

Data File : VW011143.D  
Acq On : 03 Jul 2019 16:45  
Operator : SY/VA  
Sample : K3622-01  
Misc : 6.07G/5ML/MSVOA\_W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
OR-02-070319-A

Quant Time: Jul 04 03:53:00 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W062819S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 28 01:55:46 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 184810   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 318620   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 238202   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 73366    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 126089   | 52.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.38% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 96404    | 49.55 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.10%  |      |
| 50) Toluene-d8            | 10.32  | 98  | 375777   | 46.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.84%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 100915   | 34.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 68.90%  |      |

Target Compounds

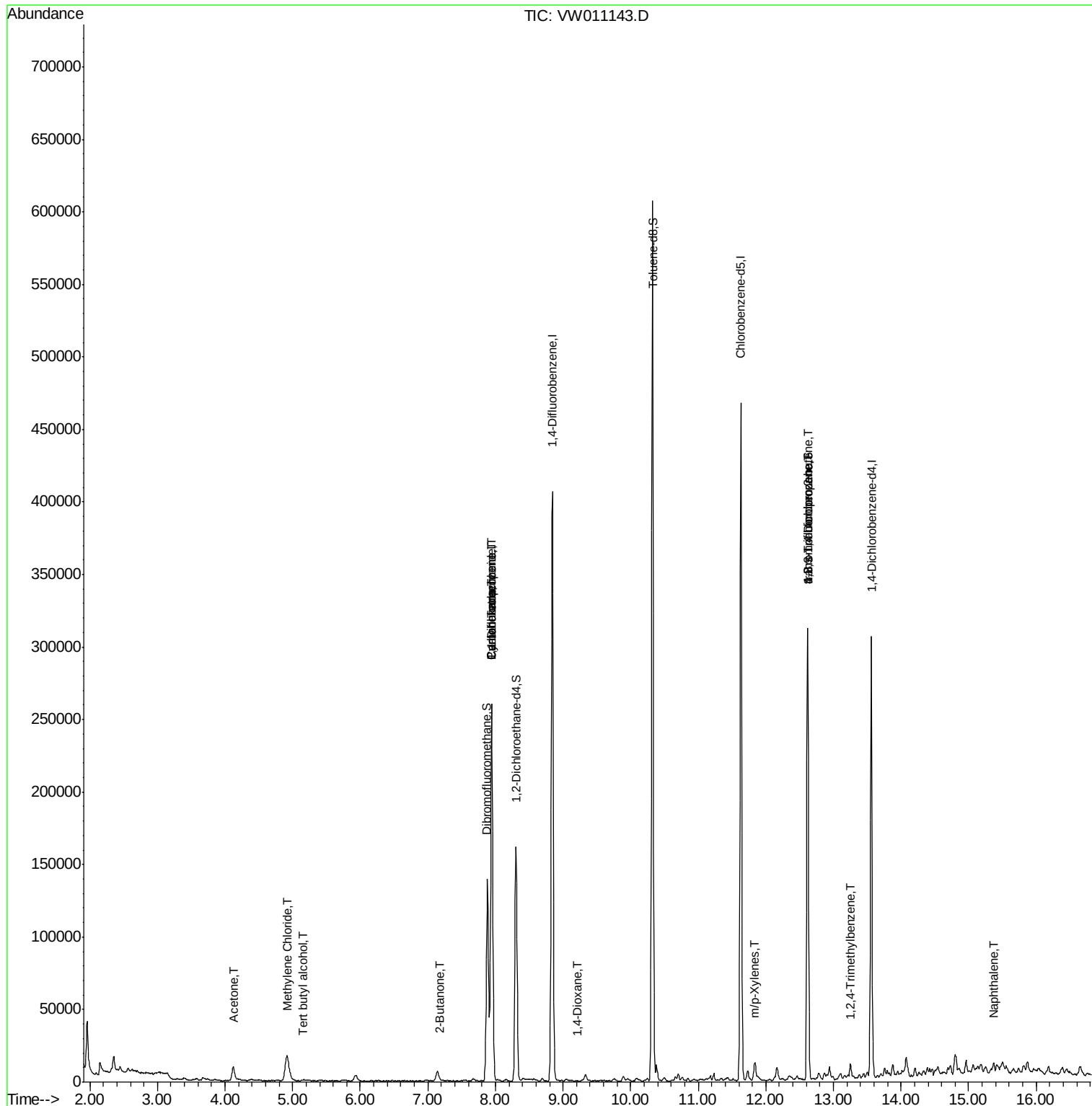
|                                |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.16  | 59  | 1289  | 7.346   | ug/l # | 76     |
| 16) Acetone                    | 4.12  | 43  | 18201 | 30.864  | ug/l   | 99     |
| 20) Methylene Chloride         | 4.92  | 84  | 14772 | 6.165   | ug/l   | 95     |
| 25) 2-Butanone                 | 7.18  | 43  | 1168  | 1.303   | ug/l # | 54     |
| 31) Cyclohexane                | 7.95  | 56  | 5115  | 1.107   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 16694 | 4.875   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 19085 | 6.767   | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.21  | 88  | 24    | 1.193   | ug/l # | 1      |
| 68) m/p-Xylenes                | 11.84 | 106 | 3459  | 1.021   | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 55064 | 71.091  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 55064 | 142.955 | ug/l # | 3      |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105 | 5627  | 1.195   | ug/l   | 94     |
| 95) Naphthalene                | 15.37 | 128 | 5538  | 1.952   | ug/l # | 95     |

