

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031119\  
 Data File : VW009113.D  
 Acq On : 12 Mar 2019 04:51  
 Operator : SY/VA  
 Sample : K1847-07  
 Misc : 7.49G/5ML/MSVOA W/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-7B-G-7-031119

Quant Time: Mar 12 08:19:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 05:22:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 4588     | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 6727     | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 4773     | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 679      | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 3307     | 71.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 143.28% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 2444     | 60.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 120.68% |          |
| 50) Toluene-d8              | 10.33 | 98   | 8679     | 52.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.34% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 1292     | 19.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 39.46%  |          |

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 3) Chloromethane              | 2.22  | 50   | 175      | 2.979   | ug/l # | 84     |
| 6) Chloroethane               | 2.93  | 64   | 217      | 5.113   | ug/l # | 43     |
| 8) Diethyl Ether              | 3.70  | 74   | 94       | 4.005   | ug/l   | 55     |
| 10) Methyl Iodide             | 4.43  | 142  | 70       | 4.451   | ug/l # | 40     |
| 11) Tert butyl alcohol        | 5.16  | 59   | 57       | 16.114  | ug/l # | 17     |
| 13) Acrolein                  | 3.94  | 56   | 40       | 10.276  | ug/l # | 14     |
| 15) Acrylonitrile             | 5.35  | 53   | 164      | 16.011  | ug/l # | 16     |
| 16) Acetone                   | 4.13  | 43   | 424      | 40.705  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.68  | 43   | 211      | 8.809   | ug/l # | 54     |
| 20) Methylene Chloride        | 4.91  | 84   | 576      | 7.099   | ug/l # | 76     |
| 21) trans-1,2-Dichloroethene  | 5.51  | 96   | 57       | 1.197   | ug/l # | 1      |
| 25) 2-Butanone                | 7.18  | 43   | 84       | 5.835   | ug/l # | 50     |
| 27) cis-1,2-Dichloroethene    | 7.18  | 96   | 109      | 2.132   | ug/l # | 3      |
| 28) Bromochloromethane        | 7.55  | 49   | 67       | 1.921   | ug/l # | 14     |
| 29) Tetrahydrofuran           | 7.54  | 42   | 265      | 29.212  | ug/l # | 36     |
| 37) Ethyl Acetate             | 7.24  | 43   | 129      | 3.904   | ug/l # | 71     |
| 38) Carbon Tetrachloride      | 7.94  | 117  | 781      | 10.751  | ug/l # | 13     |
| 41) Methacrylonitrile         | 7.50  | 41   | 378      | 20.603  | ug/l # | 35     |
| 46) Dibromomethane            | 9.34  | 93   | 30       | 1.168   | ug/l # | 3      |
| 47) Bromodichloromethane      | 9.56  | 83   | 116      | 1.784   | ug/l # | 26     |
| 48) Methyl methacrylate       | 9.46  | 41   | 236      | 8.237   | ug/l # | 44     |
| 49) 1,4-Dioxane               | 9.26  | 88   | 58       | 157.703 | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone      | 10.21 | 43   | 236      | 7.555   | ug/l   | 93     |
| 52) Toluene                   | 10.40 | 92   | 502      | 3.942   | ug/l   | 92     |
| 53) t-1,3-Dichloropropene     | 10.55 | 75   | 74       | 1.151   | ug/l # | 45     |
| 58) 2-Chloroethyl Vinyl ether | 9.91  | 63   | 23       | 1.027   | ug/l # | 46     |
| 59) 2-Hexanone                | 11.19 | 43   | 100      | 4.553   | ug/l   | 98     |
| 60) Dibromochloromethane      | 11.10 | 129  | 63       | 1.462   | ug/l # | 11     |
| 64) Tetrachloroethene         | 10.75 | 164  | 71       | 2.063   | ug/l # | 19     |
| 74) N-amyl acetate            | 12.30 | 43   | 47       | 4.083   | ug/l # | 1      |
| 75) 1,1,2,2-Tetrachloroethane | 12.78 | 83   | 64       | 8.344   | ug/l # | 66     |
| 76) 1,2,3-Trichloropropane    | 12.73 | 75   | 25       | 4.660   | ug/l   | 25     |
| 77) Bromobenzene              | 12.95 | 156  | 44       | 3.960   | ug/l # | 4      |
| 78) n-propylbenzene           | 12.82 | 91   | 131      | 2.187   | ug/l # | 53     |

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 Operator : SY/VA  
 Sample : K1847-07  
 Misc : 7.49G/5ML/MSVOA W/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

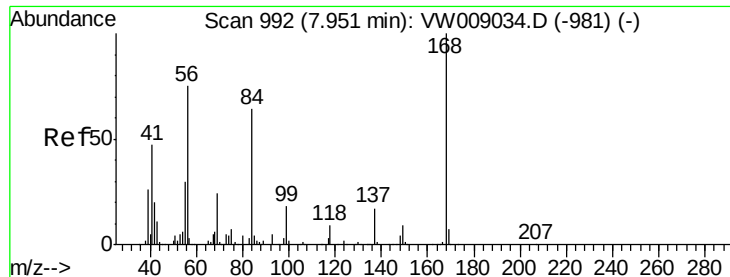
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-7B-G-7-031119

Quant Time: Mar 12 08:19:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 05:22:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 79) 2-Chlorotoluene            | 12.82 | 91   | 131      | 3.893  | ug/l   | 76       |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 44       | 18.345 | ug/l # | 63       |
| 82) 4-Chlorotoluene            | 12.82 | 91   | 131      | 3.652  | ug/l   | 76       |
| 87) 1,3-Dichlorobenzene        | 13.68 | 146  | 24       | 1.028  | ug/l # | 25       |
| 88) 1,4-Dichlorobenzene        | 13.68 | 146  | 24       | 1.040  | ug/l # | 25       |
| 90) Hexachloroethane           | 14.17 | 117  | 24       | 2.970  | ug/l # | 10       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 45       | 2.184  | ug/l # | 58       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 22       | 16.105 | ug/l # | 3        |
| 95) Naphthalene                | 15.35 | 128  | 55       | 2.415  | ug/l # | 68       |
| 96) 1,2,3-Trichlorobenzene     | 15.72 | 180  | 23       | 1.880  | ug/l # | 12       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

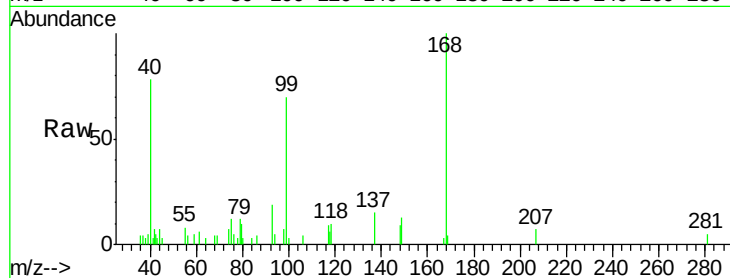
SUP-7B-G-7-031119

Tot Ion:168 Resp: 4588

Ion Ratio Lower Upper

168 100

99 69.7 42.2 63.2#



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

2000

1500

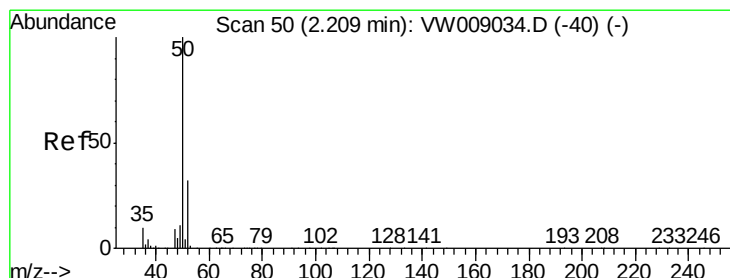
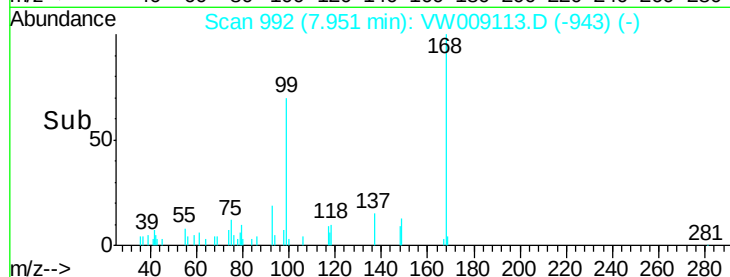
1000

500

0

7.90 7.95 8.00

Time-->



#3

Chloromethane

Concen: 2.979 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW009113.D

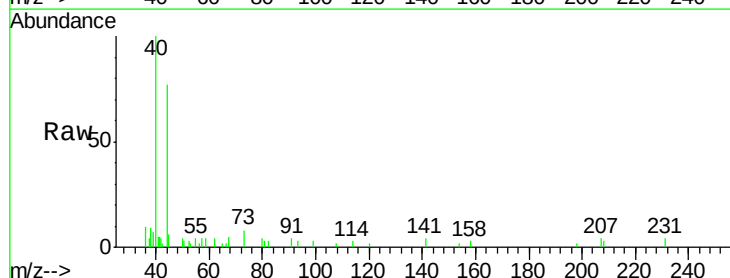
Acq: 12 Mar 2019 04:51

Tgt Ion: 50 Resp: 175

Ion Ratio Lower Upper

50 100

52 40.5 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.22

250

200

150

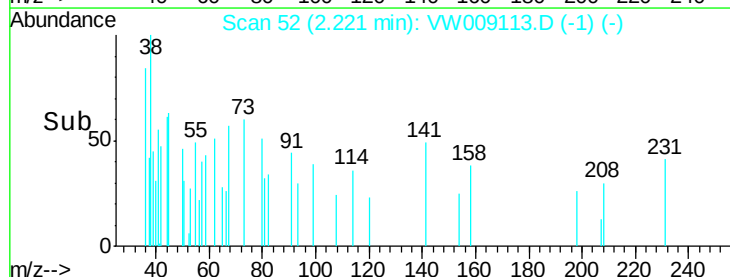
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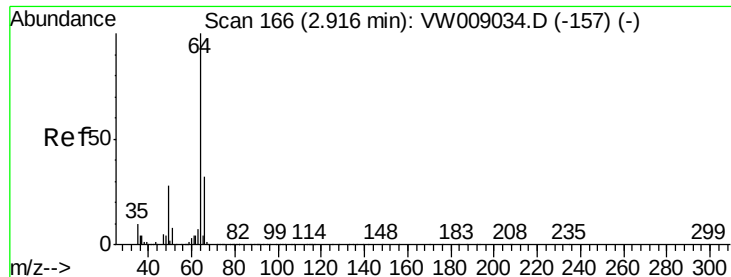
50

0

2.20 2.22 2.24

Time-->





#6

Chloroethane

Concen: 5.113 ug/l

RT: 2.93 min Scan# 169

Delta R.T. 0.02 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

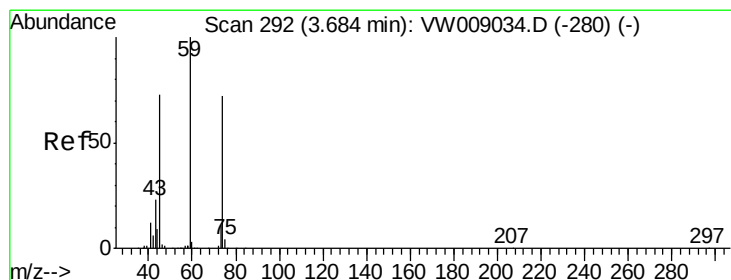
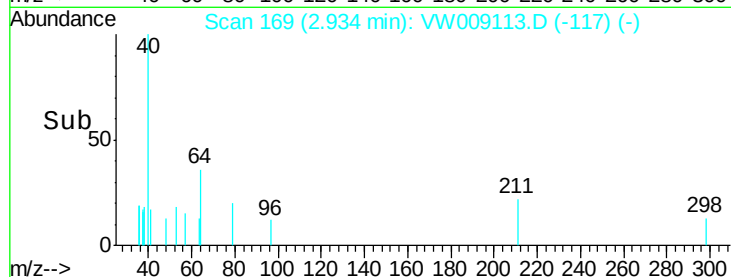
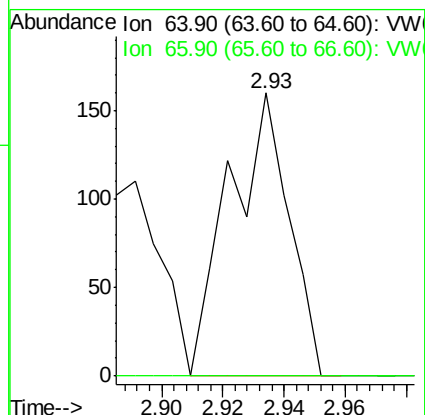
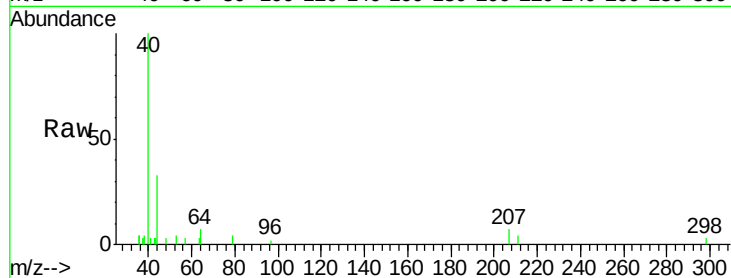
SUP-7B-G-7-031119

Tot Ion: 64 Resp: 217

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#8

Diethyl Ether

Concen: 4.005 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.01 min

Lab File: VW009113.D

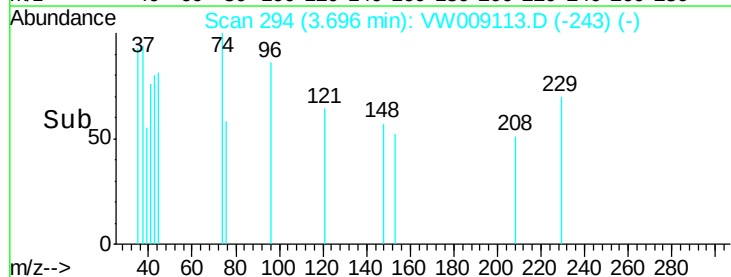
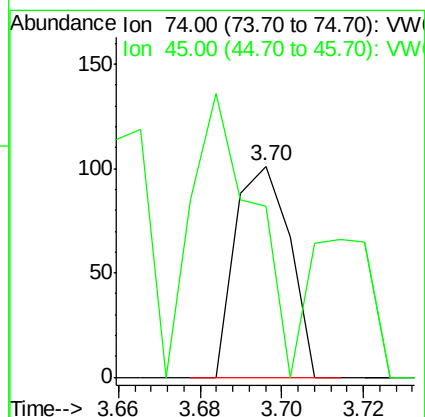
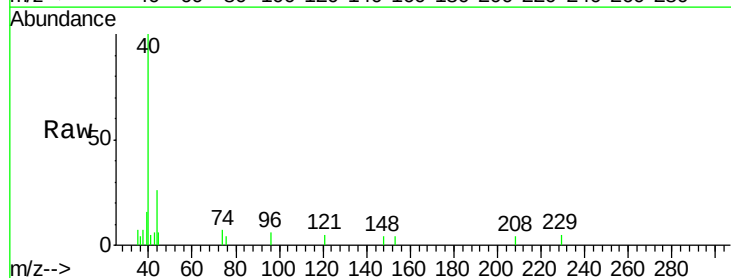
Acq: 12 Mar 2019 04:51

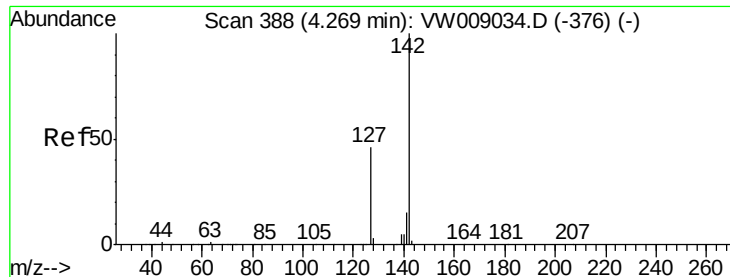
Tgt Ion: 74 Resp: 94

Ion Ratio Lower Upper

74 100

45 151.1 52.3 157.1

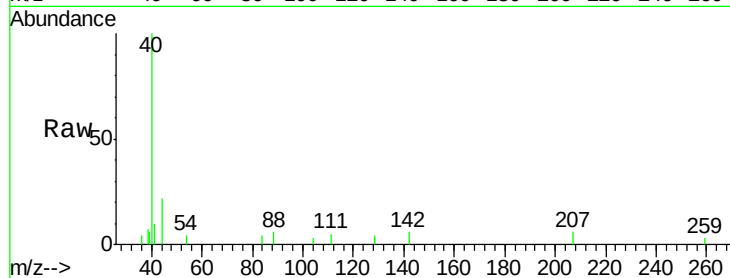




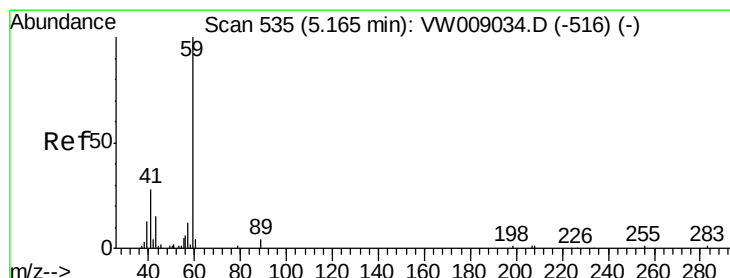
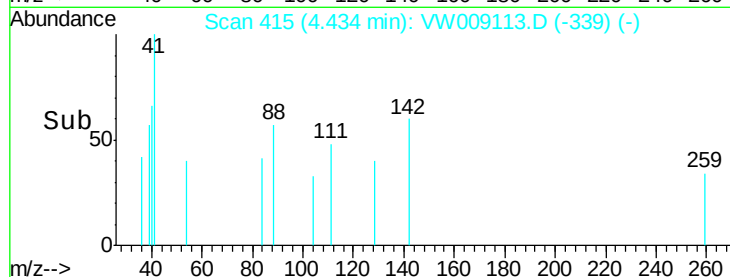
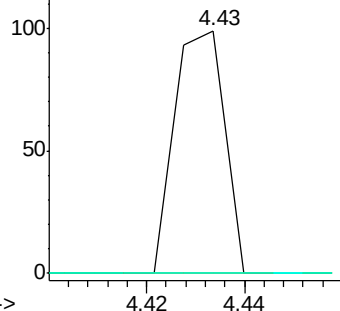
#10  
Methvl Iodide  
Concen: 4.451 ug/l  
RT: 4.43 min Scan# 415  
Delta R.T. 0.16 min  
Lab File: VW009113.D  
Acq: 12 Mar 2019 04:51

Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-7B-G-7-031119

Tot Ion:142 Resp: 70  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.8 53.6#  
141 0.0 11.8 17.8#

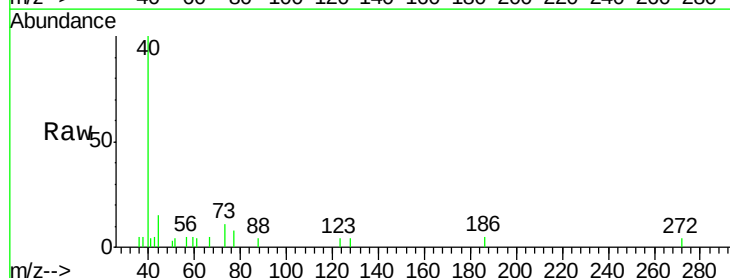


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

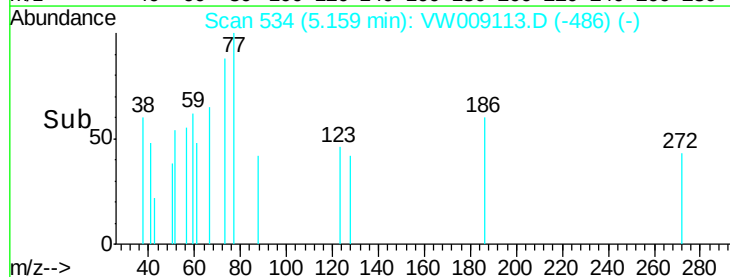
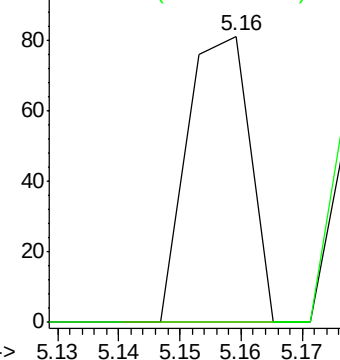


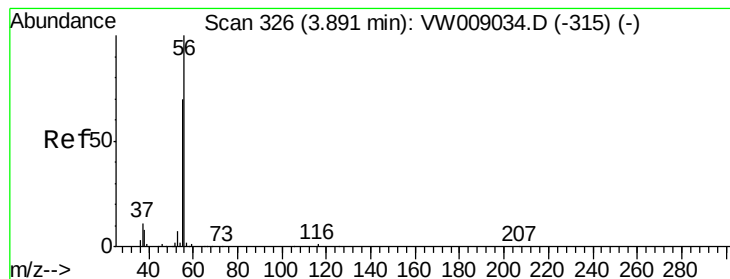
#11  
Tert butyl alcohol  
Concen: 16.114 ug/l  
RT: 5.16 min Scan# 534  
Delta R.T. -0.01 min  
Lab File: VW009113.D  
Acq: 12 Mar 2019 04:51

Tgt Ion: 59 Resp: 57  
Ion Ratio Lower Upper  
59 100  
57 42.1 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VW  
Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 10.276 ug/l

RT: 3.94 min Scan# 334

Delta R.T. 0.05 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

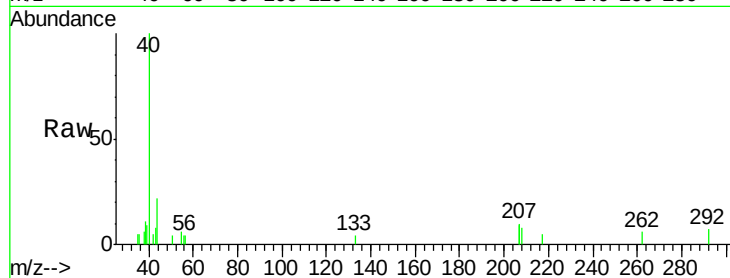
SUP-7B-G-7-031119

Tot Ion: 56 Resp: 40

Ion Ratio Lower Upper

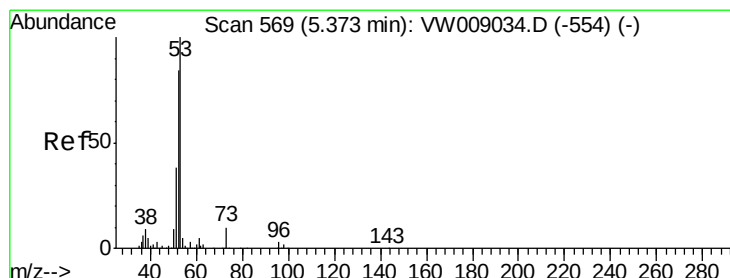
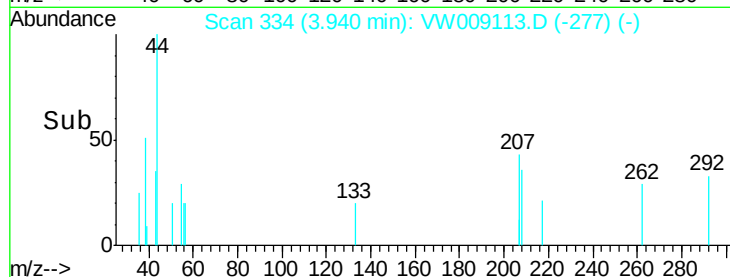
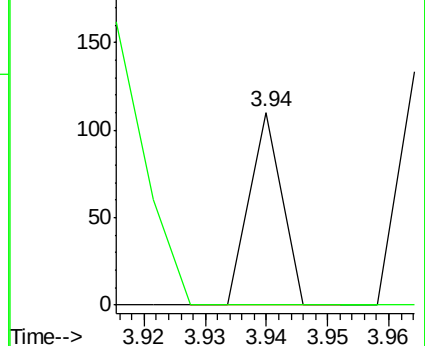
56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#15

Acrylonitrile

Concen: 16.011 ug/l

RT: 5.35 min Scan# 566

Delta R.T. -0.02 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

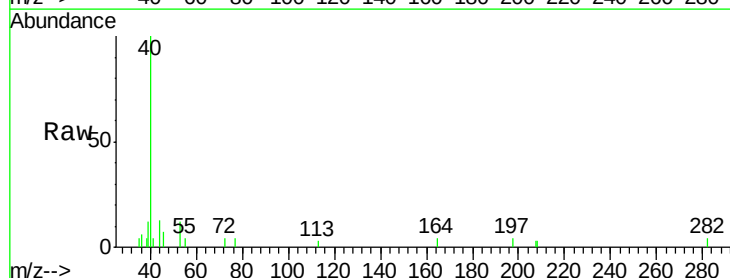
Tgt Ion: 53 Resp: 164

Ion Ratio Lower Upper

53 100

52 0.0 67.2 100.8#

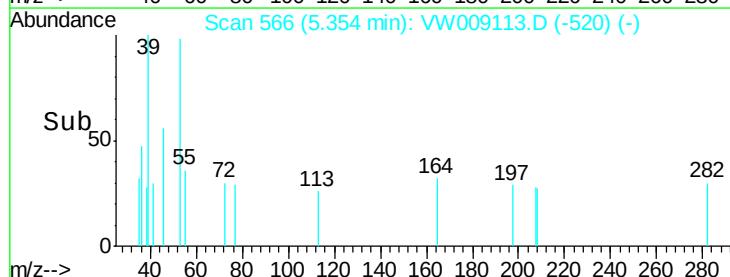
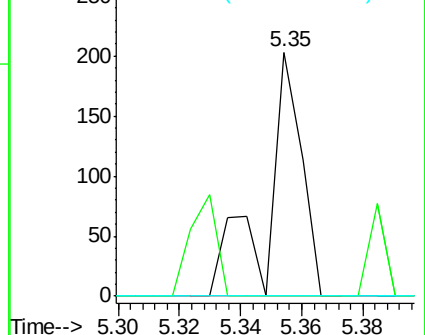
51 0.0 31.8 47.6#

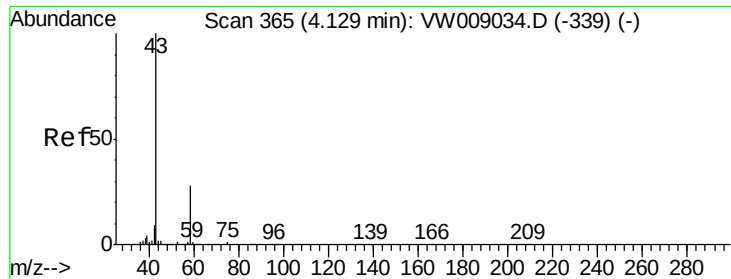


Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW

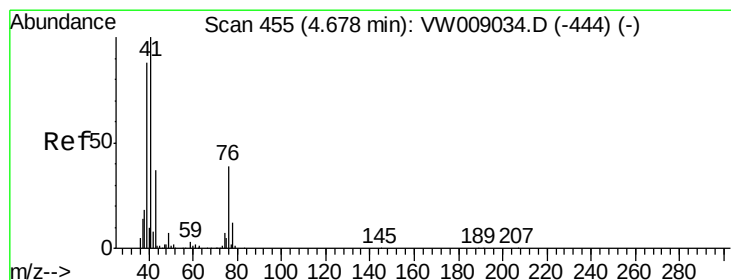
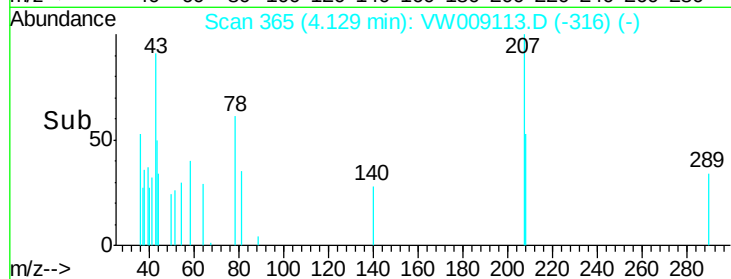
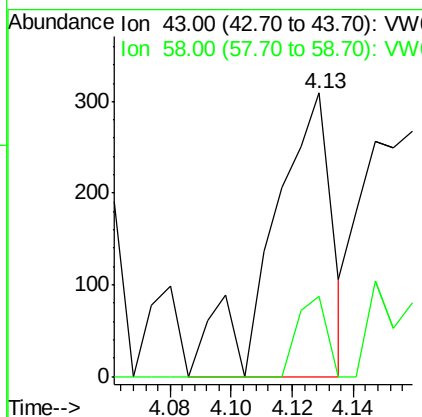
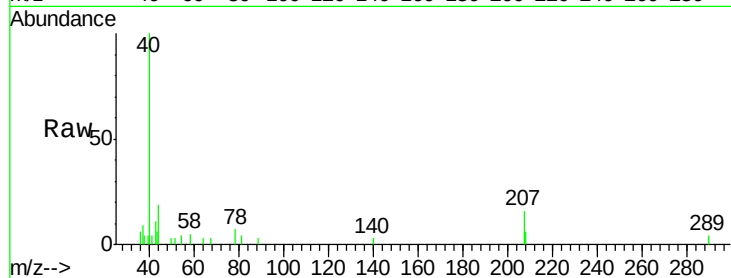




#16  
Acetone  
Concen: 40.705 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. -0.00 min  
Lab File: VW009113.D  
Acq: 12 Mar 2019 04:51

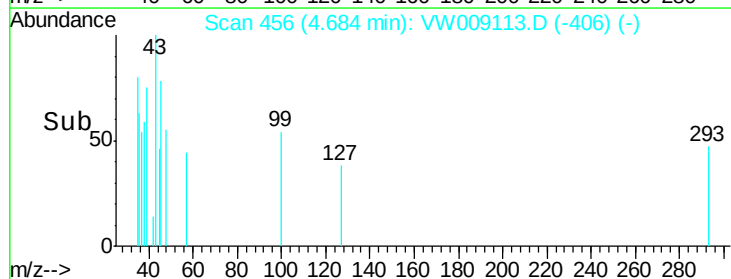
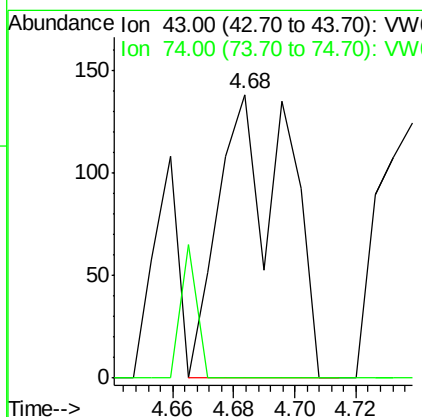
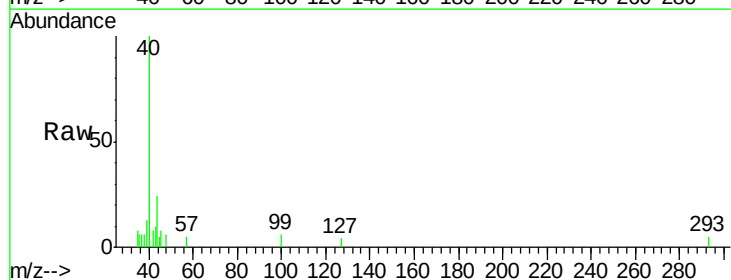
Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-7B-G-7-031119

Tot Ion: 43 Resp: 424  
Ion Ratio Lower Upper  
43 100  
58 28.5 22.5 33.7

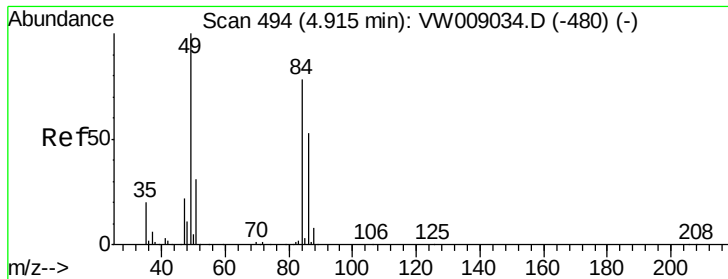


#18  
Methyl Acetate  
Concen: 8.809 ug/l  
RT: 4.68 min Scan# 456  
Delta R.T. 0.01 min  
Lab File: VW009113.D  
Acq: 12 Mar 2019 04:51

Tgt Ion: 43 Resp: 211  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.6 26.4#



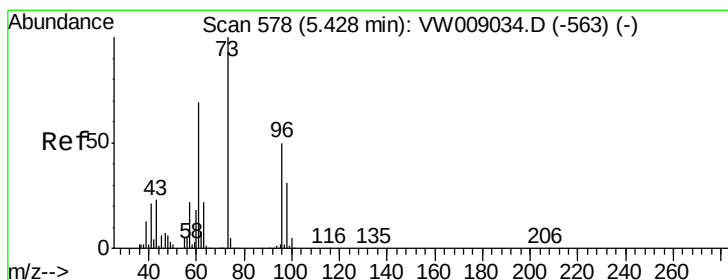
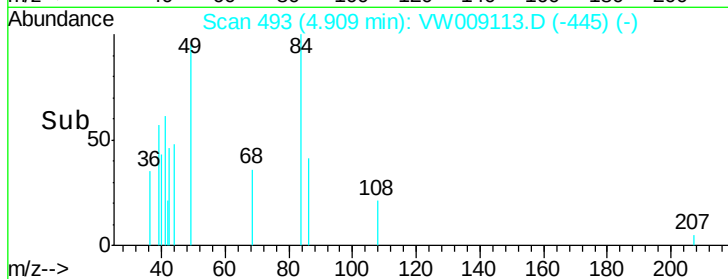
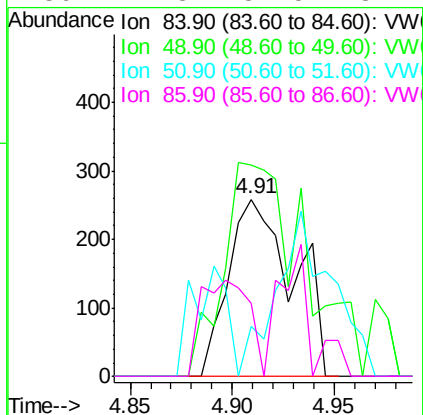
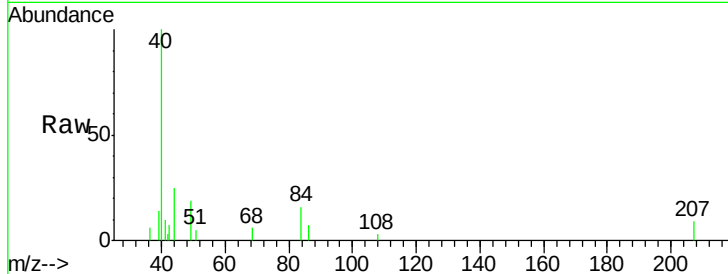




#20  
Methylene Chloride  
Concen: 7.099 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW009113.D  
Acq: 12 Mar 2019 04:51

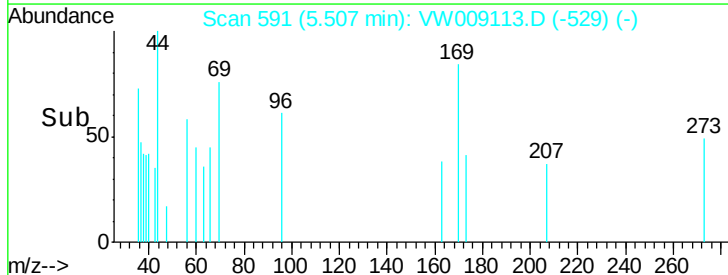
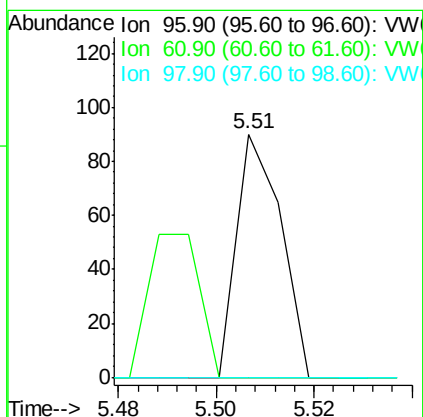
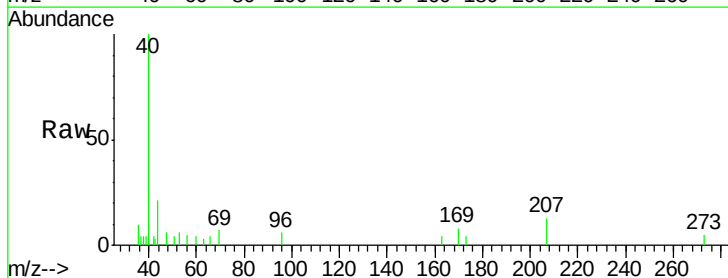
Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-7B-G-7-031119

