

Data File : VW012963.D  
Acq On : 13 Sep 2019 20:06  
Operator : SY/VA  
Sample : VW0914SBSD01  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

Quant Time: Sep 14 04:22:24 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 13 17:26:01 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 280937   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 414554   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 361911   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 183776   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 142874   | 55.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.12% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 117139   | 52.08 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.16% |      |
| 50) Toluene-d8            | 10.32  | 98  | 476177   | 54.10 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.20% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 167693   | 52.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.96% |      |

#### Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 25065  | 20.684  | ug/l   | 96     |
| 3) Chloromethane              | 2.21 | 50  | 34046  | 22.516  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.35 | 62  | 42794  | 21.281  | ug/l   | 99     |
| 5) Bromomethane               | 2.77 | 94  | 25435  | 20.713  | ug/l   | 99     |
| 6) Chloroethane               | 2.91 | 64  | 25337  | 20.544  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 25556  | 18.174  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.68 | 74  | 22200  | 20.219  | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 41634  | 19.521  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.26 | 142 | 56034  | 20.994  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.19 | 59  | 21449  | 110.510 | ug/l # | 89     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 39589  | 20.415  | ug/l   | 94     |
| 13) Acrolein                  | 3.89 | 56  | 21602  | 108.983 | ug/l   | 98     |
| 14) Allyl chloride            | 4.67 | 41  | 75063  | 20.390  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.36 | 53  | 58852  | 104.944 | ug/l   | 97     |
| 16) Acetone                   | 4.13 | 43  | 53470  | 81.821  | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.38 | 76  | 82036  | 21.228  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 35359  | 23.920  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 78253  | 20.443  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.91 | 84  | 48211  | 19.874  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 41752  | 20.103  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.31 | 45  | 153786 | 20.108  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.25 | 43  | 464356 | 101.374 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 87888  | 19.931  | ug/l   | 97     |
| 25) 2-Butanone                | 7.17 | 43  | 84800  | 102.783 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 57255  | 17.655  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 49790  | 20.024  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 35951  | 19.370  | ug/l # | 99     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 52362  | 111.387 | ug/l   | 98     |
| 30) Chloroform                | 7.67 | 83  | 88404  | 19.731  | ug/l   | 97     |
| 31) Cyclohexane               | 7.95 | 56  | 73001  | 19.457  | ug/l   | 94     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 71634  | 19.414  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 64659  | 19.519  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.25 | 43  | 37254  | 21.187  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 64459  | 18.988  | ug/l   | 94     |

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Quant Title : SW846 8260  
QLast Update : Fri Sep 13 17:26:01 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.33  | 83   | 69536    | 19.156  | ug/l   | 95       |
| 40) Benzene                    | 8.32  | 78   | 186221   | 20.137  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.48  | 41   | 23837    | 20.586  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 61514    | 19.843  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 70373    | 20.845  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 48342    | 19.084  | ug/l   | 89       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 48311    | 19.663  | ug/l   | 95       |
| 46) Dibromomethane             | 9.46  | 93   | 24318    | 20.658  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.64  | 83   | 63981    | 19.377  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.43  | 41   | 32199    | 20.322  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 8607     | 436.360 | ug/l # | 76       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 183403   | 105.225 | ug/l   | 99       |
| 52) Toluene                    | 10.38 | 92   | 116807   | 19.877  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 64403    | 19.394  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 73820    | 19.428  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 35748    | 19.935  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 48742    | 20.193  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 65187    | 20.492  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 132789   | 102.554 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.96 | 43   | 124387   | 102.491 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 41568    | 19.173  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 32213    | 19.692  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.86 | 164  | 42201    | 19.601  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.65 | 112  | 125442   | 19.459  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 46563    | 18.848  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 230253   | 19.339  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.83 | 106  | 166551   | 38.293  | ug/l   | 97       |
| 69) o-Xylene                   | 12.16 | 106  | 77471    | 18.999  | ug/l   | 97       |
| 70) Styrene                    | 12.18 | 104  | 141862   | 19.557  | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 25581    | 19.714  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.46 | 105  | 225600   | 18.520  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 61530    | 19.636  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 42276    | 19.760  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 55075    | 34.214  | ug/l # | 100      |
| 77) Bromobenzene               | 12.74 | 156  | 53427    | 19.039  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.80 | 91   | 266424   | 18.594  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 155682   | 18.900  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 191004   | 18.535  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 12851    | 18.110  | ug/l   | 90       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 164363   | 18.912  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.20 | 119  | 170496   | 18.497  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 194132   | 19.064  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 229809   | 18.299  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 213053   | 18.478  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 103544   | 18.639  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 102747   | 18.821  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.82 | 91   | 198990   | 18.300  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.09 | 117  | 37285    | 18.045  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 92627    | 18.961  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.48 | 75   | 7708     | 19.683  | ug/l   | 96       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW091419\  
Quantitation Report (Not Reviewed)

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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
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Quant Title : SW846 8260  
QLast Update : Fri Sep 13 17:26:01 2019  
Response via : Initial Calibration

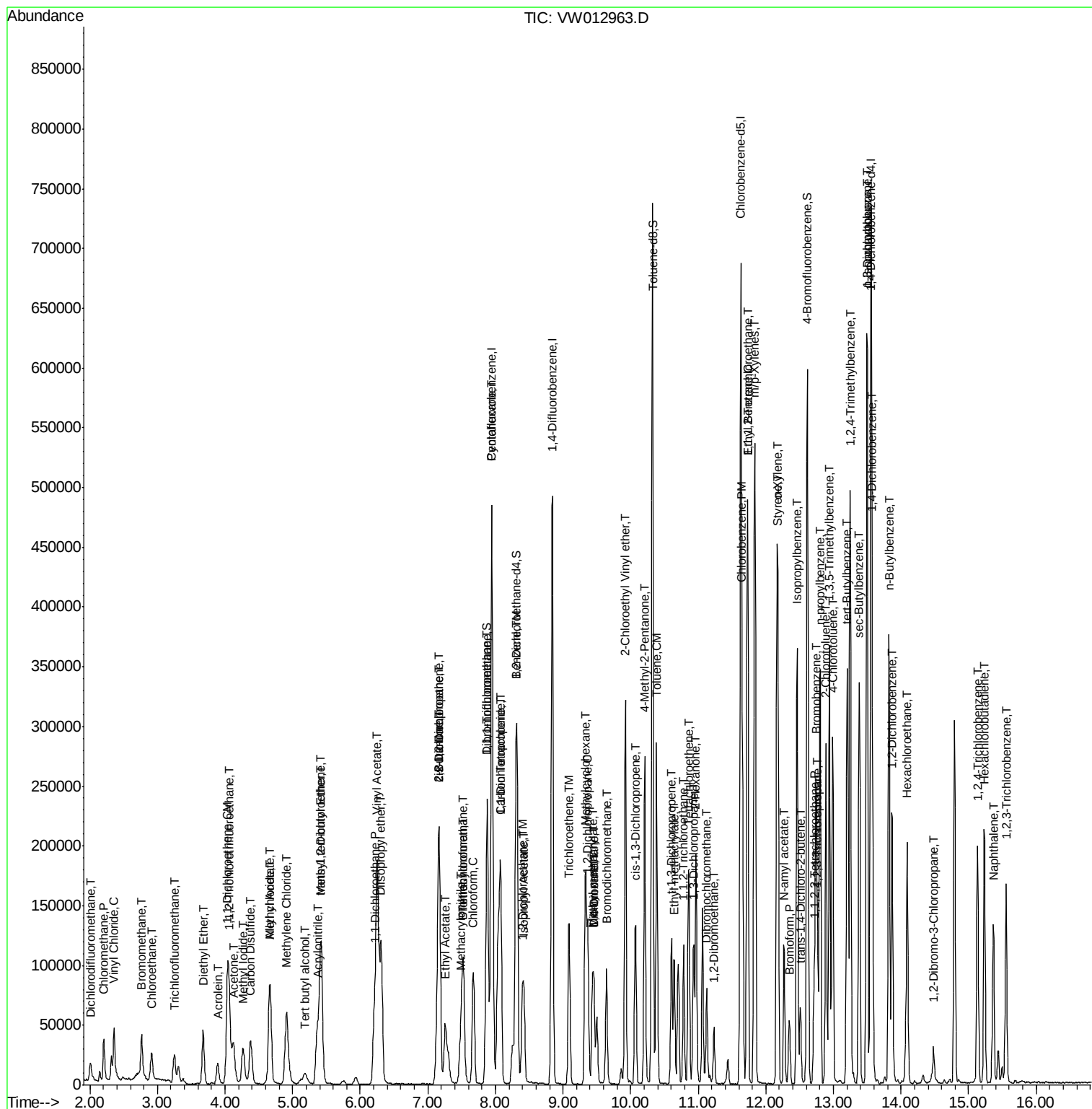
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 64702    | 18.571 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 46011    | 18.655 | ug/l  | 98       |
| 95) Naphthalene            | 15.36 | 128  | 113588   | 19.512 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 56242    | 18.262 | ug/l  | 98       |

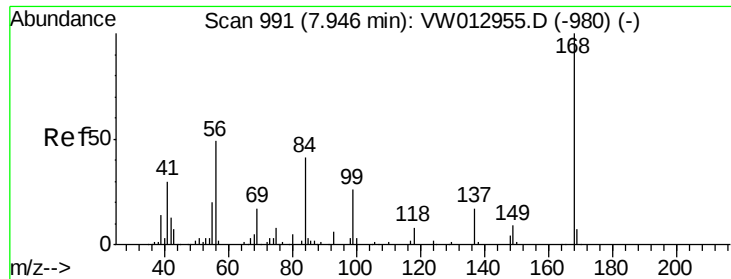
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

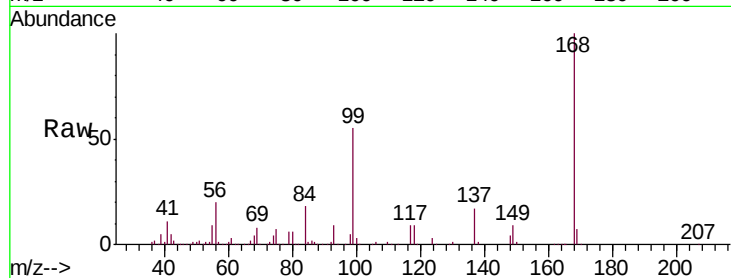
VW0914SBSD01

Tgt Ion:168 Resp: 280937

Ion Ratio Lower Upper

168 100

99 55.3 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

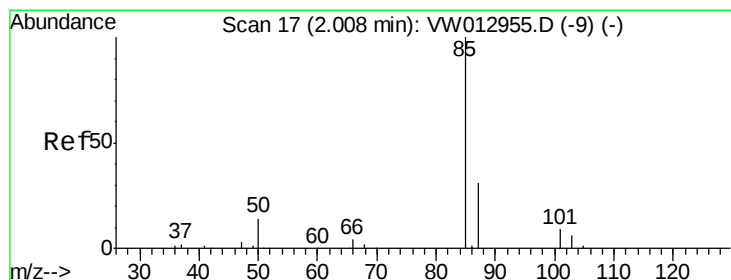
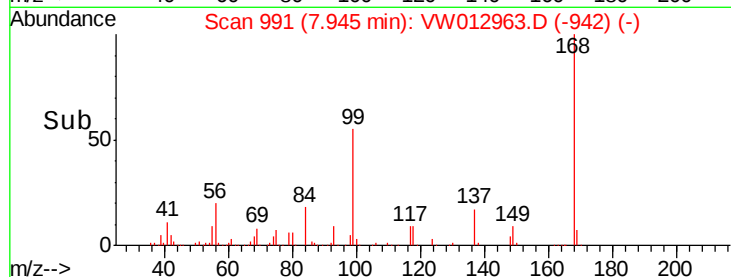
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100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 20.684 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW012963.D

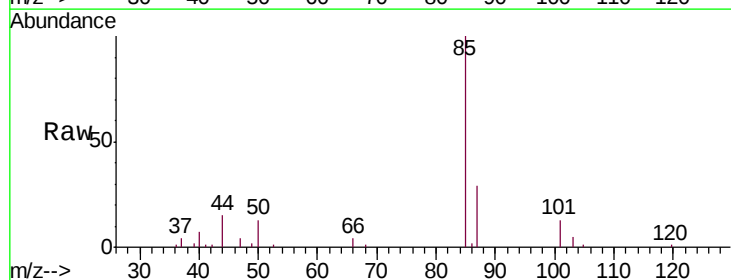
Acq: 13 Sep 2019 20:06

Tgt Ion: 85 Resp: 25065

Ion Ratio Lower Upper

85 100

87 28.9 15.4 46.4



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

10000

8000

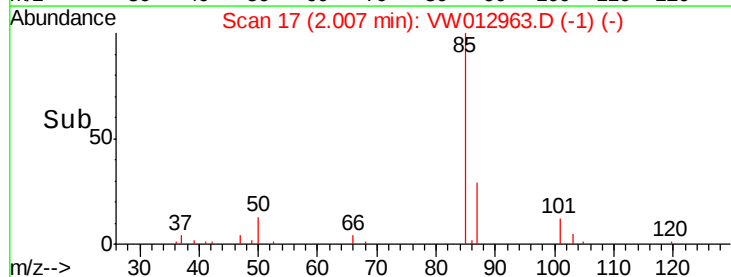
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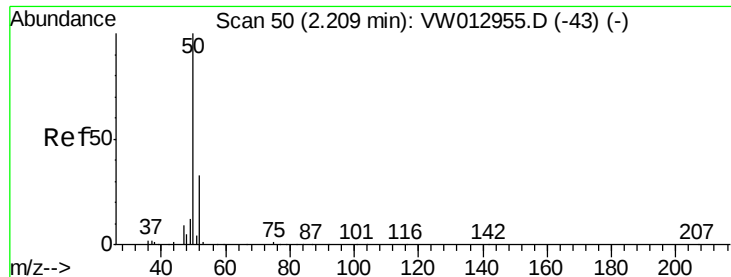
4000

2000

0

Time-->





#3

Chloromethane

Concen: 22.516 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

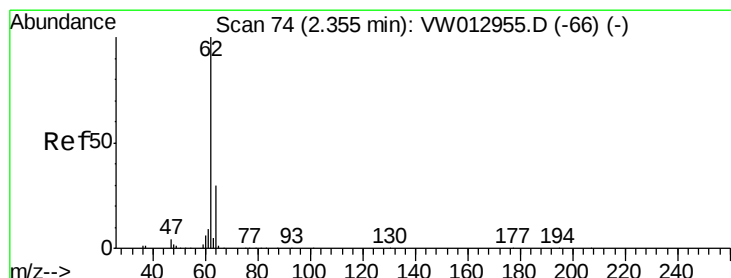
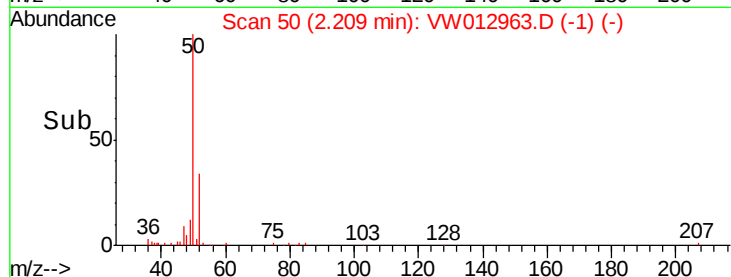
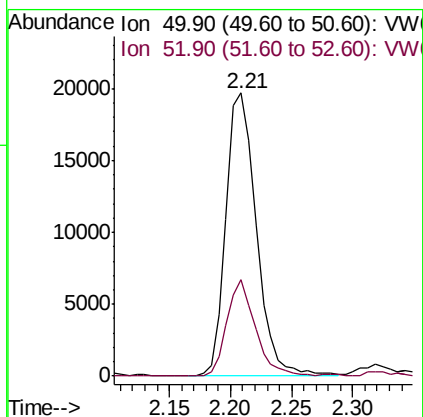
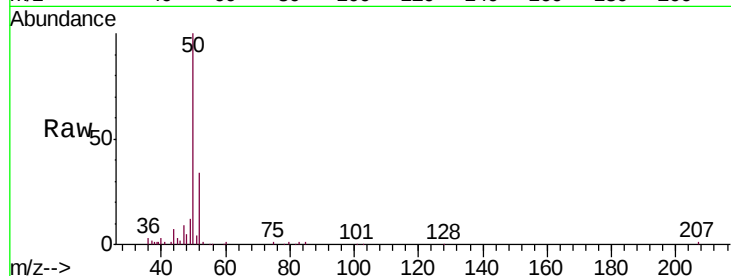
VW0914SBSD01

Tgt Ion: 50 Resp: 34046

Ion Ratio Lower Upper

50 100

52 34.0 26.6 39.8



#4

Vinyl Chloride

Concen: 21.281 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW012963.D

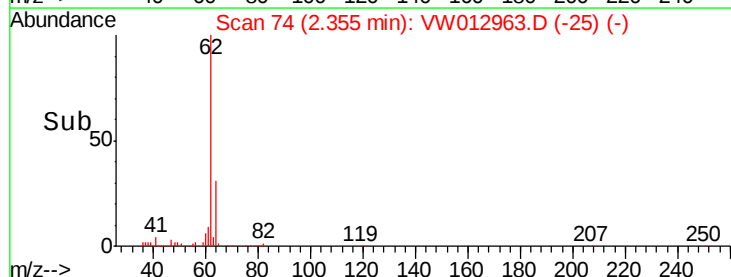
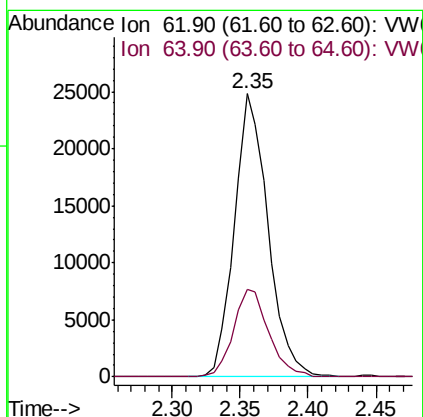
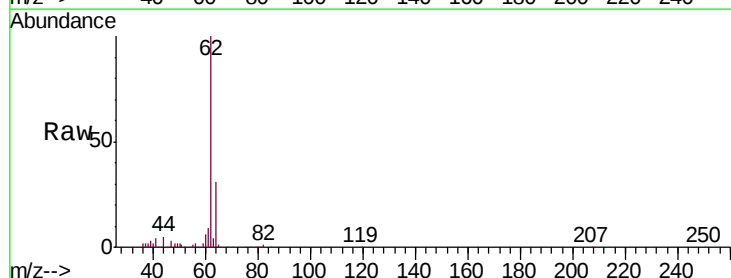
Acq: 13 Sep 2019 20:06

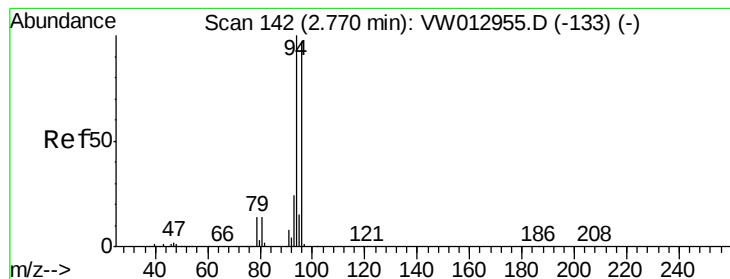
Tgt Ion: 62 Resp: 42794

Ion Ratio Lower Upper

62 100

64 30.8 24.2 36.4





#5

Bromomethane

Concen: 20.713 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.00 min

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Acq: 13 Sep 2019 20:06

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MSVOA\_W

ClientSampleId :

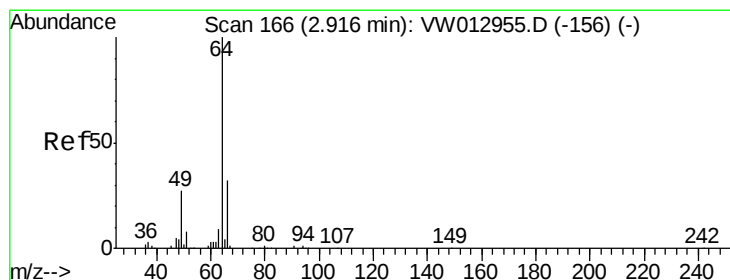
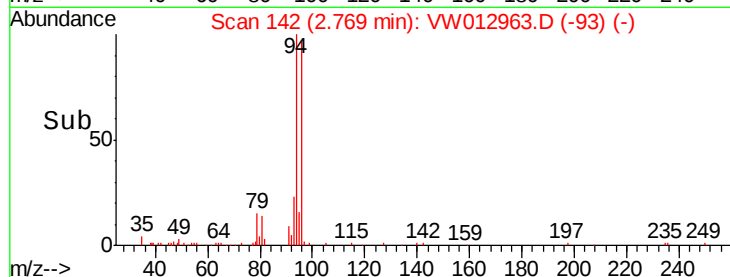
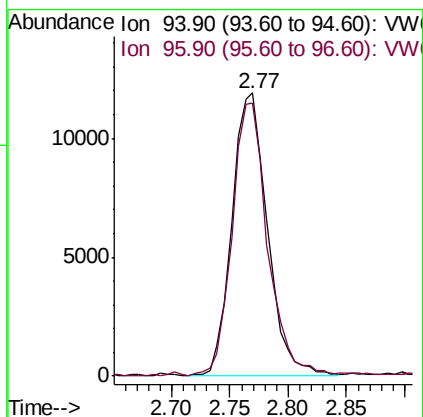
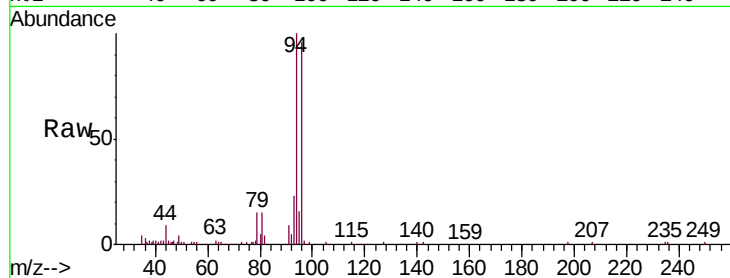
VW0914SBSD01

Tgt Ion: 94 Resp: 25435

Ion Ratio Lower Upper

94 100

96 96.3 77.8 116.6



#6

Chloroethane

Concen: 20.544 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW012963.D

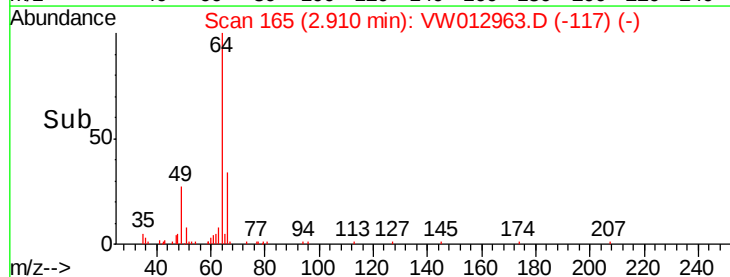
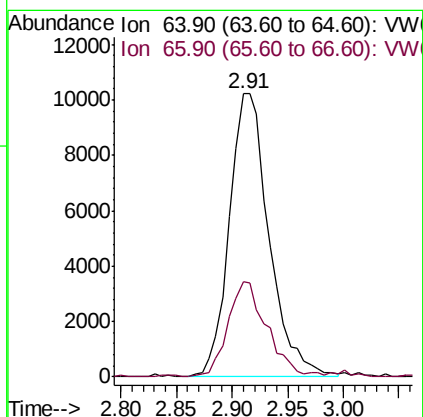
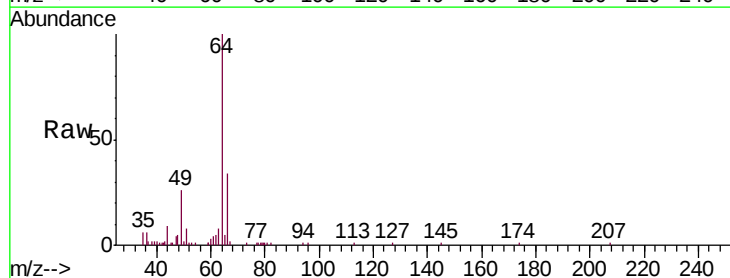
Acq: 13 Sep 2019 20:06

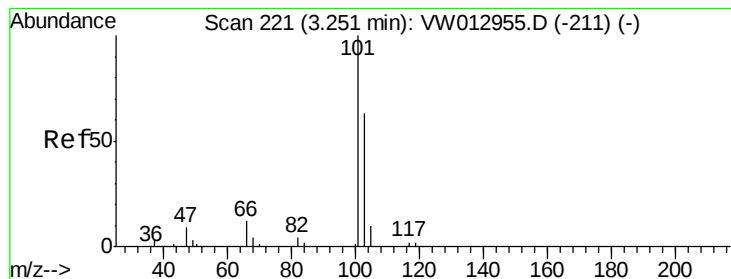
Tgt Ion: 64 Resp: 25337

Ion Ratio Lower Upper

64 100

66 33.5 25.9 38.9



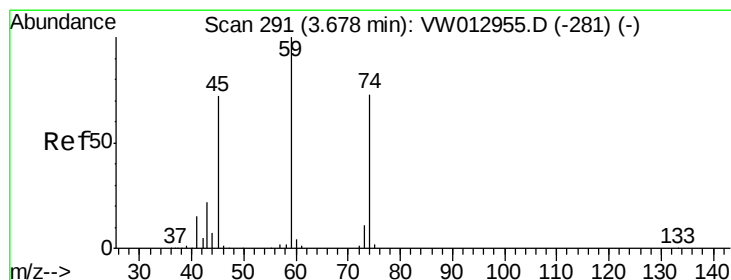
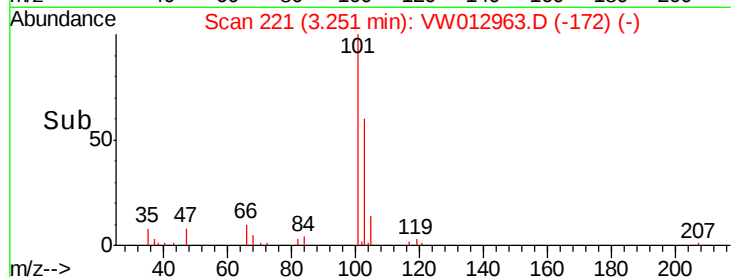
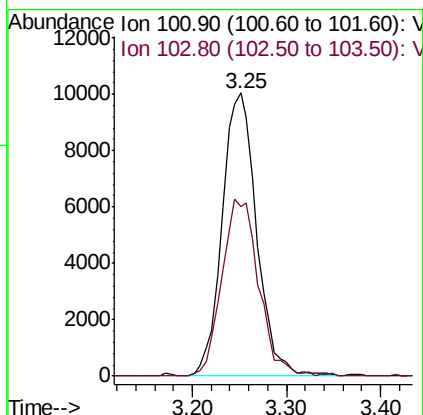
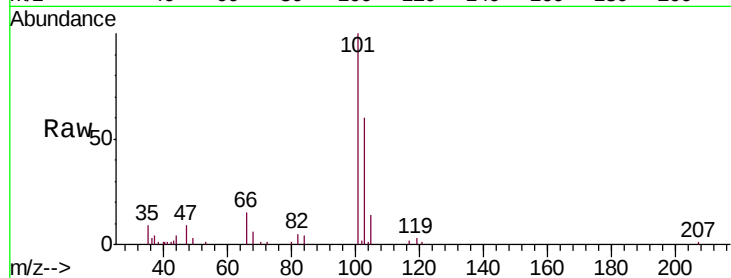


#7

Trichlorofluoromethane  
 Concen: 18.174 ug/l  
 RT: 3.25 min Scan# 221  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

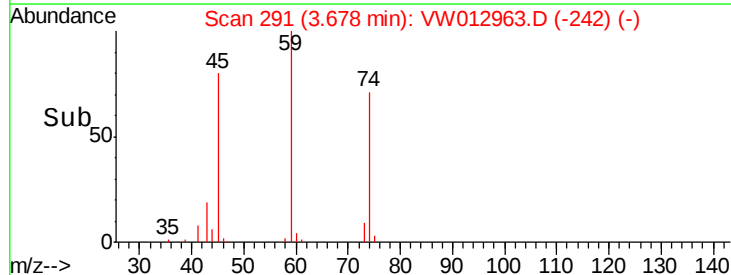
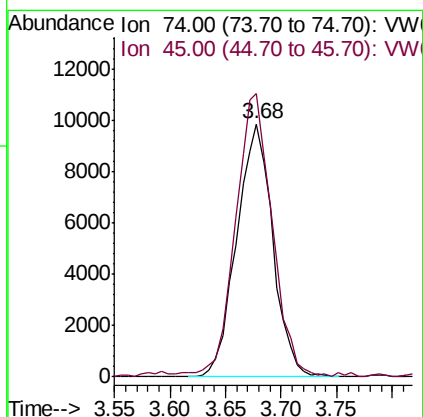
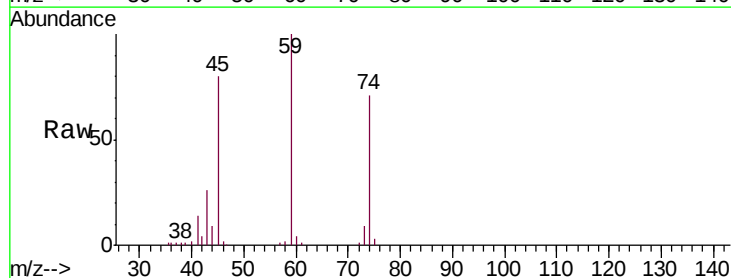
Tgt Ion:101 Resp: 25556  
 Ion Ratio Lower Upper  
 101 100  
 103 59.7 50.7 76.1

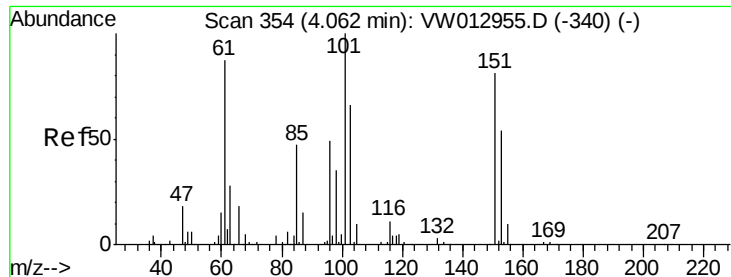


#8

Diethyl Ether  
 Concen: 20.219 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

Tgt Ion: 74 Resp: 22200  
 Ion Ratio Lower Upper  
 74 100  
 45 114.2 53.8 161.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.521 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0914SBSD01

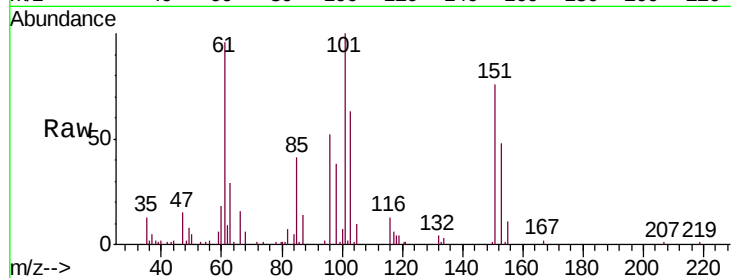
Tgt Ion:101 Resp: 41634

Ion Ratio Lower Upper

101 100

85 42.3 34.9 52.3

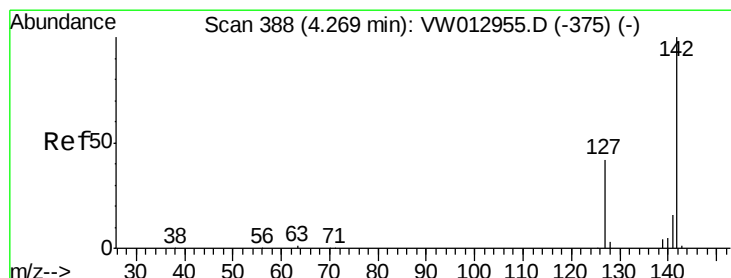
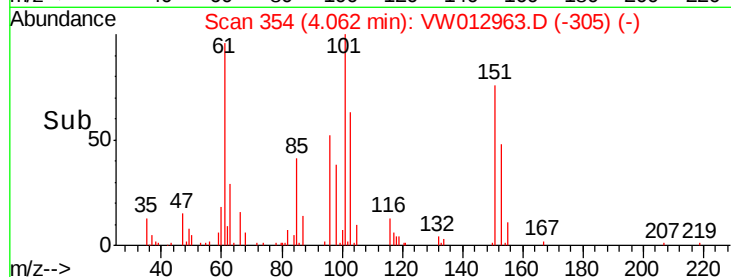
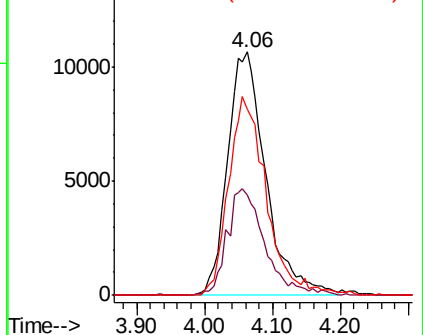
151 80.6 66.0 99.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.994 ug/l

