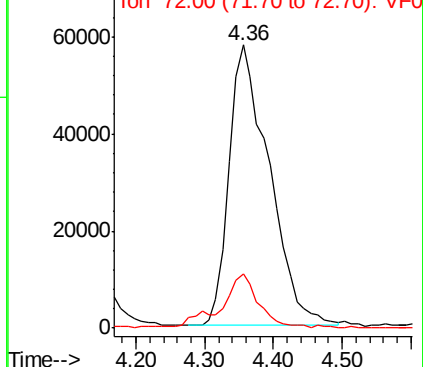
Ion Ratio Lower Upper

43 100

72 19.3 15.6 23.4



Abundance Ion 43.00 (42.70 to 43.70): VF0



#26

2,2-Dichloropropane

Concen: 44.572 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.03 min

Lab File: VF061244.D

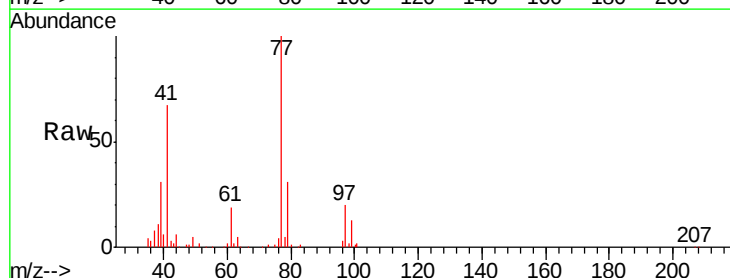
Acq: 28 Dec 2018 19:10

Tgt Ion: 77 Resp: 111792

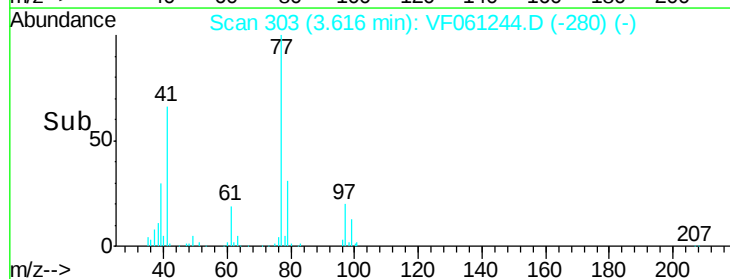
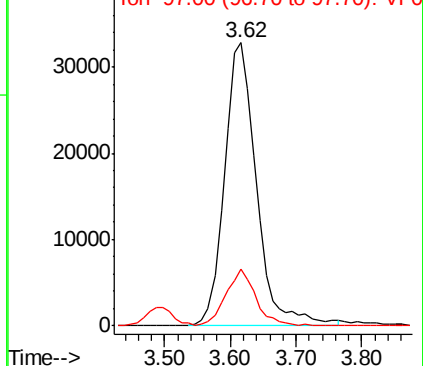
Ion Ratio Lower Upper

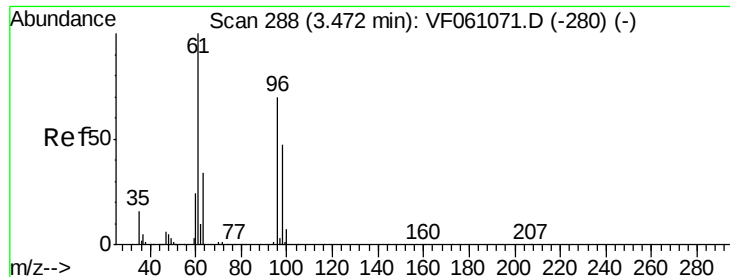
77 100

97 19.9 8.2 24.4



Abundance Ion 77.00 (76.70 to 77.70): VF0



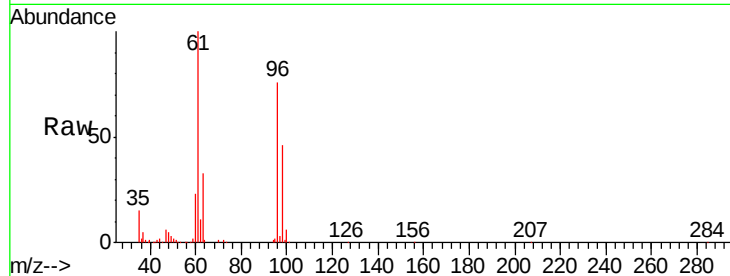


#27

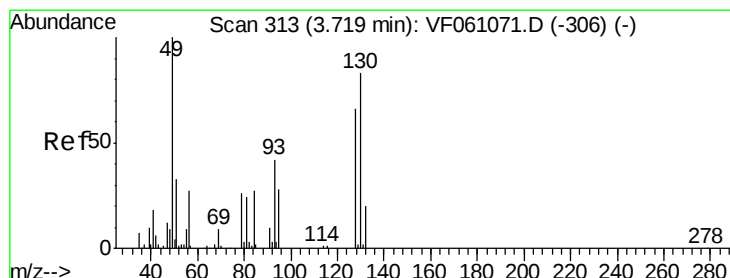
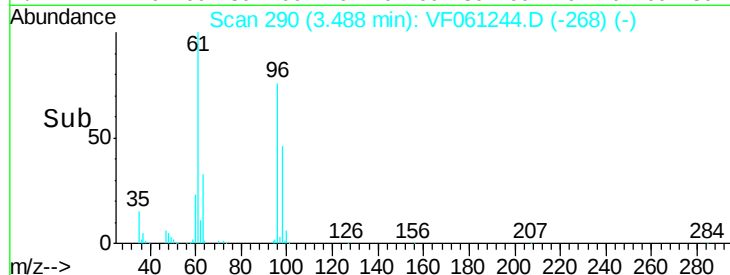
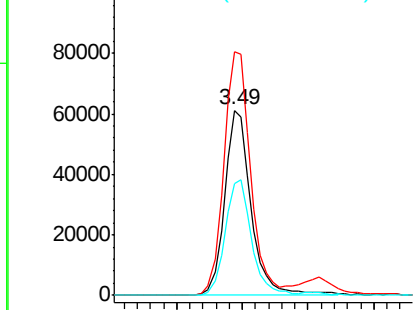
cis-1,2-Dichloroethene  
 Concen: 49.394 ug/l  
 RT: 3.49 min Scan# 290  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

Tgt Ion: 96 Resp: 172101  
 Ion Ratio Lower Upper  
 96 100  
 61 131.5 0.0 287.8  
 98 60.1 0.0 134.2



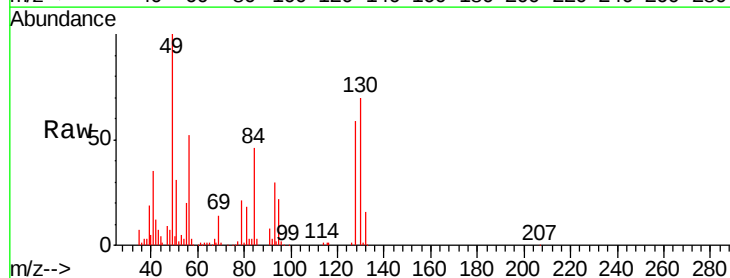
Abundance Ion 96.00 (95.70 to 96.70): VF0  
 Ion 61.00 (60.70 to 61.70): VF0  
 Ion 98.00 (97.70 to 98.70): VF0



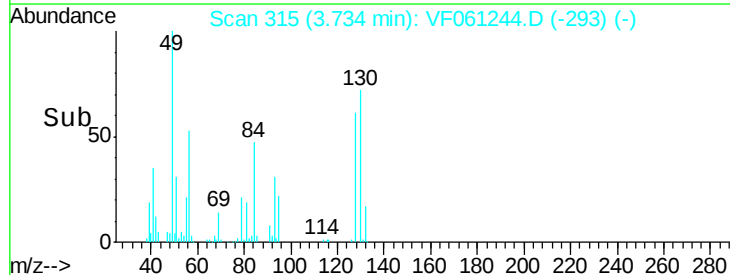
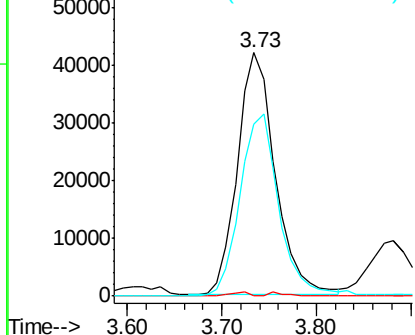
#28

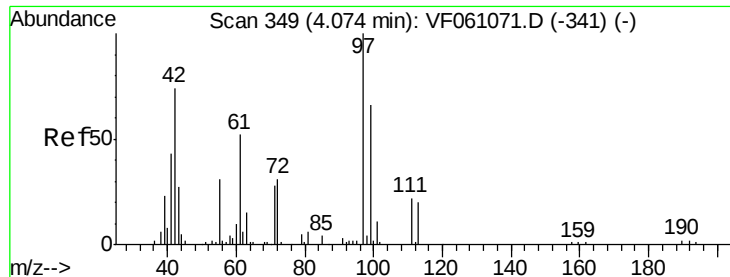
Bromochloromethane  
 Concen: 52.485 ug/l  
 RT: 3.73 min Scan# 315  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Tgt Ion: 49 Resp: 116389  
 Ion Ratio Lower Upper  
 49 100  
 129 0.0 0.0 3.6  
 130 70.5 65.8 98.6



Abundance Ion 49.00 (48.70 to 49.70): VF0  
 Ion 129.00 (128.70 to 129.70): V  
 Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 248.584 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

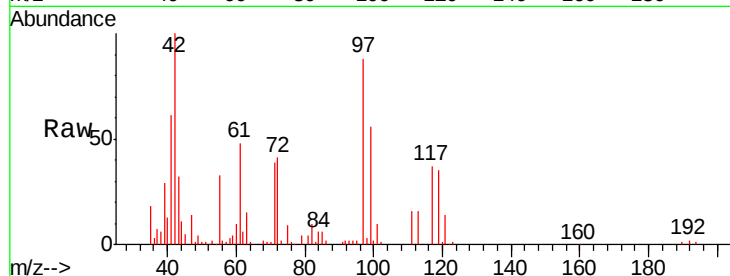
Tgt Ion: 42 Resp: 101847

Ion Ratio Lower Upper

42 100

72 36.6 31.8 47.8

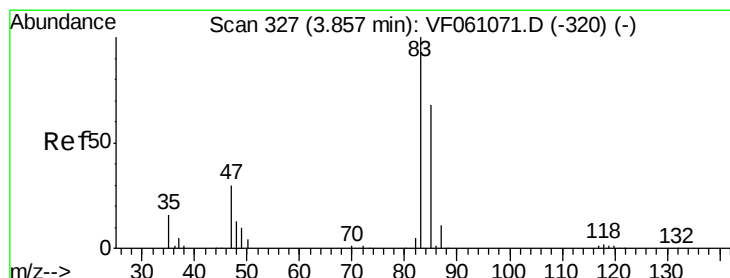
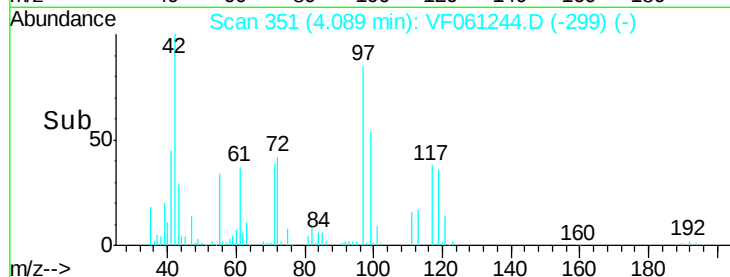
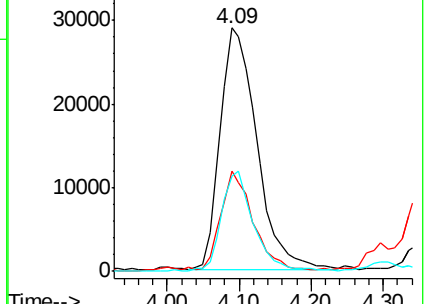
71 36.7 29.7 44.5



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: 43.813 ug/l

RT: 3.88 min Scan# 330

Delta R.T. 0.03 min

Lab File: VF061244.D

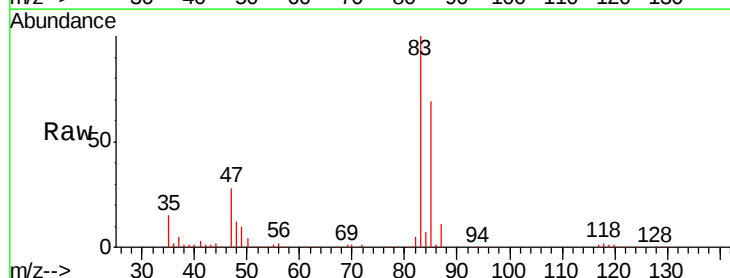
Acq: 28 Dec 2018 19:10

Tgt Ion: 83 Resp: 287115

Ion Ratio Lower Upper

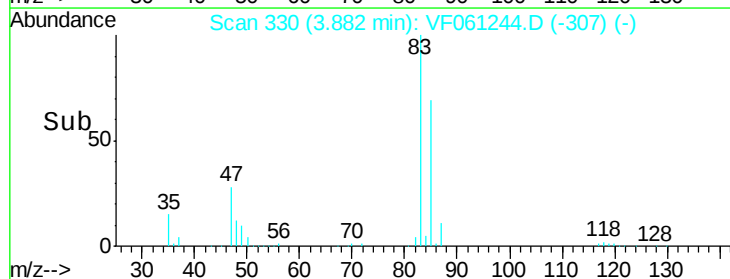
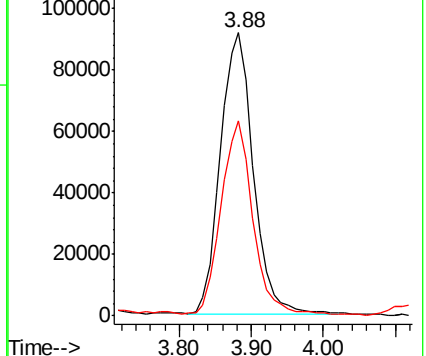
83 100

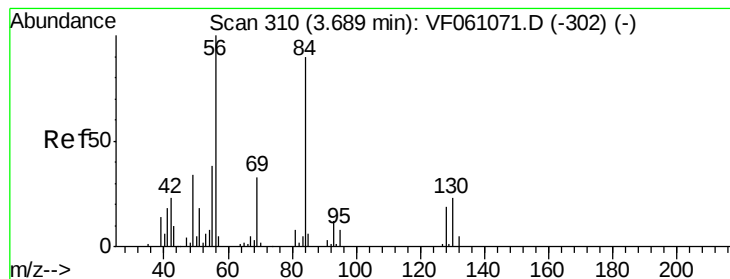
85 68.7 54.5 81.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 29.408 ug/l

RT: 3.71 min Scan# 313

Delta R.T. 0.03 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

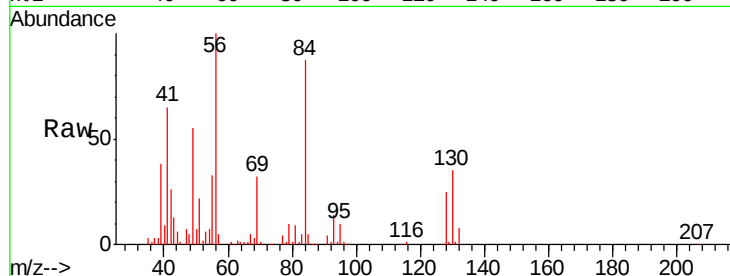
Tgt Ion: 56 Resp: 133368

Ion Ratio Lower Upper

56 100

69 32.0 26.0 39.0

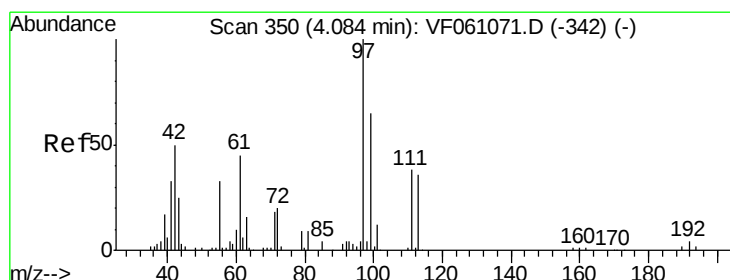
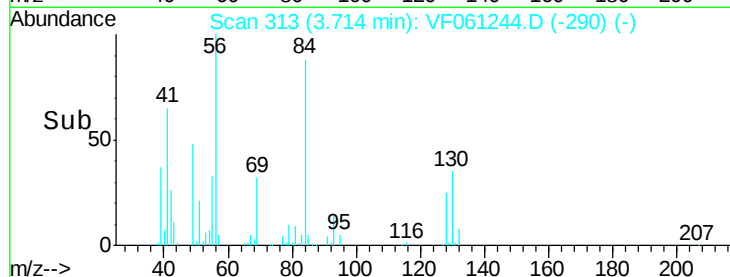
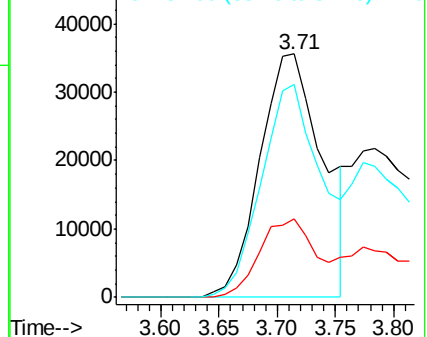
84 87.2 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 39.595 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.04 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

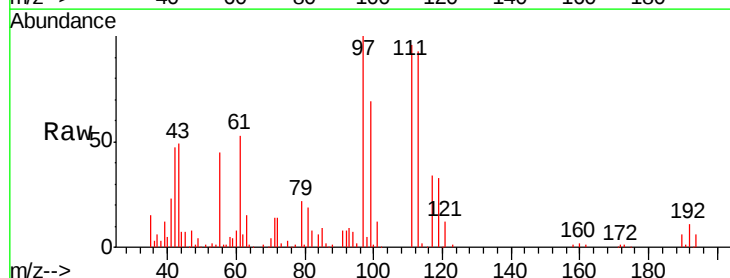
Tgt Ion: 97 Resp: 155525

Ion Ratio Lower Upper

97 100

99 69.2 51.6 77.4

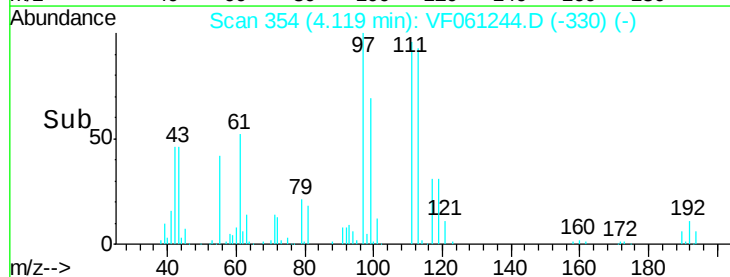
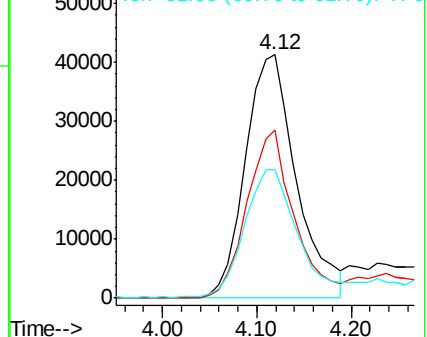
61 52.8 36.2 54.2

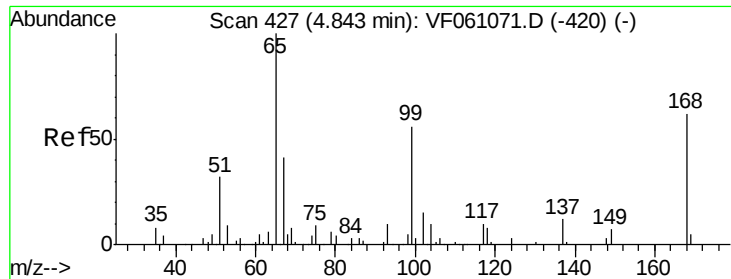


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

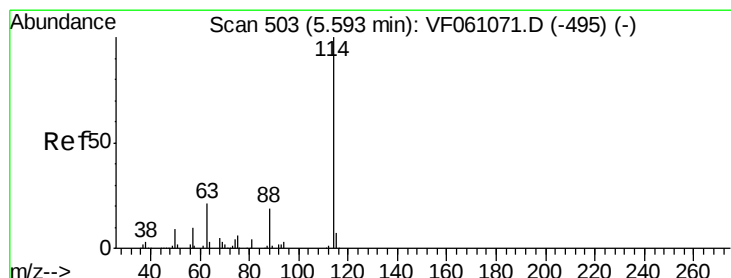
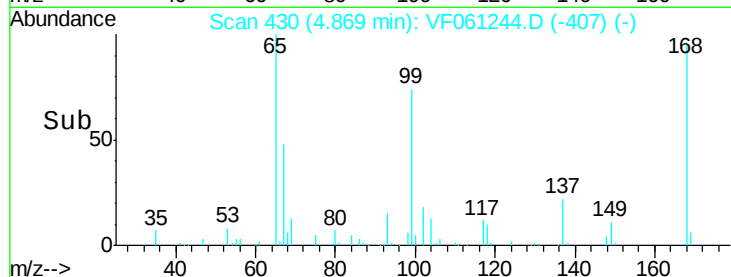
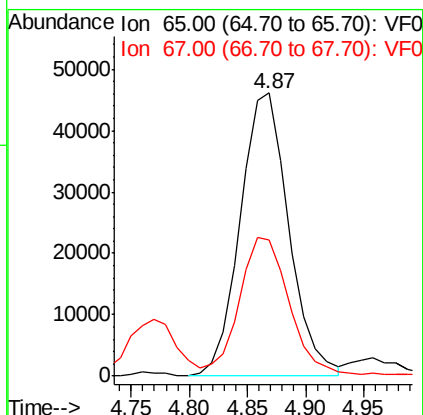
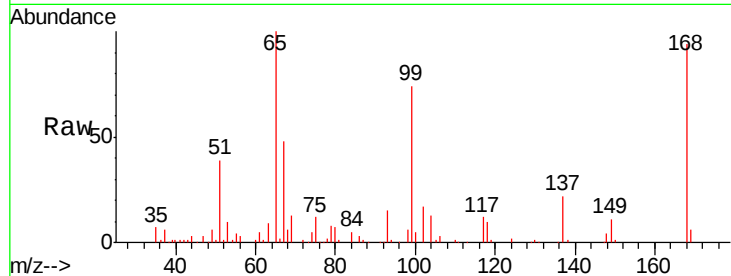




#33  
 1,2-Dichloroethane-d4  
 Concen: 42.990 ug/l  
 RT: 4.87 min Scan# 430  
 Delta R.T. 0.03 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