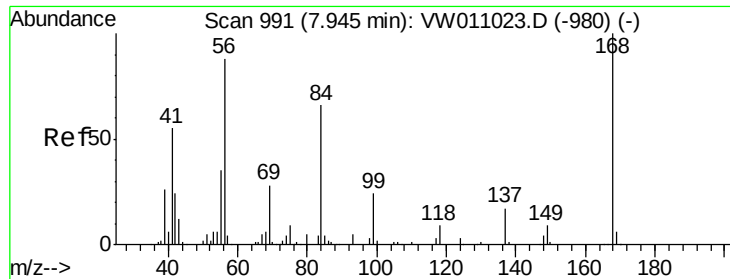
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011143.D

Acq: 03 Jul 2019 16:45

Instrument :

MSVOA\_W

ClientSampleId :

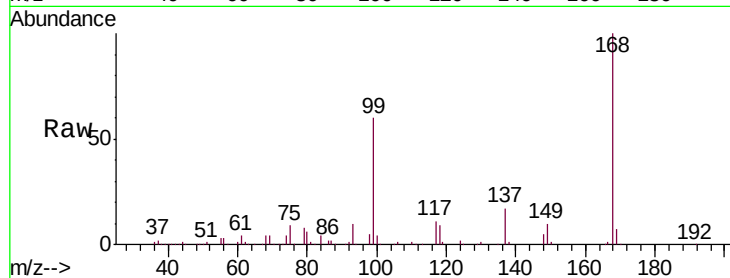
OR-02-070319-A

Tgt Ion:168 Resp: 184810

Ion Ratio Lower Upper

168 100

99 60.0 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

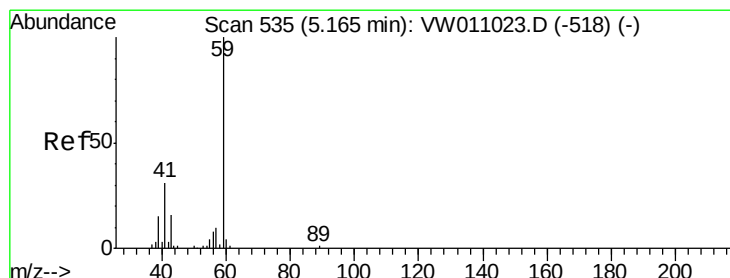
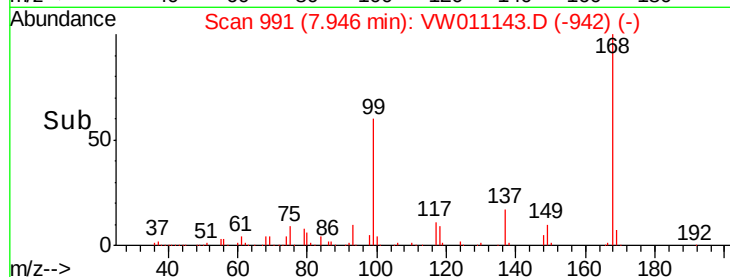
40000

20000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 7.346 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW011143.D