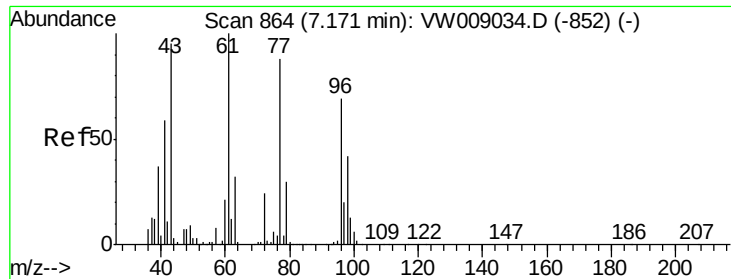
Tot Ion: 84 Resp: 576  
Ion Ratio Lower Upper  
84 100  
49 119.3 102.4 153.6  
51 0.0 31.6 47.4#  
86 41.3 54.5 81.7#



#21  
trans-1,2-Dichloroethene  
Concen: 1.197 ug/l  
RT: 5.51 min Scan# 591  
Delta R.T. 0.08 min  
Lab File: VW009113.D  
Acq: 12 Mar 2019 04:51

Tgt Ion: 96 Resp: 57  
Ion Ratio Lower Upper  
96 100  
61 0.0 111.0 166.6#  
98 0.0 49.4 74.0#





#25

2-Butanone

Concen: 5.835 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

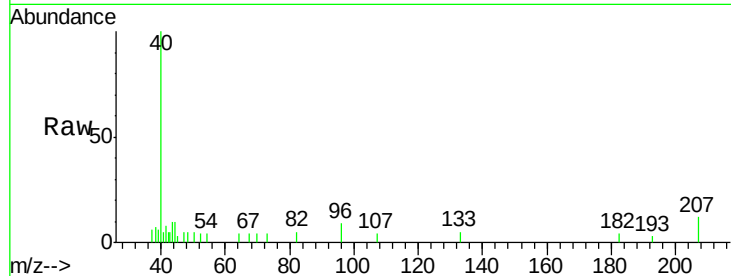
SUP-7B-G-7-031119

Tot Ion: 43 Resp: 84

Ion Ratio Lower Upper

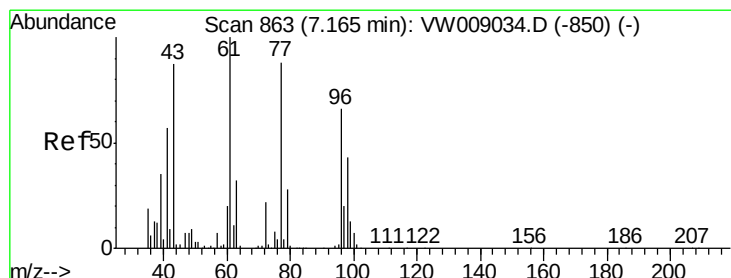
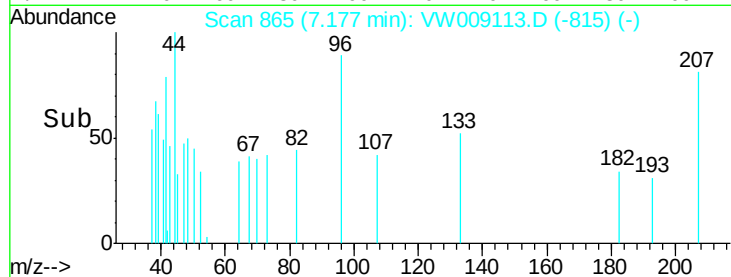
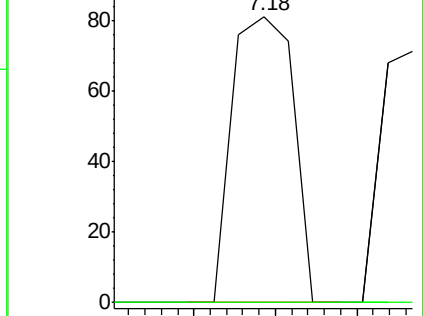
43 100

72 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#27

cis-1,2-Dichloroethene

Concen: 2.132 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

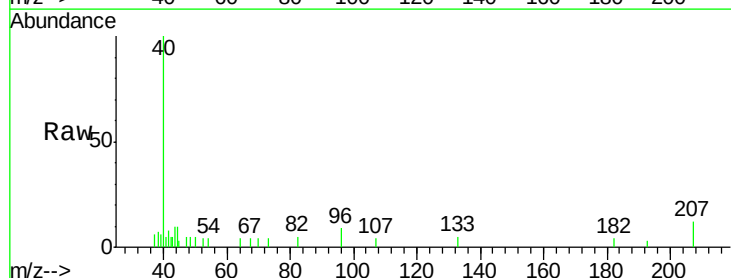
Tgt Ion: 96 Resp: 109

Ion Ratio Lower Upper

96 100

61 18.3 0.0 299.8

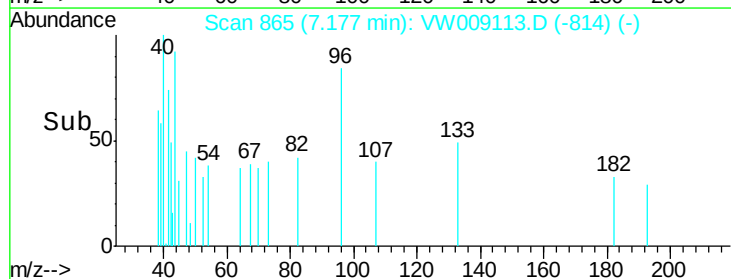
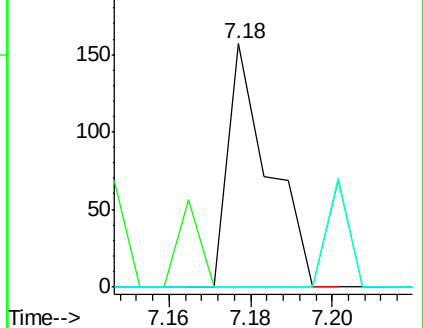
98 0.0 0.0 127.2

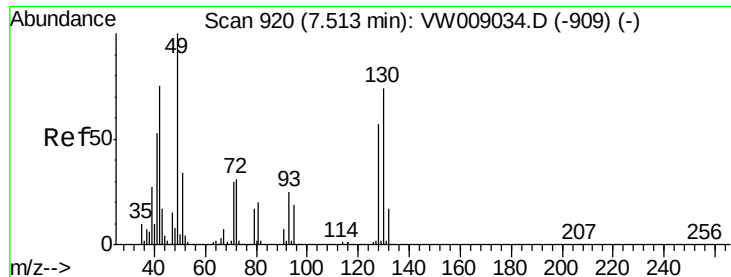


Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW





#28

Bromochloromethane

Concen: 1.921 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.04 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

SUP-7B-G-7-031119

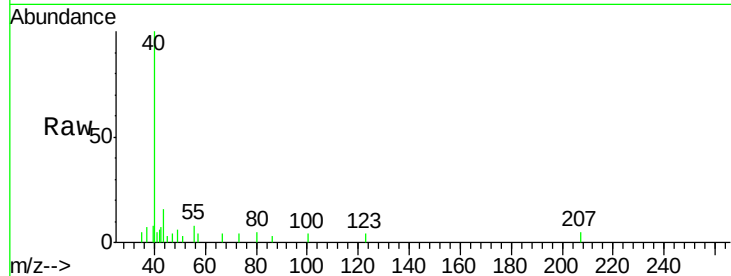
Tot Ion: 49 Resp: 67

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.6

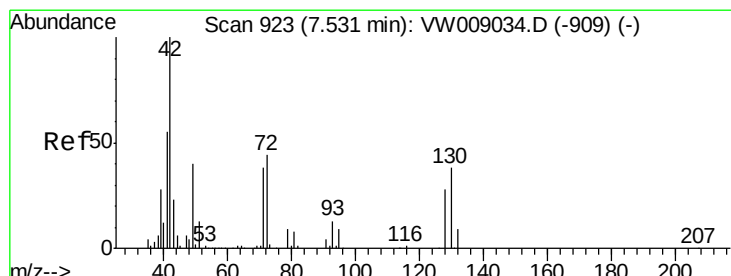
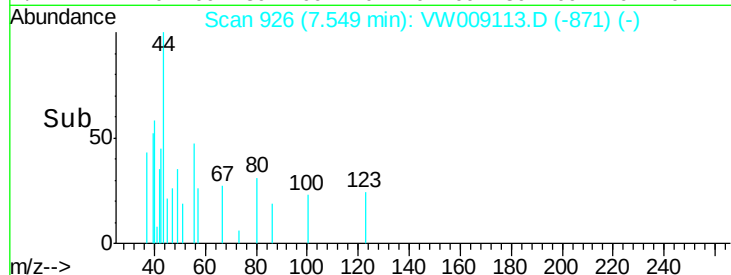
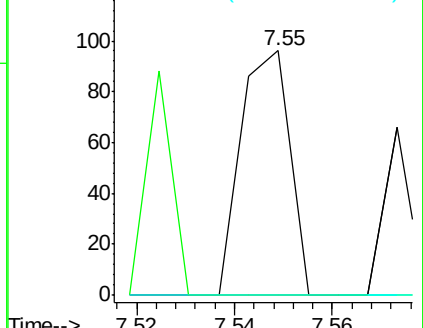
130 0.0 60.4 90.6#



Abundance Ion 48.90 (48.60 to 49.60): VW

Ion 128.80 (128.50 to 129.50): VW

Ion 129.80 (129.50 to 130.50): VW



#29

Tetrahydrofuran

Concen: 29.212 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

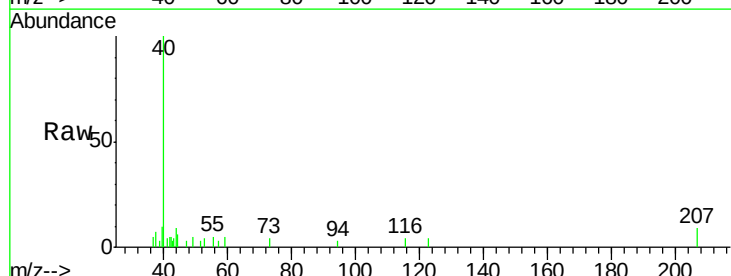
Tgt Ion: 42 Resp: 265

Ion Ratio Lower Upper

42 100

72 0.0 32.2 48.4#

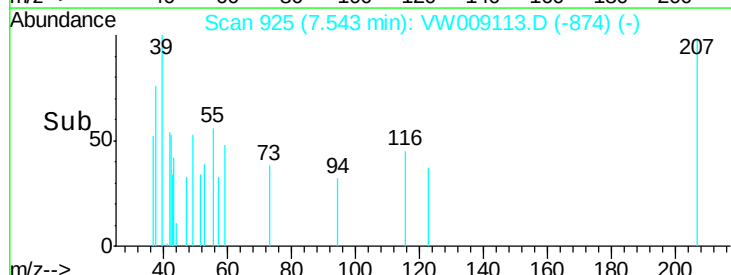
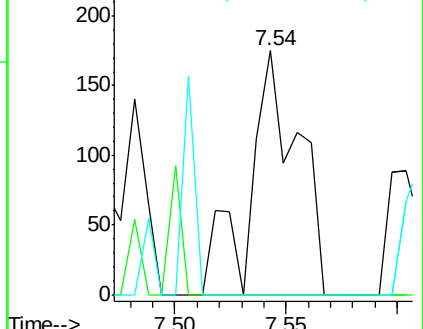
71 0.0 30.7 46.1#

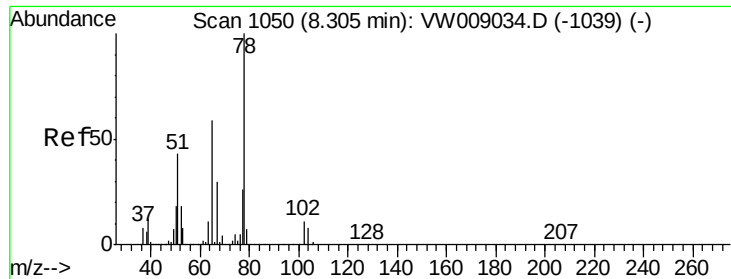


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

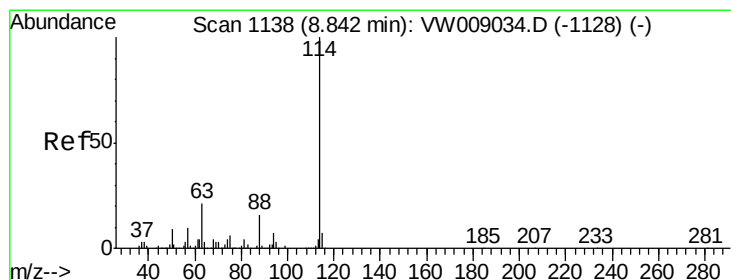
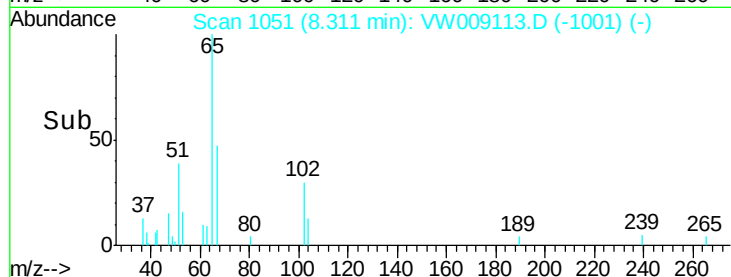
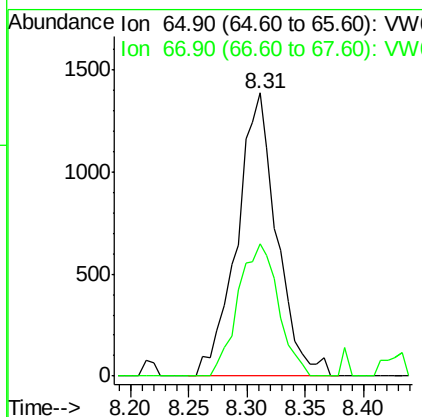
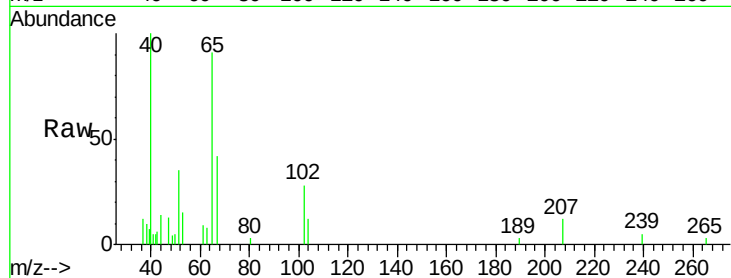




#33  
 1,2-Dichloroethane-d4  
 Concen: 71.643 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.01 min  
 Lab File: VW009113.D  
 Acq: 12 Mar 2019 04:51

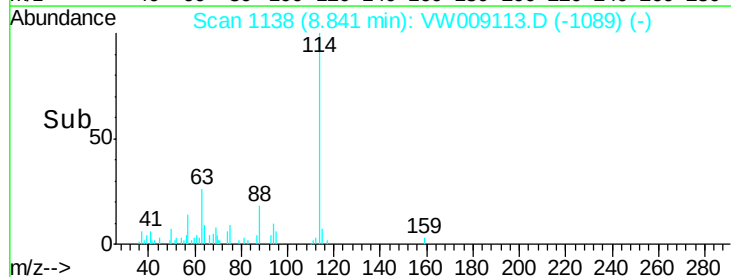
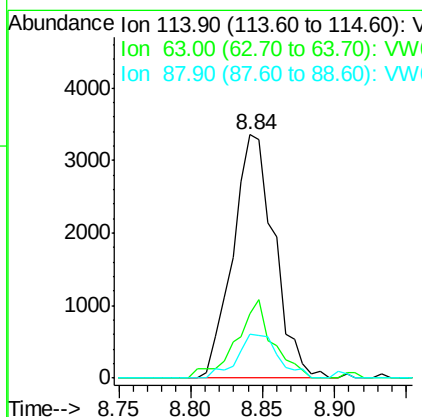
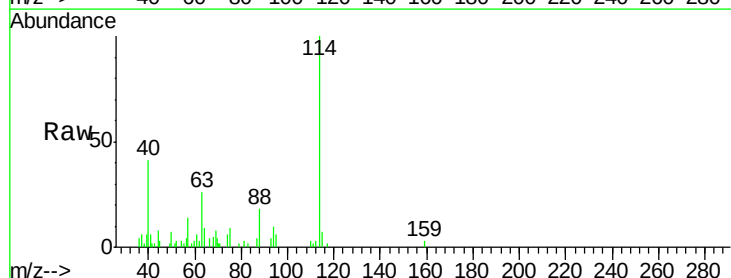
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-7B-G-7-031119

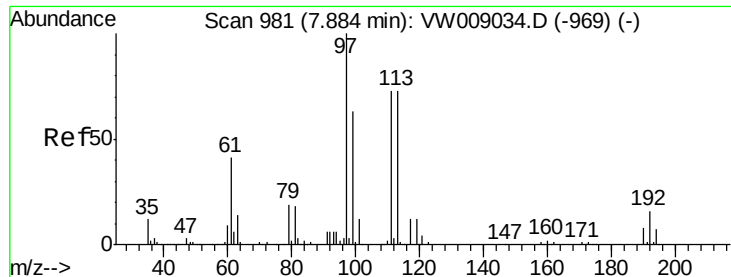
Tot Ion: 65 Resp: 3307  
 Ion Ratio Lower Upper  
 65 100  
 67 47.0 0.0 103.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW009113.D  
 Acq: 12 Mar 2019 04:51