RT: 4.26 min Scan# 387

Delta R.T. -0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

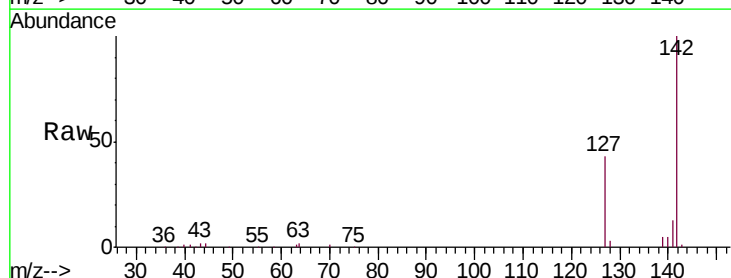
Tgt Ion:142 Resp: 56034

Ion Ratio Lower Upper

142 100

127 43.5 34.7 52.1

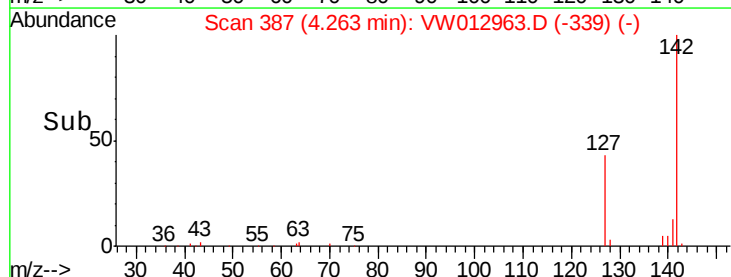
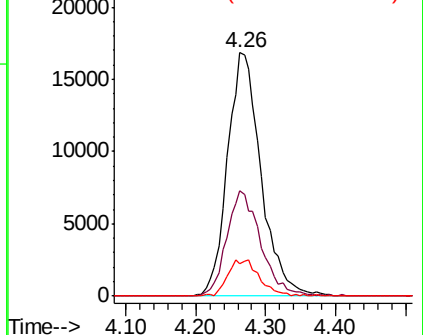
141 14.2 12.2 18.2

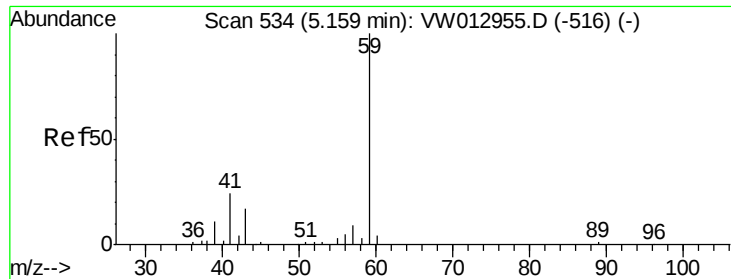


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

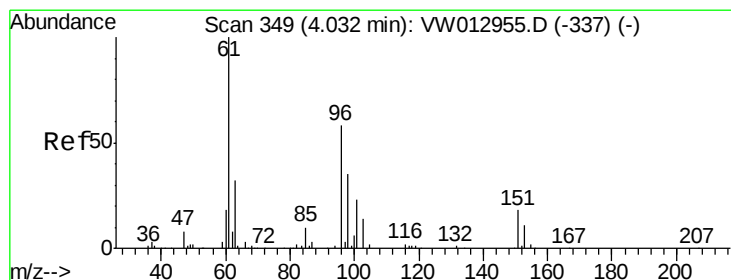
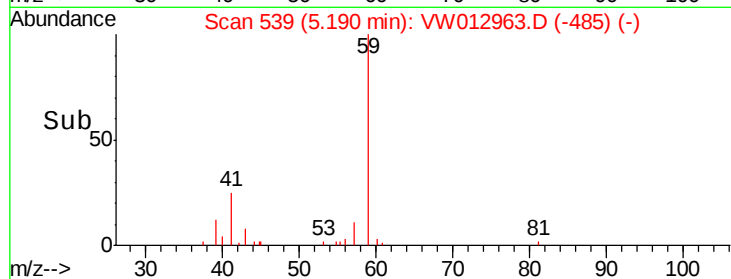
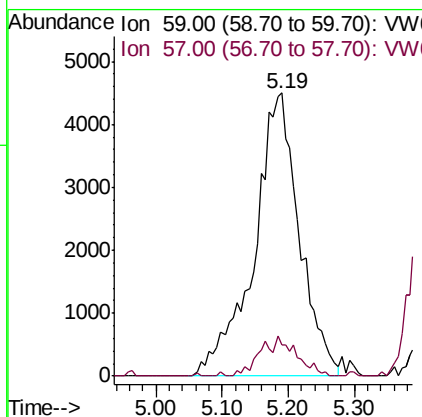
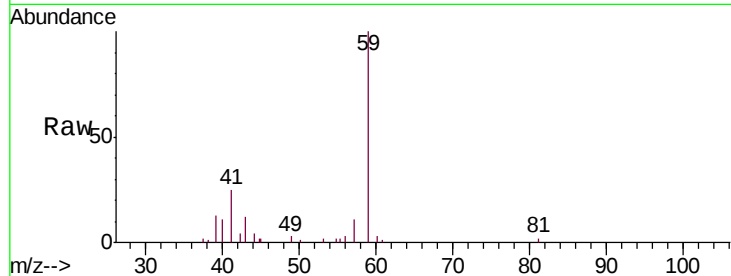




#11  
Tert butyl alcohol  
Concen: 110.510 ug/l  
RT: 5.19 min Scan# 539  
Delta R.T. 0.03 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

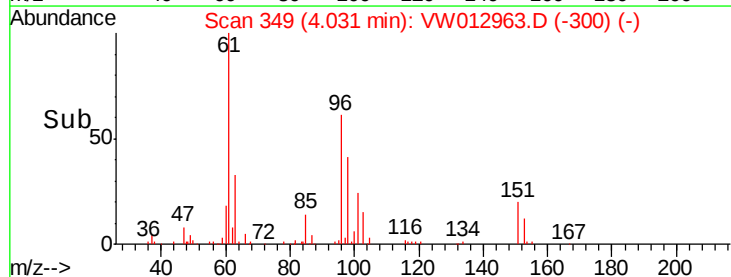
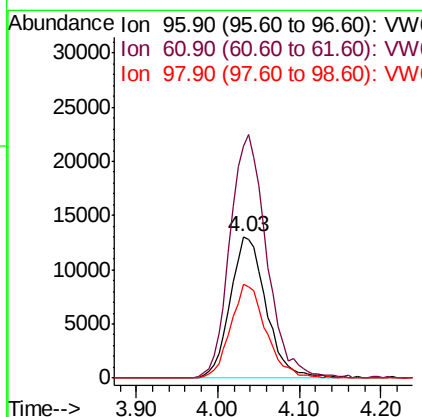
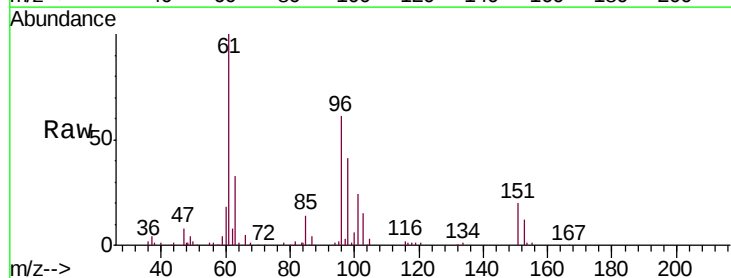
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

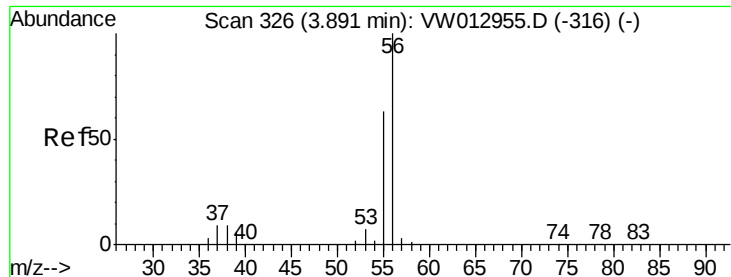
Tgt Ion: 59 Resp: 21449  
Ion Ratio Lower Upper  
59 100  
57 6.5 8.5 12.7#



#12  
1,1-Dichloroethene  
Concen: 20.415 ug/l  
RT: 4.03 min Scan# 349  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion: 96 Resp: 39589  
Ion Ratio Lower Upper  
96 100  
61 164.0 137.9 206.9  
98 66.8 48.9 73.3

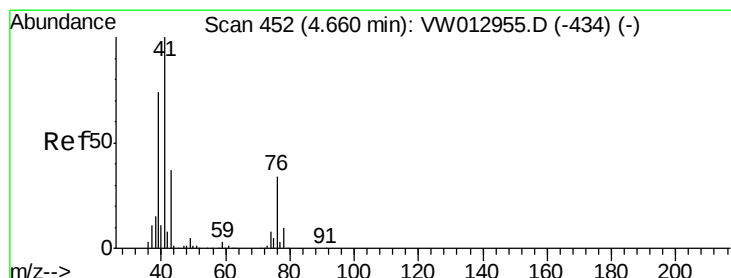
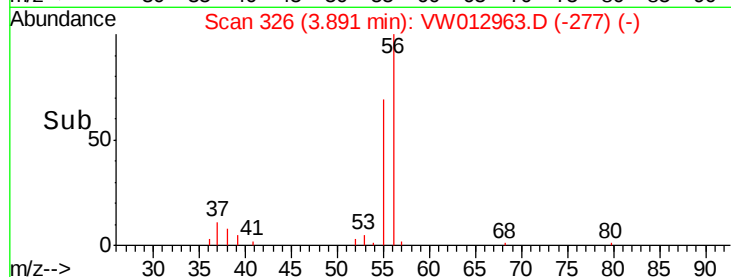
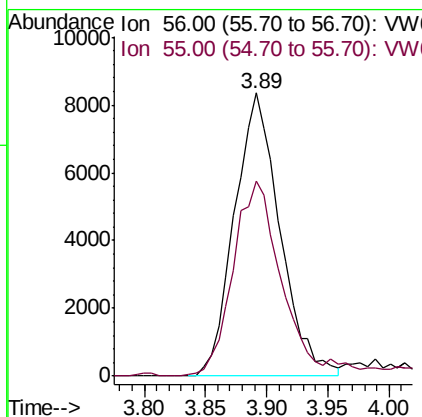
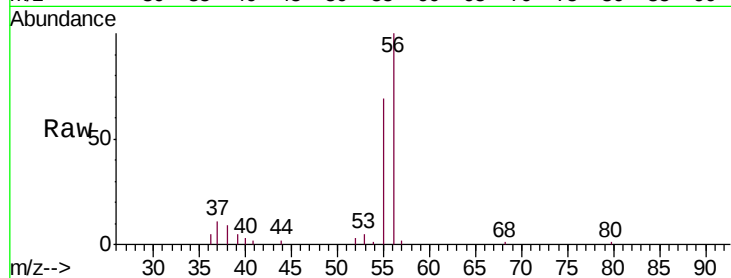




#13  
 Acrolein  
 Concen: 108.983 ug/l  
 RT: 3.89 min Scan# 326  
 Delta R.T. 0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

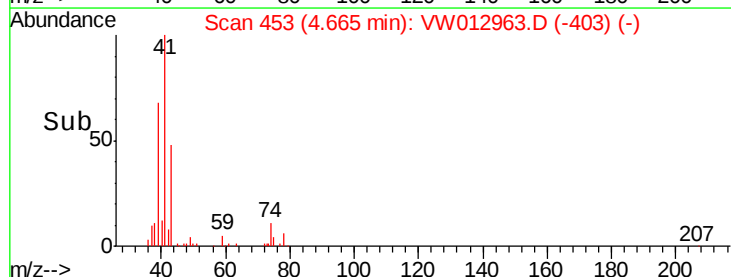
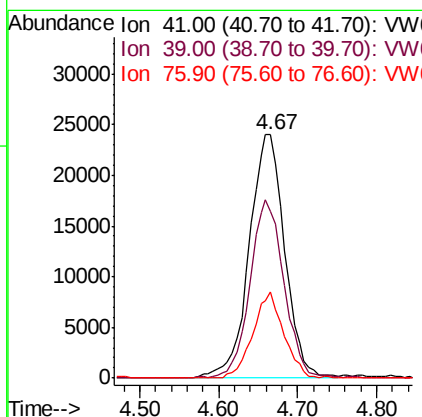
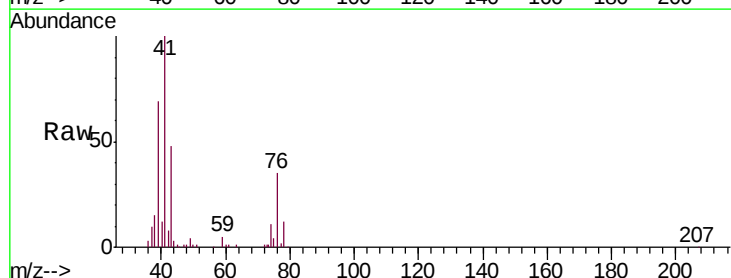
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

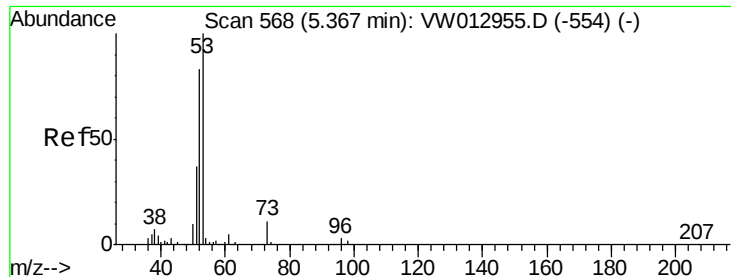
Tgt Ion: 56 Resp: 21602  
 Ion Ratio Lower Upper  
 56 100  
 55 71.2 55.8 83.8



#14  
 Allyl chloride  
 Concen: 20.390 ug/l  
 RT: 4.67 min Scan# 453  
 Delta R.T. 0.01 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

Tgt Ion: 41 Resp: 75063  
 Ion Ratio Lower Upper  
 41 100  
 39 70.4 56.7 85.1  
 76 30.8 25.1 37.7





#15

Acrylonitrile

Concen: 104.944 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0914SBSD01

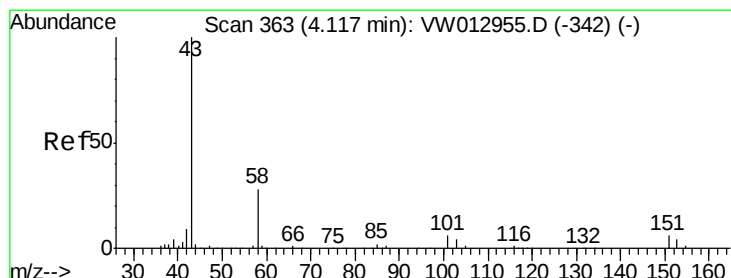
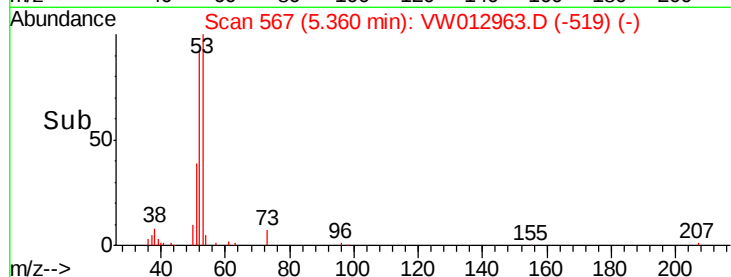
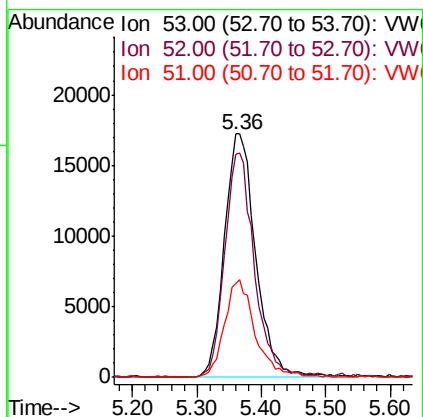
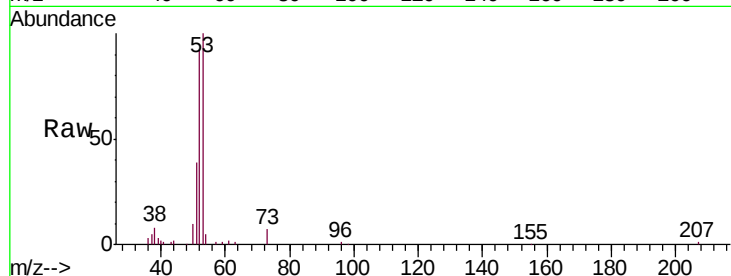
Tgt Ion: 53 Resp: 58852

Ion Ratio Lower Upper

53 100

52 86.9 66.6 100.0

51 38.3 29.8 44.8



#16

Acetone

Concen: 81.821 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012963.D

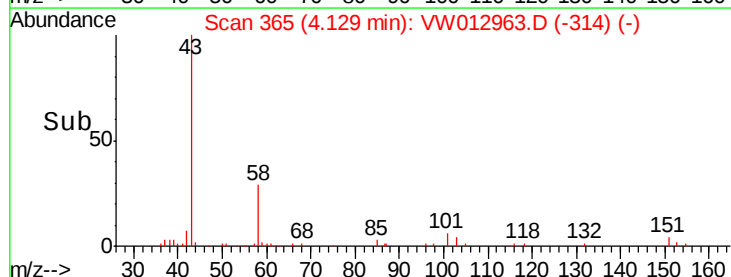
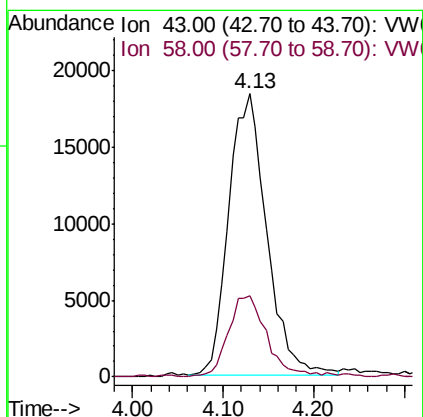
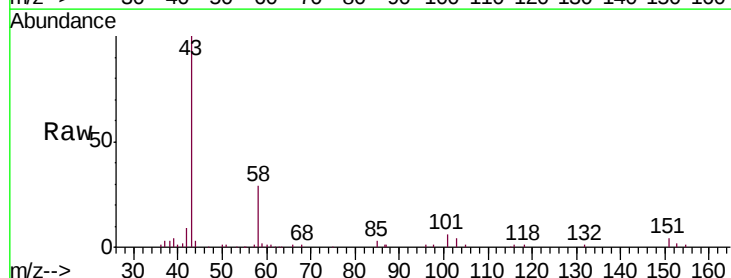
Acq: 13 Sep 2019 20:06

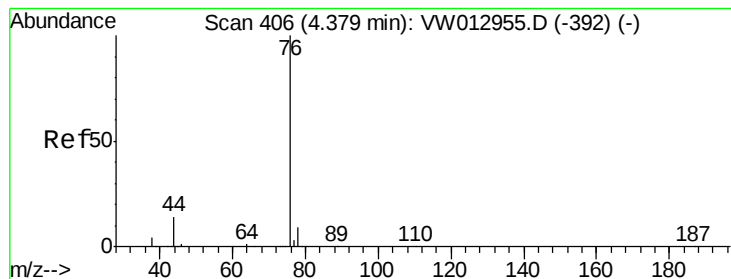
Tgt Ion: 43 Resp: 53470

Ion Ratio Lower Upper

43 100

58 28.9 22.3 33.5





#17

Carbon Disulfide

Concen: 21.228 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

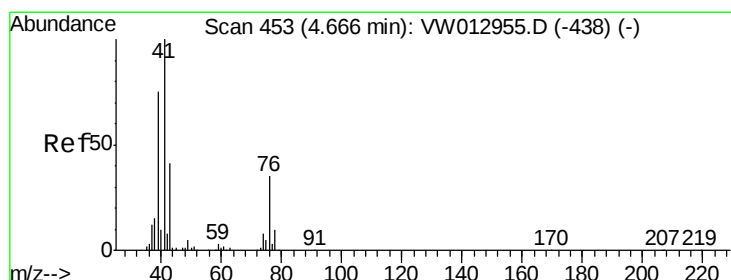
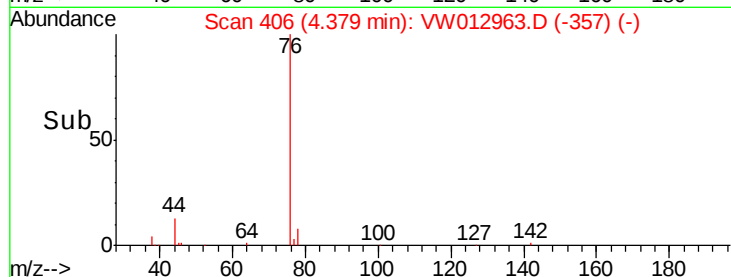
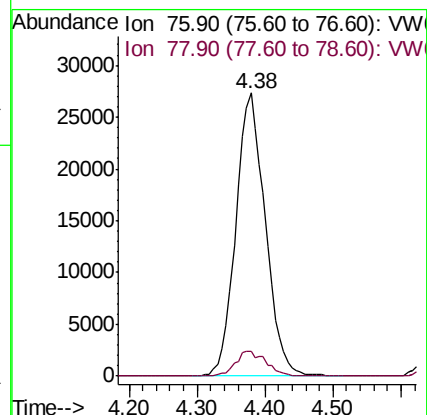
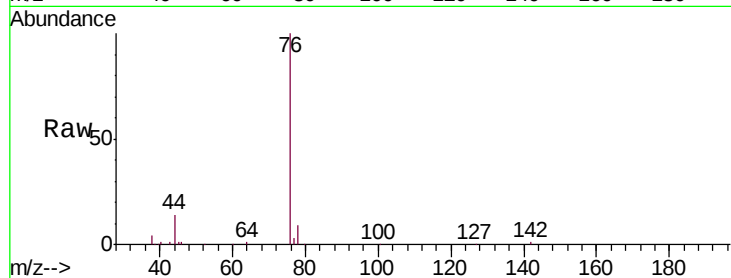
VW0914SBSD01

Tgt Ion: 76 Resp: 82036

Ion Ratio Lower Upper

76 100

78 8.8 7.0 10.4



#18

Methyl Acetate

Concen: 23.920 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW012963.D

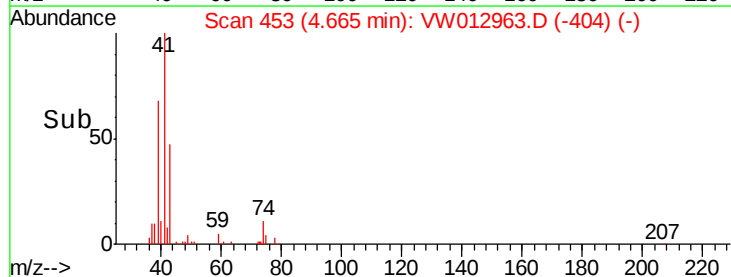
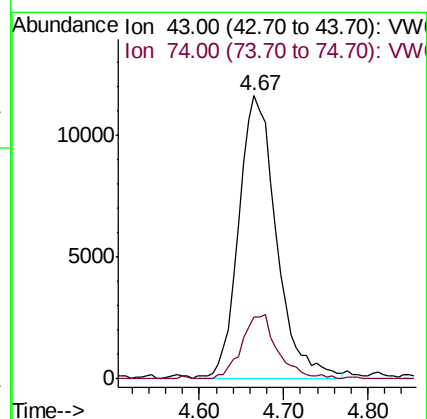
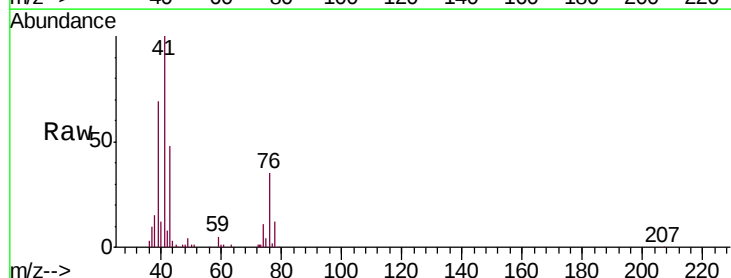
Acq: 13 Sep 2019 20:06

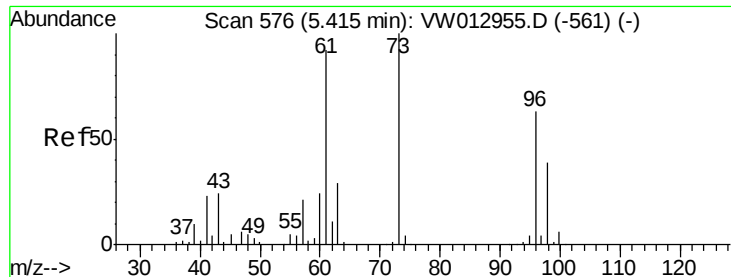
Tgt Ion: 43 Resp: 35359

Ion Ratio Lower Upper

43 100

74 21.1 17.8 26.8

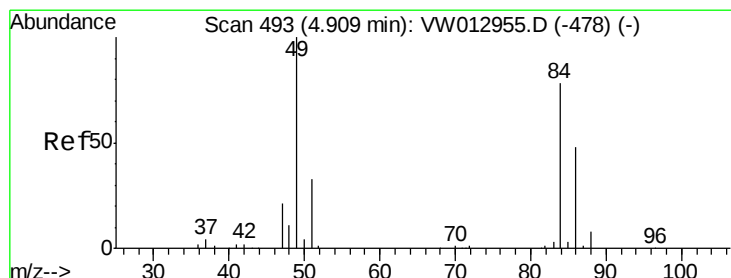
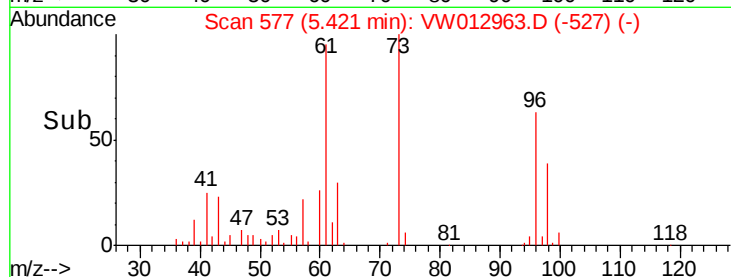
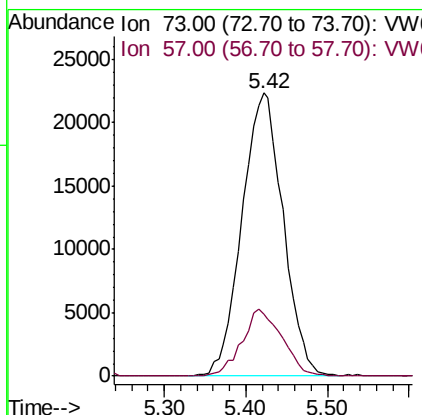
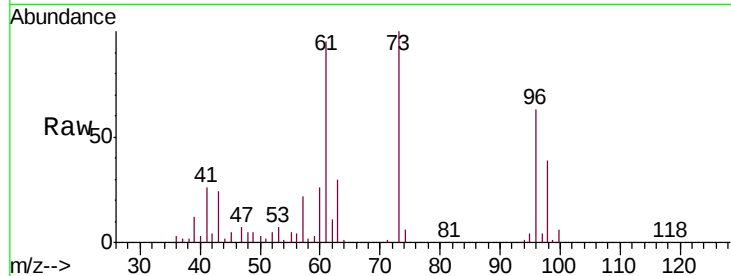




#19  
Methyl tert-butyl Ether  
Concen: 20.443 ug/l  
RT: 5.42 min Scan# 577  
Delta R.T. 0.01 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

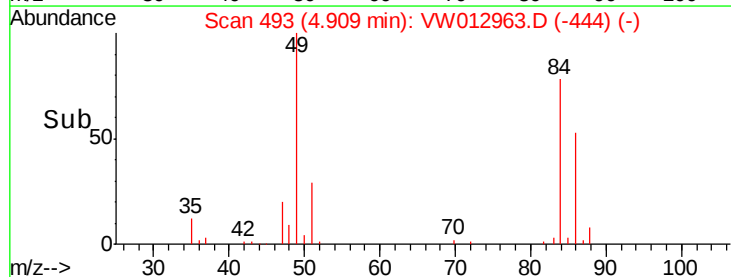
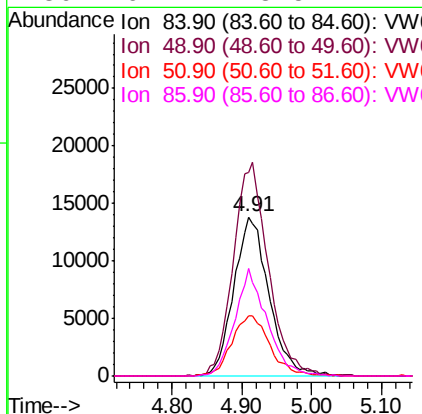
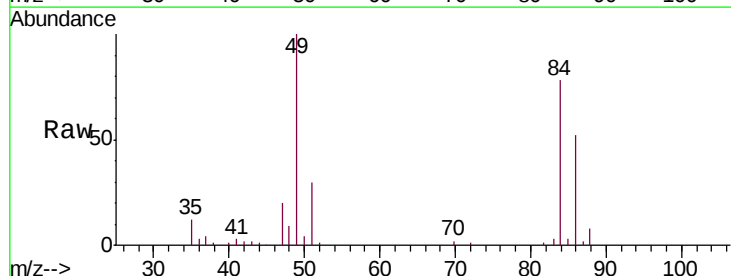
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

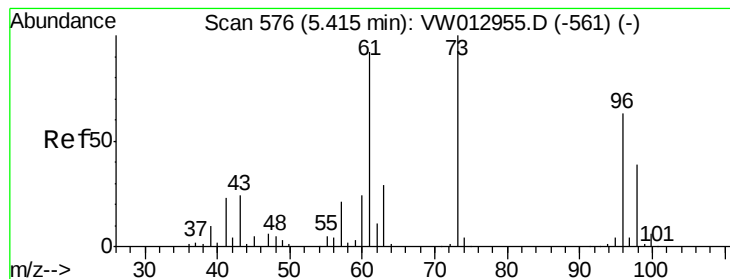
Tgt Ion: 73 Resp: 78253  
Ion Ratio Lower Upper  
73 100  
57 21.7 16.4 24.6



#20  
Methylene Chloride  
Concen: 19.874 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. 0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion: 84 Resp: 48211  
Ion Ratio Lower Upper  
84 100  
49 128.1 102.0 153.0  
51 37.9 34.0 51.0  
86 67.4 48.5 72.7





#21

trans-1,2-Dichloroethene

Concen: 20.103 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0914SBSD01

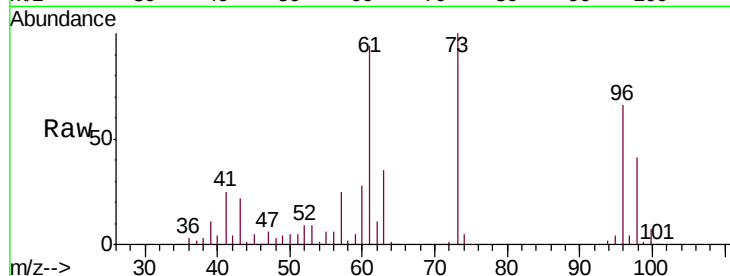
Tgt Ion: 96 Resp: 41752

Ion Ratio Lower Upper

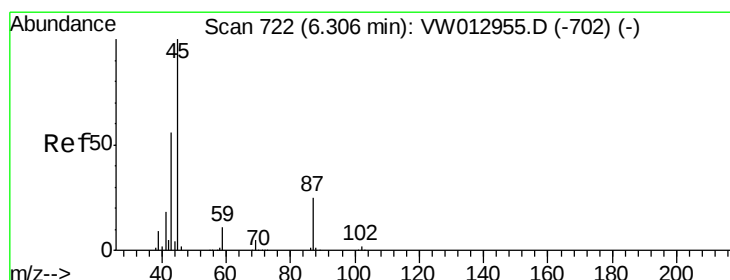
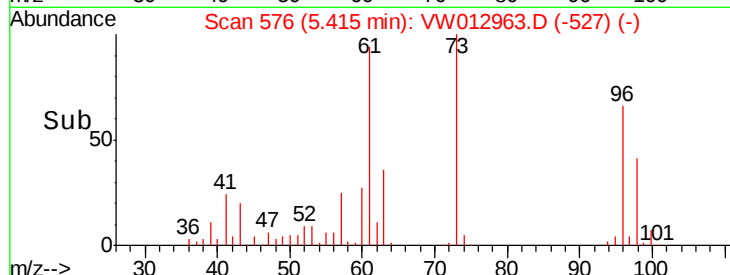
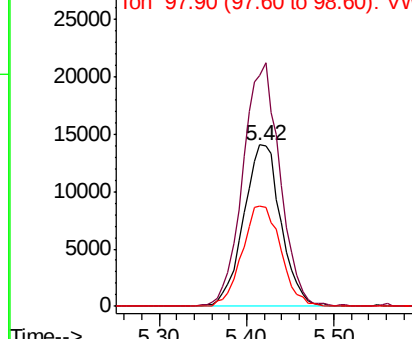
96 100

61 142.6 116.2 174.2

98 62.4 49.8 74.6



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: 20.108 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Tgt Ion: 45 Resp: 153786