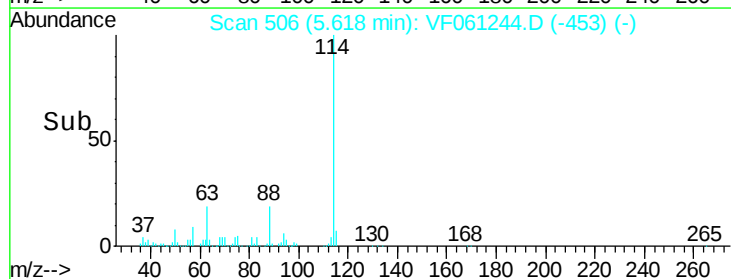
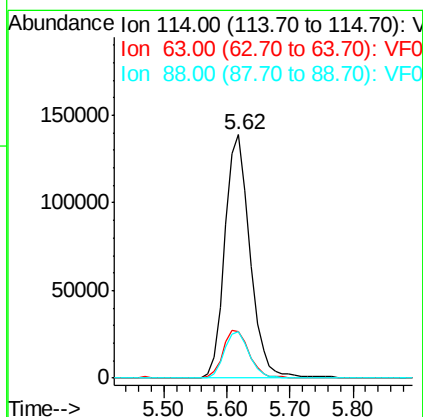
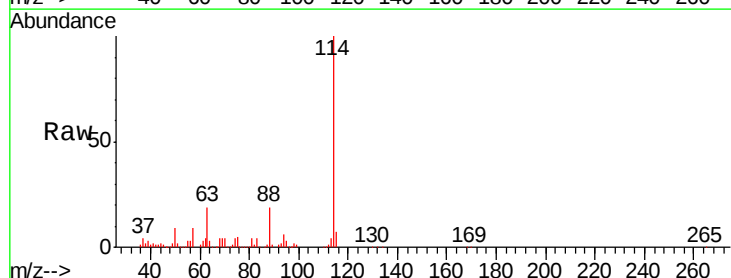
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

Tgt Ion: 65 Resp: 133476  
 Ion Ratio Lower Upper  
 65 100  
 67 48.2 0.0 94.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.62 min Scan# 506  
 Delta R.T. 0.03 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Tgt Ion: 114 Resp: 384086  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 41.6  
 88 19.3 0.0 38.0

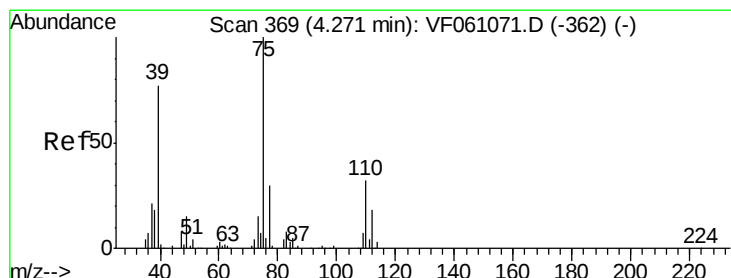
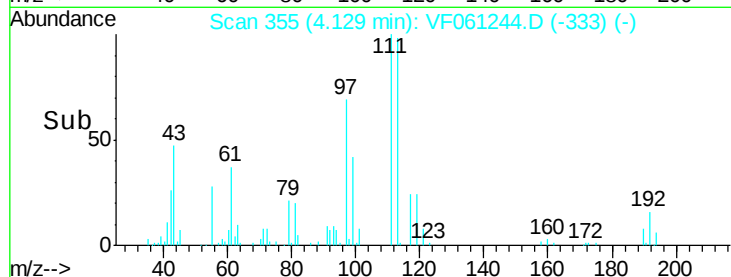
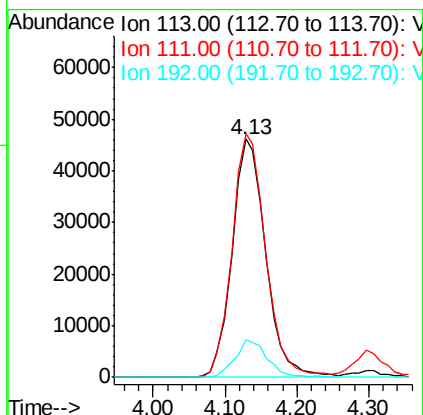
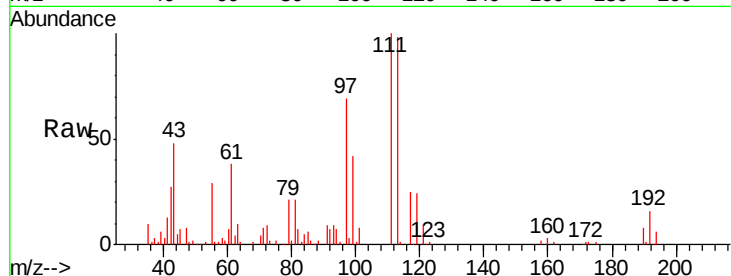




#35  
 Dibromofluoromethane  
 Concen: 48.659 ug/l  
 RT: 4.13 min Scan# 355  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

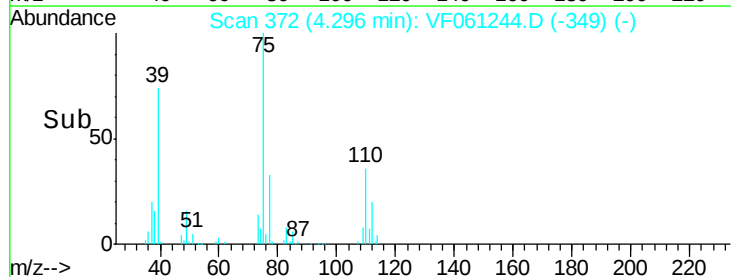
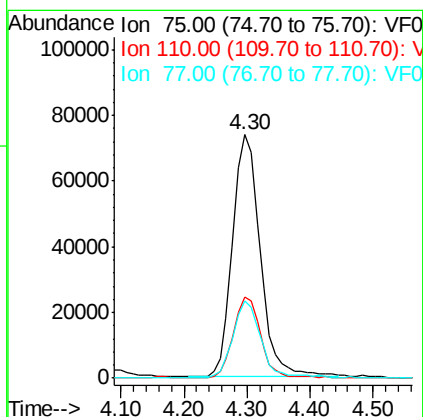
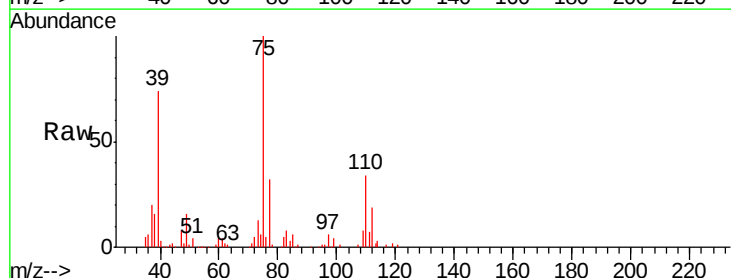
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

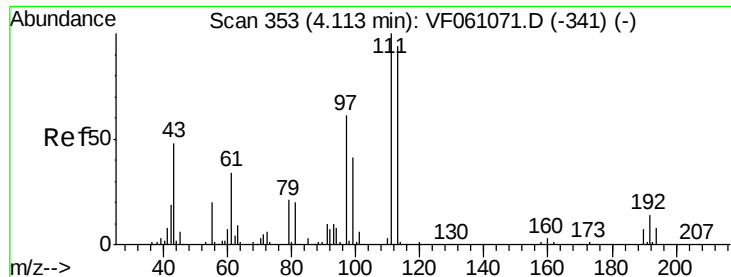
Tgt Ion: 113 Resp: 149711  
 Ion Ratio Lower Upper  
 113 100  
 111 102.3 85.2 127.8  
 192 16.0 12.8 19.2



#36  
 1,1-Dichloropropene  
 Concen: 48.336 ug/l  
 RT: 4.30 min Scan# 372  
 Delta R.T. 0.03 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Tgt Ion: 75 Resp: 224093  
 Ion Ratio Lower Upper  
 75 100  
 110 33.5 16.1 48.2  
 77 31.5 24.5 36.7

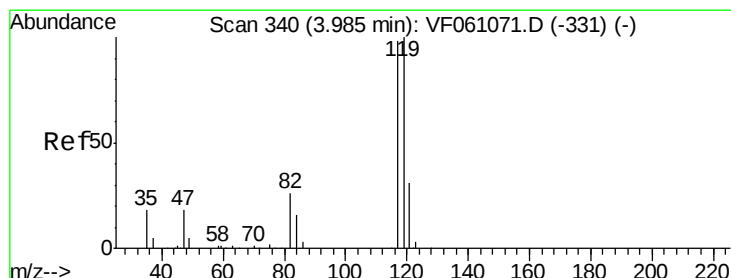
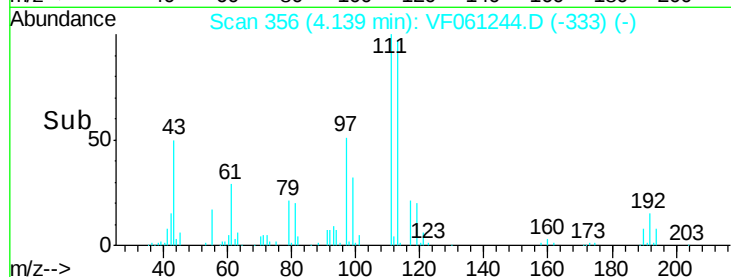
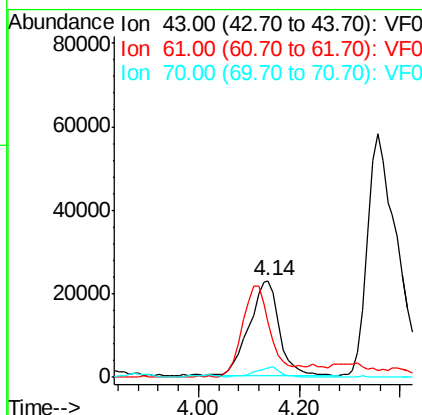
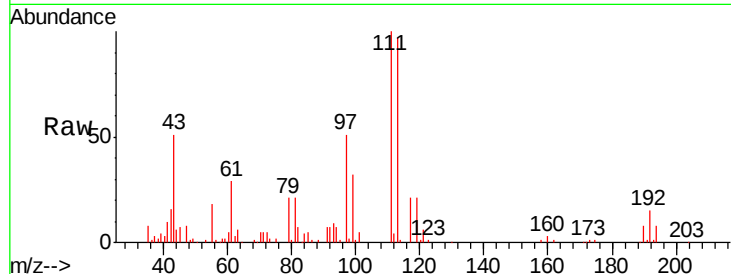




#37  
Ethyl Acetate  
Concen: 53.161 ug/l  
RT: 4.14 min Scan# 356  
Delta R.T. 0.03 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

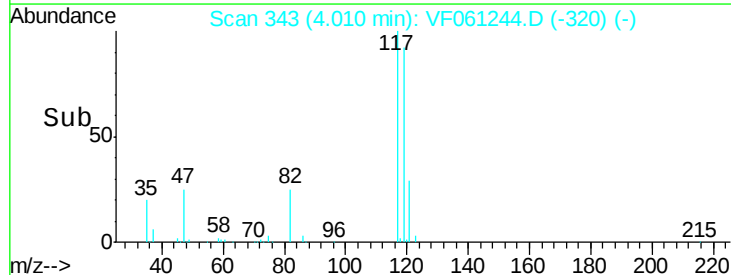
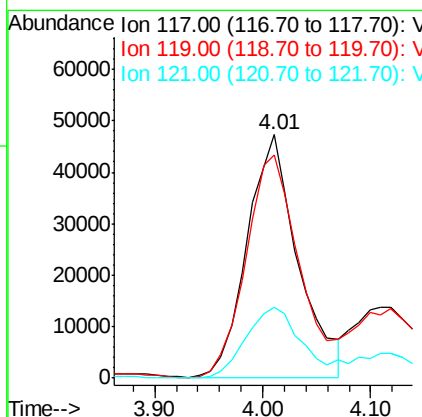
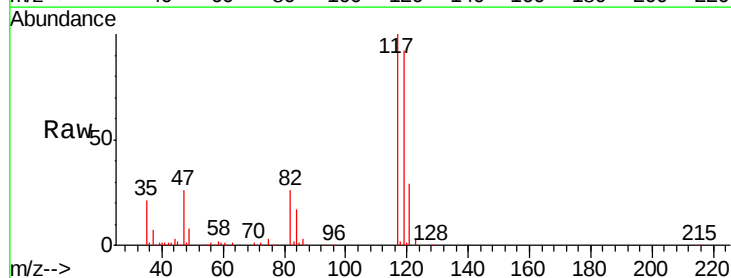
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

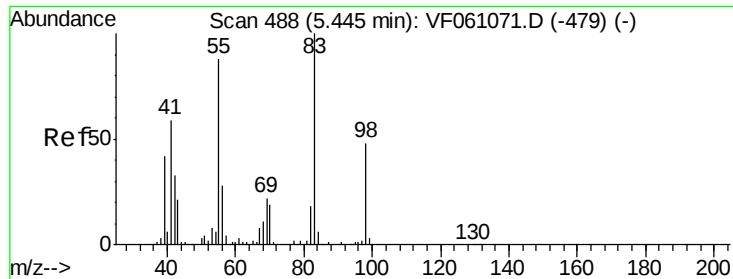
Tgt Ion: 43 Resp: 94789  
Ion Ratio Lower Upper  
43 100  
61 56.9 56.6 84.8  
70 9.5 6.3 9.5#



#38  
Carbon Tetrachloride  
Concen: 43.878 ug/l  
RT: 4.01 min Scan# 343  
Delta R.T. 0.03 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion: 117 Resp: 154916  
Ion Ratio Lower Upper  
117 100  
119 91.6 82.1 123.1  
121 28.9 25.5 38.3

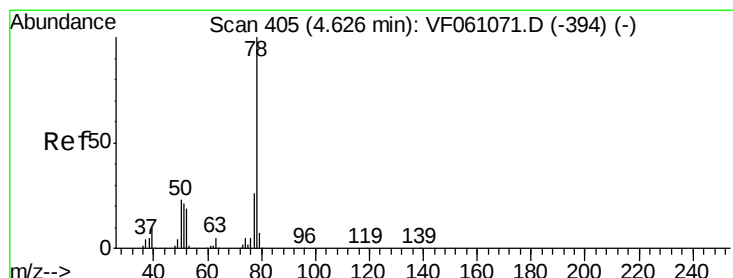
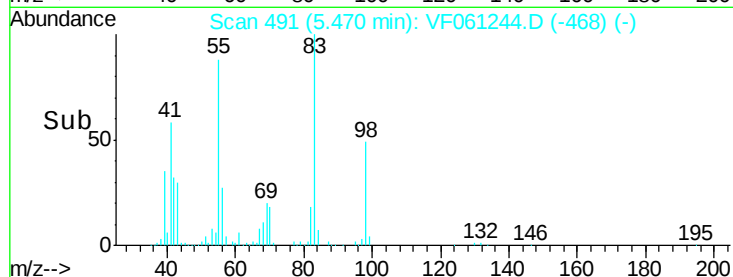
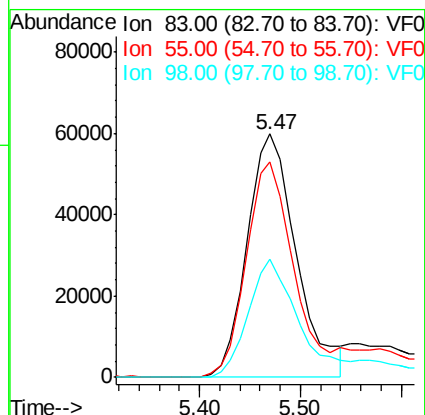
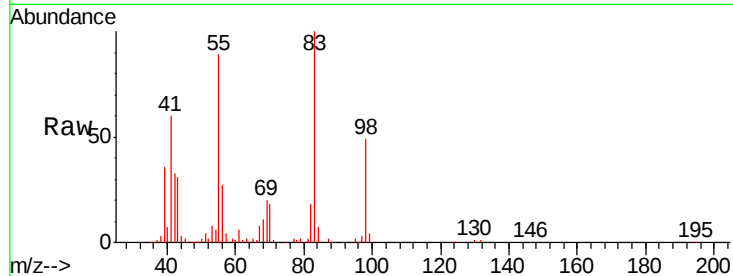




#39  
Methylcyclohexane  
Concen: 48.855 ug/l  
RT: 5.47 min Scan# 491  
Delta R.T. 0.03 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

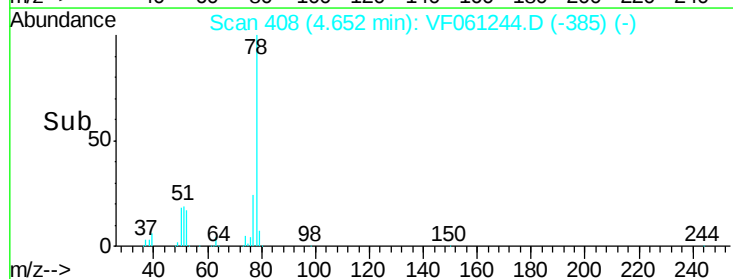
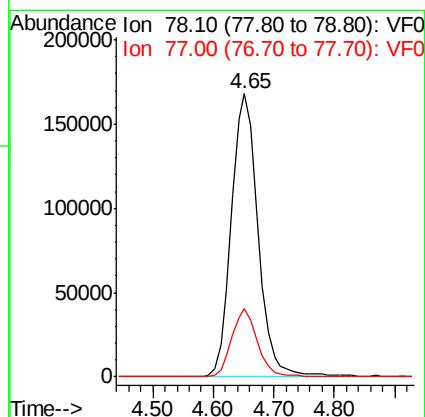
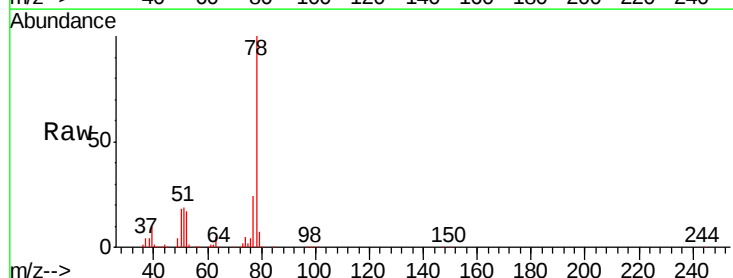
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

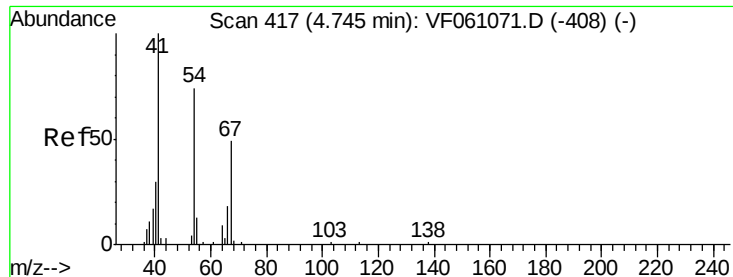
Tgt Ion: 83 Resp: 203201  
Ion Ratio Lower Upper  
83 100  
55 88.6 70.6 105.8  
98 48.6 38.5 57.7



#40  
Benzene  
Concen: 51.623 ug/l  
RT: 4.65 min Scan# 408  
Delta R.T. 0.03 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion: 78 Resp: 514688  
Ion Ratio Lower Upper  
78 100  
77 24.0 20.7 31.1

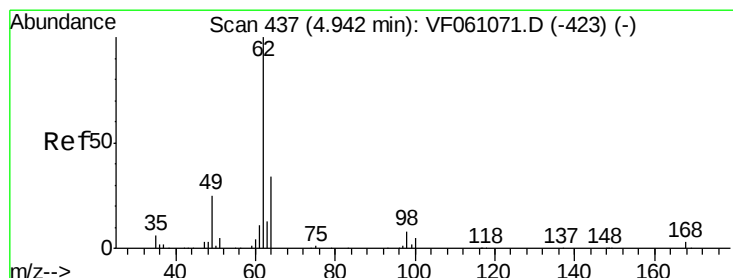
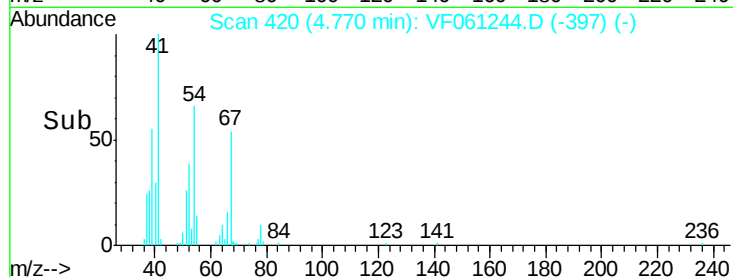
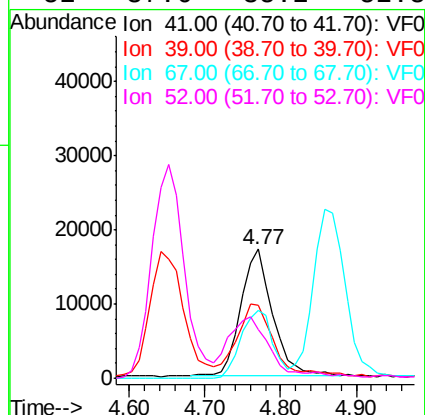
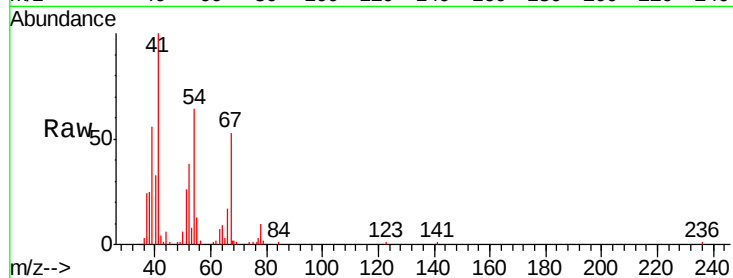




#41  
Methacrylonitrile  
Concen: 50.352 ug/l  
RT: 4.77 min Scan# 420  
Delta R.T. 0.03 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

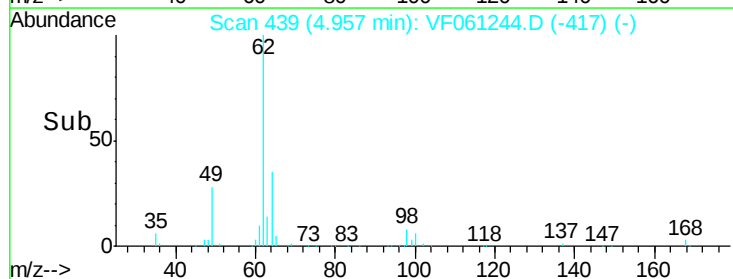
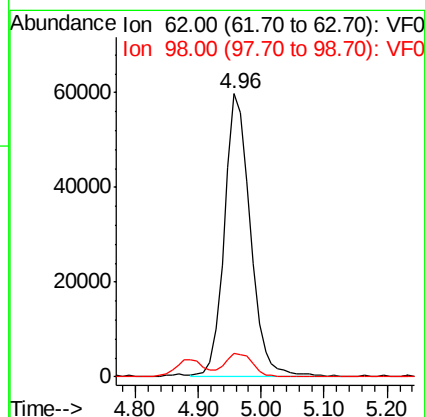
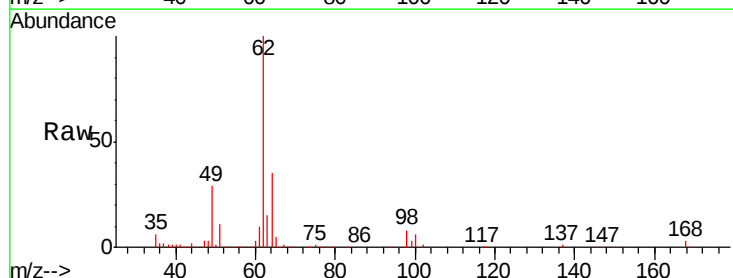
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

