

Data File : VW010445.D  
Acq On : 18 May 2019 08:08  
Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

Quant Time: May 20 05:37:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W051719S.M  
Quant Title : SW846 8260  
QLast Update : Sat May 18 01:59:40 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 686011   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 1337834  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 1247993  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 601799   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 447190   | 59.44 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 118.88% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 433121   | 52.42 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.84% |      |
| 50) Toluene-d8              | 10.32  | 98  | 1555301  | 50.48 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.96% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 625769   | 51.73 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.46% |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 207545  | 42.521  | ug/l | 98     |
| 3) Chloromethane              | 2.20 | 50  | 320643  | 45.440  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.34 | 62  | 337159  | 41.022  | ug/l | 99     |
| 5) Bromomethane               | 2.74 | 94  | 256991  | 62.672  | ug/l | 97     |
| 6) Chloroethane               | 2.90 | 64  | 246746  | 48.165  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 522760  | 45.864  | ug/l | 98     |
| 8) Diethyl Ether              | 3.68 | 74  | 240547  | 59.332  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 328978  | 45.348  | ug/l | 96     |
| 10) Methyl Iodide             | 4.26 | 142 | 425159  | 52.405  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.15 | 59  | 236086  | 345.937 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 325040  | 47.511  | ug/l | 95     |
| 13) Acrolein                  | 3.89 | 56  | 84421   | 185.211 | ug/l | 96     |
| 14) Allyl chloride            | 4.66 | 41  | 532147  | 50.144  | ug/l | 99     |
| 15) Acrylonitrile             | 5.36 | 53  | 553364  | 319.229 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 428079  | 323.008 | ug/l | 97     |
| 17) Carbon Disulfide          | 4.37 | 76  | 879124  | 45.001  | ug/l | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 296936  | 71.696  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 1196352 | 60.966  | ug/l | 99     |
| 20) Methylene Chloride        | 4.91 | 84  | 417433  | 60.866  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 403364  | 50.552  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.31 | 45  | 1302481 | 57.507  | ug/l | 99     |
| 23) Vinyl Acetate             | 6.25 | 43  | 3583944 | 253.658 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 715484  | 54.564  | ug/l | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 722437  | 319.782 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 413340  | 34.930  | ug/l | 97     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 503926  | 56.315  | ug/l | 97     |
| 28) Bromochloromethane        | 7.51 | 49  | 313380  | 63.610  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 489289  | 320.045 | ug/l | 99     |
| 30) Chloroform                | 7.67 | 83  | 784725  | 56.900  | ug/l | 100    |
| 31) Cyclohexane               | 7.95 | 56  | 540529  | 46.425  | ug/l | 94     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 652324  | 50.161  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 513345  | 43.343  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.25 | 43  | 323478  | 56.924  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.06 | 117 | 558473  | 43.693  | ug/l | 100    |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W051719S.M  
Quant Title : SW846 8260  
QLast Update : Sat May 18 01:59:40 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 640488   | 40.495   | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 1670097  | 49.409   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 178638   | 52.496   | ug/l # | 85       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 541105   | 53.728   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 637265   | 55.068   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 476767   | 49.231   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 431701   | 52.173   | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 267821   | 54.793   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.64  | 83   | 644726   | 53.081   | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.43  | 41   | 286873   | 53.798   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 89610    | 1238.761 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 1658775  | 280.223  | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 1093327  | 48.702   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 614055   | 49.020   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 683655   | 48.139   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 395676   | 56.106   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 539721   | 54.846   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 653775   | 55.300   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 1298095  | 274.534  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 1145064  | 277.797  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 489733   | 55.961   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 395599   | 55.349   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.86 | 164  | 526008   | 64.080   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 1248355  | 49.260   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 478177   | 51.096   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 2060149  | 46.149   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 1622905  | 92.885   | ug/l   | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 808978   | 48.572   | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 1426947  | 49.758   | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 293017   | 55.571   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 2040992  | 43.860   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 585336   | 49.084   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 459923   | 49.904   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 567057   | 87.995   | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 523399   | 49.789   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.80 | 91   | 2324682  | 43.067   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 1441695  | 45.738   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 1773453  | 44.774   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 129115   | 39.537   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 1502094  | 45.628   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 1533923  | 45.792   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 1803213  | 46.274   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 2035202  | 43.148   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 1846960  | 43.344   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 968637   | 47.846   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 981191   | 48.689   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 1679056  | 41.299   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 387664   | 45.226   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 931586   | 50.610   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 88999    | 51.894   | ug/l   | 100      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW051719\  
Quantitation Report (Not Reviewed)

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Sample : VSTDCCC050  
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ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

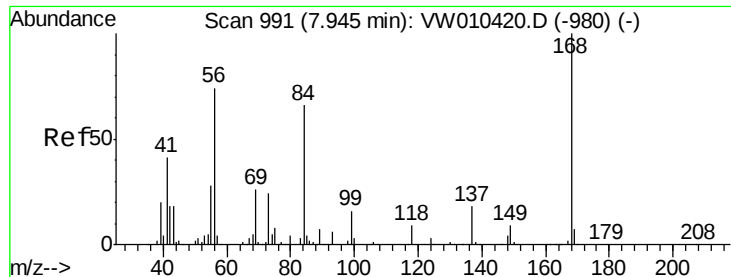
Quant Time: May 20 05:37:29 2019  
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Quant Title : SW846 8260  
QLast Update : Sat May 18 01:59:40 2019  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 569735   | 47.480 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 277136   | 43.261 | ug/l  | 98       |
| 95) Naphthalene            | 15.37 | 128  | 1410048  | 51.985 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 529042   | 50.005 | ug/l  | 99       |

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

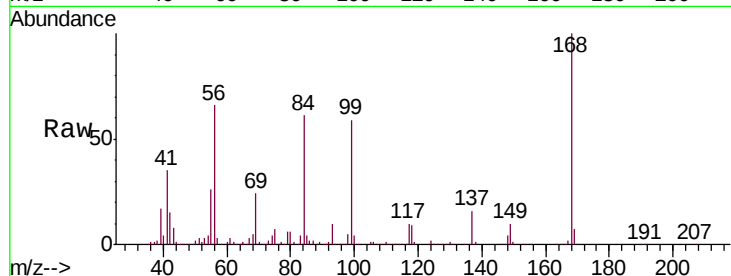
VSTDCCC050EC

Tgt Ion:168 Resp: 686011

Ion Ratio Lower Upper

168 100

99 59.1 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

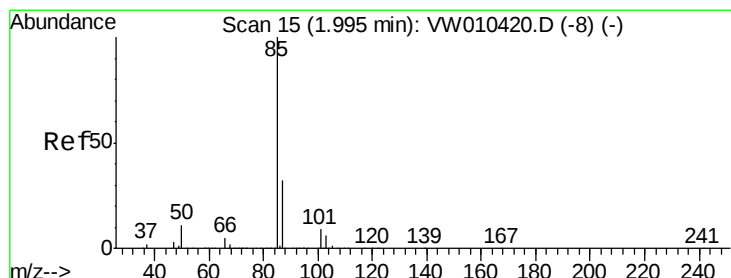
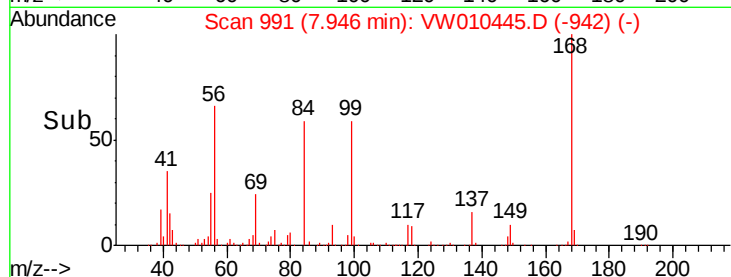
300000

200000

100000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 42.521 ug/l

RT: 1.99 min Scan# 14

Delta R.T. -0.01 min

Lab File: VW010445.D

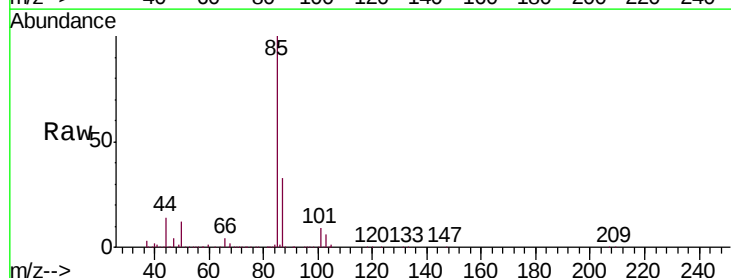
Acq: 18 May 2019 08:08

Tgt Ion: 85 Resp: 207545

Ion Ratio Lower Upper

85 100

87 33.3 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

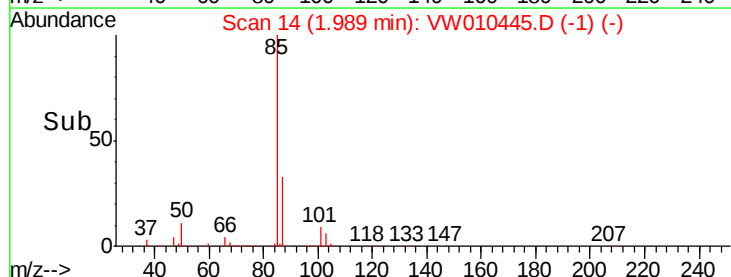
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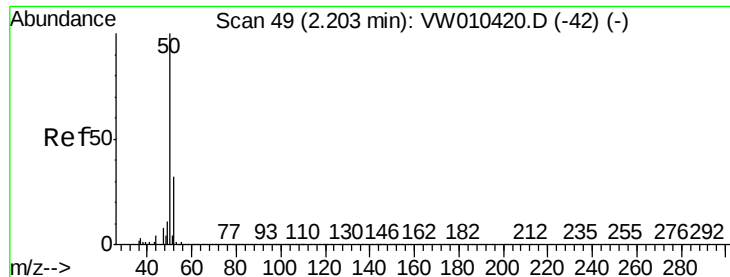
100000

50000

0

Time--> 1.90 2.00 2.10





#3

Chloromethane

Concen: 45.440 ug/l

RT: 2.20 min Scan# 49

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

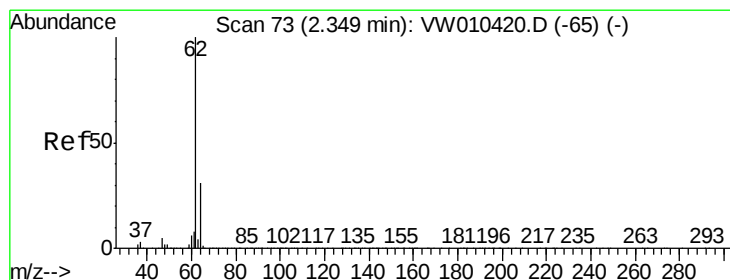
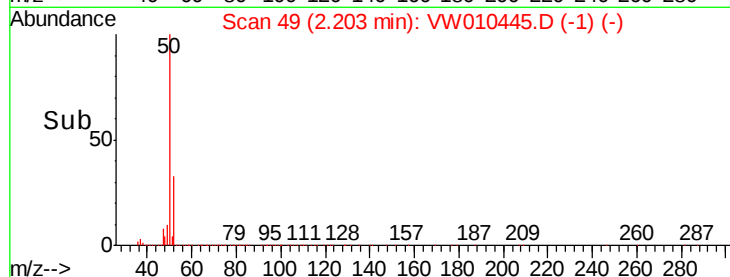
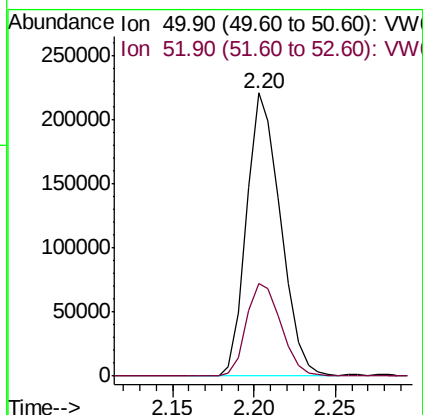
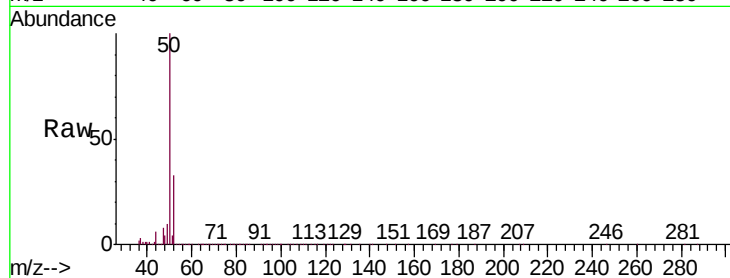
VSTDCCC050EC

Tgt Ion: 50 Resp: 320643

Ion Ratio Lower Upper

50 100

52 32.5 25.4 38.0



#4

Vinyl Chloride

Concen: 41.022 ug/l

RT: 2.34 min Scan# 72

Delta R.T. -0.01 min

Lab File: VW010445.D

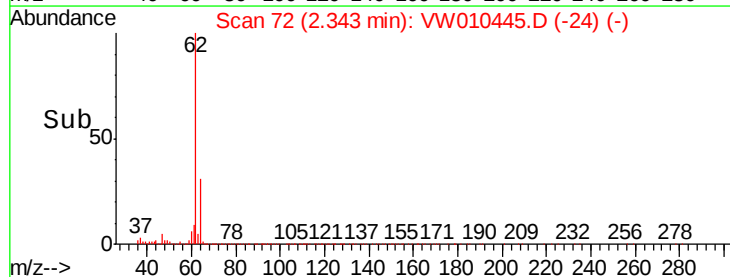
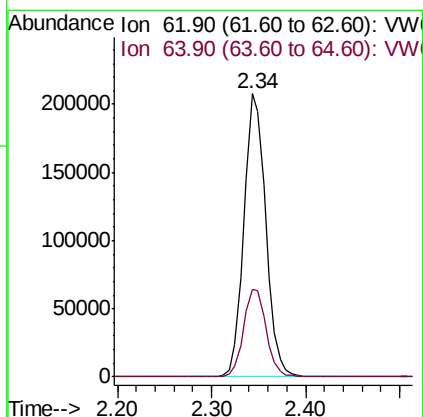
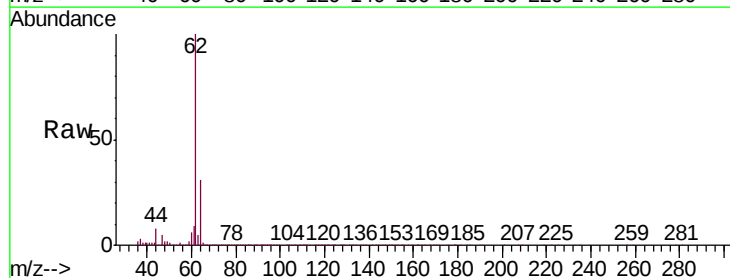
Acq: 18 May 2019 08:08

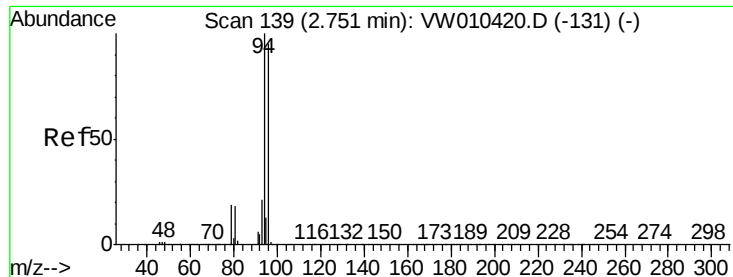
Tgt Ion: 62 Resp: 337159

Ion Ratio Lower Upper

62 100

64 31.0 24.4 36.6





#5

Bromomethane

Concen: 62.672 ug/l

RT: 2.74 min Scan# 137

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

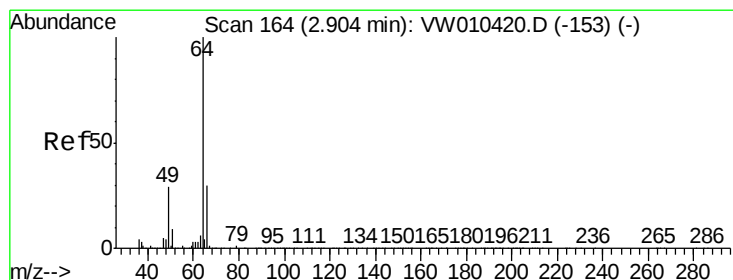
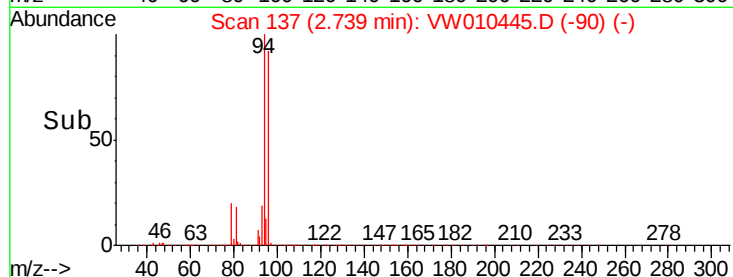
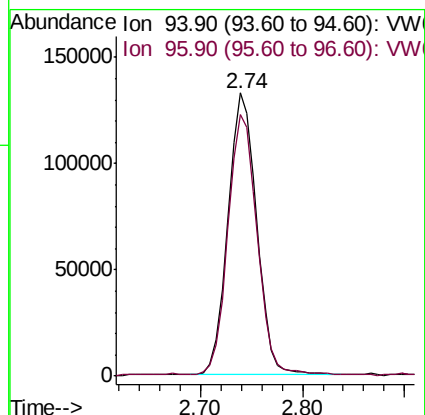
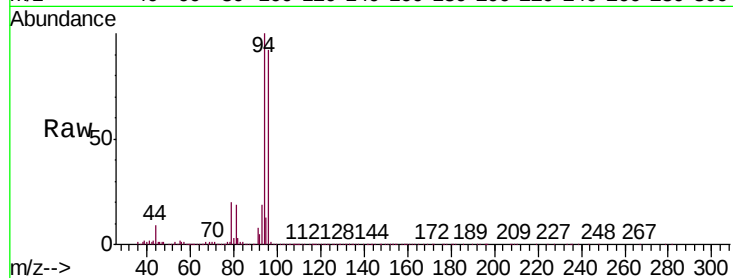
VSTDCCC050EC

Tgt Ion: 94 Resp: 256991

Ion Ratio Lower Upper

94 100

96 92.1 75.8 113.6



#6

Chloroethane

Concen: 48.165 ug/l

RT: 2.90 min Scan# 163

Delta R.T. -0.01 min

Lab File: VW010445.D

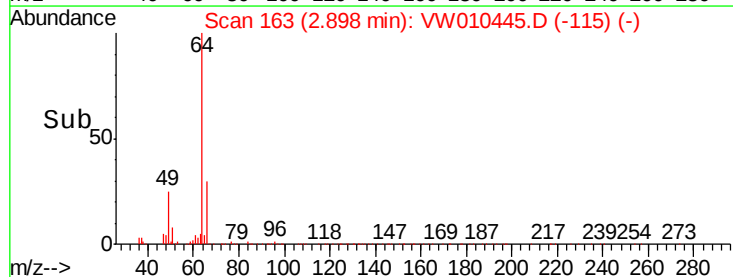
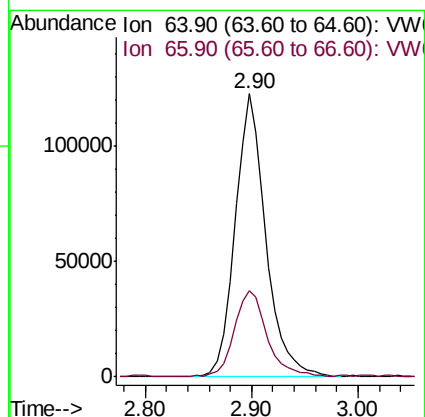
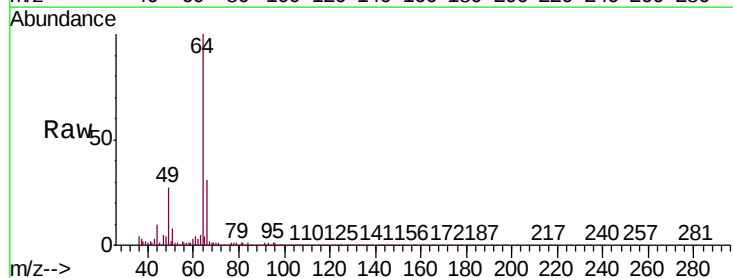
Acq: 18 May 2019 08:08

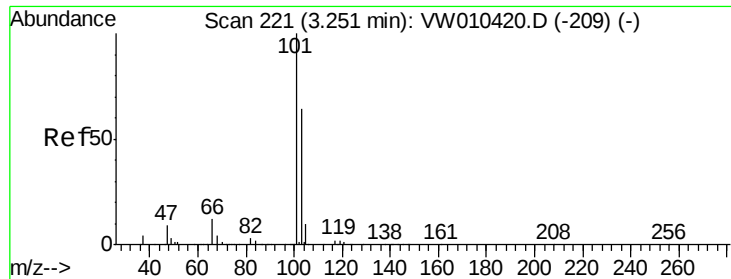
Tgt Ion: 64 Resp: 246746

Ion Ratio Lower Upper

64 100

66 30.3 23.6 35.4



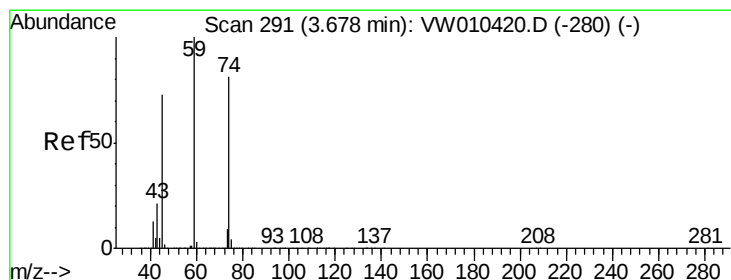
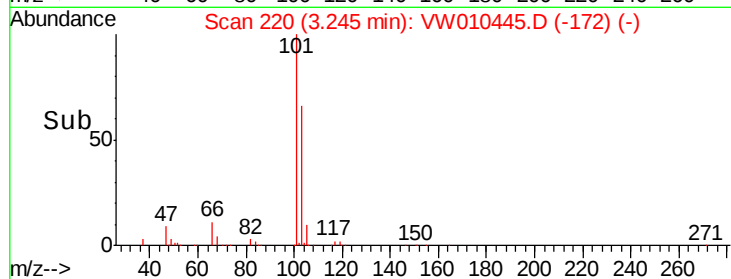
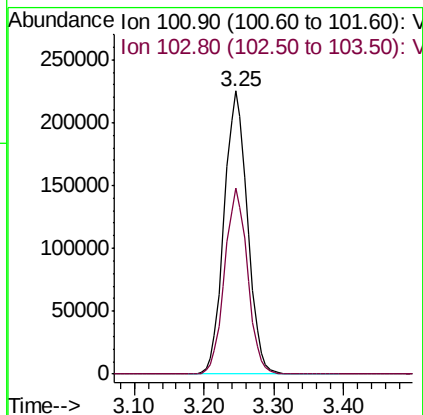
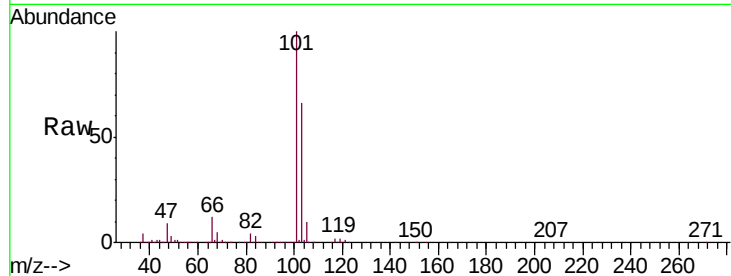


#7

Trichlorofluoromethane  
Concen: 45.864 ug/l  
RT: 3.25 min Scan# 220  
Delta R.T. -0.01 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

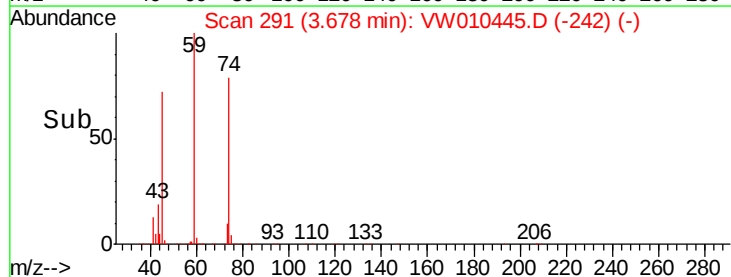
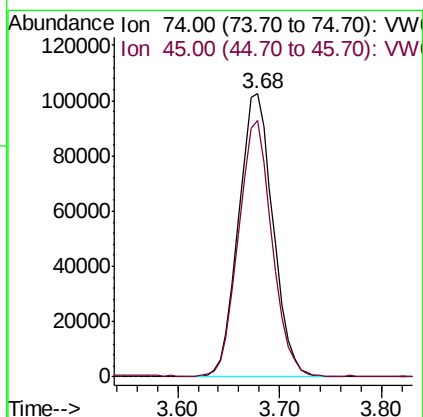
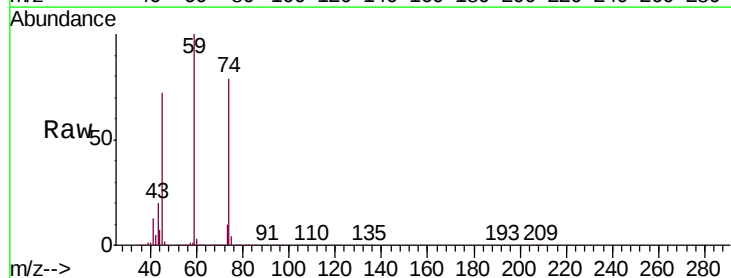
Tgt Ion:101 Resp: 522760  
Ion Ratio Lower Upper  
101 100  
103 65.8 51.4 77.0

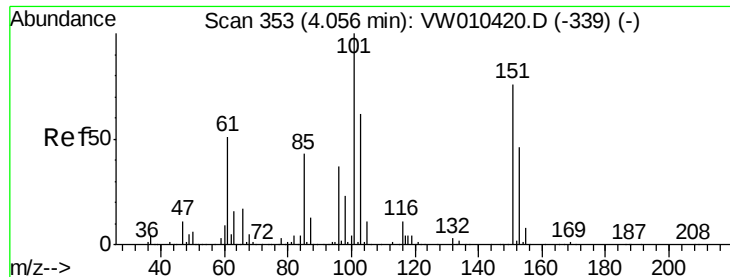


#8

Diethyl Ether  
Concen: 59.332 ug/l  
RT: 3.68 min Scan# 291  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion: 74 Resp: 240547  
Ion Ratio Lower Upper  
74 100  
45 87.6 43.4 130.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.348 ug/l

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

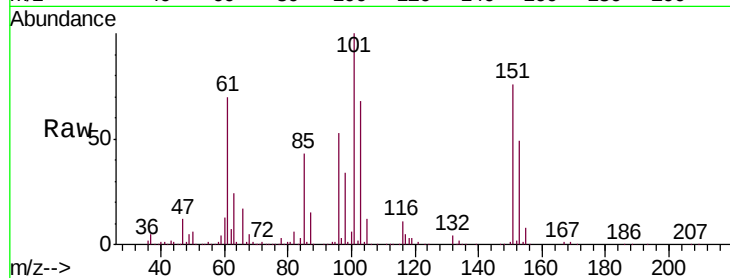
Tgt Ion:101 Resp: 328978

Ion Ratio Lower Upper

101 100

85 43.9 34.3 51.5

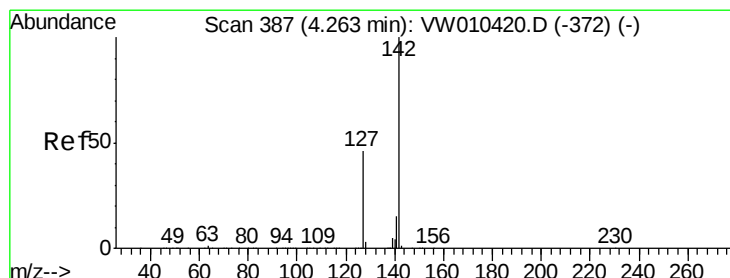
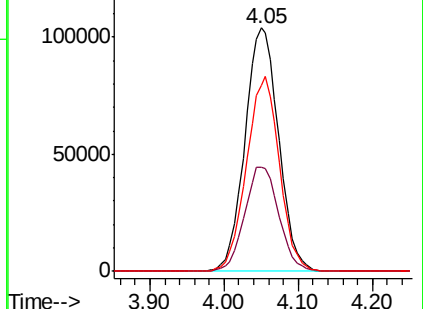
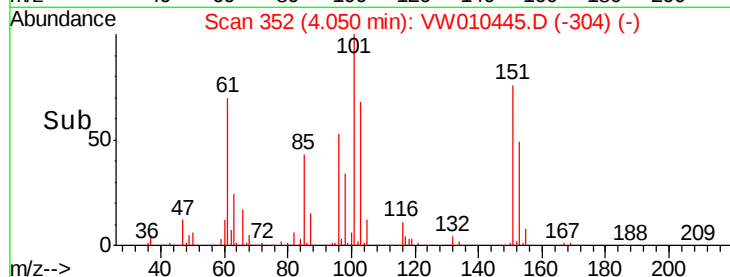
151 78.3 59.4 89.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 52.405 ug/l

RT: 4.26 min Scan# 387

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

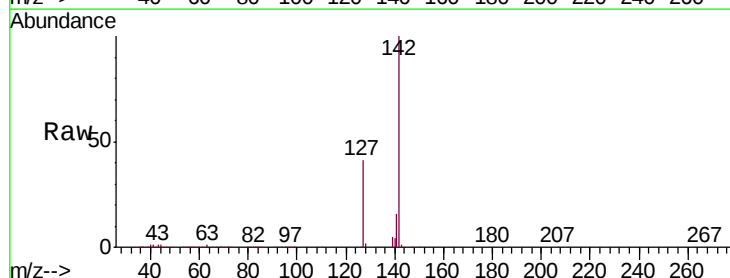
Tgt Ion:142 Resp: 425159

Ion Ratio Lower Upper

142 100

127 43.1 35.4 53.2

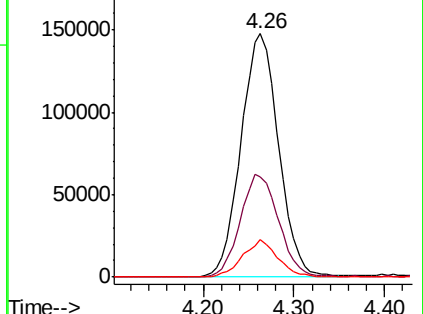
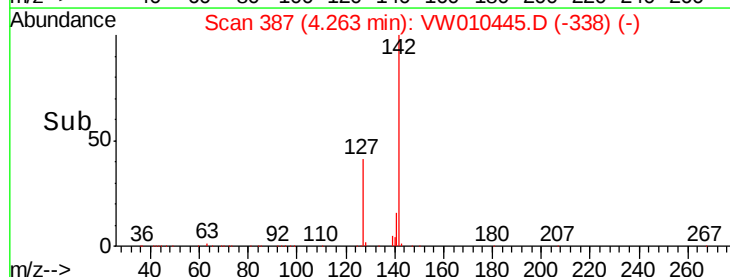
141 14.4 11.4 17.2