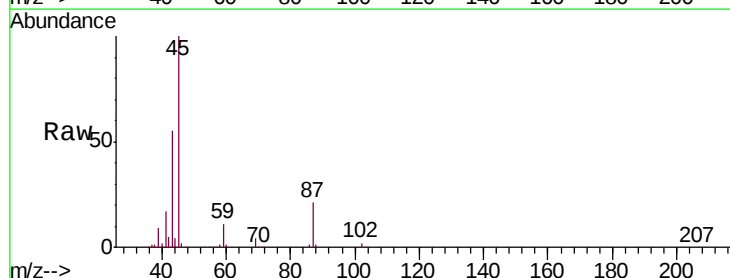
Ion Ratio Lower Upper

45 100

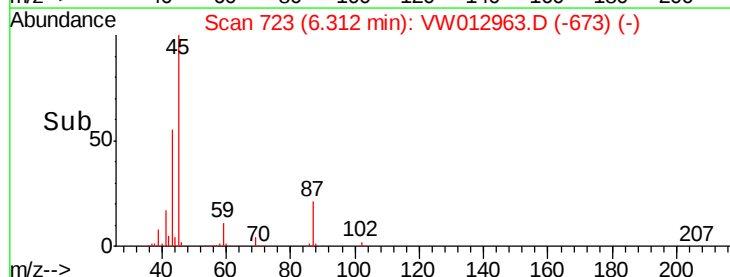
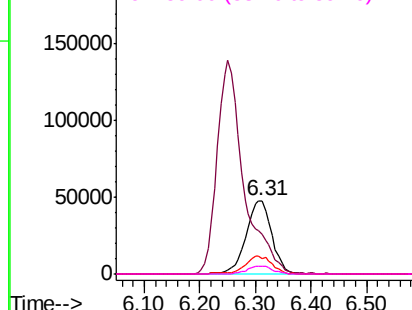
43 54.6 44.6 67.0

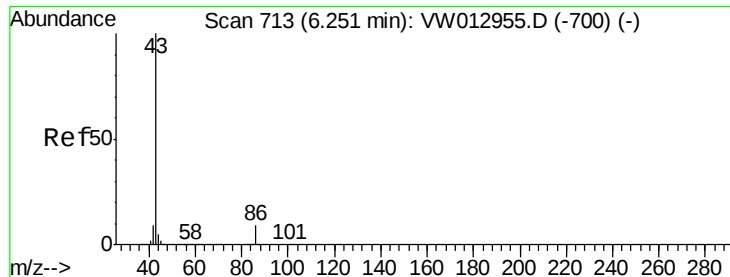
87 21.1 20.0 30.0

59 11.3 8.7 13.1



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: 101.374 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

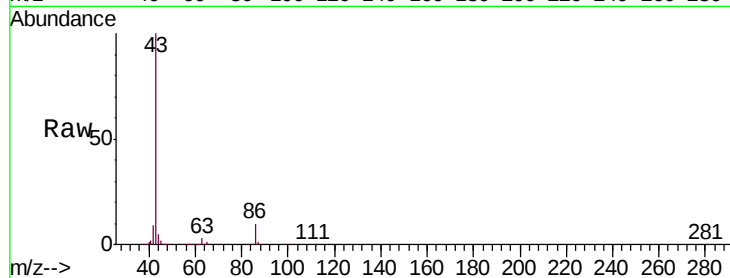
VW0914SBSD01

Tgt Ion: 43 Resp: 464356

Ion Ratio Lower Upper

43 100

86 9.7 7.0 10.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.25

150000

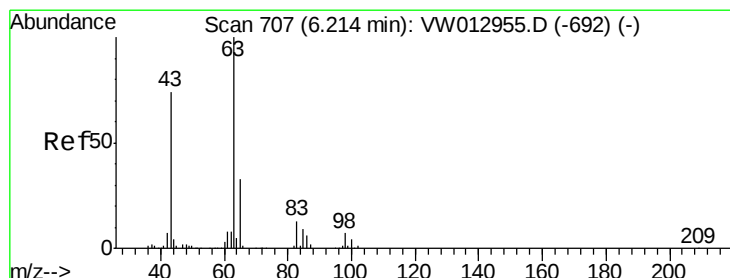
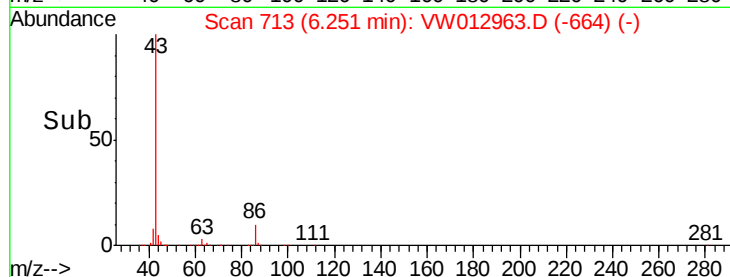
100000

50000

0

Time-->

6.10 6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 19.931 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

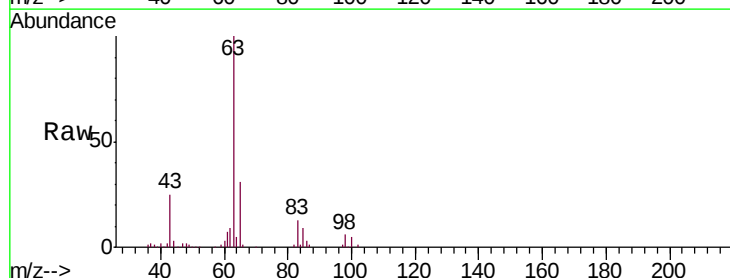
Tgt Ion: 63 Resp: 87888

Ion Ratio Lower Upper

63 100

98 6.2 3.3 9.9

100 5.2 1.8 5.5



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

40000

30000

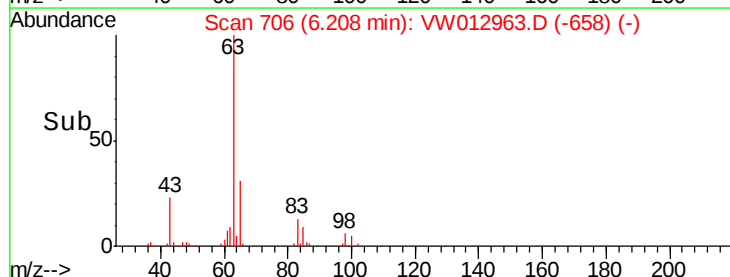
20000

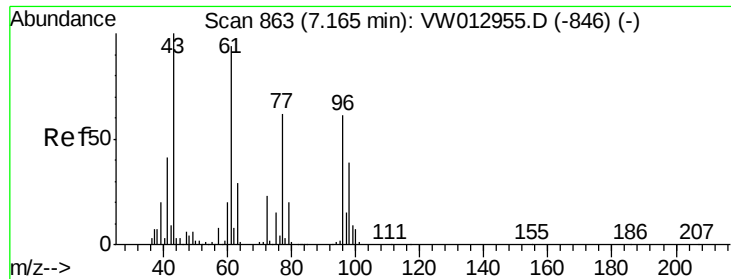
10000

0

Time-->

6.10 6.20 6.30





#25

2-Butanone

Concen: 102.783 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampled :

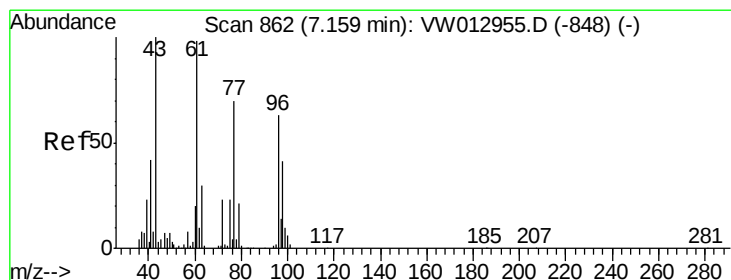
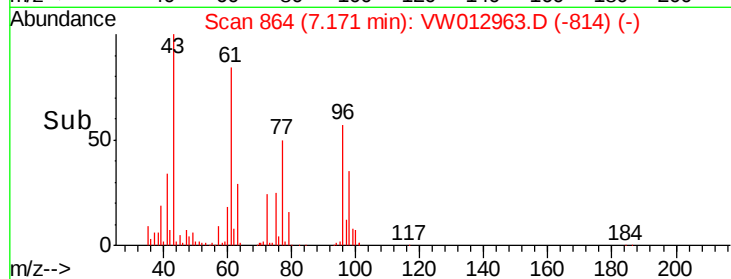
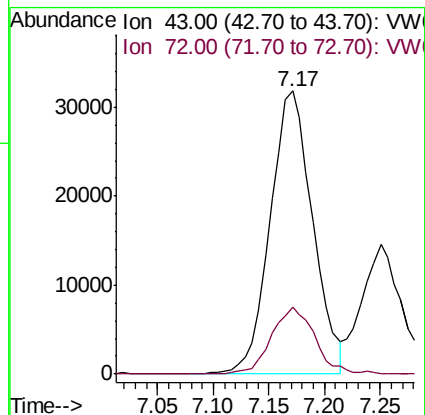
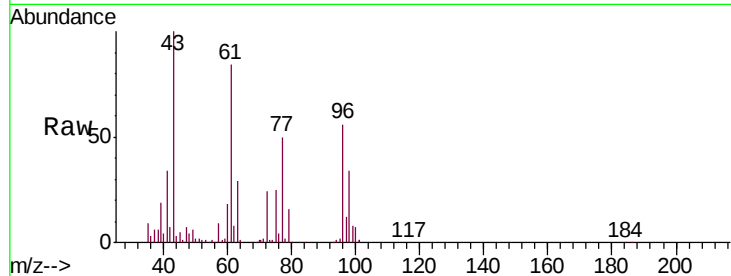
VW0914SBSD01

Tgt Ion: 43 Resp: 84800

Ion Ratio Lower Upper

43 100

72 23.7 18.2 27.4



#26

2,2-Dichloropropane

Concen: 17.655 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW012963.D

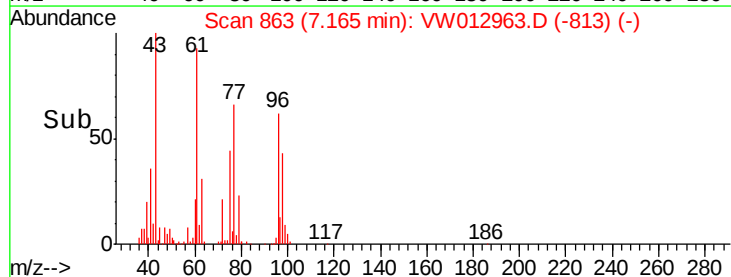
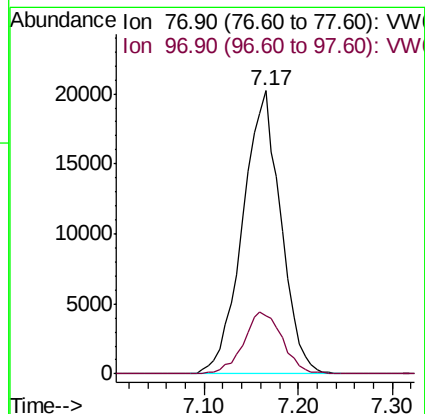
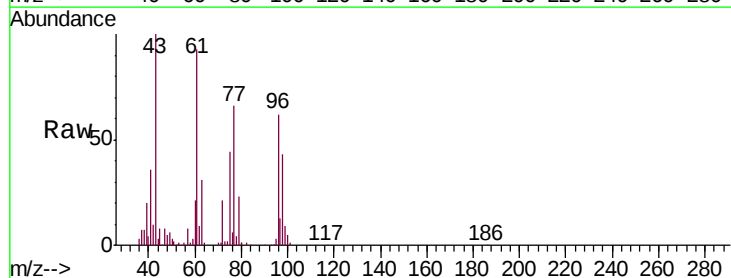
Acq: 13 Sep 2019 20:06

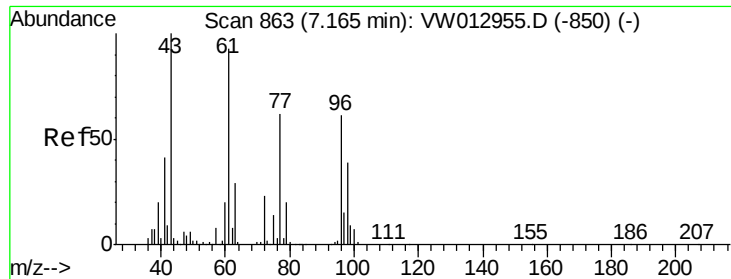
Tgt Ion: 77 Resp: 57255

Ion Ratio Lower Upper

77 100

97 22.2 10.7 32.1



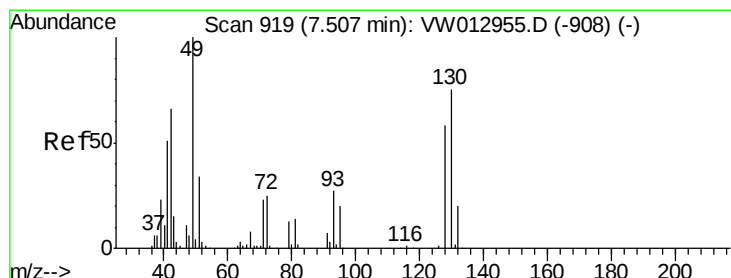
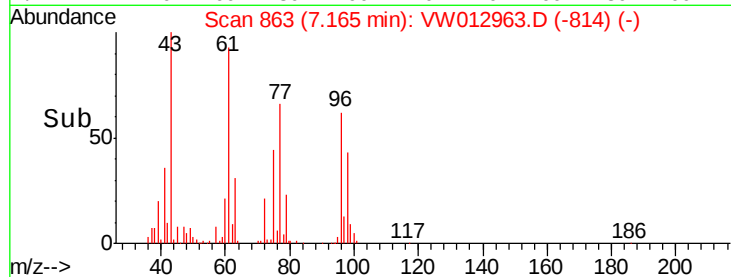
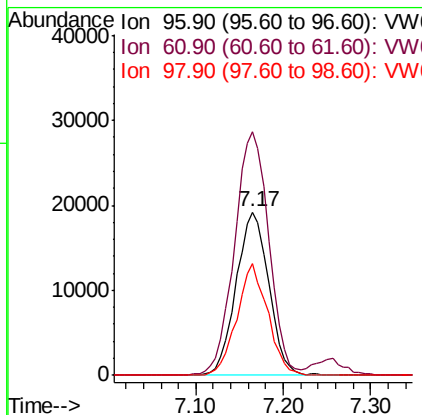
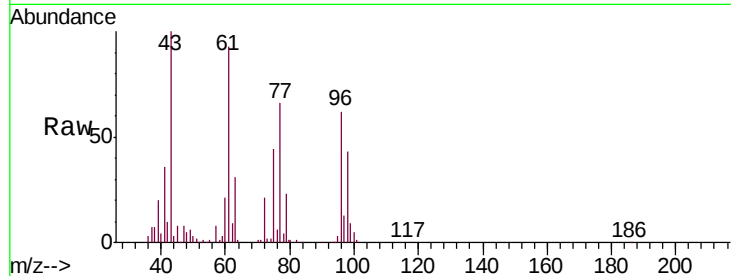


#27

cis-1,2-Dichloroethene  
Concen: 20.024 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

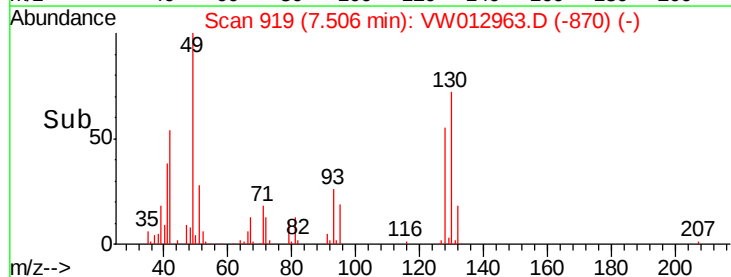
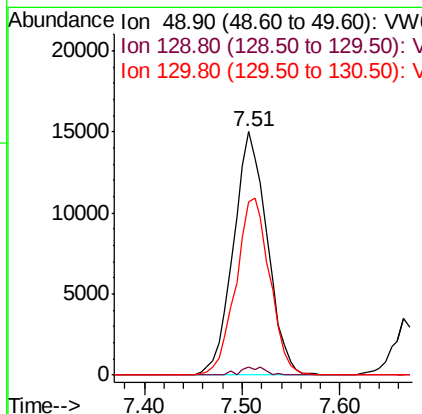
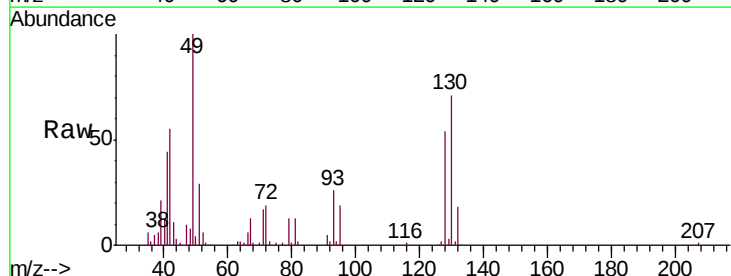
Tgt Ion: 96 Resp: 49790  
Ion Ratio Lower Upper  
96 100  
61 157.0 0.0 315.4  
98 65.0 0.0 131.0

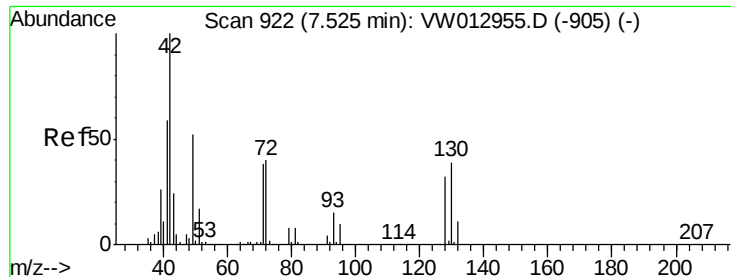


#28

Bromochloromethane  
Concen: 19.370 ug/l  
RT: 7.51 min Scan# 919  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion: 49 Resp: 35951  
Ion Ratio Lower Upper  
49 100  
129 2.3 0.0 1.4#  
130 73.0 57.8 86.6

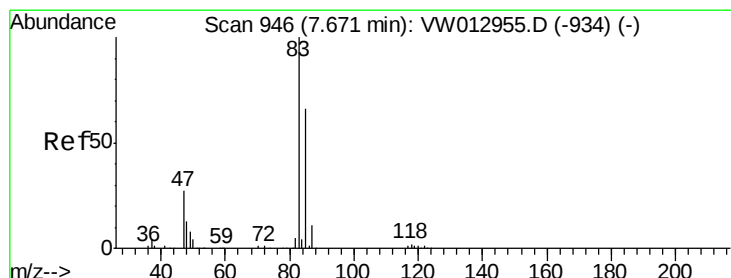
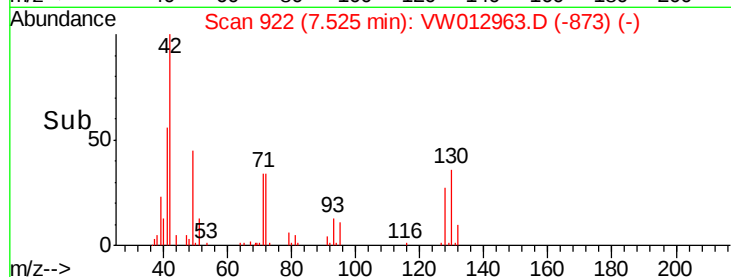
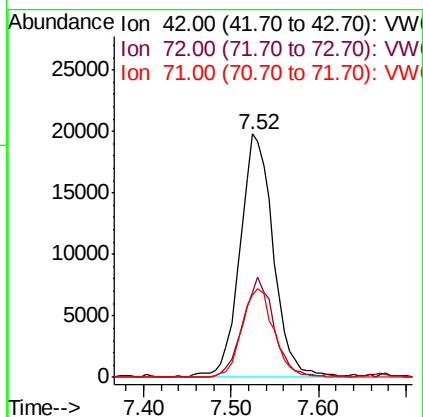
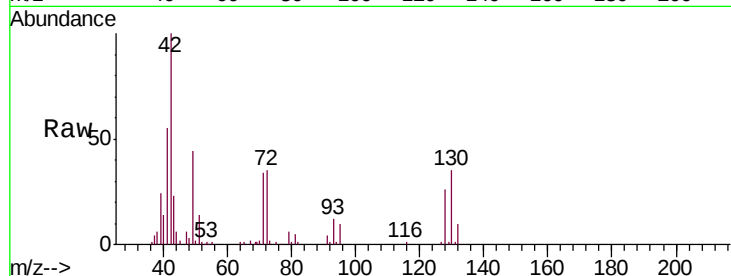




#29  
Tetrahydrofuran  
Concen: 111.387 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

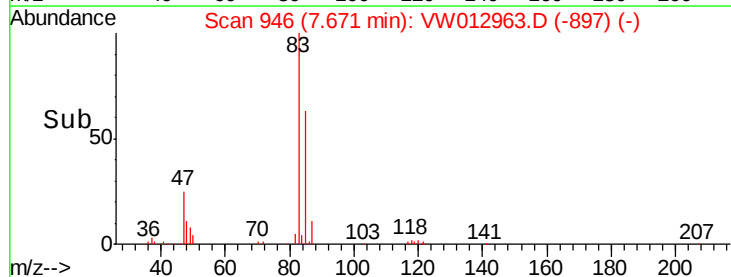
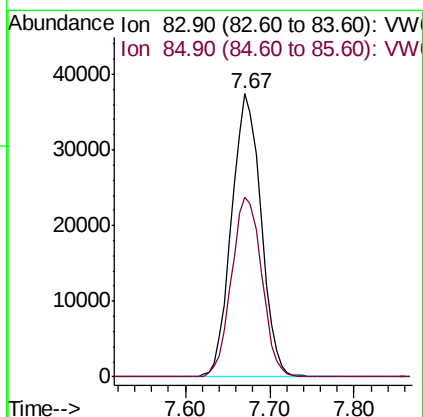
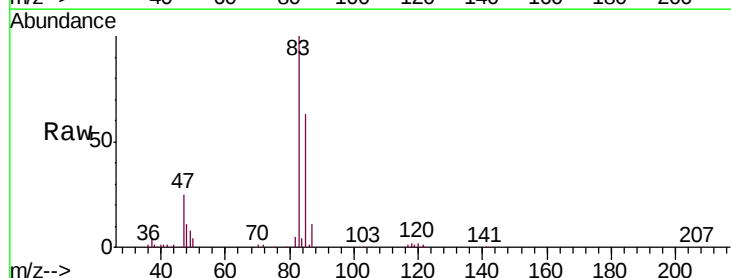
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

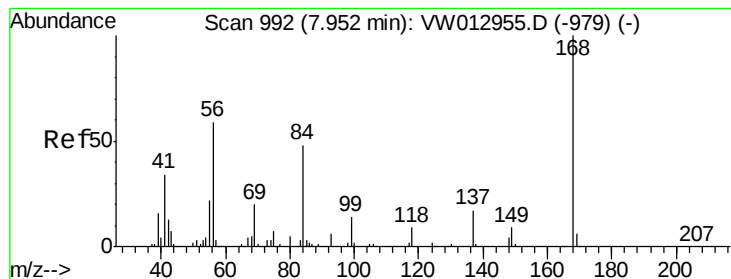
Tgt Ion: 42 Resp: 52362  
Ion Ratio Lower Upper  
42 100  
72 38.4 31.4 47.0  
71 35.2 29.8 44.8



#30  
Chloroform  
Concen: 19.731 ug/l  
RT: 7.67 min Scan# 946  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion: 83 Resp: 88404  
Ion Ratio Lower Upper  
83 100  
85 63.3 52.8 79.2





#31

Cyclohexane

Concen: 19.457 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0914SBSD01

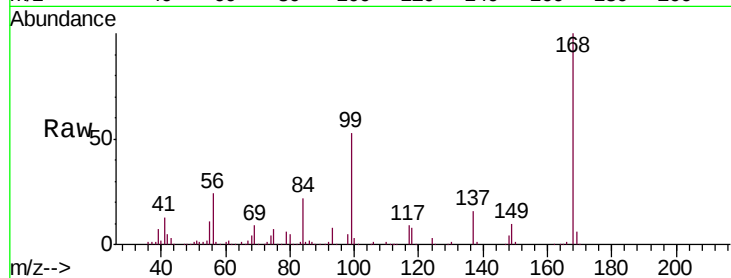
Tgt Ion: 56 Resp: 73001

Ion Ratio Lower Upper

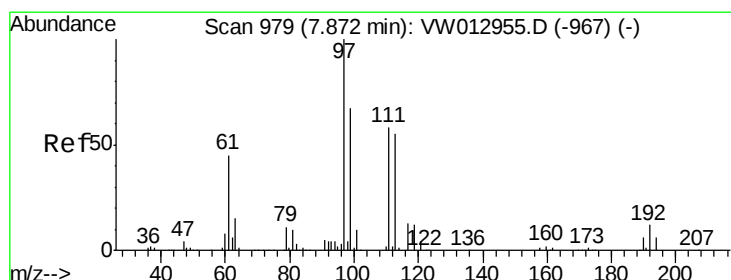
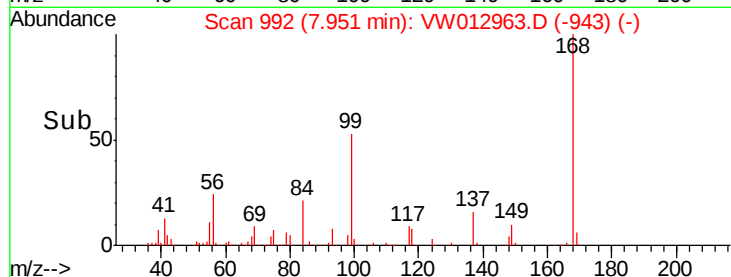
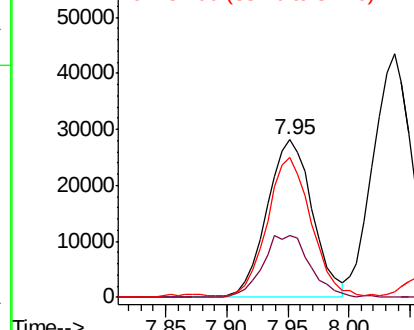
56 100

69 39.0 27.0 40.6

84 86.7 66.2 99.2



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: 19.414 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

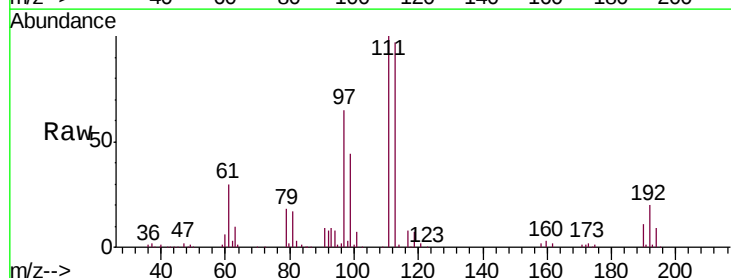
Tgt Ion: 97 Resp: 71634

Ion Ratio Lower Upper

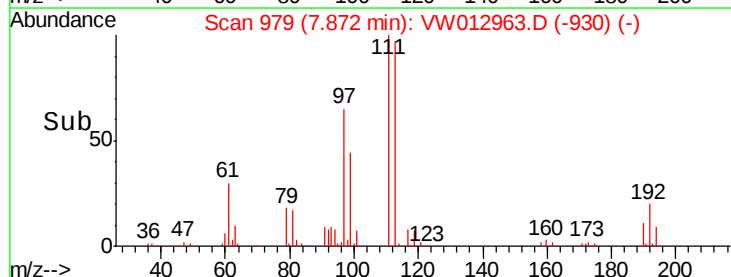
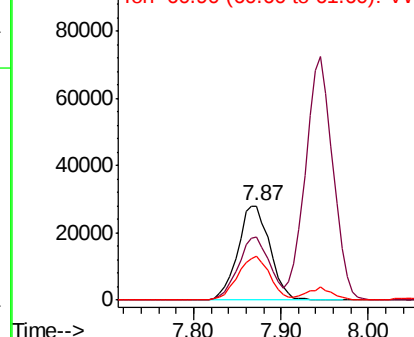
97 100

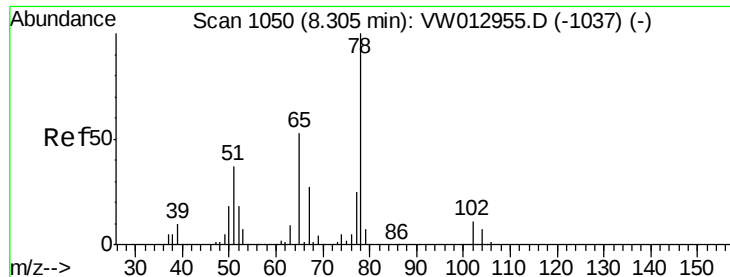
99 66.1 53.0 79.4

61 45.9 36.5 54.7



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: 55.065 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

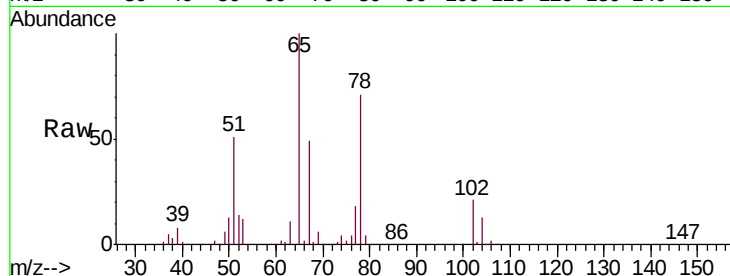
VW0914SBSD01

Tgt Ion: 65 Resp: 142874

Ion Ratio Lower Upper

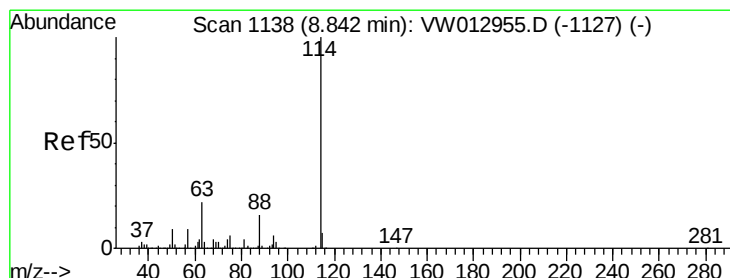
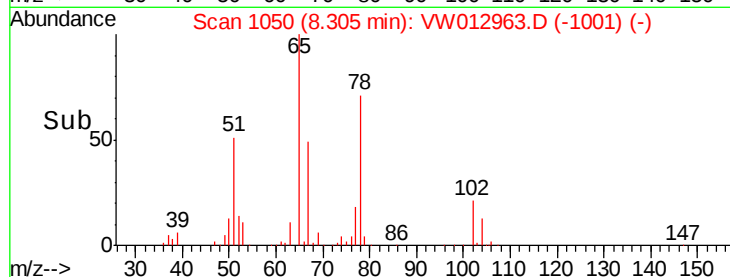
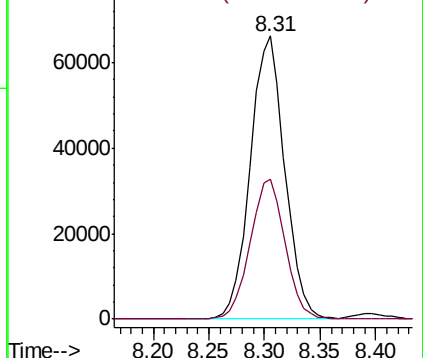
65 100

67 50.2 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

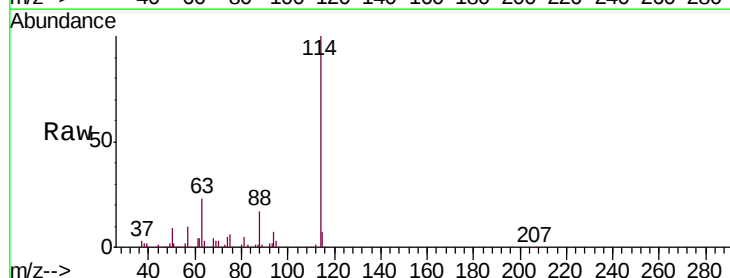
Tgt Ion: 114 Resp: 414554

Ion Ratio Lower Upper

114 100

63 22.9 0.0 43.4

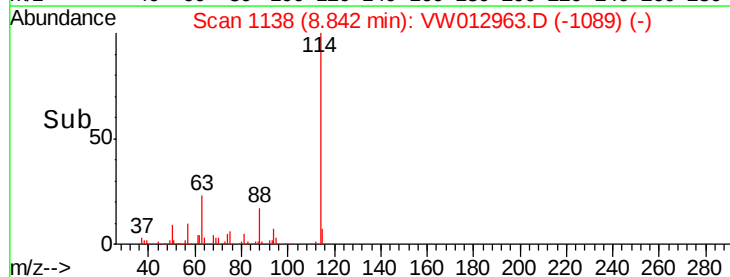
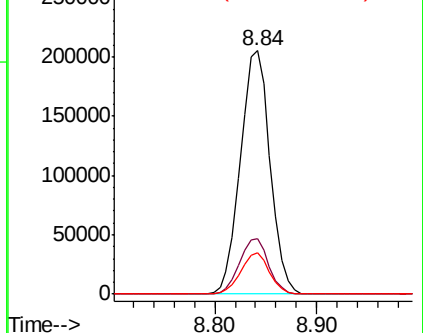
88 17.0 0.0 31.6