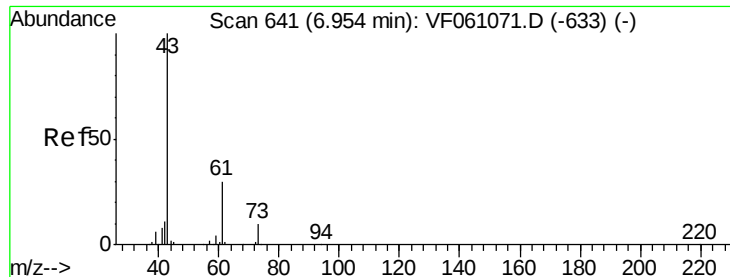
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 49300 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 56.4  | 45.7  | 68.5  |
| 67       | 53.1  | 38.9  | 58.3  |
| 52       | 37.6  | 35.2  | 52.8  |



#42  
1,2-Dichloroethane  
Concen: 44.414 ug/l  
RT: 4.96 min Scan# 439  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 168218 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 8.3   | 0.0   | 16.6   |





#43

Isopropyl Acetate

Concen: 54.783 ug/l

RT: 6.98 min Scan# 644

Delta R.T. 0.03 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

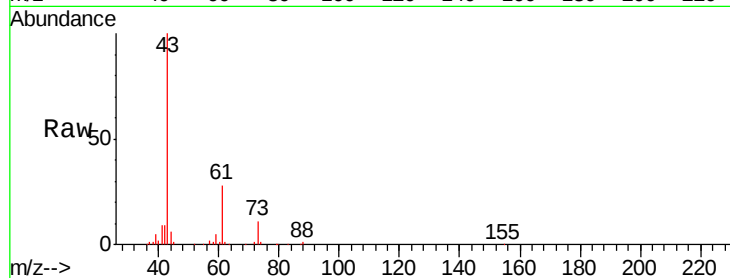
Tgt Ion: 43 Resp: 122637

Ion Ratio Lower Upper

43 100

61 28.2 23.8 35.8

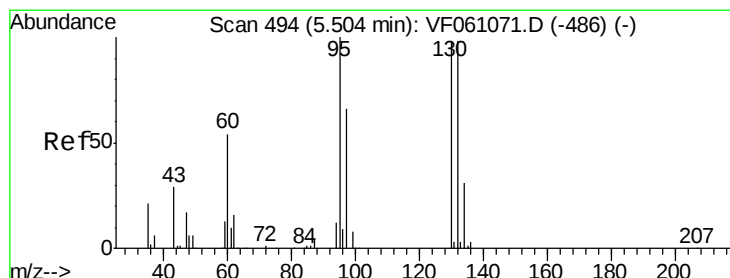
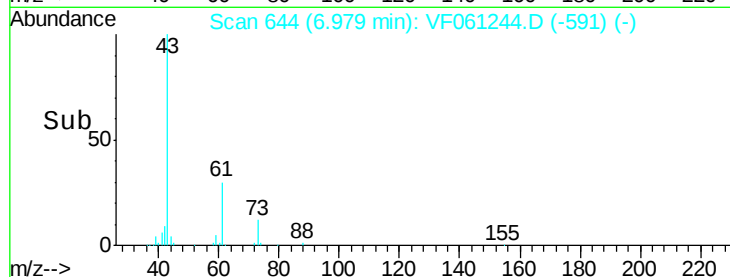
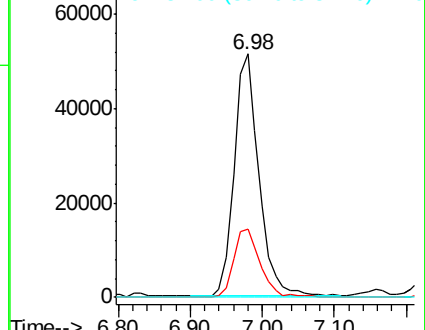
87 0.4 0.0 0.0#



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: 49.584 ug/l

RT: 5.52 min Scan# 496

Delta R.T. 0.02 min

Lab File: VF061244.D

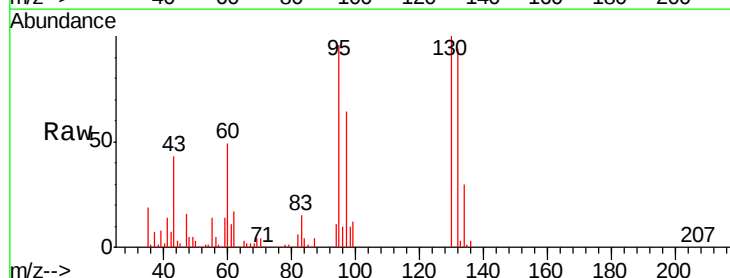
Acq: 28 Dec 2018 19:10

Tgt Ion: 130 Resp: 155860

Ion Ratio Lower Upper

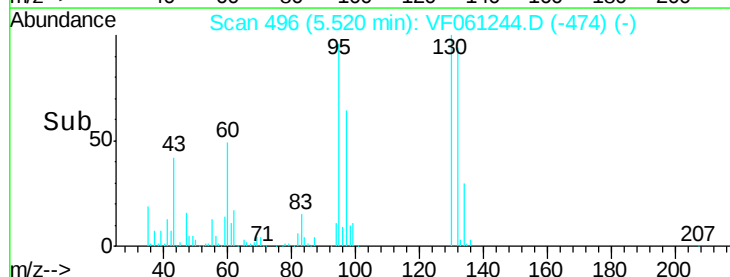
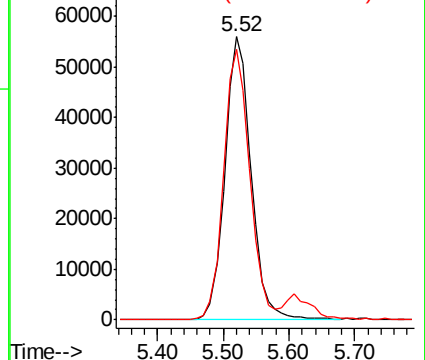
130 100

95 95.6 0.0 205.2



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 52.549 ug/l

RT: 6.26 min Scan# 571

Delta R.T. 0.03 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

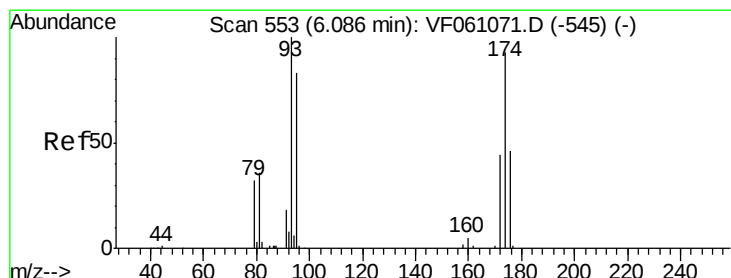
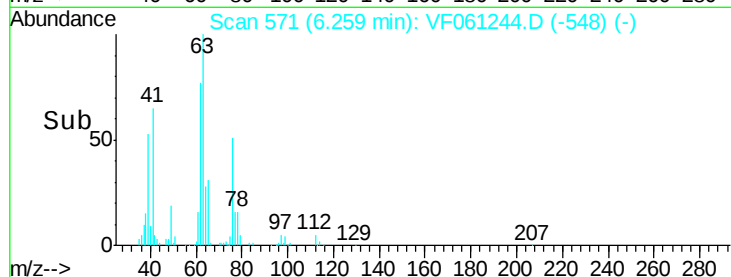
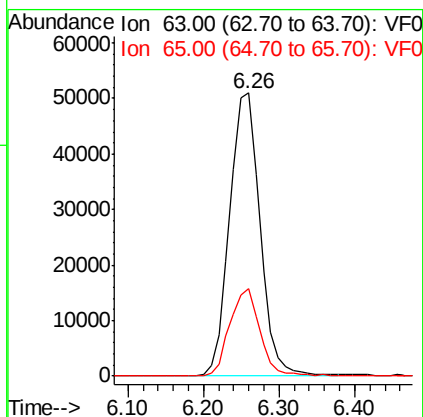
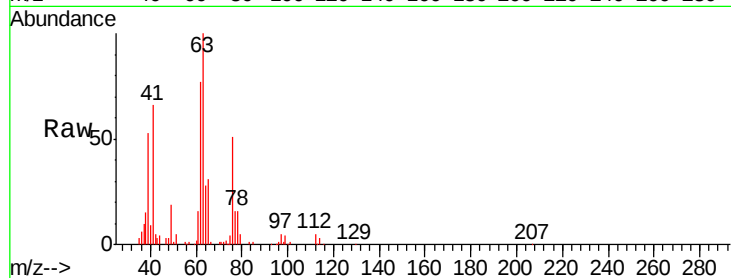
VSTDCCC050EC

Tgt Ion: 63 Resp: 142541

Ion Ratio Lower Upper

63 100

65 31.0 24.4 36.6



#46

Dibromomethane

Concen: 49.421 ug/l

RT: 6.10 min Scan# 555

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

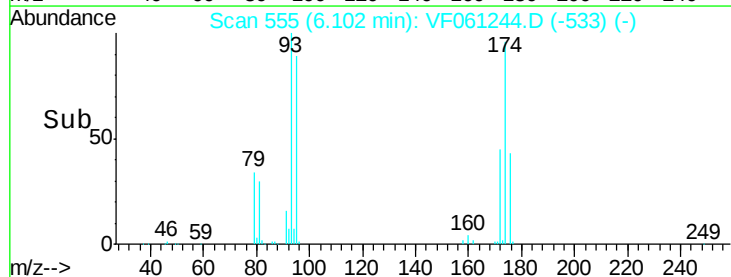
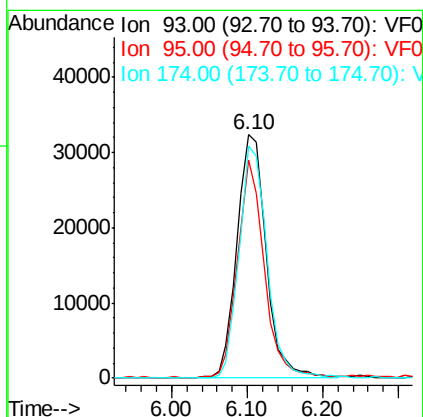
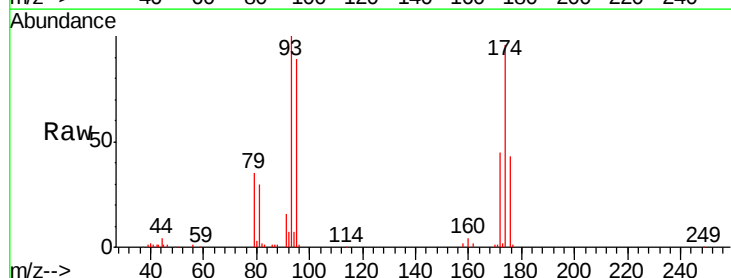
Tgt Ion: 93 Resp: 86948

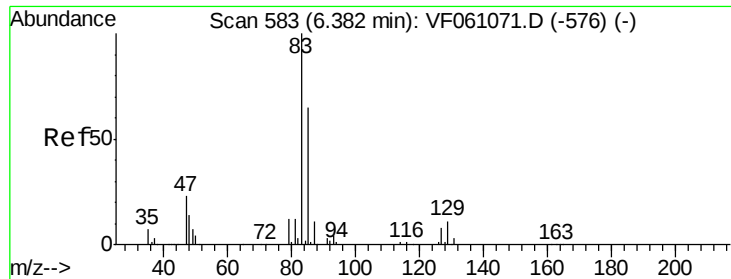
Ion Ratio Lower Upper

93 100

95 89.3 66.9 100.3

174 95.6 74.1 111.1





#47

Bromodichloromethane

Concen: 48.285 ug/l

RT: 6.41 min Scan# 586

Delta R.T. 0.03 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

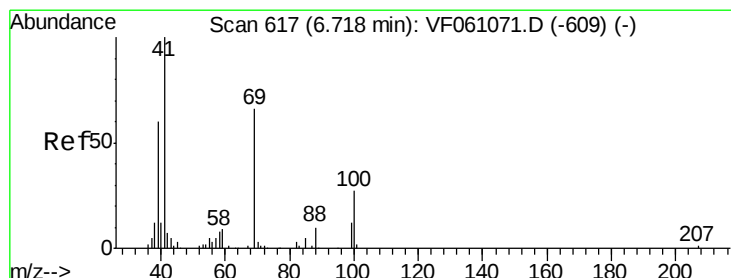
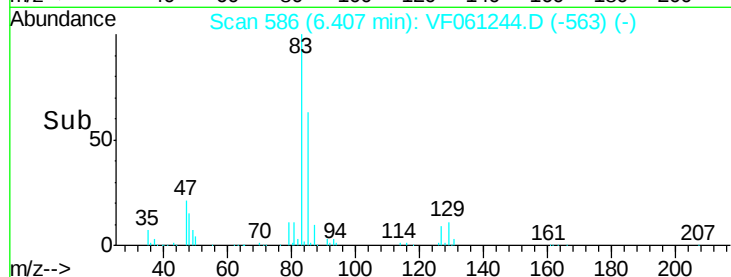
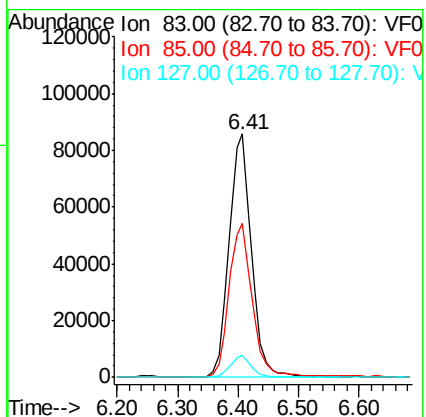
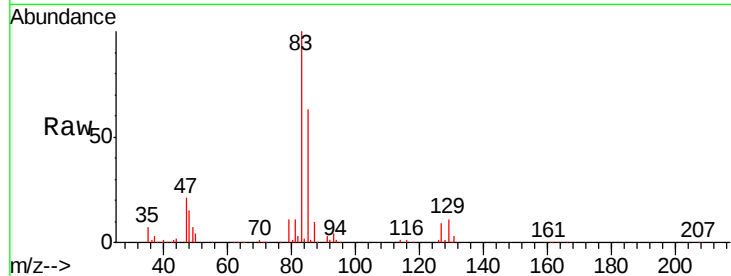
Tgt Ion: 83 Resp: 220720

Ion Ratio Lower Upper

83 100

85 63.2 52.2 78.4

127 9.0 6.1 9.1



#48

Methyl methacrylate

Concen: 51.835 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

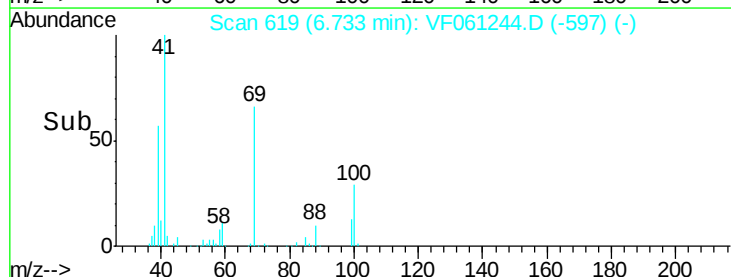
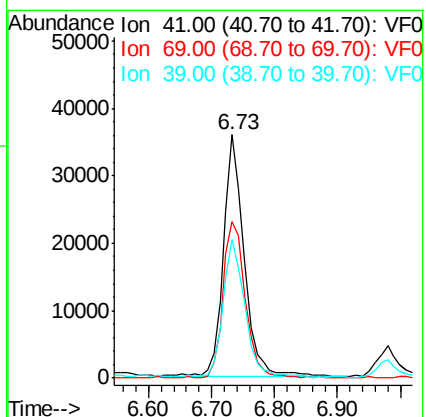
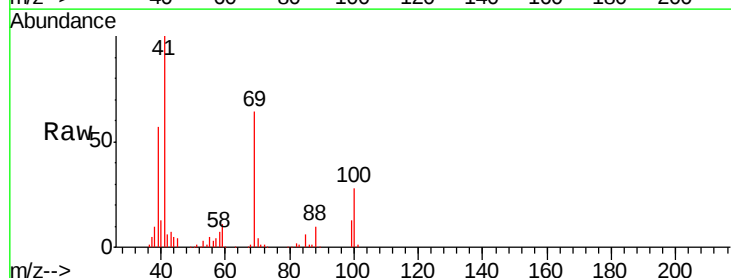
Tgt Ion: 41 Resp: 81006

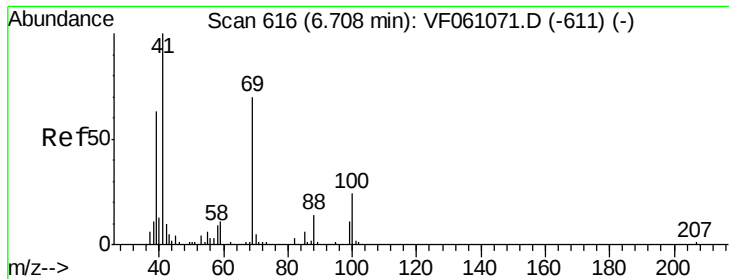
Ion Ratio Lower Upper

41 100

69 64.1 52.7 79.1

39 57.1 47.8 71.6





#49

1,4-Dioxane

Concen: 950.137 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.03 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

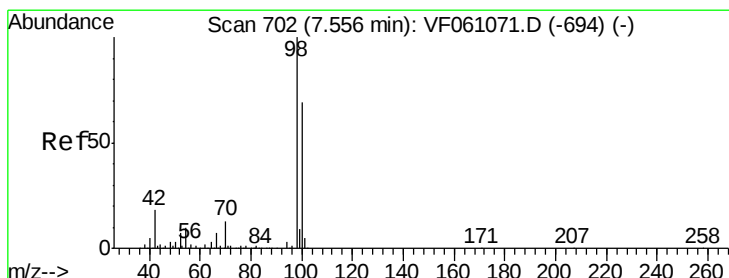
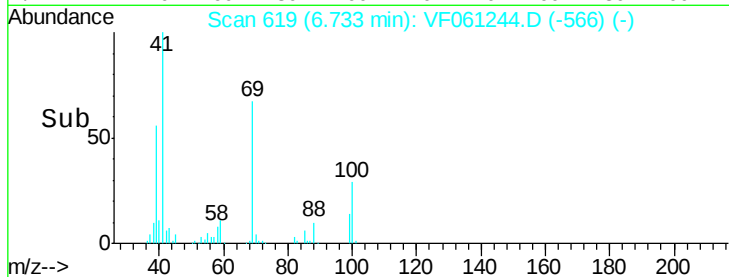
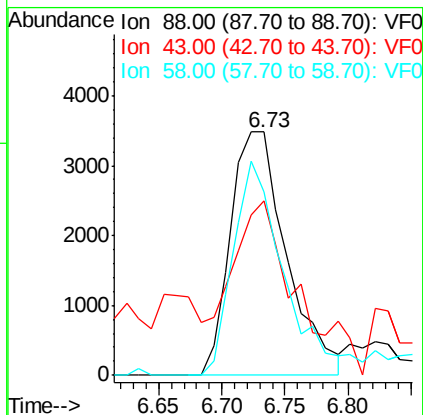
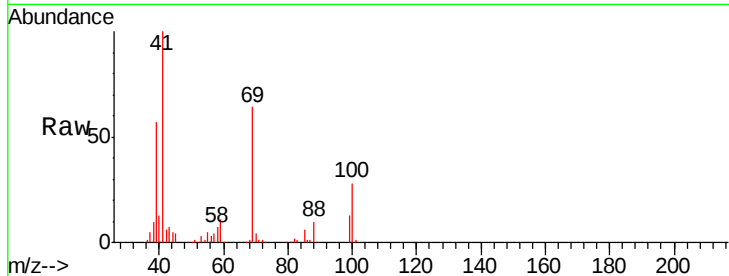
Tgt Ion: 88 Resp: 10774

Ion Ratio Lower Upper

88 100

43 71.6 33.3 49.9#

58 75.2 53.2 79.8



#50

Toluene-d8

Concen: 50.481 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF061244.D

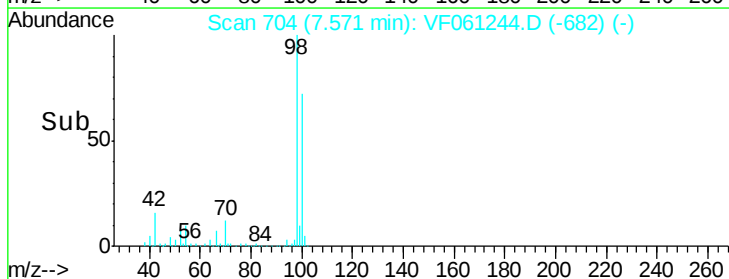
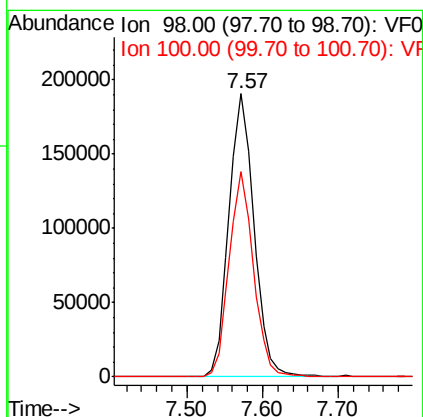
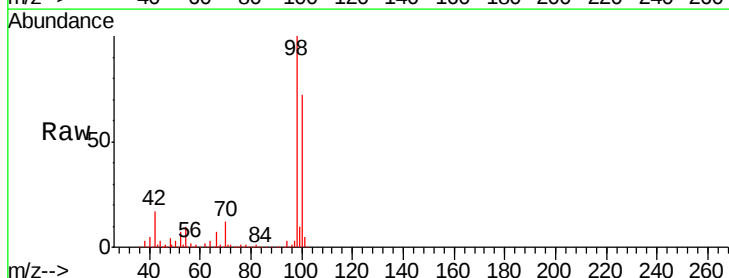
Acq: 28 Dec 2018 19:10

Tgt Ion: 98 Resp: 440154

Ion Ratio Lower Upper

98 100

100 72.4 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 262.077 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