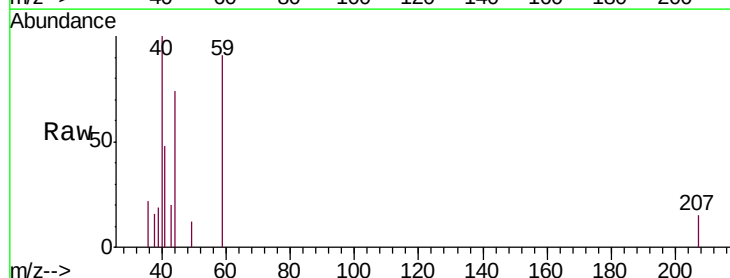
Acq: 03 Jul 2019 16:45

Tgt Ion: 59 Resp: 1289

Ion Ratio Lower Upper

59 100

57 2.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.16

400

300

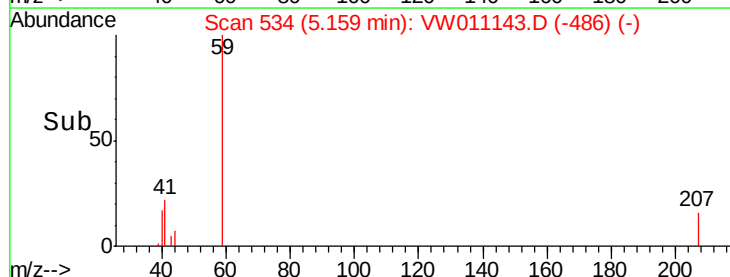
200

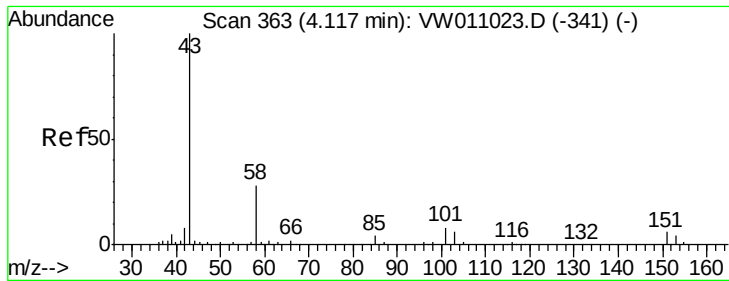
100

0

5.05 5.10 5.15 5.20 5.25

Time-->





#16

Acetone

Concen: 30.864 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011143.D

Acq: 03 Jul 2019 16:45

Instrument :

MSVOA\_W

ClientSampleId :

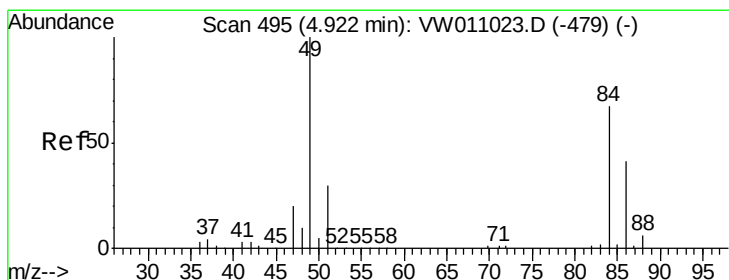
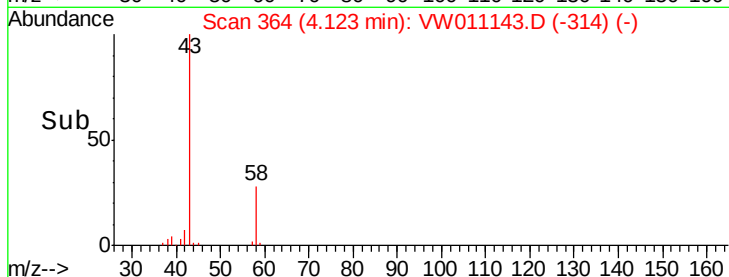
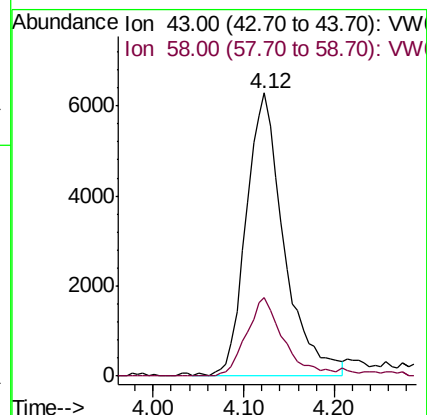
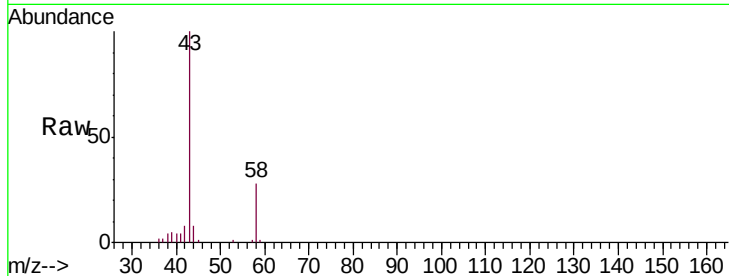
OR-02-070319-A