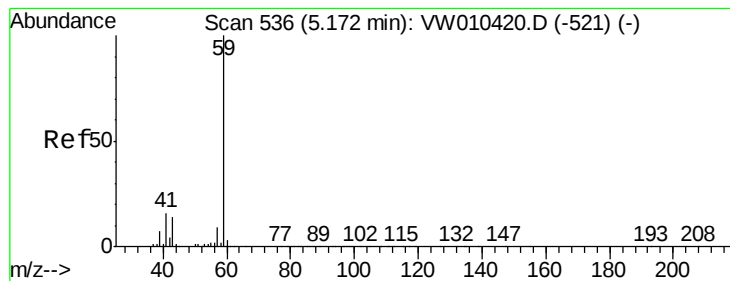


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



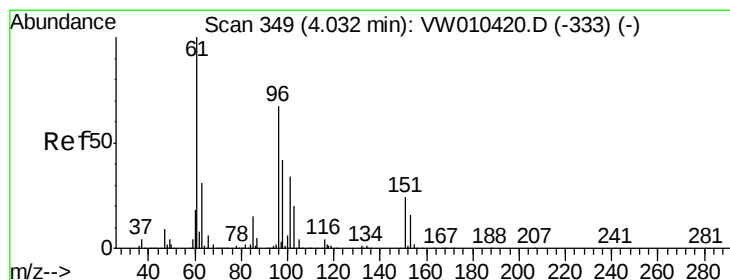
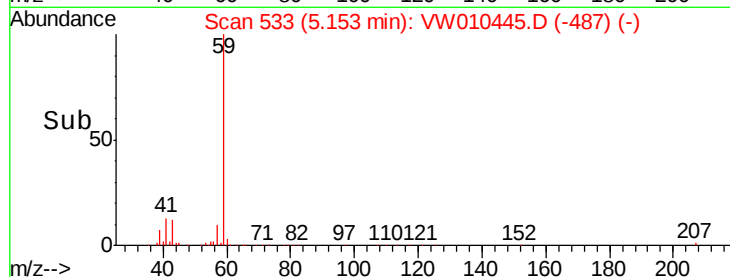
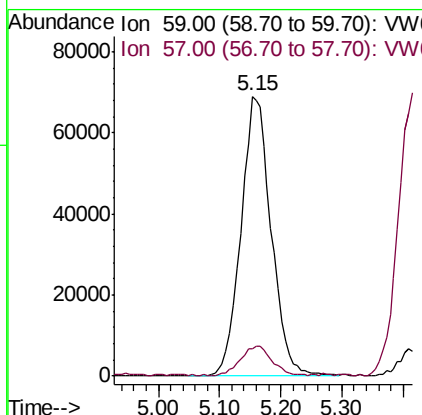
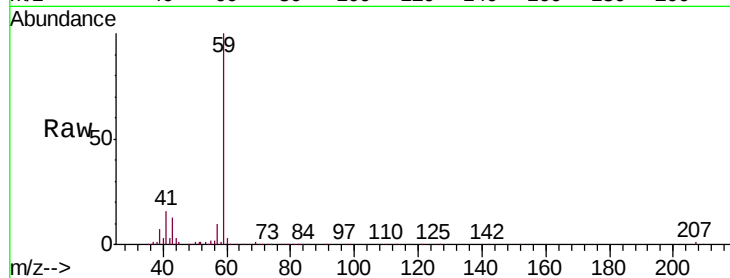


#11

Tert butyl alcohol  
Concen: 345.937 ug/l  
RT: 5.15 min Scan# 533  
Delta R.T. -0.02 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

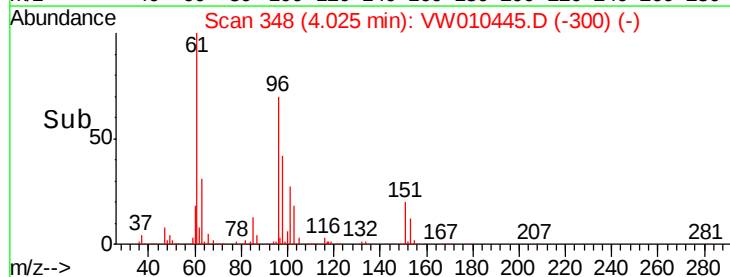
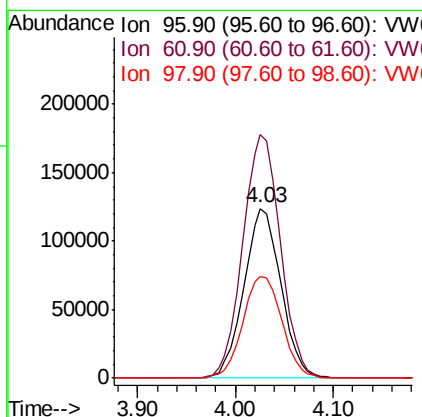
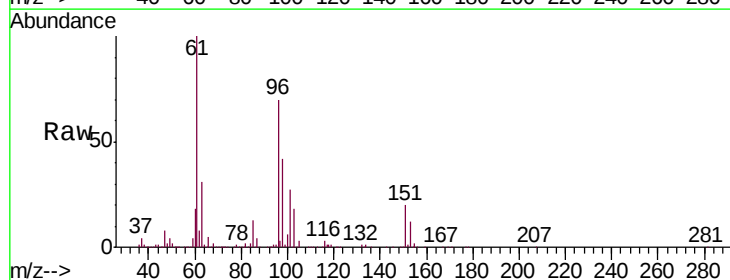
Tgt Ion: 59 Resp: 236086  
Ion Ratio Lower Upper  
59 100  
57 10.7 8.4 12.6

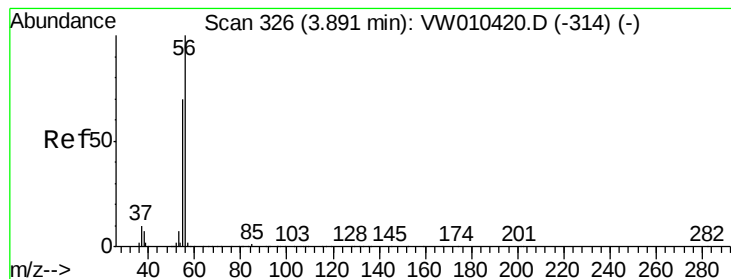


#12

1,1-Dichloroethene  
Concen: 47.511 ug/l  
RT: 4.03 min Scan# 348  
Delta R.T. -0.01 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion: 96 Resp: 325040  
Ion Ratio Lower Upper  
96 100  
61 143.5 120.3 180.5  
98 59.6 50.7 76.1





#13

Acrolein

Concen: 185.211 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

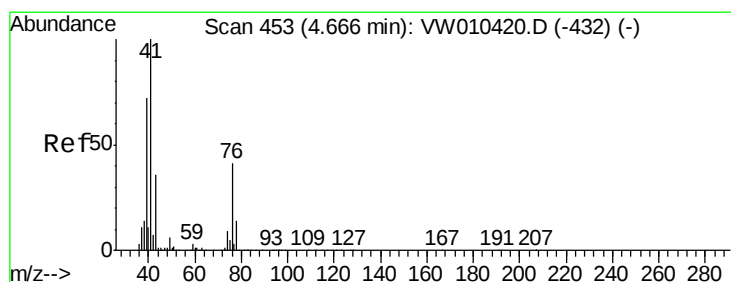
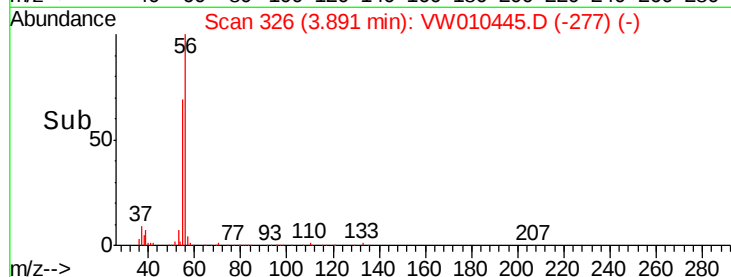
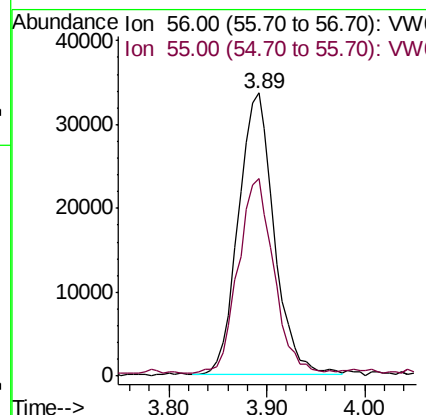
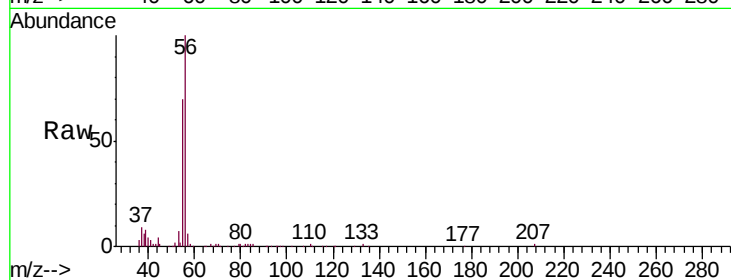
VSTDCCC050EC

Tgt Ion: 56 Resp: 84421

Ion Ratio Lower Upper

56 100

55 68.5 57.6 86.4



#14

Allyl chloride

Concen: 50.144 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

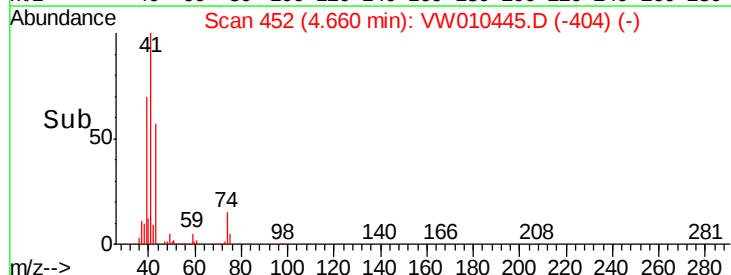
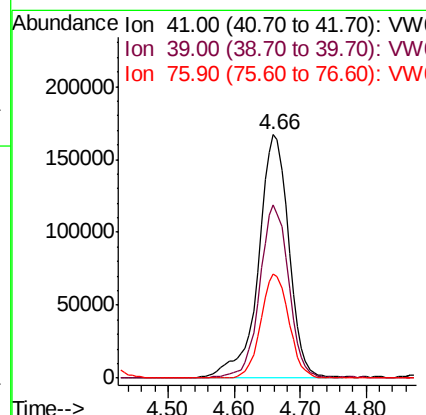
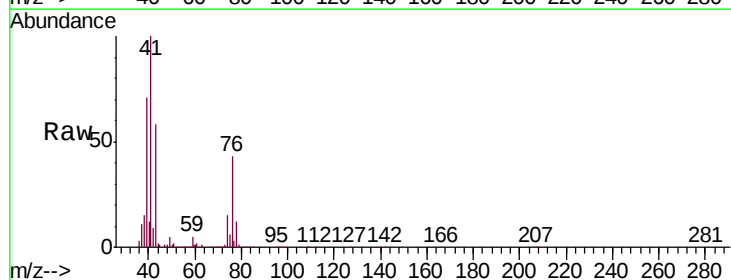
Tgt Ion: 41 Resp: 532147

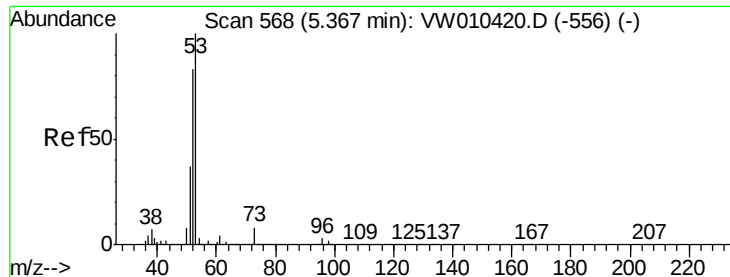
Ion Ratio Lower Upper

41 100

39 67.9 54.9 82.3

76 39.6 31.8 47.6





#15

Acrylonitrile

Concen: 319.229 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

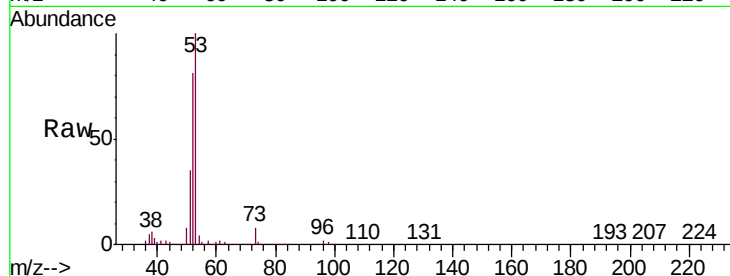
Tgt Ion: 53 Resp: 553364

Ion Ratio Lower Upper

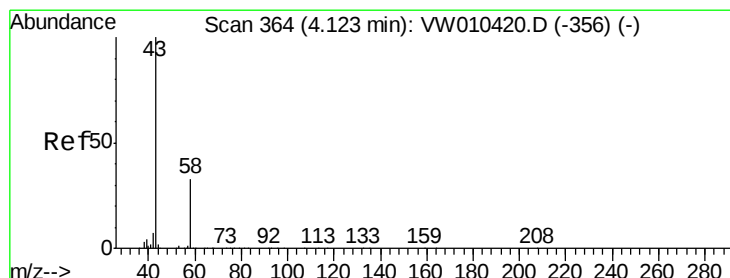
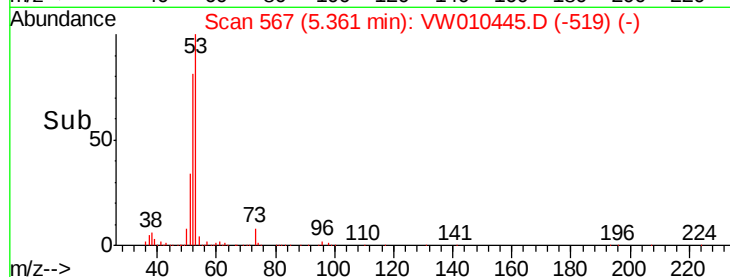
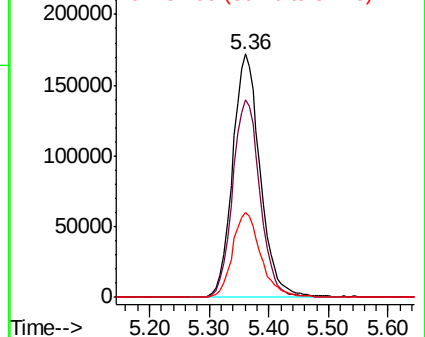
53 100

52 80.4 63.9 95.9

51 35.8 29.5 44.3



Abundance Ion 53.00 (52.70 to 53.70): VW  
Ion 52.00 (51.70 to 52.70): VW  
Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 323.008 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW010445.D

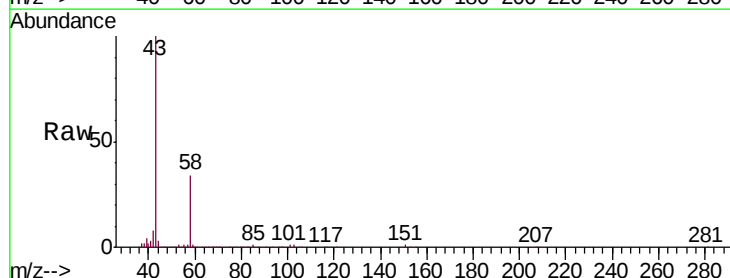
Acq: 18 May 2019 08:08

Tgt Ion: 43 Resp: 428079

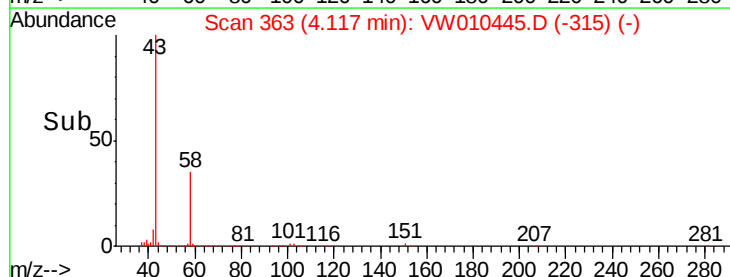
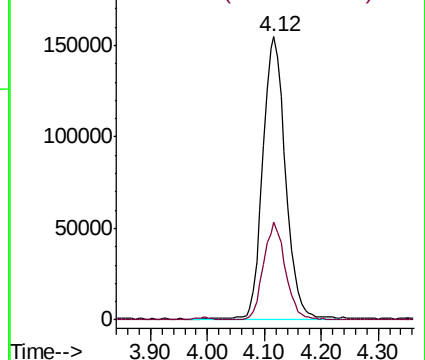
Ion Ratio Lower Upper

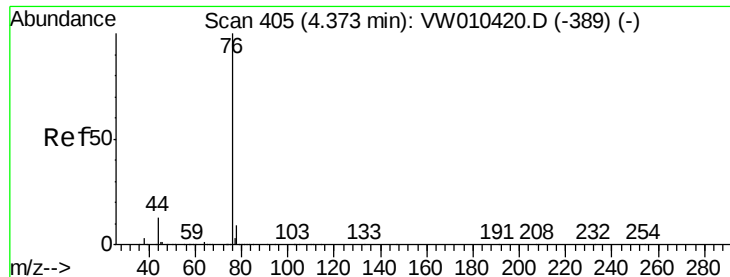
43 100

58 34.3 26.0 39.0



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

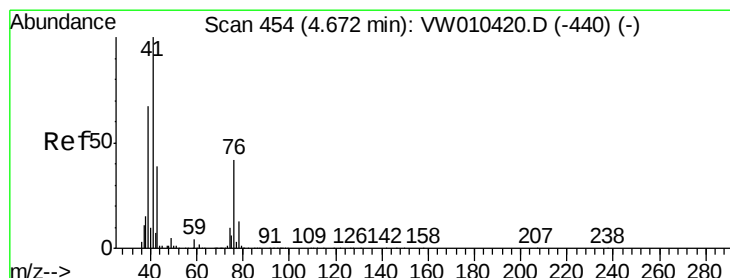
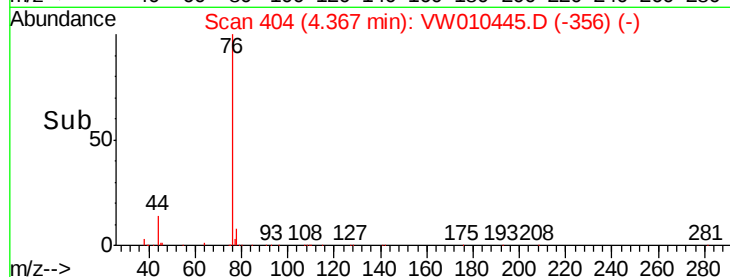
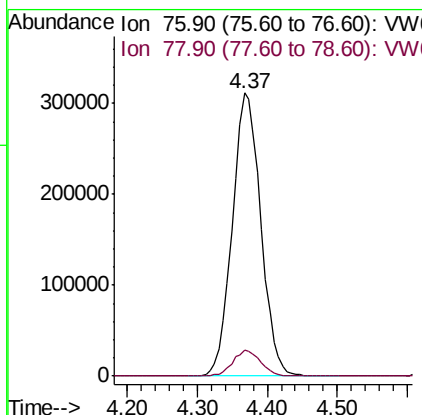
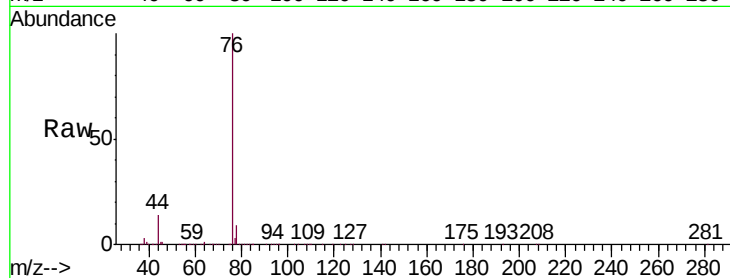




#17  
Carbon Disulfide  
Concen: 45.001 ug/l  
RT: 4.37 min Scan# 404  
Delta R.T. -0.01 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

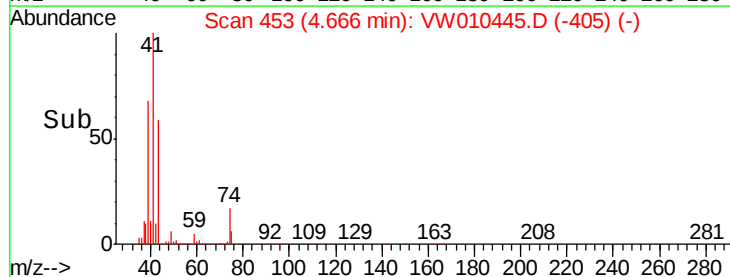
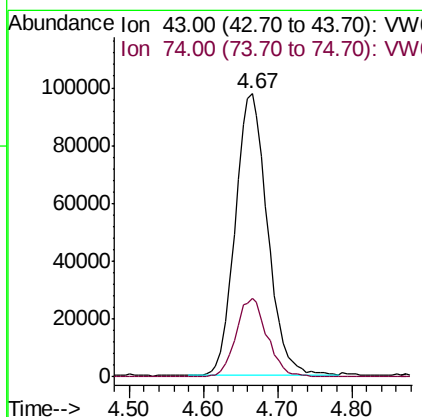
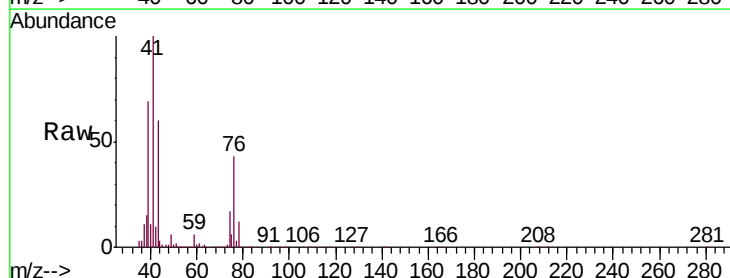
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

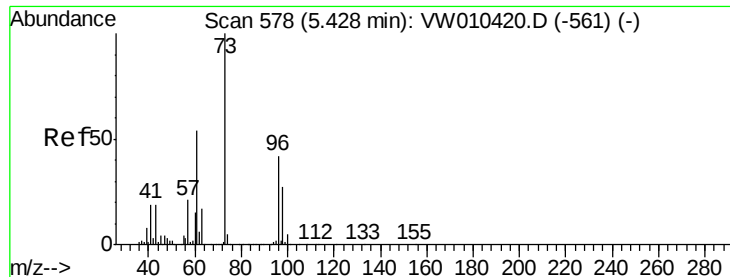
Tgt Ion: 76 Resp: 879124  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.1 10.7



#18  
Methyl Acetate  
Concen: 71.696 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. -0.01 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion: 43 Resp: 296936  
Ion Ratio Lower Upper  
43 100  
74 27.0 21.2 31.8

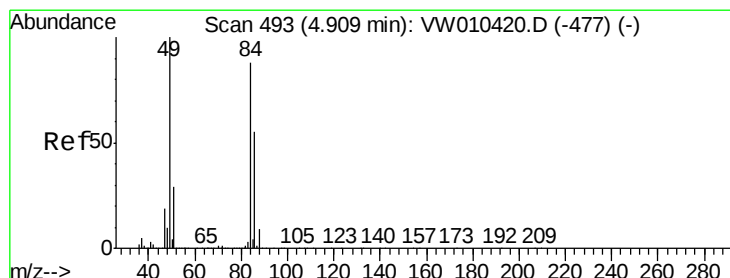
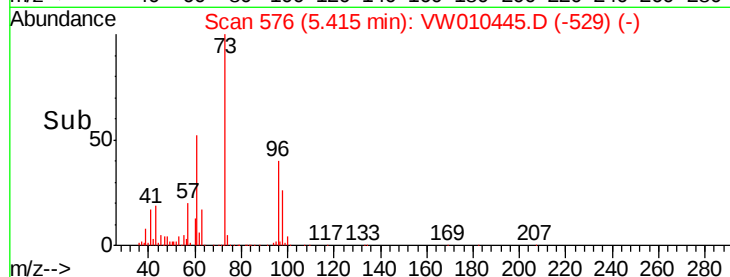
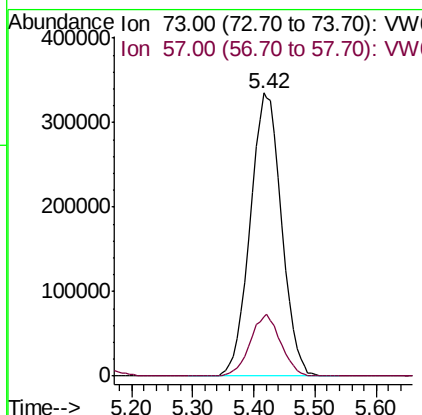
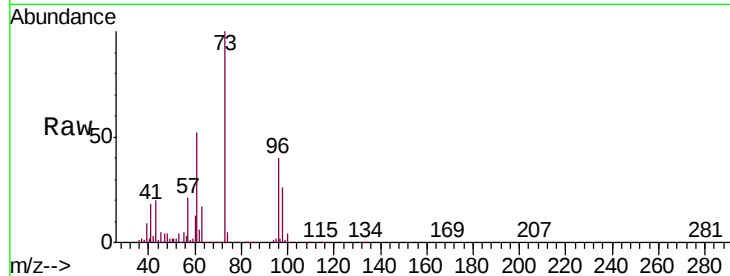




#19  
Methyl tert-butyl Ether  
Concen: 60.966 ug/l  
RT: 5.42 min Scan# 576  
Delta R.T. -0.01 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

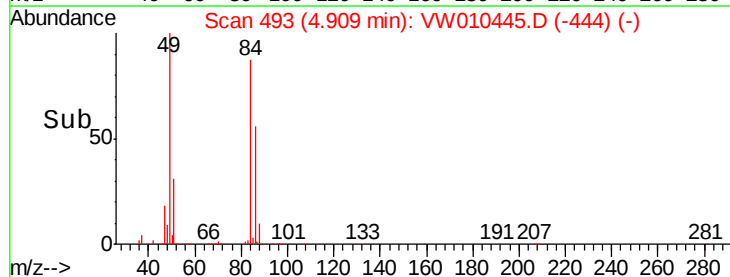
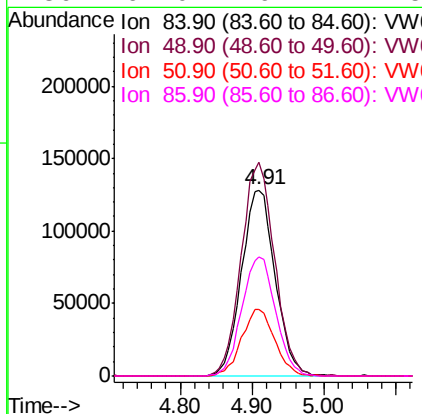
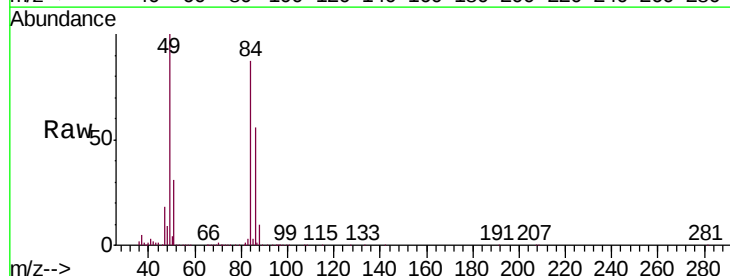
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

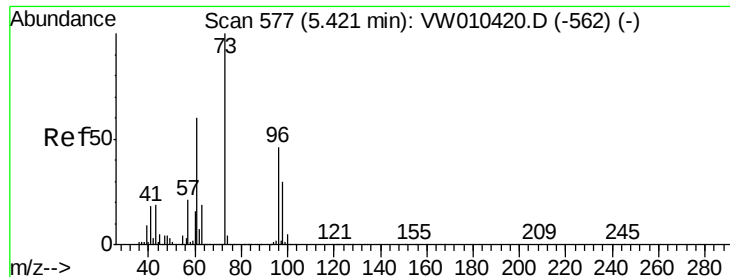
Tgt Ion: 73 Resp: 1196352  
Ion Ratio Lower Upper  
73 100  
57 20.7 17.0 25.4



#20  
Methylene Chloride  
Concen: 60.866 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion: 84 Resp: 417433  
Ion Ratio Lower Upper  
84 100  
49 115.0 90.6 135.8  
51 35.6 26.6 40.0  
86 64.0 49.7 74.5





#21

trans-1,2-Dichloroethene

Concen: 50.552 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

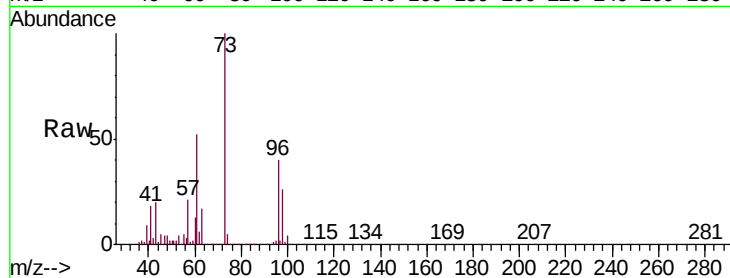
Tgt Ion: 96 Resp: 403364

Ion Ratio Lower Upper

96 100

61 131.0 103.9 155.9

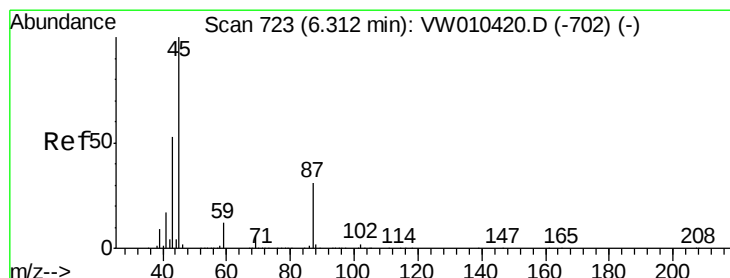
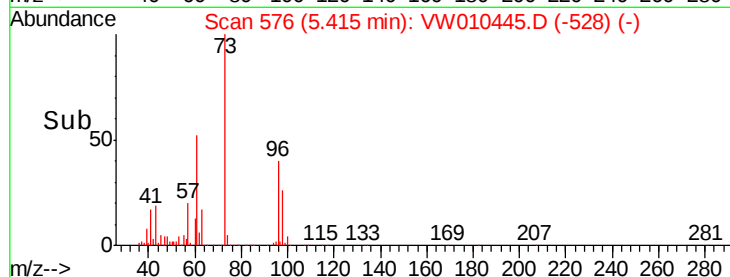
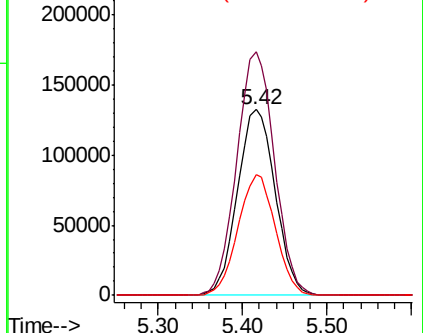
98 64.6 51.5 77.3



Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 57.507 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Tgt Ion: 45 Resp: 1302481

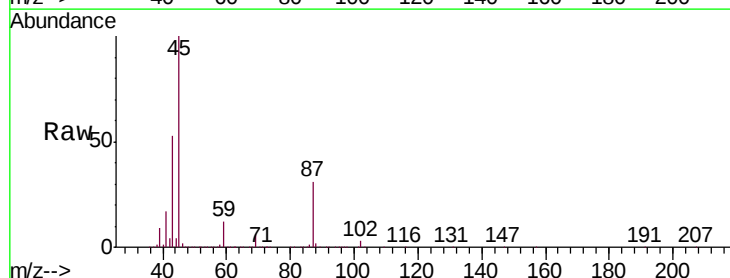
Ion Ratio Lower Upper

45 100

43 52.7 42.0 63.0

87 30.7 25.0 37.6

59 11.9 9.7 14.5

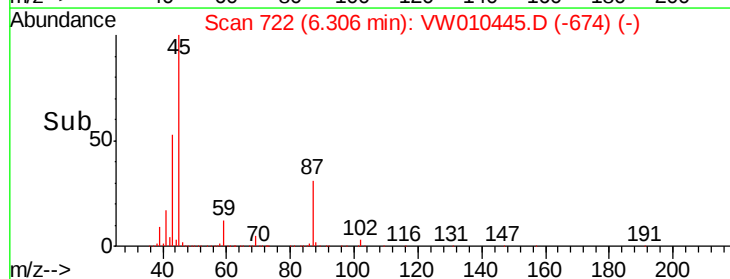
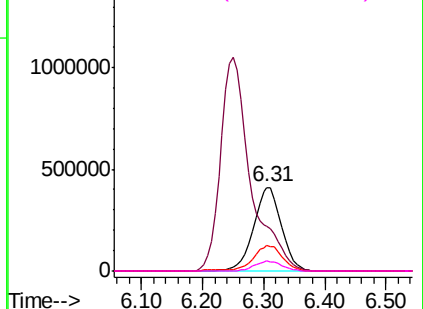


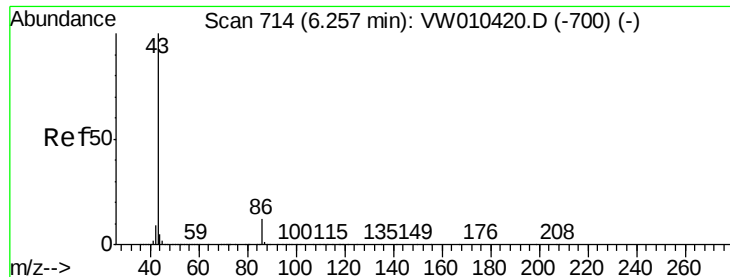
Abundance Ion 45.00 (44.70 to 45.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 253.658 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