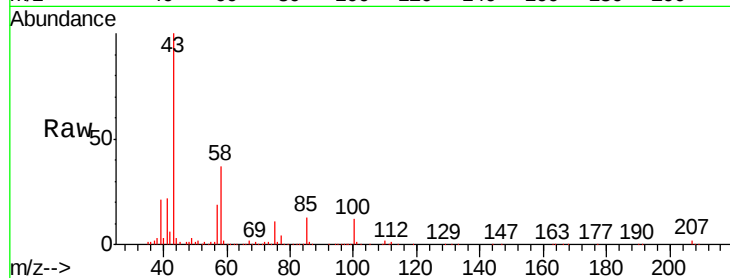
VSTDCCC050EC

Tgt Ion: 43 Resp: 402359

Ion Ratio Lower Upper

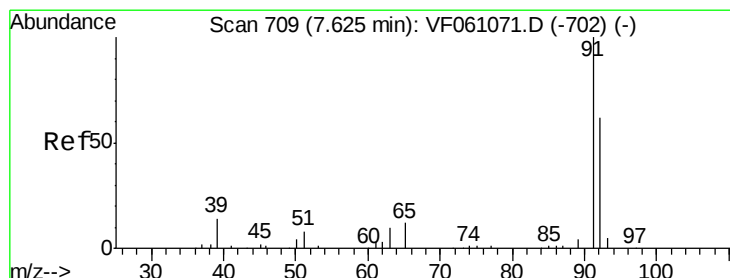
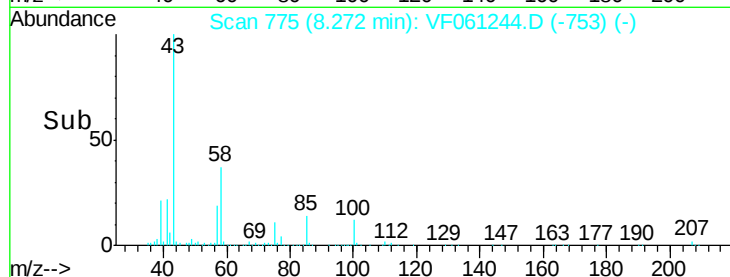
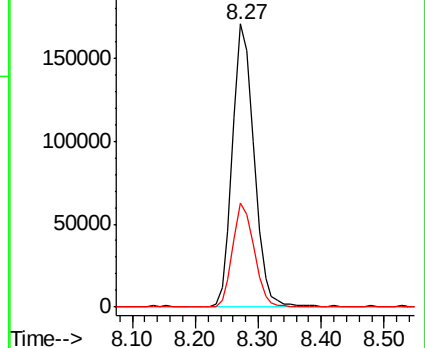
43 100

58 37.0 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 51.419 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF061244.D

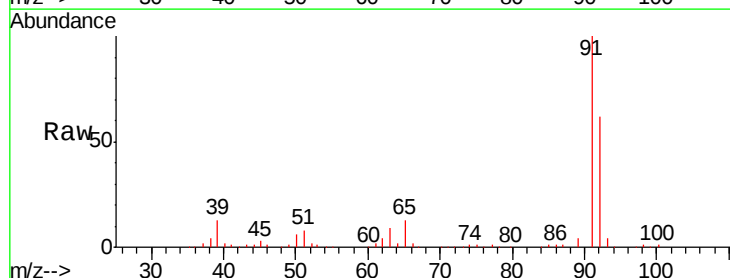
Acq: 28 Dec 2018 19:10

Tgt Ion: 92 Resp: 339354

Ion Ratio Lower Upper

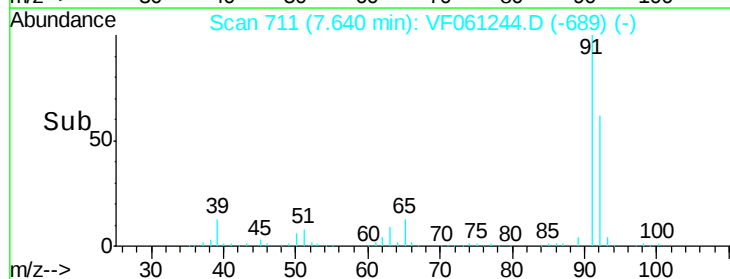
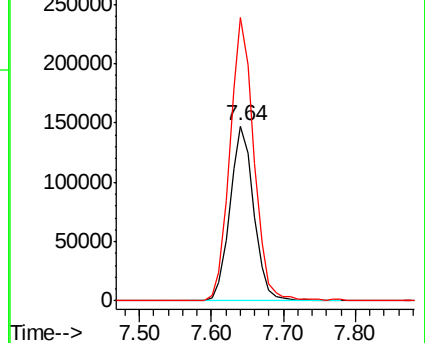
92 100

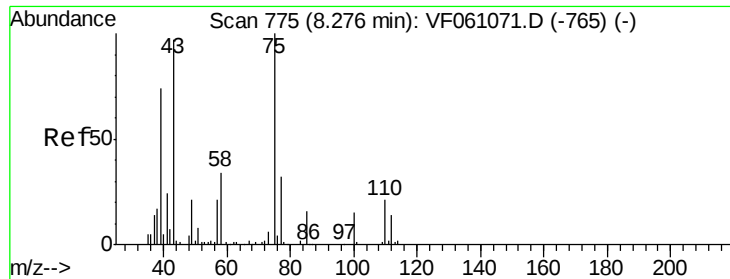
91 162.0 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

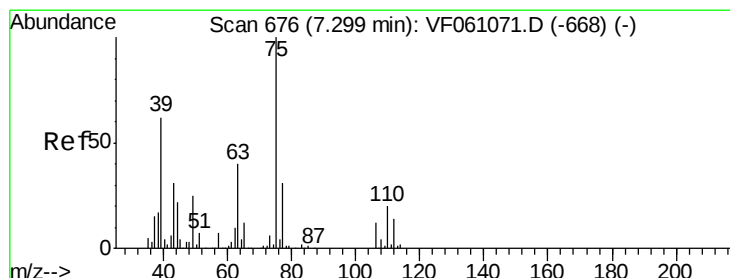
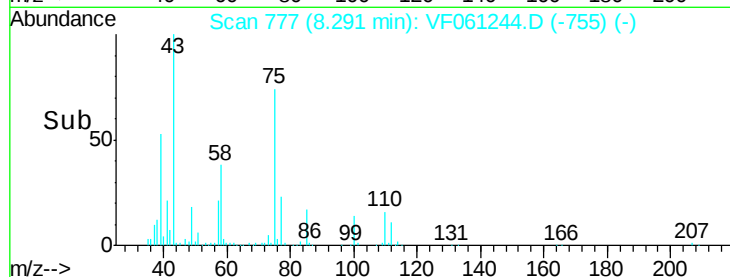
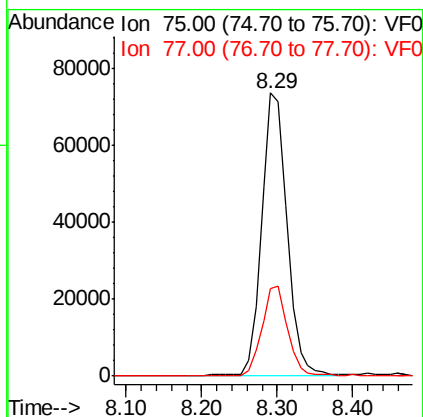
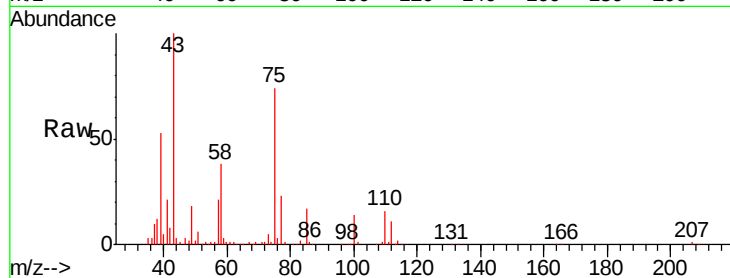




#53  
 t-1,3-Dichloropropene  
 Concen: 47.103 ug/l  
 RT: 8.29 min Scan# 777  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

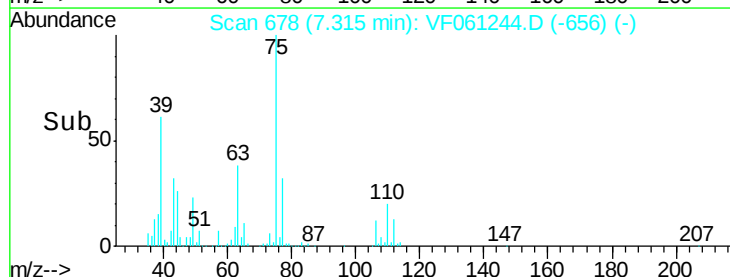
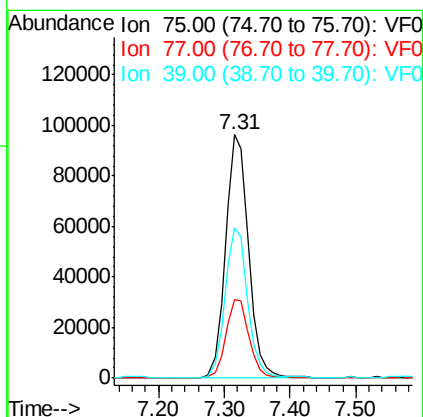
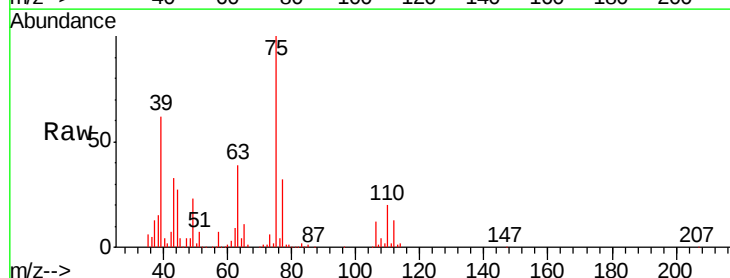
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

Tgt Ion: 75 Resp: 173696  
 Ion Ratio Lower Upper  
 75 100  
 77 30.8 25.8 38.8



#54  
 cis-1,3-Dichloropropene  
 Concen: 51.071 ug/l  
 RT: 7.31 min Scan# 678  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Tgt Ion: 75 Resp: 236370  
 Ion Ratio Lower Upper  
 75 100  
 77 32.5 25.0 37.4  
 39 61.6 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 52.112 ug/l

RT: 8.51 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 97 Resp: 103104

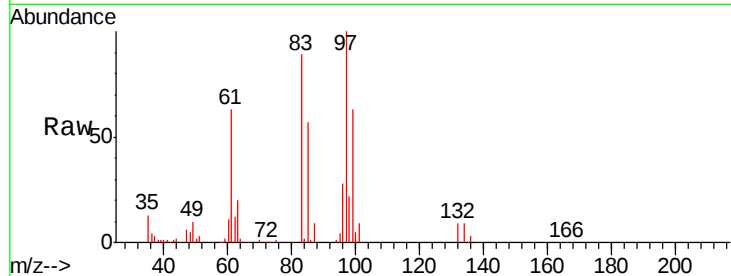
Ion Ratio Lower Upper

97 100

83 88.8 75.0 112.4

85 57.4 47.5 71.3

99 62.9 51.9 77.9

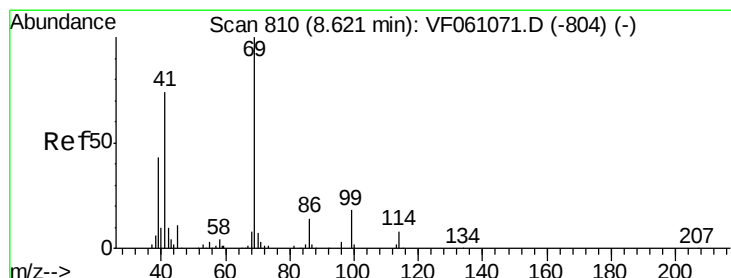
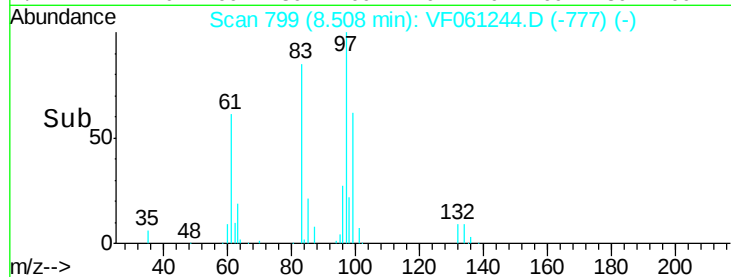
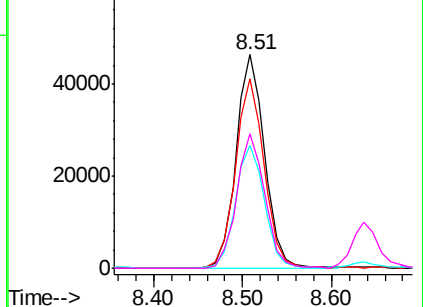


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 53.954 ug/l

RT: 8.64 min Scan# 812

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

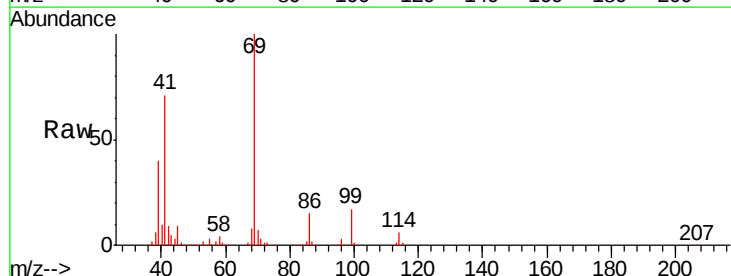
Tgt Ion: 69 Resp: 115509

Ion Ratio Lower Upper

69 100

41 70.5 59.7 89.5

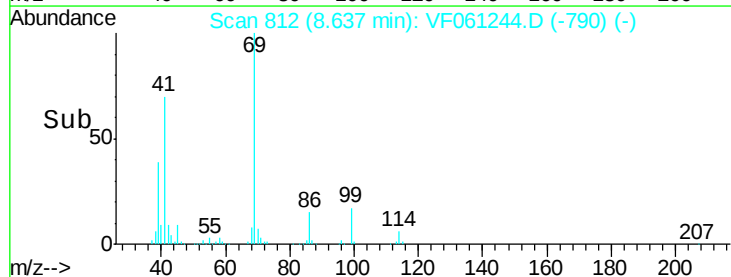
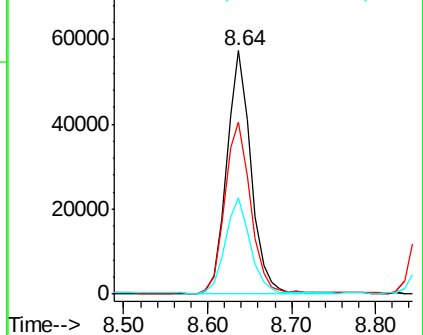
39 39.8 35.0 52.6

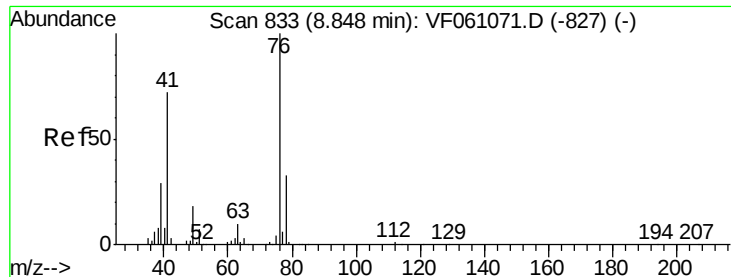


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 51.866 ug/l

RT: 8.87 min Scan# 836

Delta R.T. 0.03 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

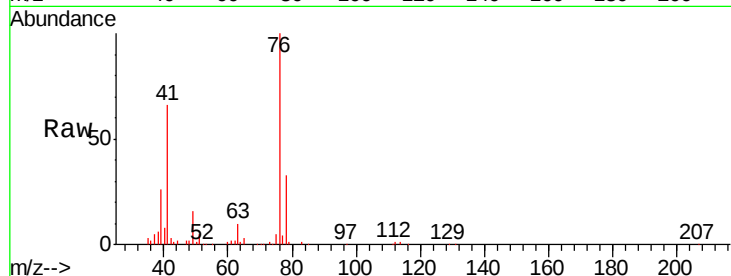
VSTDCCC050EC

Tgt Ion: 76 Resp: 185594

Ion Ratio Lower Upper

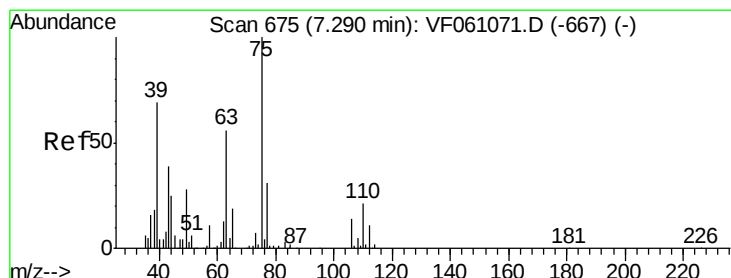
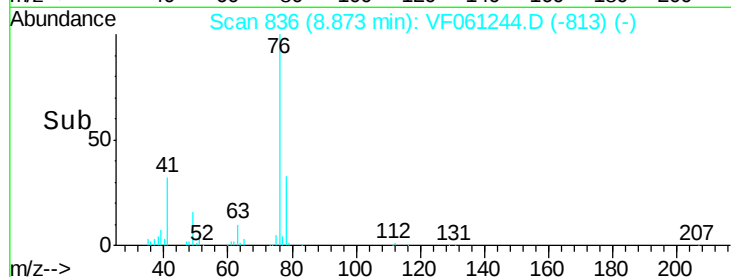
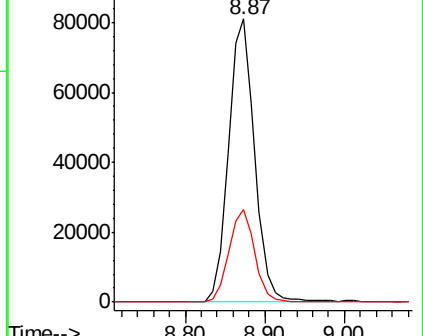
76 100

78 32.9 26.5 39.7



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 211.464 ug/l

RT: 7.31 min Scan# 678

Delta R.T. 0.03 min

Lab File: VF061244.D

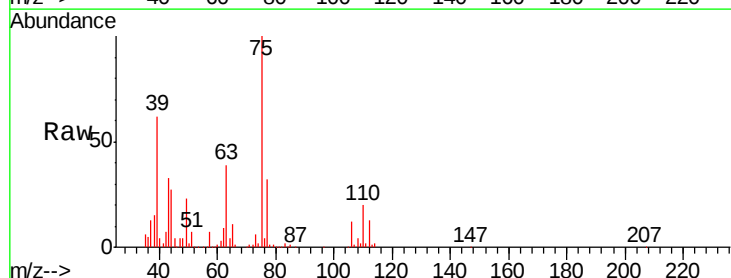
Acq: 28 Dec 2018 19:10

Tgt Ion: 63 Resp: 86948

Ion Ratio Lower Upper

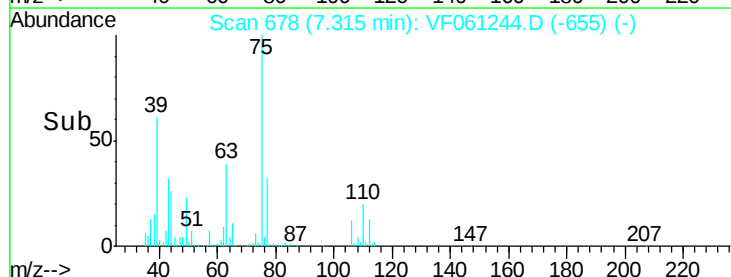
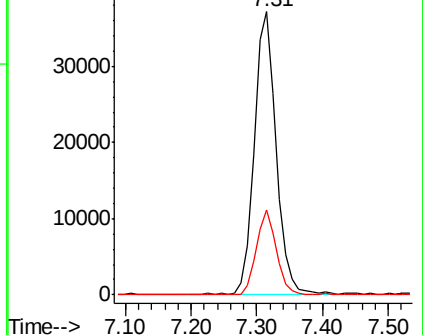
63 100

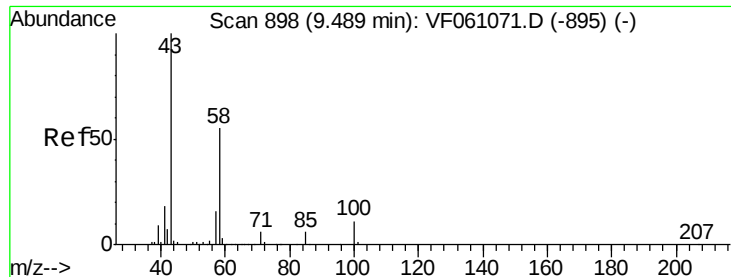
106 29.9 19.8 29.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

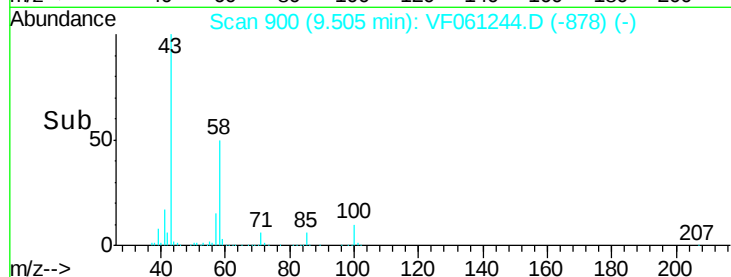
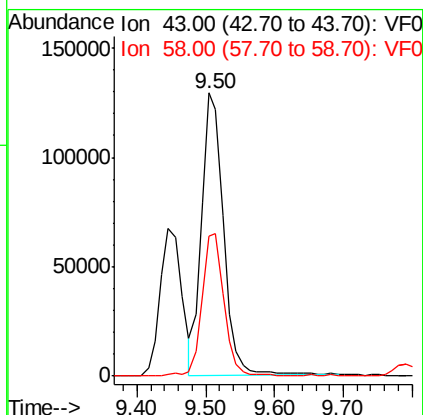
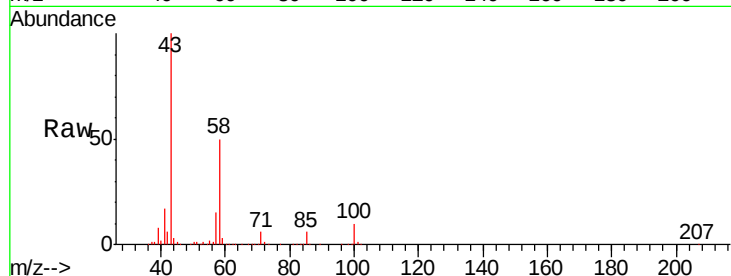




#59  
2-Hexanone  
Concen: 257.815 ug/l  
RT: 9.50 min Scan# 900  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

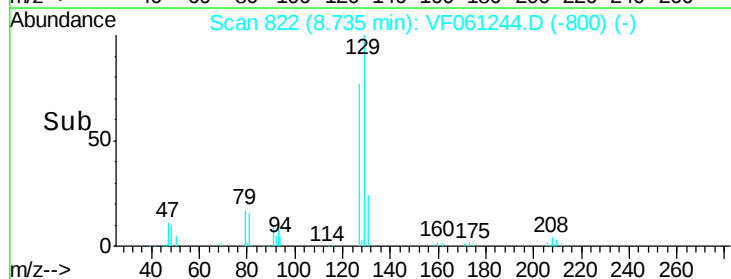
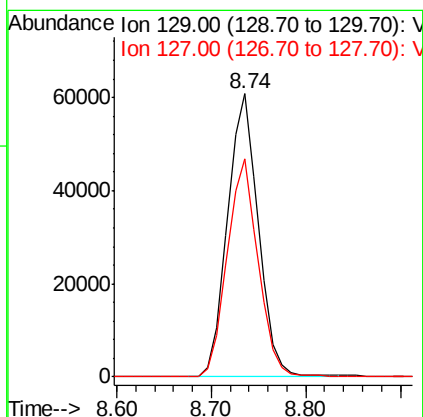
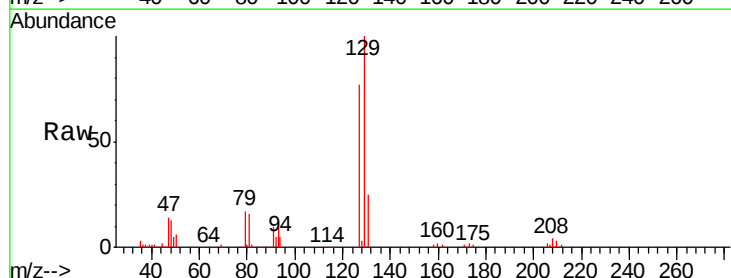
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