Tgt Ion: 43 Resp: 18201

Ion Ratio Lower Upper

43 100

58 27.8 22.5 33.7



#20

Methylene Chloride

Concen: 6.165 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW011143.D

Acq: 03 Jul 2019 16:45

Tgt Ion: 84 Resp: 14772

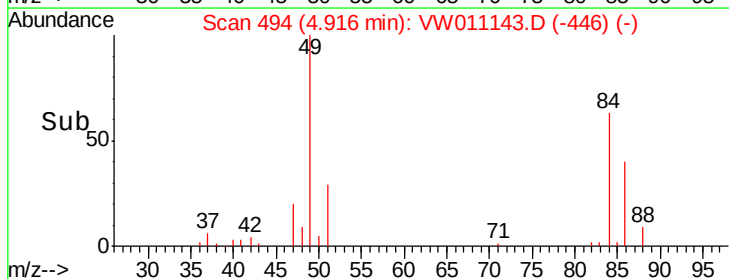
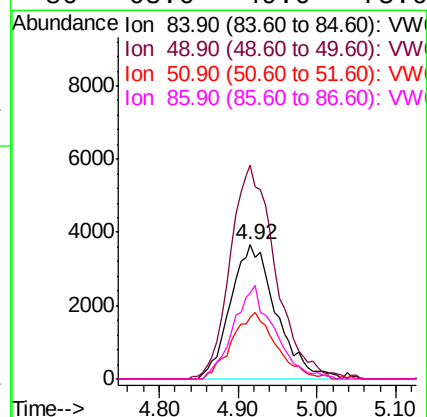
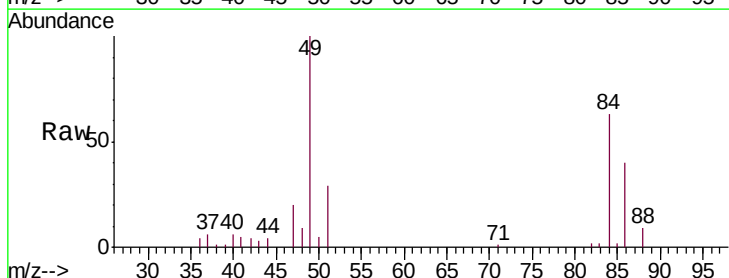
Ion Ratio Lower Upper

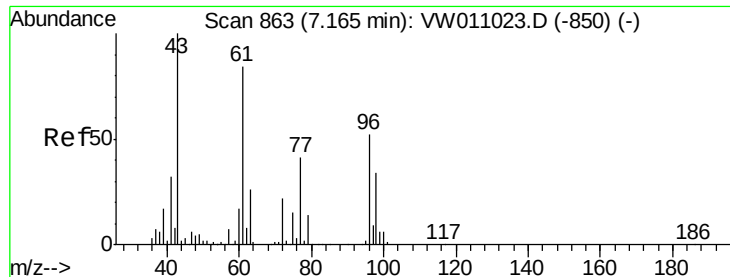
84 100

49 157.0 119.6 179.4

51 45.8 35.6 53.4

86 63.6 49.0 73.6





#25

2-Butanone

Concen: 1.303 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW011143.D

Acq: 03 Jul 2019 16:45

Instrument :

MSVOA\_W

ClientSampleId :