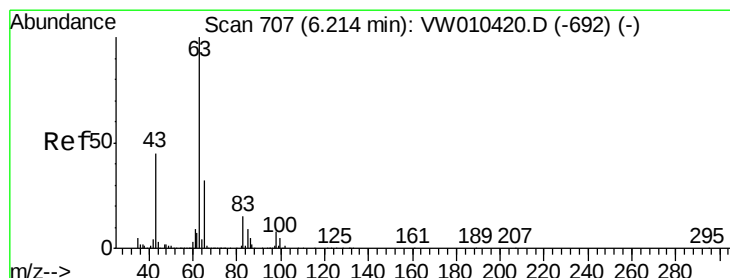
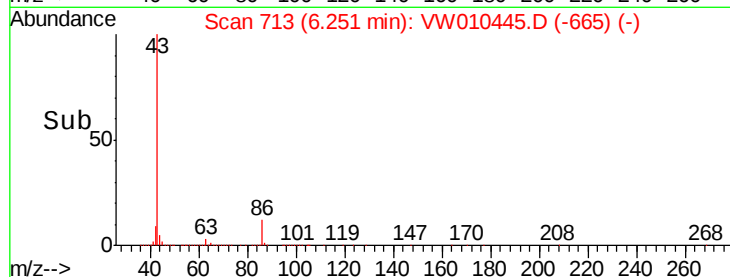
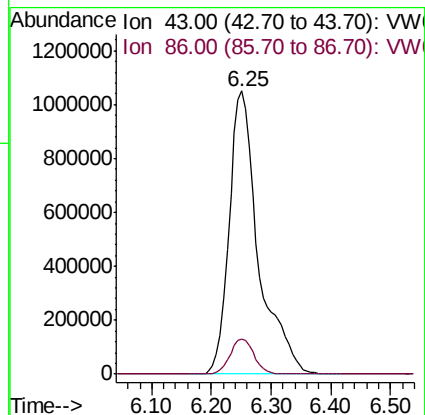
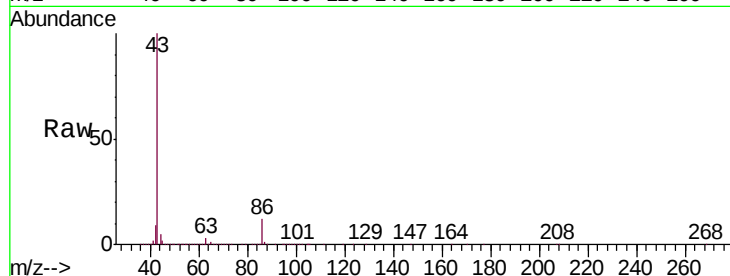
VSTDCCC050EC

Tgt Ion: 43 Resp: 3583944

Ion Ratio Lower Upper

43 100

86 12.4 9.7 14.5



#24

1,1-Dichloroethane

Concen: 54.564 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

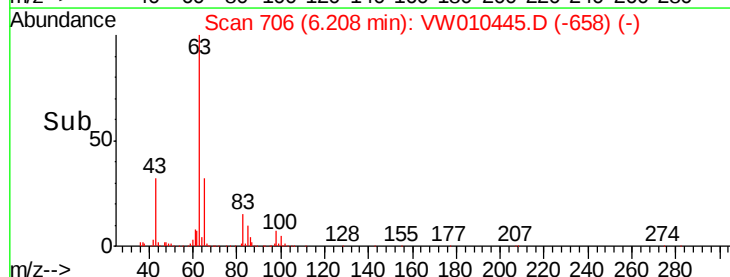
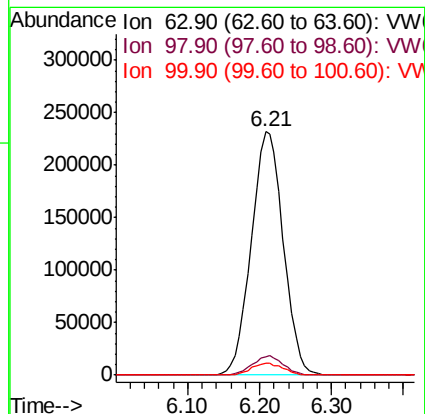
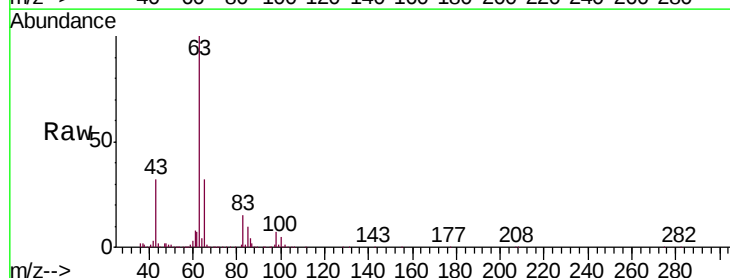
Tgt Ion: 63 Resp: 715484

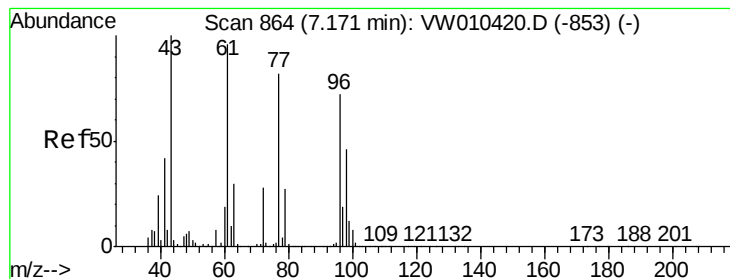
Ion Ratio Lower Upper

63 100

98 7.3 4.0 12.0

100 5.0 2.4 7.2





#25

2-Butanone

Concen: 319.782 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

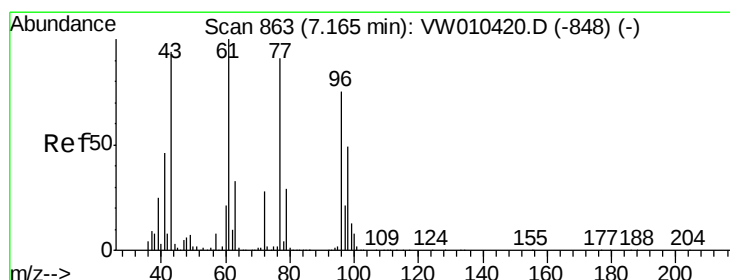
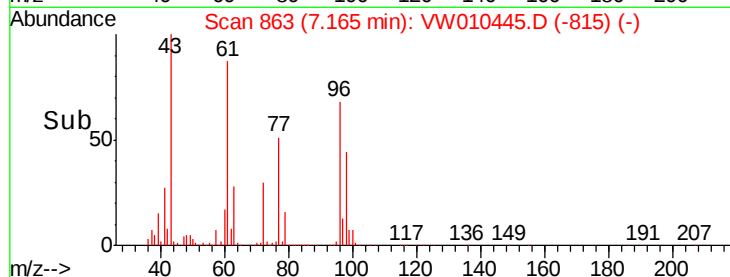
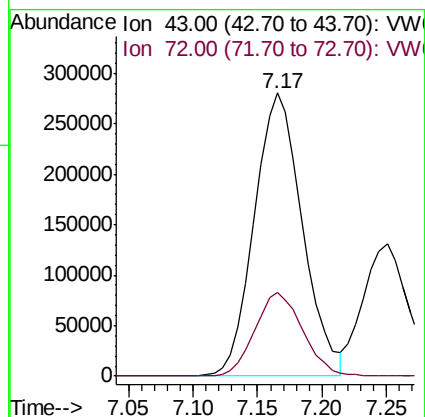
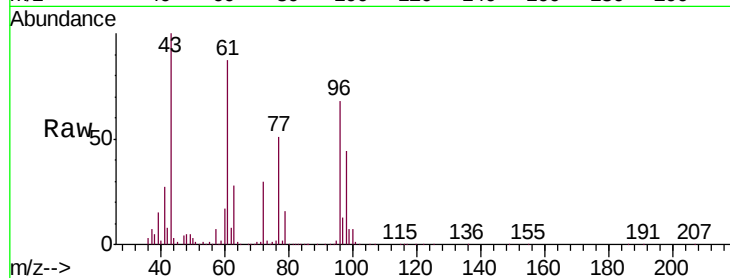
VSTDCCC050EC

Tgt Ion: 43 Resp: 722437

Ion Ratio Lower Upper

43 100

72 29.7 22.6 33.8



#26

2,2-Dichloropropane

Concen: 34.930 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW010445.D

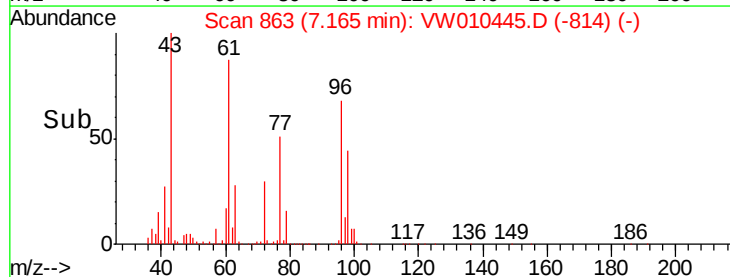
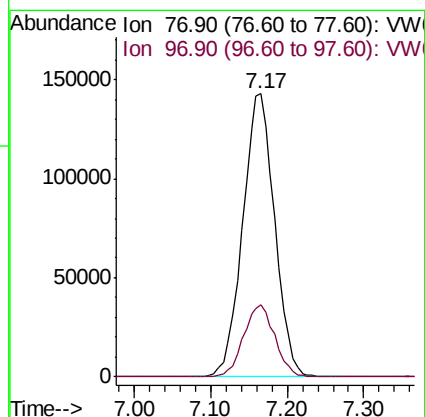
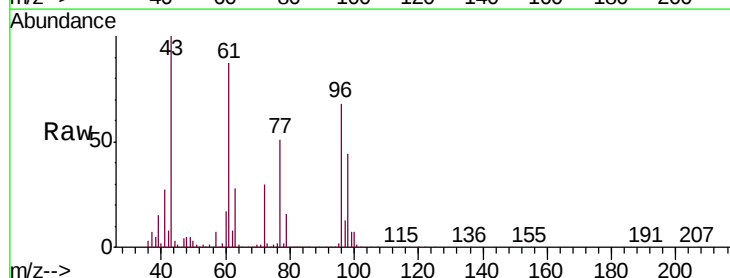
Acq: 18 May 2019 08:08

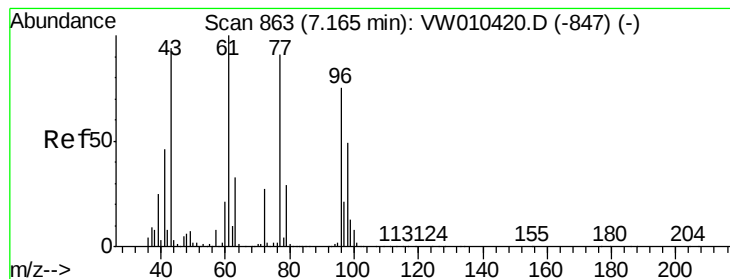
Tgt Ion: 77 Resp: 413340

Ion Ratio Lower Upper

77 100

97 25.0 11.7 35.1



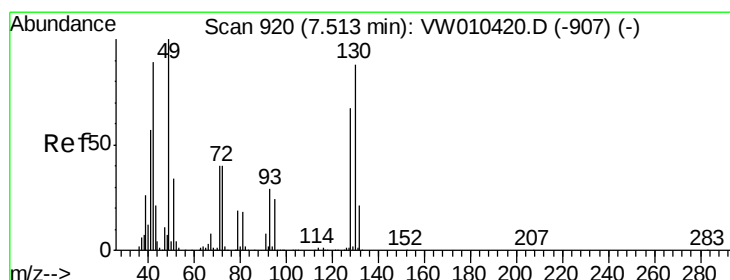
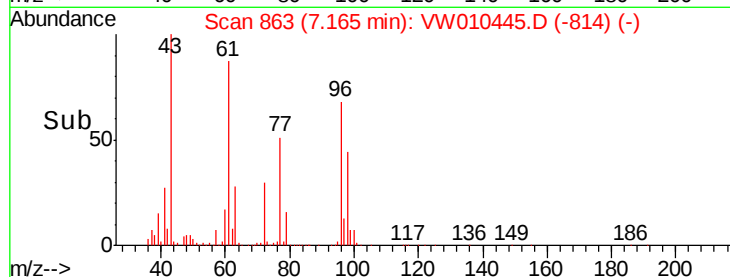
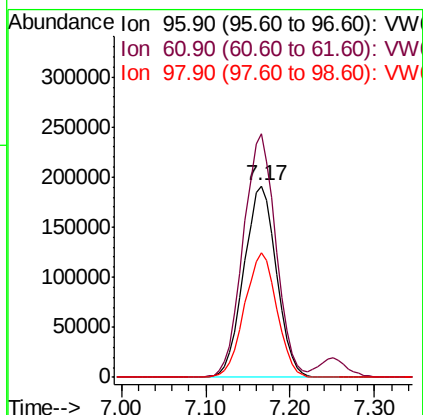
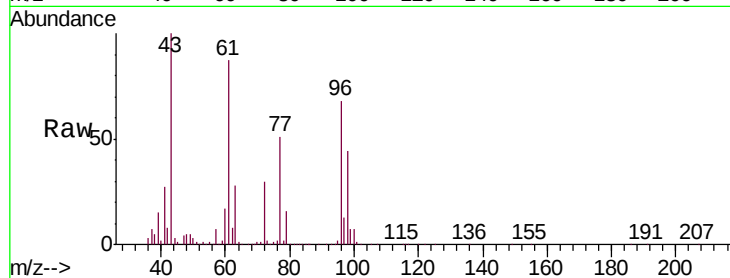


#27

cis-1,2-Dichloroethene  
Concen: 56.315 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

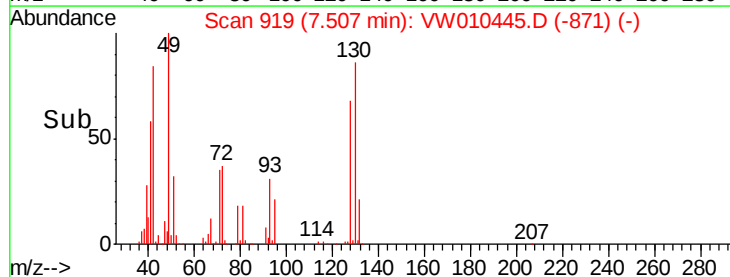
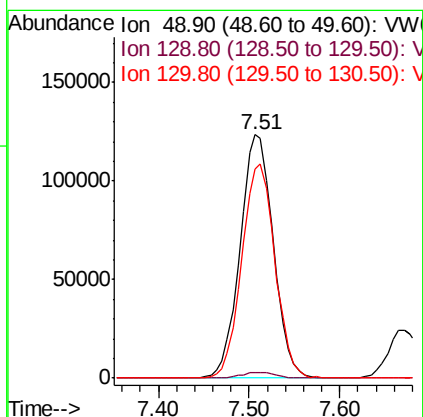
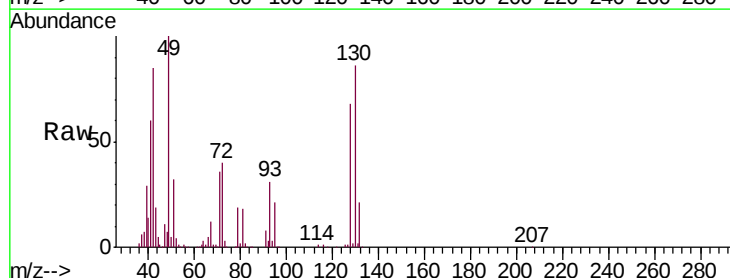
Tgt Ion: 96 Resp: 503926  
Ion Ratio Lower Upper  
96 100  
61 127.2 0.0 266.4  
98 64.6 0.0 129.6

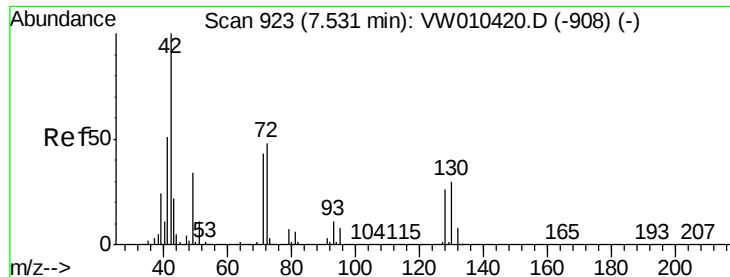


#28

Bromochloromethane  
Concen: 63.610 ug/l  
RT: 7.51 min Scan# 919  
Delta R.T. -0.01 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion: 49 Resp: 313380  
Ion Ratio Lower Upper  
49 100  
129 2.4 0.0 4.6  
130 87.6 68.2 102.4





#29

Tetrahydrofuran

Concen: 320.045 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

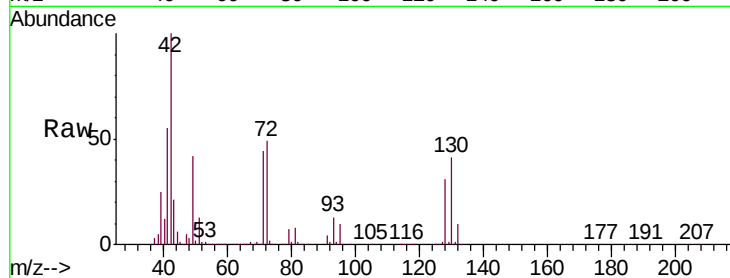
Tgt Ion: 42 Resp: 489289

Ion Ratio Lower Upper

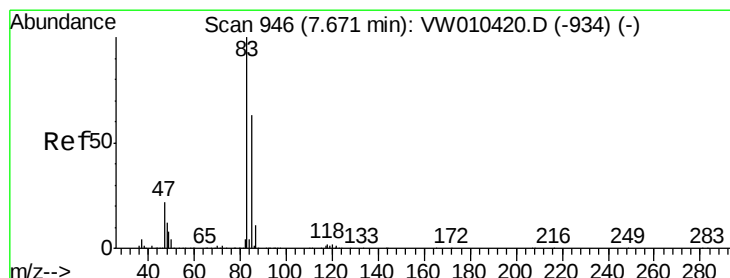
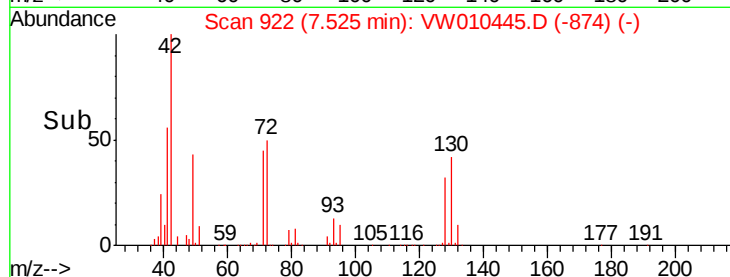
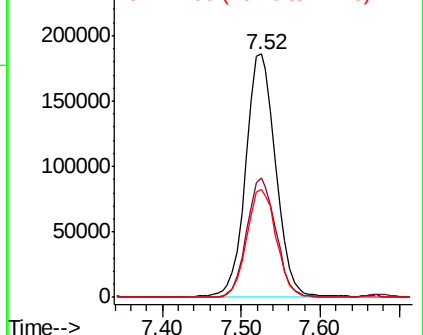
42 100

72 48.1 38.2 57.2

71 44.3 36.0 54.0



Abundance Ion 42.00 (41.70 to 42.70): VW  
 250000 Ion 72.00 (71.70 to 72.70): VW  
 Ion 71.00 (70.70 to 71.70): VW



#30

Chloroform

Concen: 56.900 ug/l

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW010445.D

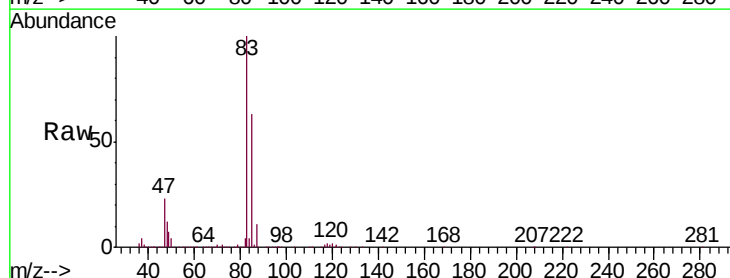
Acq: 18 May 2019 08:08

Tgt Ion: 83 Resp: 784725

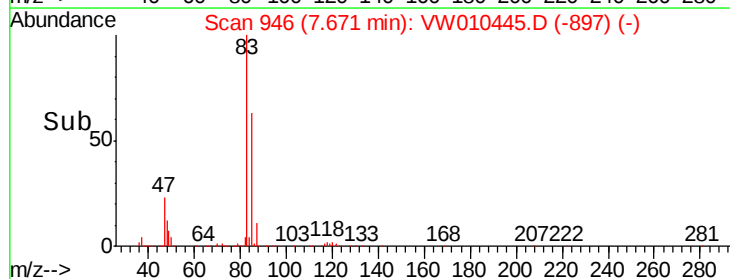
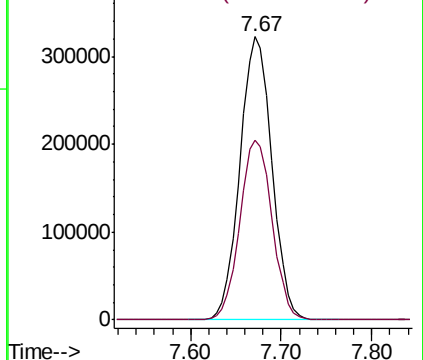
Ion Ratio Lower Upper

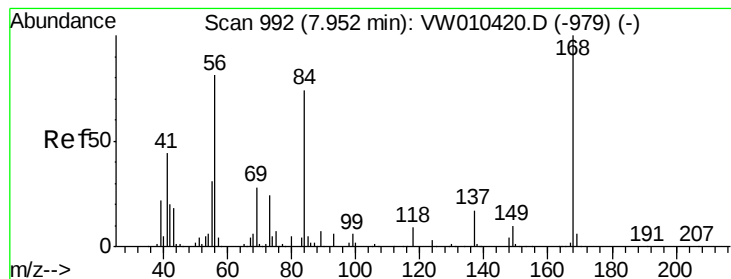
83 100

85 63.3 50.8 76.2



Abundance Ion 82.90 (82.60 to 83.60): VW  
 Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 46.425 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

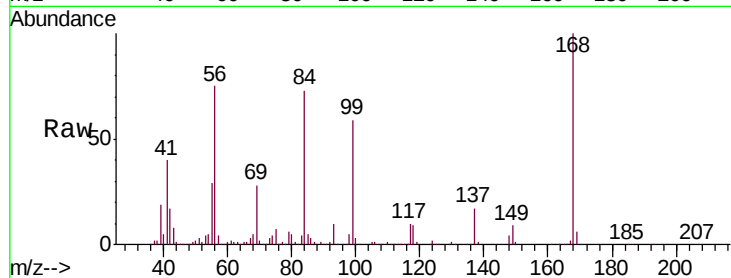
Tgt Ion: 56 Resp: 540529

Ion Ratio Lower Upper

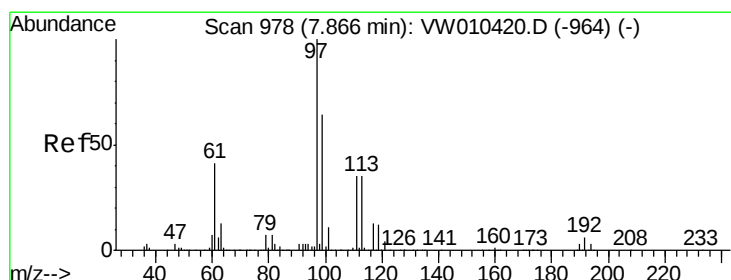
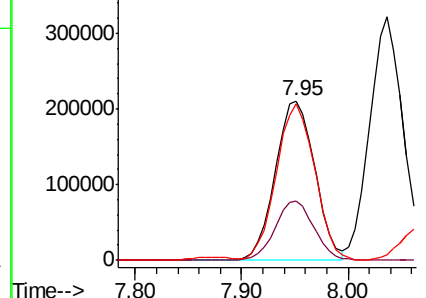
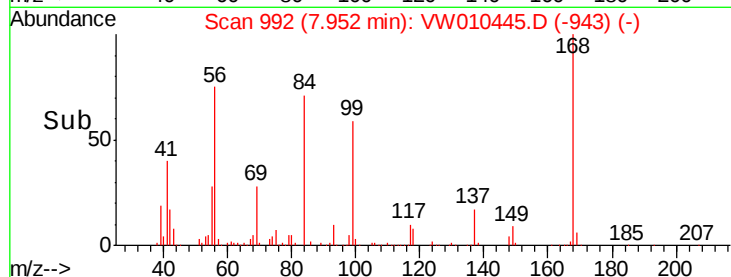
56 100

69 36.9 27.6 41.4

84 96.9 72.9 109.3



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW



#32

1,1,1-Trichloroethane

Concen: 50.161 ug/l

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

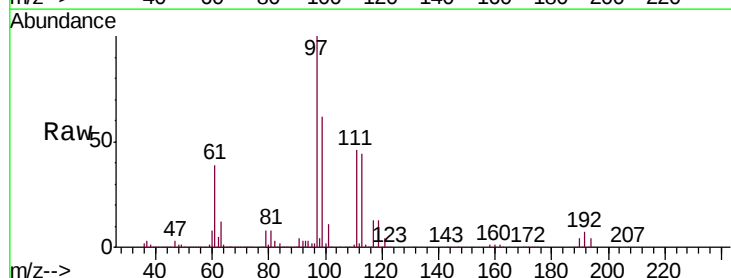
Tgt Ion: 97 Resp: 652324

Ion Ratio Lower Upper

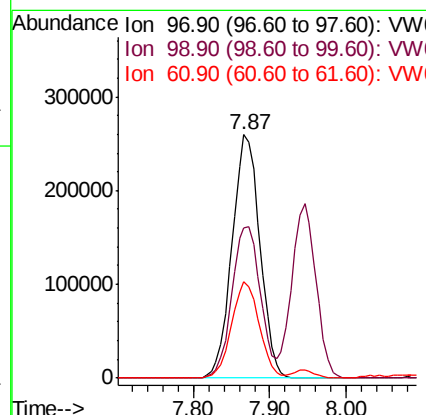
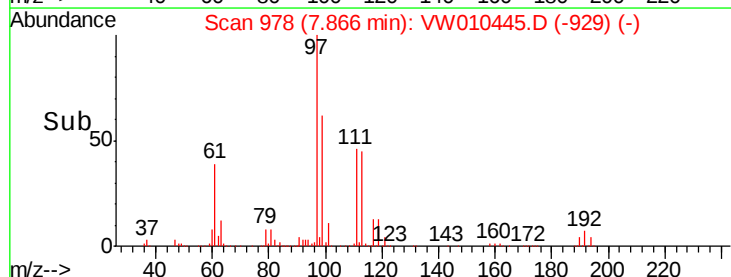
97 100

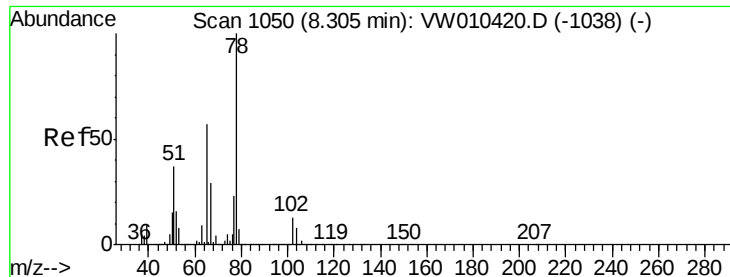
99 64.3 51.4 77.2

61 39.6 32.0 48.0



Abundance Ion 96.90 (96.60 to 97.60): VW  
Ion 98.90 (98.60 to 99.60): VW  
Ion 60.90 (60.60 to 61.60): VW

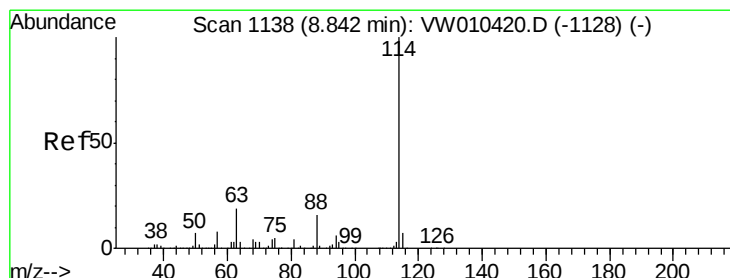
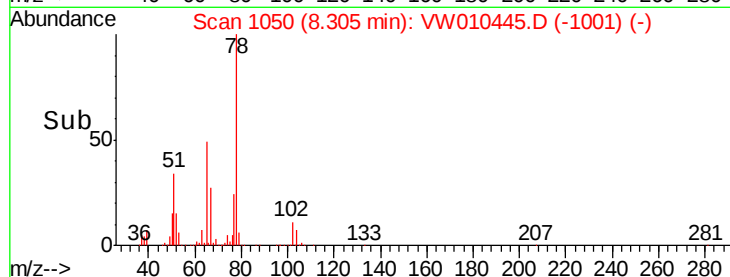
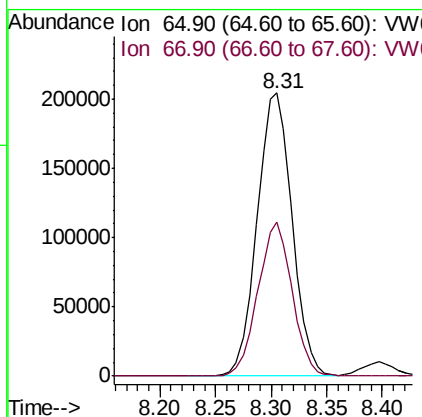
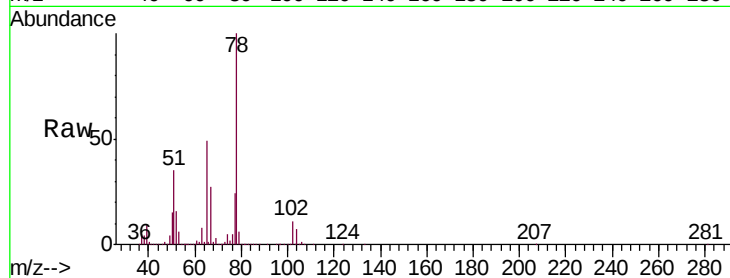




#33  
 1,2-Dichloroethane-d4  
 Concen: 59.438 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

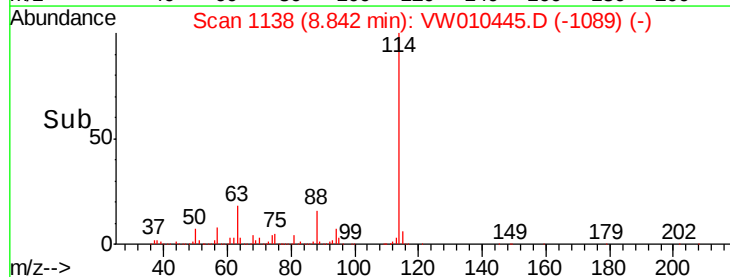
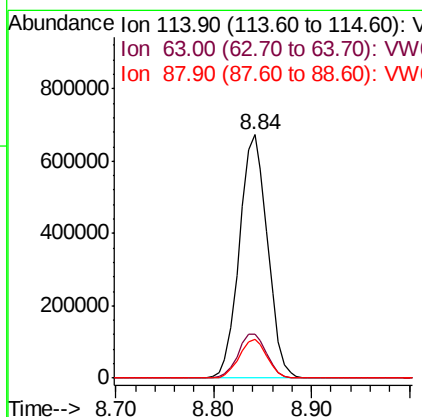
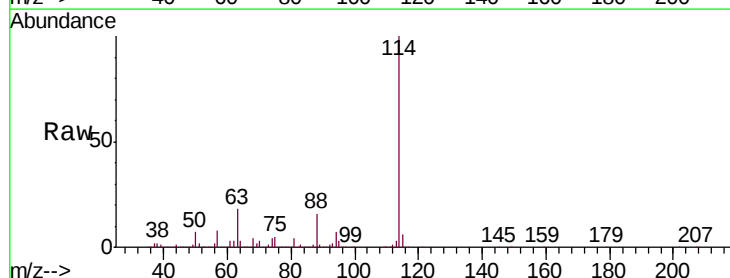
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

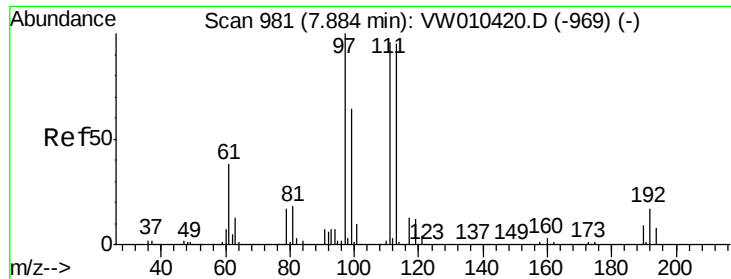
Tgt Ion: 65 Resp: 447190  
 Ion Ratio Lower Upper  
 65 100  
 67 53.1 0.0 104.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