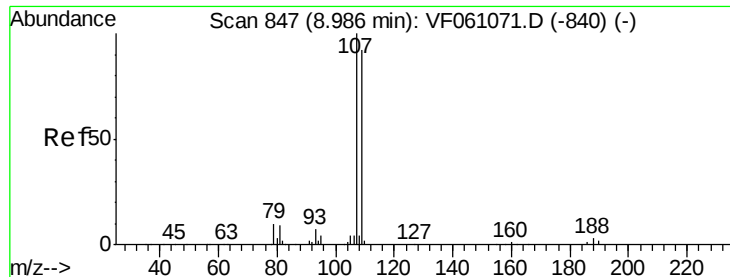
Tgt Ion: 43 Resp: 286244  
Ion Ratio Lower Upper  
43 100  
58 49.7 25.1 75.2



#60  
Dibromochloromethane  
Concen: 48.405 ug/l  
RT: 8.74 min Scan# 822  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion: 129 Resp: 137282  
Ion Ratio Lower Upper  
129 100  
127 77.1 36.8 110.3





#61

1,2-Dibromoethane

Concen: 51.932 ug/l

RT: 9.00 min Scan# 849

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

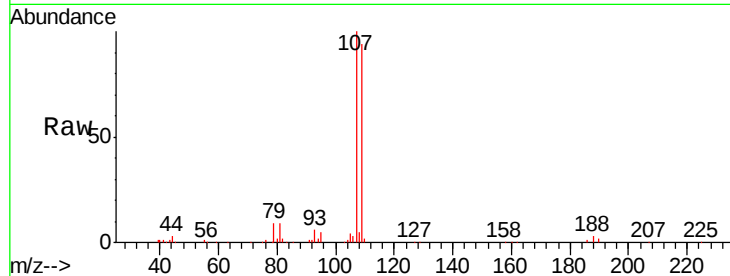
VSTDCCC050EC

Tgt Ion: 107 Resp: 109733

Ion Ratio Lower Upper

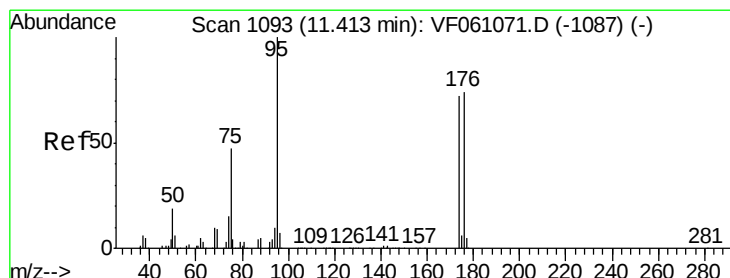
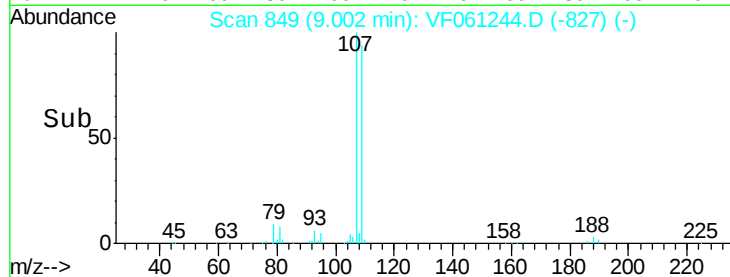
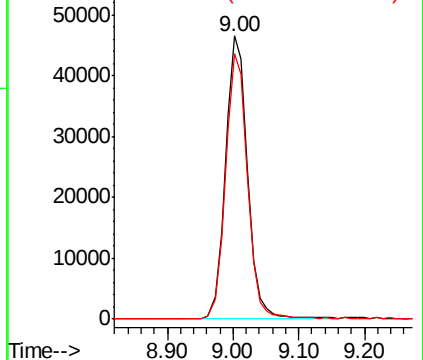
107 100

109 94.0 73.7 110.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 47.421 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

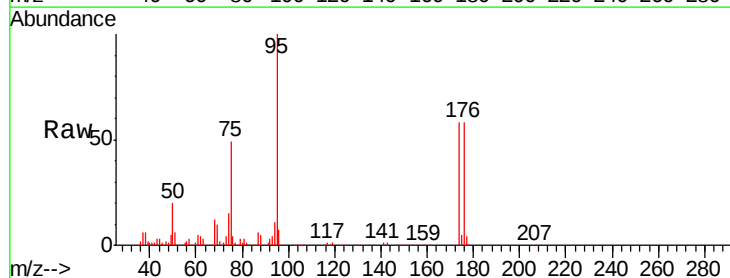
Tgt Ion: 95 Resp: 190617

Ion Ratio Lower Upper

95 100

174 58.2 0.0 143.8

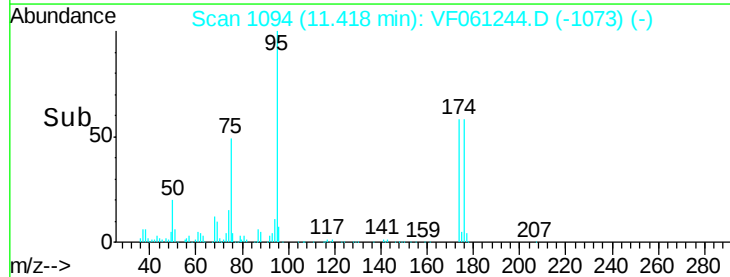
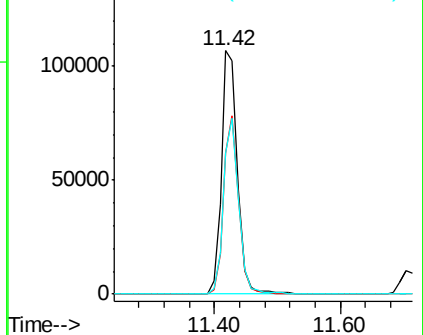
176 57.9 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

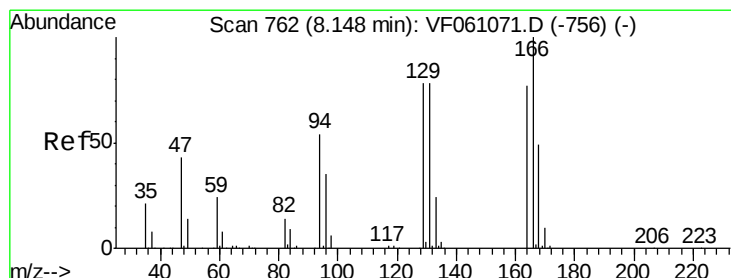
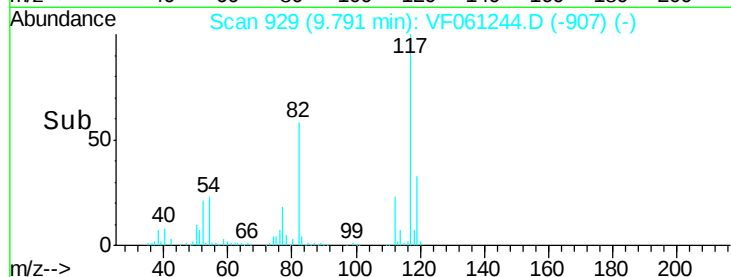
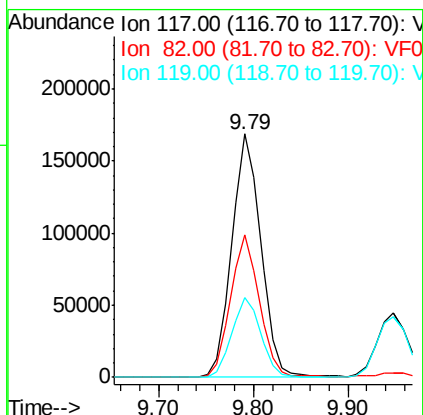
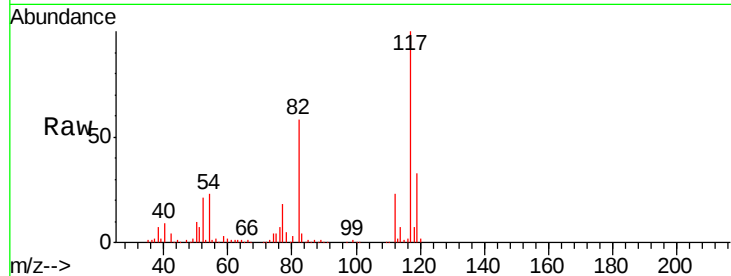




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.79 min Scan# 929  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

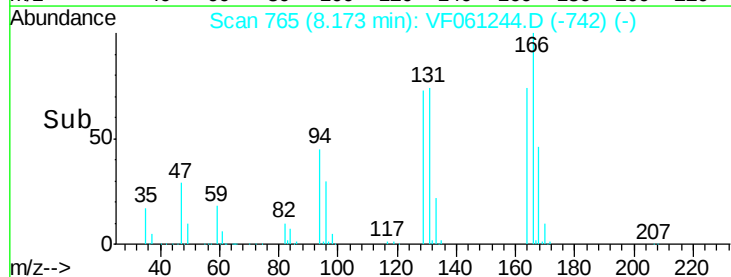
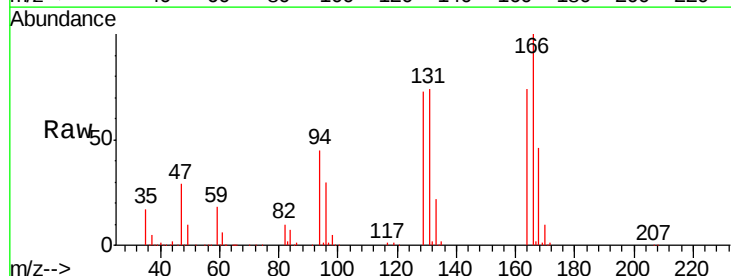
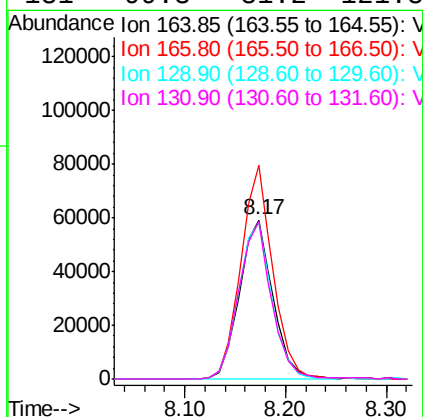
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

Tgt Ion:117 Resp: 360580  
Ion Ratio Lower Upper  
117 100  
82 58.4 45.0 67.4  
119 32.7 24.8 37.2



#64  
Tetrachloroethene  
Concen: 48.986 ug/l  
RT: 8.17 min Scan# 765  
Delta R.T. 0.03 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion:164 Resp: 135877  
Ion Ratio Lower Upper  
164 100  
166 134.4 104.0 156.0  
129 98.3 81.1 121.7  
131 99.3 81.2 121.8





#65

Chlorobenzene

Concen: 48.866 ug/l

RT: 9.81 min Scan# 931

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

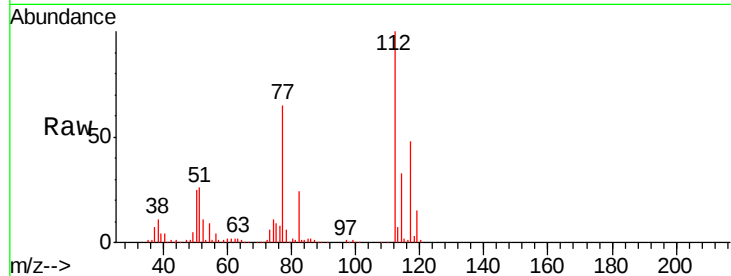
VSTDCCC050EC

Tgt Ion:112 Resp: 364004

Ion Ratio Lower Upper

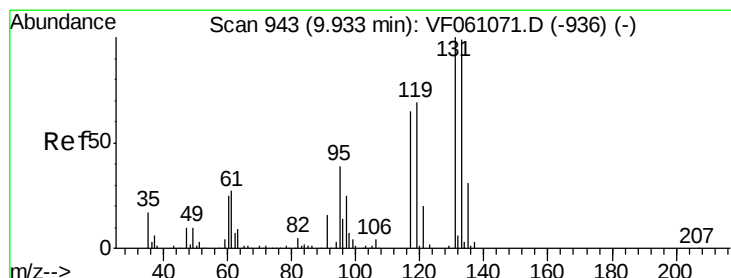
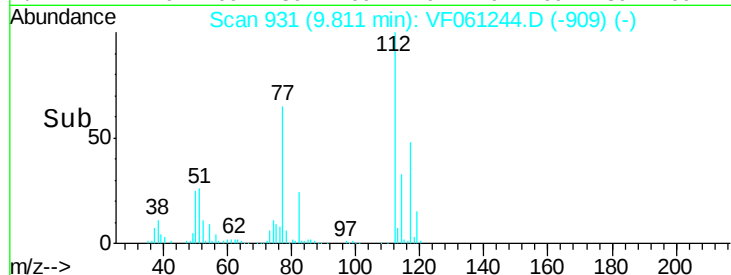
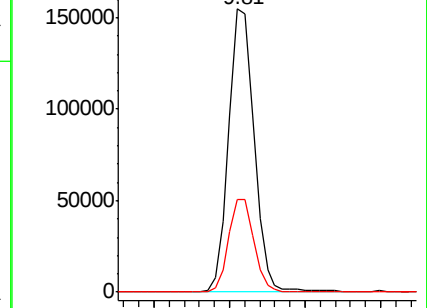
112 100

114 32.9 27.8 41.6



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: 46.699 ug/l

RT: 9.95 min Scan# 945

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

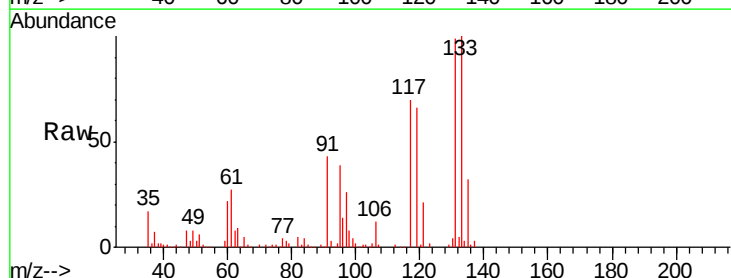
Tgt Ion:131 Resp: 142157

Ion Ratio Lower Upper

131 100

133 100.7 49.5 148.7

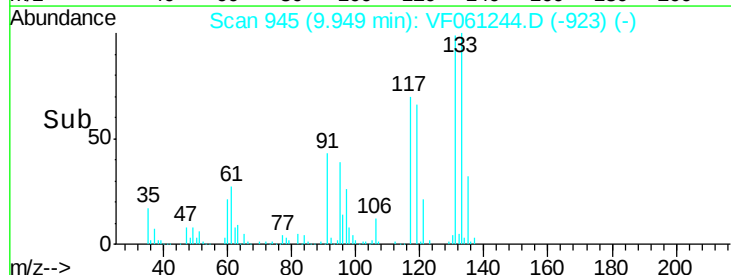
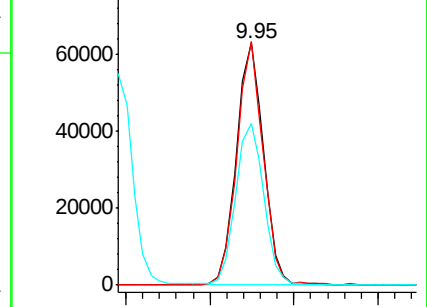
119 66.8 34.5 103.5

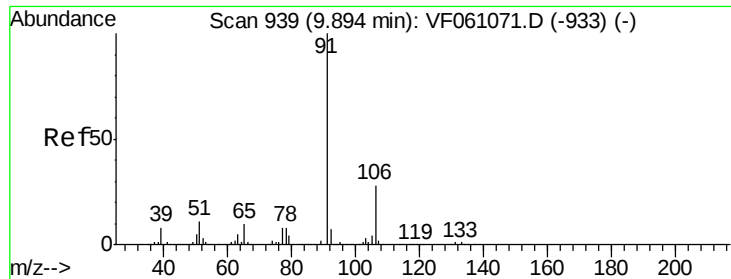


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

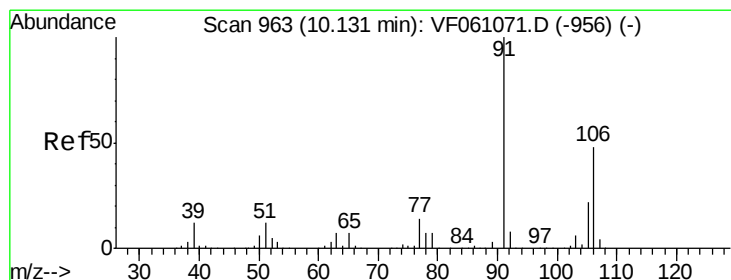
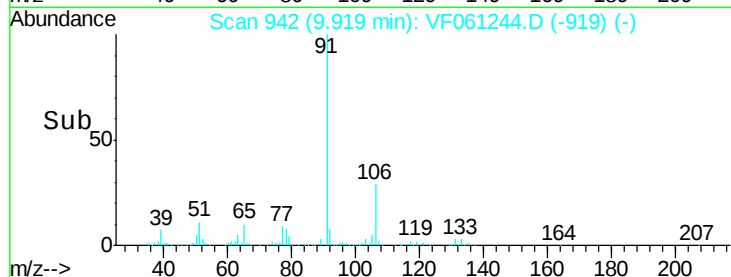
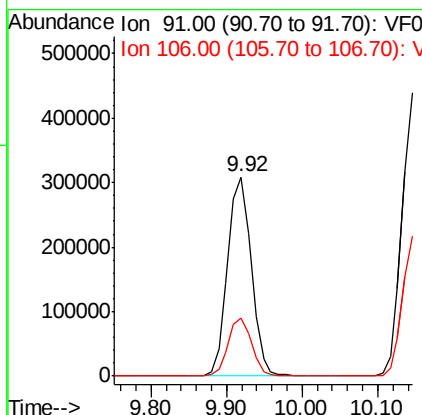
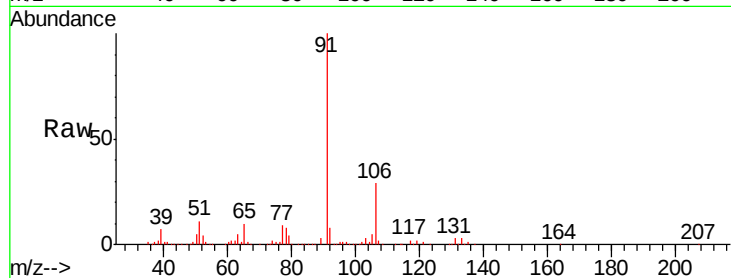




#67  
Ethyl Benzene  
Concen: 49.690 ug/l  
RT: 9.92 min Scan# 942  
Delta R.T. 0.03 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

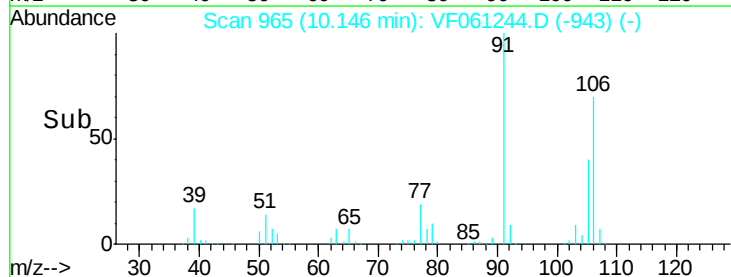
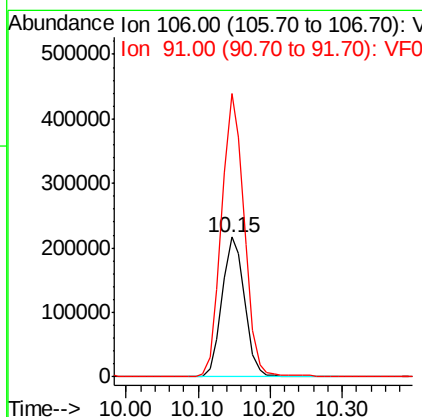
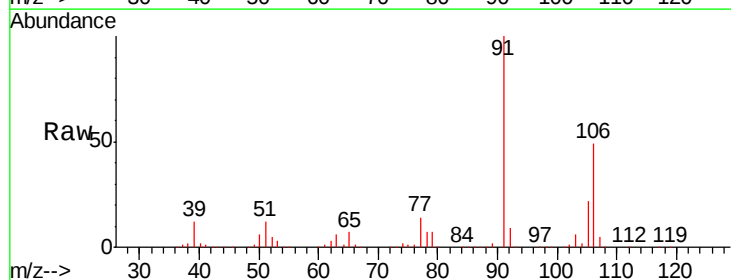
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

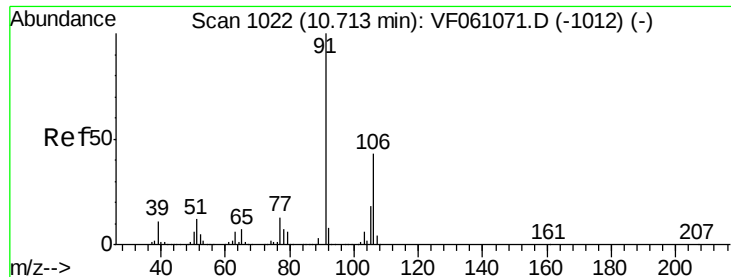
Tgt Ion: 91 Resp: 674334  
Ion Ratio Lower Upper  
91 100  
106 29.4 22.5 33.7



#68  
m/p-Xylenes  
Concen: 98.429 ug/l  
RT: 10.15 min Scan# 965  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion: 106 Resp: 470088  
Ion Ratio Lower Upper  
106 100  
91 202.5 168.2 252.2