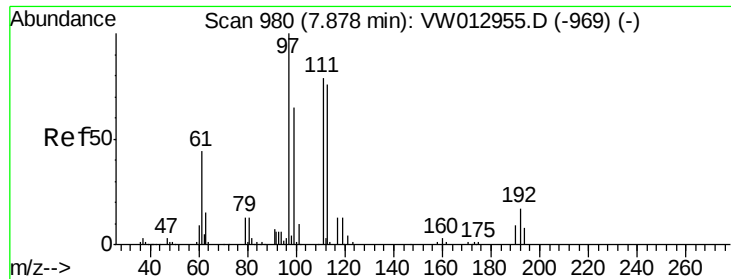


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

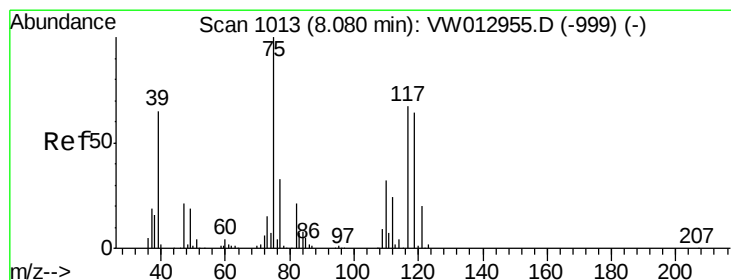
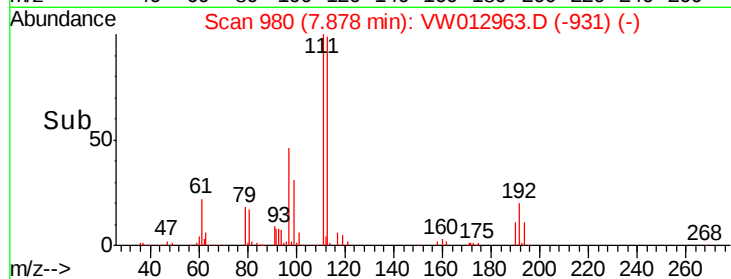
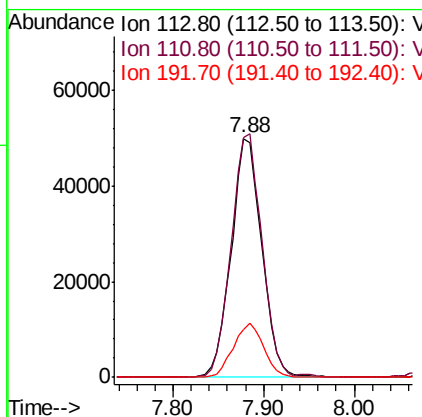
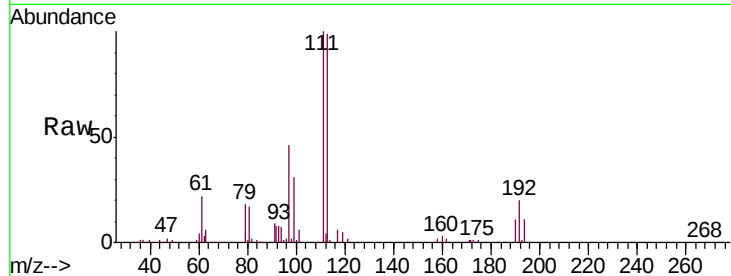




#35  
 Dibromofluoromethane  
 Concen: 52.075 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

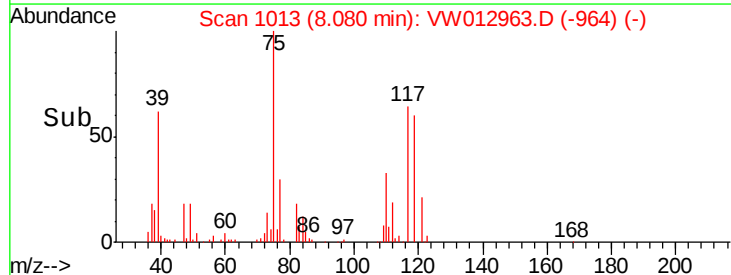
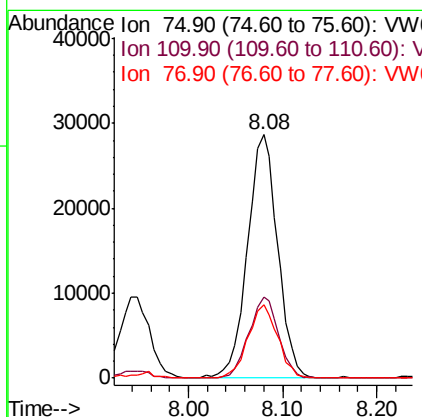
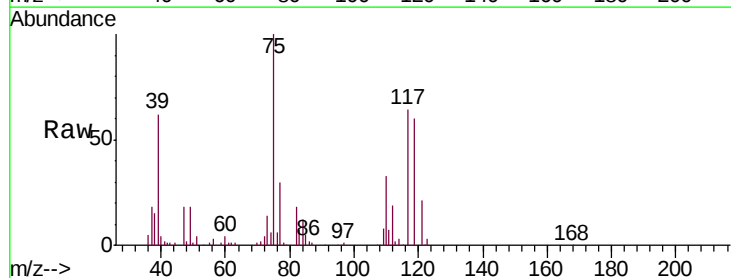
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

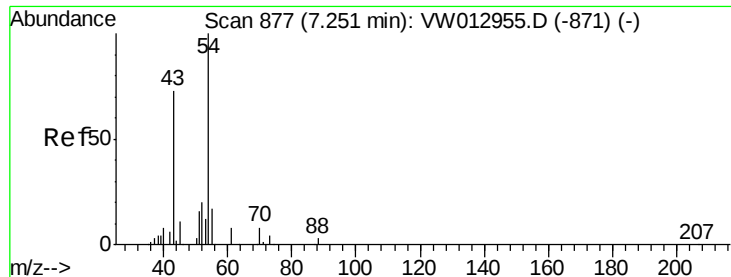
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.8 | 82.8  | 124.2 |
| 192     | 22.4  | 17.8  | 26.8  |



#36  
 1,1-Dichloropropene  
 Concen: 19.519 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 32.9  | 16.4  | 49.1  |
| 77      | 29.8  | 25.1  | 37.7  |

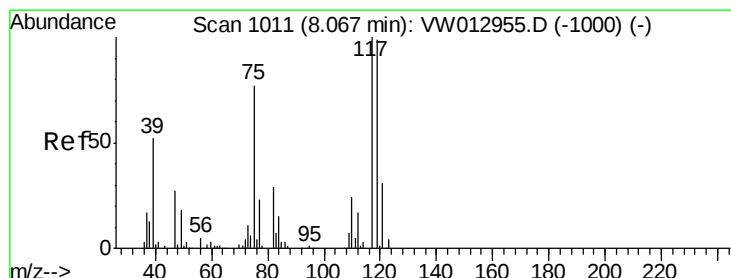
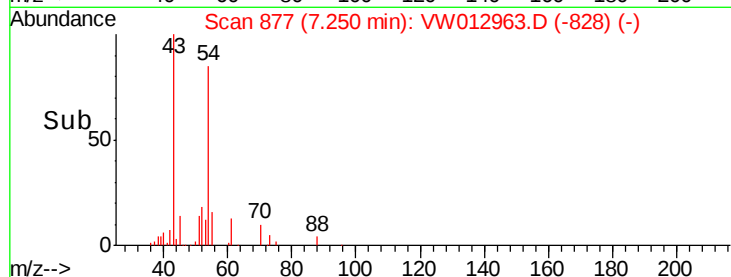
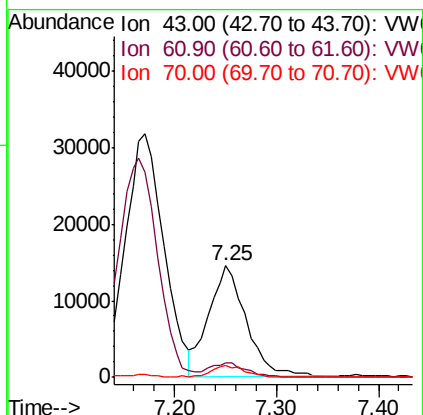
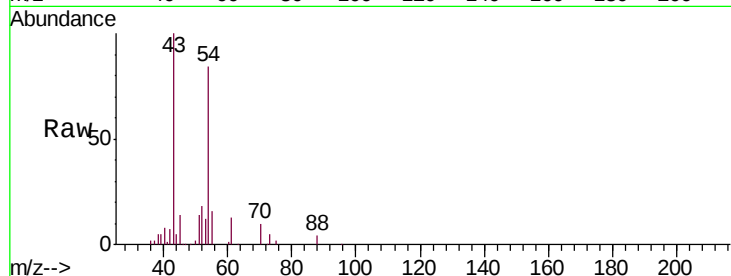




#37  
Ethyl Acetate  
Concen: 21.187 ug/l  
RT: 7.25 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

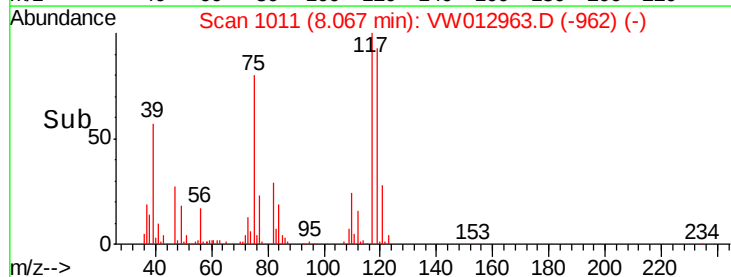
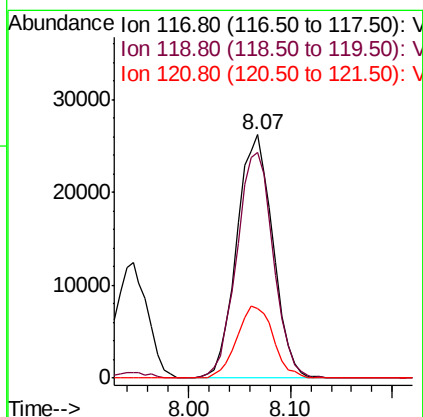
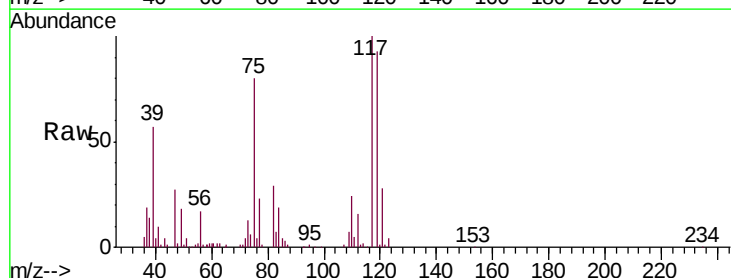
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

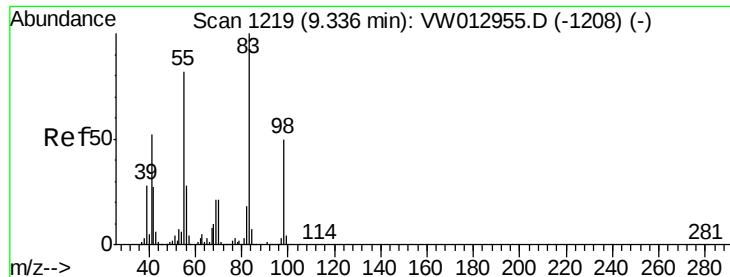
Tgt Ion: 43 Resp: 37254  
Ion Ratio Lower Upper  
43 100  
61 13.0 9.6 14.4  
70 9.6 7.6 11.4



#38  
Carbon Tetrachloride  
Concen: 18.988 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion: 117 Resp: 64459  
Ion Ratio Lower Upper  
117 100  
119 93.0 79.4 119.0  
121 28.4 24.6 36.8

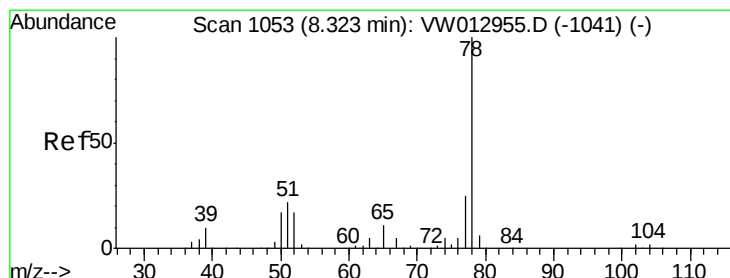
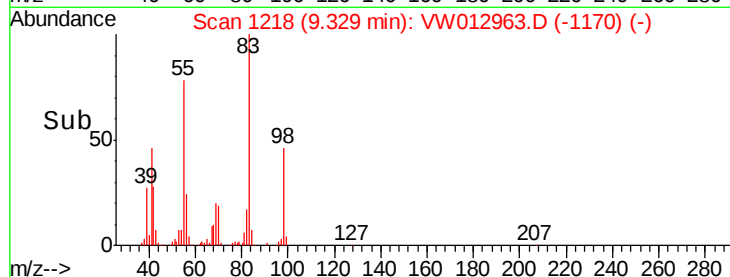
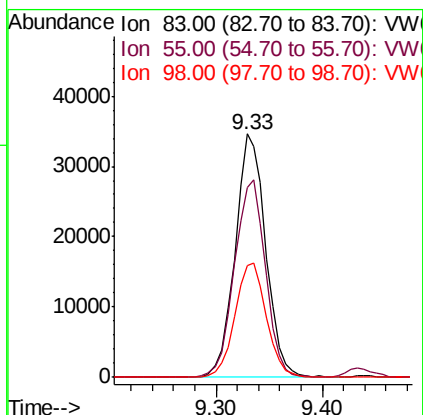
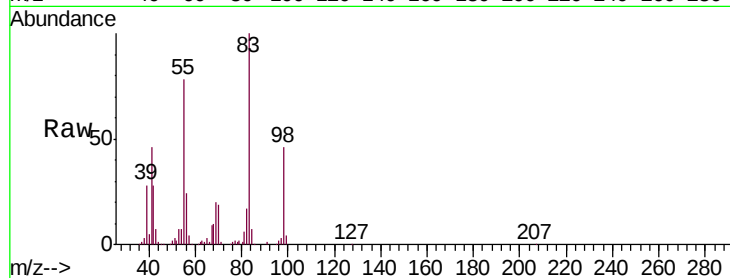




#39  
Methylcyclohexane  
Concen: 19.156 ug/l  
RT: 9.33 min Scan# 1218  
Delta R.T. -0.01 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

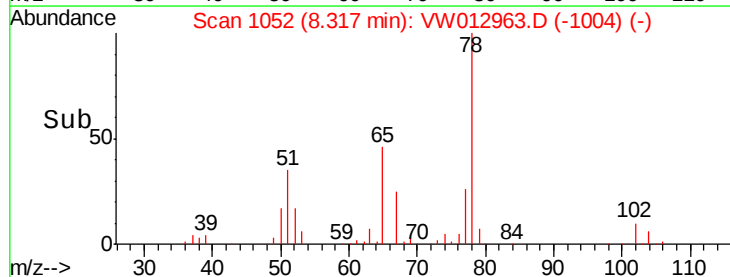
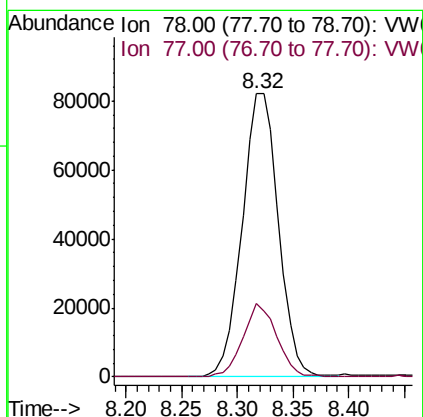
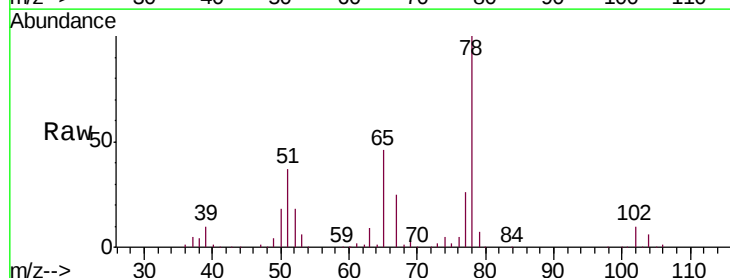
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

Tgt Ion: 83 Resp: 69536  
Ion Ratio Lower Upper  
83 100  
55 78.1 65.9 98.9  
98 46.1 39.6 59.4



#40  
Benzene  
Concen: 20.137 ug/l  
RT: 8.32 min Scan# 1052  
Delta R.T. -0.01 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion: 78 Resp: 186221  
Ion Ratio Lower Upper  
78 100  
77 25.9 19.6 29.4

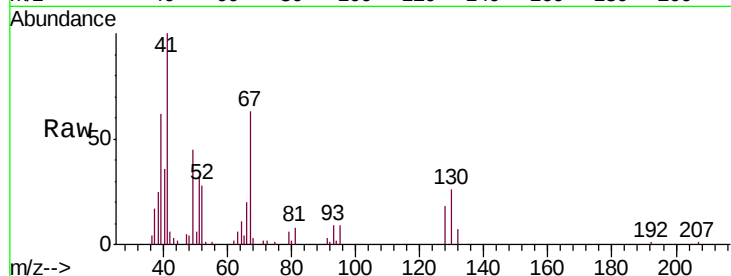




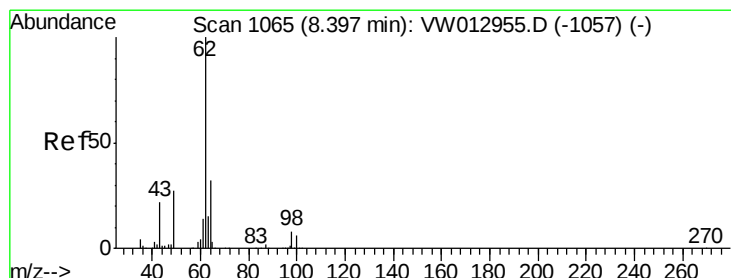
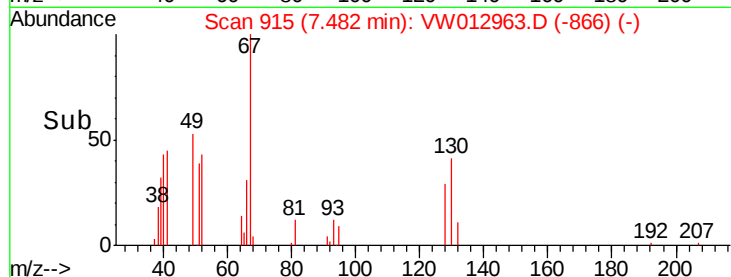
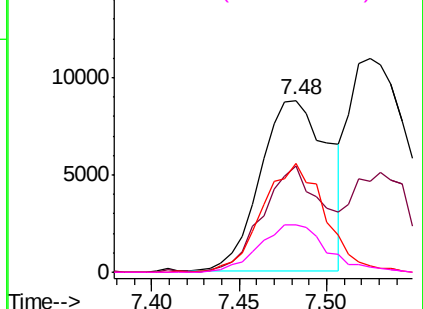
#41  
Methacrylonitrile  
Concen: 20.586 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 23837 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 55.8  | 48.2  | 72.4  |
| 67       | 59.4  | 47.5  | 71.3  |
| 52       | 27.8  | 21.0  | 31.4  |

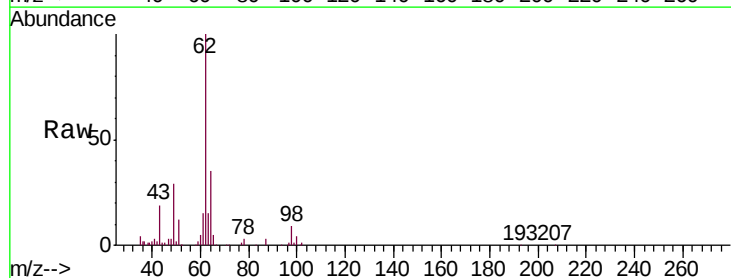


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

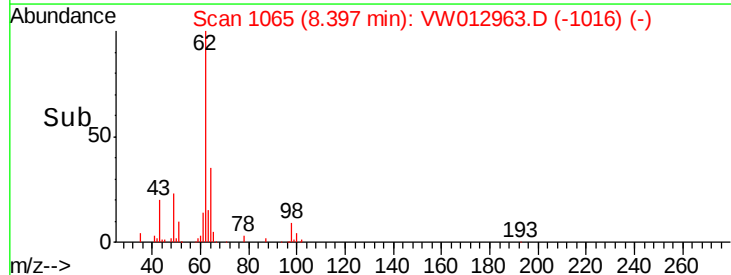
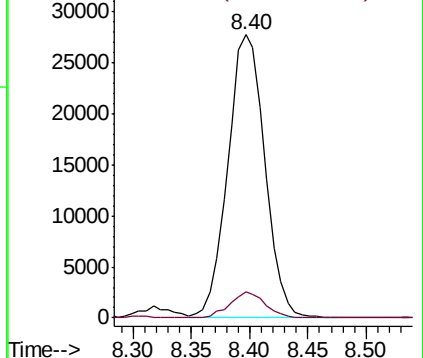


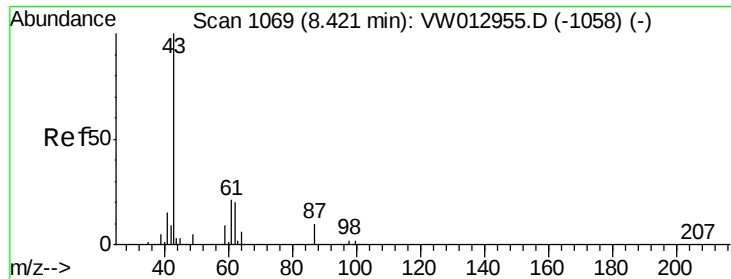
#42  
1,2-Dichloroethane  
Concen: 19.843 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 61514 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.7   | 0.0   | 16.8  |



Abundance Ion 61.90 (61.60 to 62.60): VW  
Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 20.845 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0914SBSD01

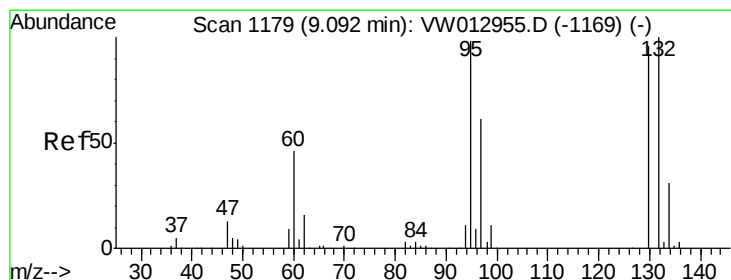
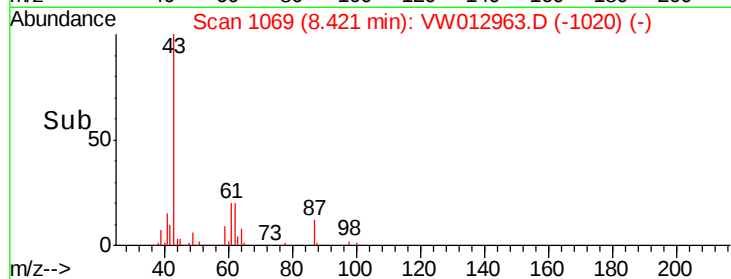
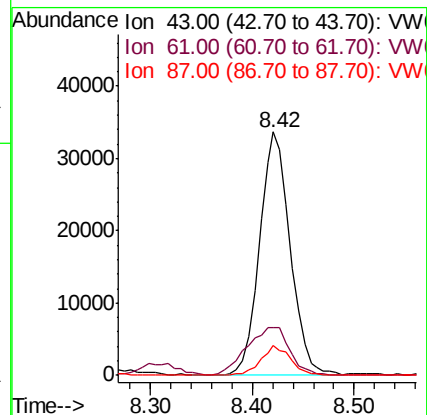
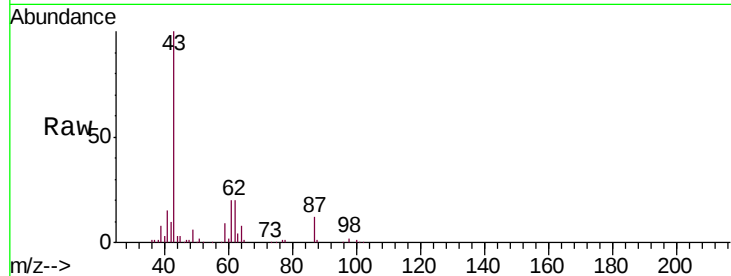
Tgt Ion: 43 Resp: 70373

Ion Ratio Lower Upper

43 100

61 27.7 22.7 34.1

87 11.7 9.4 14.2



#44

Trichloroethene

Concen: 19.084 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW012963.D

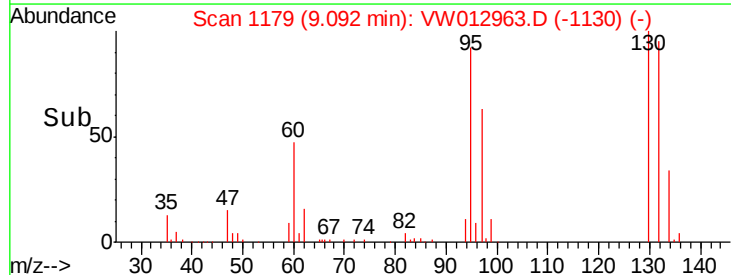
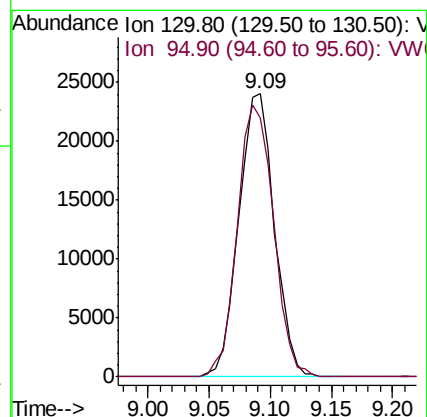
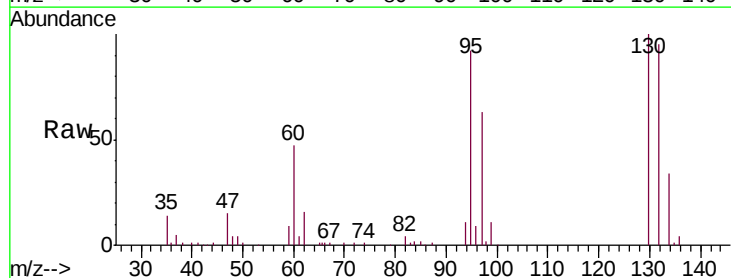
Acq: 13 Sep 2019 20:06

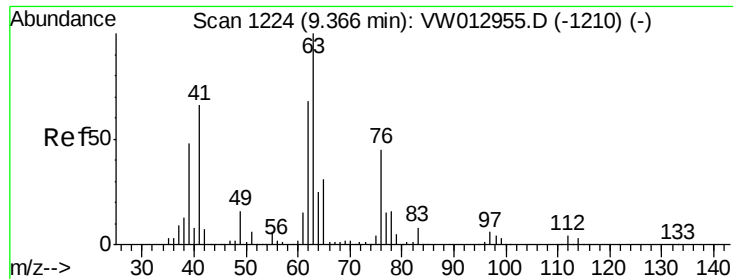
Tgt Ion: 130 Resp: 48342

Ion Ratio Lower Upper

130 100

95 91.5 0.0 204.4

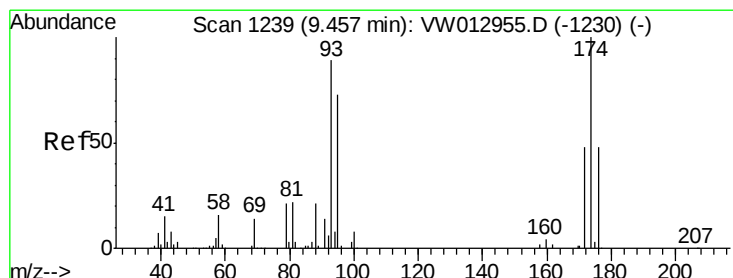
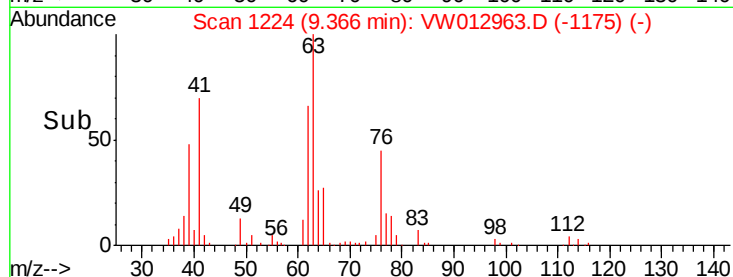
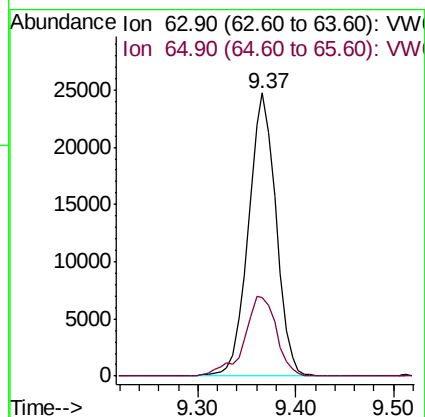
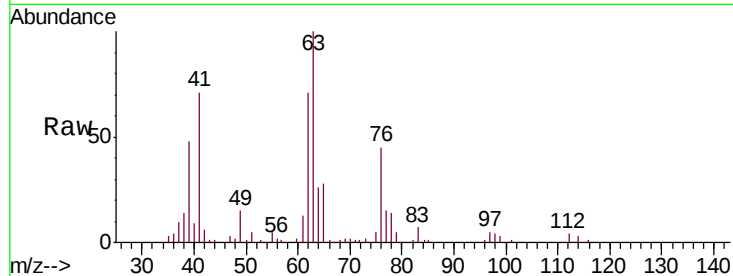




#45  
 1,2-Dichloropropane  
 Concen: 19.663 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

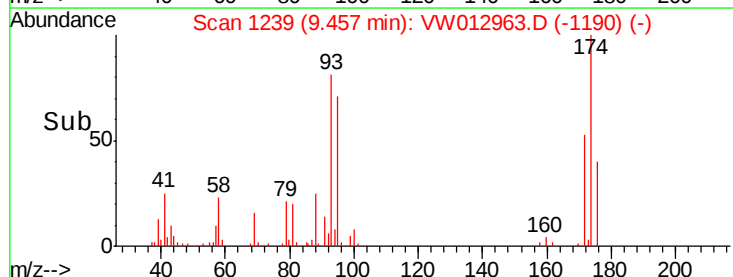
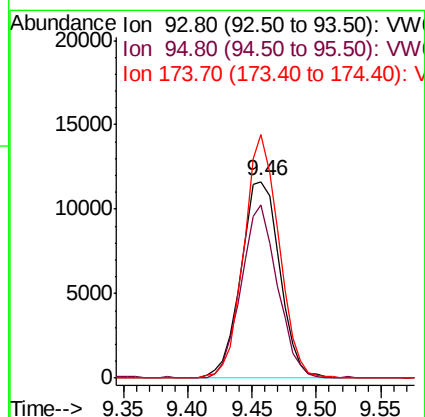
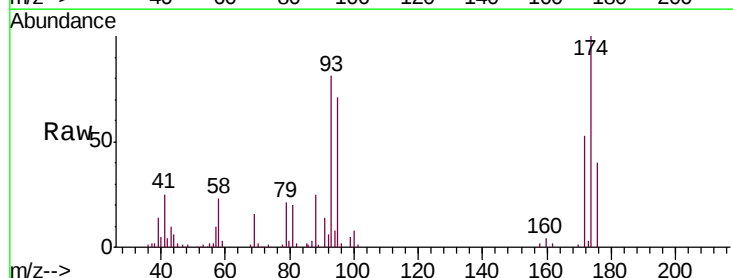
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

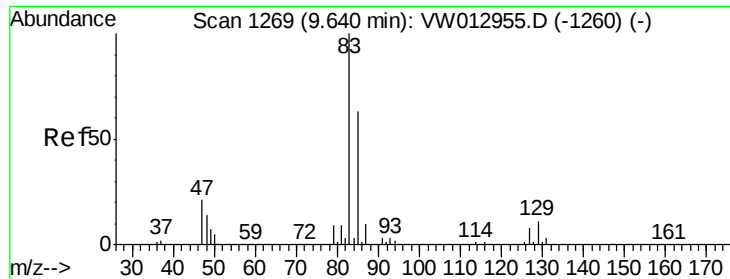
Tgt Ion: 63 Resp: 48311  
 Ion Ratio Lower Upper  
 63 100  
 65 27.9 24.6 37.0



#46  
 Dibromomethane  
 Concen: 20.658 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

Tgt Ion: 93 Resp: 24318  
 Ion Ratio Lower Upper  
 93 100  
 95 81.8 67.0 100.4  
 174 111.4 90.5 135.7