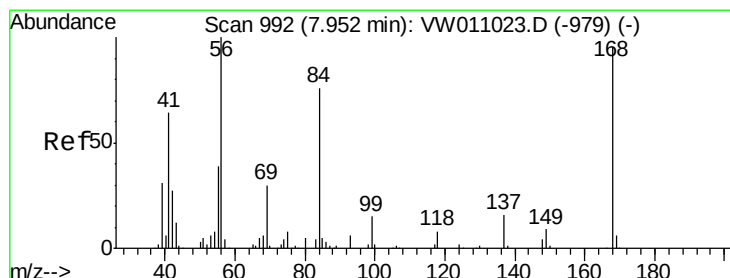
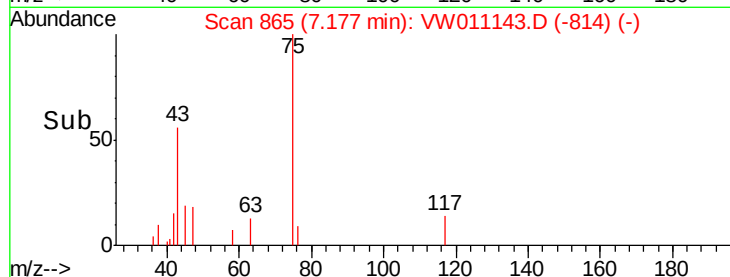
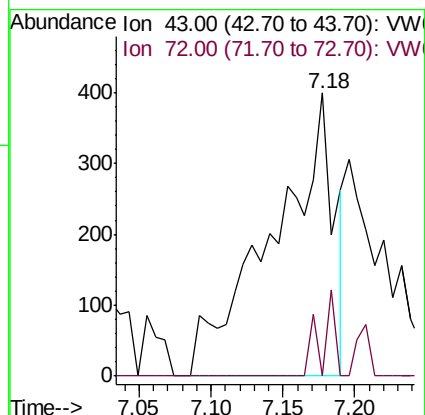
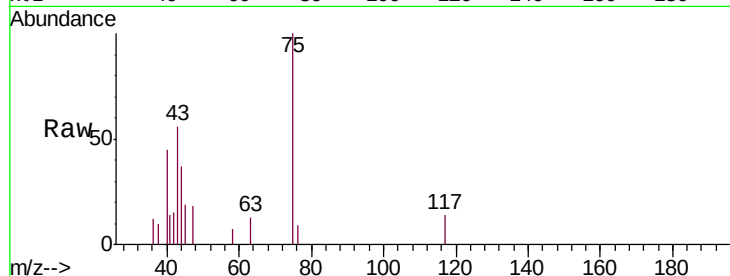
OR-02-070319-A

Tgt Ion: 43 Resp: 1168

Ion Ratio Lower Upper

43 100

72 0.0 17.2 25.8#



#31

Cyclohexane

Concen: 1.107 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011143.D

Acq: 03 Jul 2019 16:45

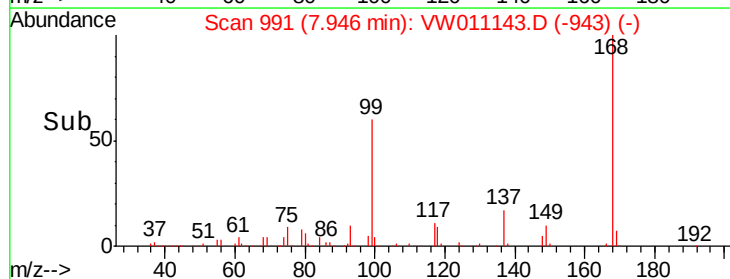
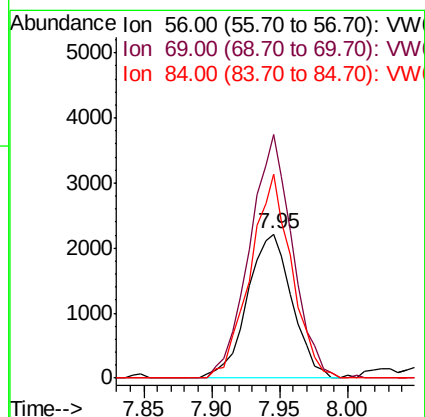
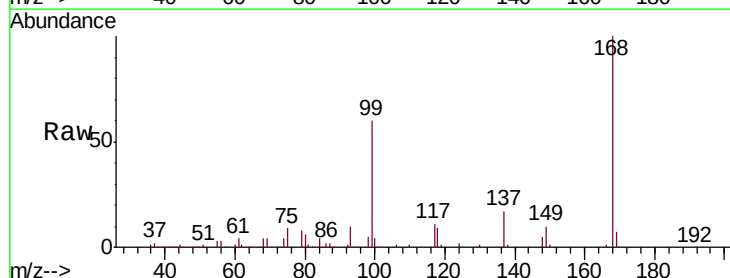
Tgt Ion: 56 Resp: 5115