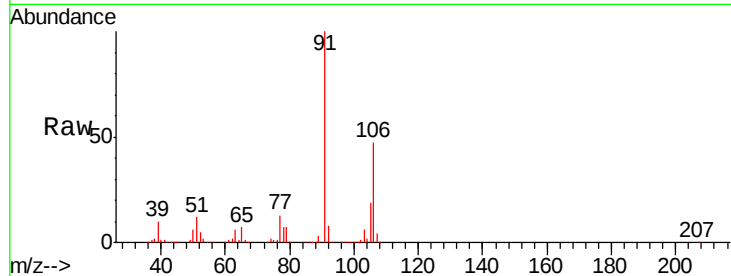




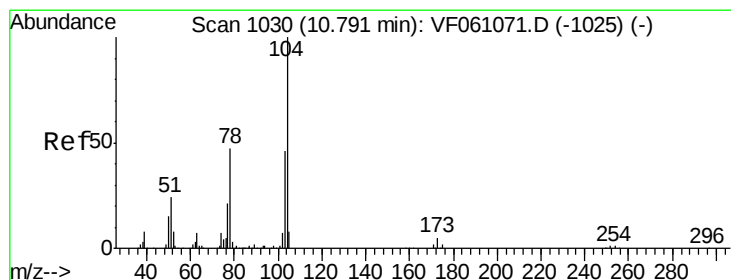
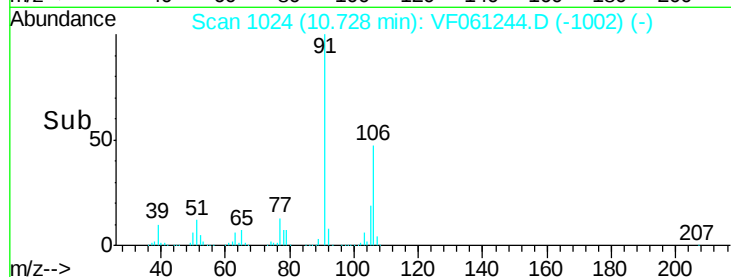
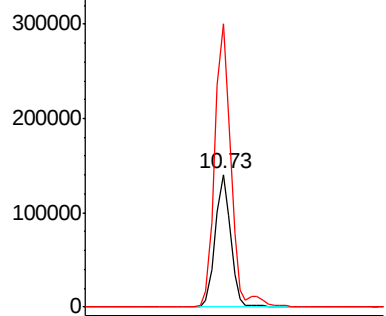
#69  
o-Xylene  
Concen: 49.266 ug/l  
RT: 10.73 min Scan# 1024  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

Tgt Ion:106 Resp: 260954  
Ion Ratio Lower Upper  
106 100  
91 213.6 115.9 347.7

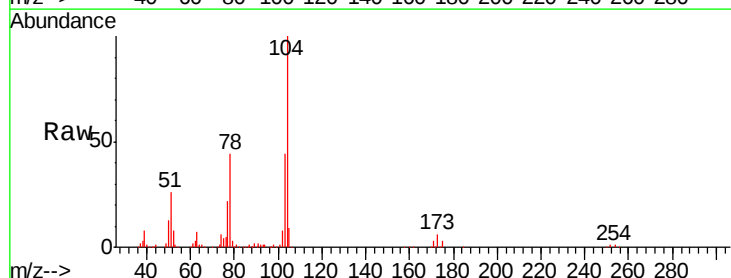


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VF0

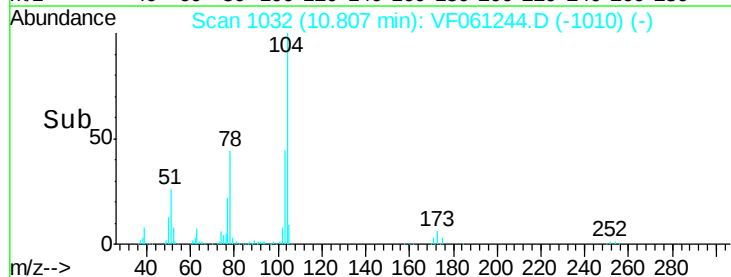
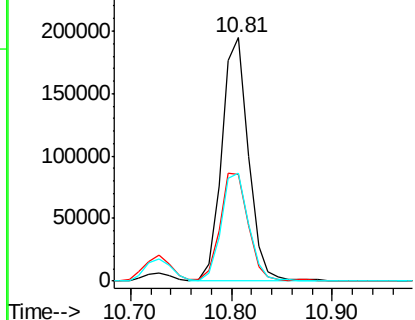


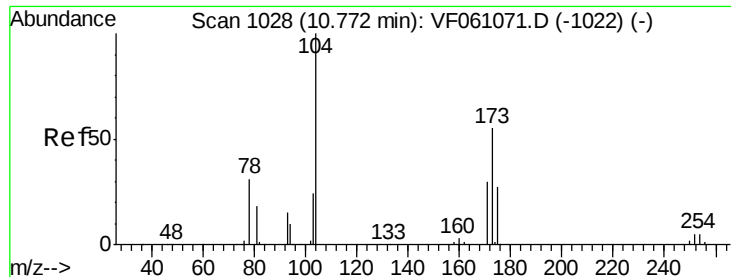
#70  
Styrene  
Concen: 55.766 ug/l  
RT: 10.81 min Scan# 1032  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion:104 Resp: 356299  
Ion Ratio Lower Upper  
104 100  
78 43.9 38.4 57.6  
103 44.4 37.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VF0  
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 47.825 ug/l

RT: 10.79 min Scan# 1030

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

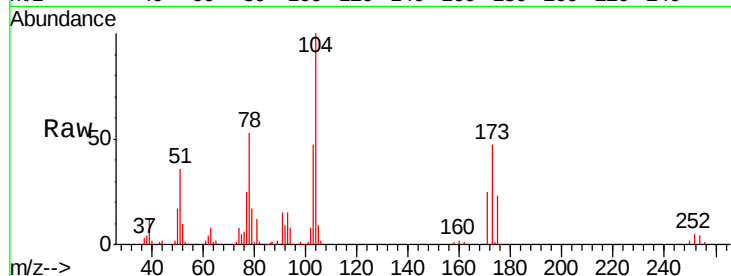
Tgt Ion:173 Resp: 67355

Ion Ratio Lower Upper

173 100

175 49.7 24.8 74.4

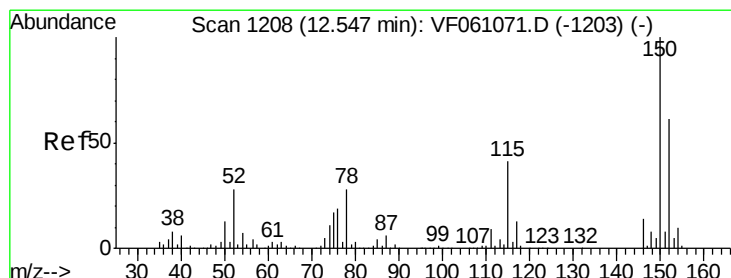
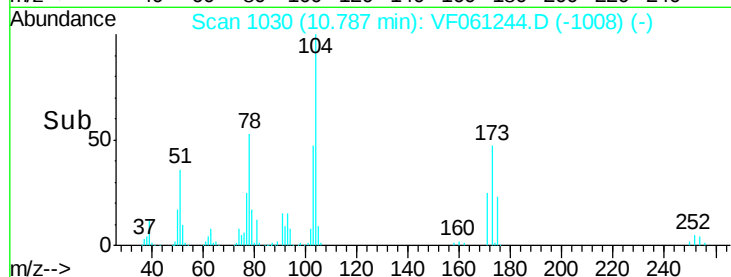
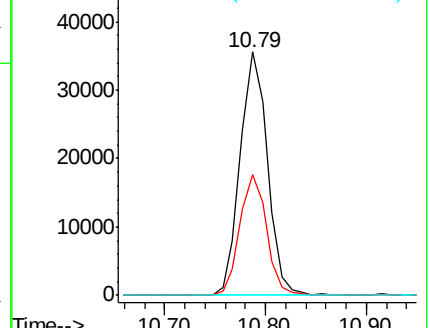
254 0.0 0.0 0.0



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: 12.56 min Scan# 1210

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

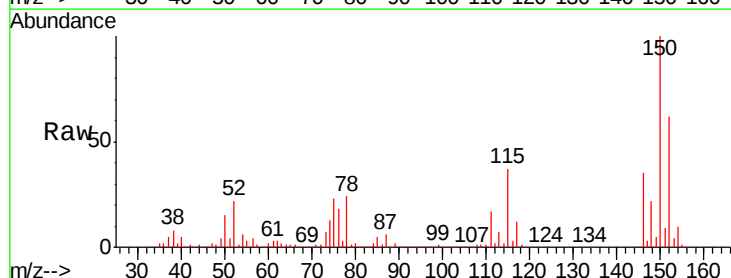
Tgt Ion:152 Resp: 164366

Ion Ratio Lower Upper

152 100

115 59.2 33.3 99.9

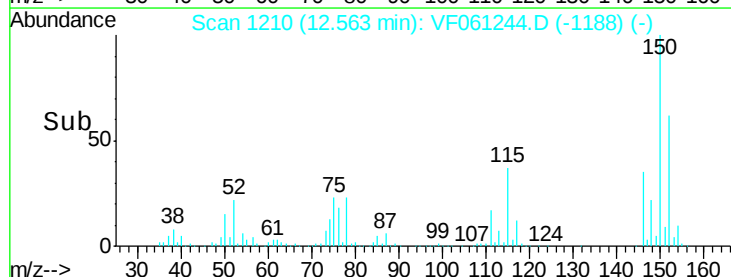
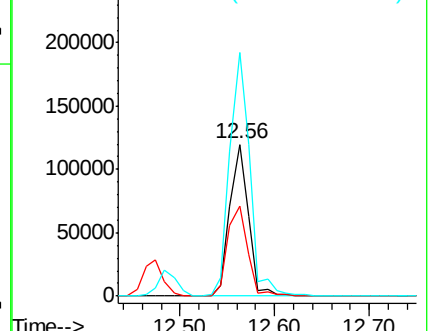
150 160.6 0.0 328.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 50.775 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

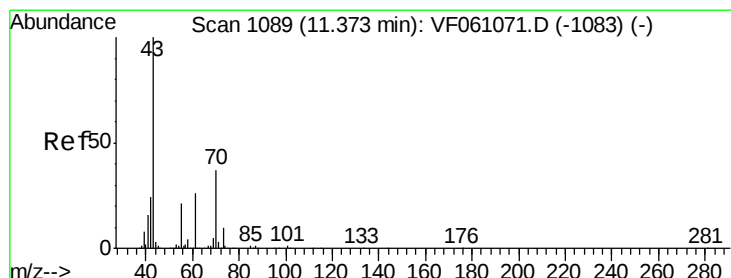
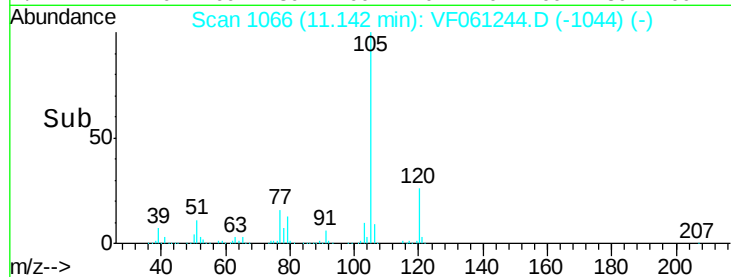
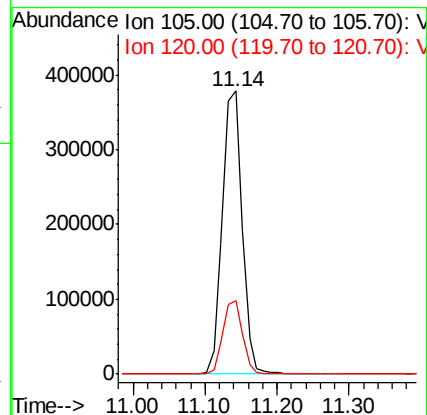
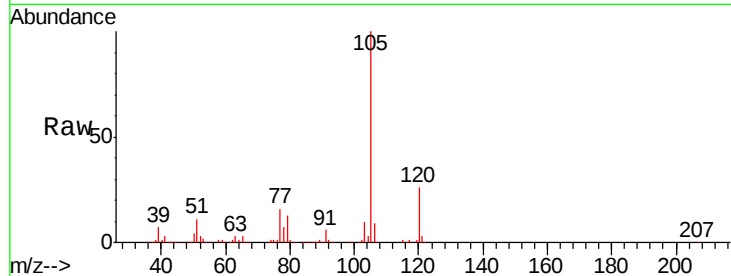
VSTDCCC050EC

Tgt Ion: 105 Resp: 719195

Ion Ratio Lower Upper

105 100

120 26.2 13.0 39.0



#74

N-ethyl acetate

Concen: 58.248 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Tgt Ion: 43 Resp: 183172

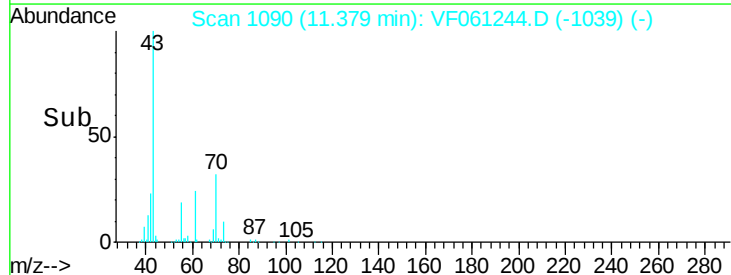
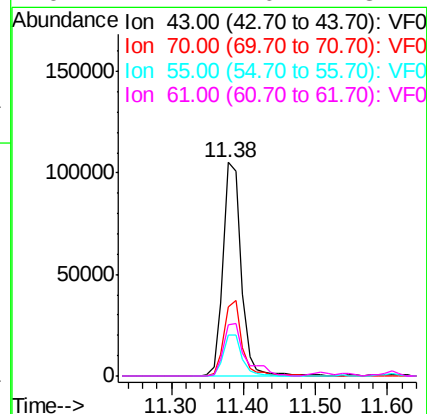
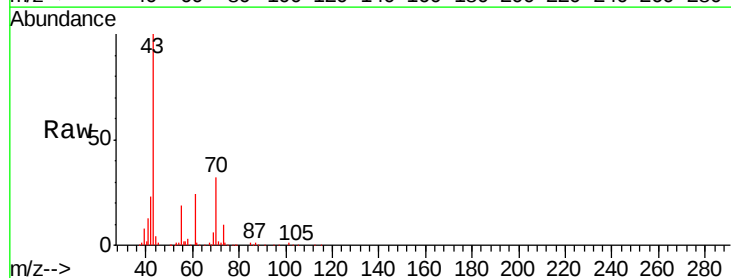
Ion Ratio Lower Upper

43 100

70 32.4 29.2 43.8

55 19.3 16.5 24.7

61 24.2 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 52.367 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

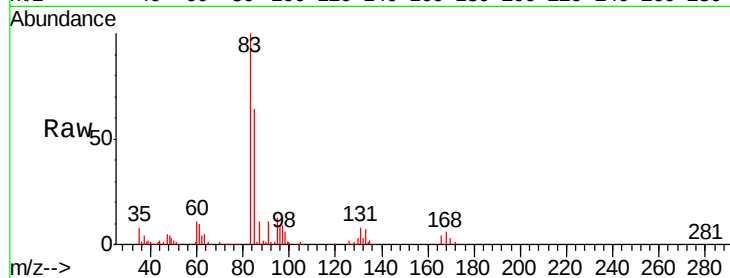
Tgt Ion: 83 Resp: 123104

Ion Ratio Lower Upper

83 100

131 8.1 4.8 14.3

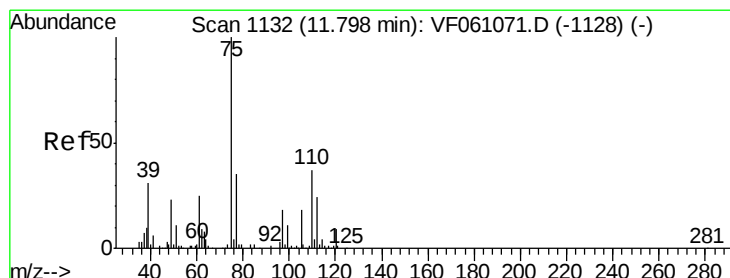
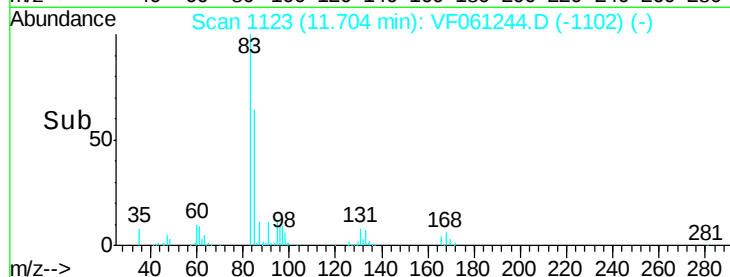
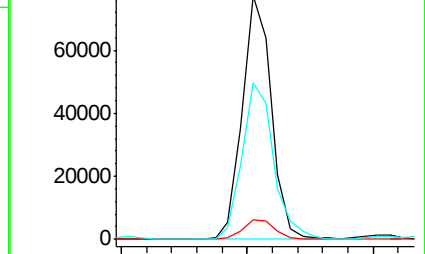
85 64.4 33.9 101.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 50.661 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.01 min

Lab File: VF061244.D

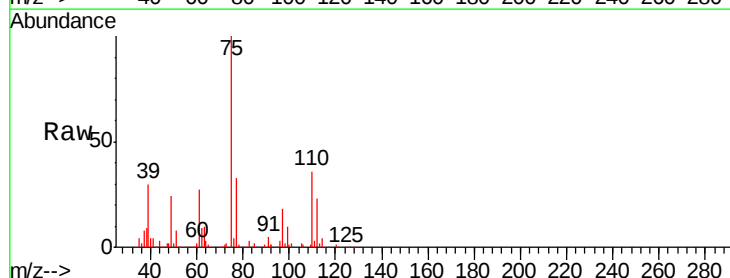
Acq: 28 Dec 2018 19:10

Tgt Ion: 75 Resp: 88629

Ion Ratio Lower Upper

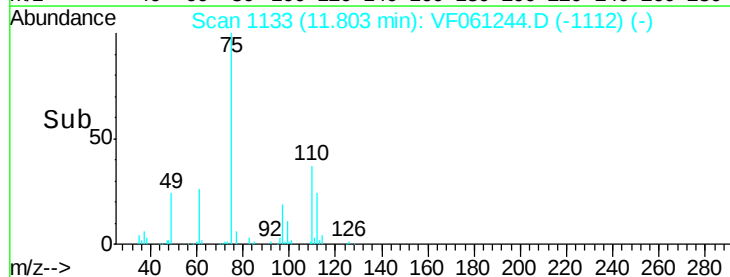
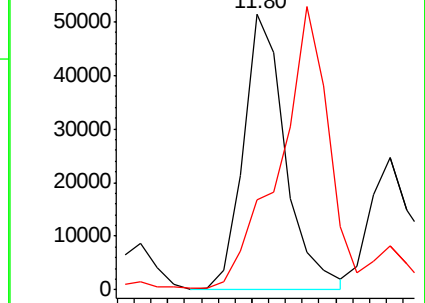
75 100

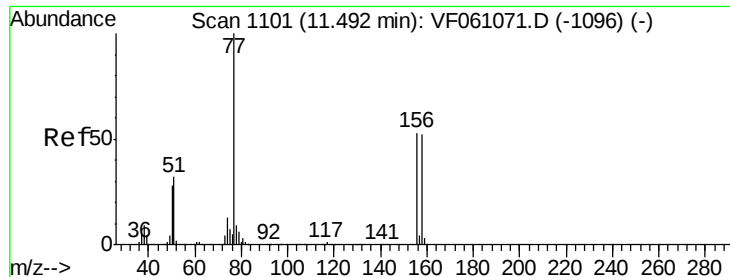
77 32.9 17.6 52.9



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 50.398 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

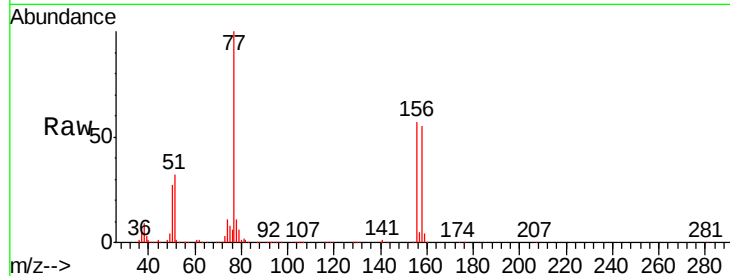
Tgt Ion:156 Resp: 153669

Ion Ratio Lower Upper

156 100

77 176.9 93.8 281.4

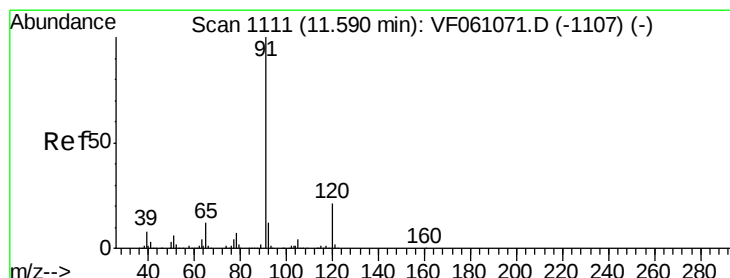
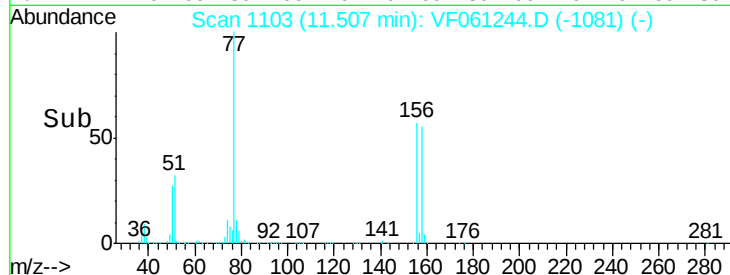
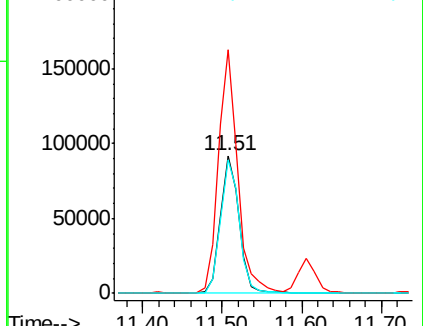
158 97.0 48.9 146.8



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: 52.529 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF061244.D

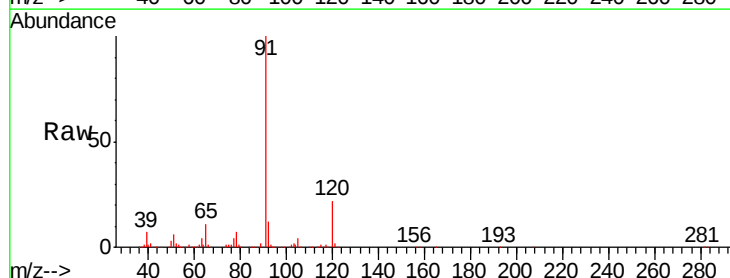
Acq: 28 Dec 2018 19:10

Tgt Ion: 91 Resp: 847636

Ion Ratio Lower Upper

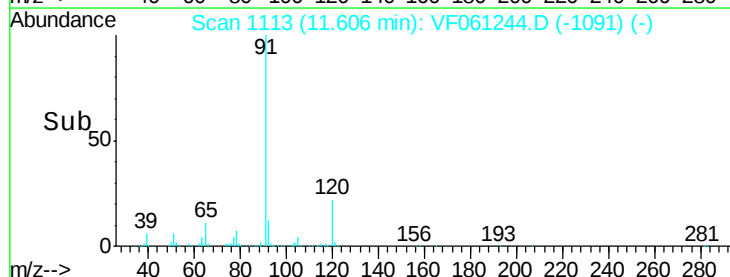
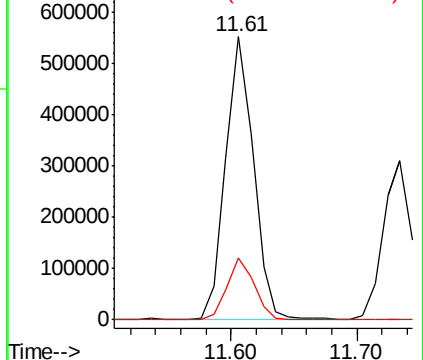
91 100