Tgt Ion: 114 Resp: 1337834  
 Ion Ratio Lower Upper  
 114 100  
 63 18.1 0.0 38.8  
 88 15.9 0.0 31.6

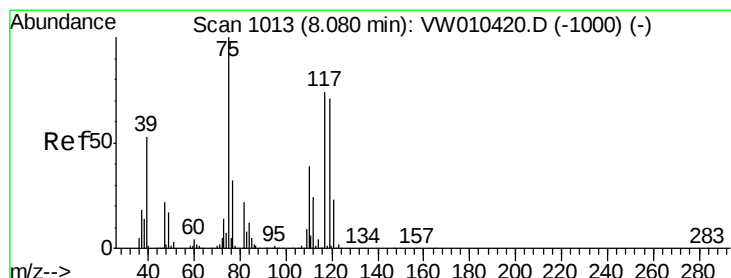
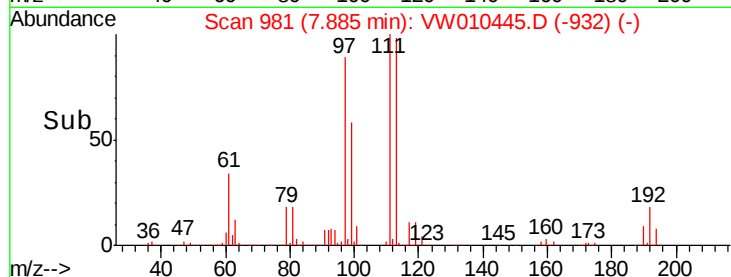
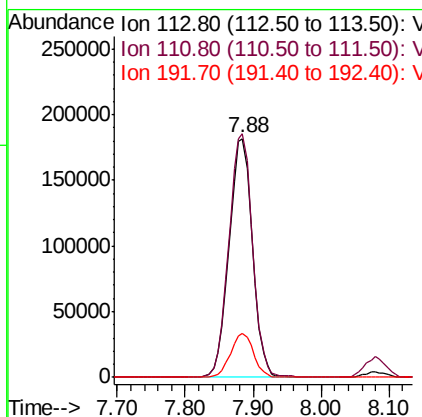
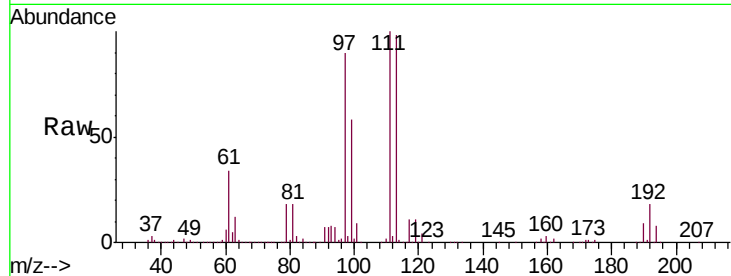




#35  
 Dibromofluoromethane  
 Concen: 52.418 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

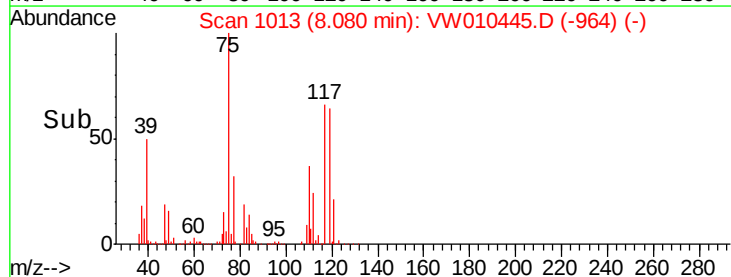
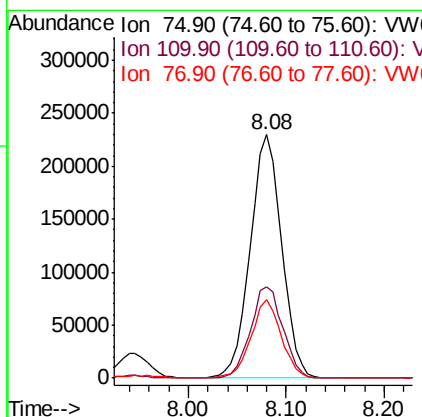
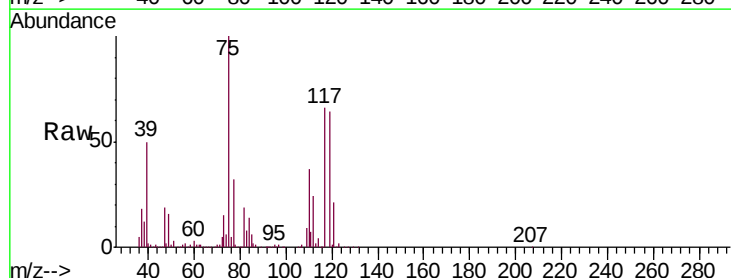
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

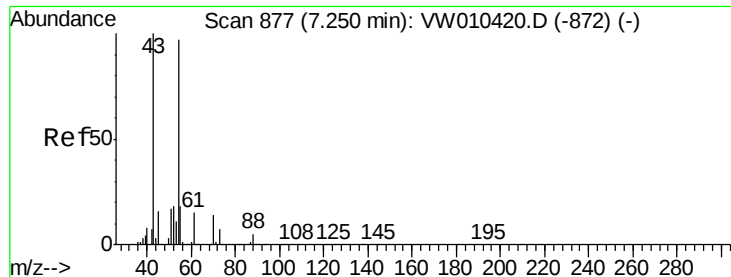
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 82.5  | 123.7 |
| 192     | 18.2  | 14.2  | 21.4  |



#36  
 1,1-Dichloropropene  
 Concen: 43.343 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 38.3  | 19.4  | 58.1  |
| 77      | 30.8  | 24.7  | 37.1  |

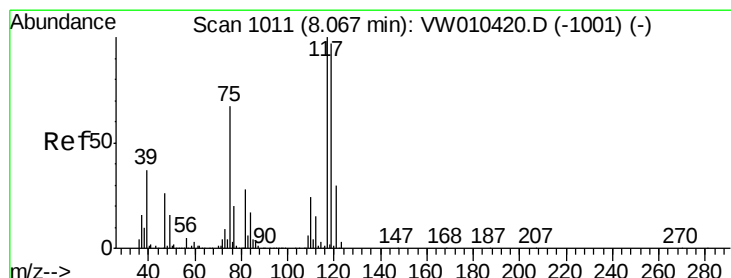
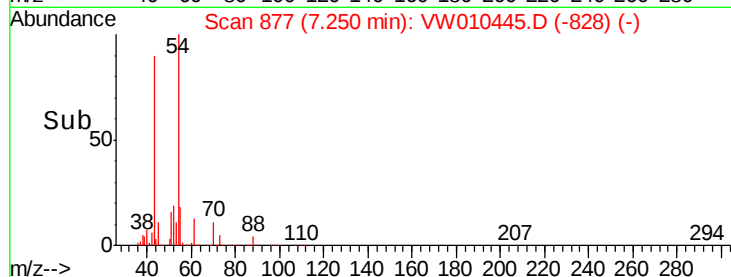
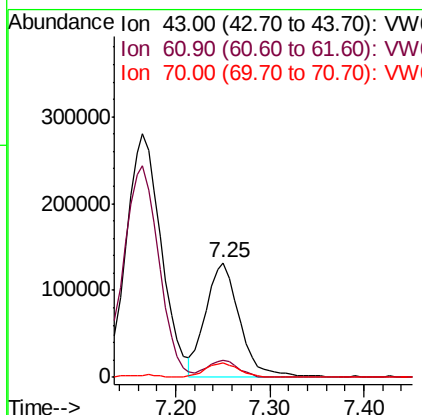
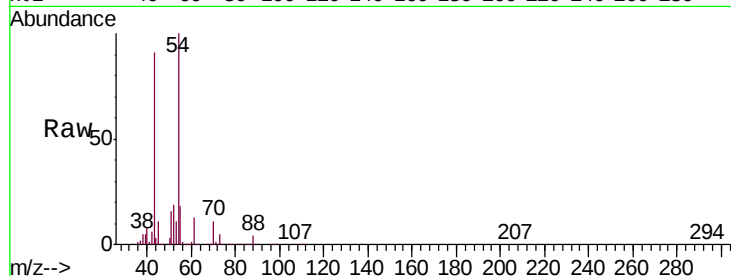




#37  
Ethyl Acetate  
Concen: 56.924 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

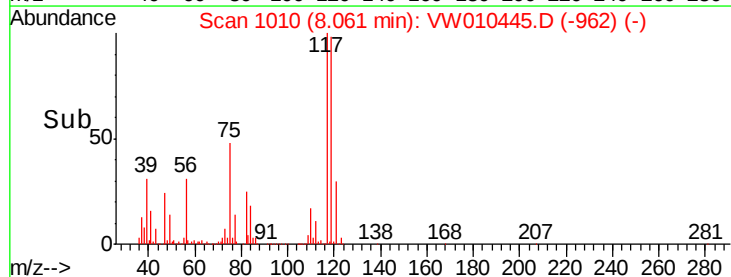
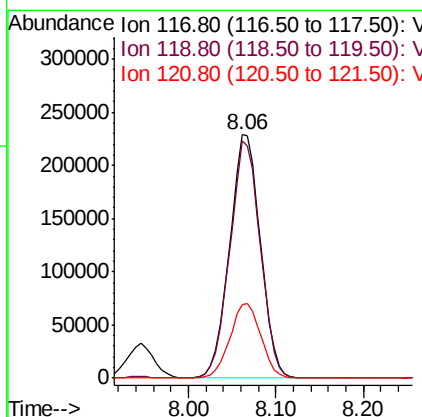
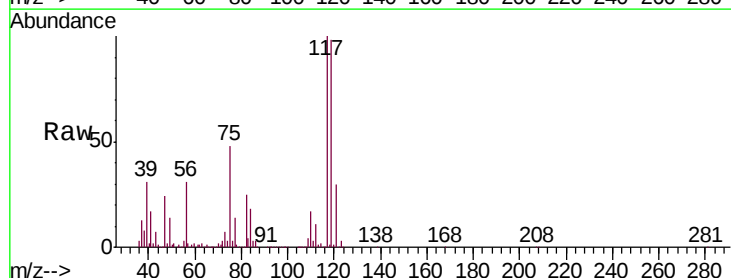
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

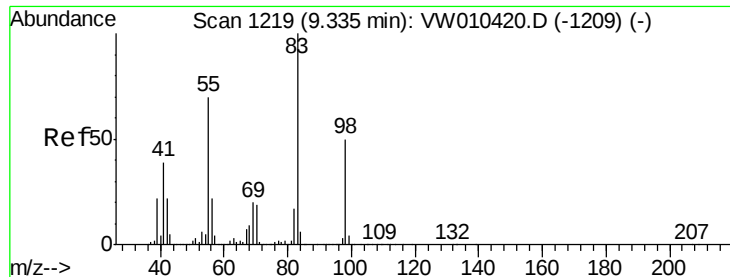
Tgt Ion: 43 Resp: 323478  
Ion Ratio Lower Upper  
43 100  
61 13.9 11.8 17.6  
70 12.1 9.4 14.0



#38  
Carbon Tetrachloride  
Concen: 43.693 ug/l  
RT: 8.06 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion: 117 Resp: 558473  
Ion Ratio Lower Upper  
117 100  
119 97.5 77.8 116.6  
121 30.2 24.2 36.2

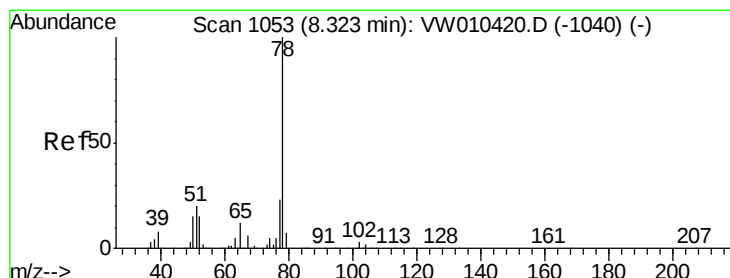
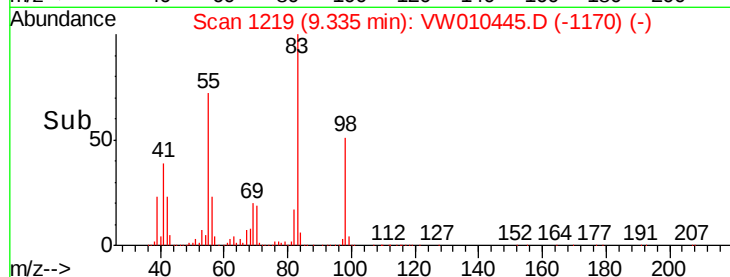
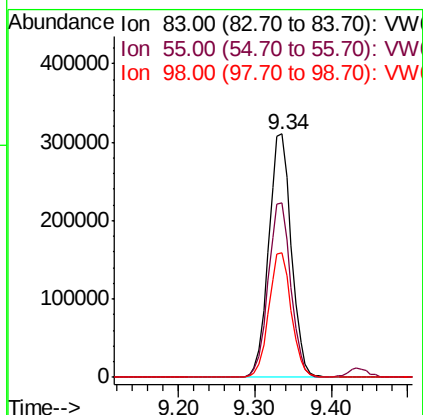
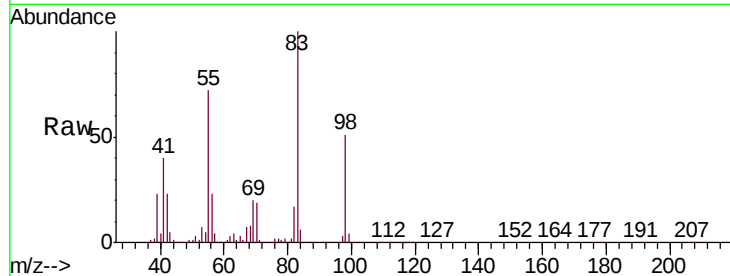




#39  
Methylcyclohexane  
Concen: 40.495 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

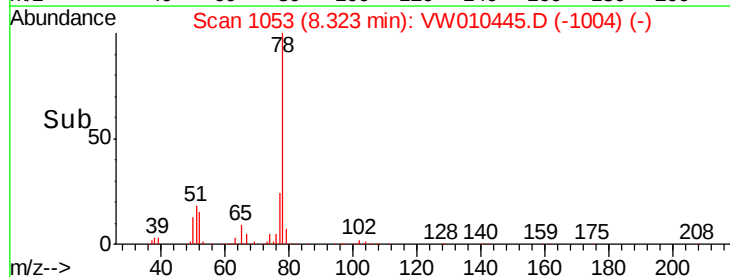
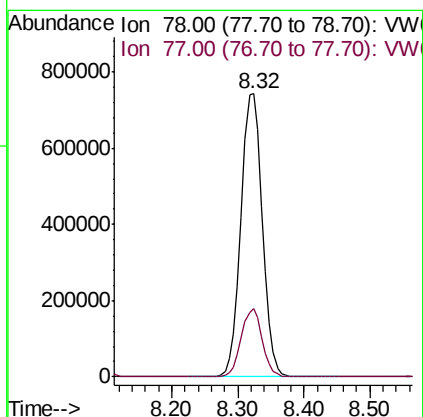
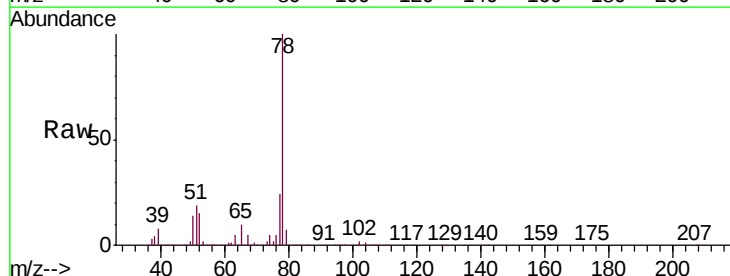
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

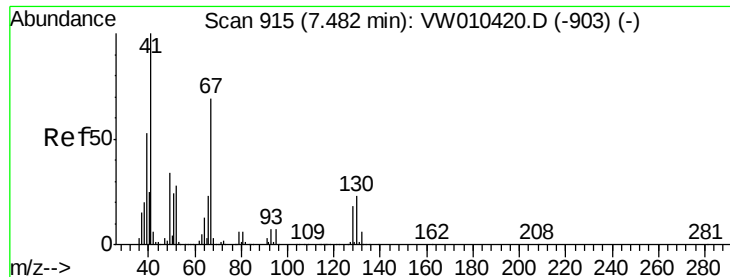
Tgt Ion: 83 Resp: 640488  
Ion Ratio Lower Upper  
83 100  
55 71.5 55.7 83.5  
98 51.3 40.2 60.4



#40  
Benzene  
Concen: 49.409 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion: 78 Resp: 1670097  
Ion Ratio Lower Upper  
78 100  
77 24.1 18.7 28.1





#41

Methacrylonitrile

Concen: 52.496 ug/l

RT: 7.48 min Scan# 914

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 41 Resp: 178638

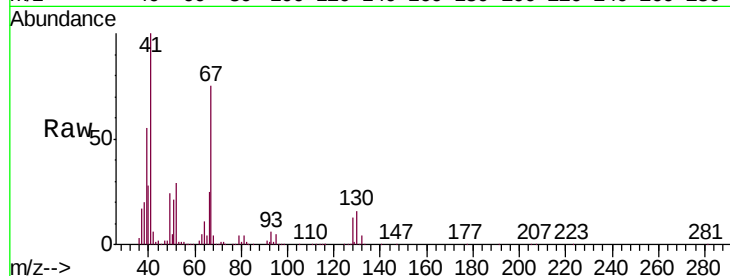
Ion Ratio Lower Upper

41 100

39 59.6 38.1 57.1#

67 82.2 55.5 83.3

52 31.6 22.1 33.1



Abundance

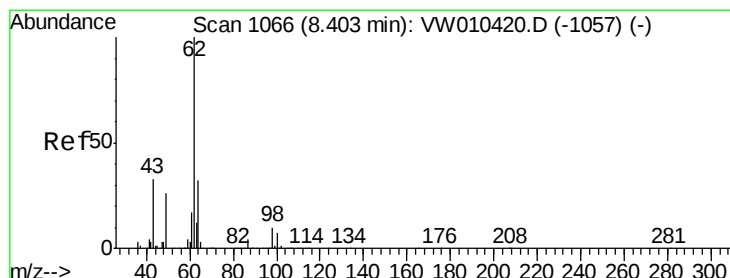
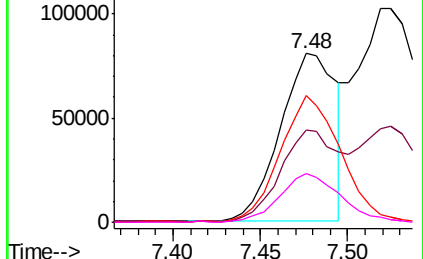
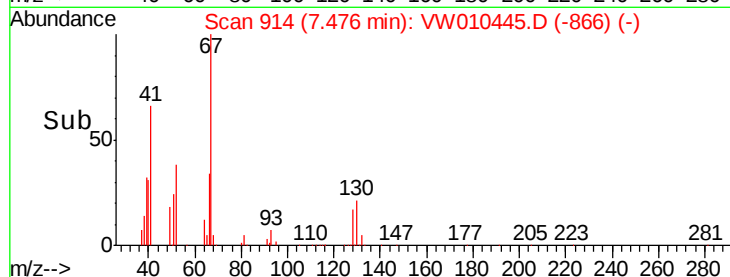
Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW

Time-->



#42

1,2-Dichloroethane

Concen: 53.728 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW010445.D

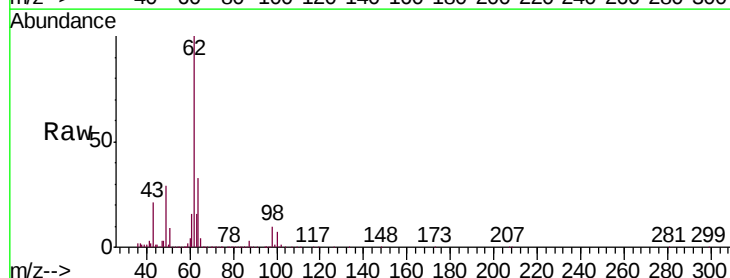
Acq: 18 May 2019 08:08

Tgt Ion: 62 Resp: 541105

Ion Ratio Lower Upper

62 100

98 10.3 0.0 20.2

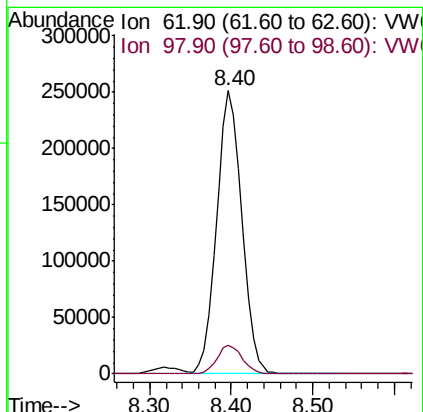
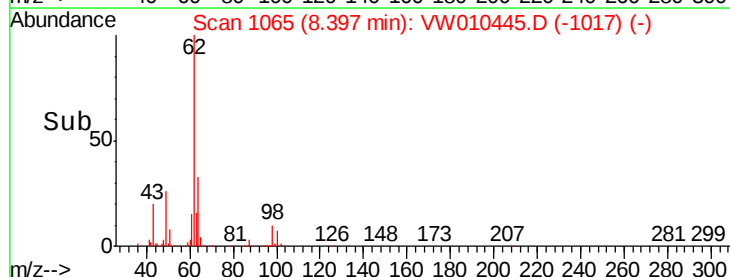


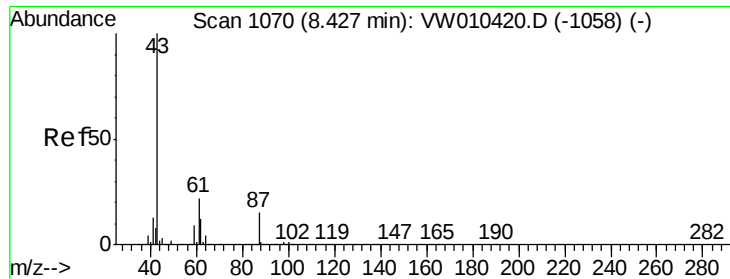
Abundance

Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW

Time-->





#43

Isopropyl Acetate

Concen: 55.068 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

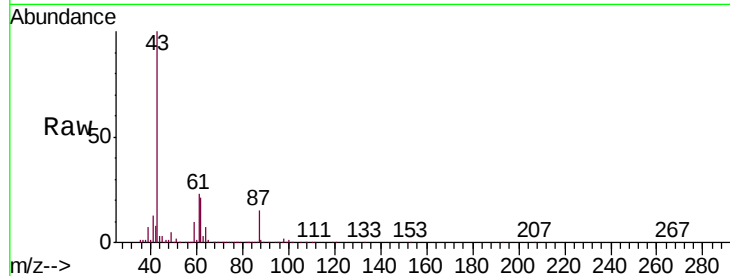
Tgt Ion: 43 Resp: 637265

Ion Ratio Lower Upper

43 100

61 30.4 24.4 36.6

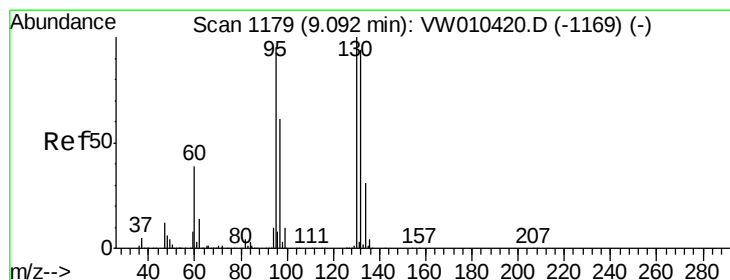
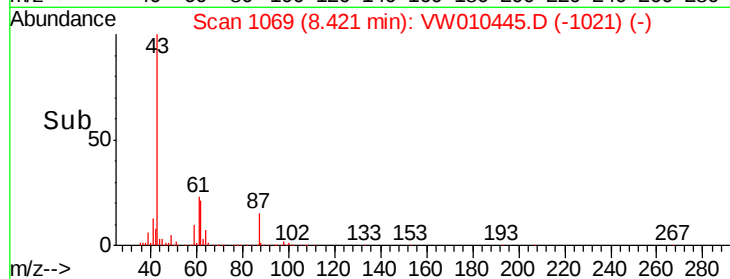
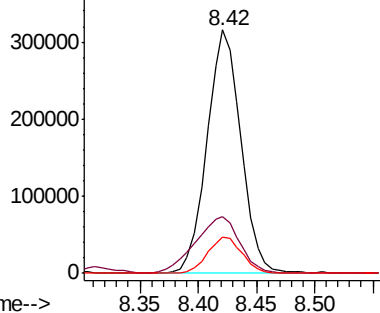
87 15.2 11.8 17.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 49.231 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW010445.D

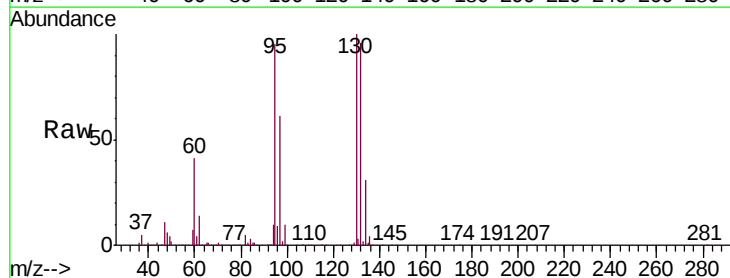
Acq: 18 May 2019 08:08

Tgt Ion: 130 Resp: 476767

Ion Ratio Lower Upper

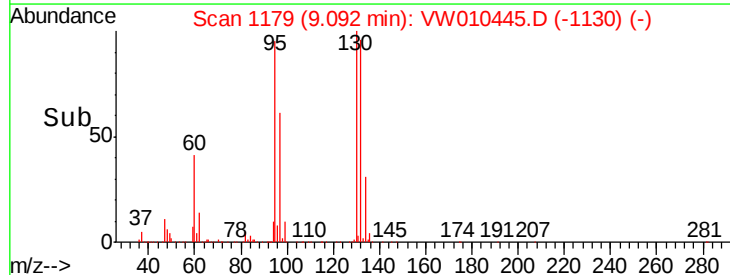
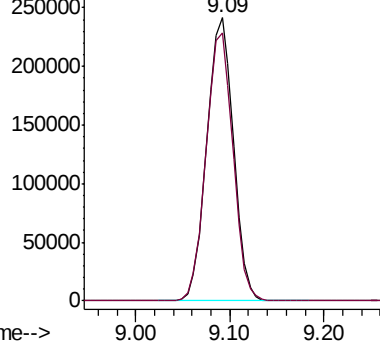
130 100

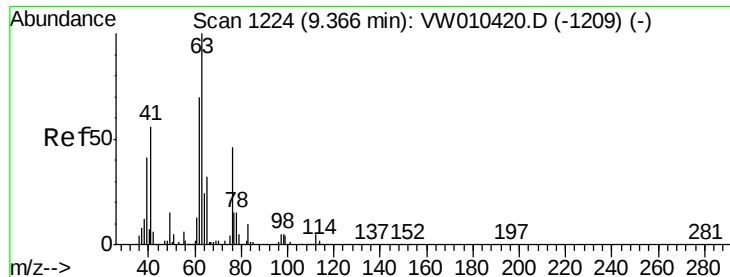
95 94.8 0.0 190.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 52.173 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

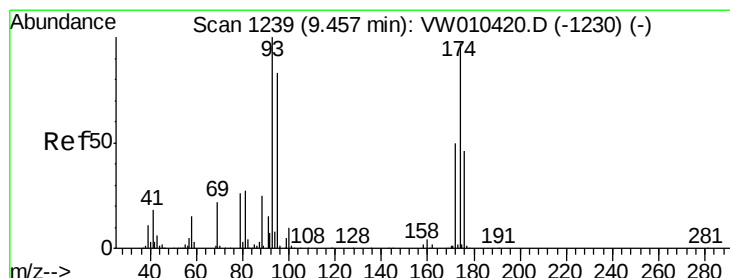
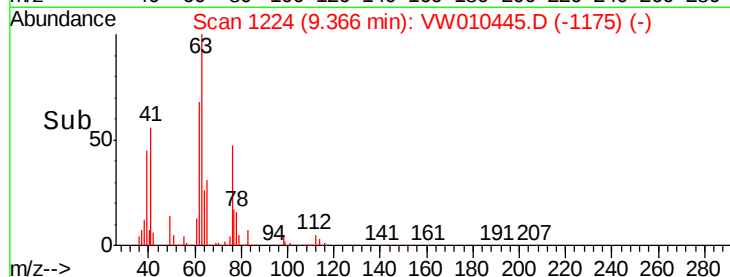
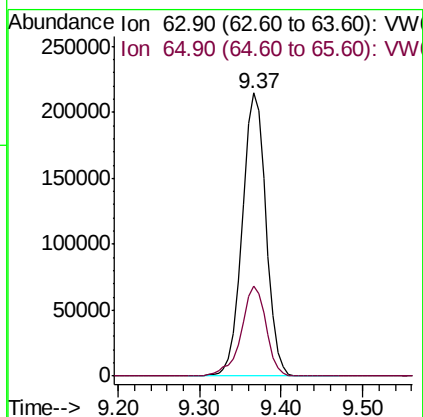
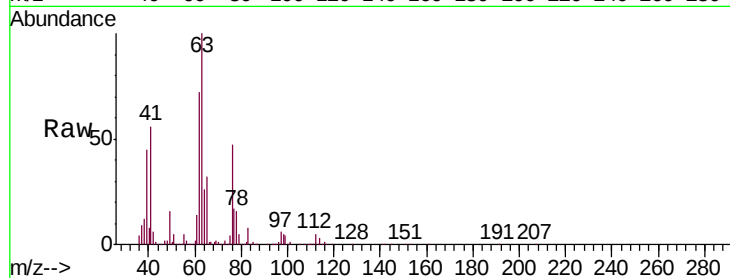
VSTDCCC050EC

Tgt Ion: 63 Resp: 431701

Ion Ratio Lower Upper

63 100

65 31.6 25.4 38.2



#46

Dibromomethane

Concen: 54.793 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

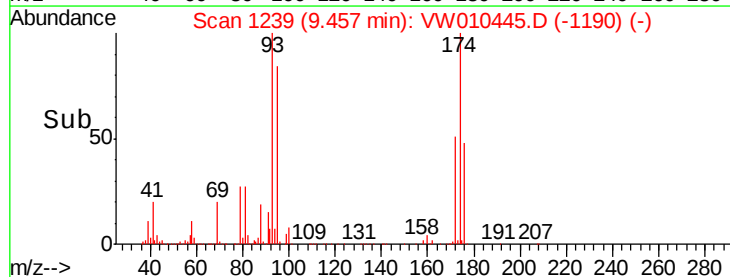
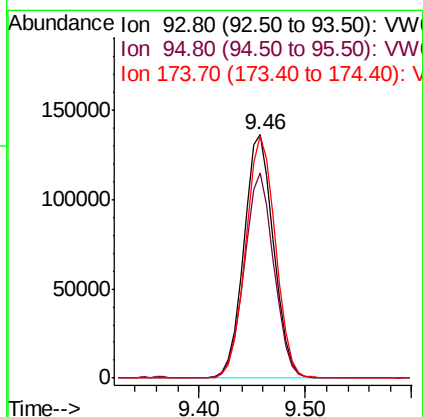
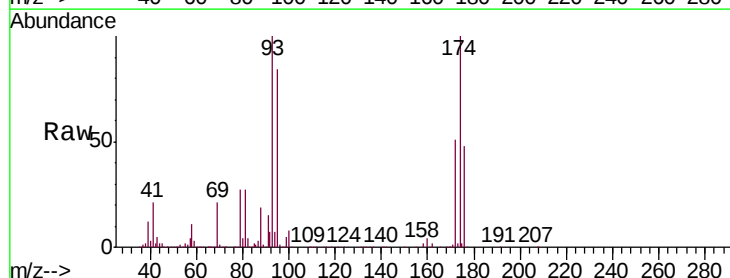
Tgt Ion: 93 Resp: 267821