#47

Bromodichloromethane

Concen: 19.377 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0914SBSD01

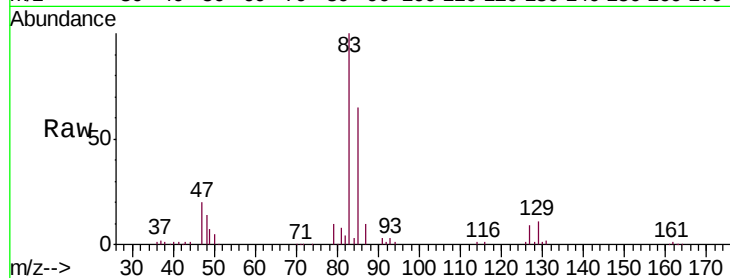
Tgt Ion: 83 Resp: 63981

Ion Ratio Lower Upper

83 100

85 65.3 50.6 75.8

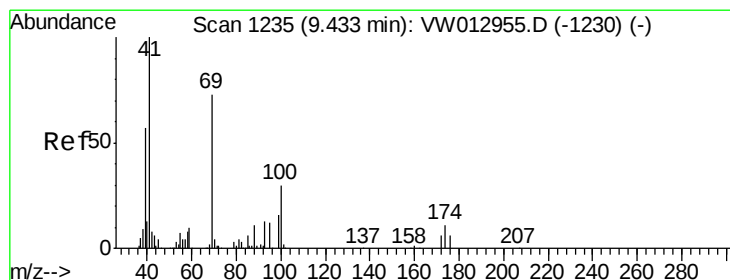
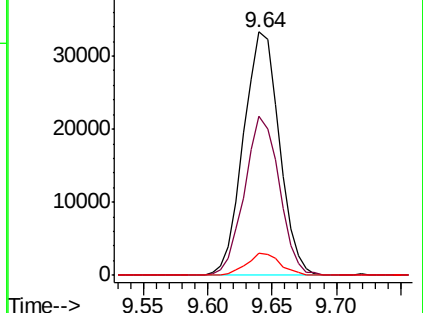
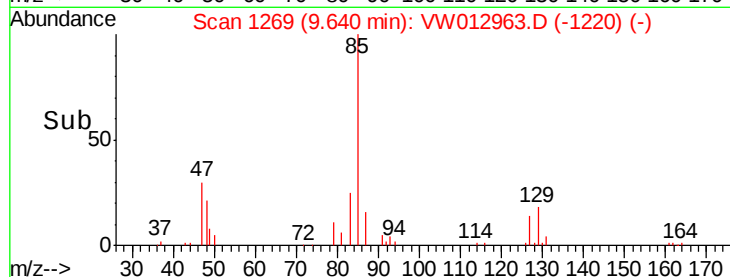
127 9.3 6.7 10.1



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): V



#48

Methyl methacrylate

Concen: 20.322 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

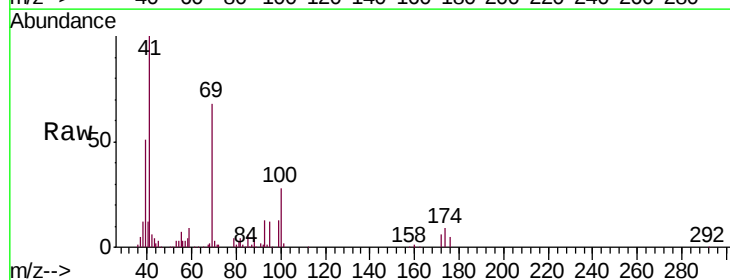
Tgt Ion: 41 Resp: 32199

Ion Ratio Lower Upper

41 100

69 74.6 62.8 94.2

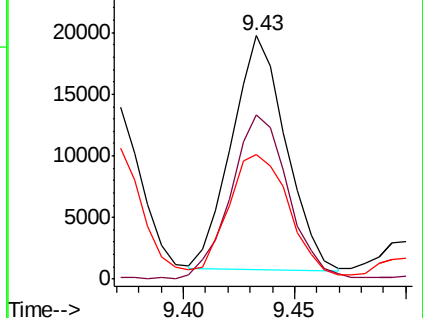
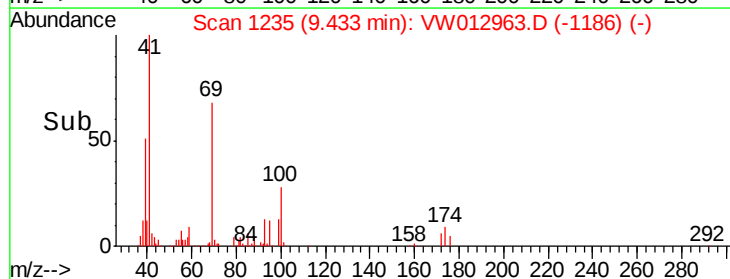
39 60.0 48.5 72.7

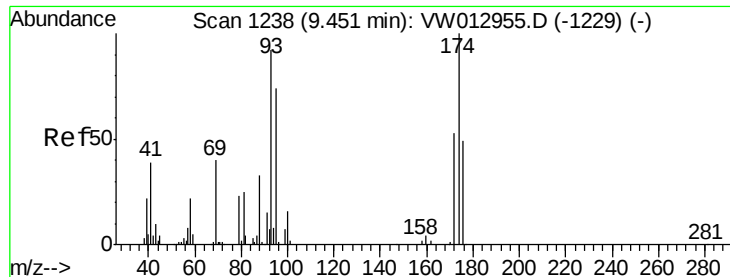


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

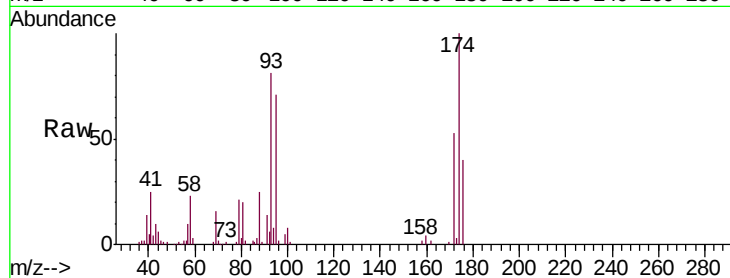




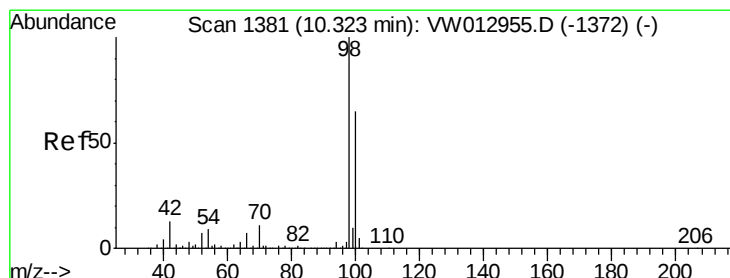
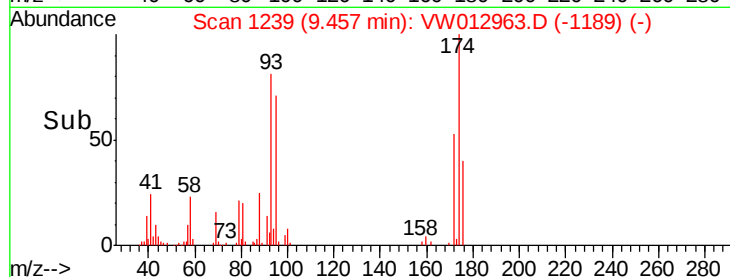
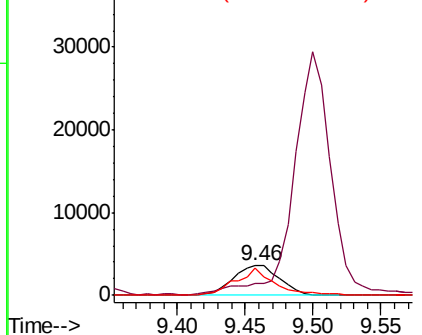
#49  
1,4-Dioxane  
Concen: 436.360 ug/l  
RT: 9.46 min Scan# 1239  
Delta R.T. 0.01 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

Tgt Ion: 88 Resp: 8607  
Ion Ratio Lower Upper  
88 100  
43 0.0 31.3 46.9#  
58 78.2 60.2 90.2

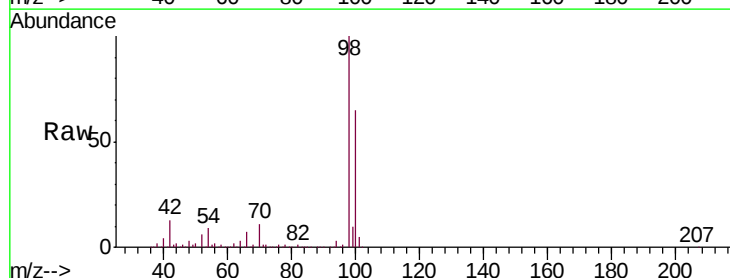


Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

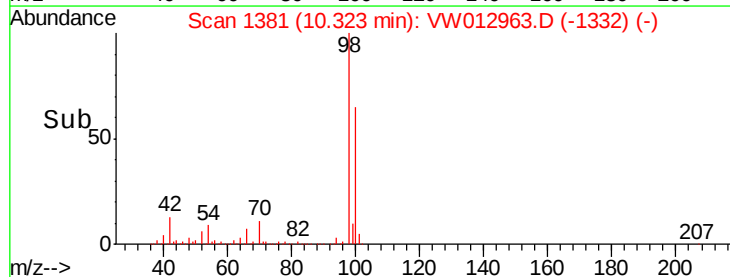
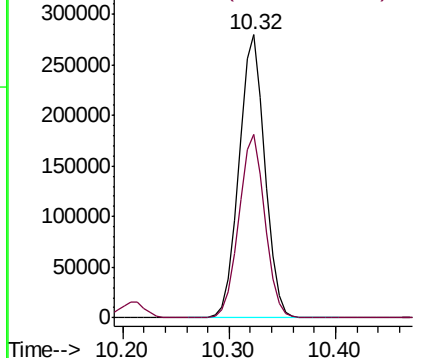


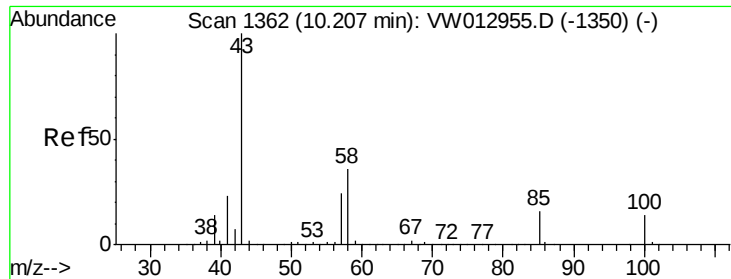
#50  
Toluene-d8  
Concen: 54.097 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion: 98 Resp: 476177  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW

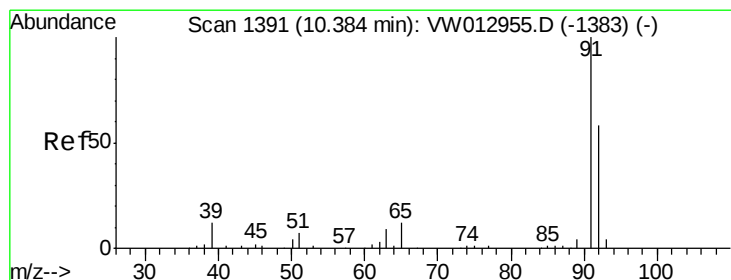
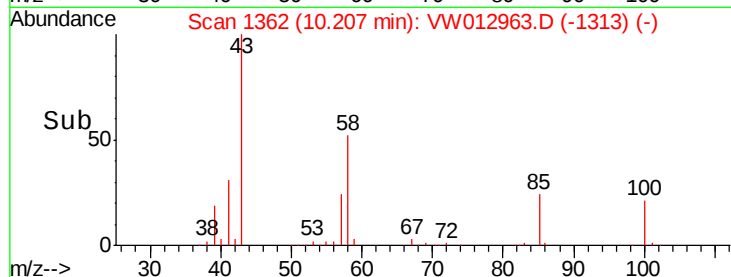
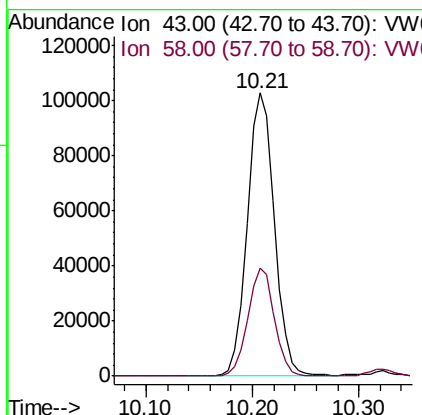
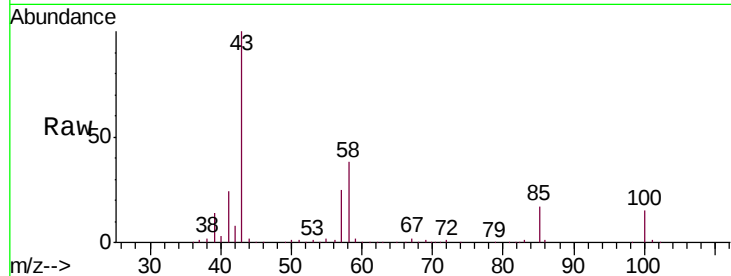




#51  
4-Methyl-2-Pentanone  
Concen: 105.225 ug/l  
RT: 10.21 min Scan# 1362  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

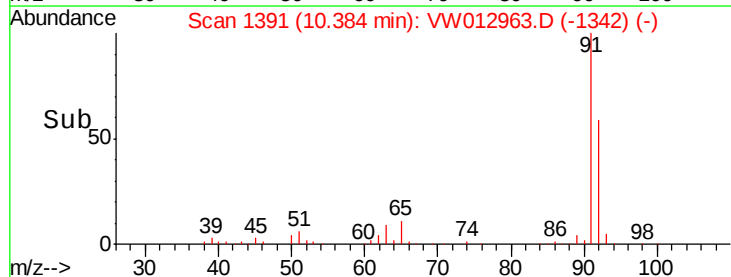
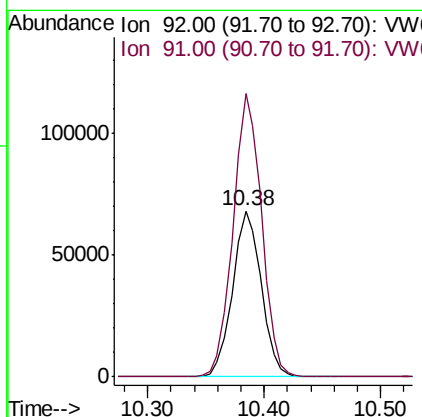
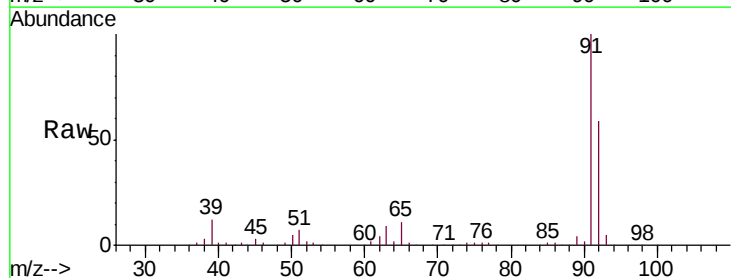
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

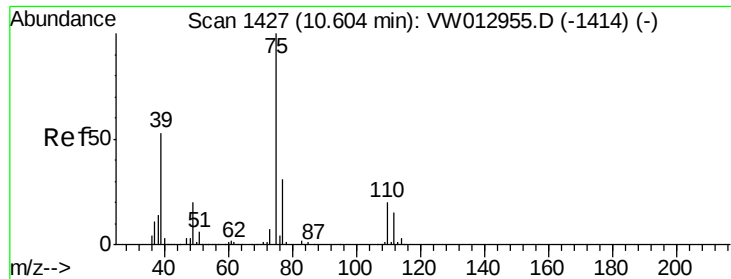
Tgt Ion: 43 Resp: 183403  
Ion Ratio Lower Upper  
43 100  
58 37.4 29.5 44.3



#52  
Toluene  
Concen: 19.877 ug/l  
RT: 10.38 min Scan# 1391  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion: 92 Resp: 116807  
Ion Ratio Lower Upper  
92 100  
91 170.1 137.5 206.3





#53

t-1,3-Dichloropropene

Concen: 19.394 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

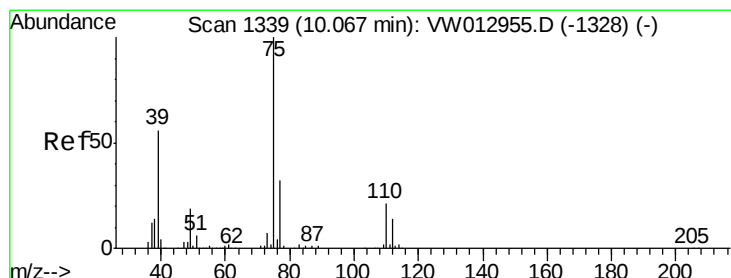
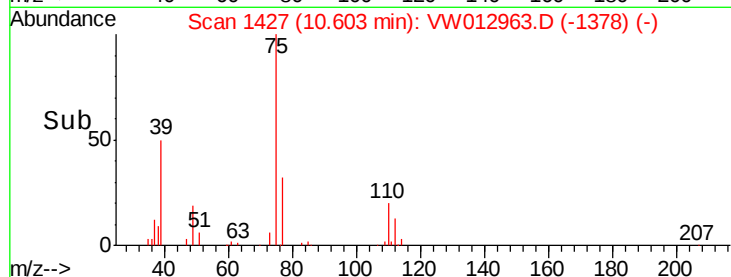
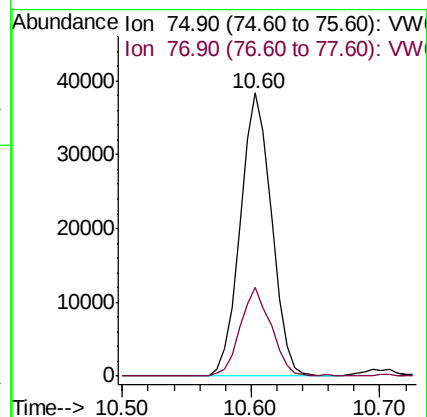
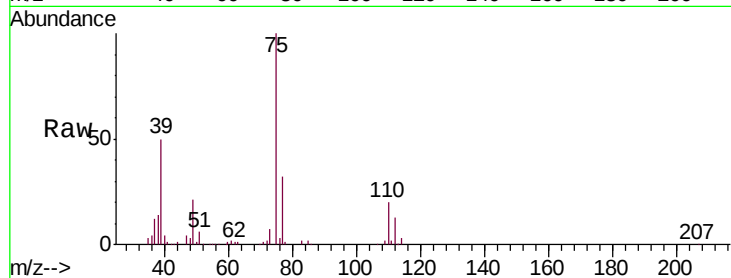
VW0914SBSD01

Tgt Ion: 75 Resp: 64403

Ion Ratio Lower Upper

75 100

77 31.5 24.6 37.0



#54

cis-1,3-Dichloropropene

Concen: 19.428 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

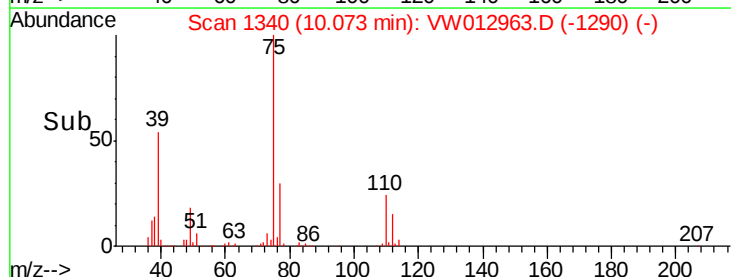
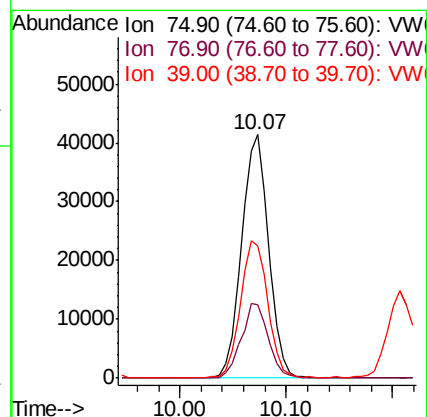
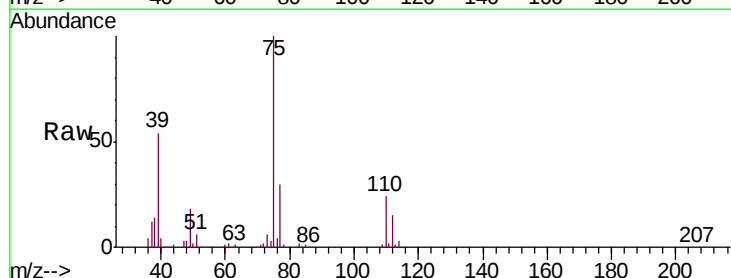
Tgt Ion: 75 Resp: 73820

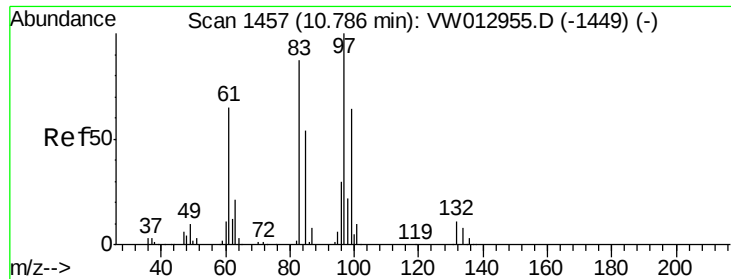
Ion Ratio Lower Upper

75 100

77 29.9 25.5 38.3

39 53.9 45.0 67.6

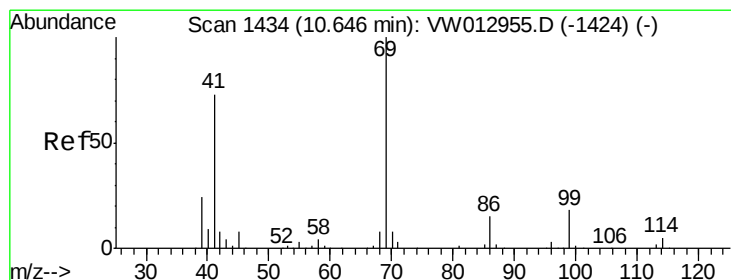
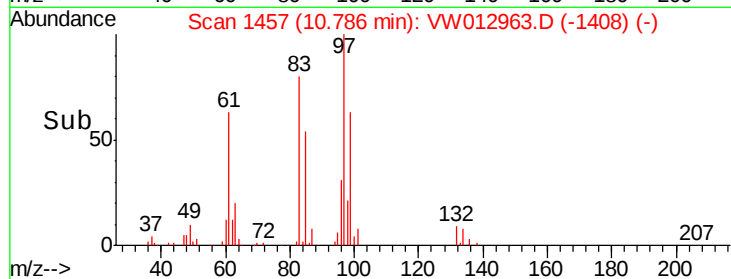
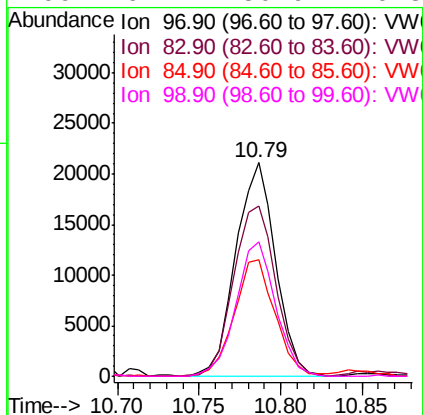
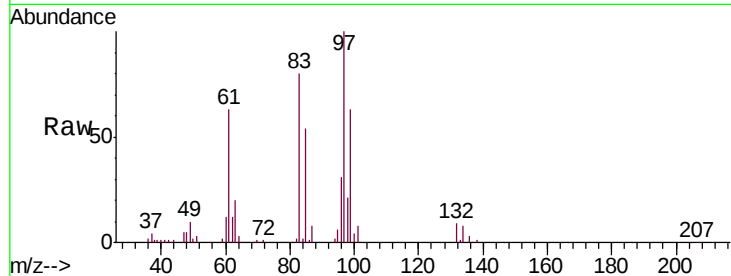




#55  
 1,1,2-Trichloroethane  
 Concen: 19.935 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

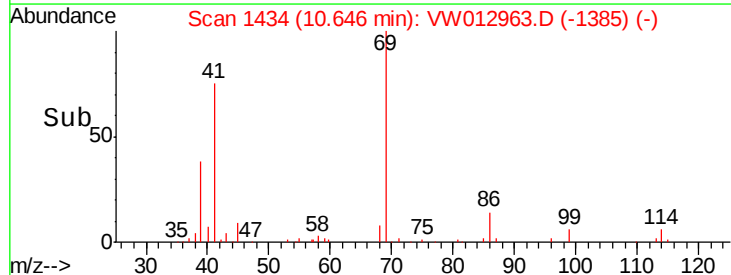
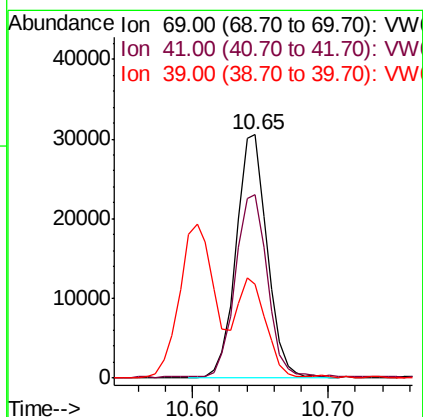
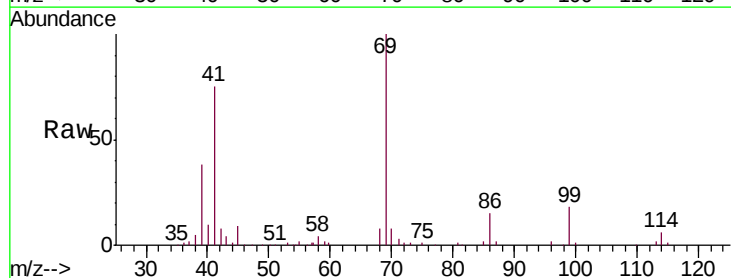
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

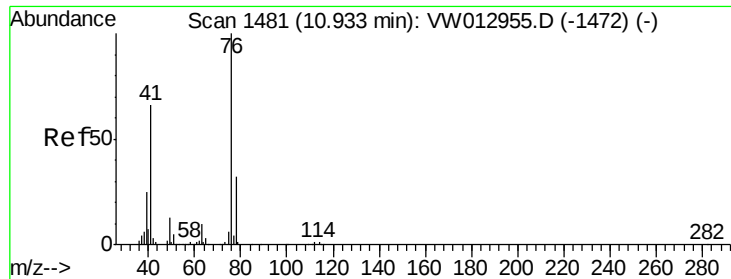
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 35748 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 79.2  | 69.4  | 104.0 |
| 85       | 54.3  | 43.3  | 64.9  |
| 99       | 62.7  | 50.9  | 76.3  |



#56  
 Ethyl methacrylate  
 Concen: 20.193 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 48742 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 77.4  | 60.8  | 91.2  |
| 39       | 35.6  | 29.4  | 44.0  |

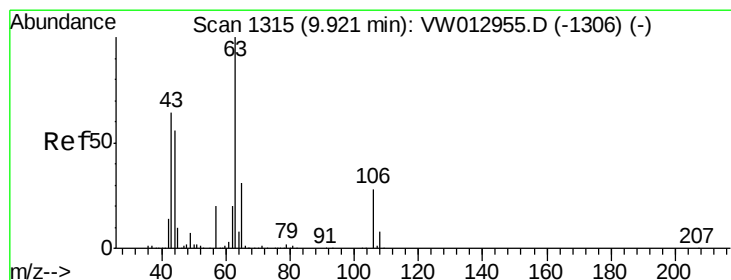
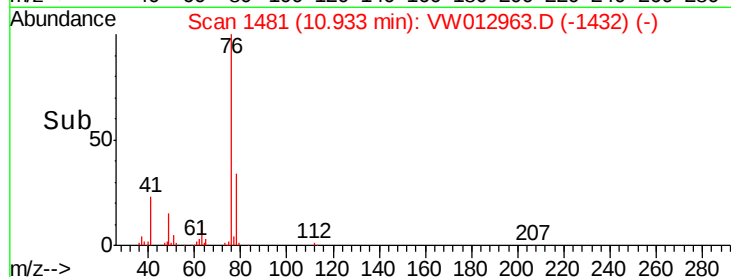
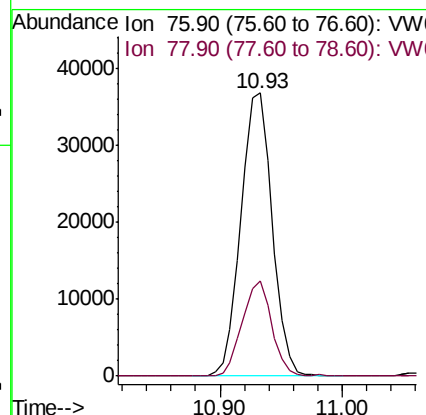
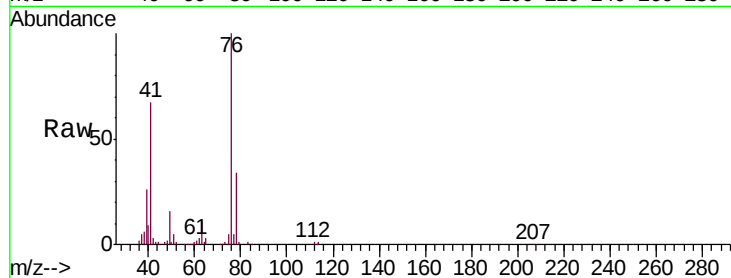




#57  
 1,3-Dichloropropane  
 Concen: 20.492 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

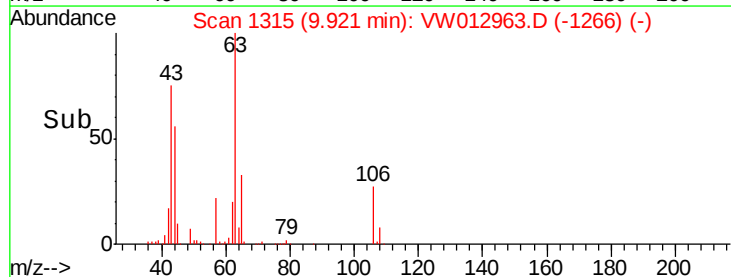
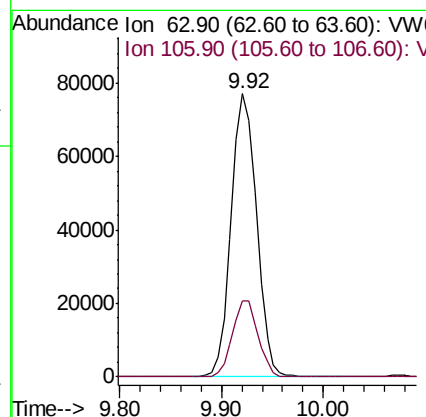
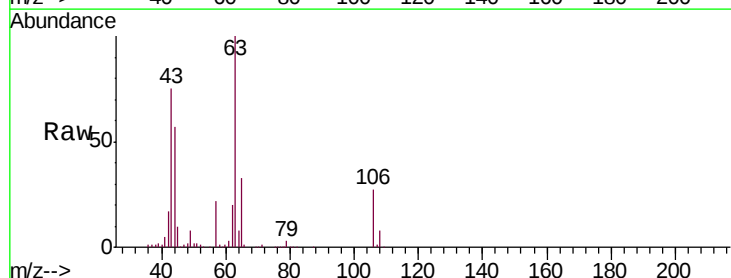
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

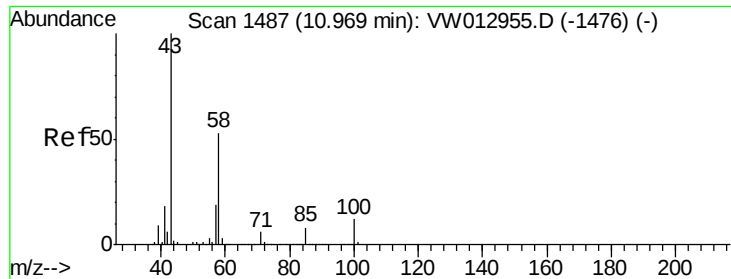
Tgt Ion: 76 Resp: 65187  
 Ion Ratio Lower Upper  
 76 100  
 78 32.1 25.6 38.4



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 102.554 ug/l  
 RT: 9.92 min Scan# 1315  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

Tgt Ion: 63 Resp: 132789  
 Ion Ratio Lower Upper  
 63 100  
 106 27.2 22.2 33.2