120 21.9 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 50.175 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

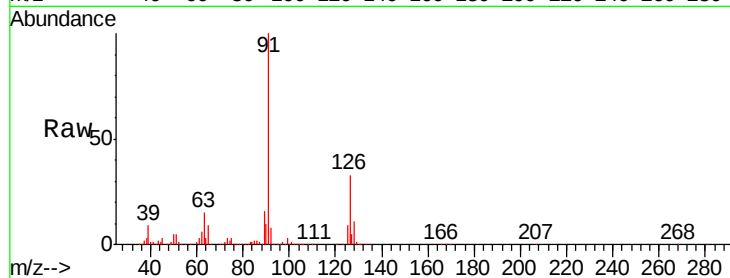
VSTDCCC050EC

Tgt Ion: 91 Resp: 487536

Ion Ratio Lower Upper

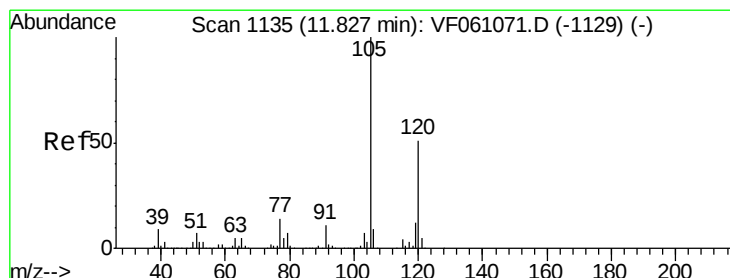
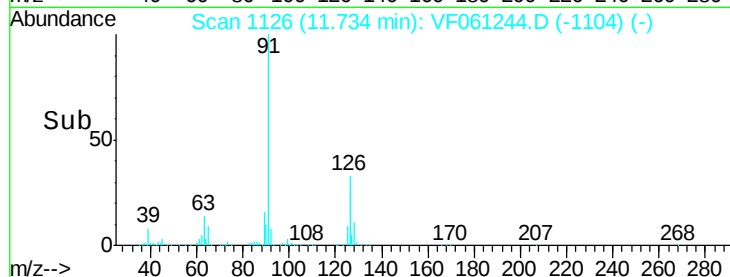
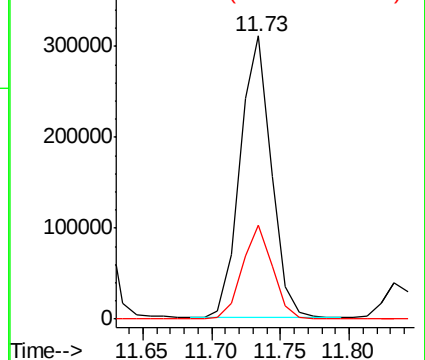
91 100

126 33.2 16.4 49.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 48.358 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VF061244.D

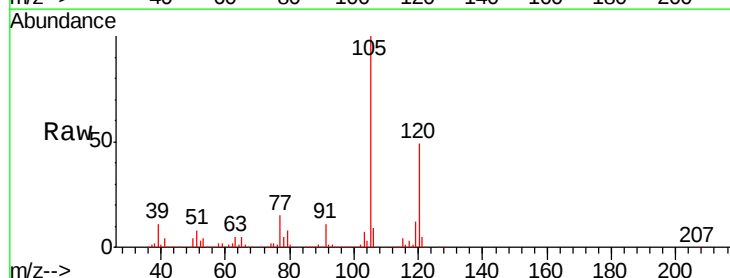
Acq: 28 Dec 2018 19:10

Tgt Ion: 105 Resp: 564013

Ion Ratio Lower Upper

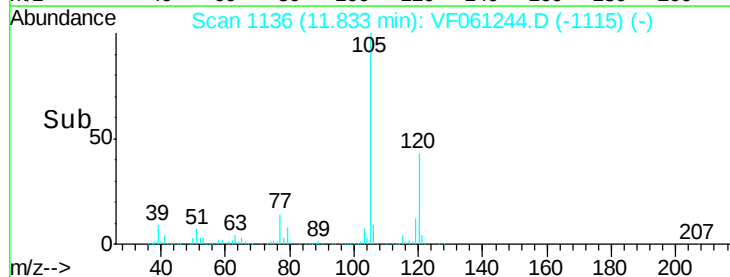
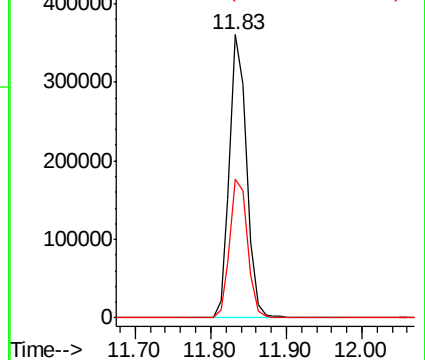
105 100

120 49.2 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 73.086 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.02 min

Lab File: VF061244.D

Acq: 28 Dec 2018 19:10

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

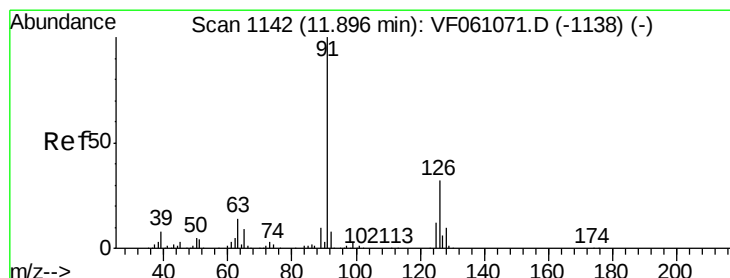
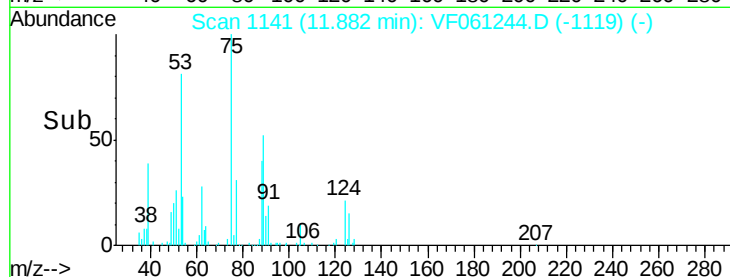
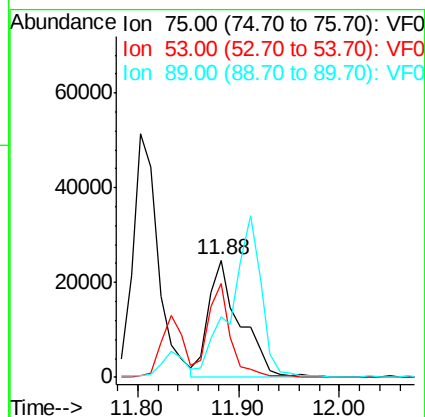
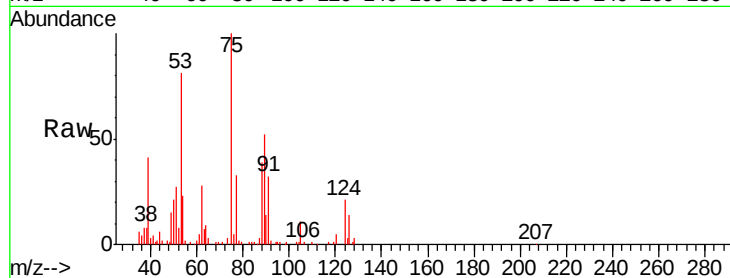
Tgt Ion: 75 Resp: 54943

Ion Ratio Lower Upper

75 100

53 80.6 74.1 111.1

89 52.2 42.6 64.0



#82

4-Chlorotoluene

Concen: 48.736 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VF061244.D

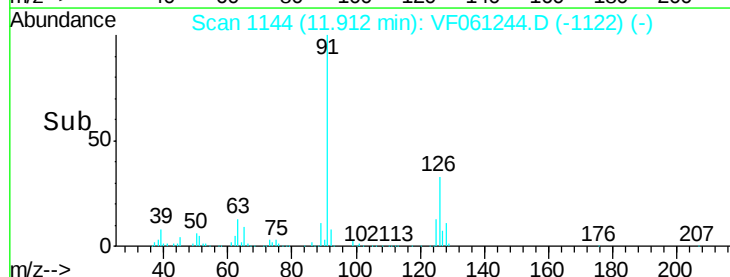
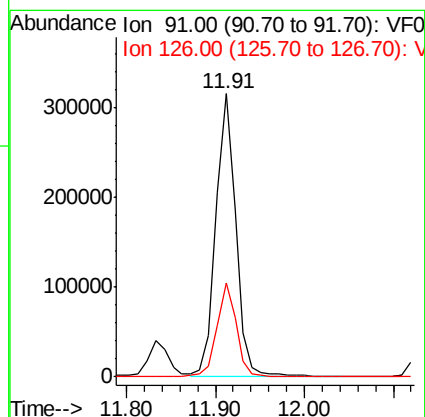
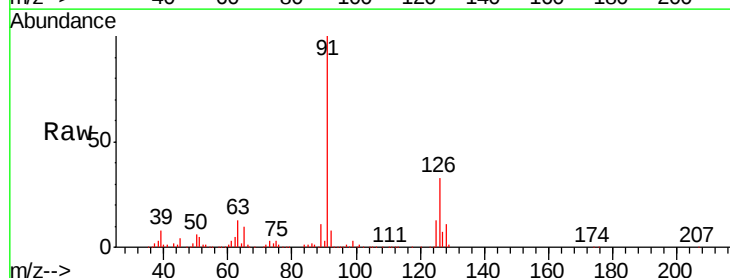
Acq: 28 Dec 2018 19:10

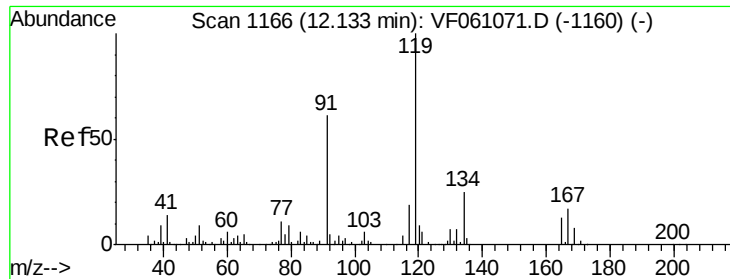
Tgt Ion: 91 Resp: 489876

Ion Ratio Lower Upper

91 100

126 33.1 16.0 47.9

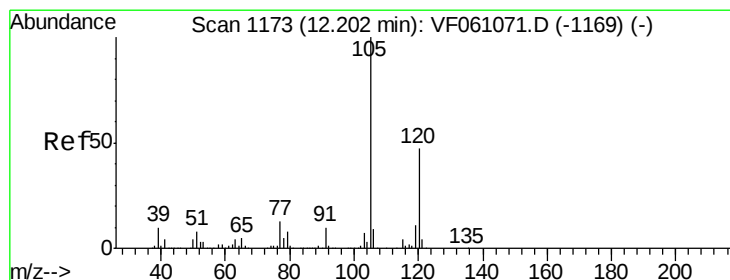
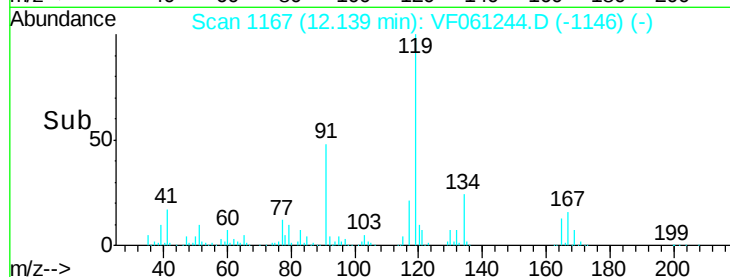
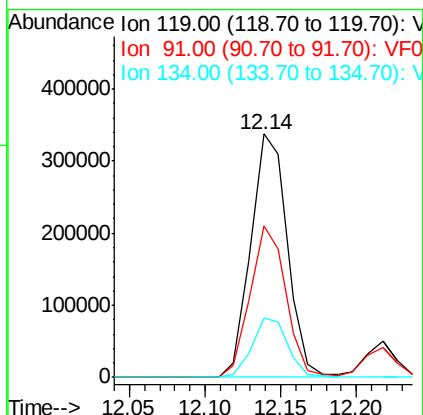
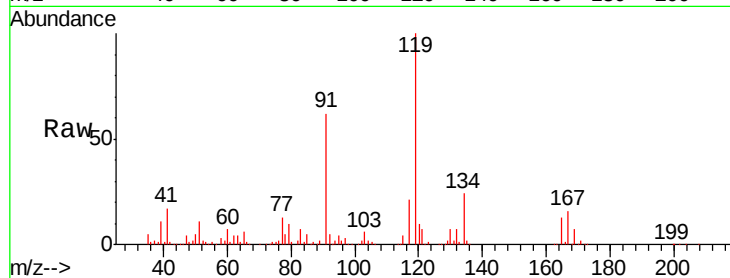




#83  
 tert-Butylbenzene  
 Concen: 47.492 ug/l  
 RT: 12.14 min Scan# 1167  
 Delta R.T. 0.01 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

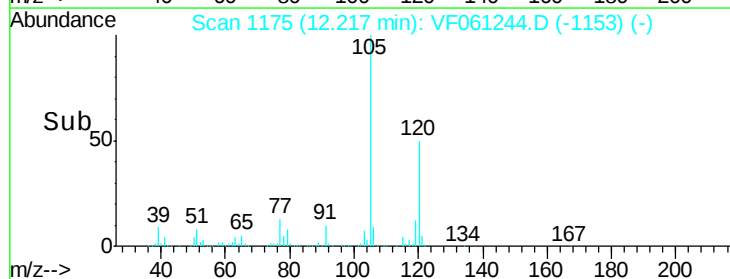
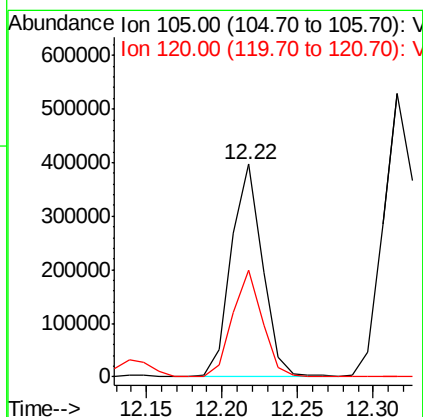
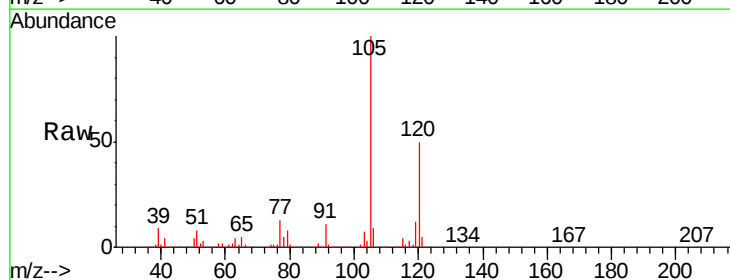
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

Tgt Ion:119 Resp: 569985  
 Ion Ratio Lower Upper  
 119 100  
 91 62.3 30.5 91.5  
 134 24.4 12.4 37.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 49.001 ug/l  
 RT: 12.22 min Scan# 1175  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Tgt Ion:105 Resp: 569917  
 Ion Ratio Lower Upper  
 105 100  
 120 49.9 23.6 71.0

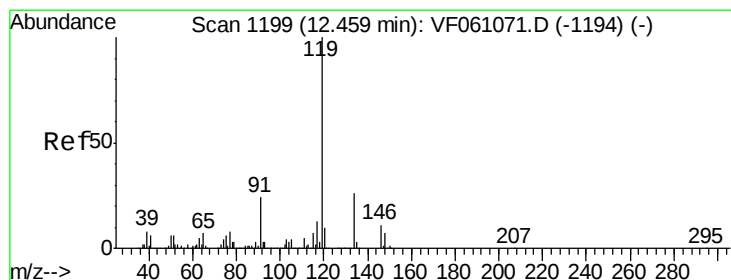
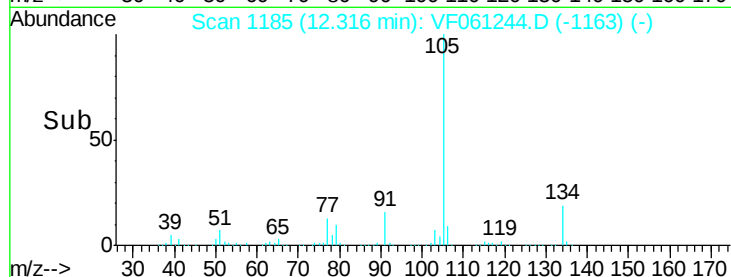
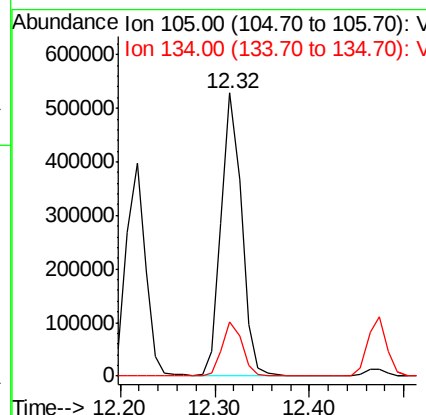
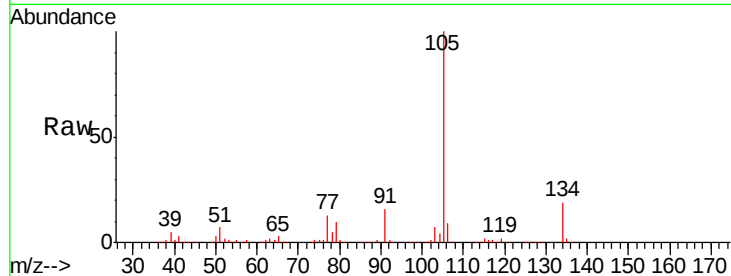




#85  
 sec-Butylbenzene  
 Concen: 51.015 ug/l  
 RT: 12.32 min Scan# 1185  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

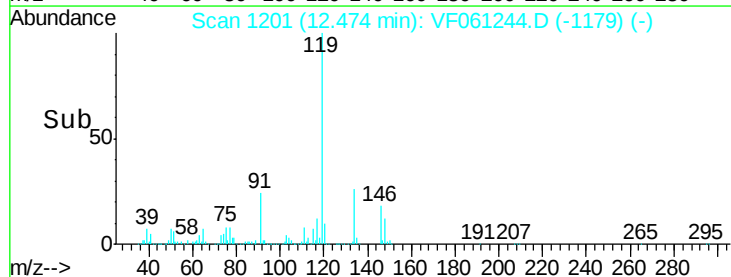
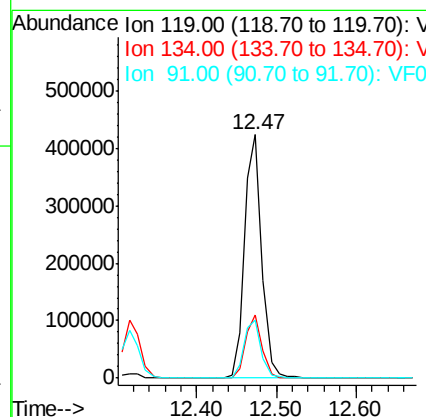
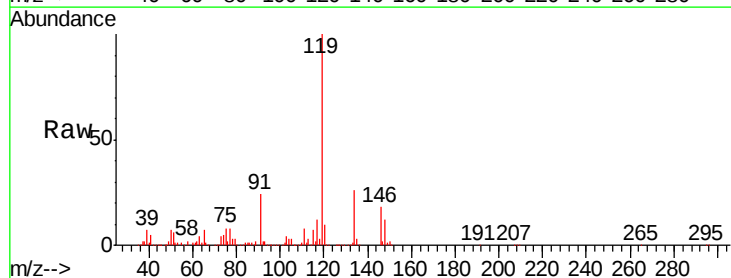
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

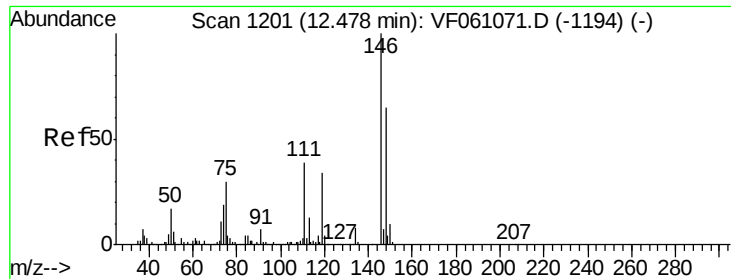
Tgt Ion:105 Resp: 799020  
 Ion Ratio Lower Upper  
 105 100  
 134 19.0 9.4 28.2



#86  
 p-Isopropyltoluene  
 Concen: 48.671 ug/l  
 RT: 12.47 min Scan# 1201  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Tgt Ion:119 Resp: 632746  
 Ion Ratio Lower Upper  
 119 100  
 134 26.2 12.8 38.4  
 91 23.9 12.2 36.6

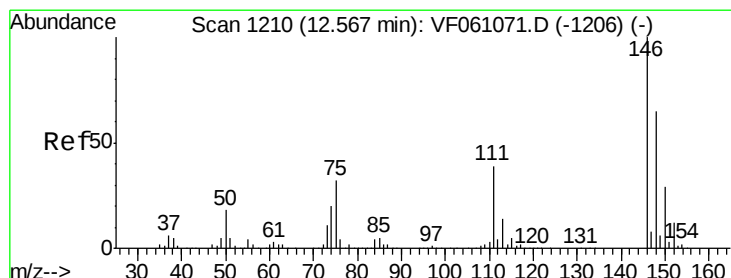
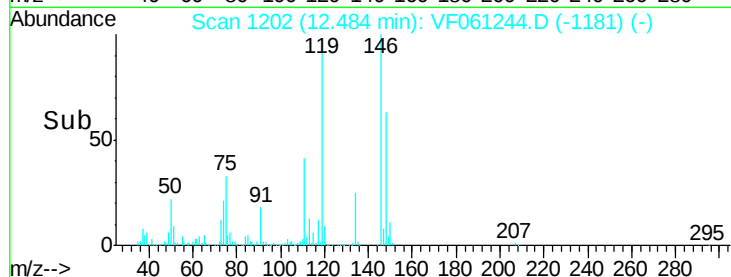
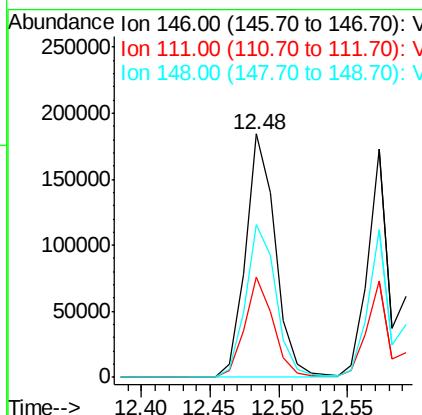
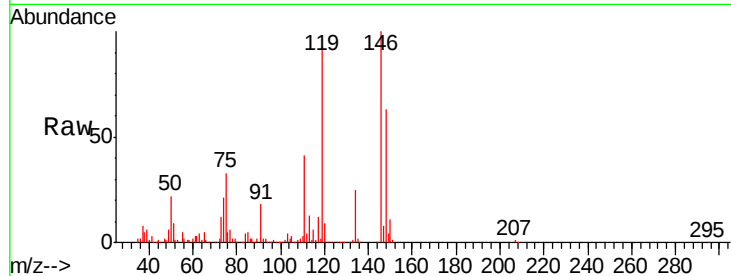