Tgt Ion: 114 Resp: 6727  
 Ion Ratio Lower Upper  
 114 100  
 63 26.4 0.0 41.2  
 88 18.0 0.0 31.2





#35

Dibromofluoromethane

Concen: 60.342 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

SUP-7B-G-7-031119

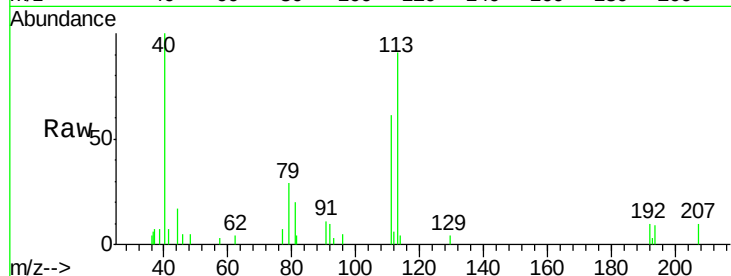
Tot Ion:113 Resp: 2444

Ion Ratio Lower Upper

113 100

111 108.8 81.0 121.4

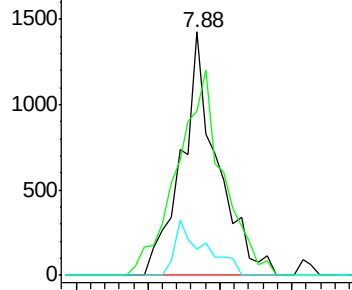
192 19.1 17.1 25.7



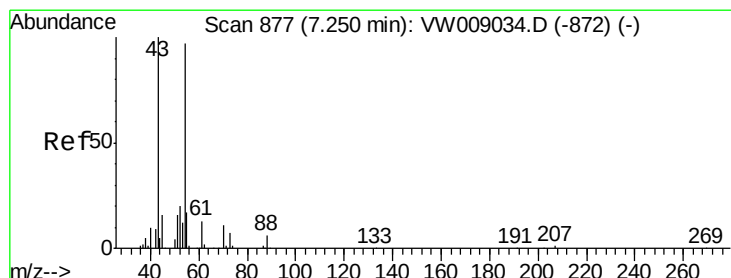
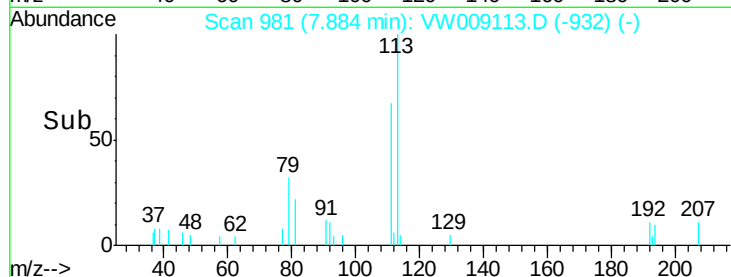
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time--> 7.80 7.85 7.90 7.95



#37

Ethyl Acetate

Concen: 3.904 ug/l

RT: 7.24 min Scan# 876

Delta R.T. -0.01 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

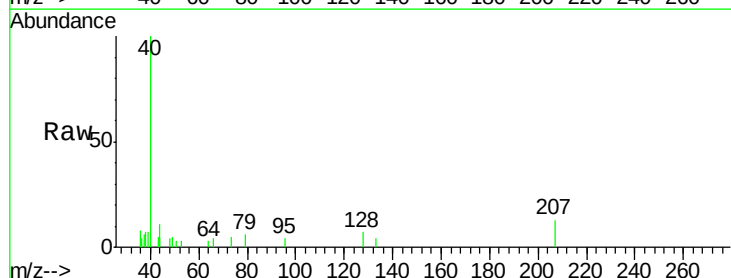
Tgt Ion: 43 Resp: 129

Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.6#

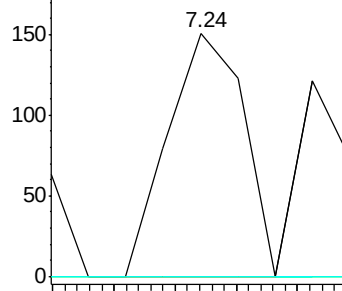
70 0.0 7.2 10.8#



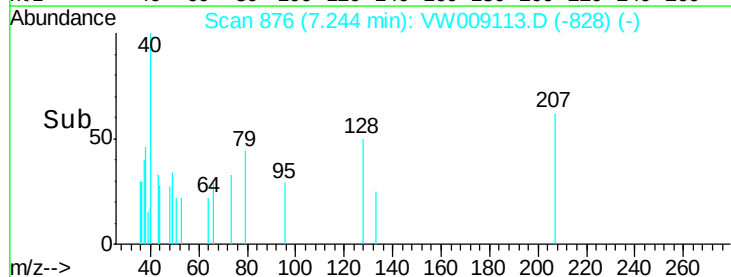
Abundance Ion 43.00 (42.70 to 43.70): VW

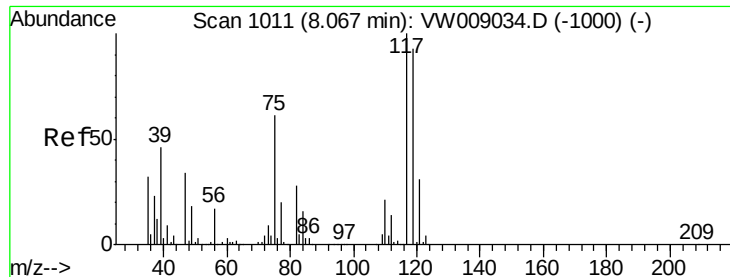
Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



Time--> 7.22 7.23 7.24 7.25 7.26





#38

Carbon Tetrachloride

Concen: 10.751 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

SUP-7B-G-7-031119

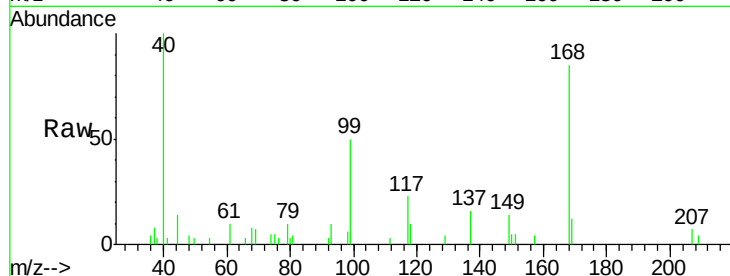
Tot Ion:117 Resp: 781

Ion Ratio Lower Upper

117 100

119 0.0 74.6 112.0#

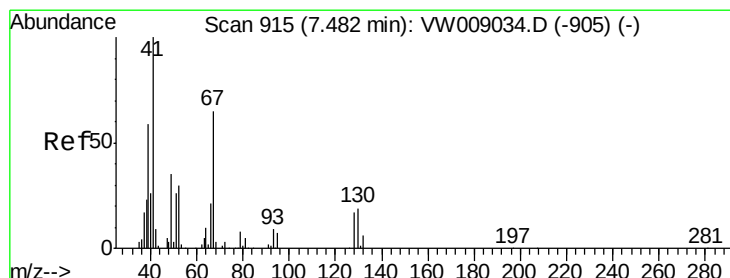
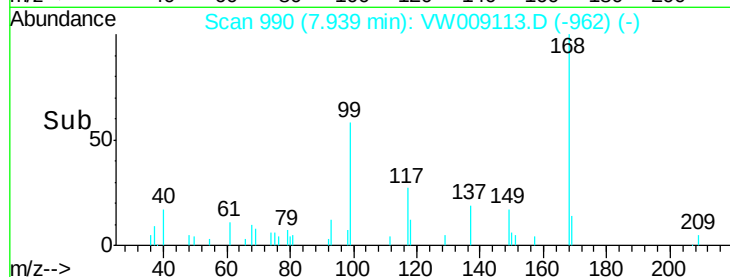
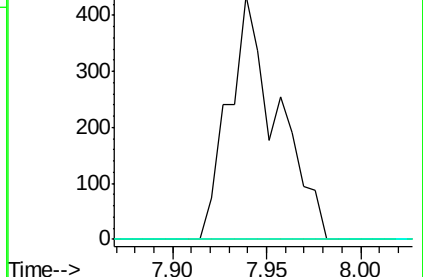
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 20.603 ug/l

RT: 7.50 min Scan# 918

Delta R.T. 0.02 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Tgt Ion: 41 Resp: 378

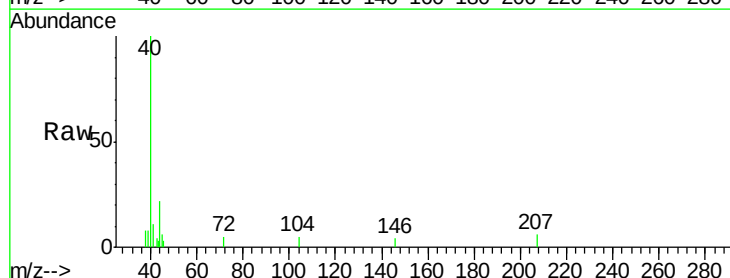
Ion Ratio Lower Upper

41 100

39 30.4 53.6 80.4#

67 0.0 57.6 86.4#

52 0.0 26.0 39.0#

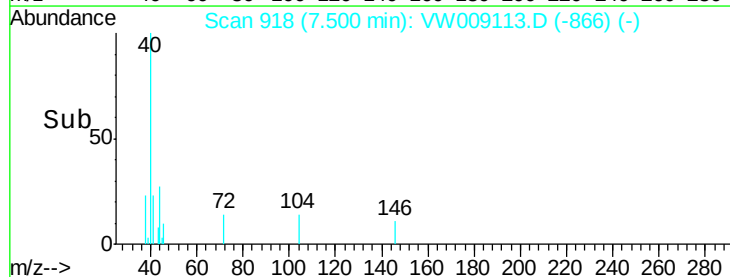
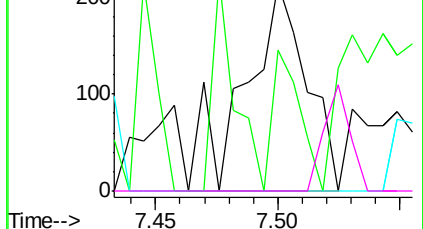


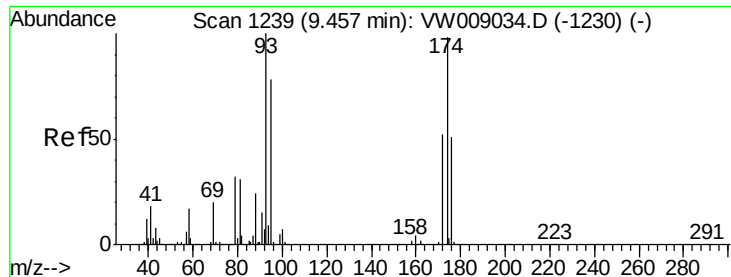
Abundance Ion 41.00 (40.70 to 41.70): VW

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





#46

Dibromomethane

Concen: 1.168 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.12 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

SUP-7B-G-7-031119

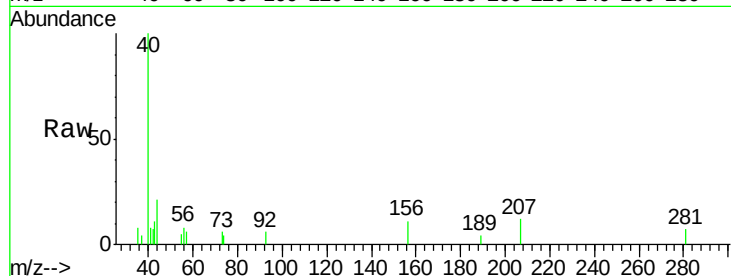
Tot Ion: 93 Resp: 30

Ion Ratio Lower Upper

93 100

95 0.0 65.0 97.6#

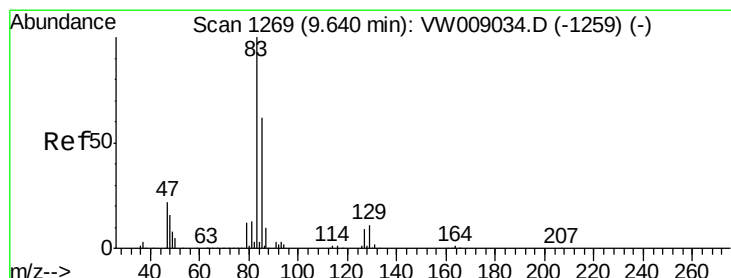
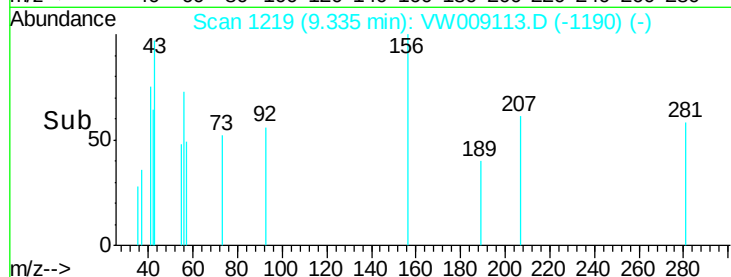
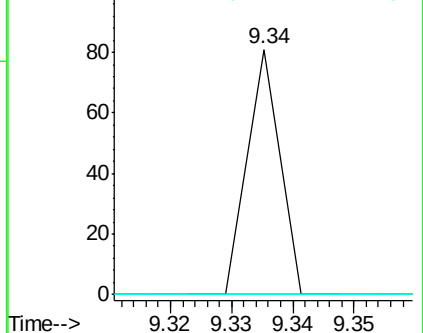
174 0.0 81.8 122.6#



Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V



#47

Bromodichloromethane

Concen: 1.784 ug/l

RT: 9.56 min Scan# 1256

Delta R.T. -0.08 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

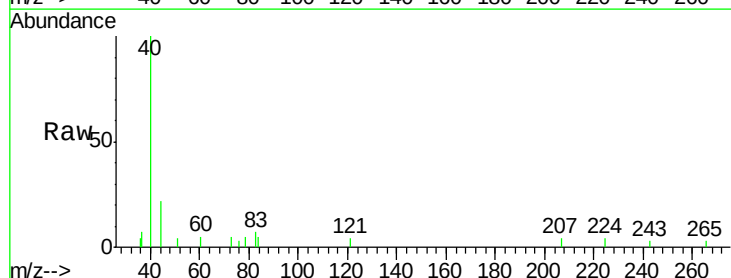
Tgt Ion: 83 Resp: 116

Ion Ratio Lower Upper

83 100

85 0.0 49.9 74.9#

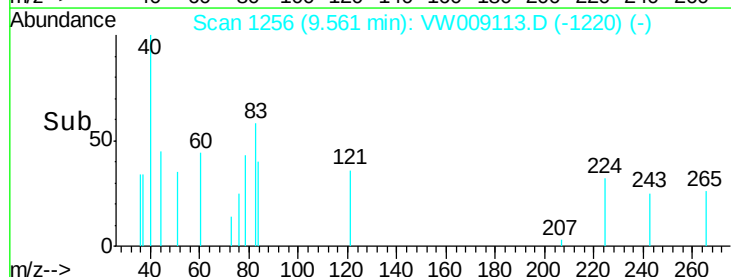
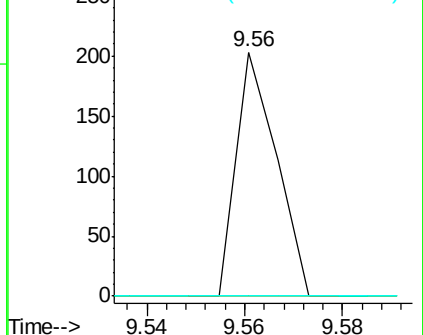
127 0.0 7.1 10.7#

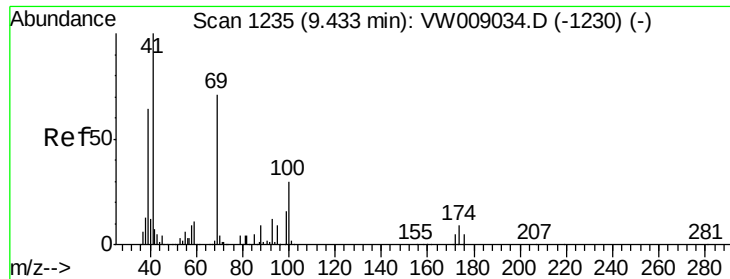


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V





#48

Methyl methacrylate

Concen: 8.237 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.03 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

SUP-7B-G-7-031119

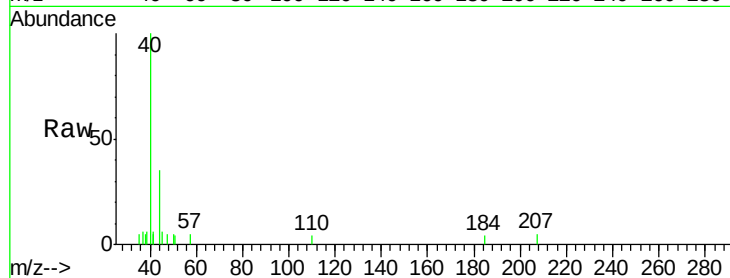
Tot Ion: 41 Resp: 236

Ion Ratio Lower Upper

41 100

69 0.0 59.1 88.7#

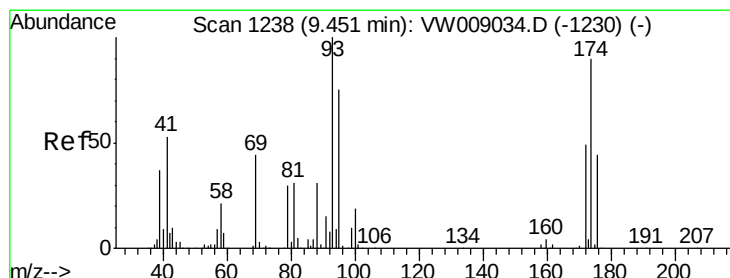
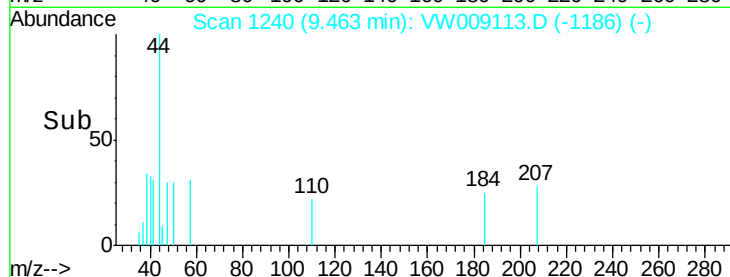
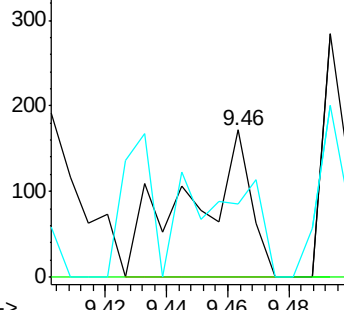
39 74.2 48.9 73.3#