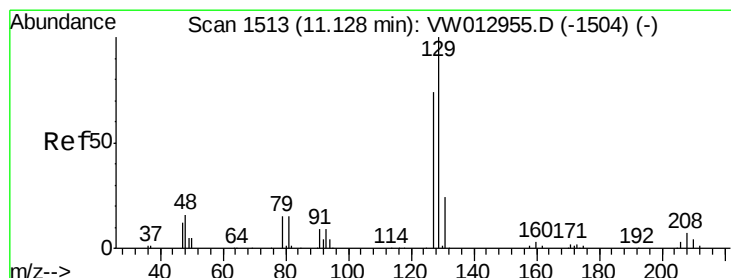
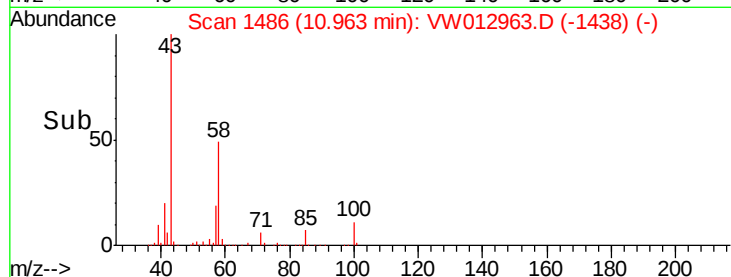
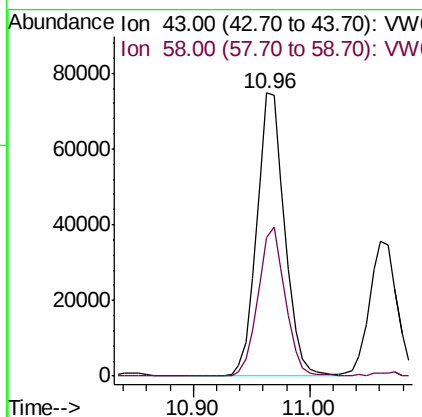
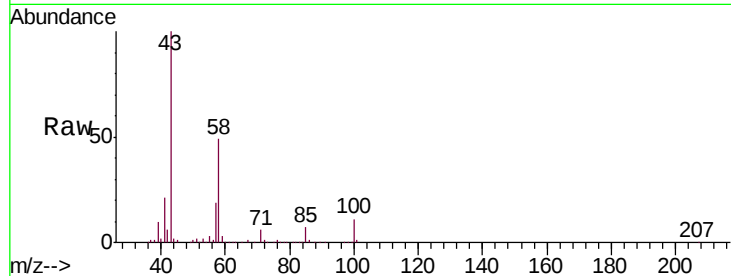




#59  
2-Hexanone  
Concen: 102.491 ug/l  
RT: 10.96 min Scan# 1486  
Delta R.T. -0.01 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

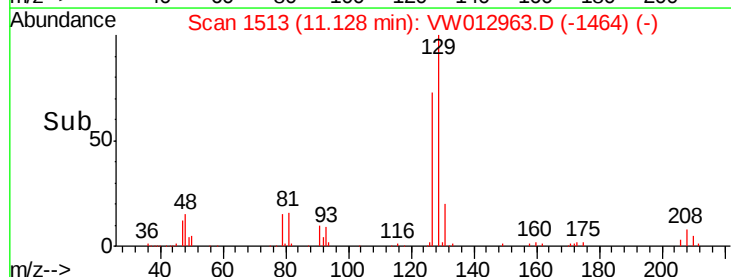
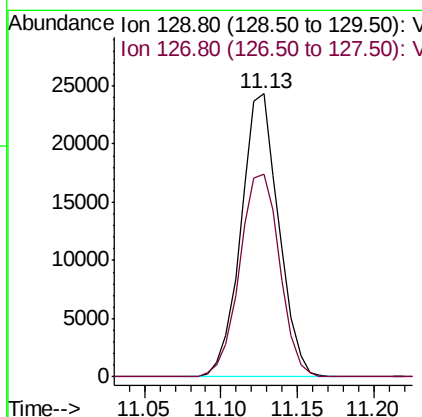
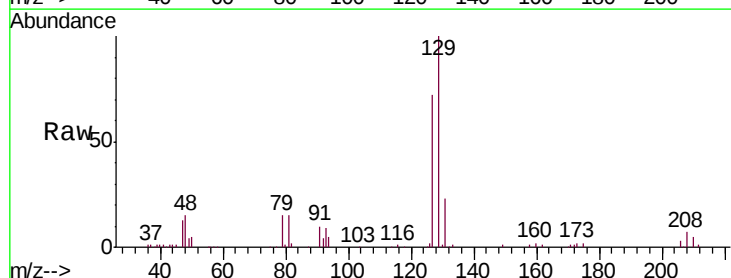
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

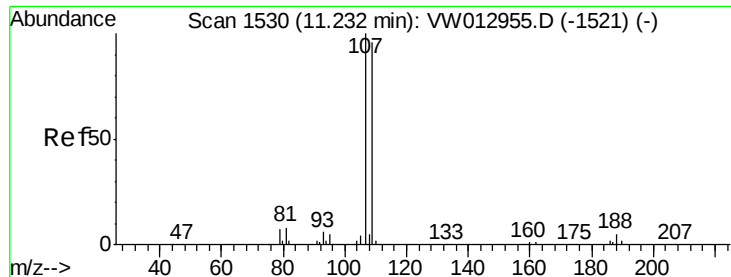
Tgt Ion: 43 Resp: 124387  
Ion Ratio Lower Upper  
43 100  
58 51.4 25.8 77.3



#60  
Dibromochloromethane  
Concen: 19.173 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion: 129 Resp: 41568  
Ion Ratio Lower Upper  
129 100  
127 76.1 37.4 112.2

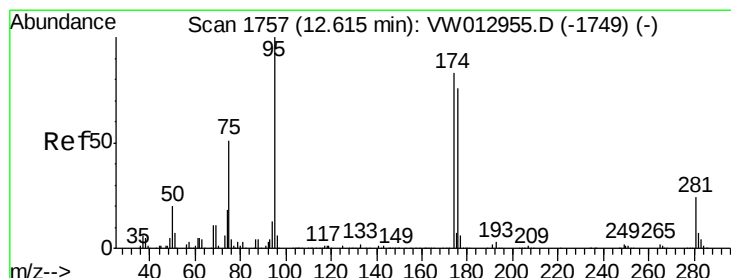
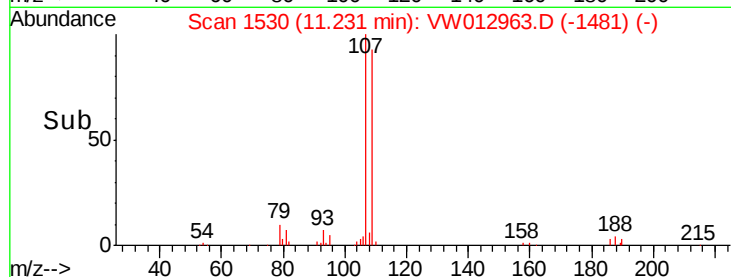
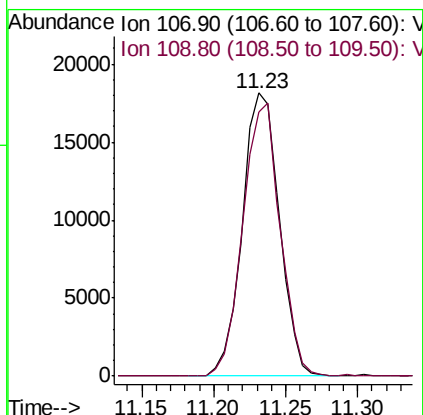
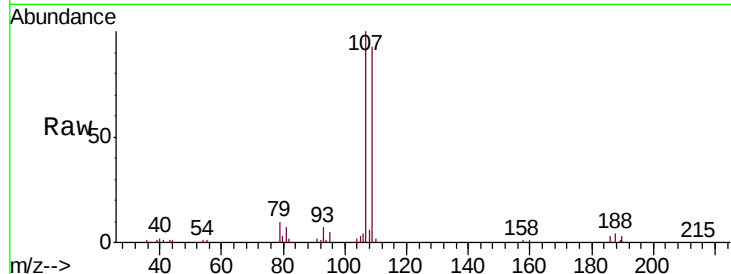




#61  
 1,2-Dibromoethane  
 Concen: 19.692 ug/l  
 RT: 11.23 min Scan# 1530  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

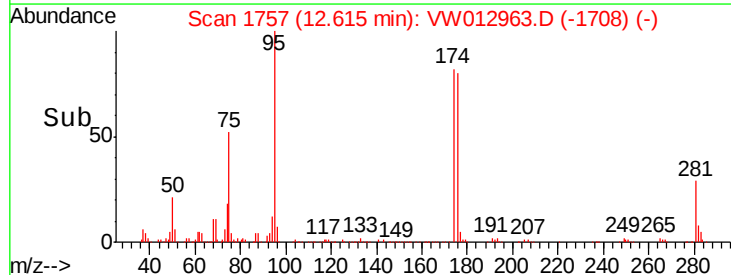
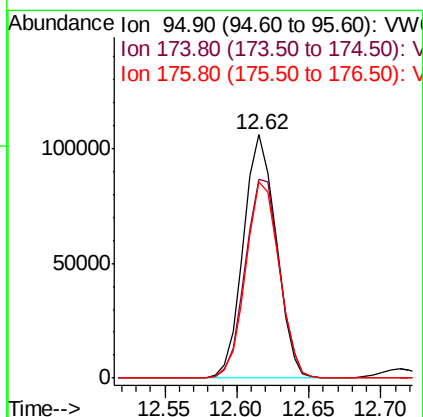
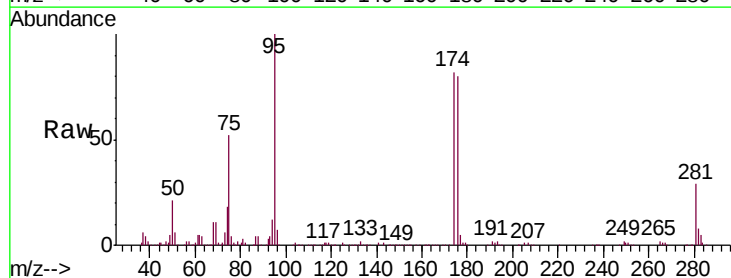
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

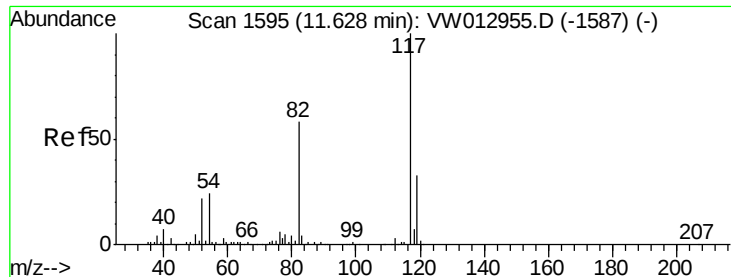
Tgt Ion: 107 Resp: 32213  
 Ion Ratio Lower Upper  
 107 100  
 109 97.0 75.0 112.6



#62  
 4-Bromofluorobenzene  
 Concen: 52.982 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

Tgt Ion: 95 Resp: 167693  
 Ion Ratio Lower Upper  
 95 100  
 174 85.0 0.0 170.4  
 176 82.0 0.0 164.6

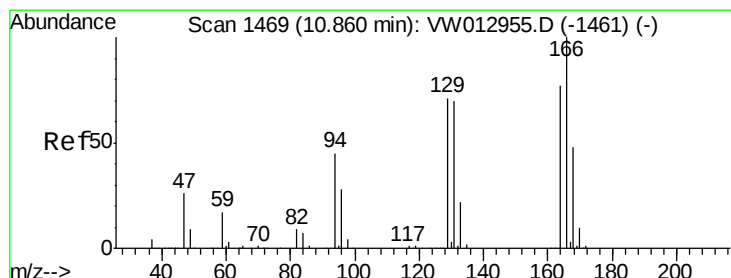
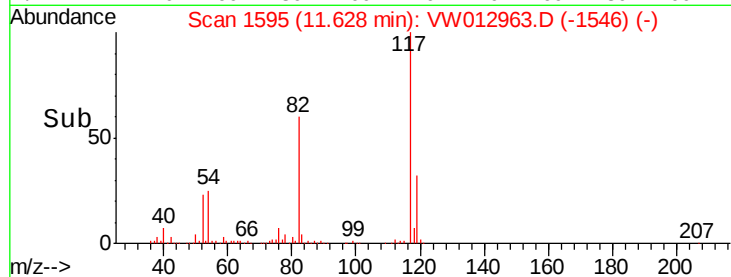
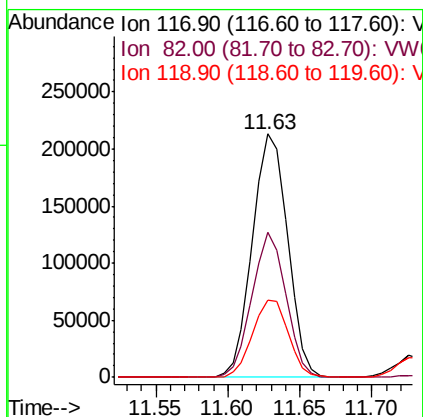
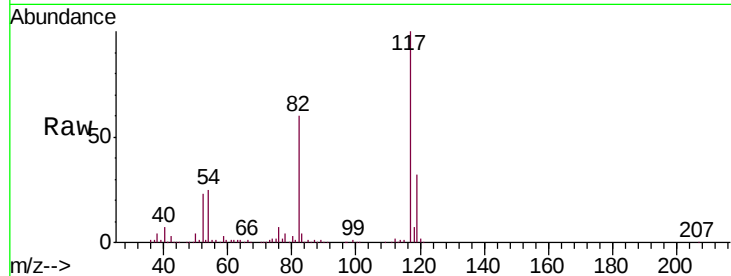




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

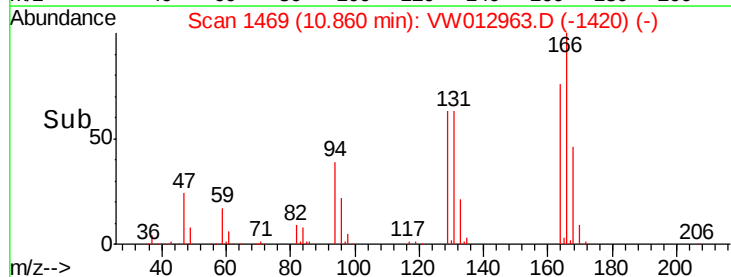
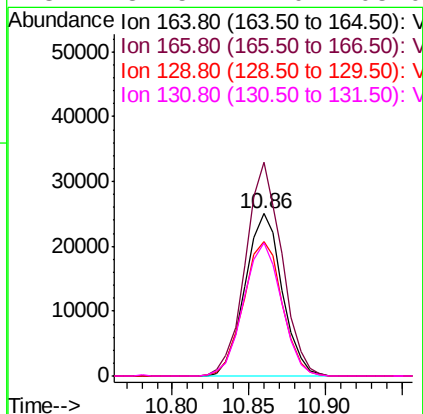
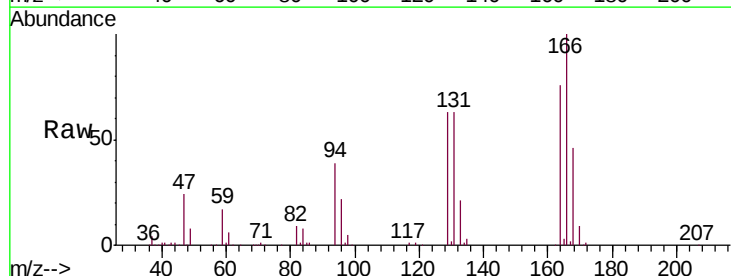
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

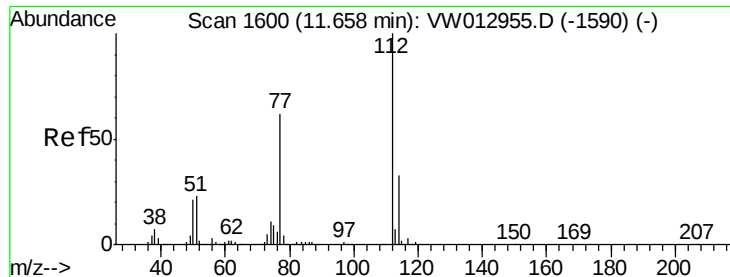
Tgt Ion:117 Resp: 361911  
Ion Ratio Lower Upper  
117 100  
82 59.6 46.3 69.5  
119 31.9 26.2 39.4



#64  
Tetrachloroethene  
Concen: 19.601 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion:164 Resp: 42201  
Ion Ratio Lower Upper  
164 100  
166 131.8 103.3 154.9  
129 82.6 73.8 110.8  
131 82.5 72.0 108.0





#65

Chlorobenzene

Concen: 19.459 ug/l

RT: 11.65 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

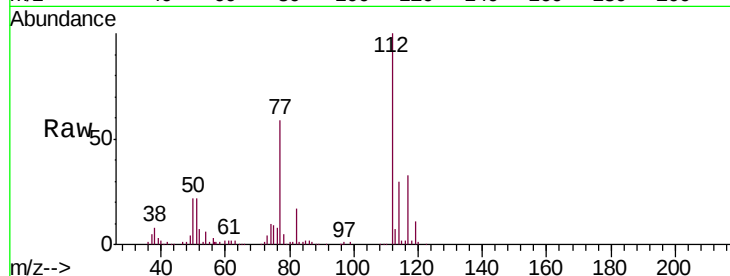
VW0914SBSD01

Tgt Ion:112 Resp: 125442

Ion Ratio Lower Upper

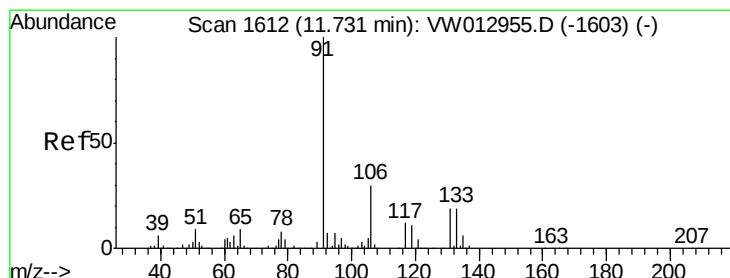
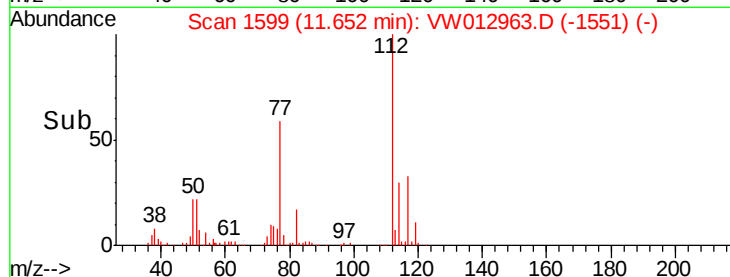
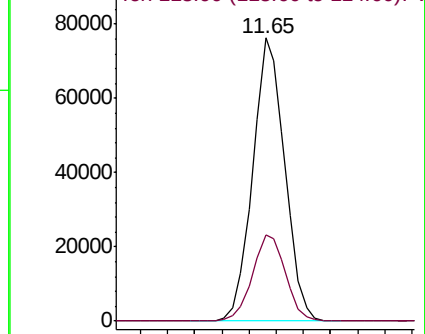
112 100

114 30.3 26.4 39.6



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: 18.848 ug/l

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

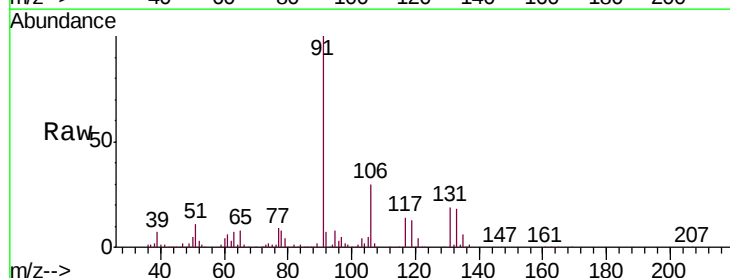
Tgt Ion:131 Resp: 46563

Ion Ratio Lower Upper

131 100

133 95.2 47.9 143.8

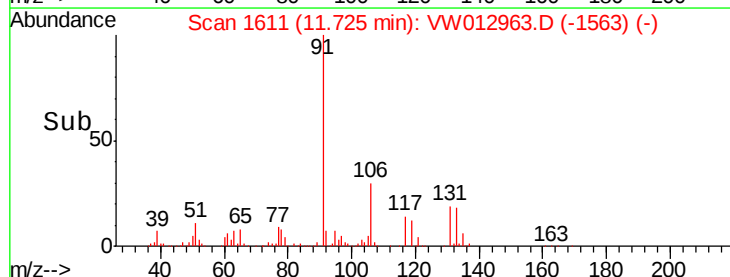
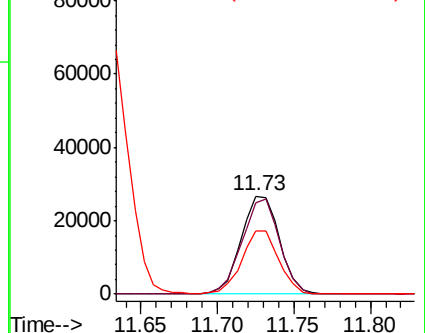
119 62.8 30.9 92.7

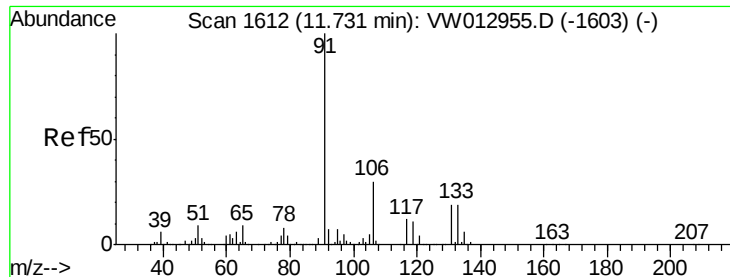


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

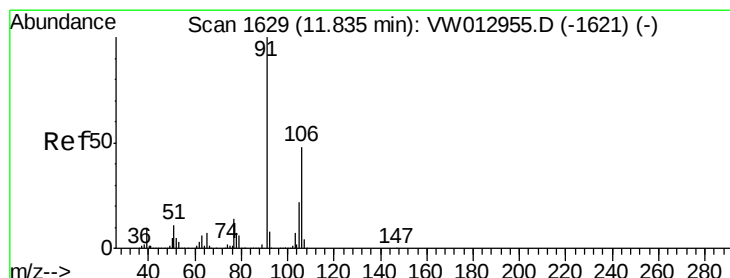
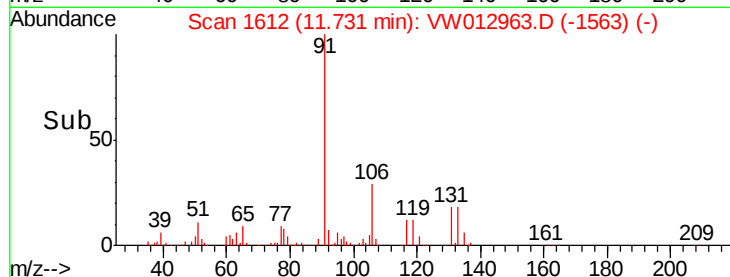
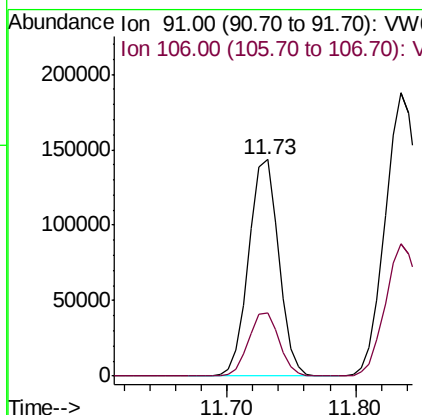
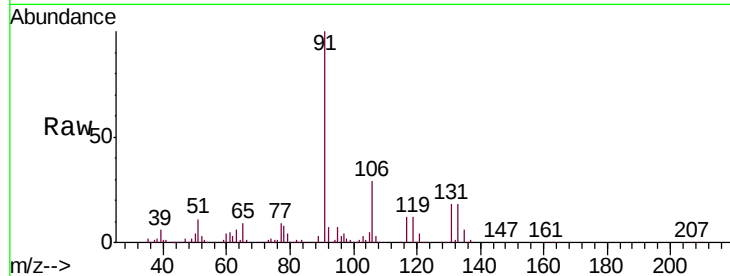




#67  
Ethyl Benzene  
Concen: 19.339 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

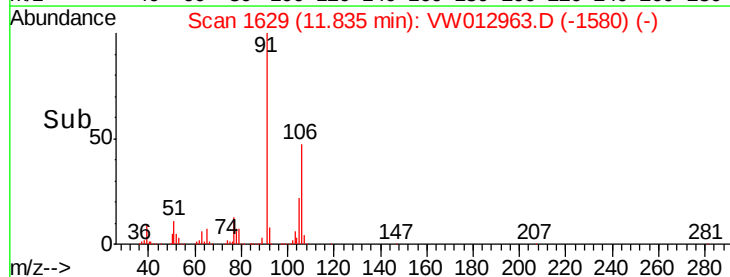
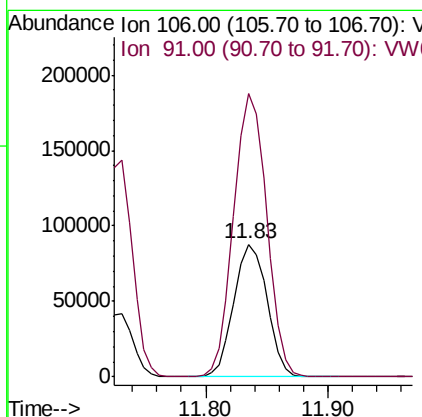
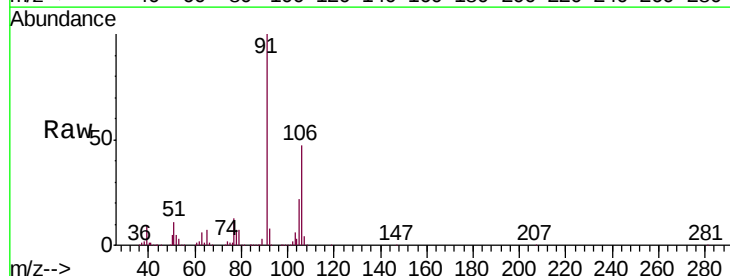
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

Tgt Ion: 91 Resp: 230253  
Ion Ratio Lower Upper  
91 100  
106 29.3 24.3 36.5



#68  
m/p-Xylenes  
Concen: 38.293 ug/l  
RT: 11.83 min Scan# 1629  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion: 106 Resp: 166551  
Ion Ratio Lower Upper  
106 100  
91 211.5 165.8 248.8

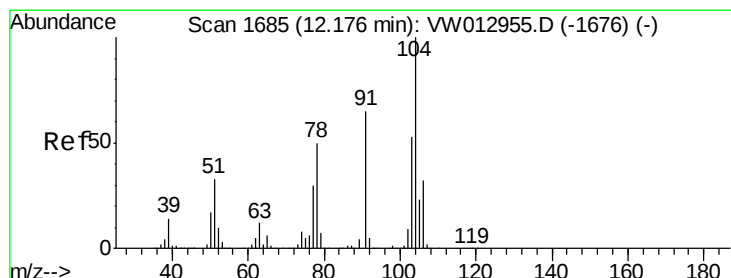
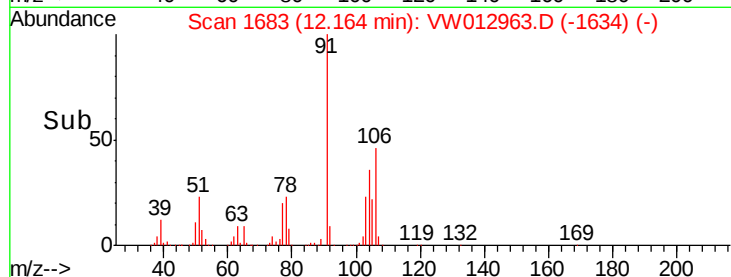
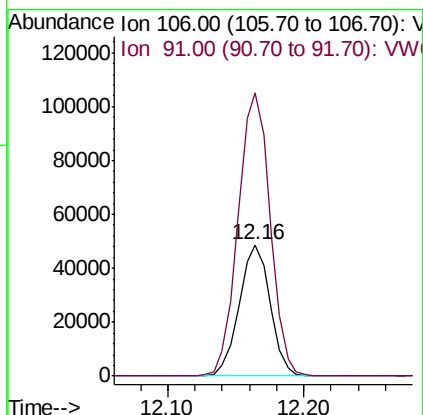
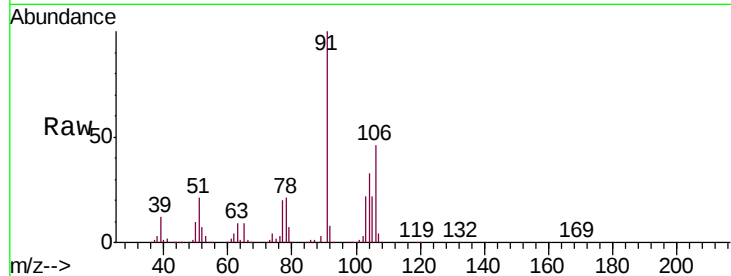




#69  
o-Xylene  
Concen: 18.999 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

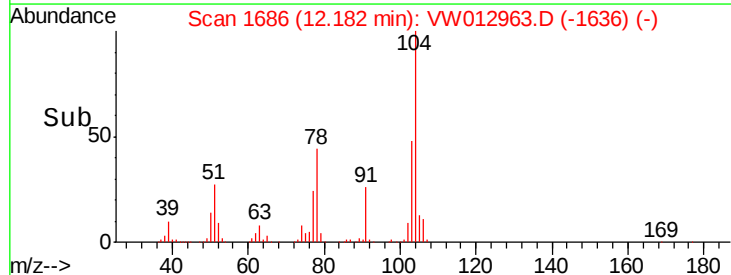
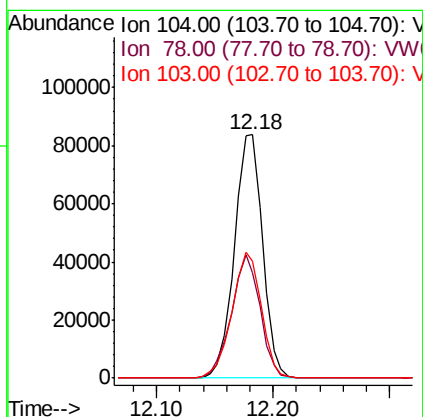
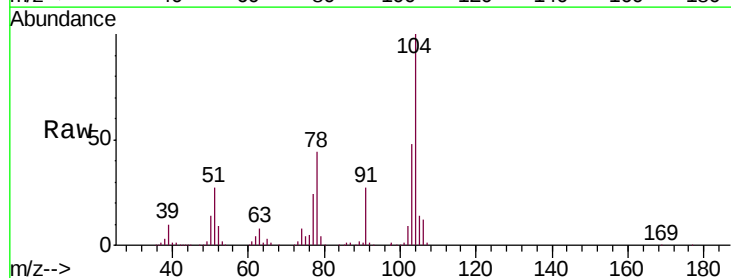
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

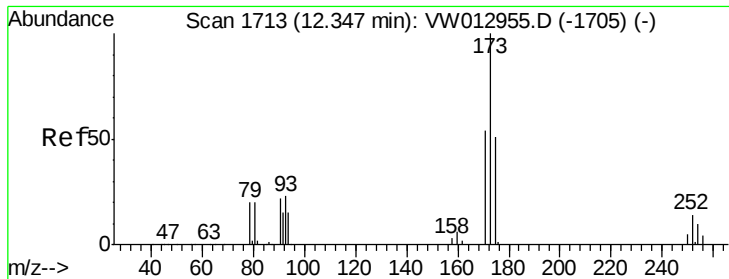
Tgt Ion:106 Resp: 77471  
Ion Ratio Lower Upper  
106 100  
91 223.3 109.7 329.0



#70  
Styrene  
Concen: 19.557 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.01 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion:104 Resp: 141862  
Ion Ratio Lower Upper  
104 100  
78 51.5 42.1 63.1  
103 53.6 44.2 66.4





#71

Bromoform

Concen: 19.714 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0914SBSD01

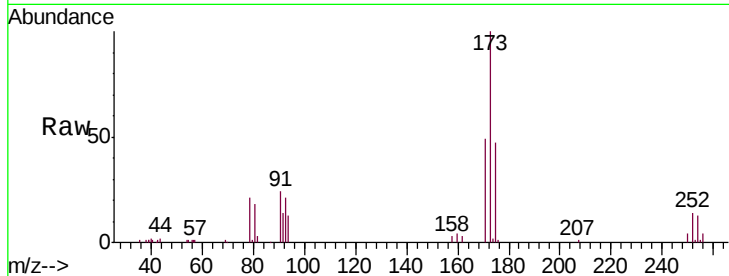
Tgt Ion:173 Resp: 25581

Ion Ratio Lower Upper

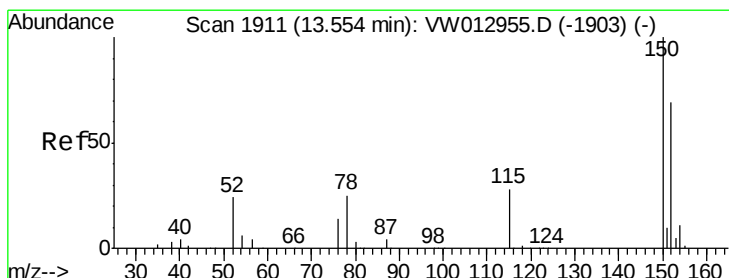
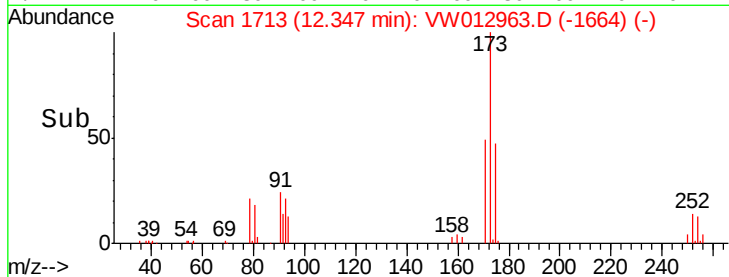
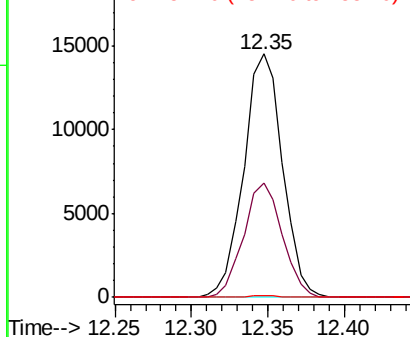
173 100