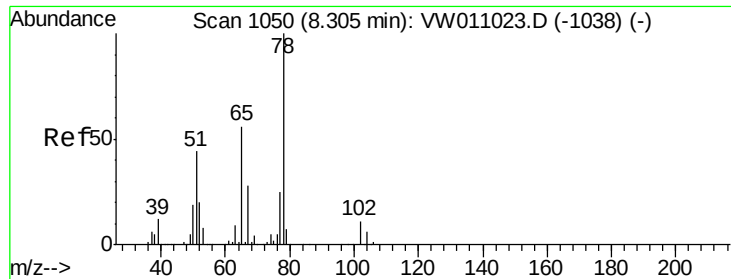
Ion Ratio Lower Upper

56 100

69 168.6 24.2 36.2#

84 141.6 60.6 90.8#

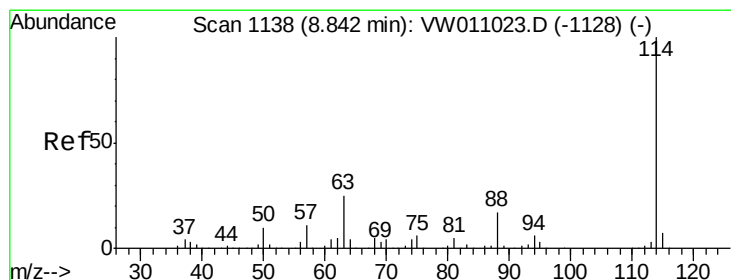
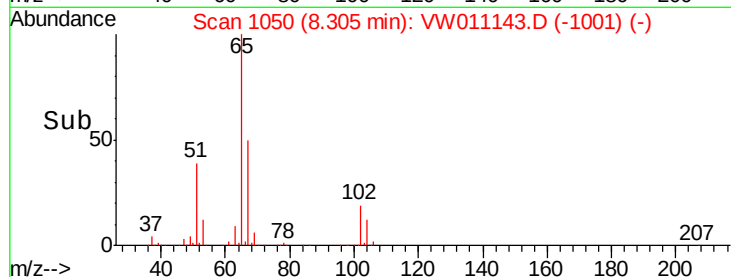
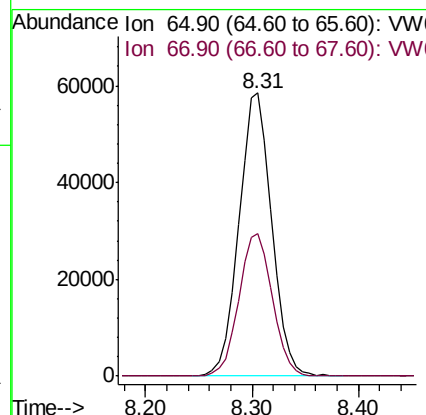
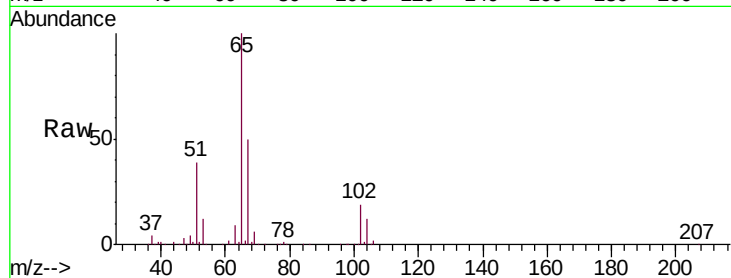




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.190 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW011143.D  
 Acq: 03 Jul 2019 16:45

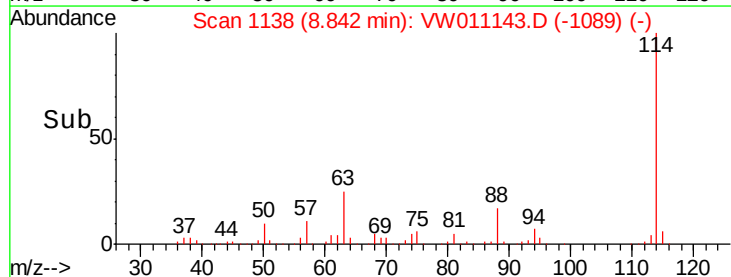
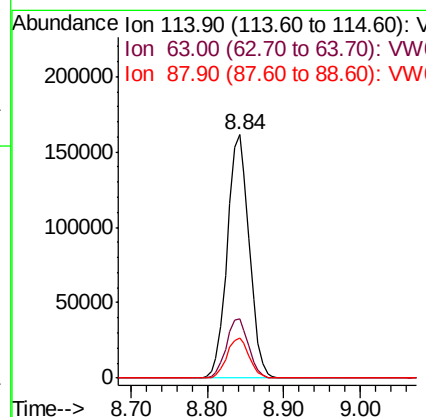
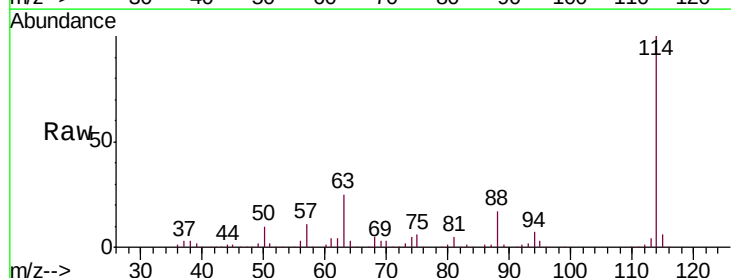
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OR-02-070319-A