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: 157.703 ug/l

RT: 9.26 min Scan# 1207

Delta R.T. -0.19 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

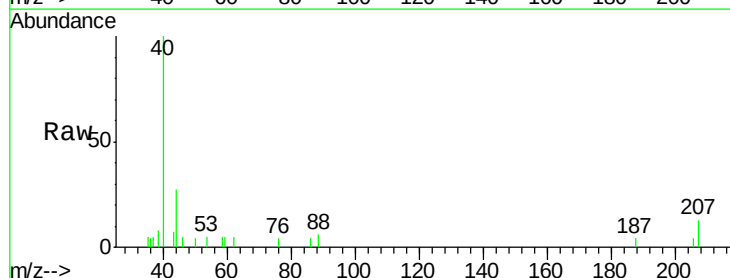
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 206.9 29.0 43.4#

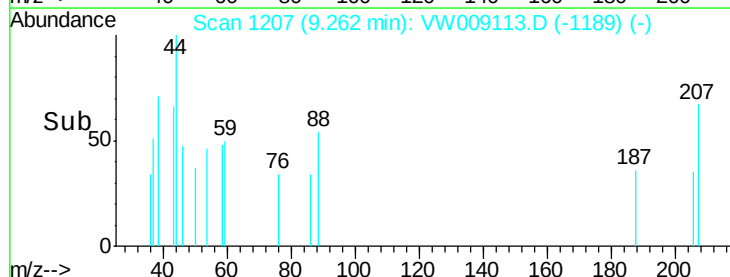
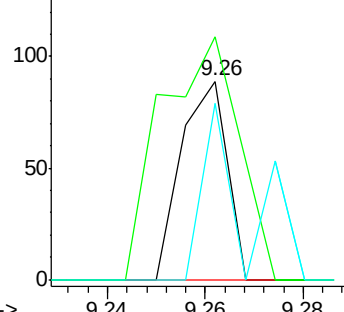
58 82.8 59.2 88.8



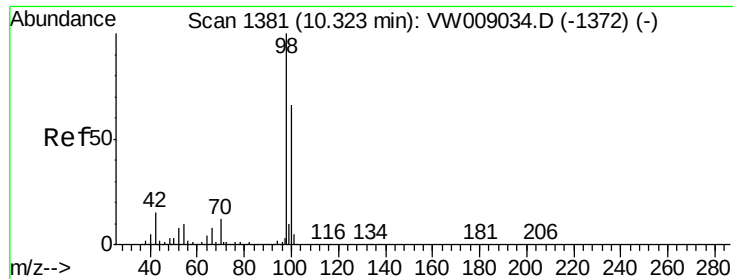
Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW







#50

Toluene-d8

Concen: 52.173 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

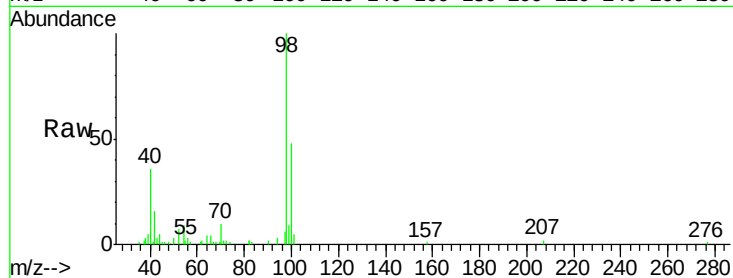
SUP-7B-G-7-031119

Tot Ion: 98 Resp: 8679

Ion Ratio Lower Upper

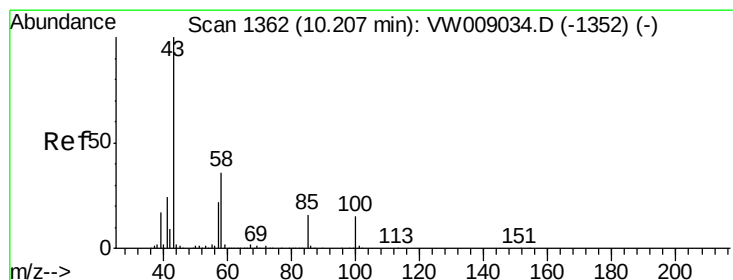
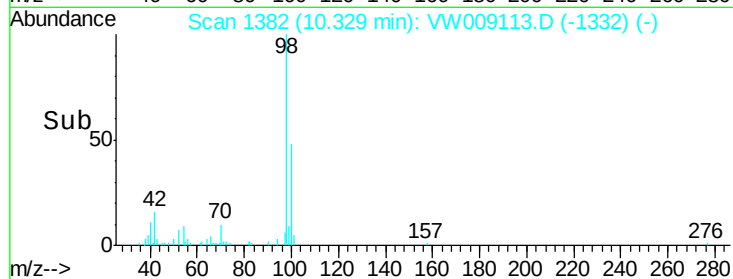
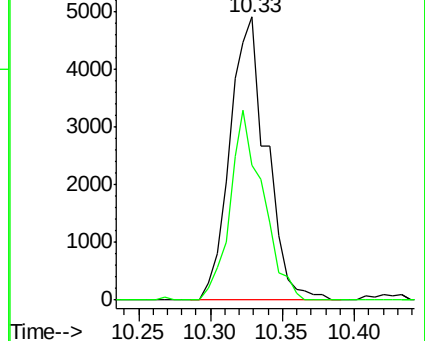
98 100

100 60.5 51.9 77.9



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: 7.555 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW009113.D

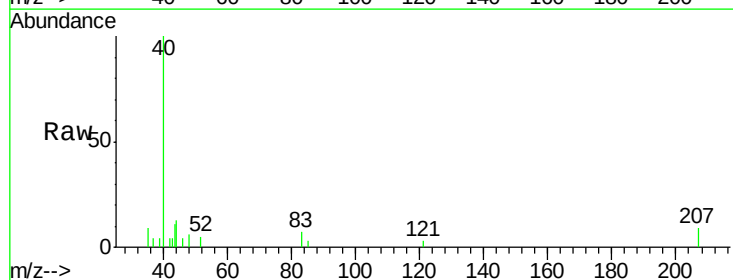
Acq: 12 Mar 2019 04:51

Tgt Ion: 43 Resp: 236

Ion Ratio Lower Upper

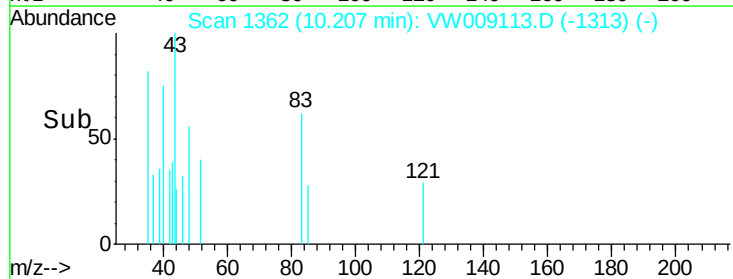
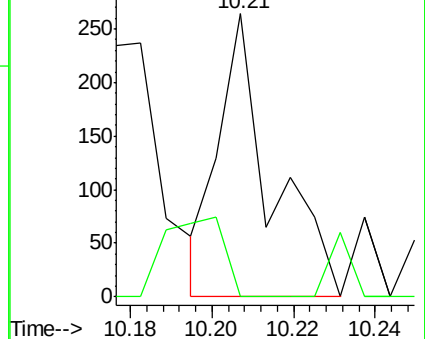
43 100

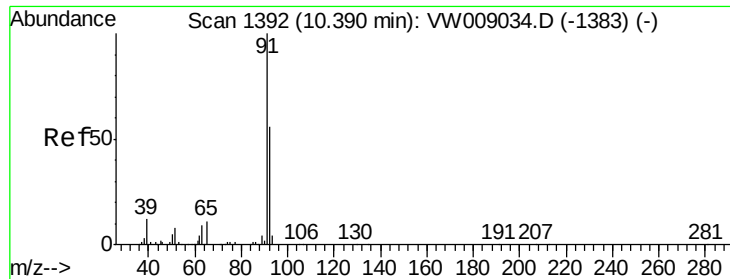
58 31.8 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 3.942 ug/l

RT: 10.40 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

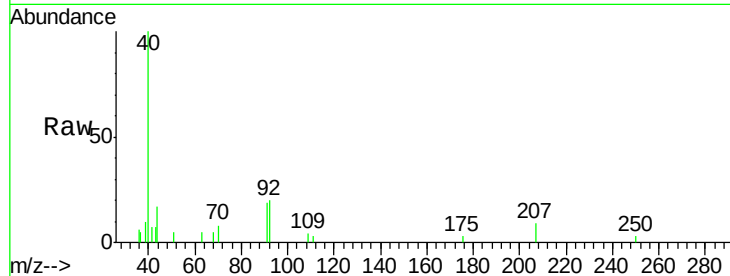
SUP-7B-G-7-031119

Tot Ion: 92 Resp: 502

Ion Ratio Lower Upper

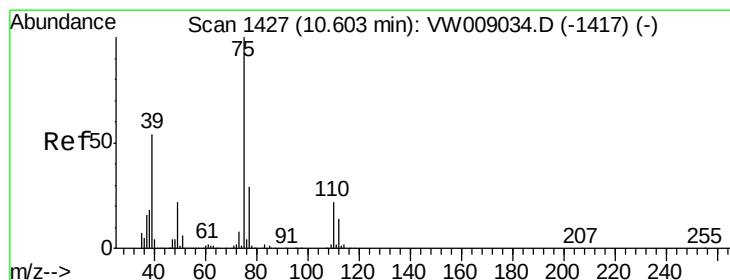
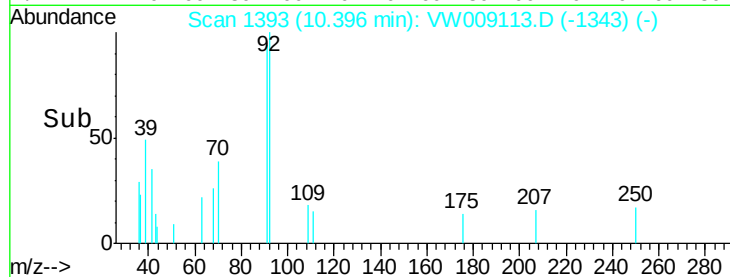
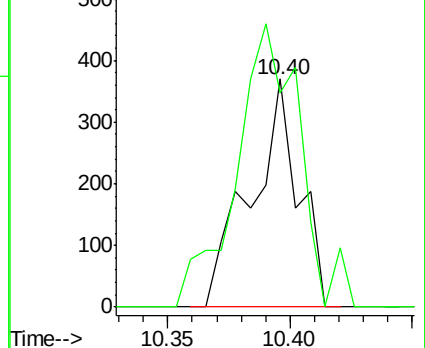
92 100

91 164.3 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#53

t-1,3-Dichloropropene

Concen: 1.151 ug/l

RT: 10.55 min Scan# 1419

Delta R.T. -0.05 min

Lab File: VW009113.D

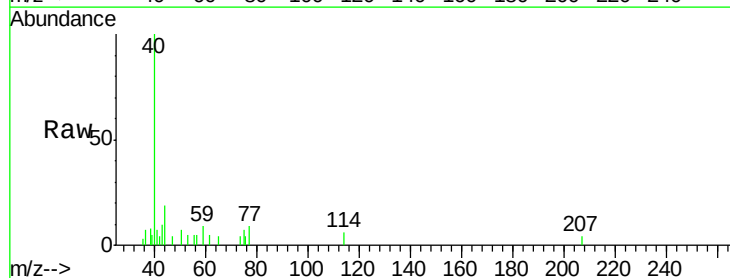
Acq: 12 Mar 2019 04:51

Tgt Ion: 75 Resp: 74

Ion Ratio Lower Upper

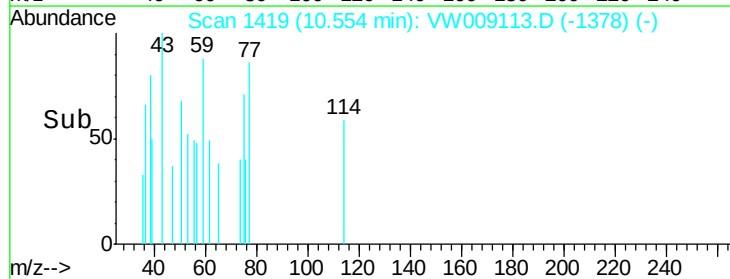
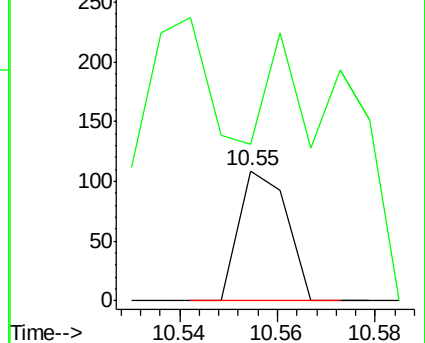
75 100

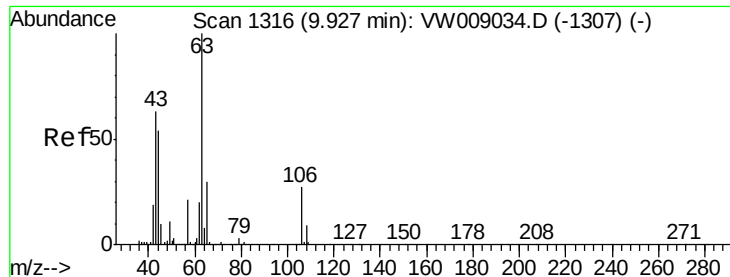
77 0.0 23.6 35.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

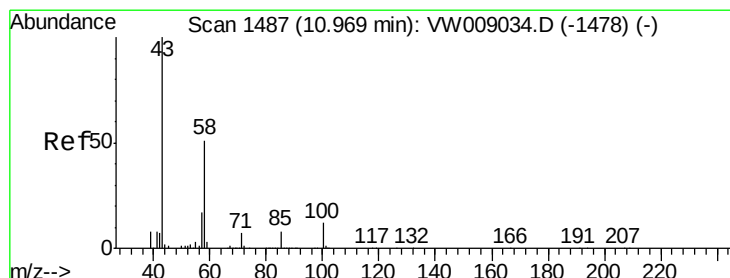
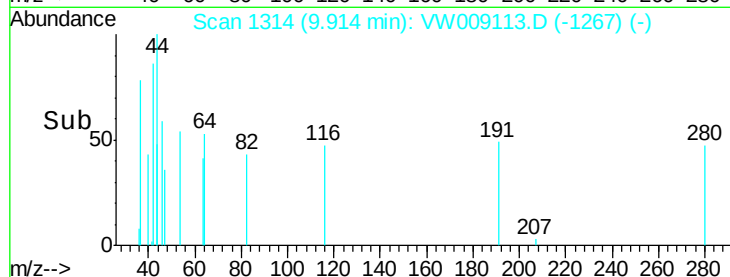
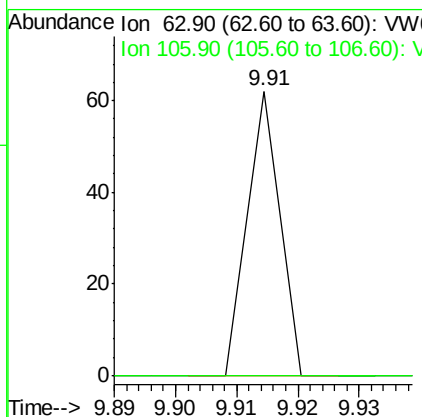
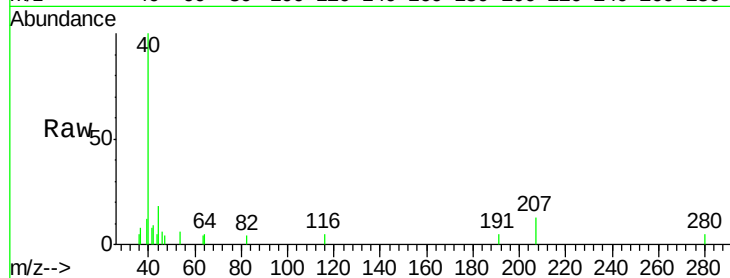




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 1.027 ug/l  
 RT: 9.91 min Scan# 1314  
 Delta R.T. -0.01 min  
 Lab File: VW009113.D  
 Acq: 12 Mar 2019 04:51

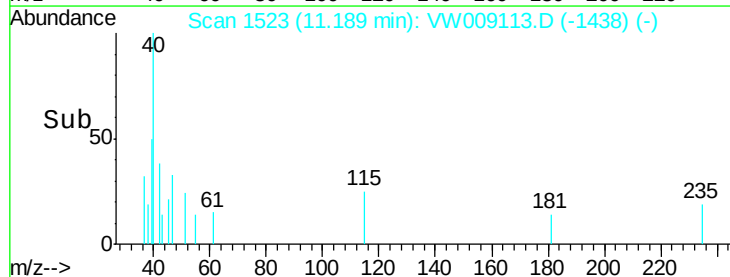
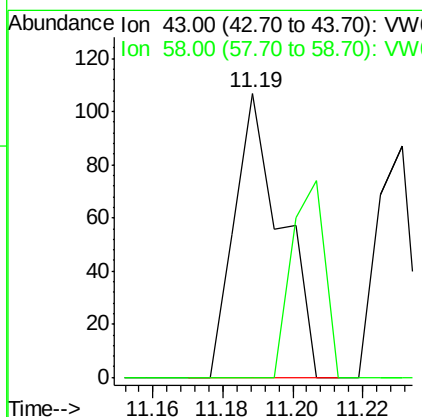
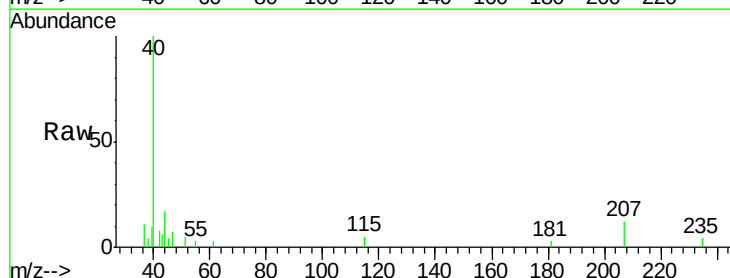
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-7B-G-7-031119