175 46.9 24.2 72.6

254 0.3 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

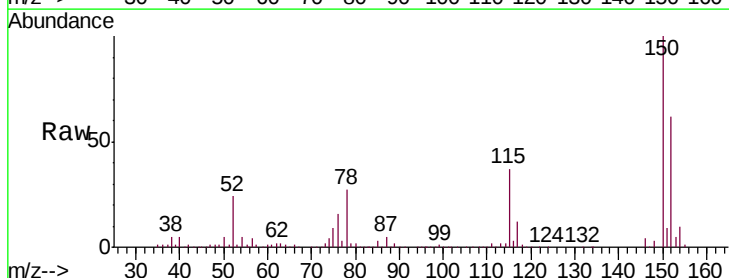
Tgt Ion:152 Resp: 183776

Ion Ratio Lower Upper

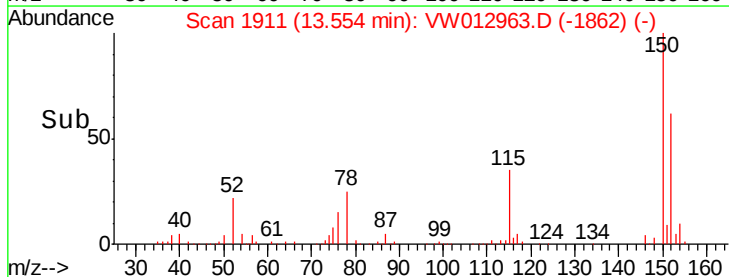
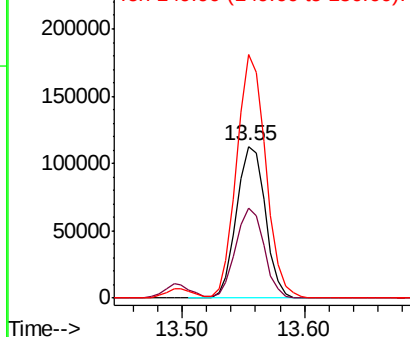
152 100

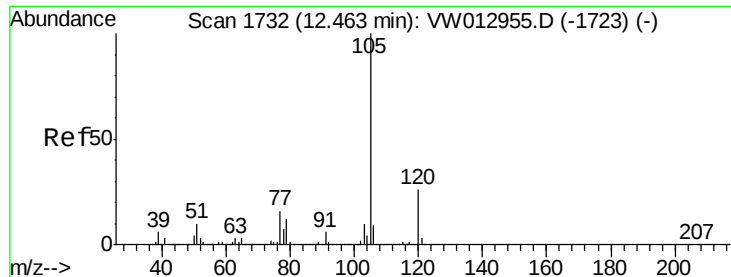
115 57.9 28.8 86.4

150 162.5 0.0 340.2



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: 18.520 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

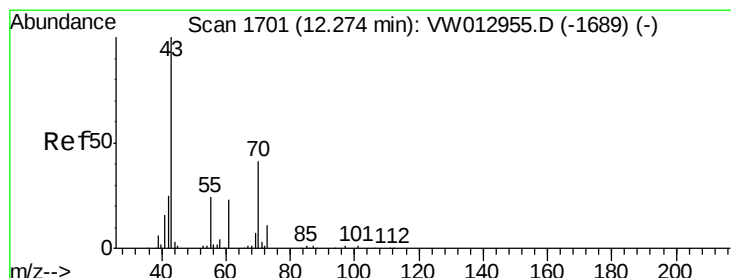
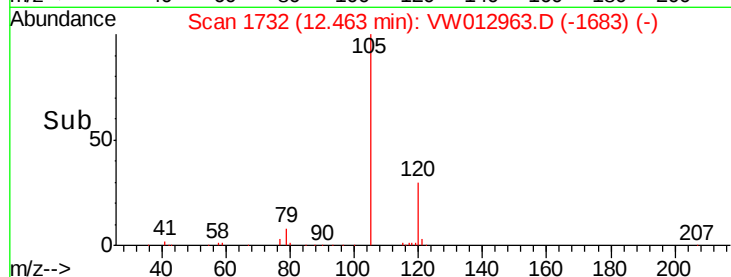
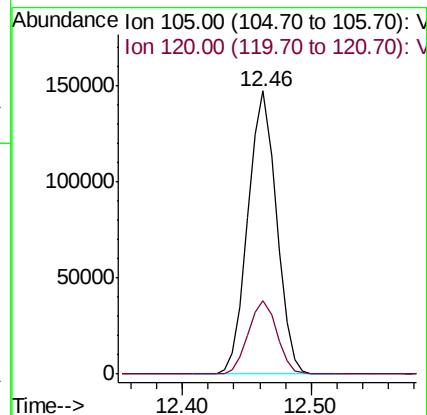
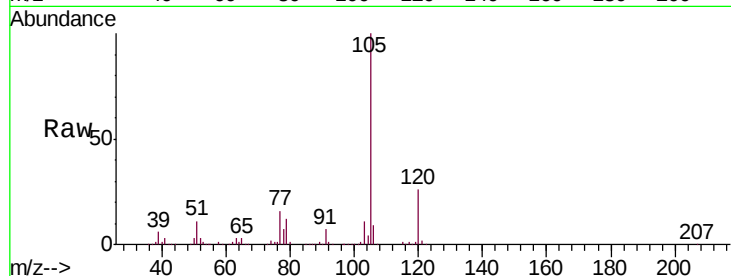
VW0914SBSD01

Tgt Ion:105 Resp: 225600

Ion Ratio Lower Upper

105 100

120 25.9 13.0 39.0



#74

N-ethyl acetate

Concen: 19.636 ug/l

RT: 12.27 min Scan# 1700

Delta R.T. -0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Tgt Ion: 43 Resp: 61530

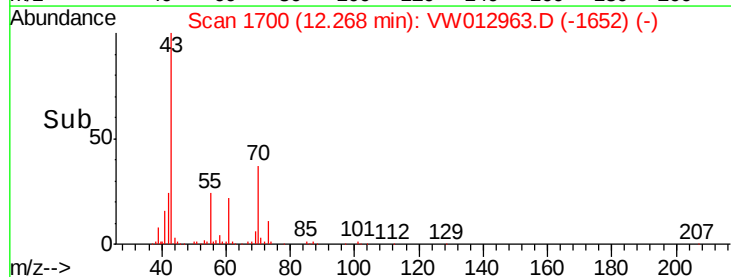
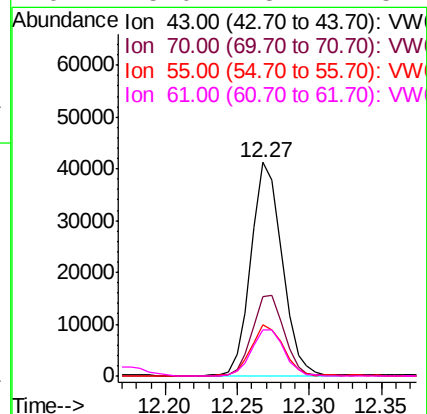
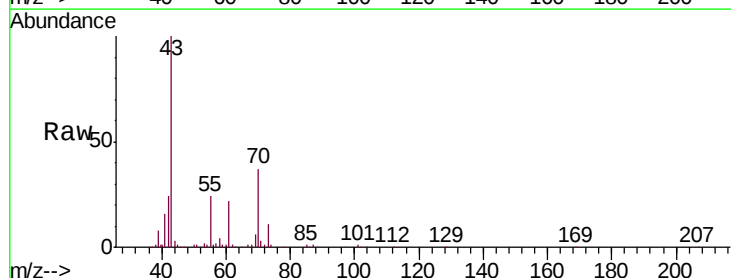
Ion Ratio Lower Upper

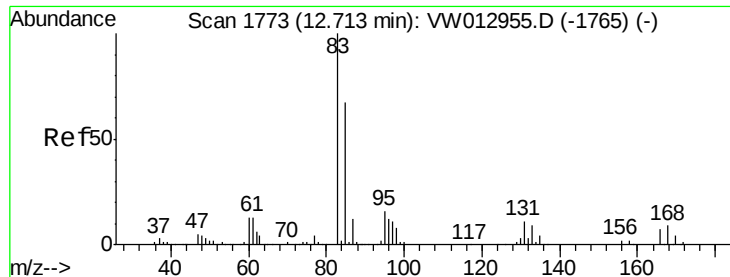
43 100

70 38.5 31.7 47.5

55 25.1 19.4 29.2

61 23.0 18.7 28.1





#75

1,1,2,2-Tetrachloroethane

Concen: 19.760 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampled :

VW0914SBSD01

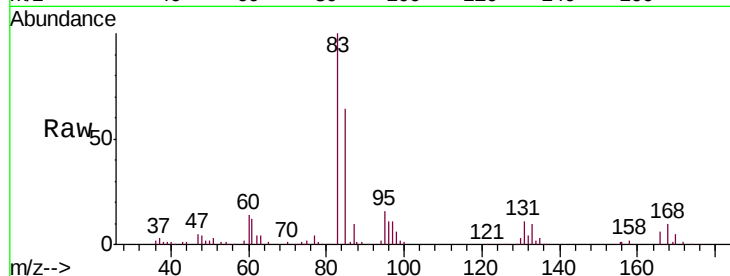
Tgt Ion: 83 Resp: 42276

Ion Ratio Lower Upper

83 100

131 11.0 5.7 17.1

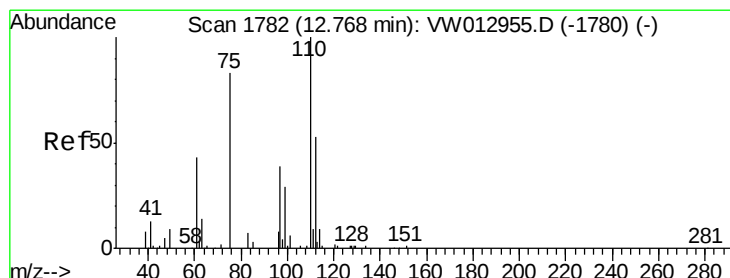
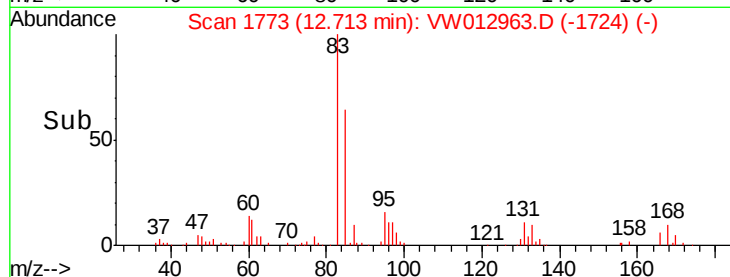
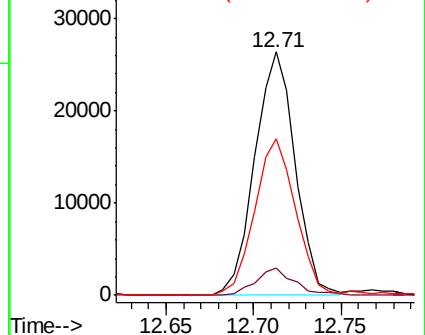
85 65.0 31.4 94.3



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 34.214 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW012963.D

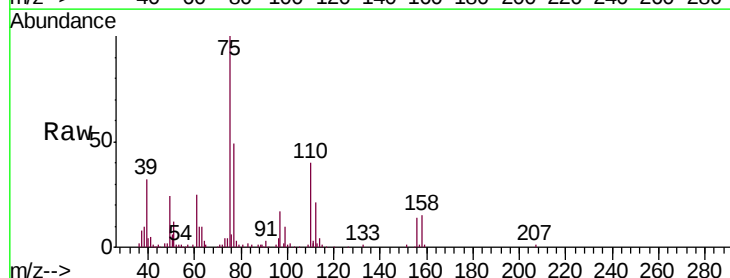
Acq: 13 Sep 2019 20:06

Tgt Ion: 75 Resp: 55075

Ion Ratio Lower Upper

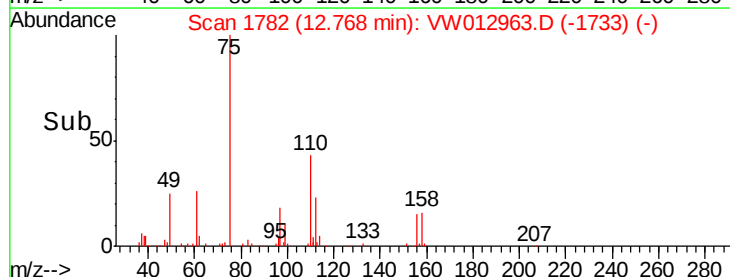
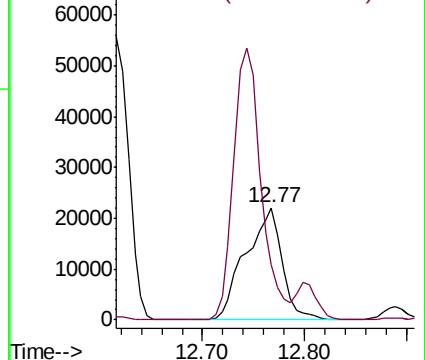
75 100

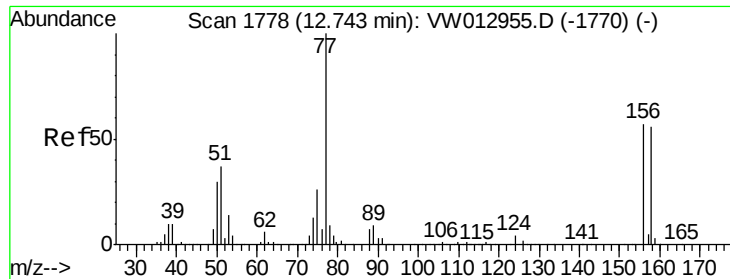
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 19.039 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampled :

VW0914SBSD01

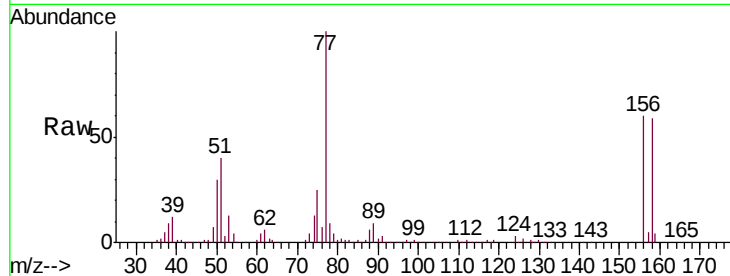
Tgt Ion:156 Resp: 53427

Ion Ratio Lower Upper

156 100

77 187.8 95.2 285.6

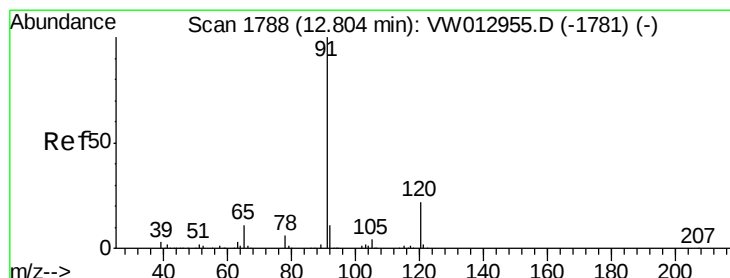
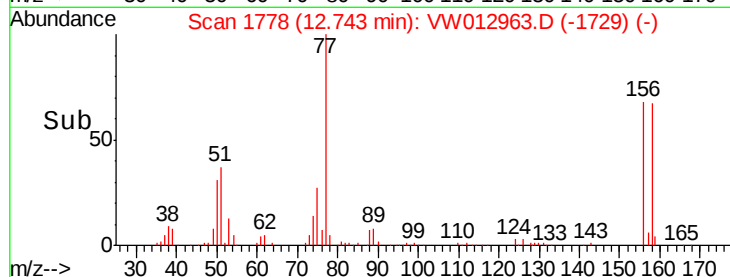
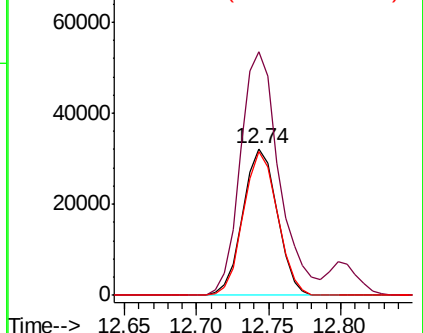
158 97.0 49.0 147.2



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: 18.594 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW012963.D

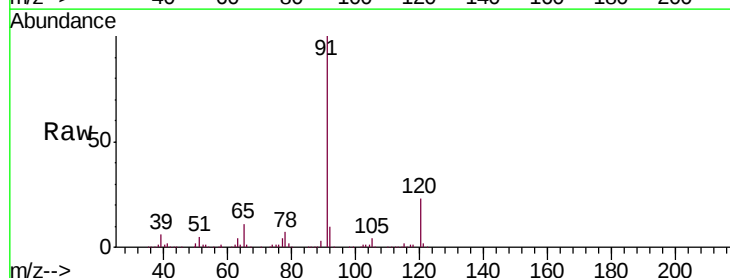
Acq: 13 Sep 2019 20:06

Tgt Ion: 91 Resp: 266424

Ion Ratio Lower Upper

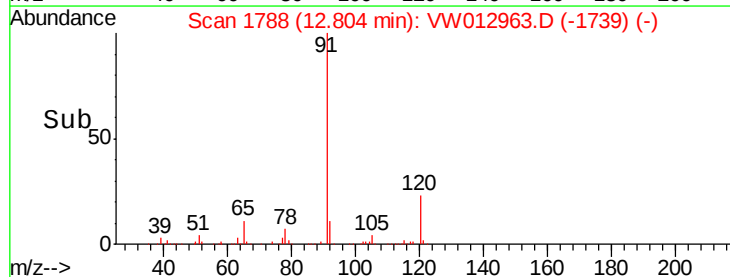
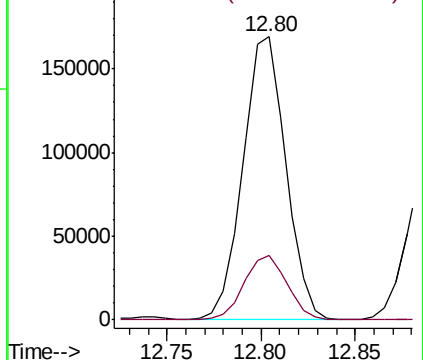
91 100

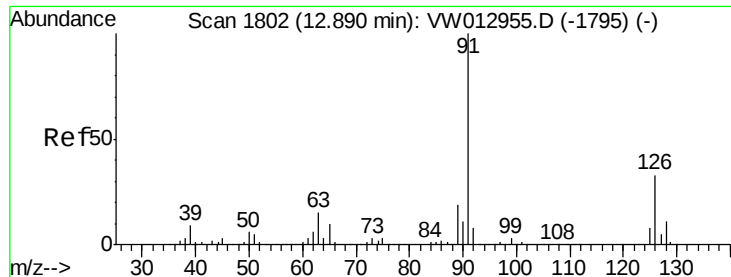
120 22.6 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

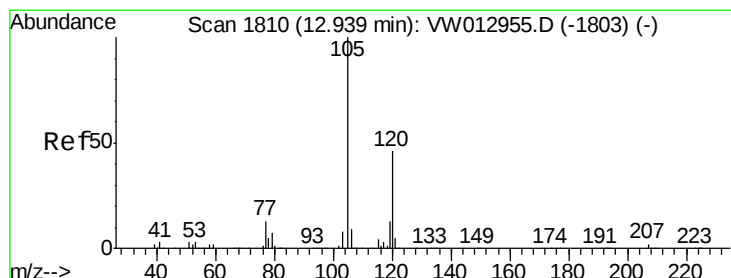
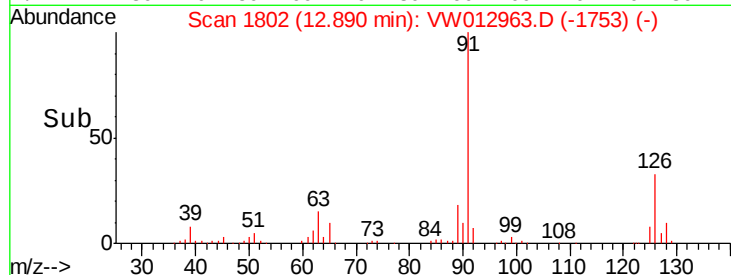
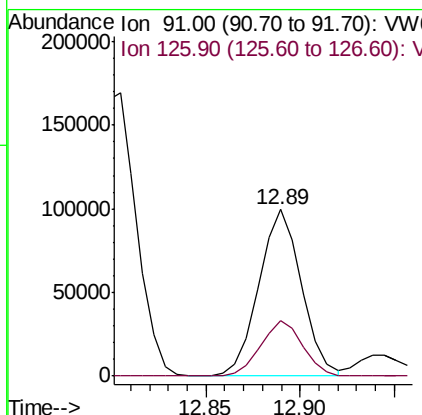
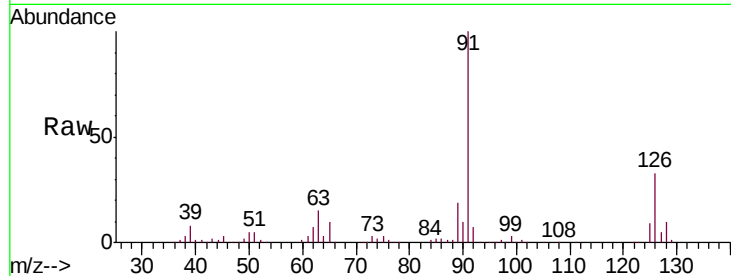




#79  
 2-Chlorotoluene  
 Concen: 18.900 ug/l  
 RT: 12.89 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

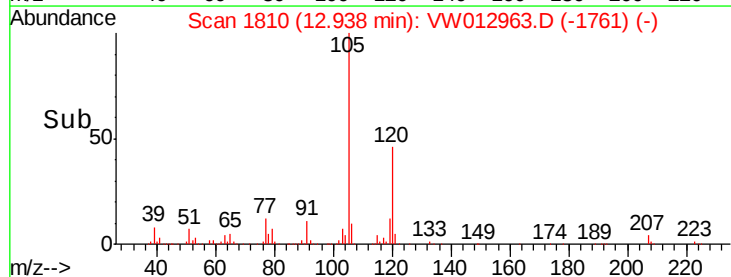
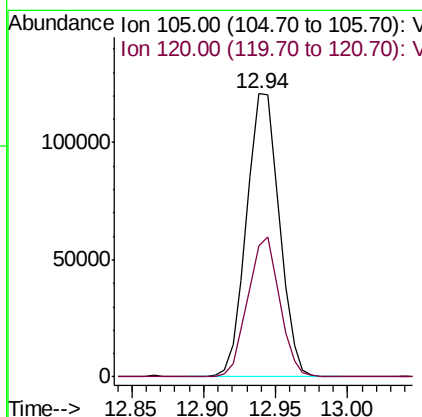
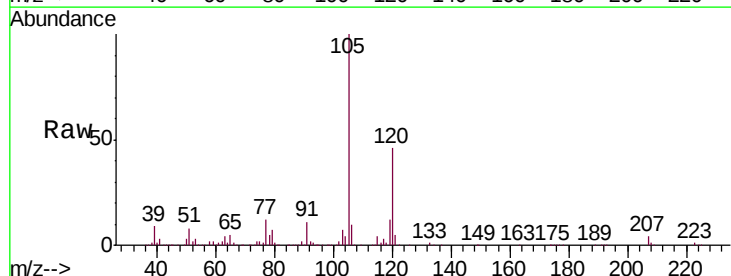
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

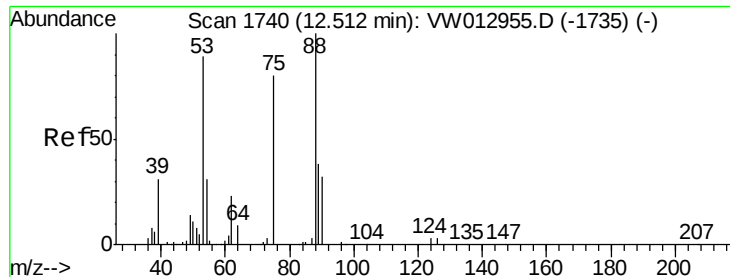
Tgt Ion: 91 Resp: 155682  
 Ion Ratio Lower Upper  
 91 100  
 126 33.0 16.5 49.5



#80  
 1,3,5-Trimethylbenzene  
 Concen: 18.535 ug/l  
 RT: 12.94 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

Tgt Ion: 105 Resp: 191004  
 Ion Ratio Lower Upper  
 105 100  
 120 47.8 24.2 72.6





#81

trans-1,4-Dichloro-2-butene

Concen: 18.110 ug/l

RT: 12.51 min Scan# 1739

Delta R.T. -0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0914SBSD01

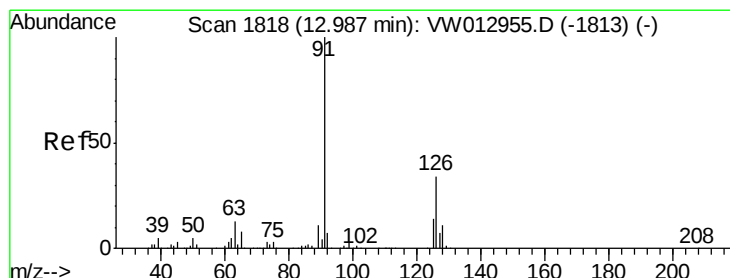
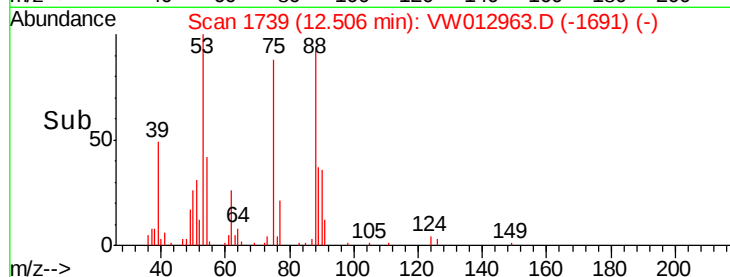
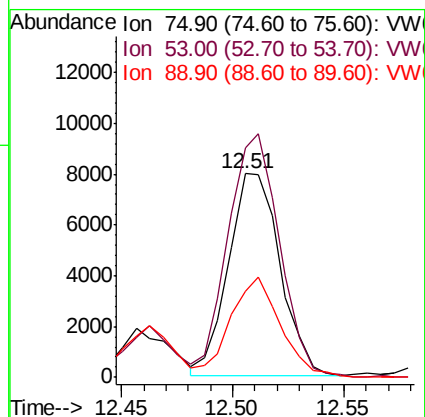
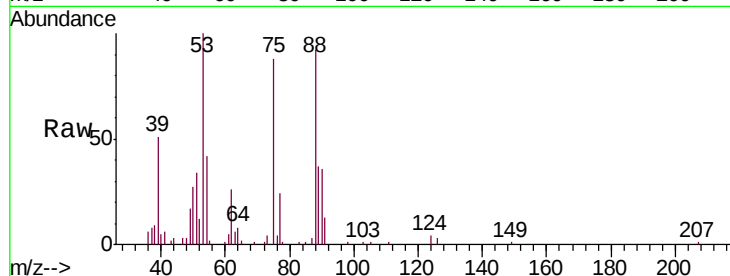
Tgt Ion: 75 Resp: 12851

Ion Ratio Lower Upper

75 100

53 120.5 85.6 128.4

89 48.5 37.2 55.8



#82

4-Chlorotoluene

Concen: 18.912 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW012963.D

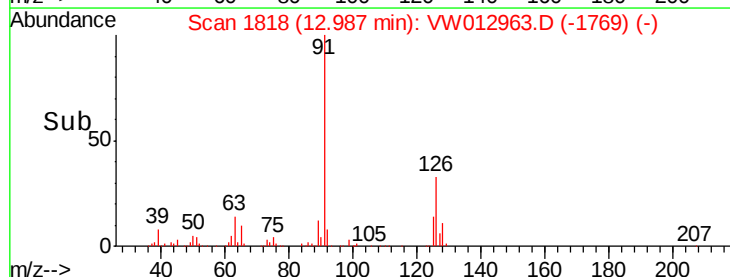
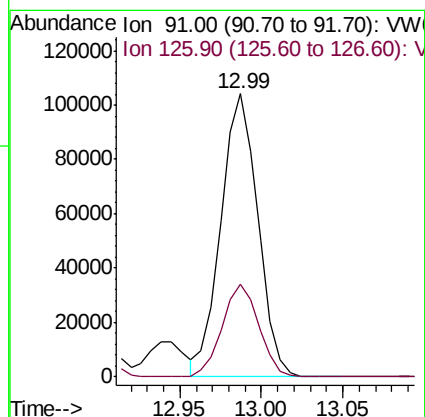
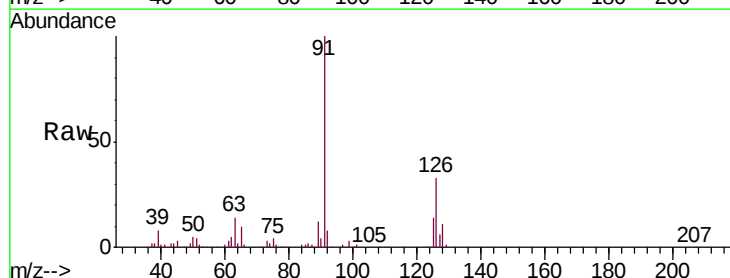
Acq: 13 Sep 2019 20:06

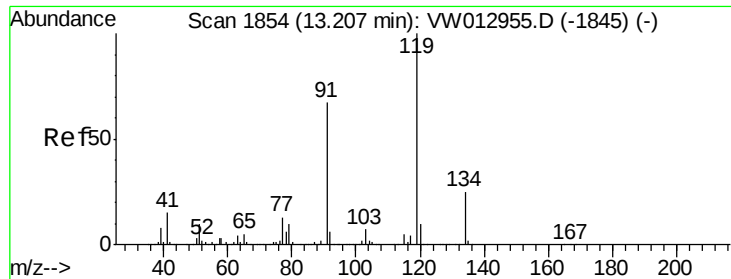
Tgt Ion: 91 Resp: 164363

Ion Ratio Lower Upper

91 100

126 32.5 16.1 48.3

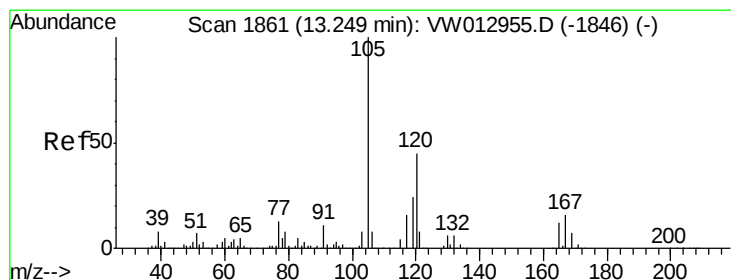
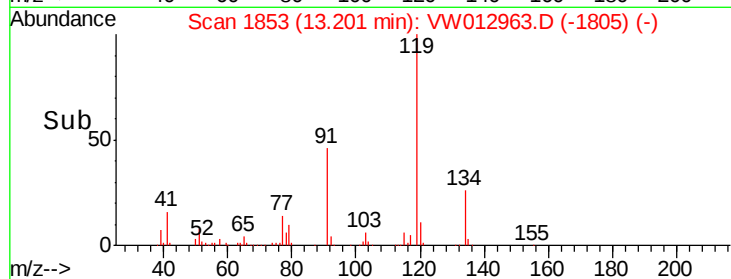
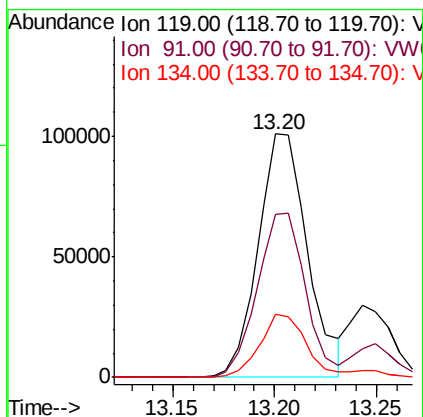
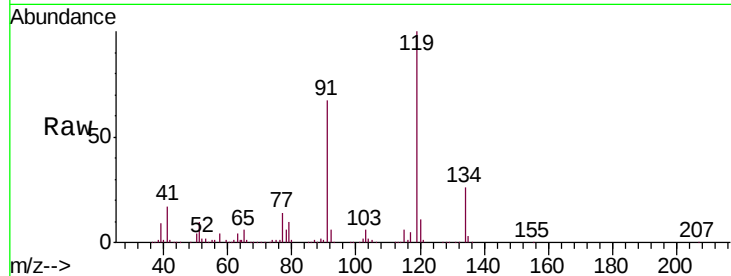