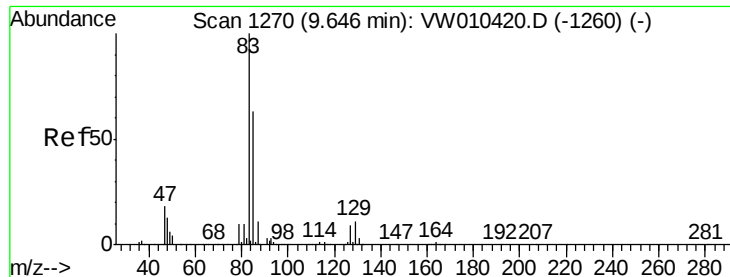
Ion Ratio Lower Upper

93 100

95 83.1 66.6 100.0

174 99.7 76.4 114.6





#47

Bromodichloromethane

Concen: 53.081 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

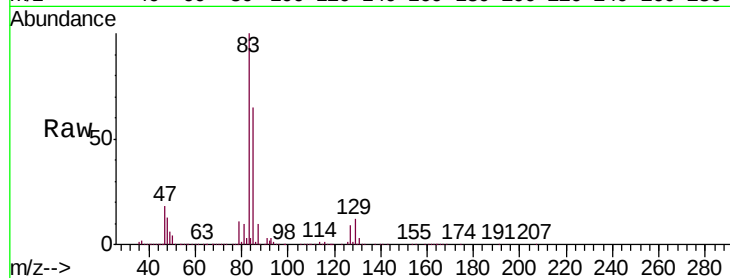
Tgt Ion: 83 Resp: 644726

Ion Ratio Lower Upper

83 100

85 64.9 50.0 75.0

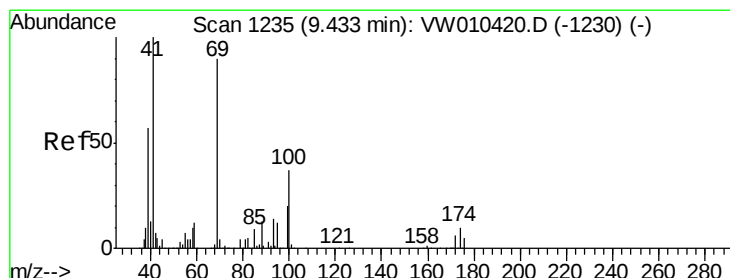
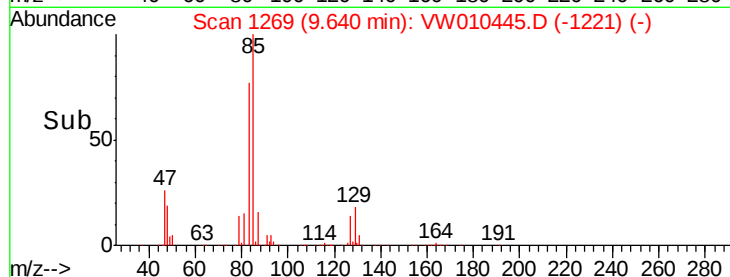
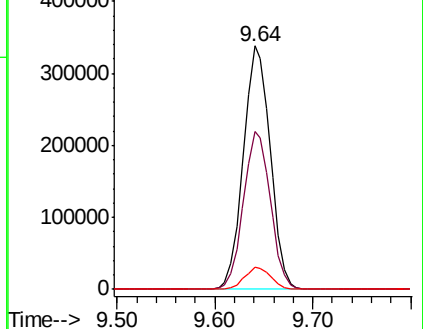
127 8.9 7.3 10.9



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): VW



#48

Methyl methacrylate

Concen: 53.798 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

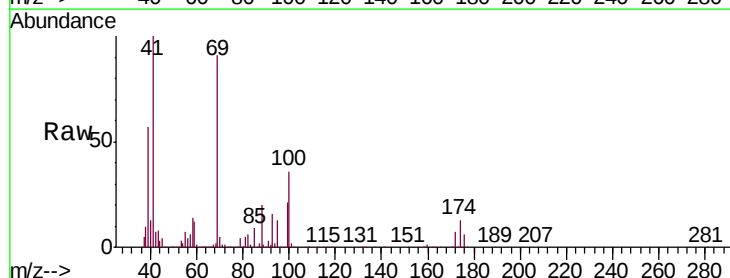
Tgt Ion: 41 Resp: 286873

Ion Ratio Lower Upper

41 100

69 95.4 75.2 112.8

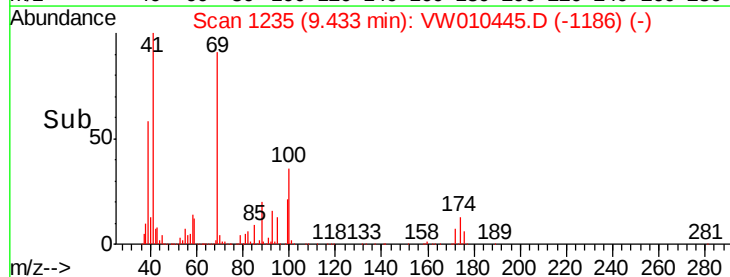
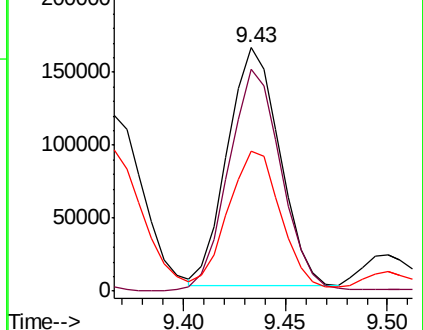
39 60.7 46.8 70.2

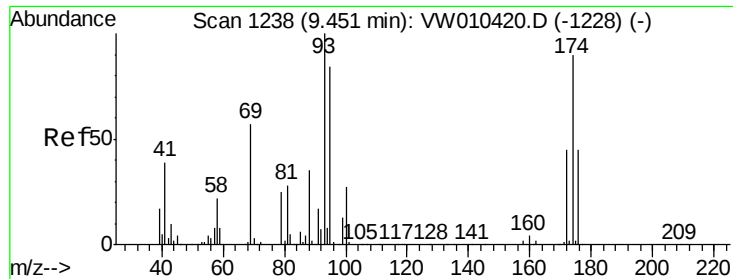


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 1238.761 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

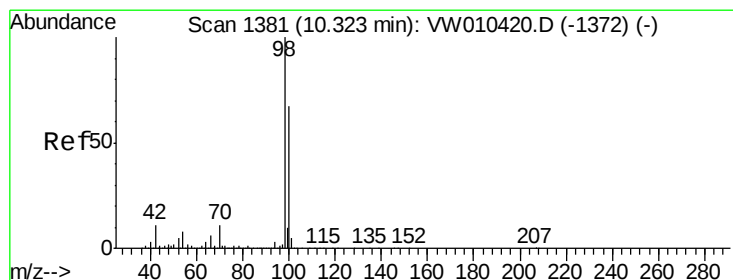
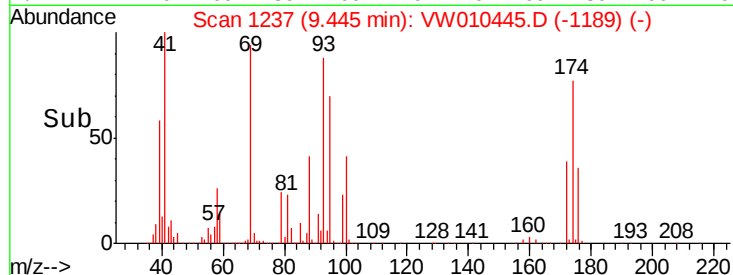
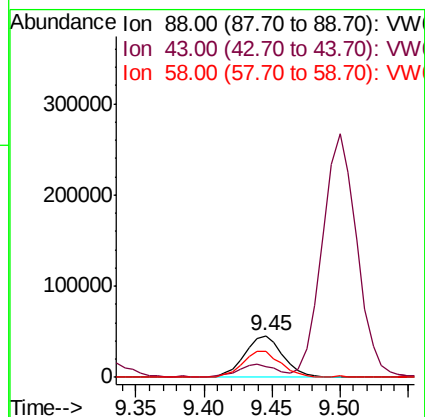
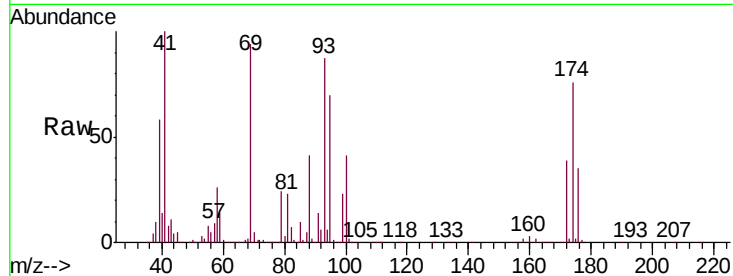
Tgt Ion: 88 Resp: 89610

Ion Ratio Lower Upper

88 100

43 30.2 24.9 37.3

58 63.7 55.0 82.6



#50

Toluene-d8

Concen: 50.475 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW010445.D

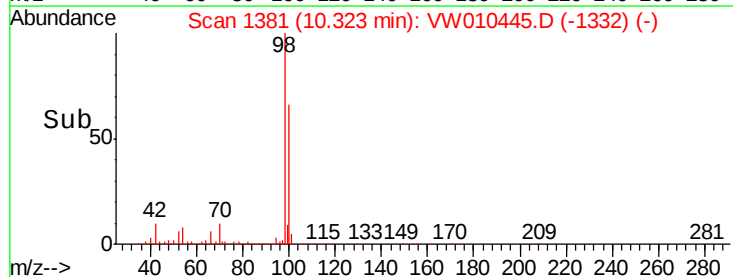
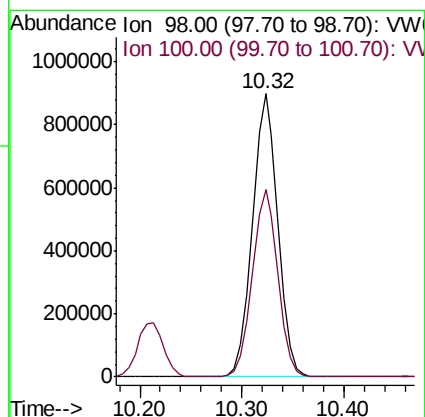
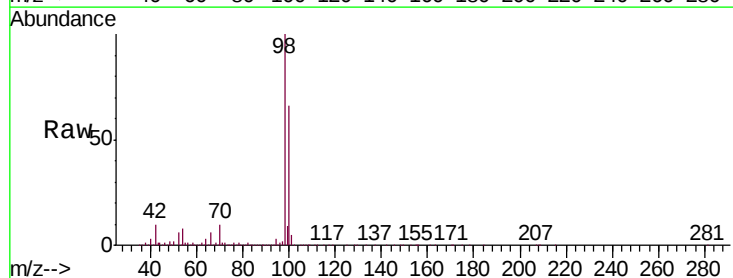
Acq: 18 May 2019 08:08

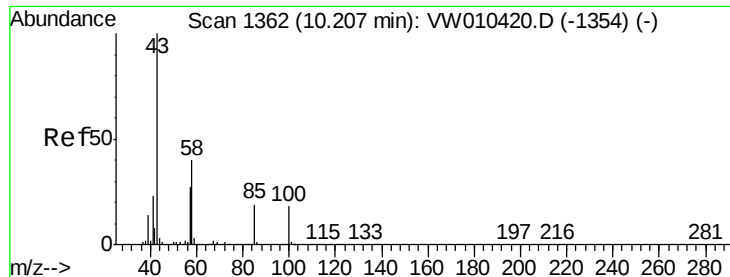
Tgt Ion: 98 Resp: 1555301

Ion Ratio Lower Upper

98 100

100 66.5 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 280.223 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

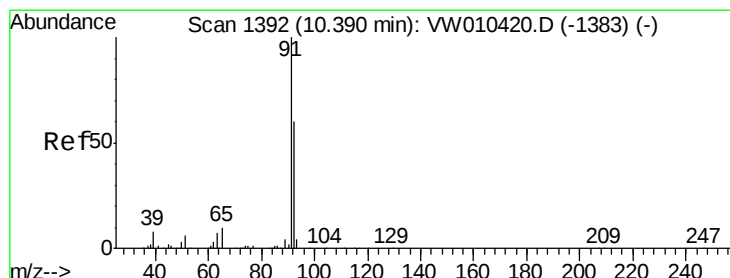
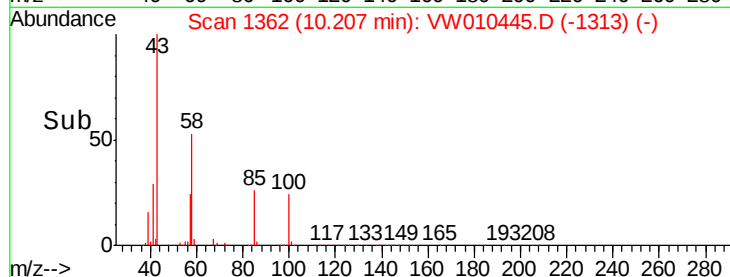
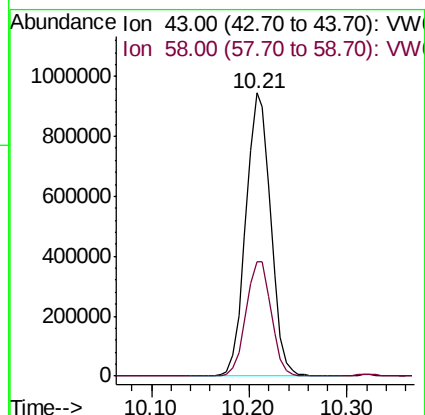
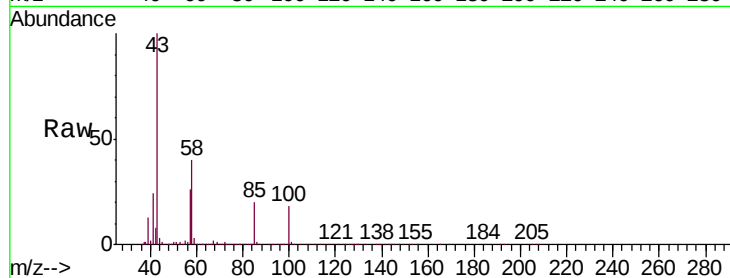
VSTDCCC050EC

Tgt Ion: 43 Resp: 1658775

Ion Ratio Lower Upper

43 100

58 41.2 32.7 49.1



#52

Toluene

Concen: 48.702 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW010445.D

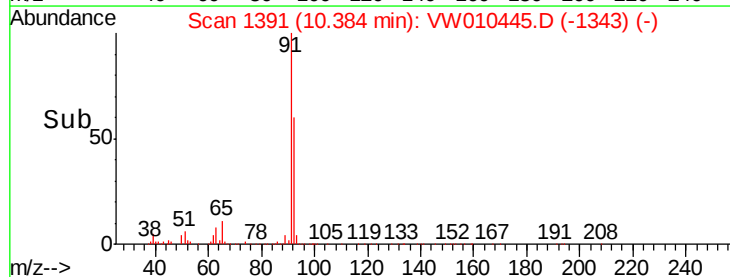
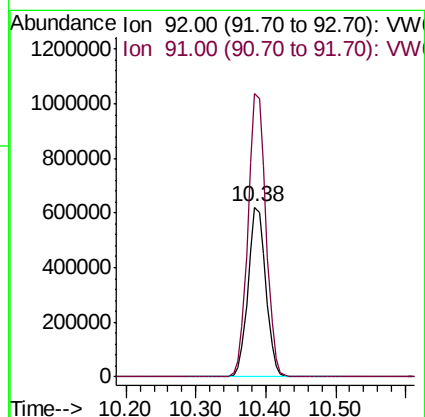
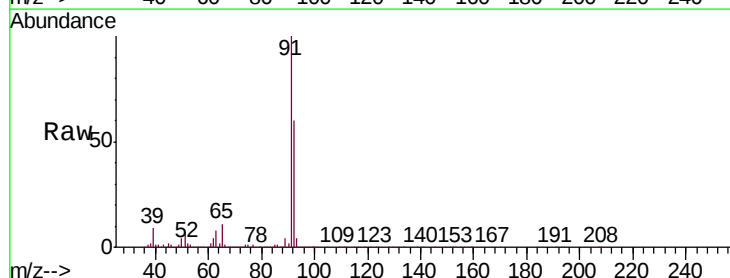
Acq: 18 May 2019 08:08

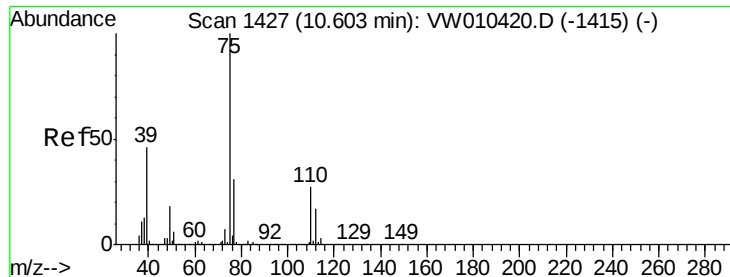
Tgt Ion: 92 Resp: 1093327

Ion Ratio Lower Upper

92 100

91 168.8 135.4 203.0





#53

t-1,3-Dichloropropene

Concen: 49.020 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

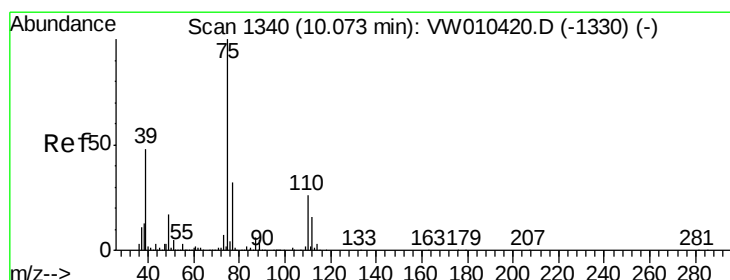
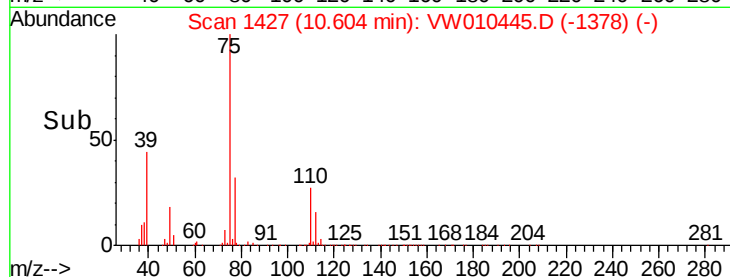
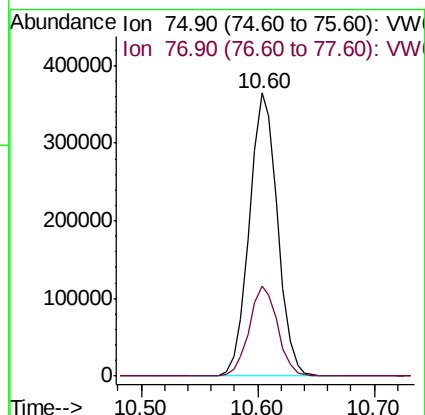
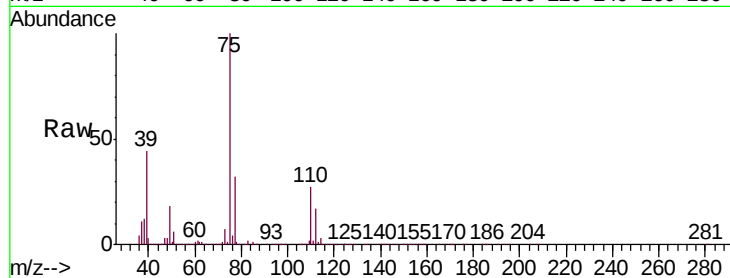
VSTDCCC050EC

Tgt Ion: 75 Resp: 614055

Ion Ratio Lower Upper

75 100

77 31.6 24.6 37.0



#54

cis-1,3-Dichloropropene

Concen: 48.139 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

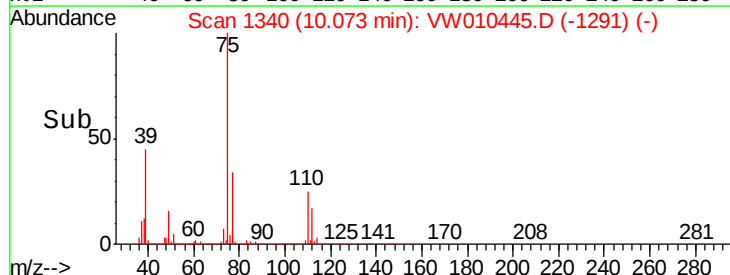
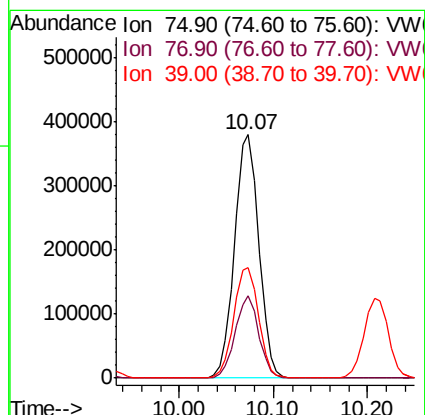
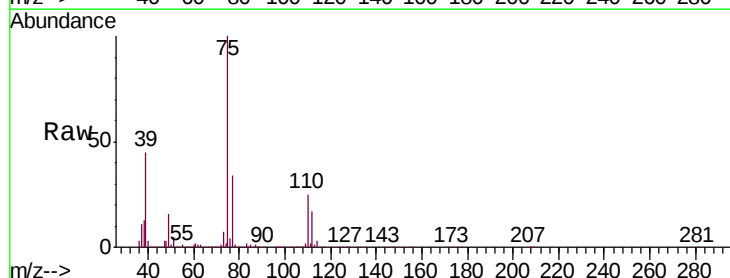
Tgt Ion: 75 Resp: 683655

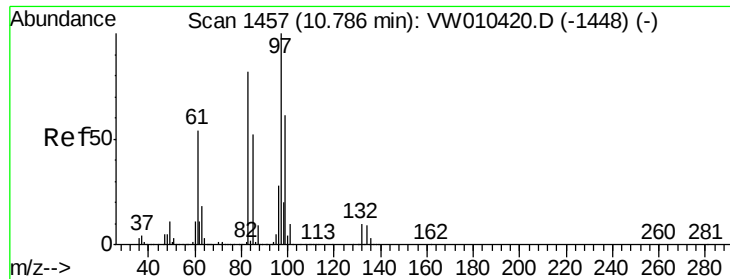
Ion Ratio Lower Upper

75 100

77 33.5 25.2 37.8

39 45.4 38.1 57.1

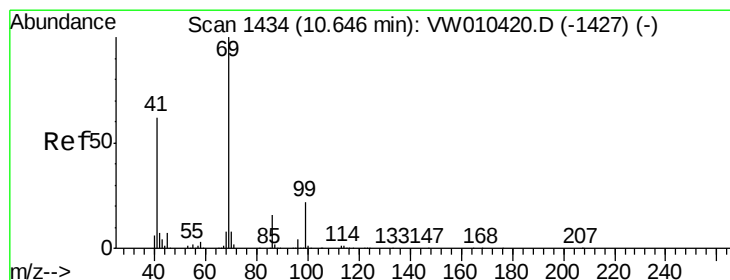
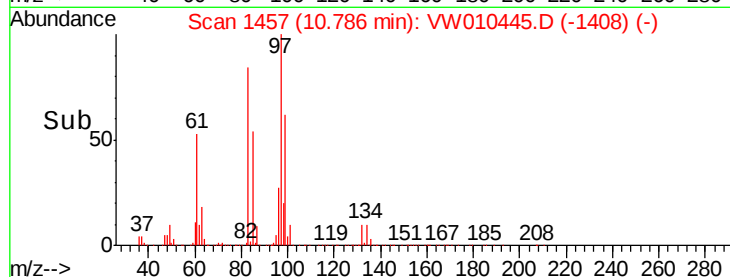
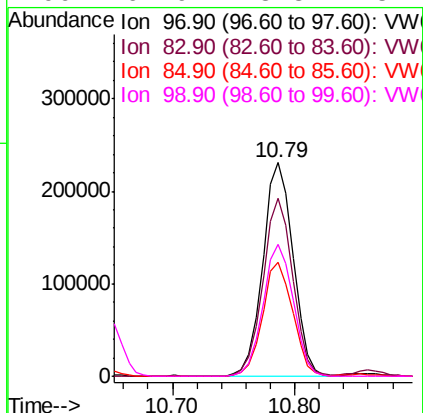
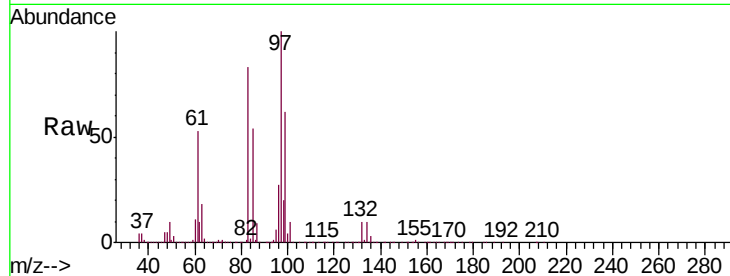




#55  
 1,1,2-Trichloroethane  
 Concen: 56.106 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

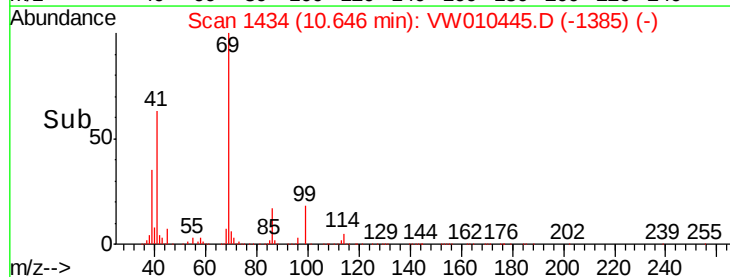
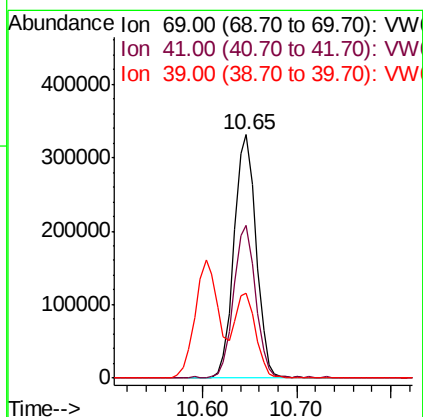
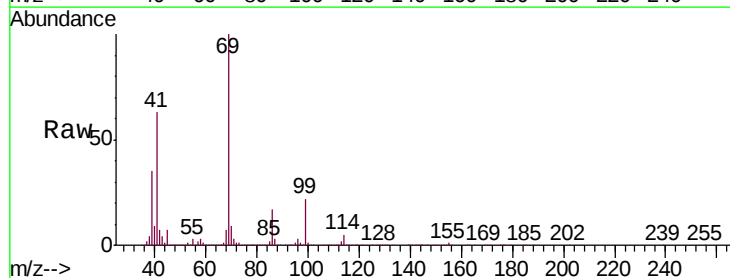
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

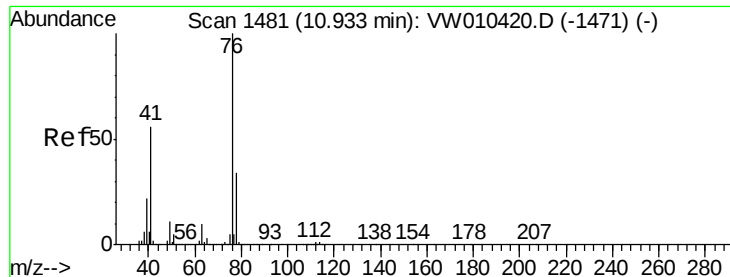
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 395676 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 83.5  | 65.6  | 98.4   |
| 85       | 53.5  | 41.6  | 62.4   |
| 99       | 61.9  | 48.8  | 73.2   |



#56  
 Ethyl methacrylate  
 Concen: 54.846 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 539721 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 62.8  | 50.0  | 75.0   |
| 39       | 32.0  | 26.5  | 39.7   |





#57

1,3-Dichloropropane

Concen: 55.300 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

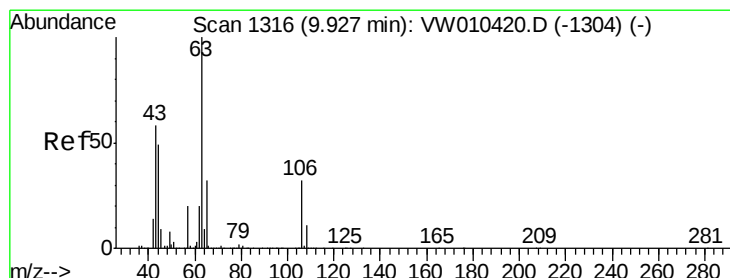
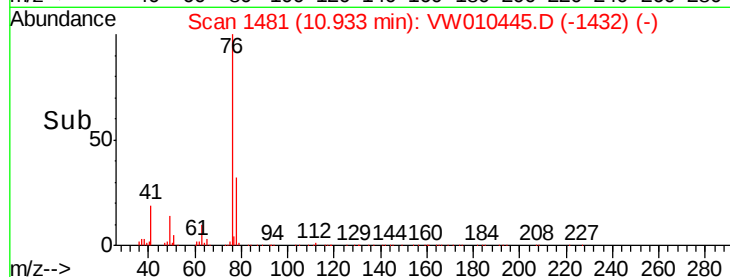
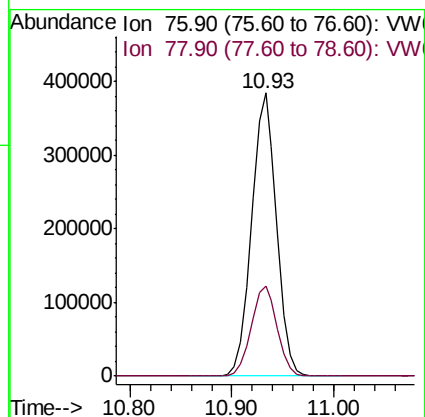
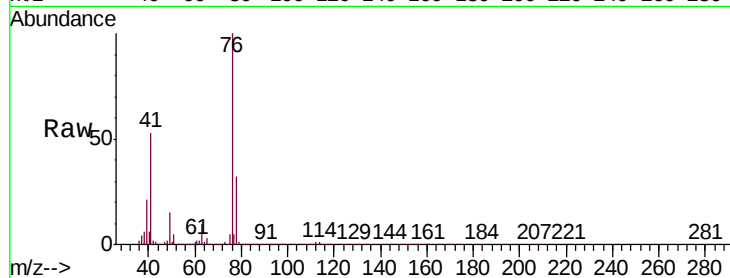
VSTDCCC050EC

Tgt Ion: 76 Resp: 653775

Ion Ratio Lower Upper

76 100

78 32.8 25.8 38.8



#58

2-Chloroethyl Vinyl ether

Concen: 274.534 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VW010445.D

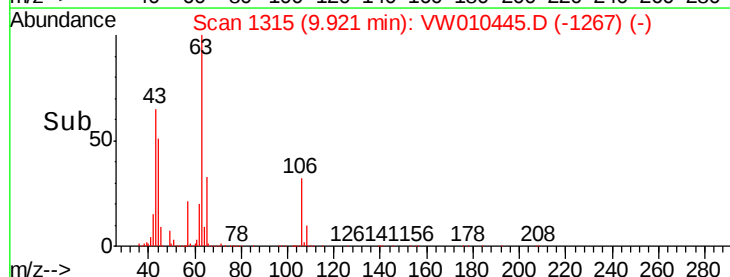
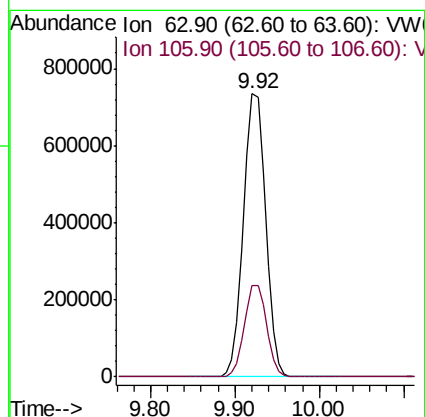
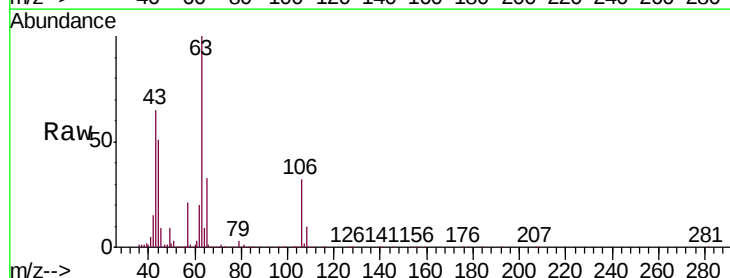
Acq: 18 May 2019 08:08