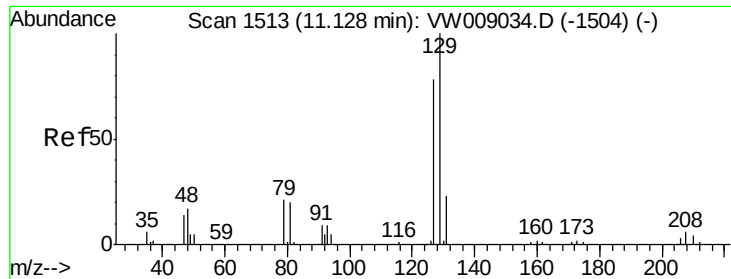
Tot Ion: 63 Resp: 23  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 23.0 34.6#



#59  
 2-Hexanone  
 Concen: 4.553 ug/l  
 RT: 11.19 min Scan# 1523  
 Delta R.T. 0.22 min  
 Lab File: VW009113.D  
 Acq: 12 Mar 2019 04:51

Tgt Ion: 43 Resp: 100  
 Ion Ratio Lower Upper  
 43 100  
 58 49.0 25.3 75.9





#60

Dibromochloromethane

Concen: 1.462 ug/l

RT: 11.10 min Scan# 1508

Delta R.T. -0.03 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

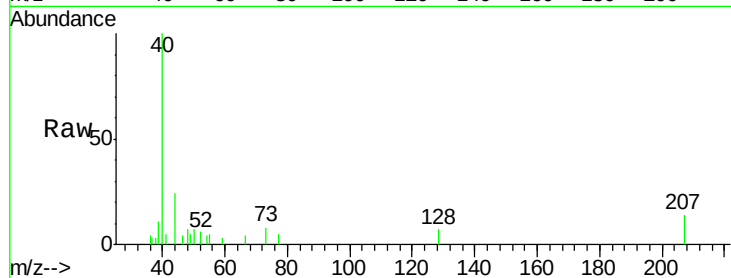
SUP-7B-G-7-031119

Tot Ion:129 Resp: 63

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

11.10

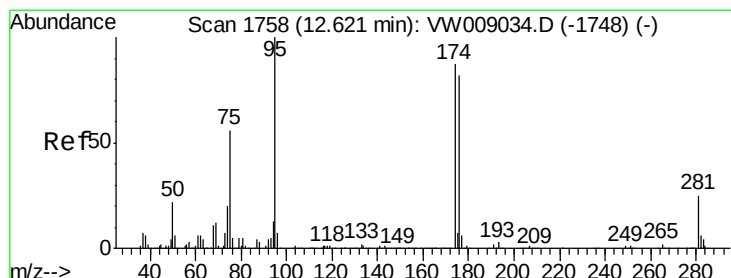
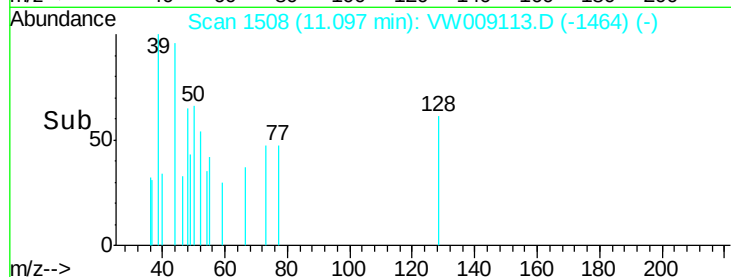
100

50

0

11.08 11.10

Time-->



#62

4-Bromofluorobenzene

Concen: 19.730 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.01 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

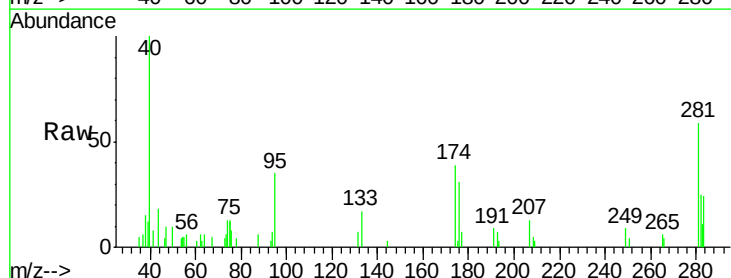
Tgt Ion: 95 Resp: 1292

Ion Ratio Lower Upper

95 100

174 90.2 0.0 167.0

176 70.9 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

1000

800

600

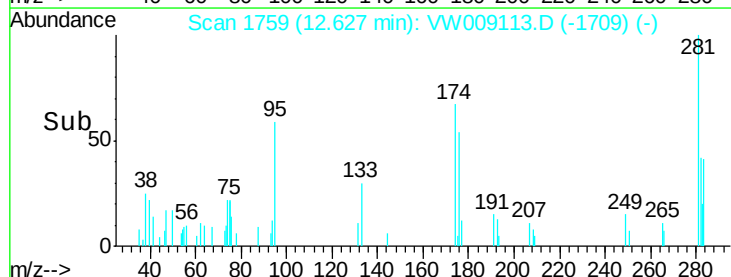
400

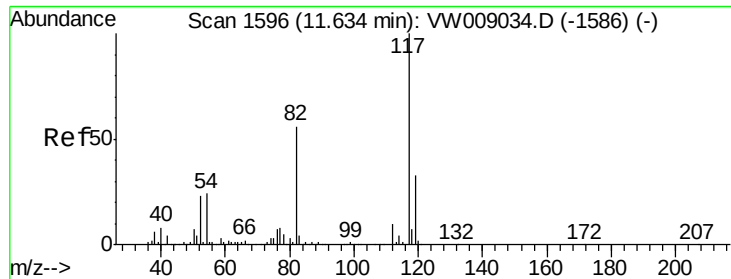
200

0

12.55 12.60 12.63

Time-->

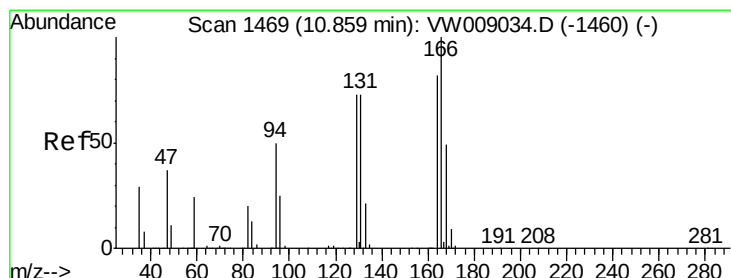
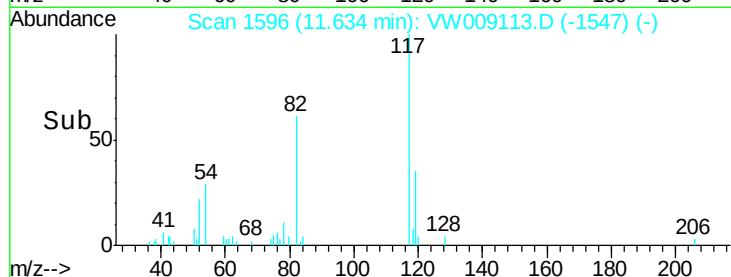
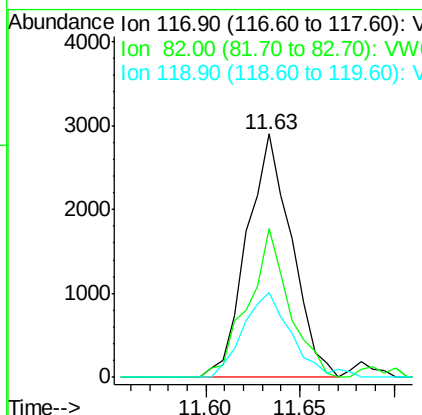
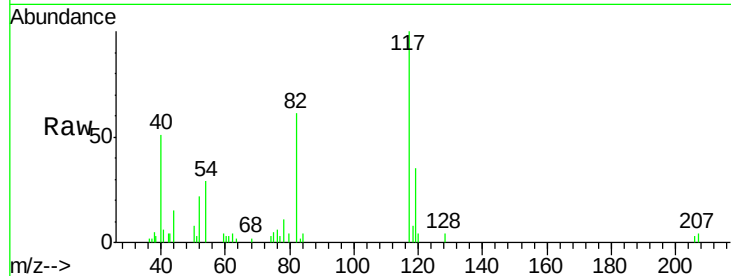




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW009113.D  
Acq: 12 Mar 2019 04:51

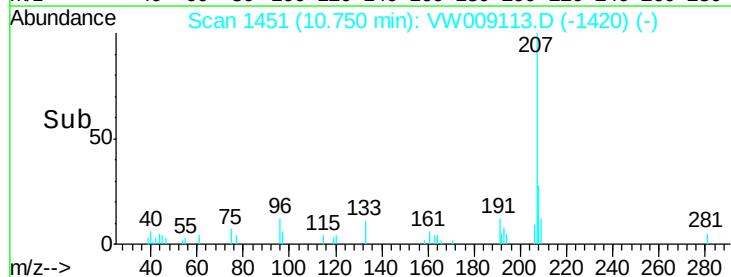
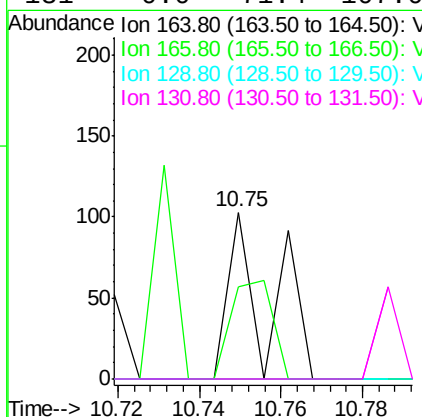
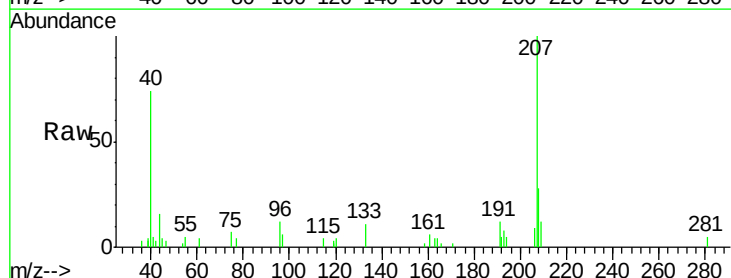
Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-7B-G-7-031119

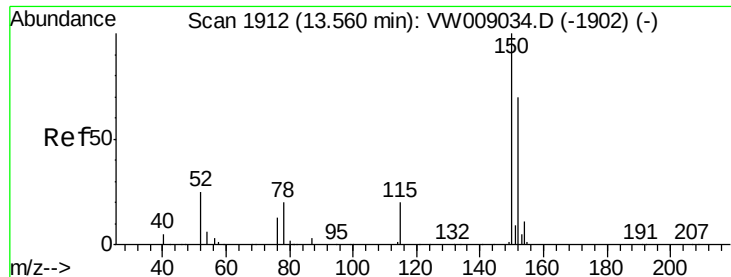
Tot Ion:117 Resp: 4773  
Ion Ratio Lower Upper  
117 100  
82 61.0 45.0 67.6  
119 34.7 26.6 39.8



#64  
Tetrachloroethene  
Concen: 2.063 ug/l  
RT: 10.75 min Scan# 1451  
Delta R.T. -0.11 min  
Lab File: VW009113.D  
Acq: 12 Mar 2019 04:51

Tgt Ion:164 Resp: 71  
Ion Ratio Lower Upper  
164 100  
166 55.3 97.8 146.6#  
129 0.0 71.6 107.4#  
131 0.0 71.4 107.0#

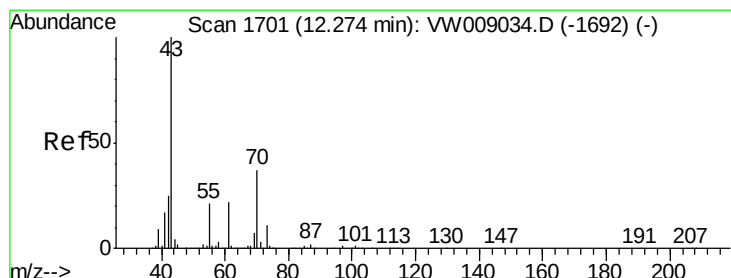
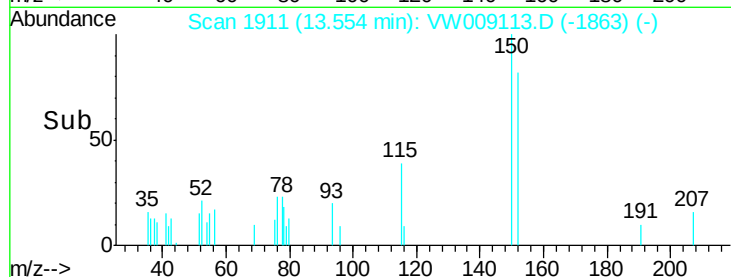
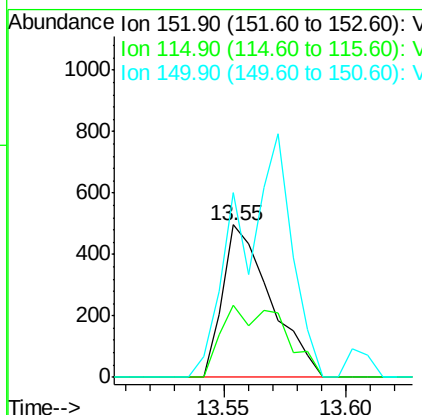
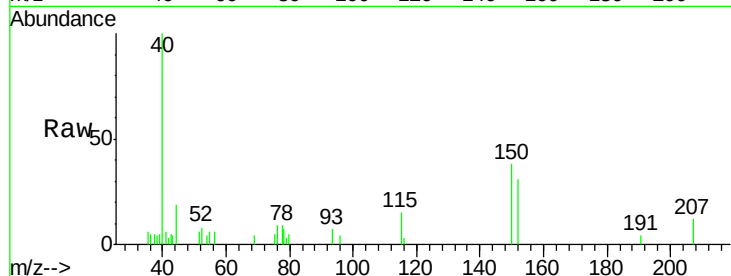




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.55 min Scan# 1911  
 Delta R.T. -0.01 min  
 Lab File: VW009113.D  
 Acq: 12 Mar 2019 04:51

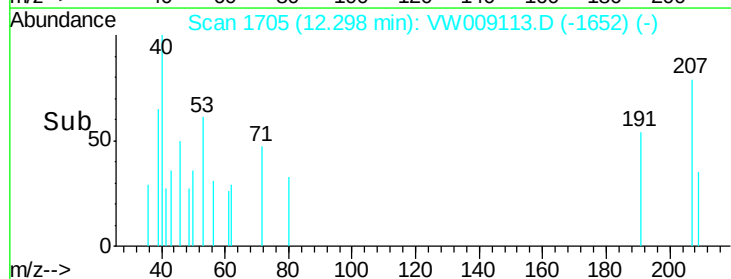
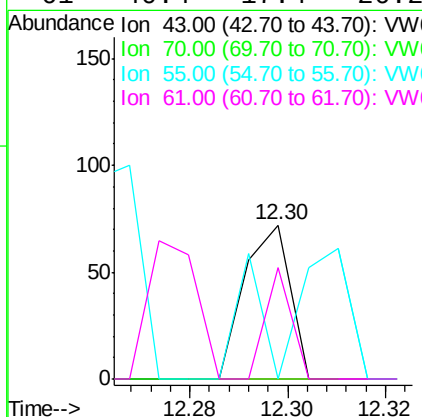
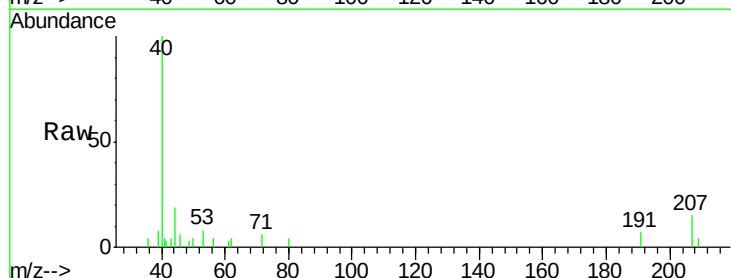
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-7B-G-7-031119

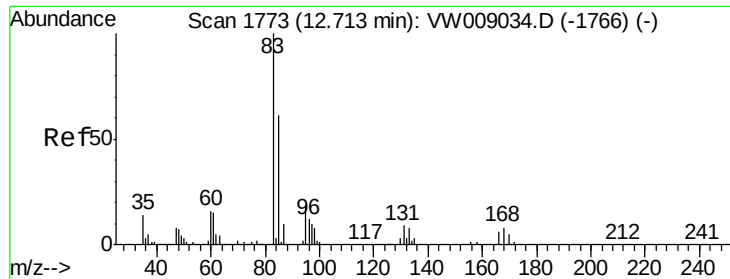
Tot Ion:152 Resp: 679  
 Ion Ratio Lower Upper  
 152 100  
 115 61.0 28.9 86.7  
 150 174.7 0.0 349.2



#74  
 N-ethyl acetate  
 Concen: 4.083 ug/l  
 RT: 12.30 min Scan# 1705  
 Delta R.T. 0.02 min  
 Lab File: VW009113.D  
 Acq: 12 Mar 2019 04:51

Tgt Ion: 43 Resp: 47  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 30.8 46.2#  
 55 134.0 17.8 26.8#  
 61 40.4 17.4 26.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 8.344 ug/l