#83  
 tert-Butylbenzene  
 Concen: 18.497 ug/l  
 RT: 13.20 min Scan# 1853  
 Delta R.T. -0.01 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

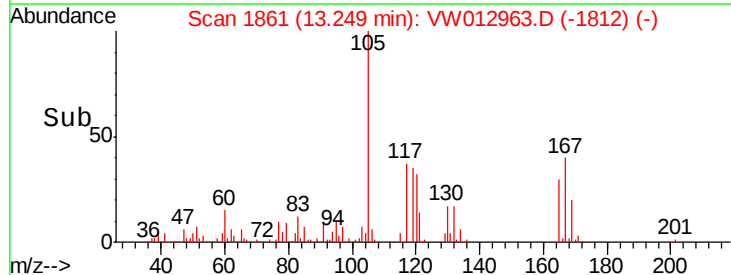
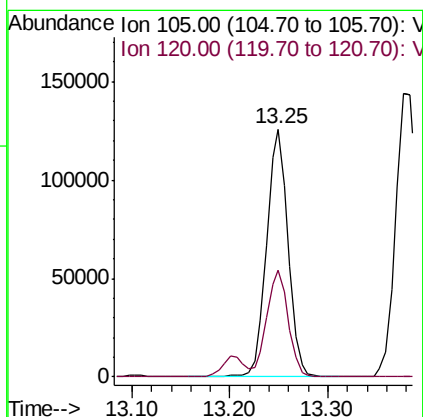
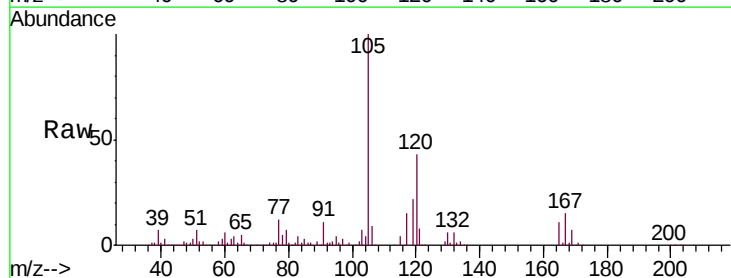
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

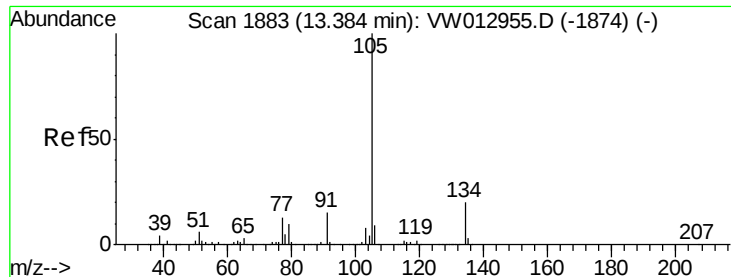
Tgt Ion:119 Resp: 170496  
 Ion Ratio Lower Upper  
 119 100  
 91 65.6 32.6 98.0  
 134 24.7 12.4 37.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 19.064 ug/l  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

Tgt Ion:105 Resp: 194132  
 Ion Ratio Lower Upper  
 105 100  
 120 43.0 21.9 65.7





#85

sec-Butylbenzene

Concen: 18.299 ug/l

RT: 13.38 min Scan# 1882

Delta R.T. -0.01 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

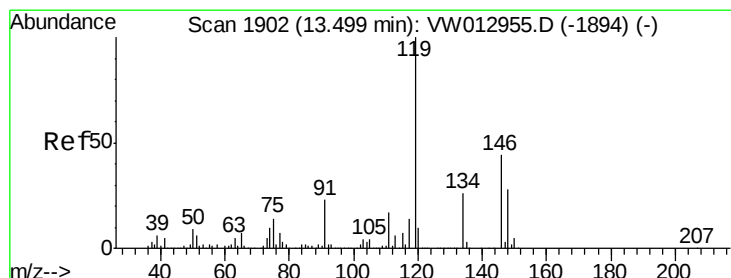
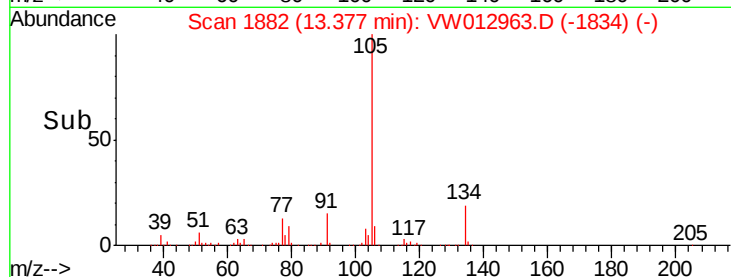
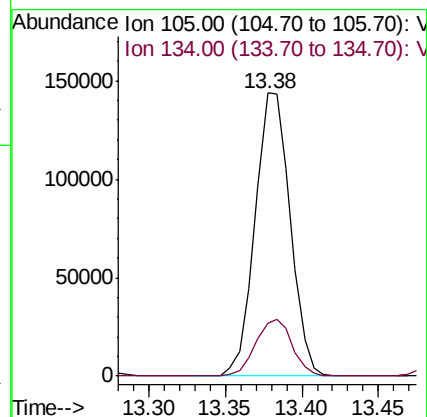
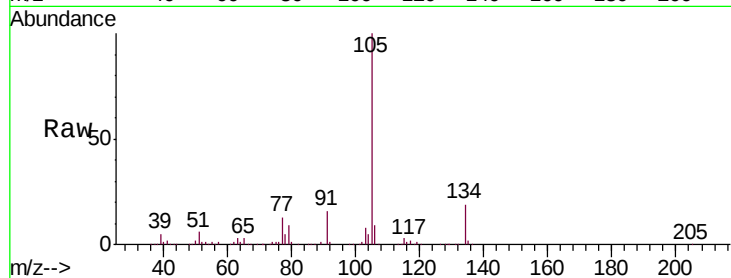
VW0914SBSD01

Tgt Ion:105 Resp: 229809

Ion Ratio Lower Upper

105 100

134 20.7 10.2 30.4



#86

p-Isopropyltoluene

Concen: 18.478 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

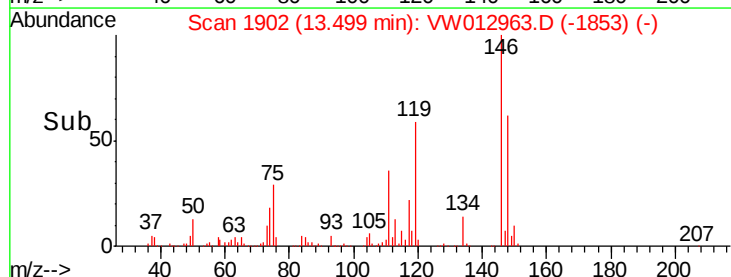
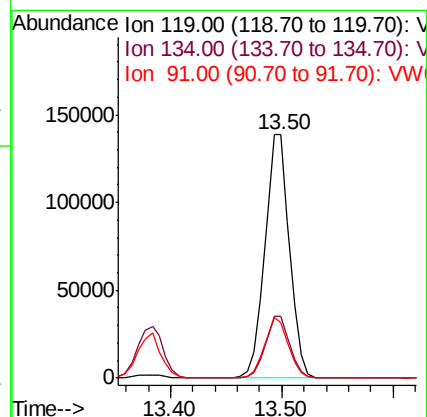
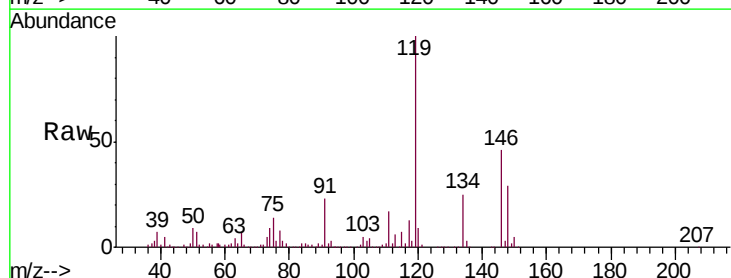
Tgt Ion:119 Resp: 213053

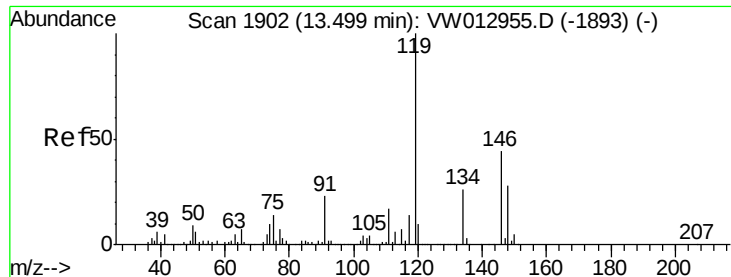
Ion Ratio Lower Upper

119 100

134 25.2 12.8 38.3

91 24.2 11.8 35.4

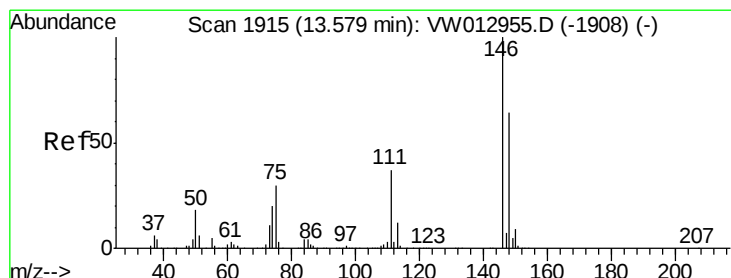
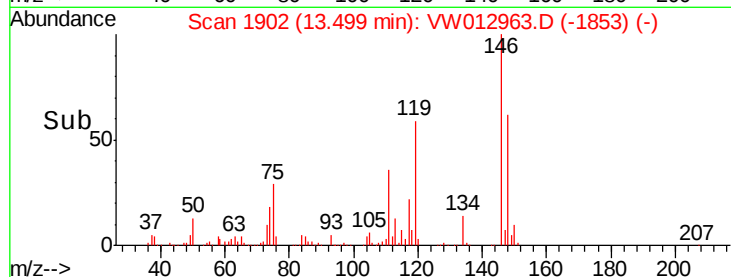
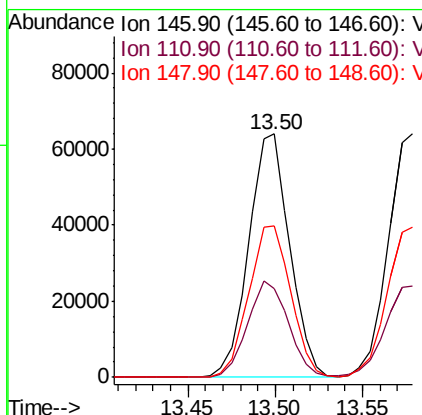
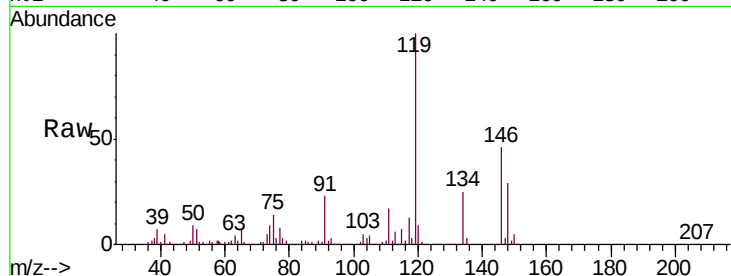




#87  
 1,3-Dichlorobenzene  
 Concen: 18.639 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

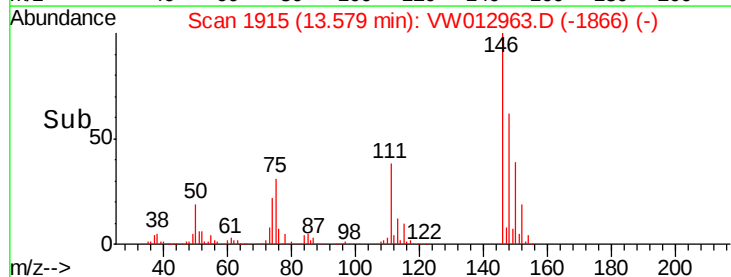
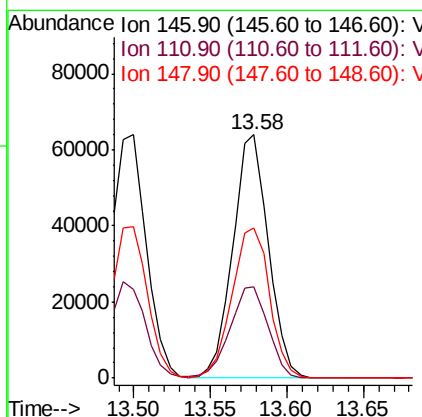
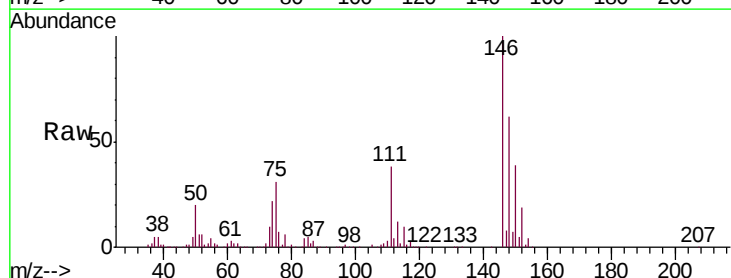
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

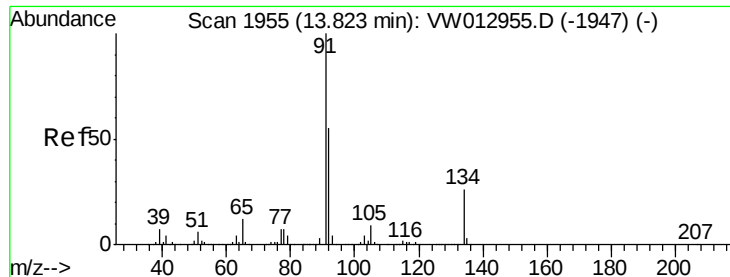
Tgt Ion:146 Resp: 103544  
 Ion Ratio Lower Upper  
 146 100  
 111 39.8 19.8 59.4  
 148 64.3 31.9 95.7



#88  
 1,4-Dichlorobenzene  
 Concen: 18.821 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

Tgt Ion:146 Resp: 102747  
 Ion Ratio Lower Upper  
 146 100  
 111 40.4 19.4 58.2  
 148 65.6 31.9 95.5





#89

n-Butylbenzene

Concen: 18.300 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0914SBSD01

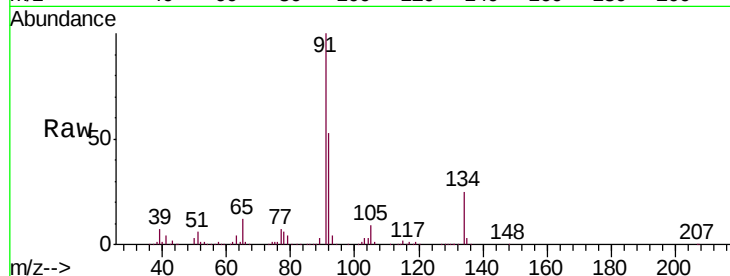
Tgt Ion: 91 Resp: 198990

Ion Ratio Lower Upper

91 100

92 53.5 27.2 81.5

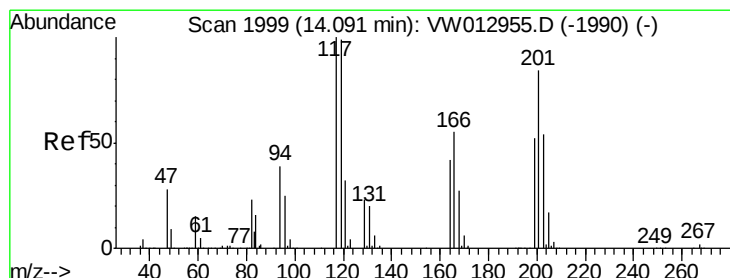
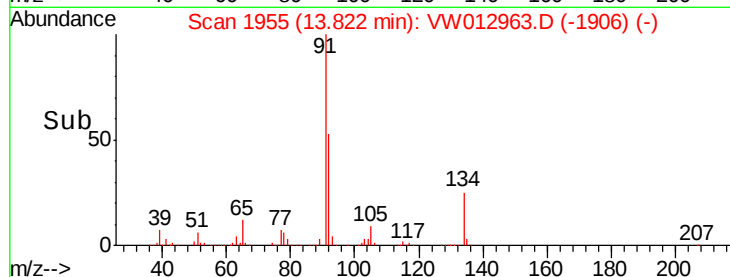
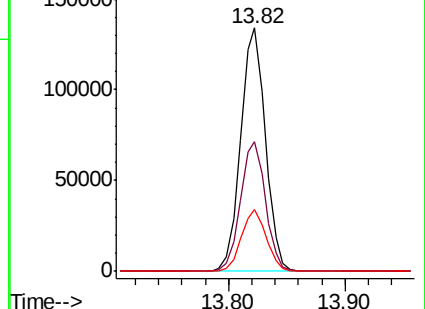
134 25.4 13.1 39.1



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: 18.045 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VW012963.D

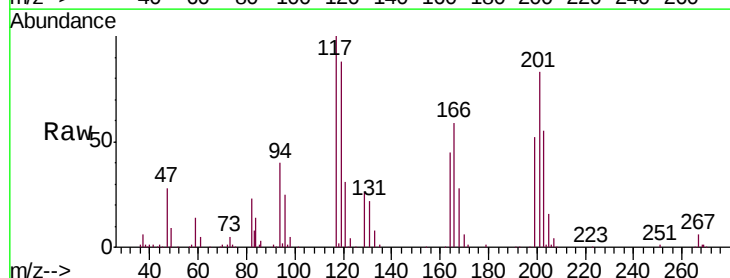
Acq: 13 Sep 2019 20:06

Tgt Ion: 117 Resp: 37285

Ion Ratio Lower Upper

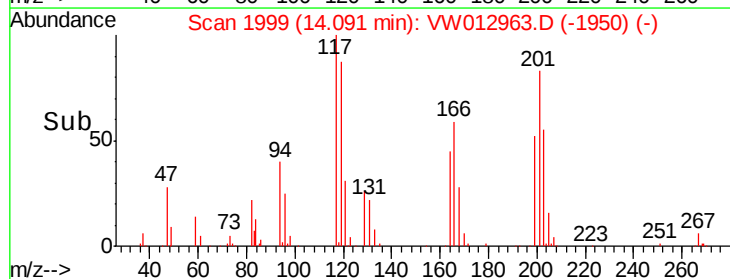
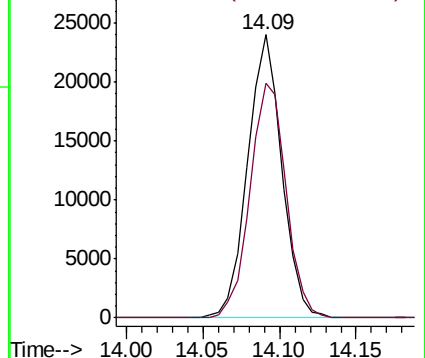
117 100

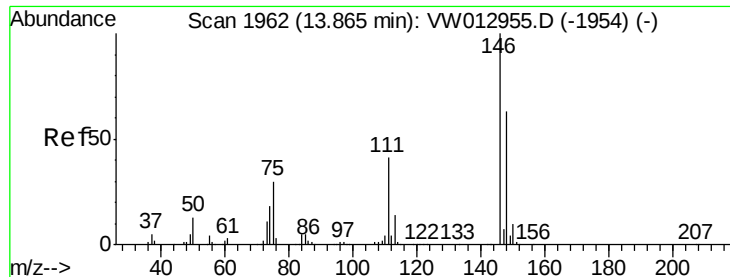
201 87.4 45.3 135.9



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

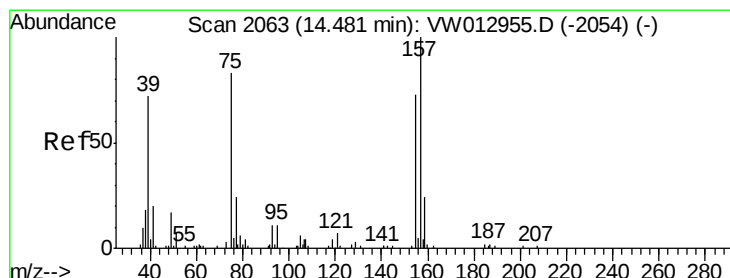
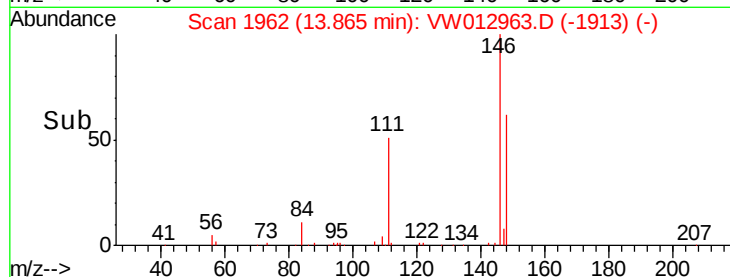
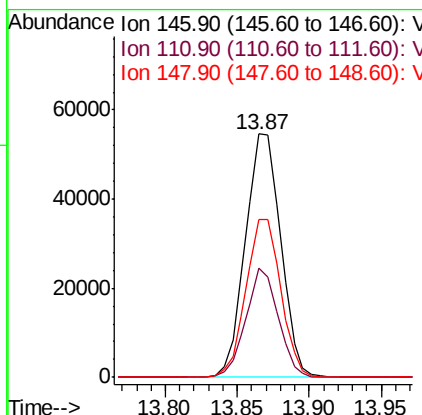
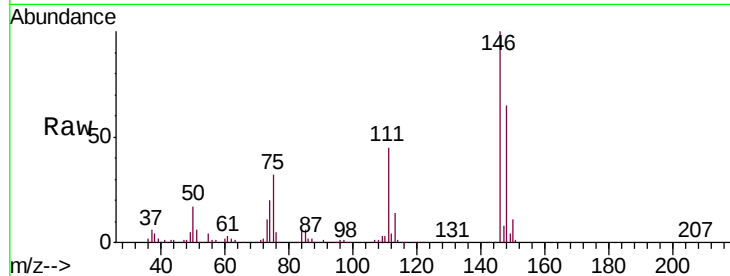




#91  
 1,2-Dichlorobenzene  
 Concen: 18.961 ug/l  
 RT: 13.87 min Scan# 1962  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

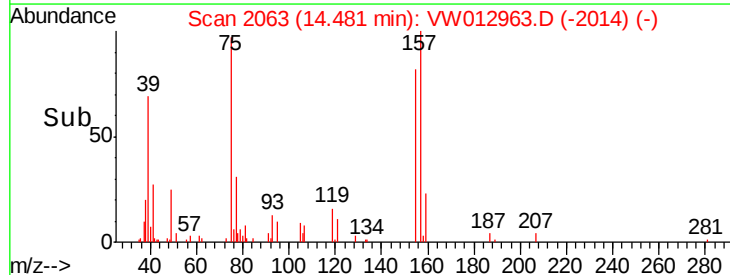
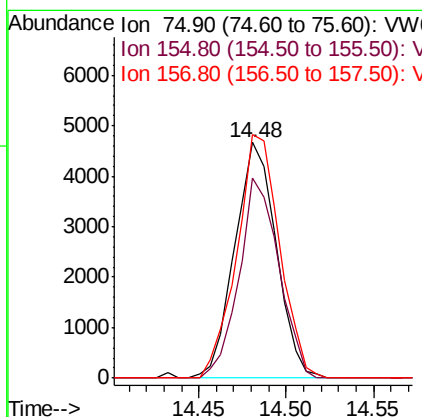
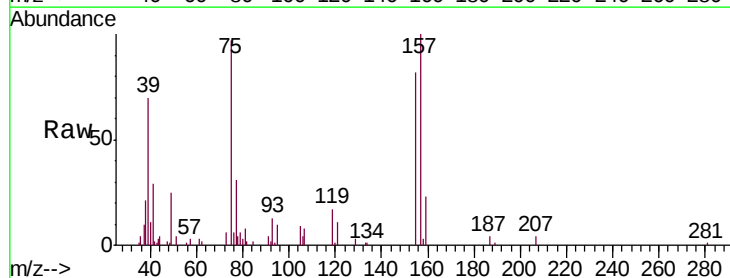
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0914SBSD01

Tgt Ion: 146 Resp: 92627  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 20.8 62.5  
 148 64.1 32.7 98.1



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 19.683 ug/l  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.00 min  
 Lab File: VW012963.D  
 Acq: 13 Sep 2019 20:06

Tgt Ion: 75 Resp: 7708  
 Ion Ratio Lower Upper  
 75 100  
 155 81.2 43.3 129.9  
 157 106.5 54.7 164.1





#93

1,2,4-Trichlorobenzene

Concen: 18.571 ug/l

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

Instrument :

MSVOA\_W

ClientSampleId :

VW0914SBSD01

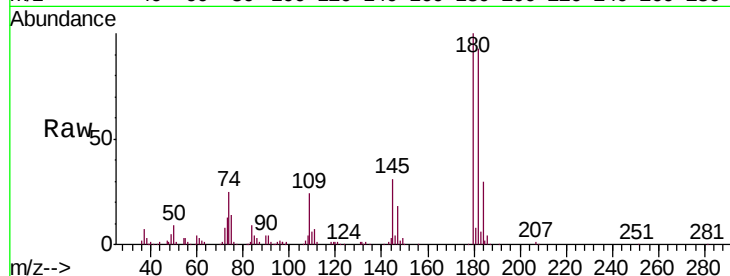
Tgt Ion:180 Resp: 64702

Ion Ratio Lower Upper

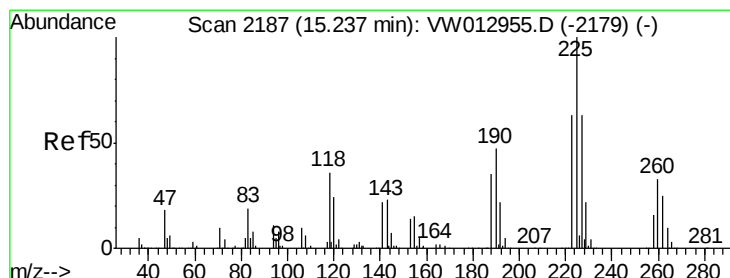
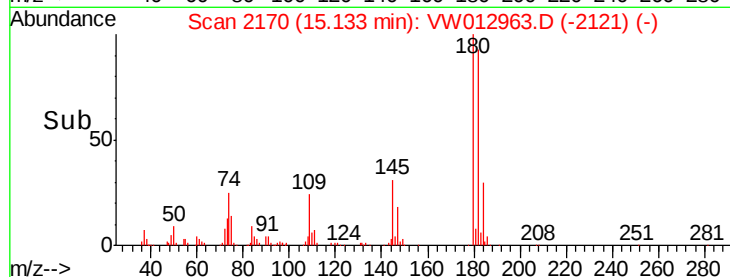
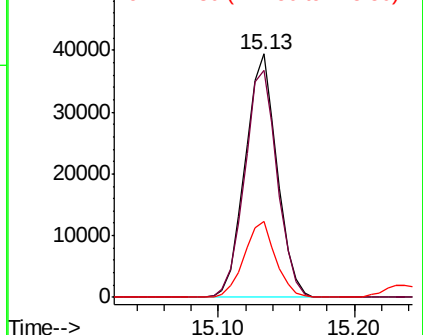
180 100

182 95.6 47.4 142.2

145 30.6 14.9 44.7



Abundance Ion 179.80 (179.50 to 180.50): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 18.655 ug/l

RT: 15.24 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VW012963.D

Acq: 13 Sep 2019 20:06

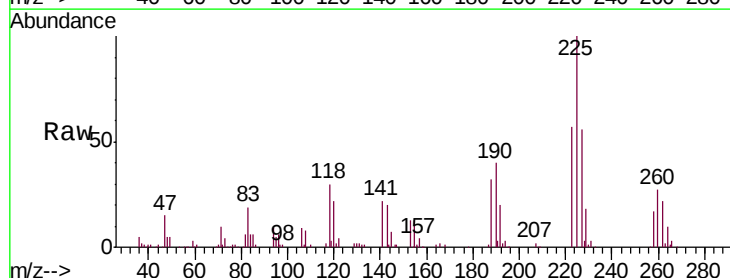
Tgt Ion:225 Resp: 46011

Ion Ratio Lower Upper

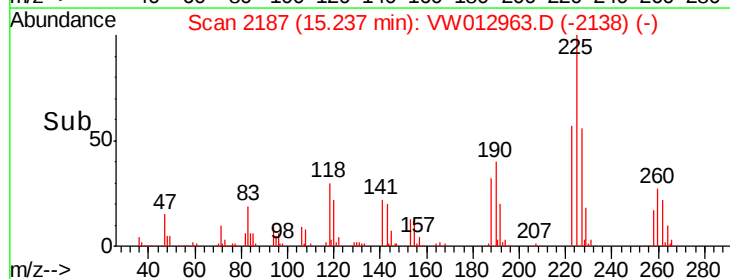
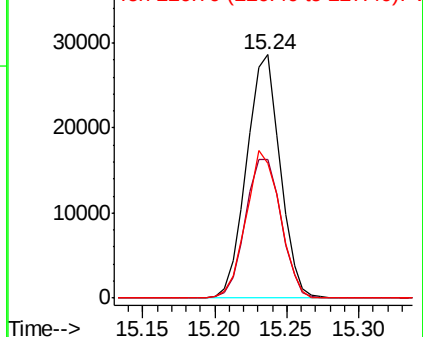
225 100

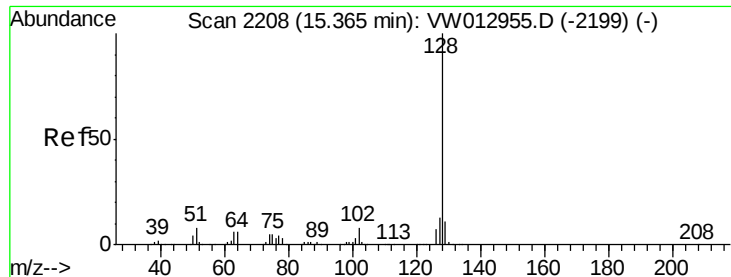
223 61.4 31.8 95.3

227 61.4 31.3 93.8



Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V

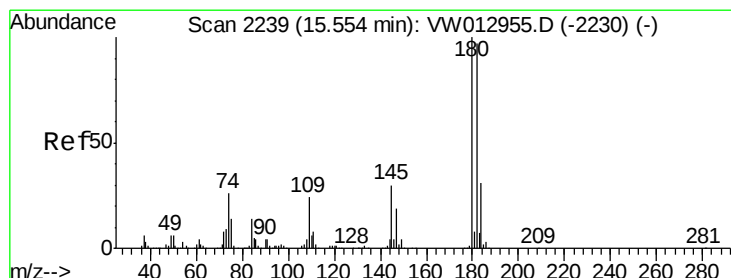
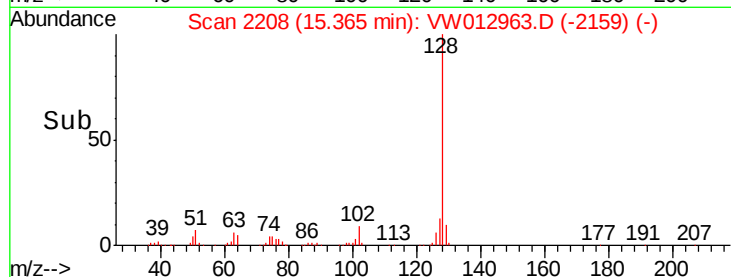
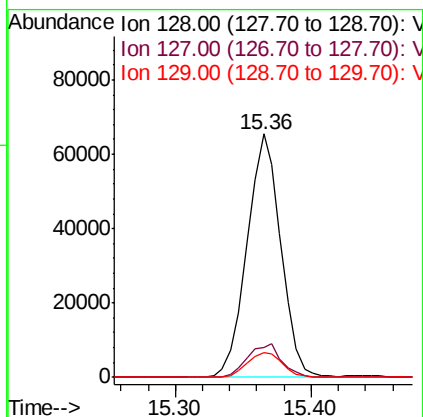
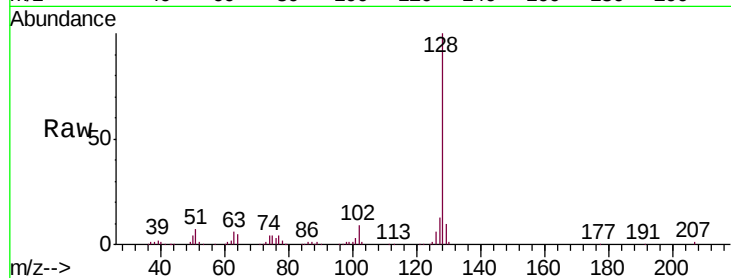




#95  
Naphthalene  
Concen: 19.512 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0914SBSD01

Tgt Ion:128 Resp: 113588  
Ion Ratio Lower Upper  
128 100  
127 14.0 11.0 16.6  
129 10.9 8.6 12.8



#96  
1,2,3-Trichlorobenzene  
Concen: 18.262 ug/l  
RT: 15.55 min Scan# 2239  
Delta R.T. -0.00 min  
Lab File: VW012963.D  
Acq: 13 Sep 2019 20:06

Tgt Ion:180 Resp: 56242  
Ion Ratio Lower Upper  
180 100  
182 97.3 47.6 142.8  
145 31.6 15.4 46.2