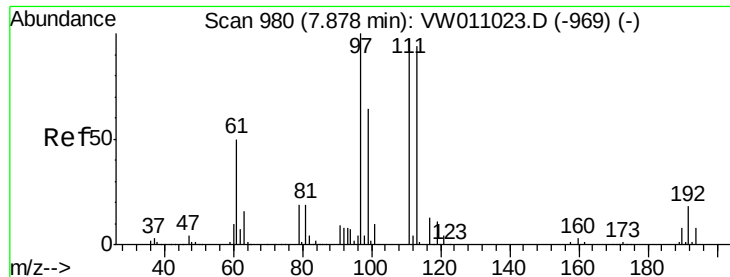
Tgt Ion: 65 Resp: 126089  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 102.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW011143.D  
 Acq: 03 Jul 2019 16:45

Tgt Ion: 114 Resp: 318620  
 Ion Ratio Lower Upper  
 114 100  
 63 24.5 0.0 50.6  
 88 16.5 0.0 34.0

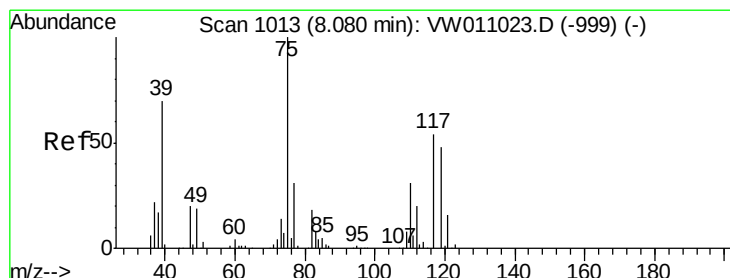
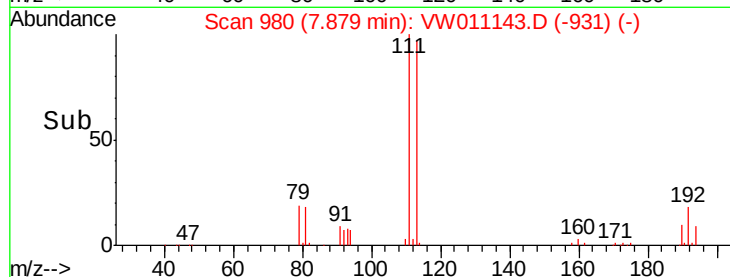
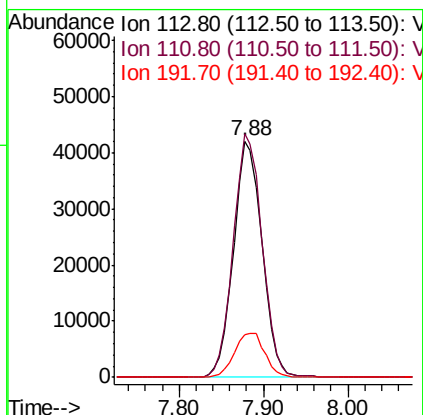
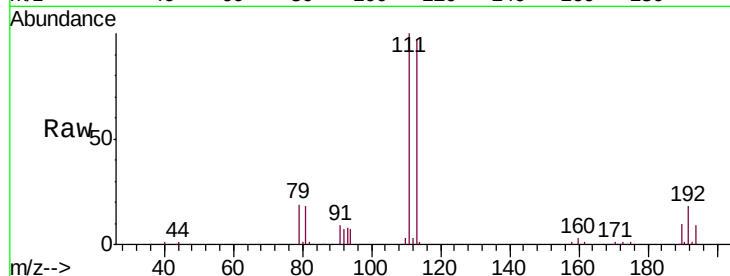