RT: 12.78 min Scan# 1784

Delta R.T. 0.07 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

SUP-7B-G-7-031119

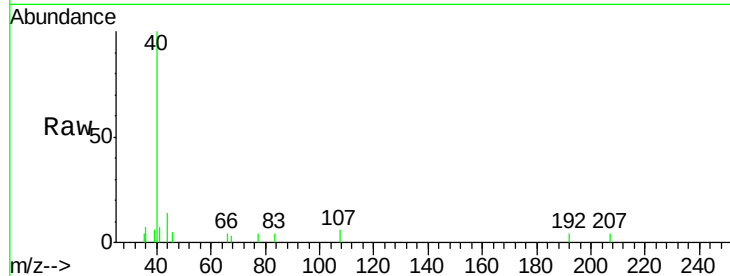
Tot Ion: 83 Resp: 64

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

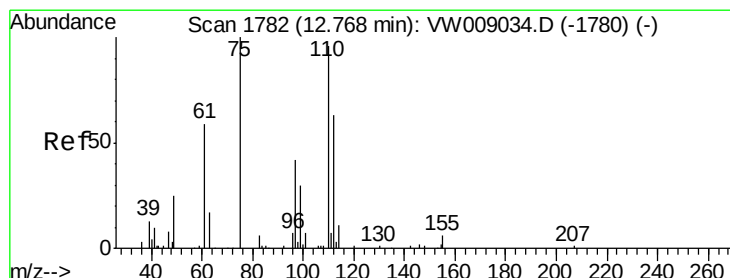
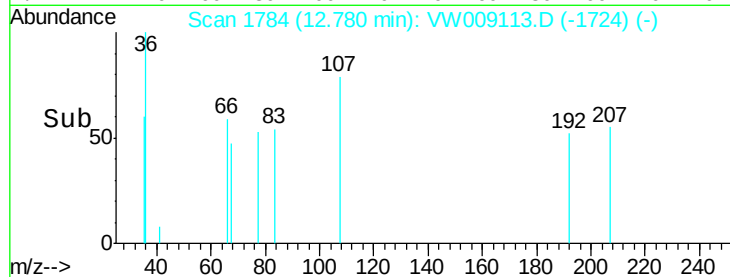
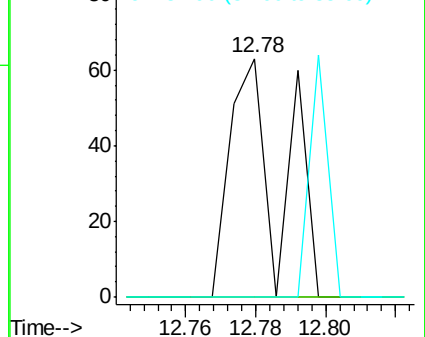
85 35.9 31.7 95.1



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 4.660 ug/l

RT: 12.73 min Scan# 1776

Delta R.T. -0.04 min

Lab File: VW009113.D

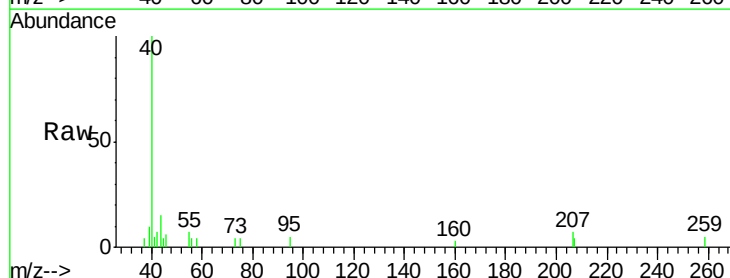
Acq: 12 Mar 2019 04:51

Tgt Ion: 75 Resp: 25

Ion Ratio Lower Upper

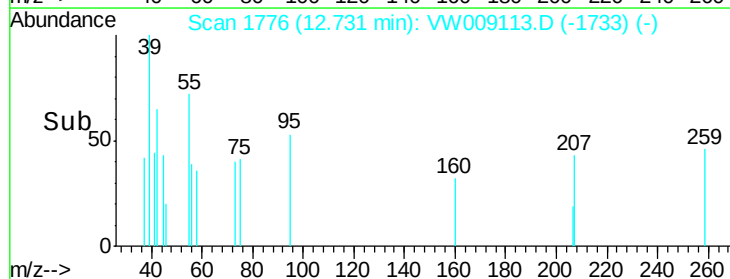
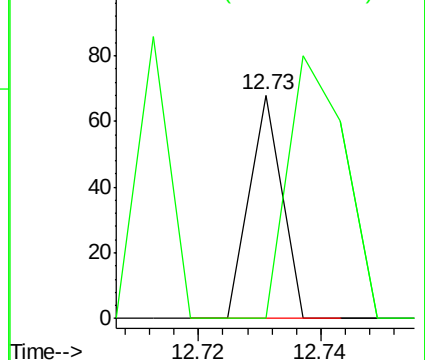
75 100

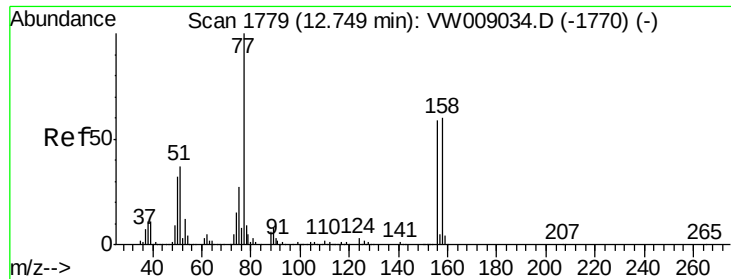
77 204.0 186.7 560.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 3.960 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. 0.20 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

SUP-7B-G-7-031119

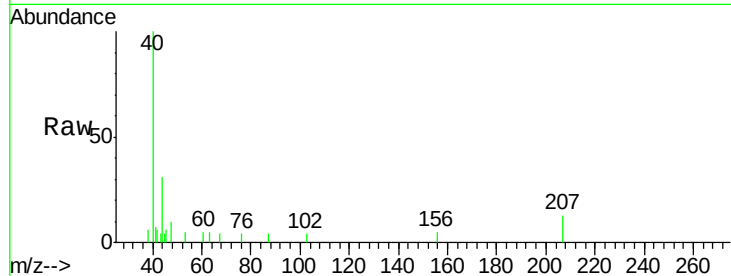
Tot Ion:156 Resp: 44

Ion Ratio Lower Upper

156 100

77 50.0 93.0 279.2#

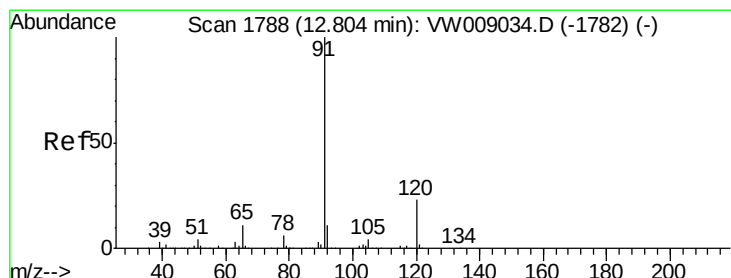
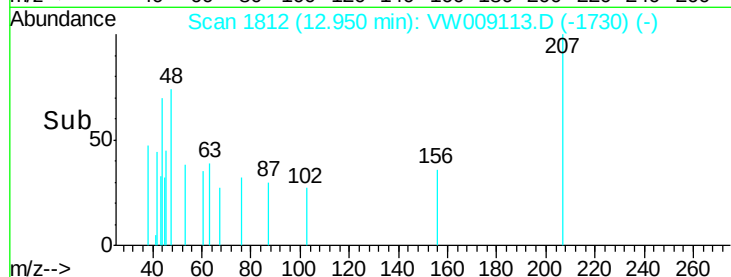
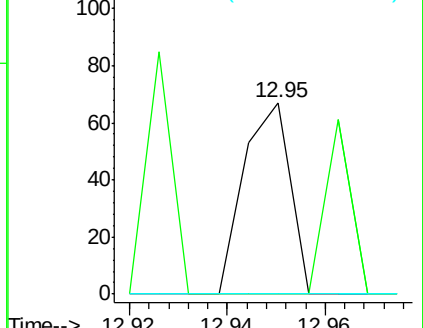
158 0.0 50.0 149.8#



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: 2.187 ug/l

RT: 12.82 min Scan# 1791

Delta R.T. 0.02 min

Lab File: VW009113.D

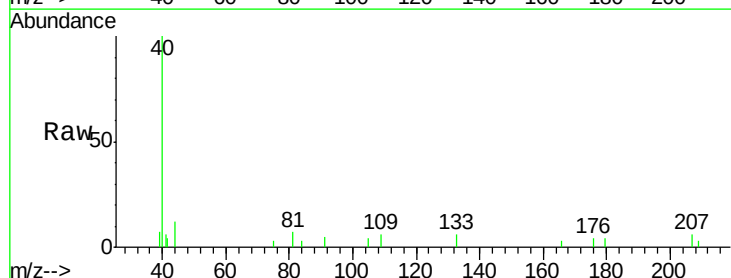
Acq: 12 Mar 2019 04:51

Tgt Ion: 91 Resp: 131

Ion Ratio Lower Upper

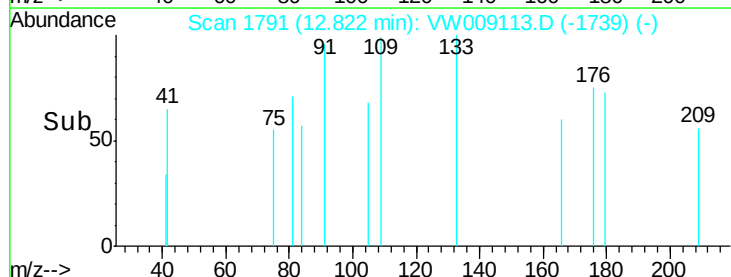
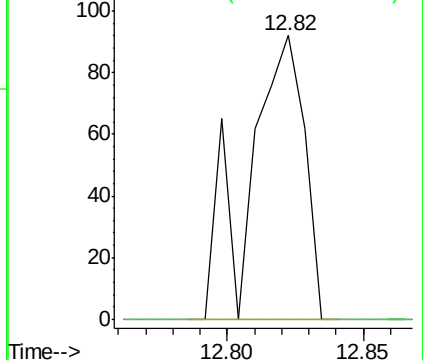
91 100

120 0.0 11.4 34.2#

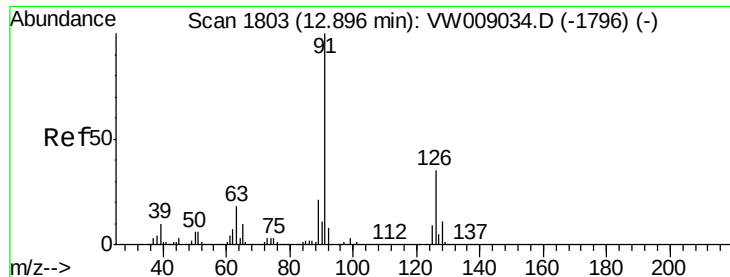


Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V







#79

2-Chlorotoluene

Concen: 3.893 ug/l

RT: 12.82 min Scan# 1791

Delta R.T. -0.07 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

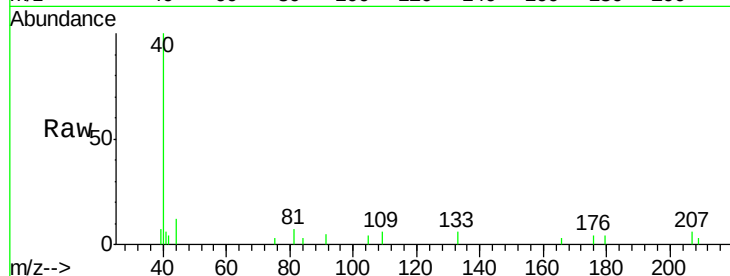
SUP-7B-G-7-031119

Tot Ion: 91 Resp: 131

Ion Ratio Lower Upper

91 100

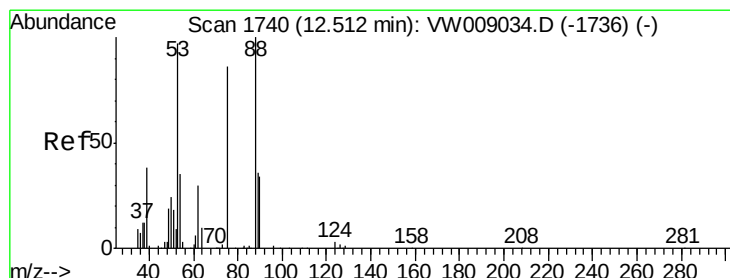
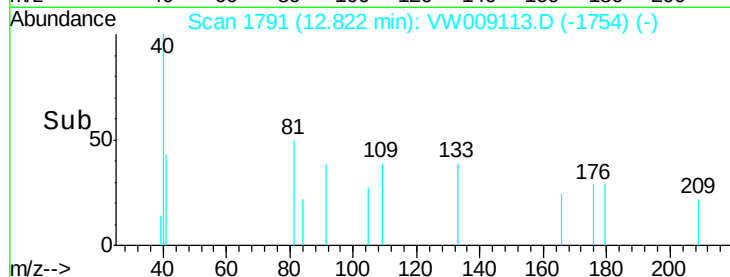
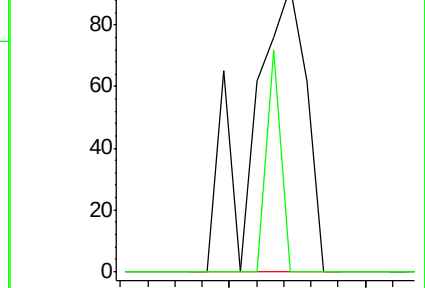
126 19.8 16.8 50.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

12.82



#81

trans-1,4-Dichloro-2-butene

Concen: 18.345 ug/l

RT: 12.49 min Scan# 1737

Delta R.T. -0.02 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

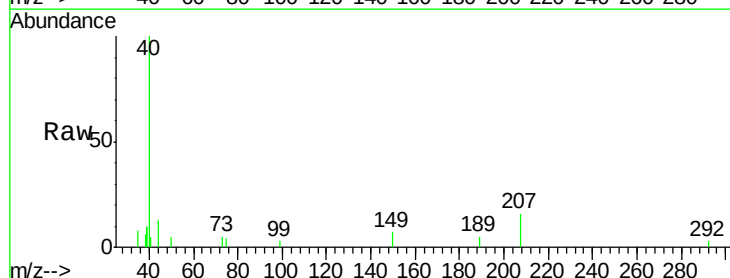
Tgt Ion: 75 Resp: 44

Ion Ratio Lower Upper

75 100

53 88.6 90.5 135.7#

89 0.0 37.5 56.3#

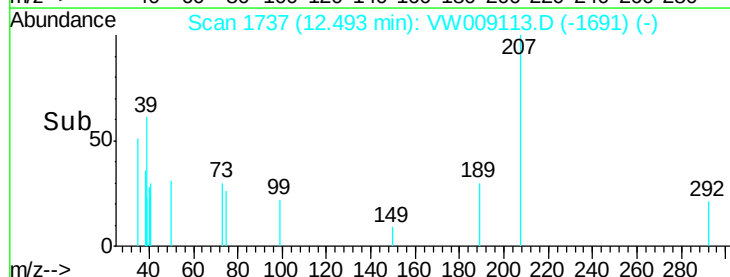
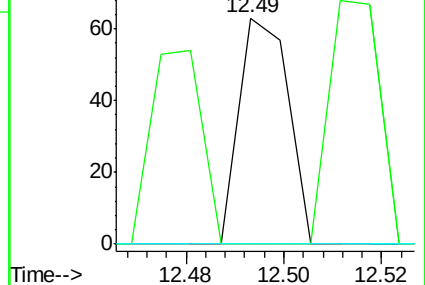


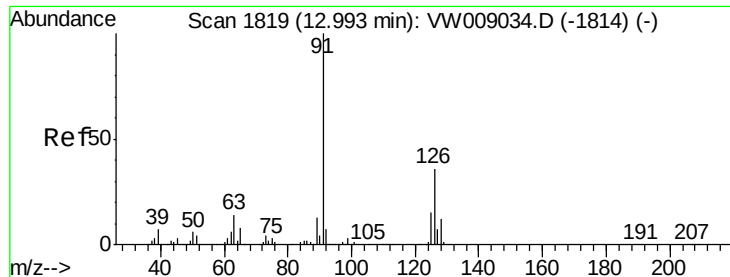
Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

12.49

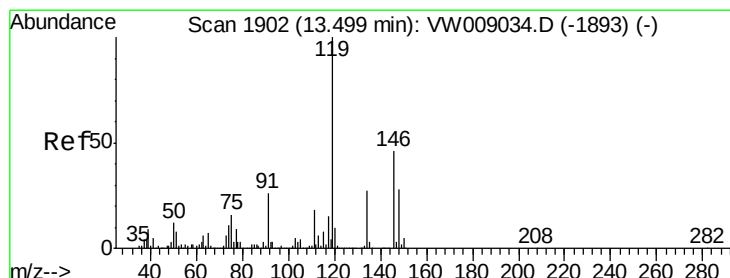
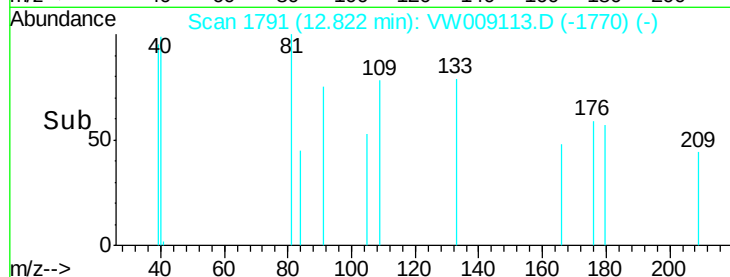
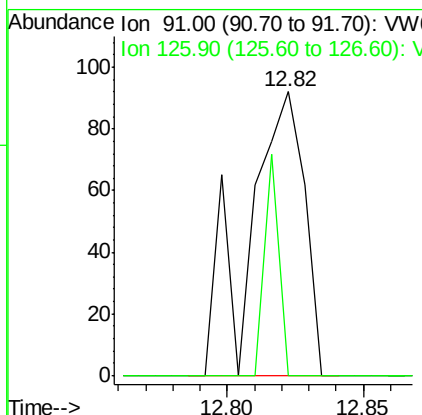
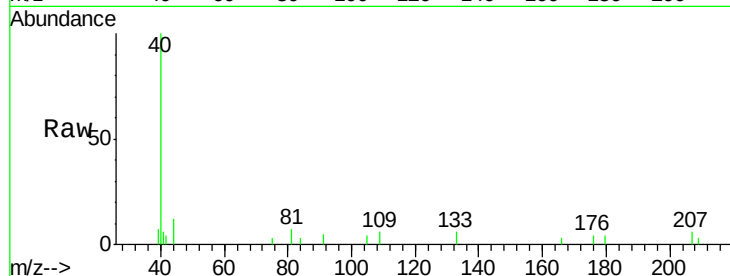