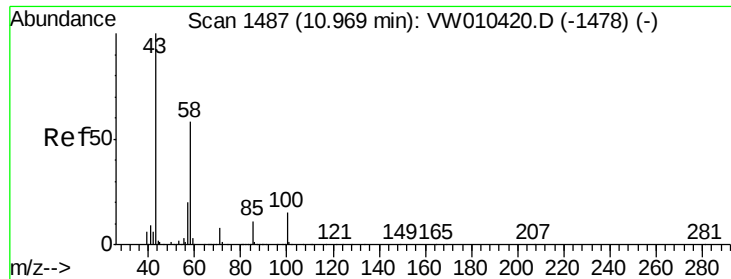
Tgt Ion: 63 Resp: 1298095

Ion Ratio Lower Upper

63 100

106 32.2 25.2 37.8

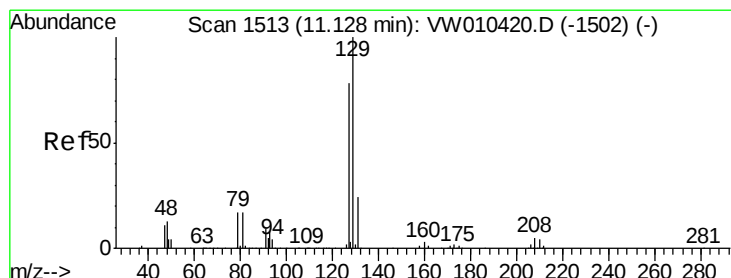
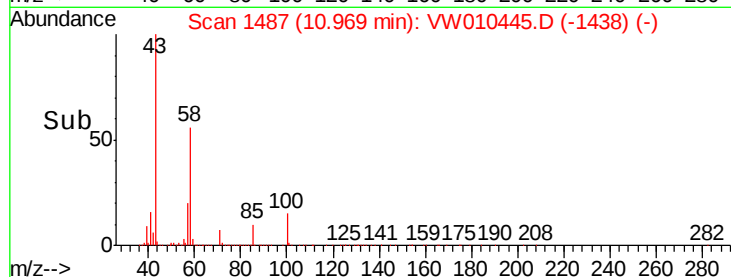
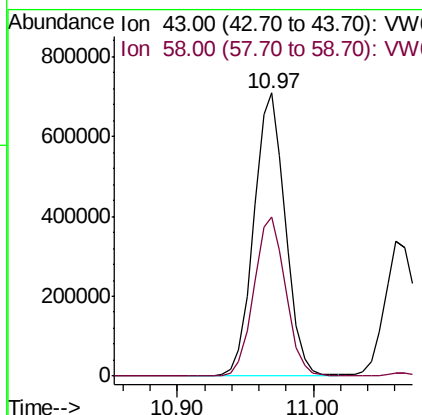
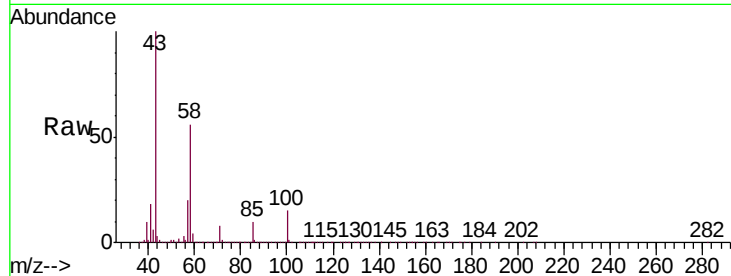




#59  
2-Hexanone  
Concen: 277.797 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

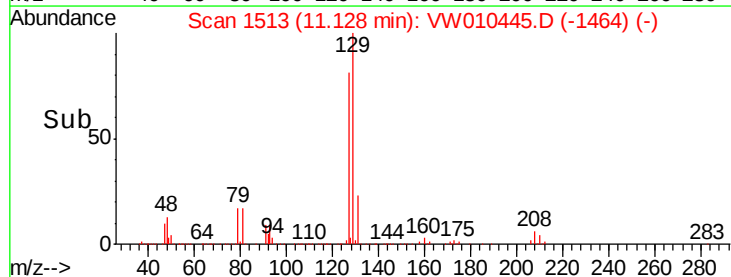
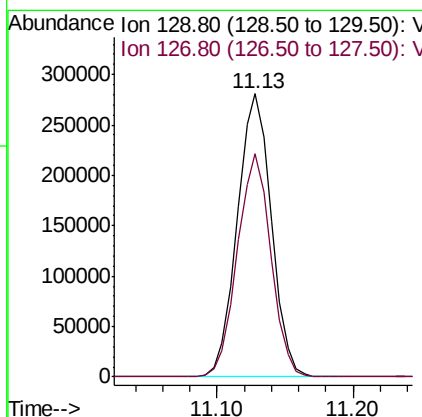
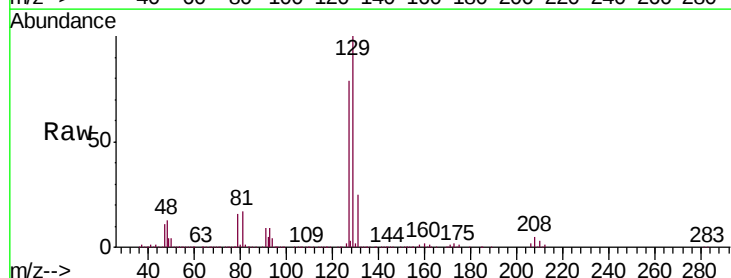
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

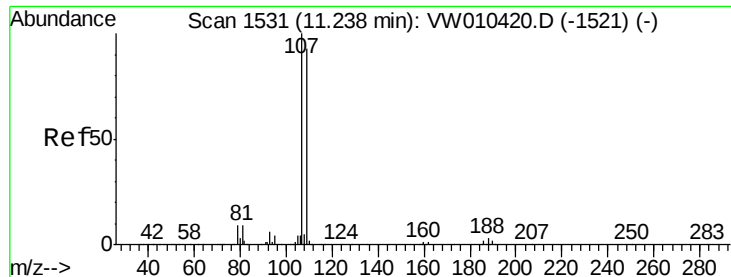
Tgt Ion: 43 Resp: 1145064  
Ion Ratio Lower Upper  
43 100  
58 56.9 28.5 85.6



#60  
Dibromochloromethane  
Concen: 55.961 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion: 129 Resp: 489733  
Ion Ratio Lower Upper  
129 100  
127 77.6 39.0 116.9





#61

1,2-Dibromoethane

Concen: 55.349 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

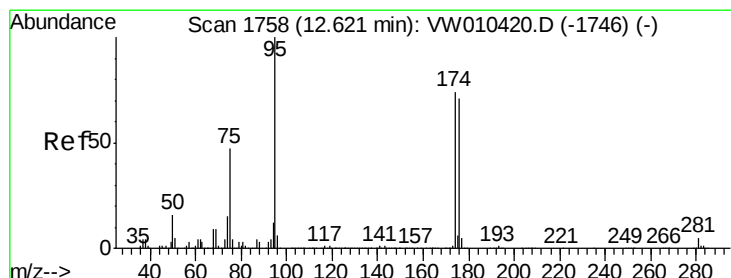
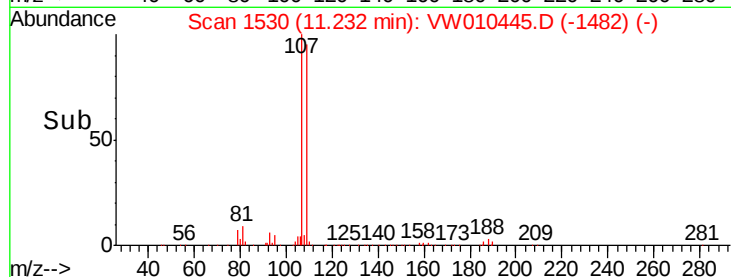
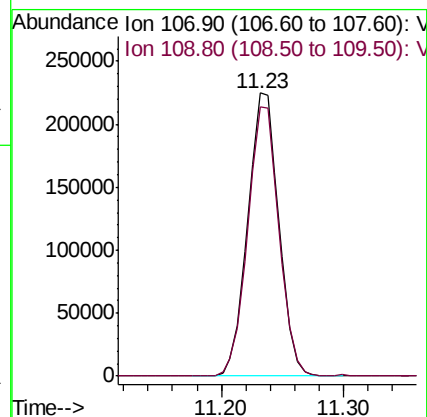
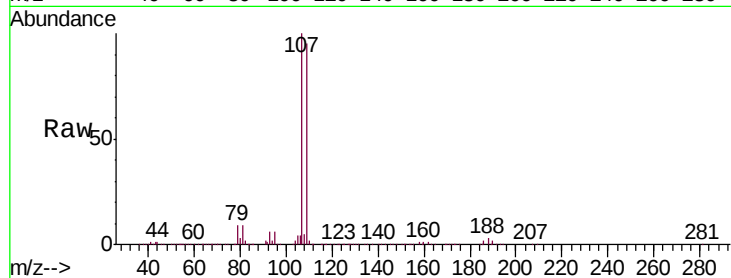
VSTDCCC050EC

Tgt Ion: 107 Resp: 395599

Ion Ratio Lower Upper

107 100

109 95.8 74.8 112.2



#62

4-Bromofluorobenzene

Concen: 51.727 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

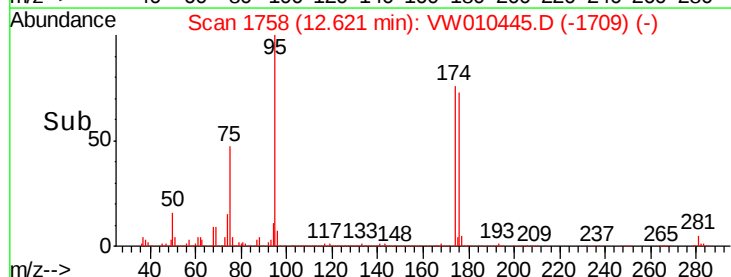
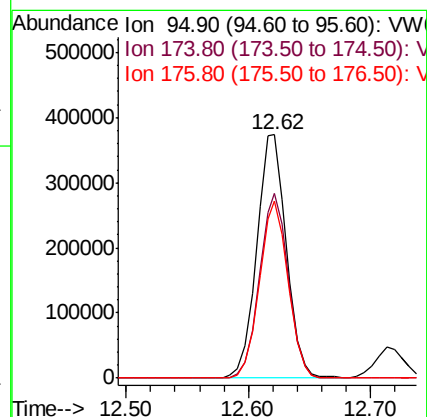
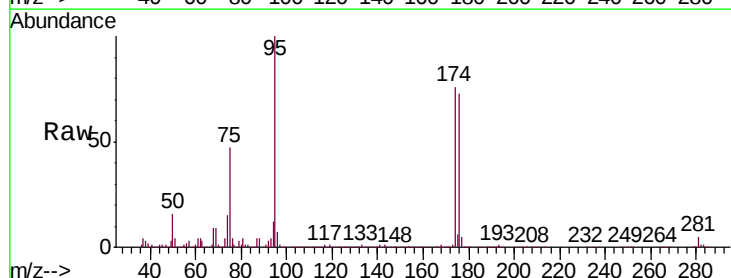
Tgt Ion: 95 Resp: 625769

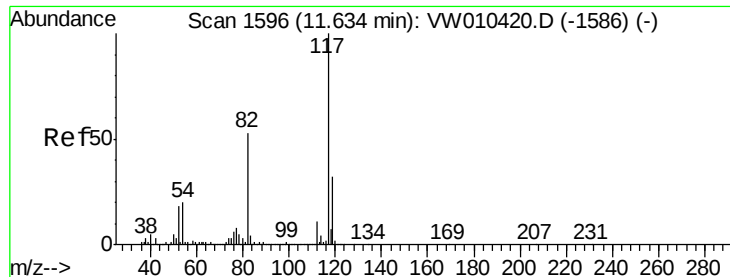
Ion Ratio Lower Upper

95 100

174 73.9 0.0 146.6

176 70.7 0.0 141.4

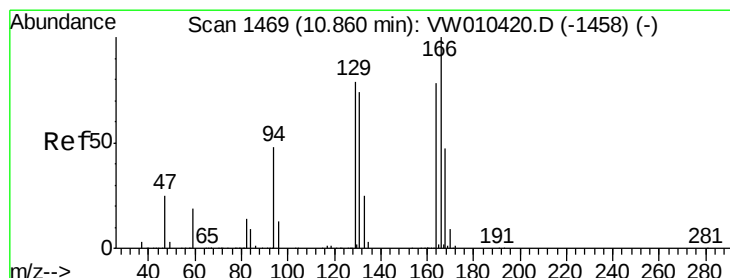
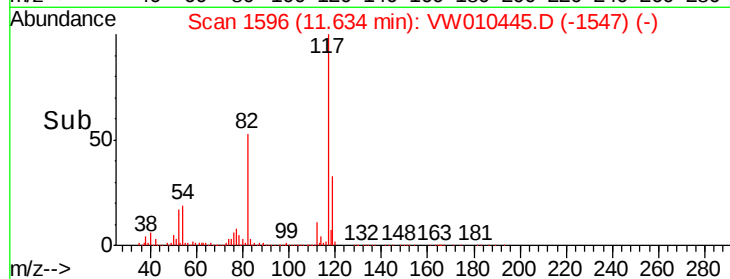
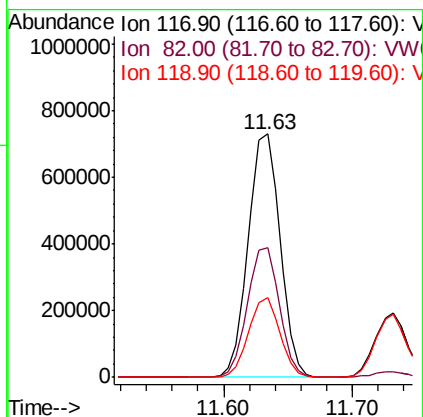
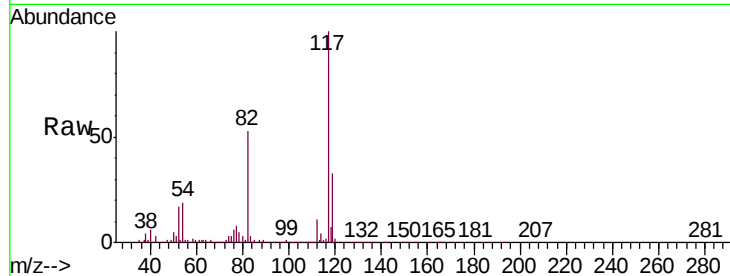




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

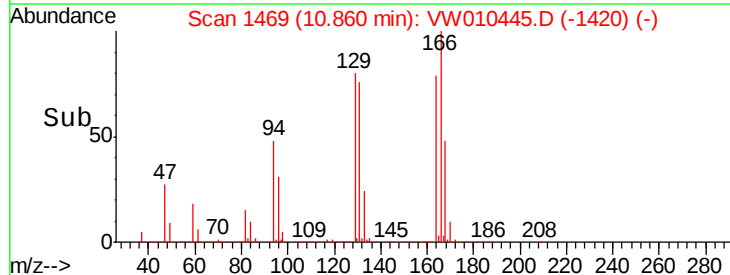
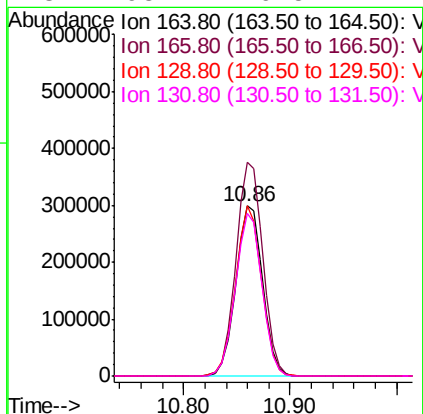
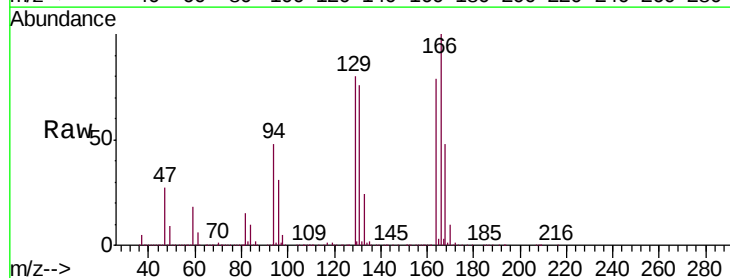
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

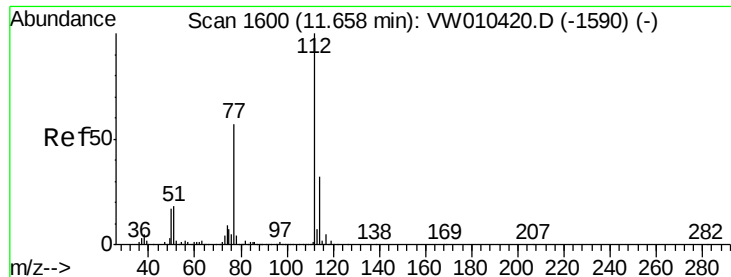
Tgt Ion:117 Resp: 1247993  
Ion Ratio Lower Upper  
117 100  
82 53.3 42.1 63.1  
119 32.5 25.6 38.4



#64  
Tetrachloroethene  
Concen: 64.080 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion:164 Resp: 526008  
Ion Ratio Lower Upper  
164 100  
166 125.9 103.2 154.8  
129 100.3 81.6 122.4  
131 95.7 76.5 114.7





#65

Chlorobenzene

Concen: 49.260 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

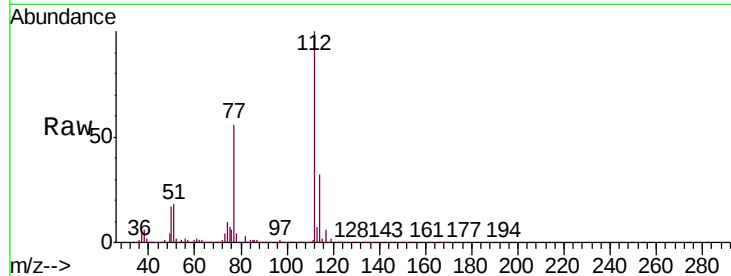
VSTDCCC050EC

Tgt Ion:112 Resp: 1248355

Ion Ratio Lower Upper

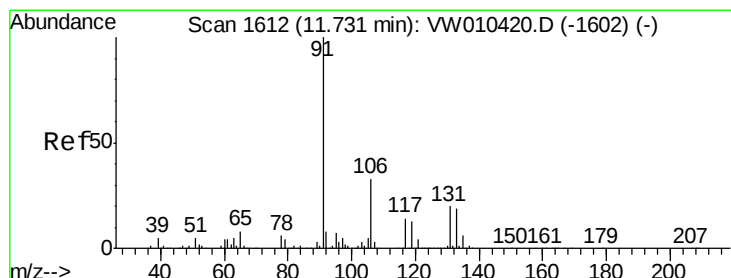
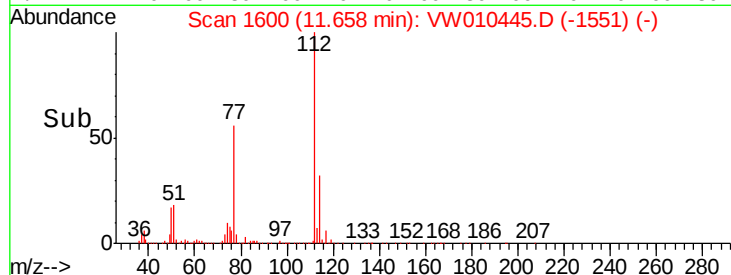
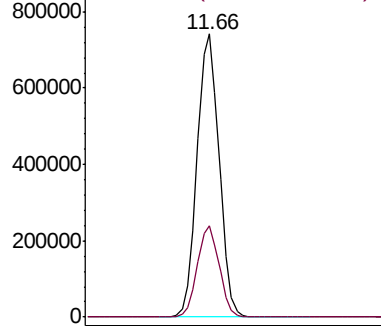
112 100

114 32.1 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 51.096 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

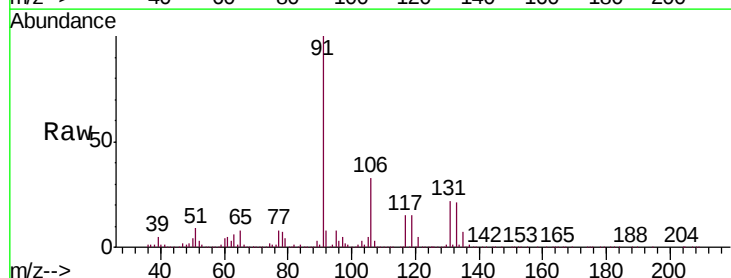
Tgt Ion:131 Resp: 478177

Ion Ratio Lower Upper

131 100

133 96.1 48.3 144.8

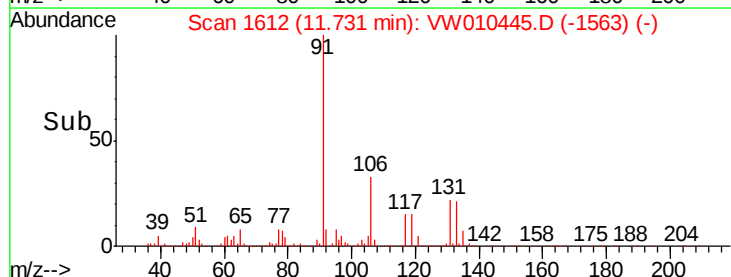
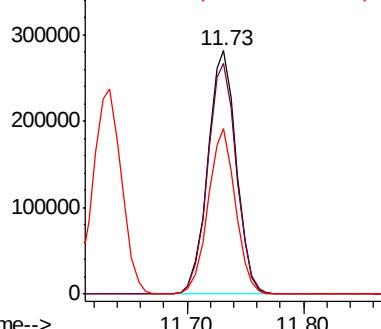
119 65.6 32.4 97.0

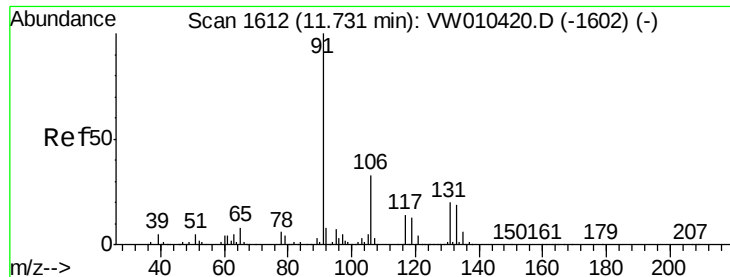


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

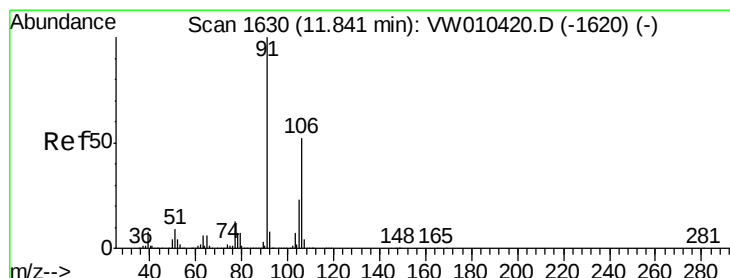
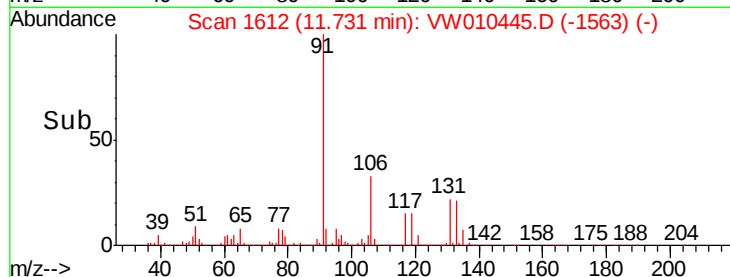
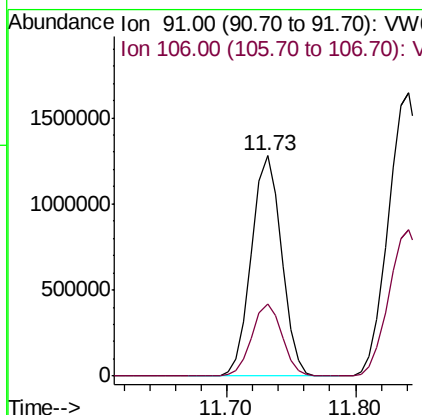
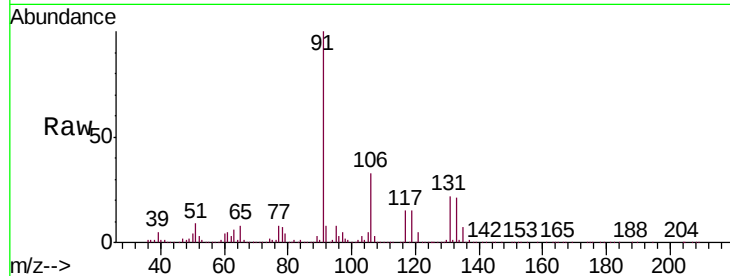




#67  
Ethyl Benzene  
Concen: 46.149 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

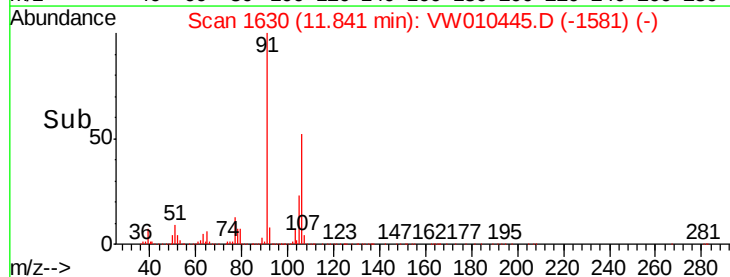
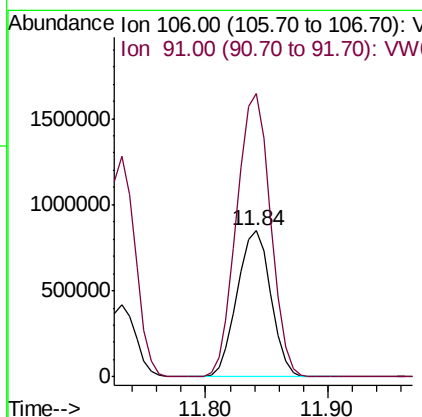
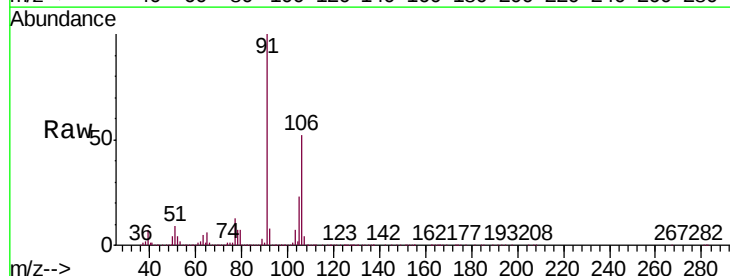
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

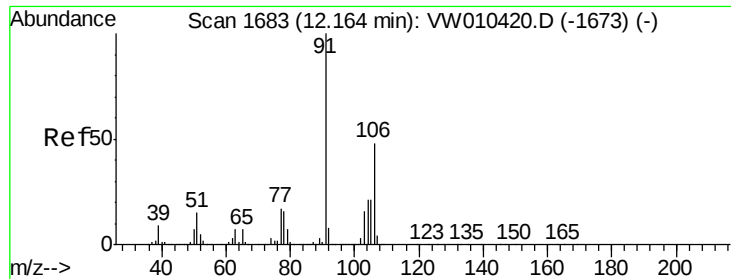
Tgt Ion: 91 Resp: 2060149  
Ion Ratio Lower Upper  
91 100  
106 32.8 26.5 39.7



#68  
m/p-Xylenes  
Concen: 92.885 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion: 106 Resp: 1622905  
Ion Ratio Lower Upper  
106 100  
91 195.0 156.2 234.2

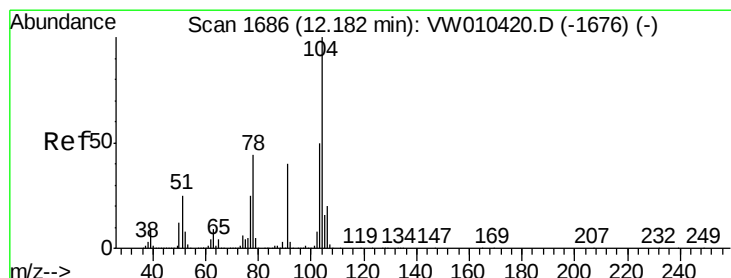
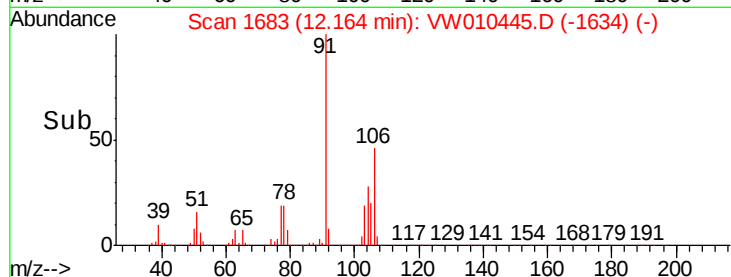
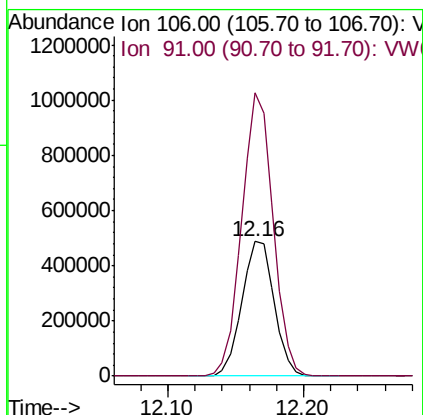
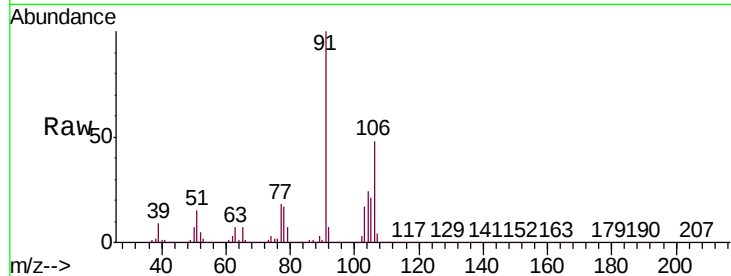




#69  
o-Xylene  
Concen: 48.572 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

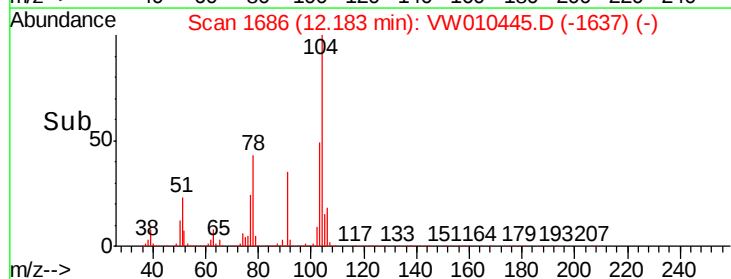
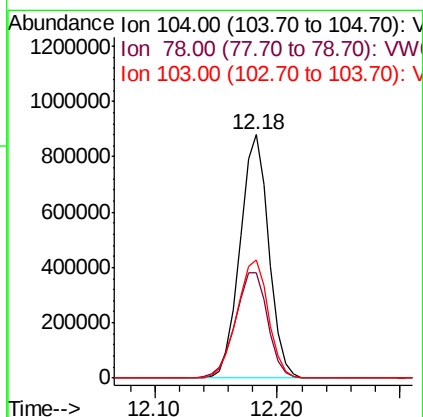
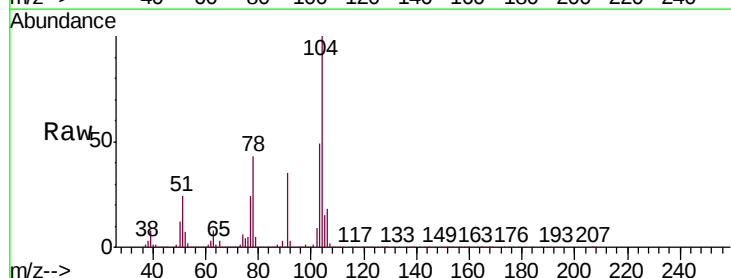
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

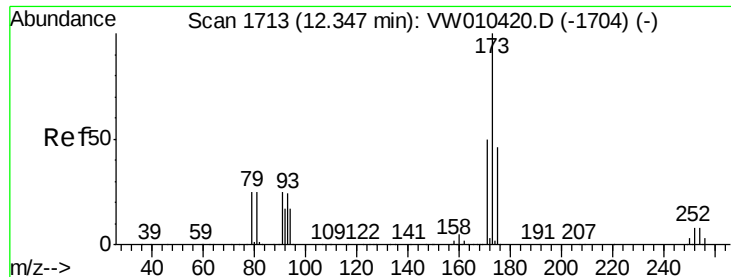
Tgt Ion:106 Resp: 808978  
Ion Ratio Lower Upper  
106 100  
91 203.8 102.5 307.5



#70  
Styrene  
Concen: 49.758 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion:104 Resp: 1426947  
Ion Ratio Lower Upper  
104 100  
78 48.9 39.4 59.0  
103 53.1 43.4 65.0