#87  
 1,3-Dichlorobenzene  
 Concen: 57.124 ug/l  
 RT: 12.48 min Scan# 1202  
 Delta R.T. 0.01 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

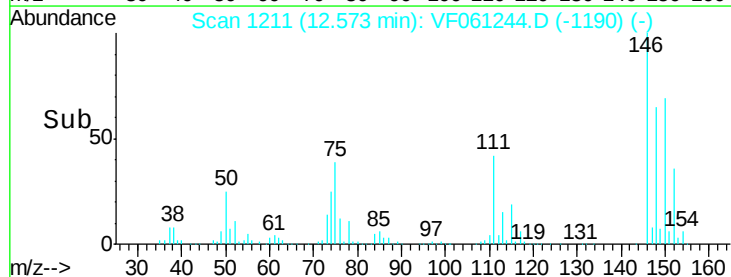
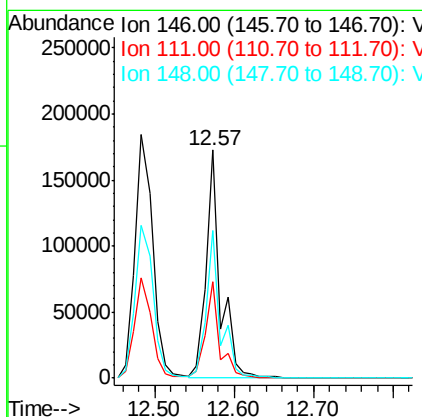
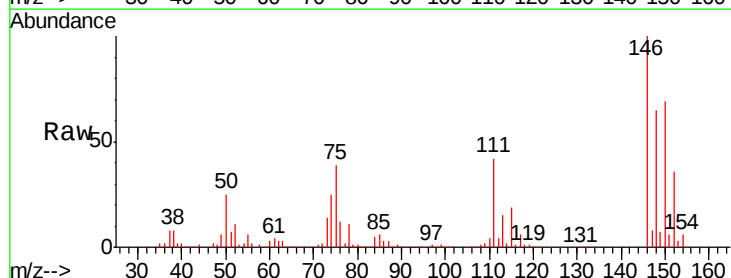
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

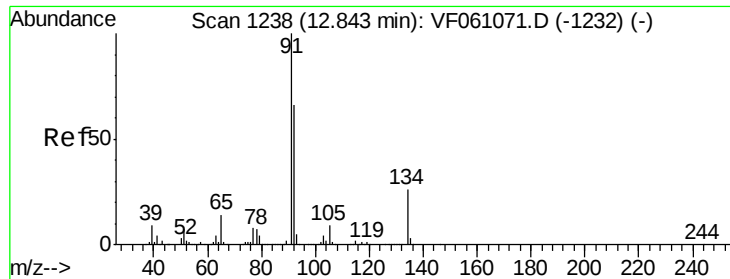
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.1  | 19.3  | 57.9  |
| 148     | 62.9  | 32.4  | 97.2  |



#88  
 1,4-Dichlorobenzene  
 Concen: 39.086 ug/l  
 RT: 12.57 min Scan# 1211  
 Delta R.T. 0.01 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.1  | 19.4  | 58.4  |
| 148     | 65.0  | 32.4  | 97.0  |

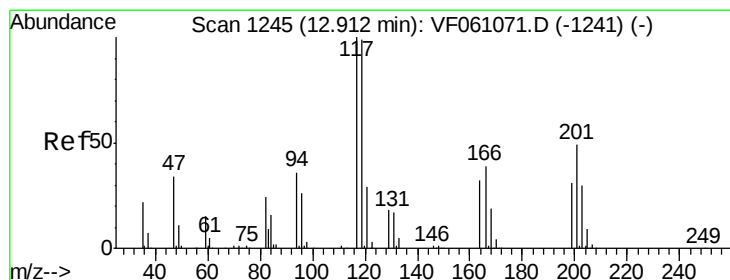
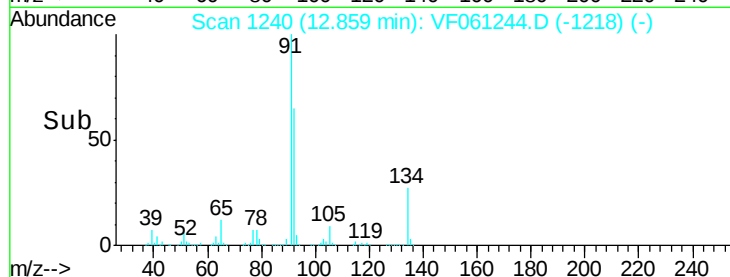
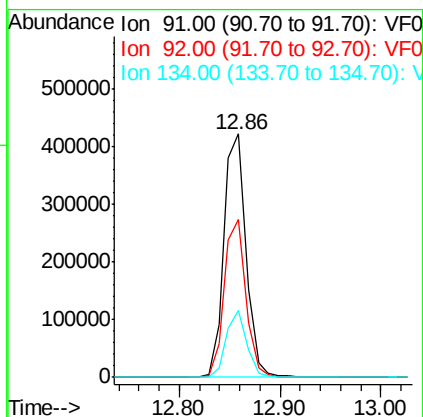
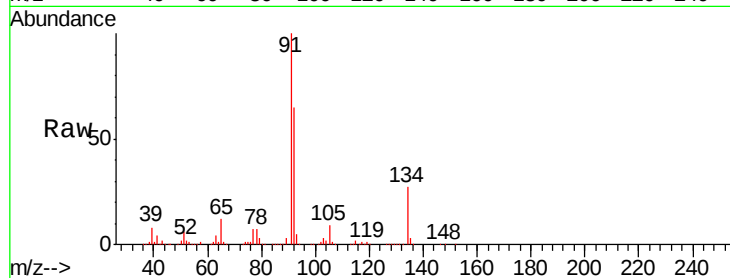




#89  
n-Butylbenzene  
Concen: 48.892 ug/l  
RT: 12.86 min Scan# 1240  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

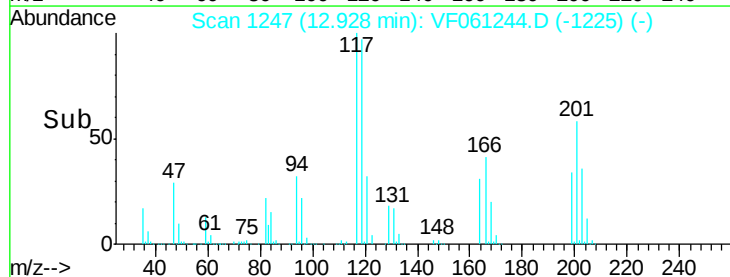
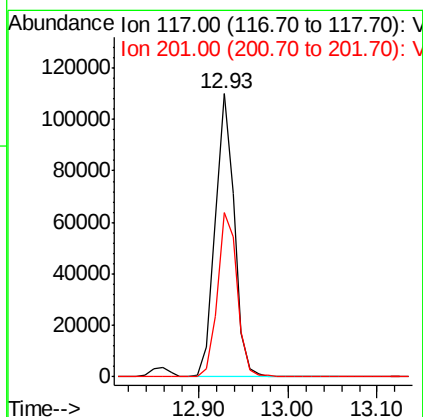
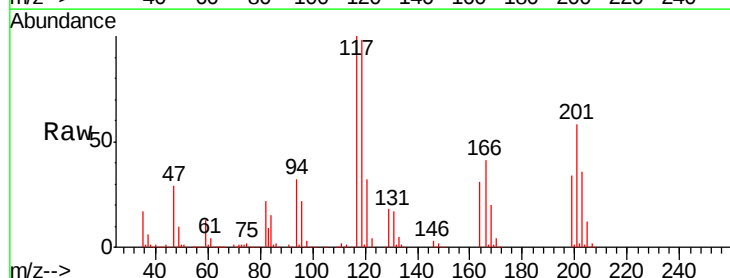
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

Tgt Ion: 91 Resp: 645406  
Ion Ratio Lower Upper  
91 100  
92 64.6 32.8 98.4  
134 27.4 13.2 39.5



#90  
Hexachloroethane  
Concen: 51.222 ug/l  
RT: 12.93 min Scan# 1247  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion: 117 Resp: 164522  
Ion Ratio Lower Upper  
117 100  
201 59.7 24.9 74.8

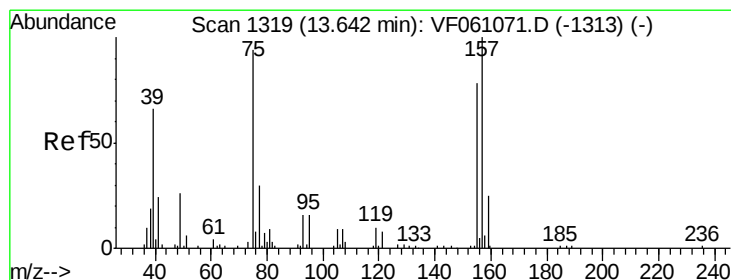
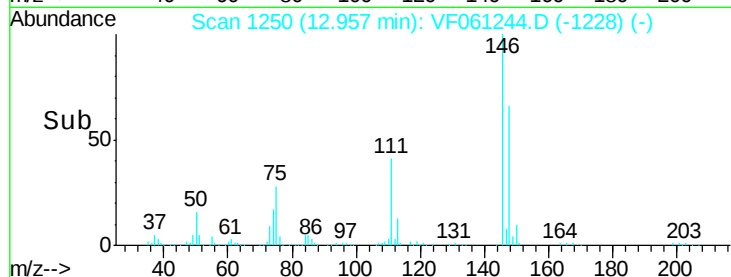
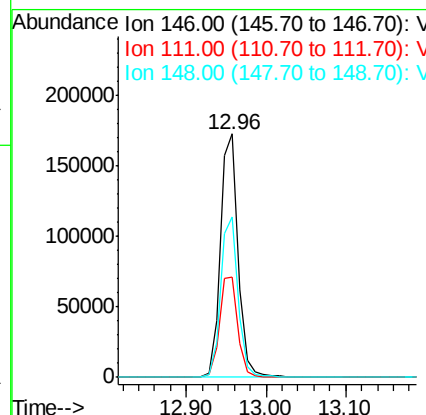
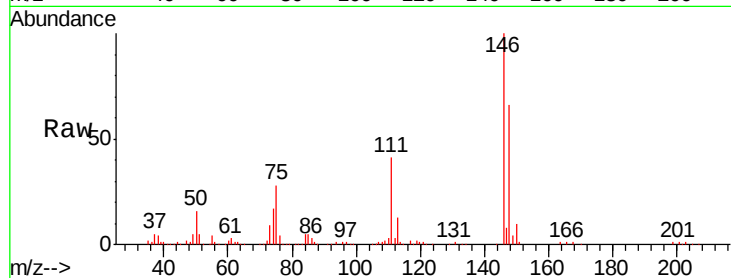




#91  
 1,2-Dichlorobenzene  
 Concen: 49.465 ug/l  
 RT: 12.96 min Scan# 1250  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

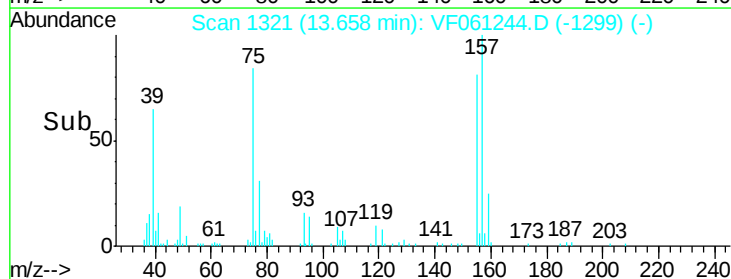
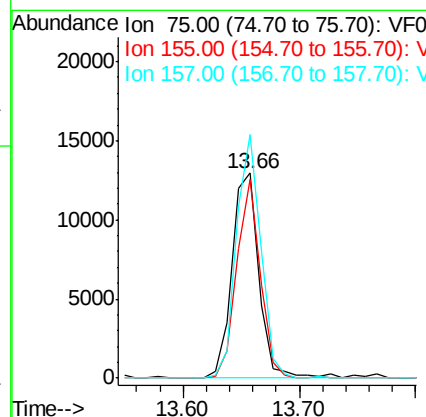
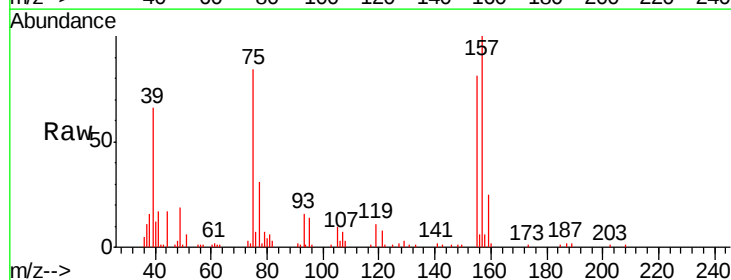
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

Tgt Ion: 146 Resp: 269633  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 23.2 69.5  
 148 65.9 32.4 97.0



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 48.266 ug/l  
 RT: 13.66 min Scan# 1321  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Tgt Ion: 75 Resp: 20821  
 Ion Ratio Lower Upper  
 75 100  
 155 96.7 41.5 124.5  
 157 118.7 53.2 159.6

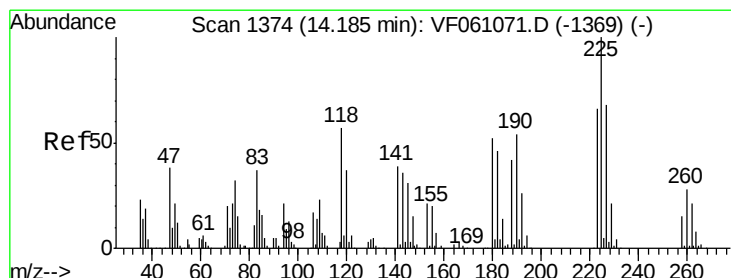
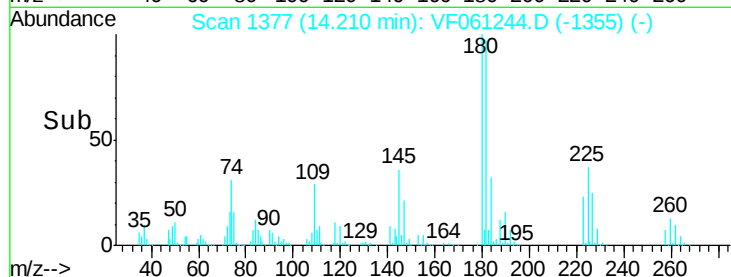
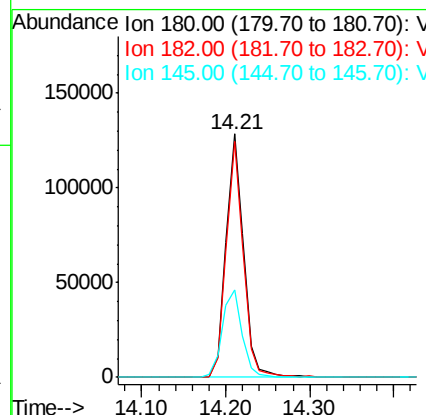
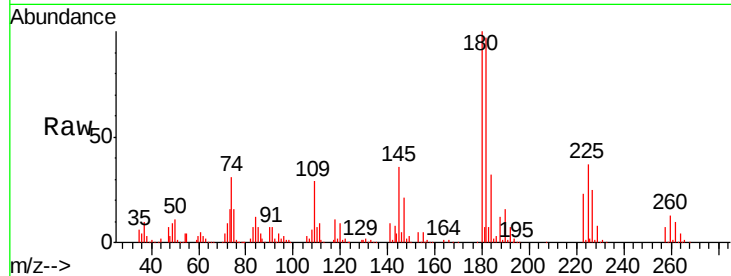




#93  
 1,2,4-Trichlorobenzene  
 Concen: 48.513 ug/l  
 RT: 14.21 min Scan# 1377  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

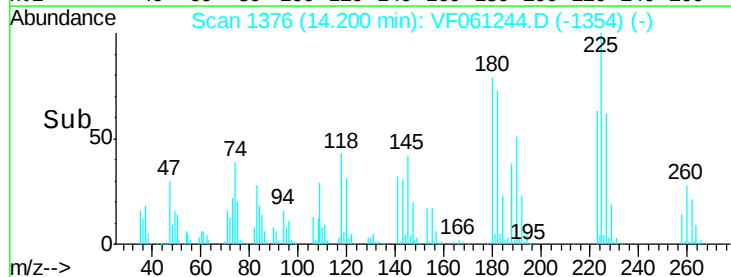
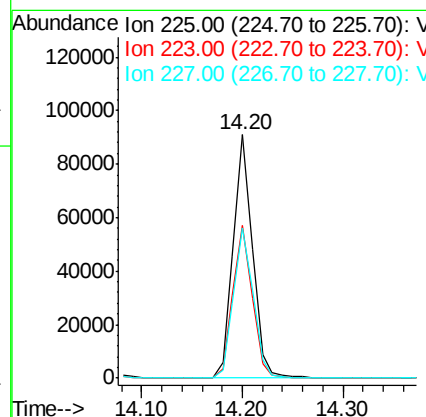
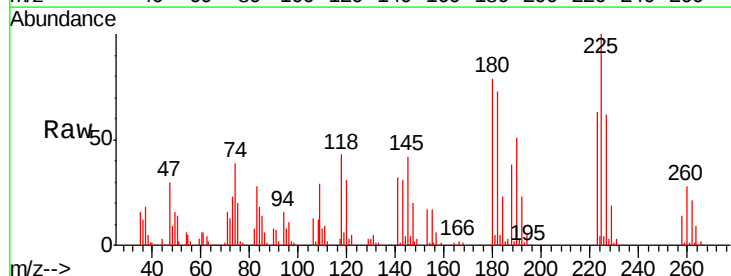
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

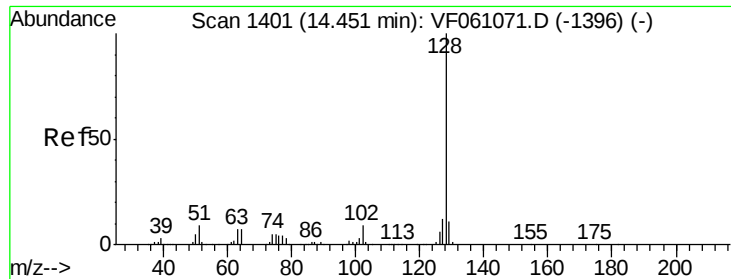
Tgt Ion:180 Resp: 187543  
 Ion Ratio Lower Upper  
 180 100  
 182 96.7 46.9 140.6  
 145 36.0 20.5 61.6



#94  
 Hexachlorobutadiene  
 Concen: 49.351 ug/l  
 RT: 14.20 min Scan# 1376  
 Delta R.T. 0.02 min  
 Lab File: VF061244.D  
 Acq: 28 Dec 2018 19:10

Tgt Ion:225 Resp: 121510  
 Ion Ratio Lower Upper  
 225 100  
 223 62.9 32.8 98.3  
 227 61.9 34.0 101.8

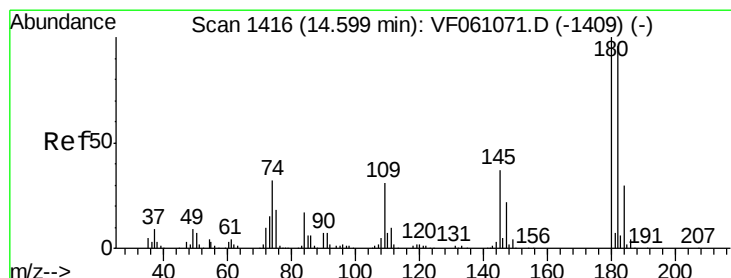
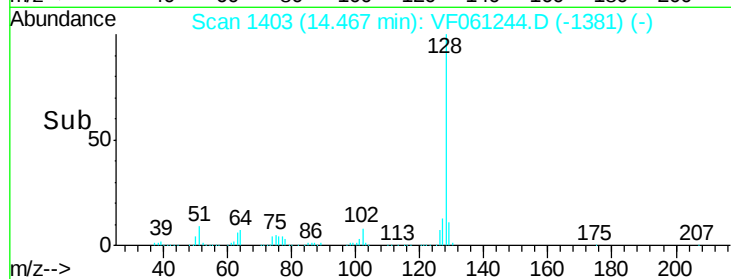
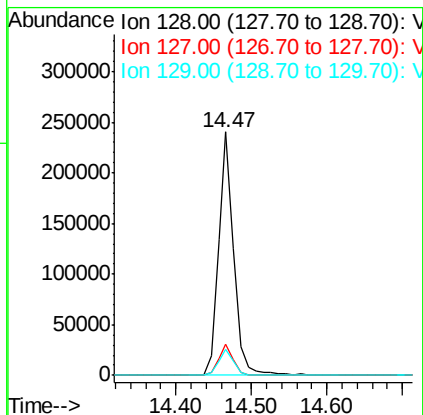
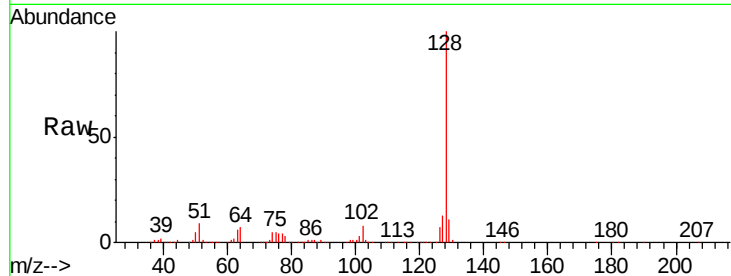




#95  
Naphthalene  
Concen: 47.999 ug/l  
RT: 14.47 min Scan# 1403  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

Tgt Ion:128 Resp: 338830  
Ion Ratio Lower Upper  
128 100  
127 12.6 9.4 14.2  
129 10.9 8.8 13.2



#96  
1,2,3-Trichlorobenzene  
Concen: 50.026 ug/l  
RT: 14.61 min Scan# 1418  
Delta R.T. 0.02 min  
Lab File: VF061244.D  
Acq: 28 Dec 2018 19:10

Tgt Ion:180 Resp: 178780  
Ion Ratio Lower Upper  
180 100  
182 92.9 47.9 143.8  
145 33.9 18.6 55.8