#82  
4-Chlorotoluene  
Concen: 3.652 ug/l  
RT: 12.82 min Scan# 1791  
Delta R.T. -0.17 min  
Lab File: VW009113.D  
Acq: 12 Mar 2019 04:51

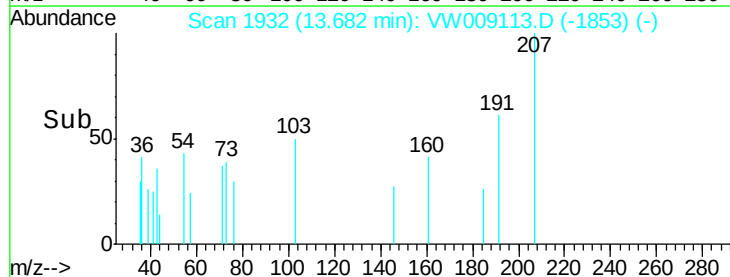
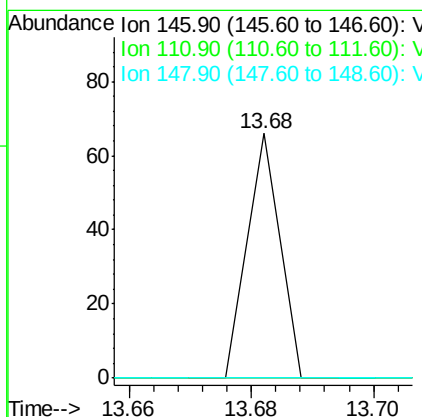
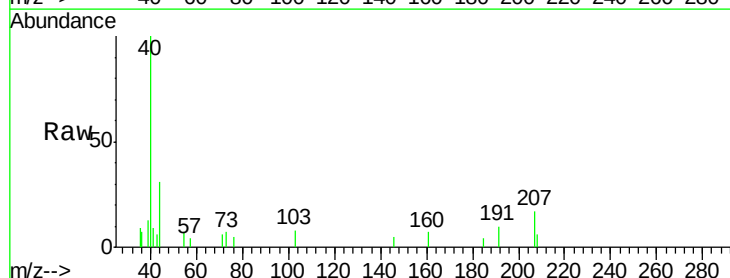
Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-7B-G-7-031119

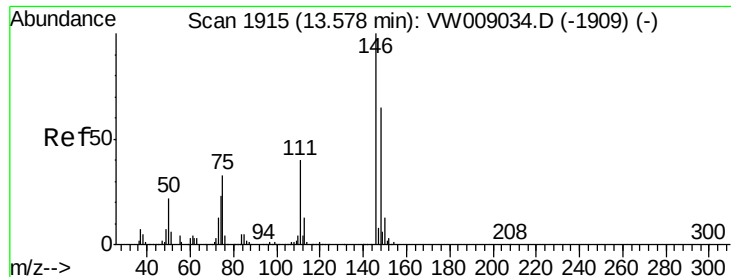
Tot Ion: 91 Resp: 131  
Ion Ratio Lower Upper  
91 100  
126 19.8 16.6 49.8



#87  
1,3-Dichlorobenzene  
Concen: 1.028 ug/l  
RT: 13.68 min Scan# 1932  
Delta R.T. 0.18 min  
Lab File: VW009113.D  
Acq: 12 Mar 2019 04:51

Tgt Ion: 146 Resp: 24  
Ion Ratio Lower Upper  
146 100  
111 0.0 19.8 59.4#  
148 0.0 31.6 94.8#





#88

1,4-Dichlorobenzene

Concen: 1.040 ug/l

RT: 13.68 min Scan# 1932

Delta R.T. 0.10 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

SUP-7B-G-7-031119

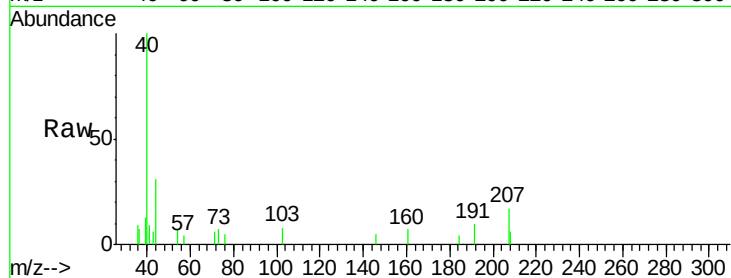
Tot Ion:146 Resp: 24

Ion Ratio Lower Upper

146 100

111 0.0 19.7 59.0#

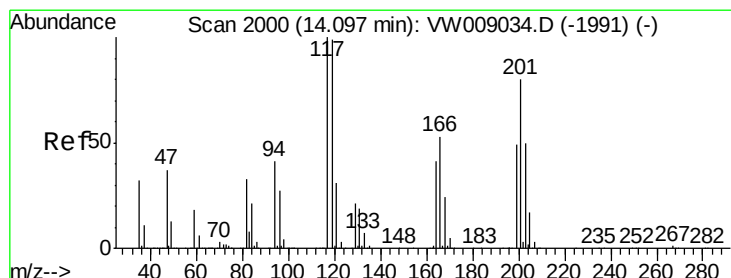
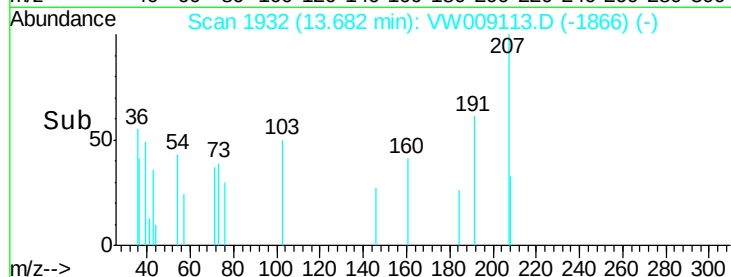
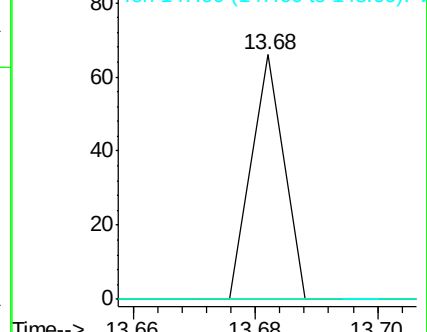
148 0.0 32.2 96.6#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#90

Hexachloroethane

Concen: 2.970 ug/l

RT: 14.17 min Scan# 2012

Delta R.T. 0.07 min

Lab File: VW009113.D

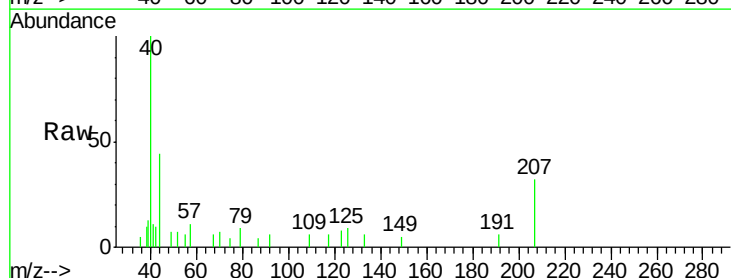
Acq: 12 Mar 2019 04:51

Tgt Ion:117 Resp: 24

Ion Ratio Lower Upper

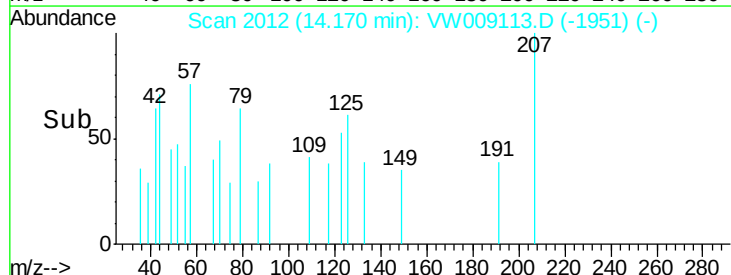
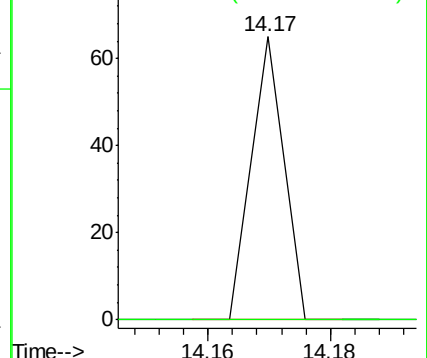
117 100

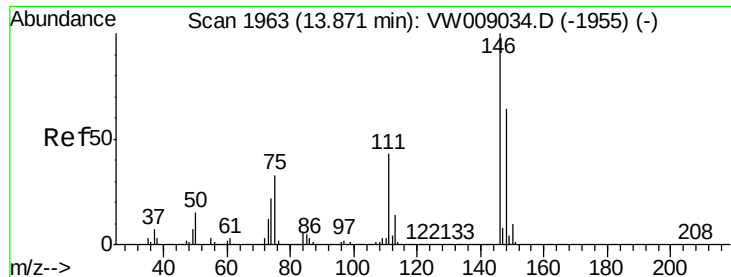
201 0.0 39.1 117.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

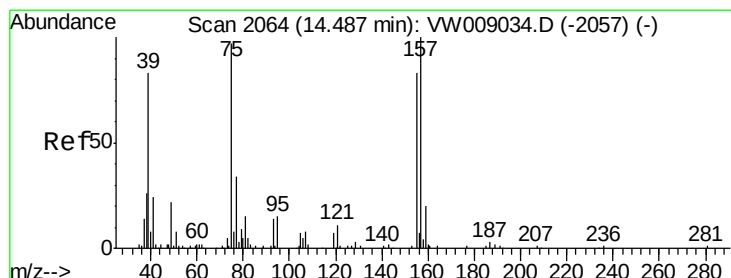
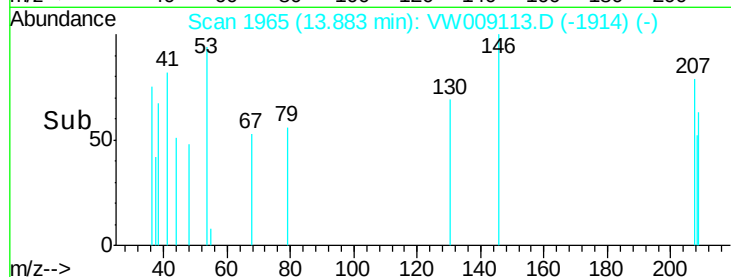
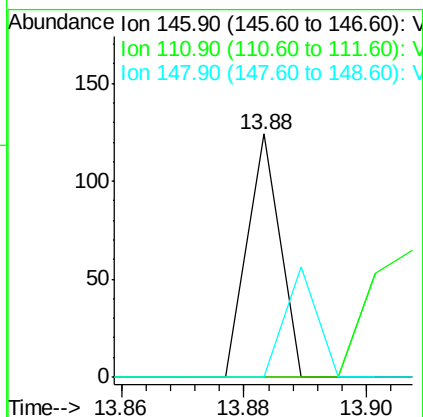
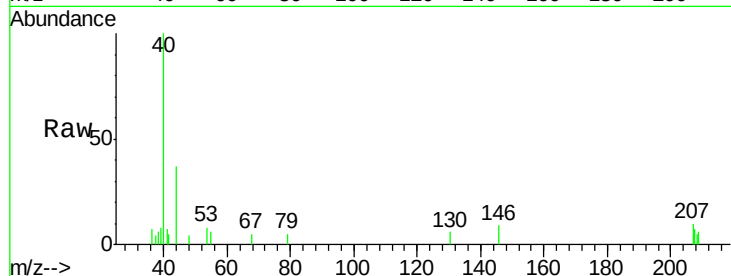




#91  
 1,2-Dichlorobenzene  
 Concen: 2.184 ug/l  
 RT: 13.88 min Scan# 1965  
 Delta R.T. 0.01 min  
 Lab File: VW009113.D  
 Acq: 12 Mar 2019 04:51

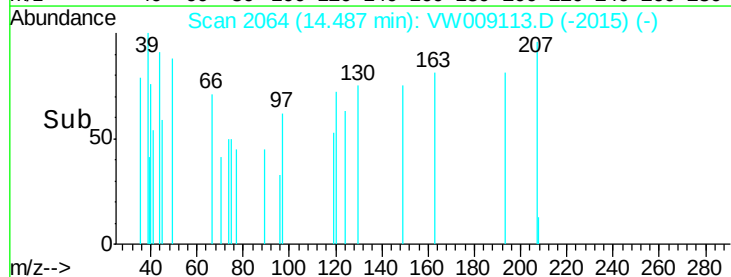
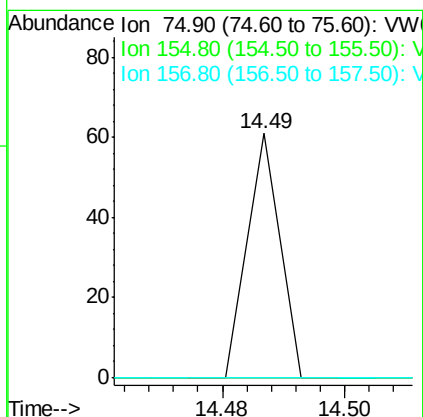
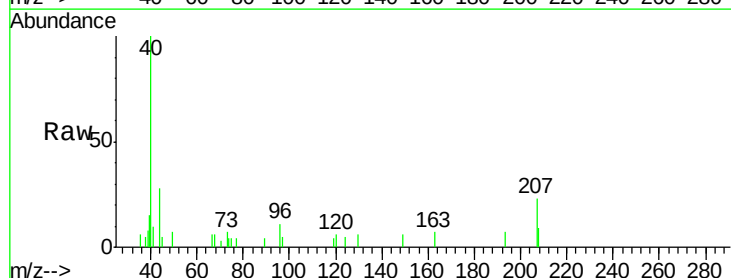
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-7B-G-7-031119

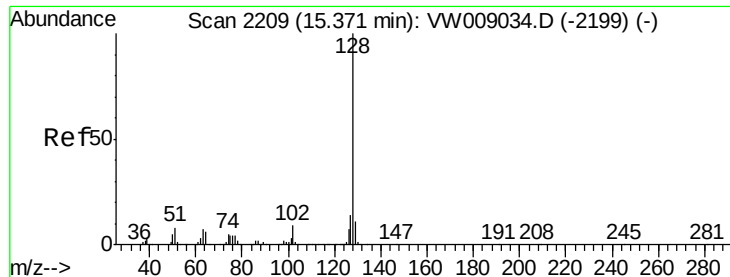
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 21.1  | 63.1# |
| 148     | 44.4  | 32.3  | 96.9  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 16.105 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW009113.D  
 Acq: 12 Mar 2019 04:51

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 0.0   | 40.8  | 122.4# |
| 157     | 0.0   | 52.4  | 157.3# |





#95

Naphthalene

Concen: 2.415 ug/l

RT: 15.35 min Scan# 2206

Delta R.T. -0.02 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

Instrument :

MSVOA\_W

ClientSampleId :

SUP-7B-G-7-031119

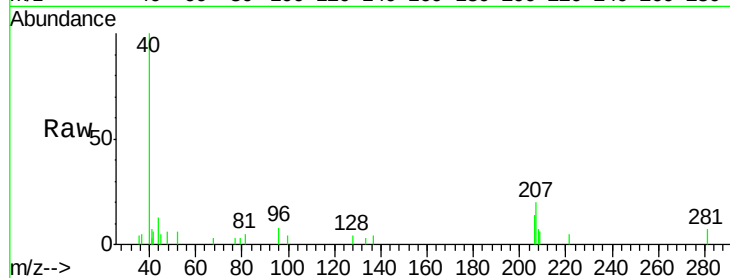
Tot Ion:128 Resp: 55

Ion Ratio Lower Upper

128 100

127 0.0 11.0 16.6#

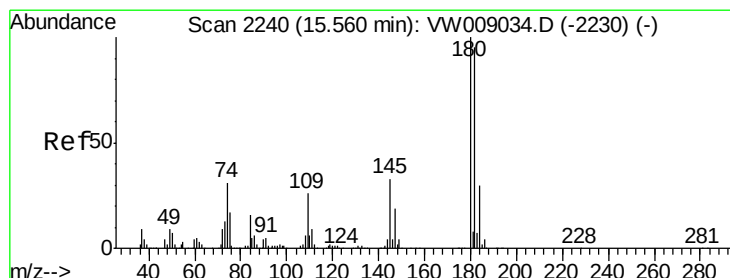
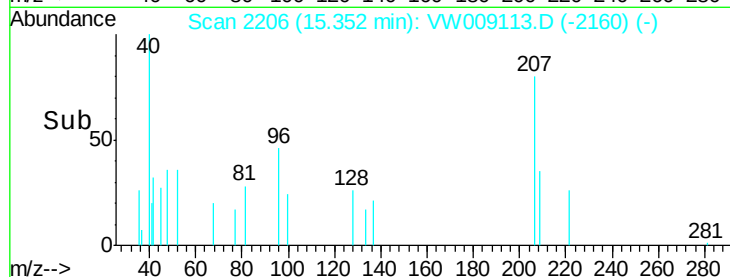
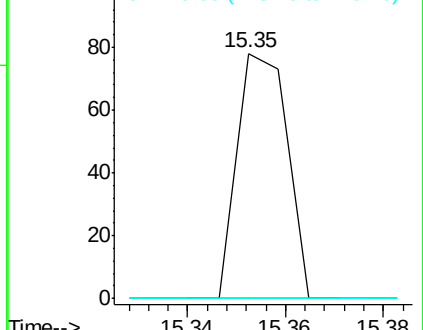
129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.880 ug/l

RT: 15.72 min Scan# 2267

Delta R.T. 0.16 min

Lab File: VW009113.D

Acq: 12 Mar 2019 04:51

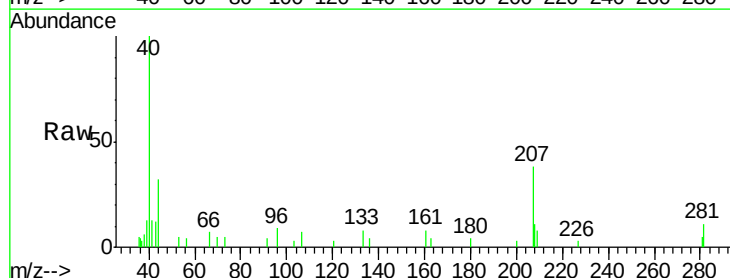
Tgt Ion:180 Resp: 23

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.3#

145 0.0 15.8 47.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