#71

Bromoform

Concen: 55.571 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

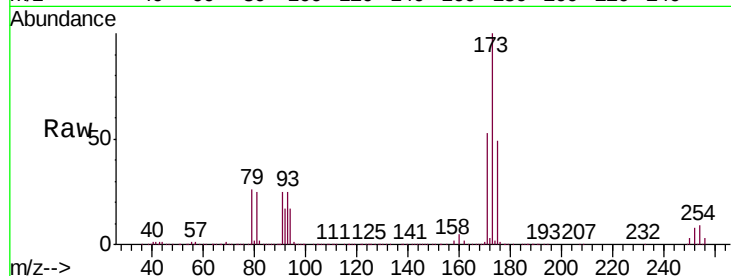
Tgt Ion:173 Resp: 293017

Ion Ratio Lower Upper

173 100

175 47.9 23.8 71.2

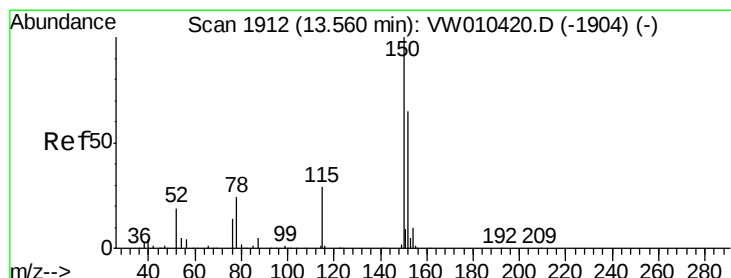
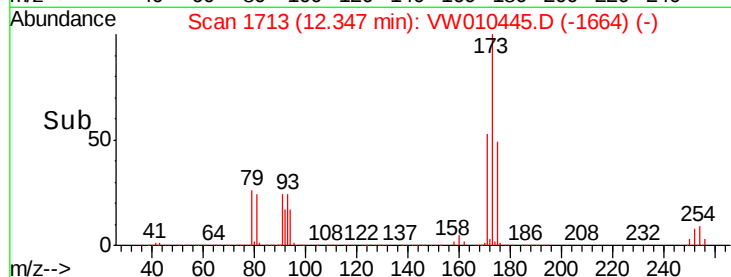
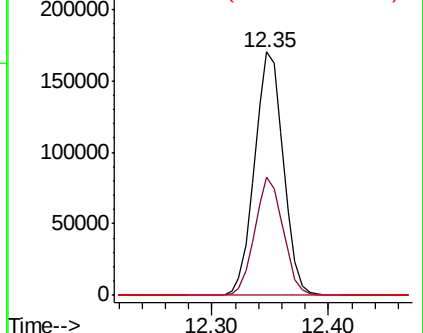
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

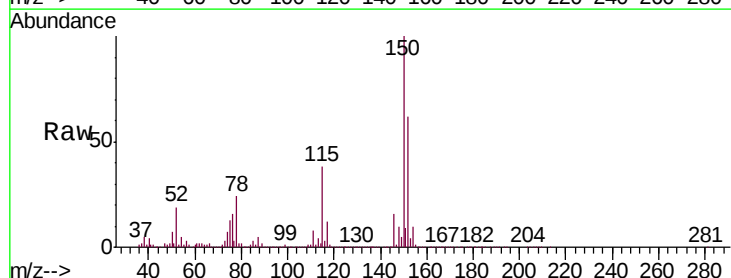
Tgt Ion:152 Resp: 601799

Ion Ratio Lower Upper

152 100

115 59.9 30.0 90.1

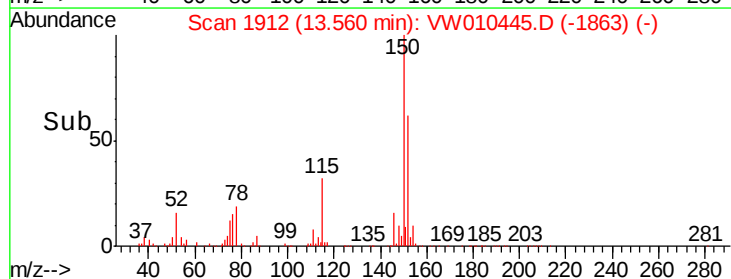
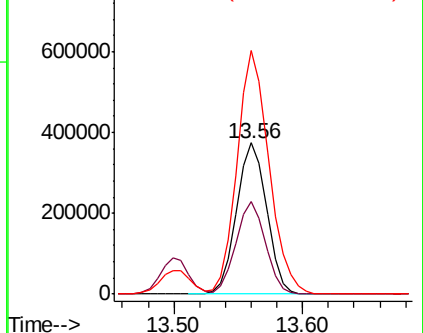
150 171.7 0.0 350.2

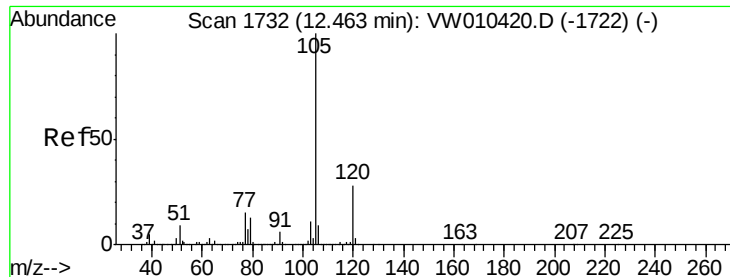


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 43.860 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

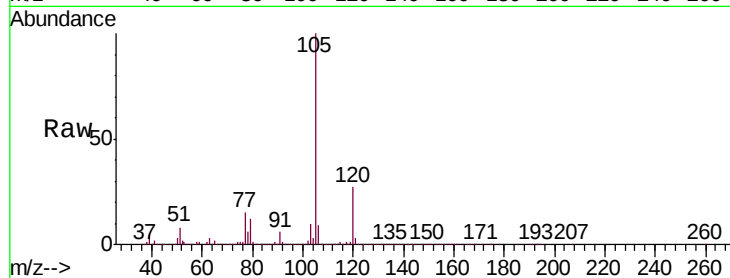
VSTDCCC050EC

Tgt Ion:105 Resp: 2040992

Ion Ratio Lower Upper

105 100

120 27.7 13.9 41.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

1500000

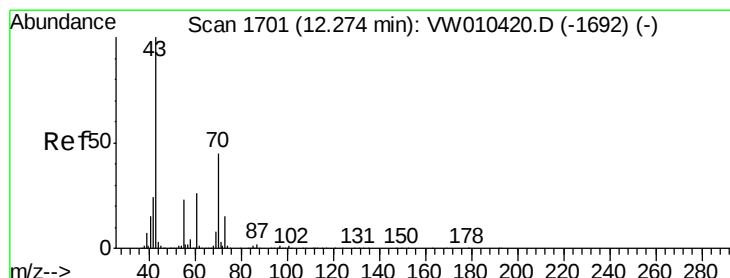
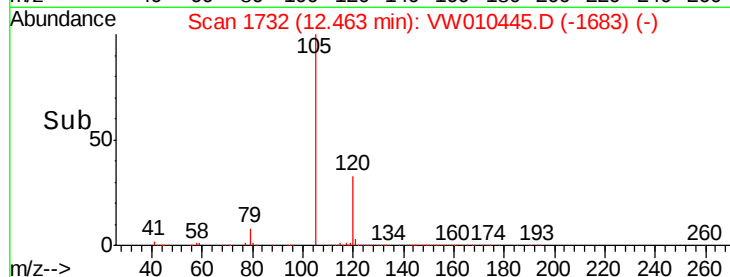
12.46

1000000

500000

0

Time-->



#74

N-ethyl acetate

Concen: 49.084 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Tgt Ion: 43 Resp: 585336

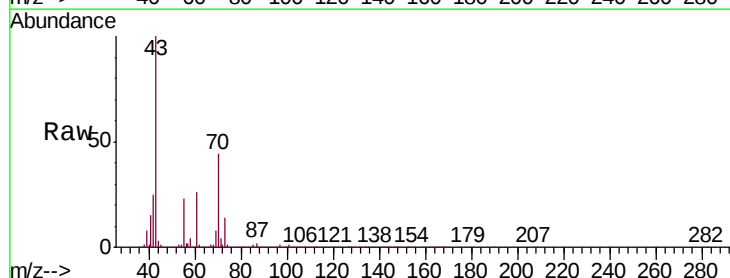
Ion Ratio Lower Upper

43 100

70 44.1 36.4 54.6

55 23.6 19.0 28.6

61 25.4 20.6 31.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

600000

500000

400000

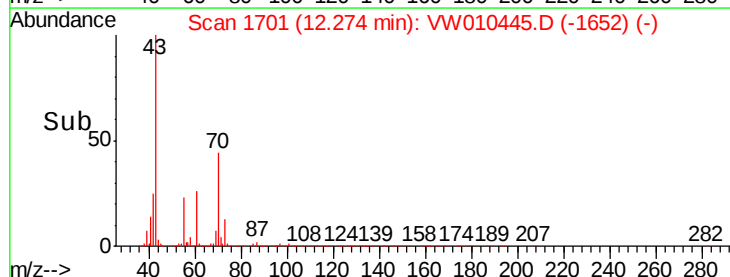
300000

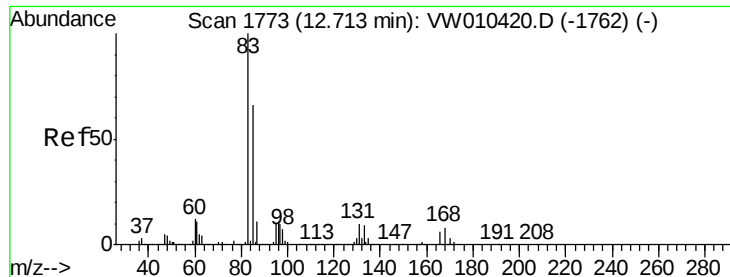
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 49.904 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

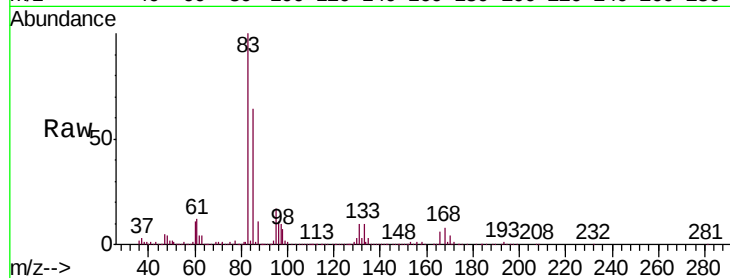
Tgt Ion: 83 Resp: 459923

Ion Ratio Lower Upper

83 100

131 11.5 5.5 16.4

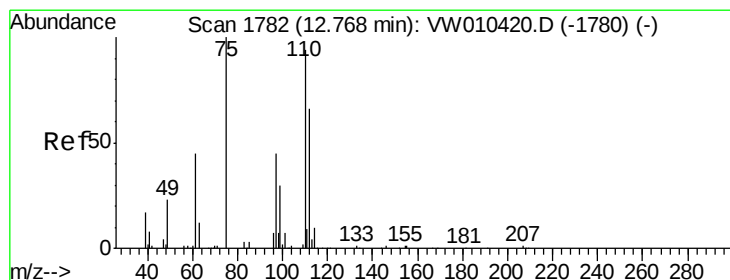
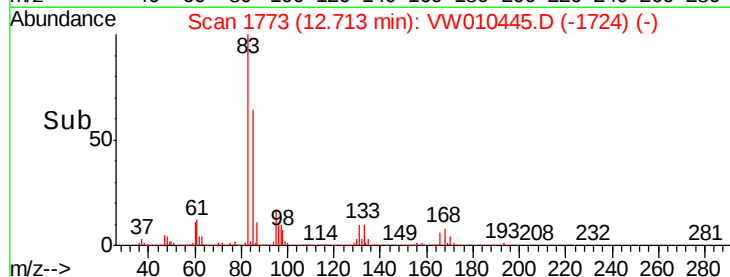
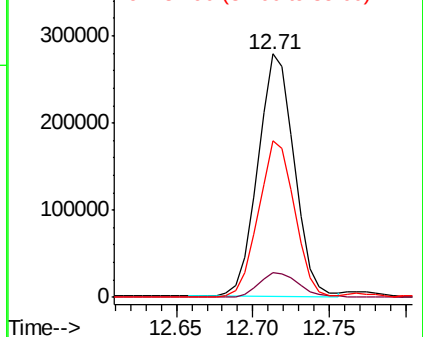
85 64.3 32.3 96.9



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 87.995 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW010445.D

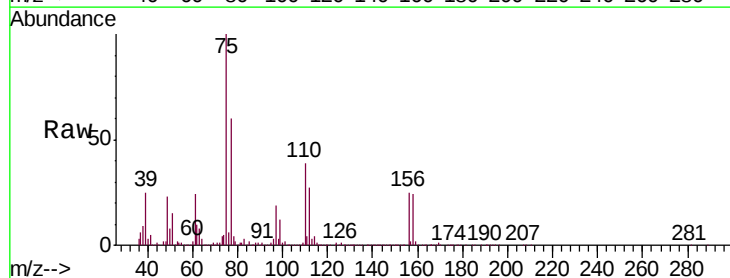
Acq: 18 May 2019 08:08

Tgt Ion: 75 Resp: 567057

Ion Ratio Lower Upper

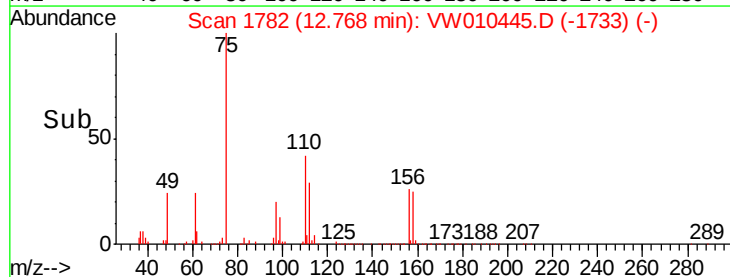
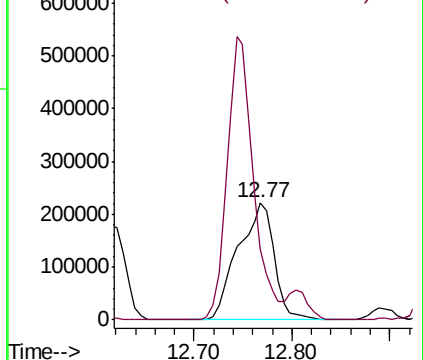
75 100

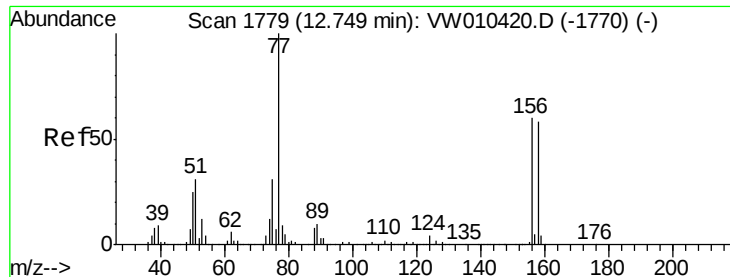
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 49.789 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

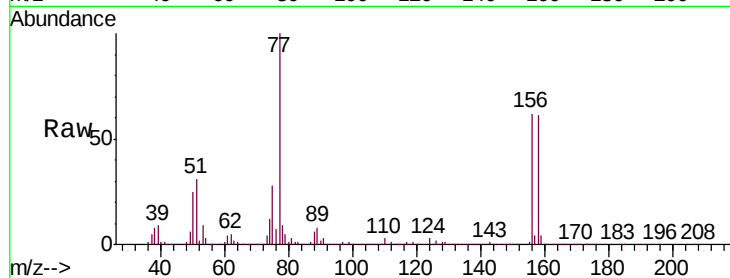
Tgt Ion:156 Resp: 523399

Ion Ratio Lower Upper

156 100

77 188.6 95.7 286.9

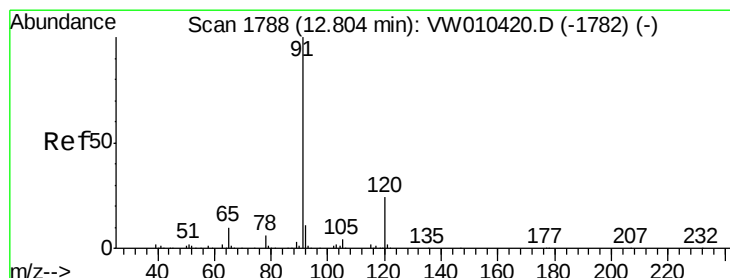
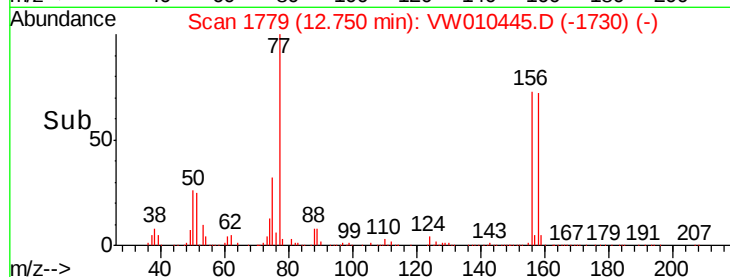
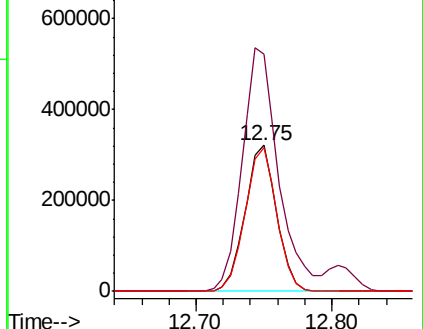
158 97.9 48.9 146.7



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 43.067 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW010445.D

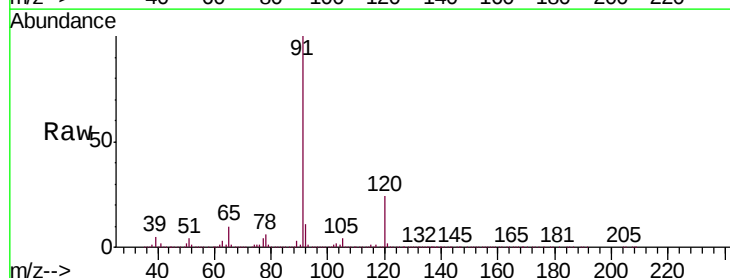
Acq: 18 May 2019 08:08

Tgt Ion: 91 Resp: 2324682

Ion Ratio Lower Upper

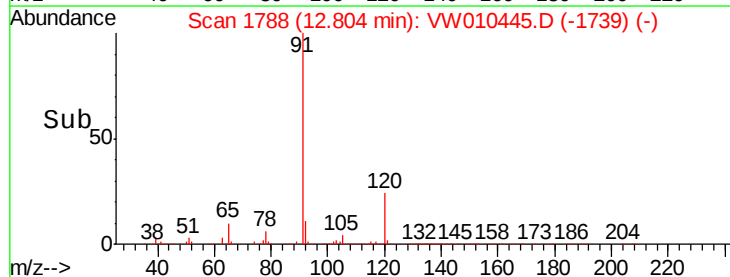
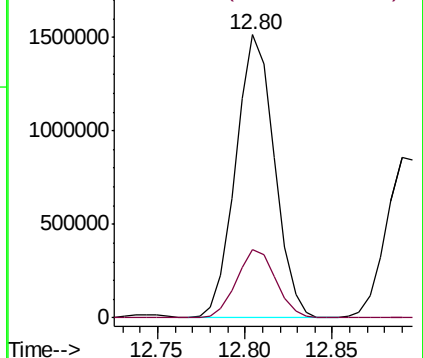
91 100

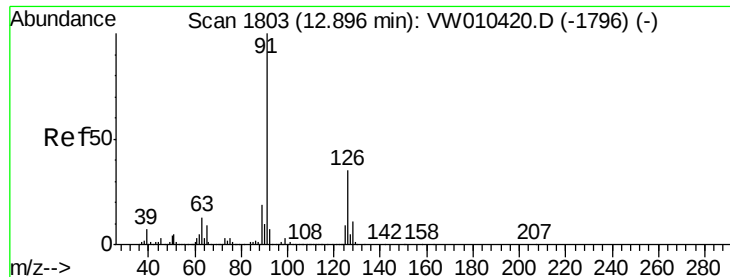
120 24.5 12.0 36.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 45.738 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.01 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

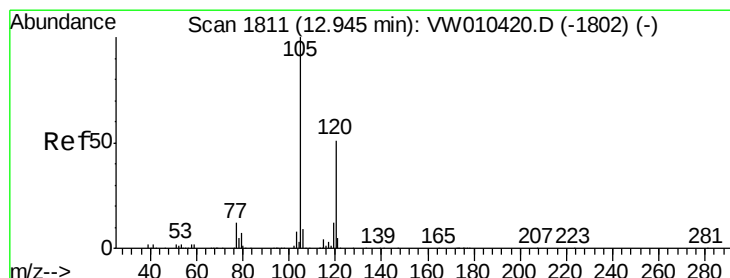
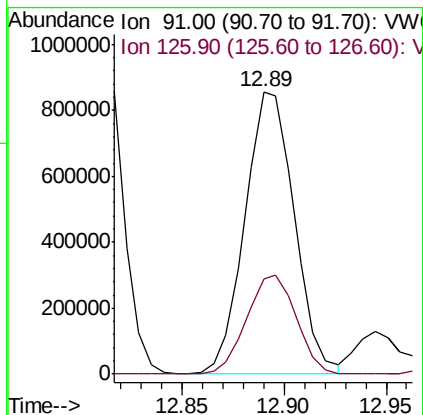
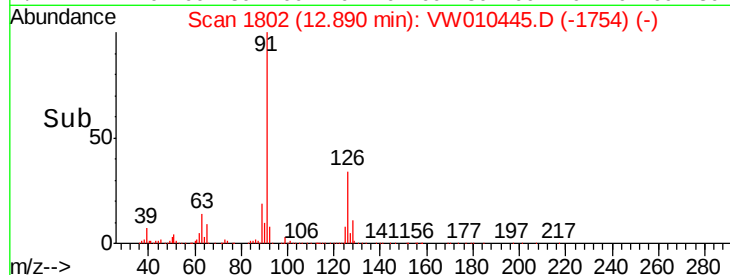
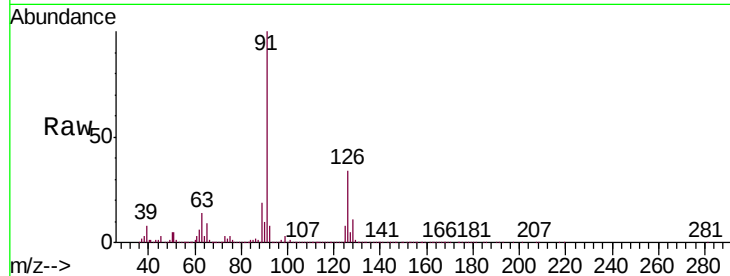
VSTDCCC050EC

Tgt Ion: 91 Resp: 1441695

Ion Ratio Lower Upper

91 100

126 35.2 17.3 52.0



#80

1,3,5-Trimethylbenzene

Concen: 44.774 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW010445.D

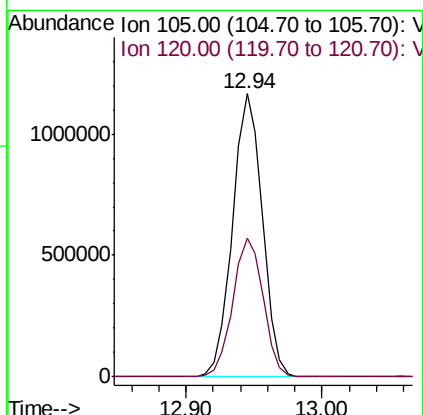
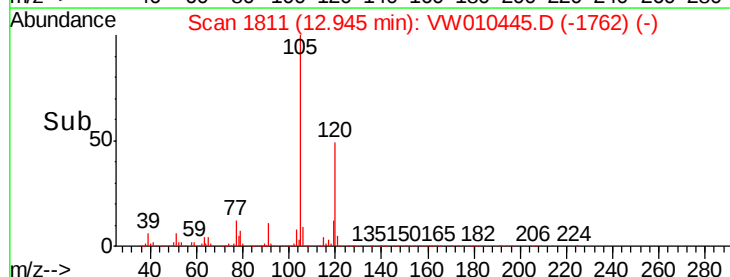
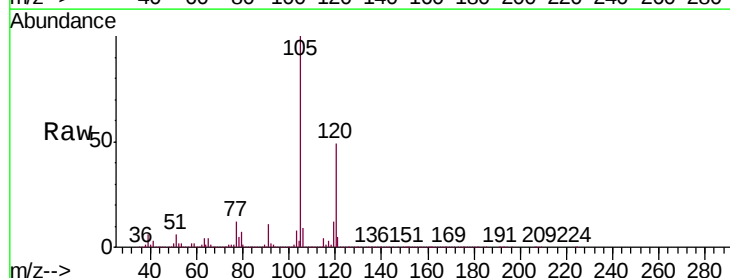
Acq: 18 May 2019 08:08

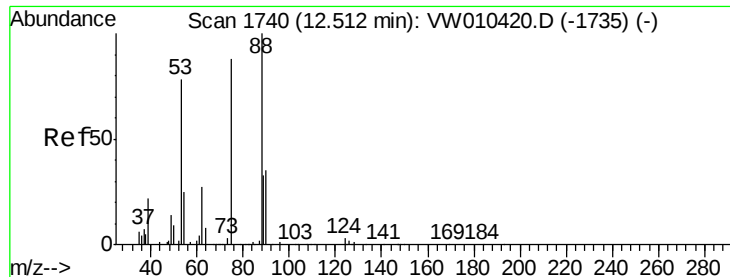
Tgt Ion: 105 Resp: 1773453

Ion Ratio Lower Upper

105 100

120 50.1 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 39.537 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

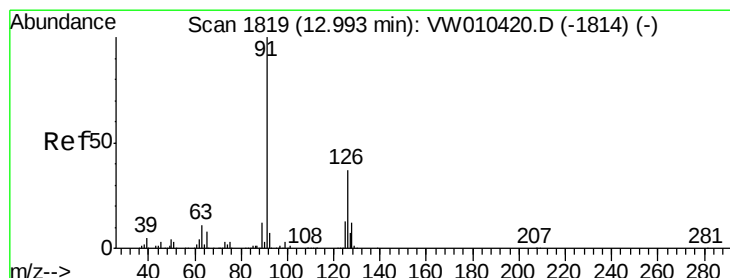
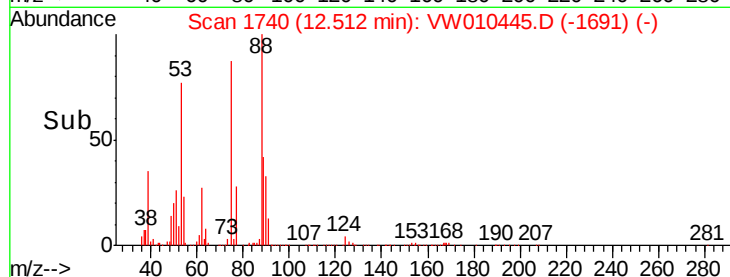
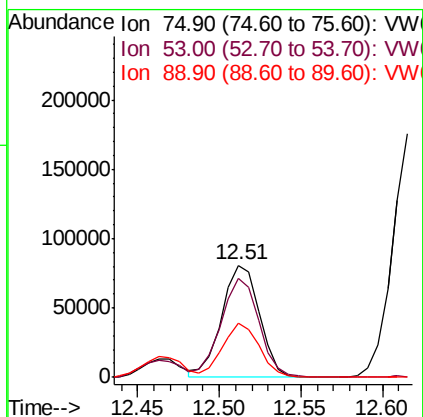
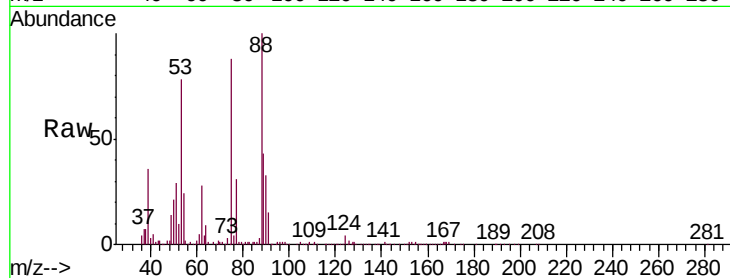
Tgt Ion: 75 Resp: 129115

Ion Ratio Lower Upper

75 100

53 88.6 70.7 106.1

89 46.5 38.6 58.0



#82

4-Chlorotoluene

Concen: 45.628 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VW010445.D

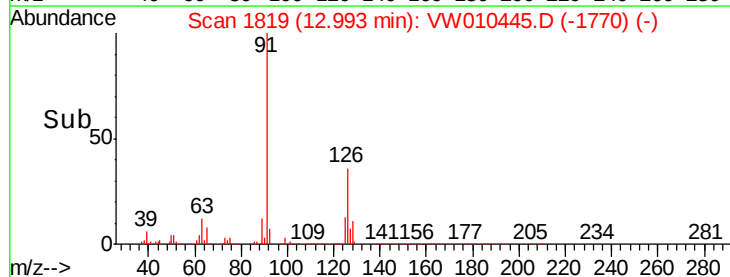
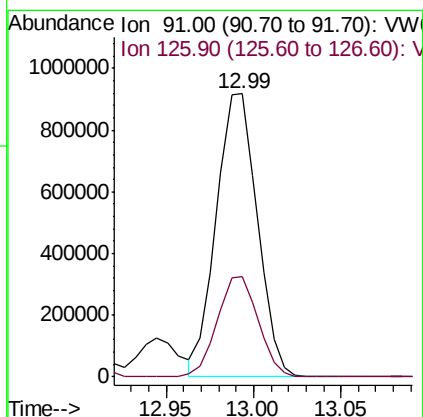
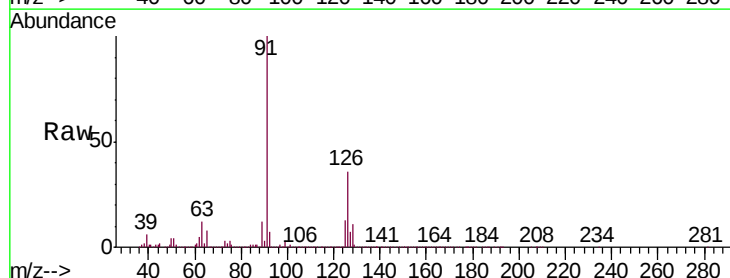
Acq: 18 May 2019 08:08

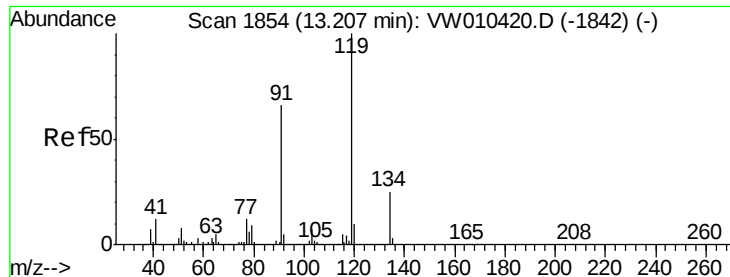
Tgt Ion: 91 Resp: 1502094

Ion Ratio Lower Upper

91 100

126 35.5 17.4 52.2

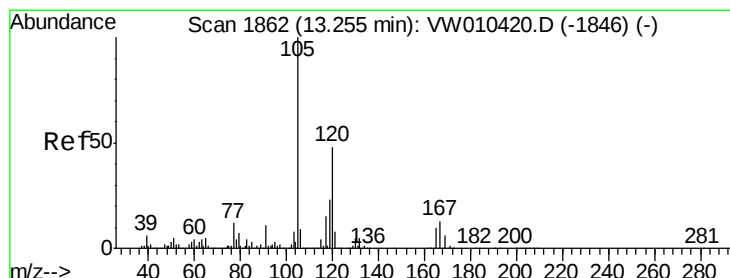
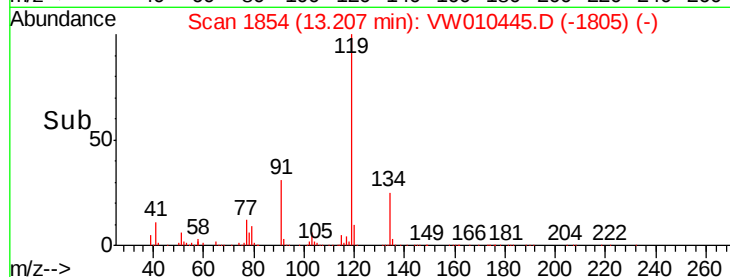
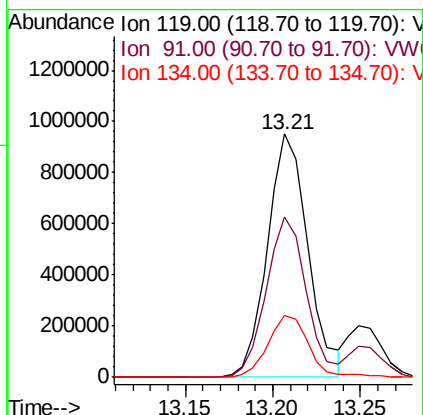
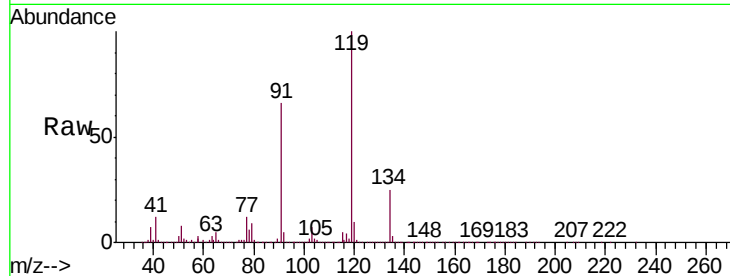




#83  
 tert-Butylbenzene  
 Concen: 45.792 ug/l  
 RT: 13.21 min Scan# 1854  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

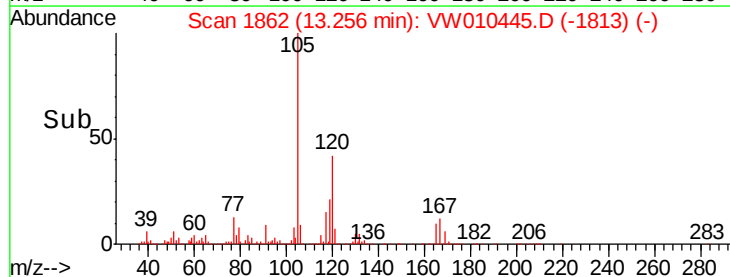
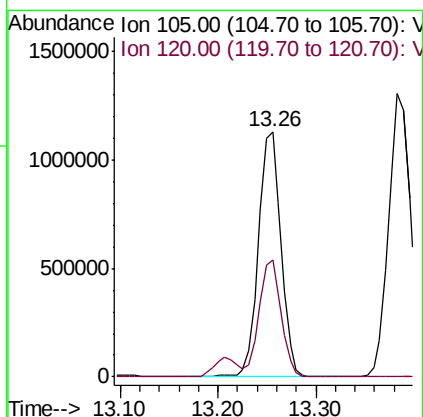
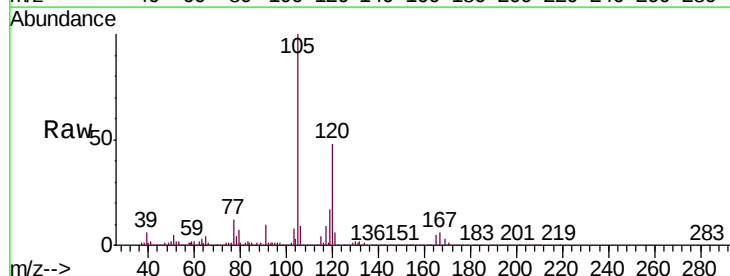
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

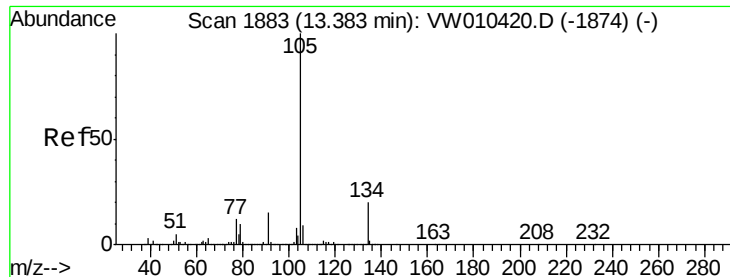
Tgt Ion:119 Resp: 1533923  
 Ion Ratio Lower Upper  
 119 100  
 91 65.4 33.5 100.5  
 134 26.0 13.8 41.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 46.274 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

Tgt Ion:105 Resp: 1803213  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 23.4 70.0





#85

sec-Butylbenzene

Concen: 43.148 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

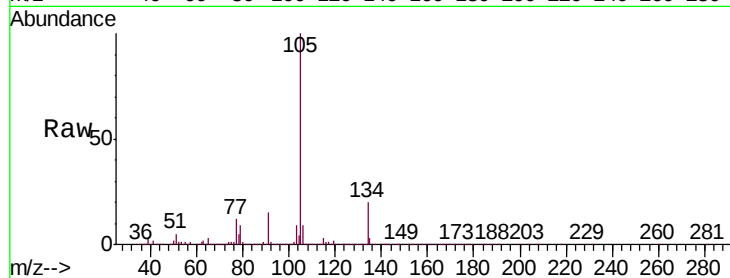
VSTDCCC050EC

Tgt Ion:105 Resp: 2035202

Ion Ratio Lower Upper

105 100

134 20.9 10.4 31.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.38

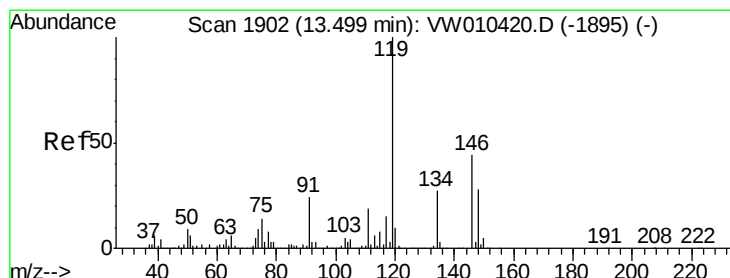
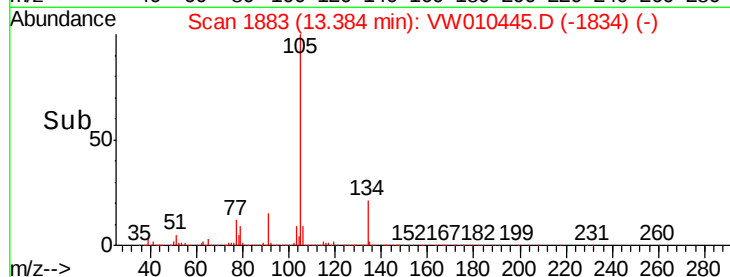
1500000

1000000

500000

0

Time-->



#86

p-Isopropyltoluene

Concen: 43.344 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

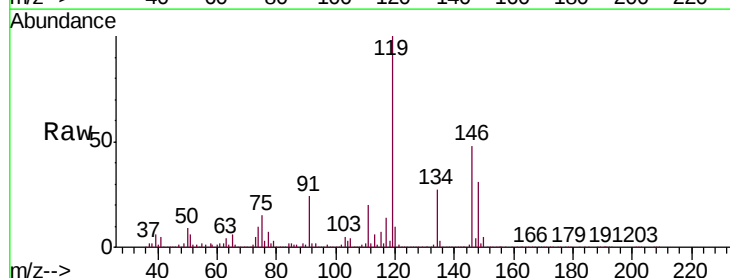
Tgt Ion:119 Resp: 1846960

Ion Ratio Lower Upper

119 100

134 27.3 13.7 41.0

91 24.0 12.2 36.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.50

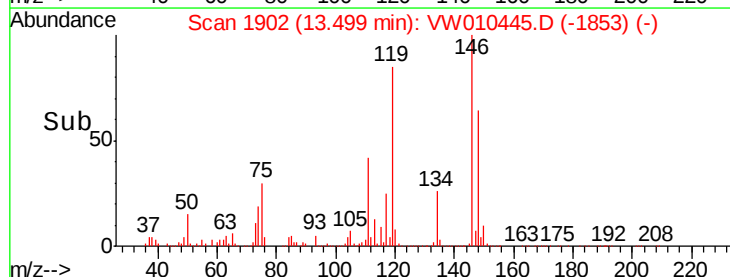
1500000

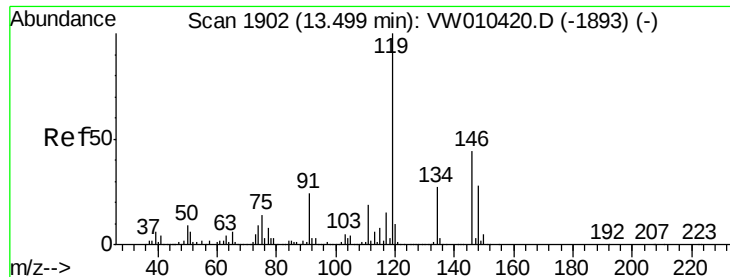
1000000

500000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 47.846 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

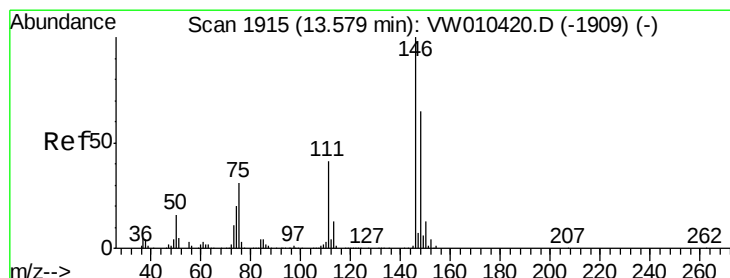
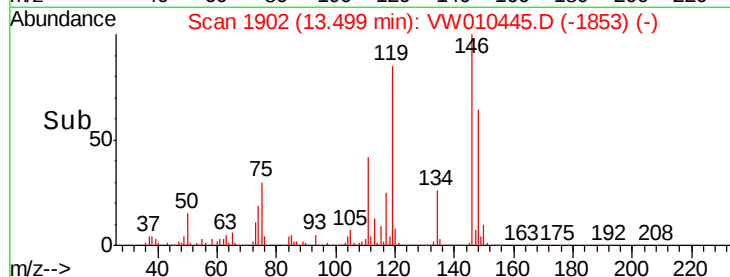
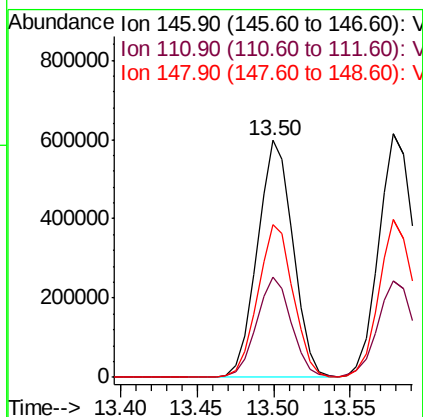
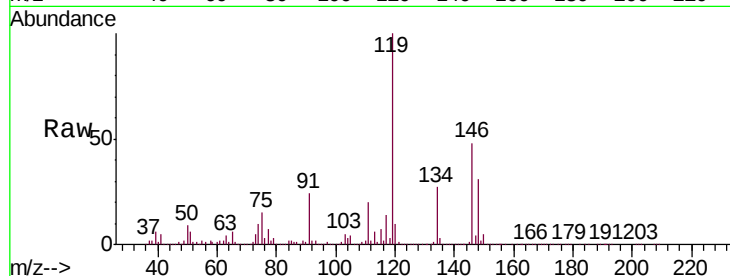
Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 968637 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 41.4  | 20.8  | 62.4   |
| 148      | 64.1  | 31.8  | 95.4   |



#88

1,4-Dichlorobenzene

Concen: 48.689 ug/l

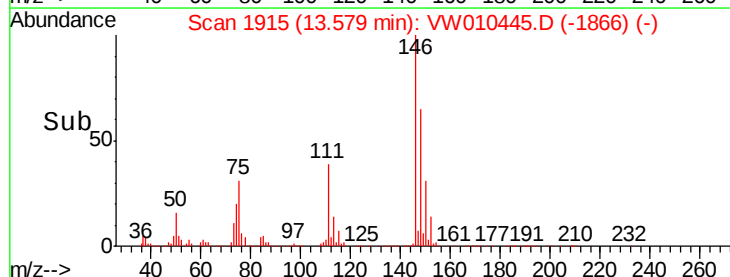
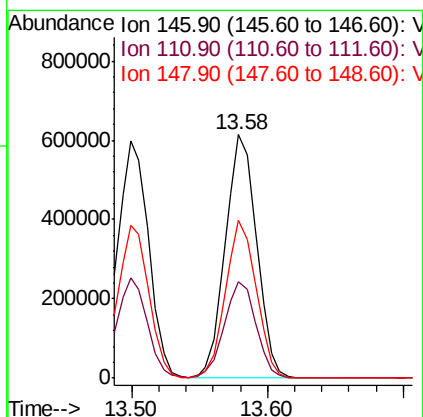
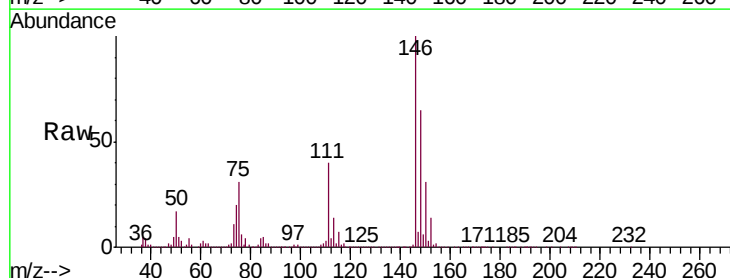
RT: 13.58 min Scan# 1915

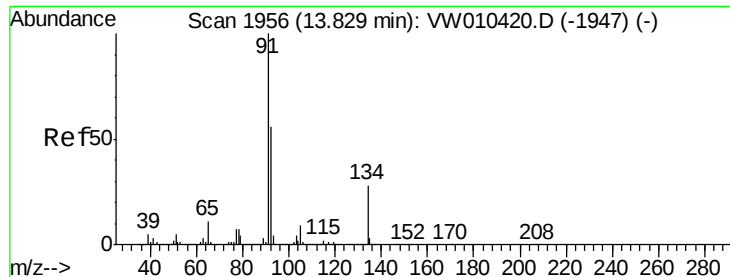
Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 981191 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 40.1  | 20.4  | 61.3   |
| 148      | 63.8  | 32.3  | 96.9   |





#89

n-Butylbenzene

Concen: 41.299 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW010445.D

Acq: 18 May 2019 08:08

Instrument :

MSVOA\_W

ClientSampleId :

VSTDCCC050EC

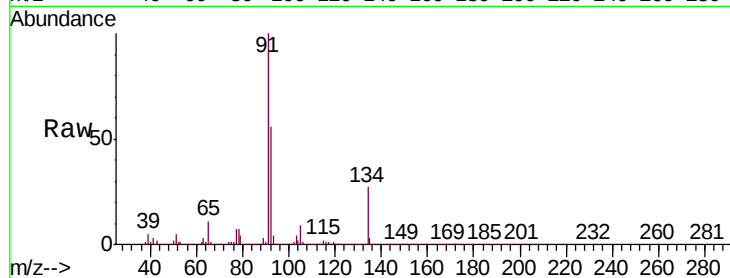
Tgt Ion: 91 Resp: 1679056

Ion Ratio Lower Upper

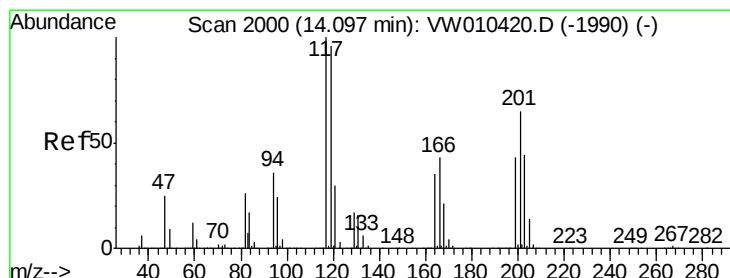
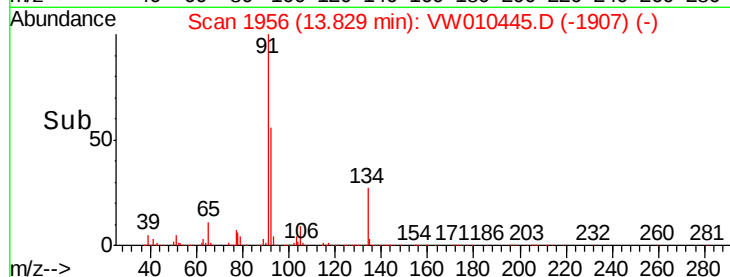
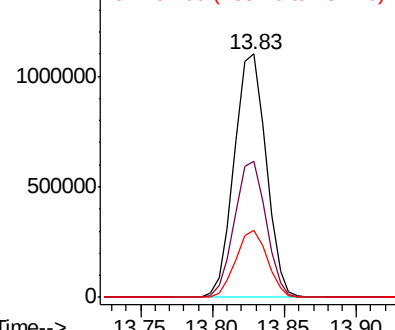
91 100

92 55.5 27.7 83.0

134 27.5 13.8 41.3



Abundance Ion 91.00 (90.70 to 91.70): VW  
Ion 92.00 (91.70 to 92.70): VW  
Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 45.226 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW010445.D

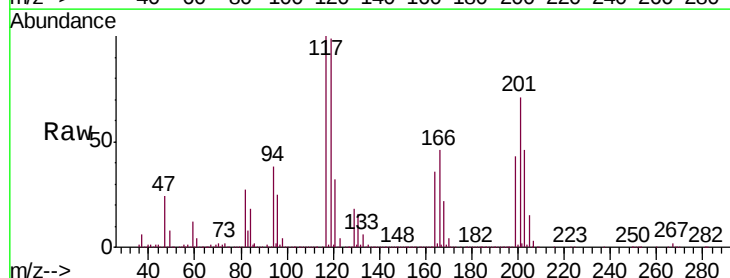
Acq: 18 May 2019 08:08

Tgt Ion: 117 Resp: 387664

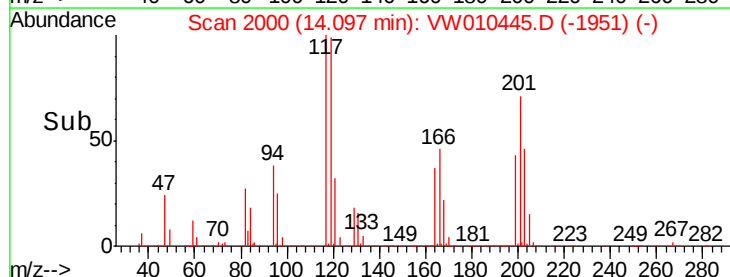
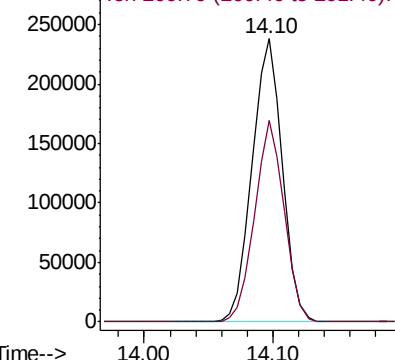
Ion Ratio Lower Upper

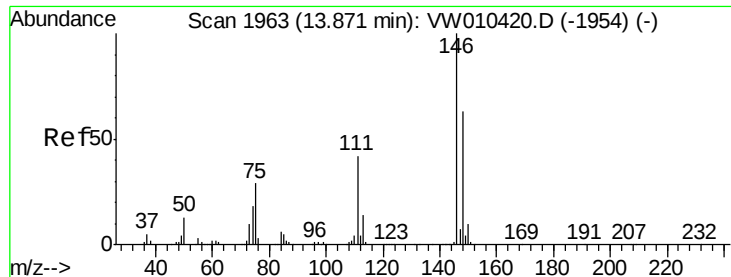
117 100

201 69.7 33.8 101.4



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 200.70 (200.40 to 201.40): V

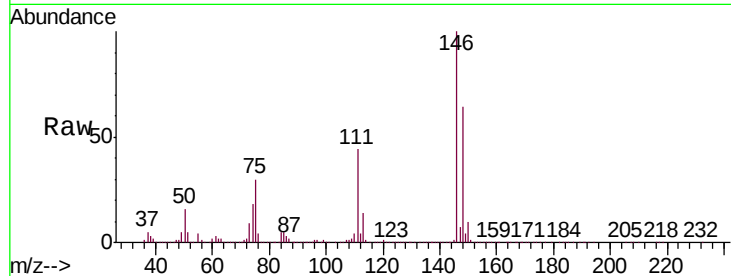




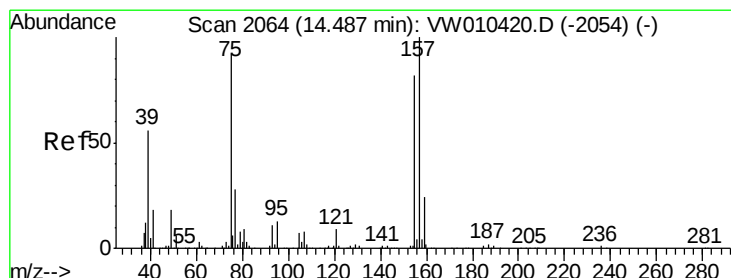
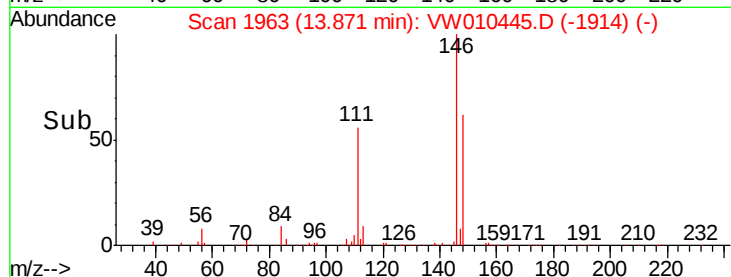
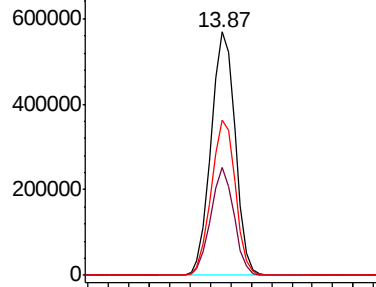
#91  
 1,2-Dichlorobenzene  
 Concen: 50.610 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.2  | 21.3  | 63.7  |
| 148     | 63.8  | 31.6  | 95.0  |

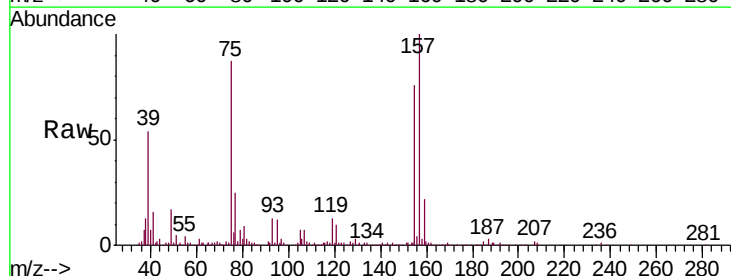


Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

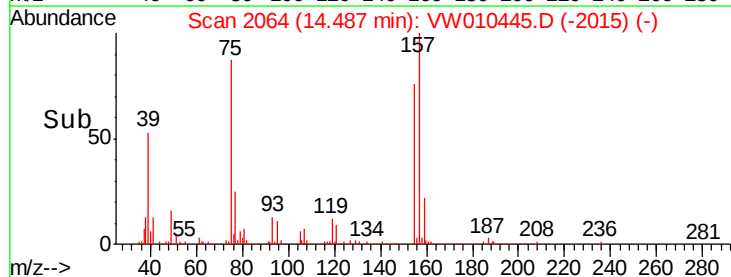
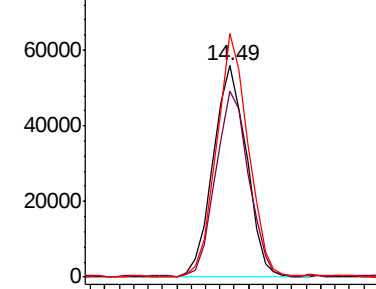


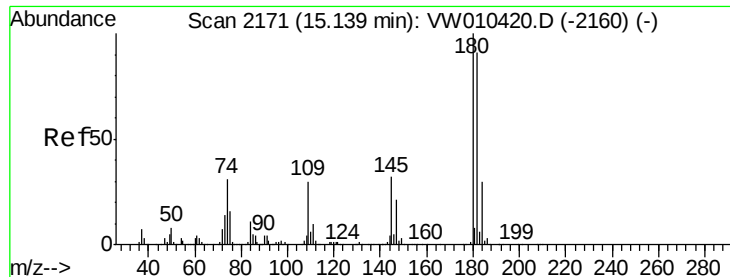
#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 51.894 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 87.0  | 43.5  | 130.7 |
| 157     | 109.5 | 54.8  | 164.4 |



Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 154.80 (154.50 to 155.50): V  
 Ion 156.80 (156.50 to 157.50): V

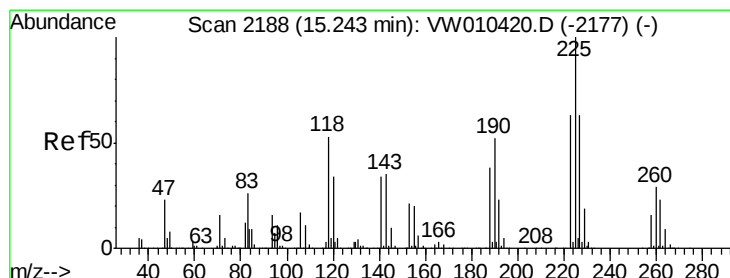
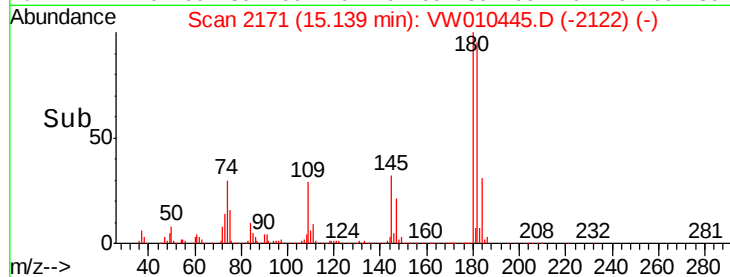
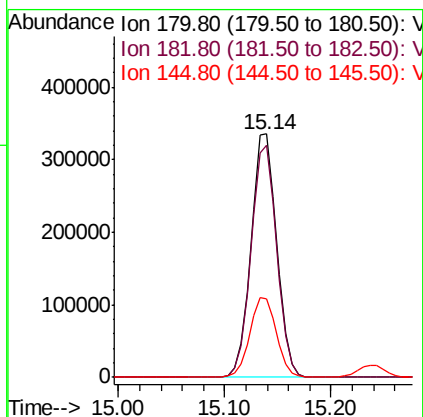
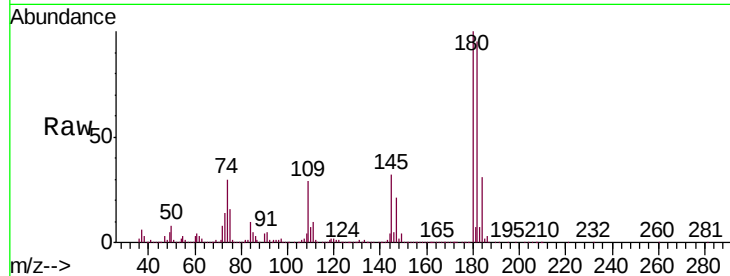




#93  
 1,2,4-Trichlorobenzene  
 Concen: 47.480 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. 0.00 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

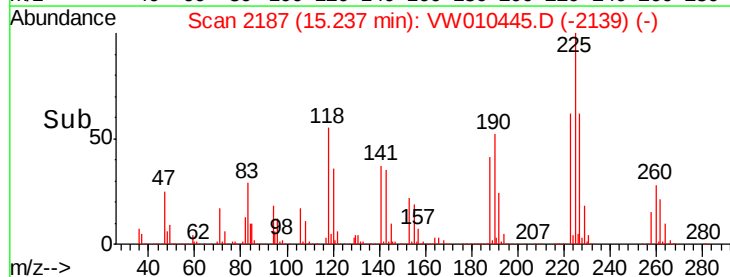
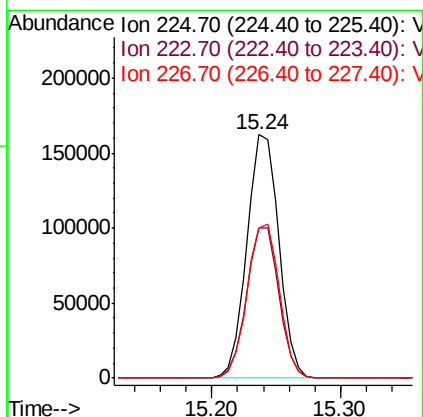
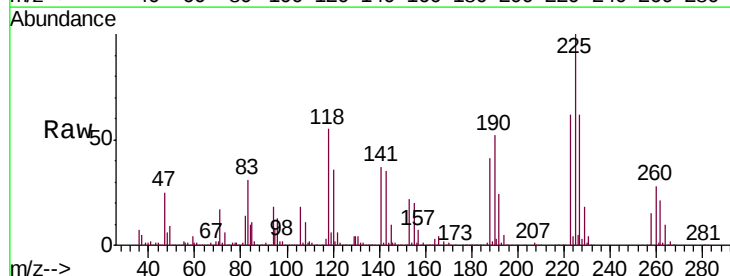
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

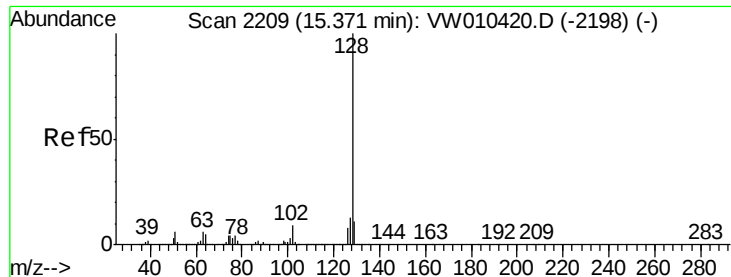
Tgt Ion:180 Resp: 569735  
 Ion Ratio Lower Upper  
 180 100  
 182 95.0 47.0 141.2  
 145 33.7 16.6 49.7



#94  
 Hexachlorobutadiene  
 Concen: 43.261 ug/l  
 RT: 15.24 min Scan# 2187  
 Delta R.T. -0.01 min  
 Lab File: VW010445.D  
 Acq: 18 May 2019 08:08

Tgt Ion:225 Resp: 277136  
 Ion Ratio Lower Upper  
 225 100  
 223 62.4 32.0 96.2  
 227 63.8 31.4 94.0

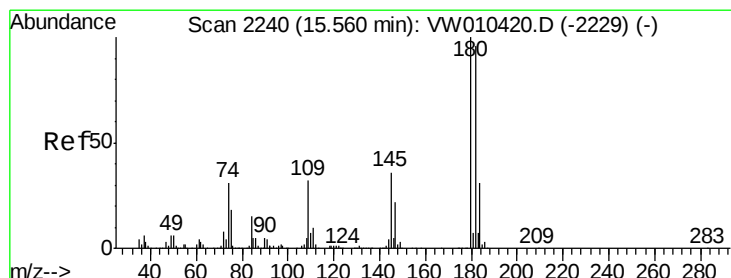
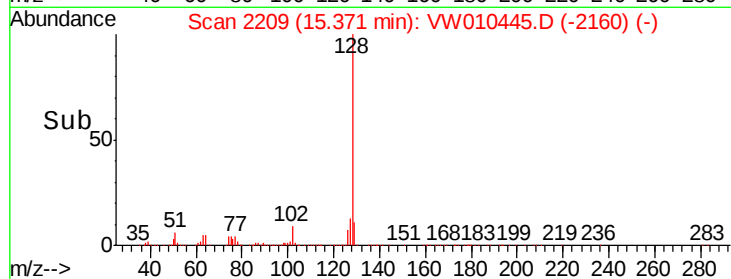
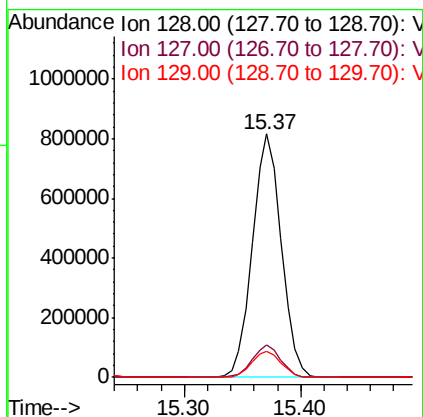
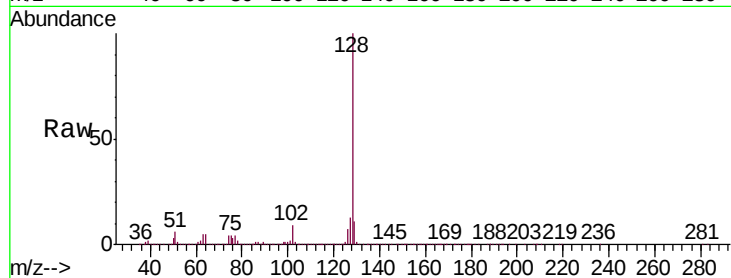




#95  
Naphthalene  
Concen: 51.985 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

Tgt Ion:128 Resp: 1410048  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.5 15.7  
129 11.0 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 50.005 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VW010445.D  
Acq: 18 May 2019 08:08

Tgt Ion:180 Resp: 529042  
Ion Ratio Lower Upper  
180 100  
182 93.6 47.6 142.9  
145 35.5 17.8 53.5