#35  
 Dibromofluoromethane  
 Concen: 49.549 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. 0.00 min  
 Lab File: VW011143.D  
 Acq: 03 Jul 2019 16:45

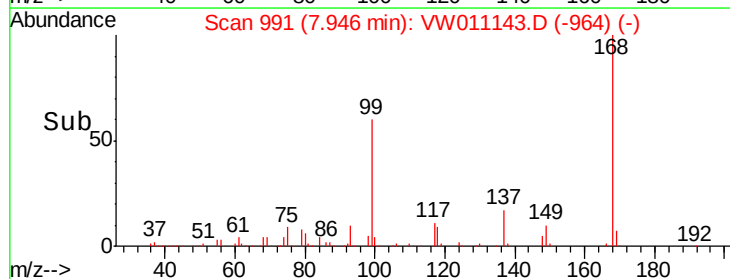
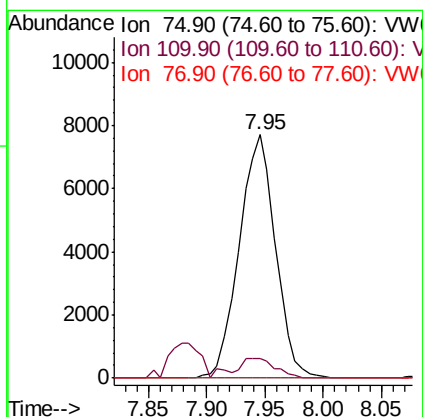
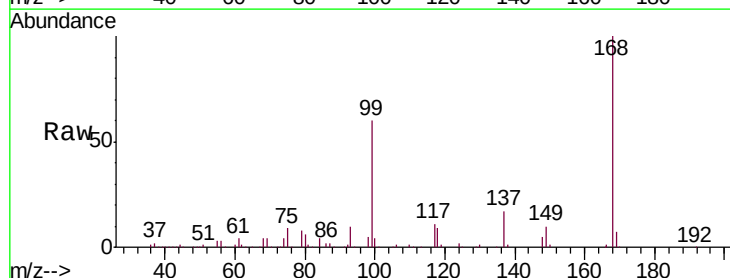
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OR-02-070319-A

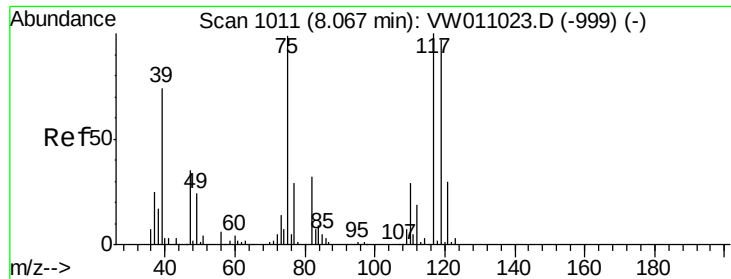
Tgt Ion:113 Resp: 96404  
 Ion Ratio Lower Upper  
 113 100  
 111 104.1 83.8 125.6  
 192 19.9 16.0 24.0



#36  
 1,1-Dichloropropene  
 Concen: 4.875 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011143.D  
 Acq: 03 Jul 2019 16:45

Tgt Ion: 75 Resp: 16694  
 Ion Ratio Lower Upper  
 75 100  
 110 8.1 15.5 46.5#  
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.767 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011143.D

Acq: 03 Jul 2019 16:45

Instrument :

MSVOA\_W

ClientSampleId :

OR-02-070319-A

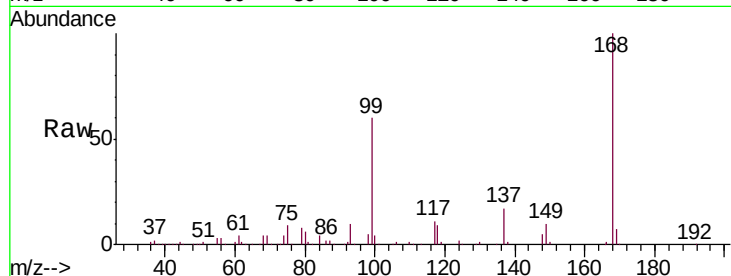
Tgt Ion:117 Resp: 19085

Ion Ratio Lower Upper

117 100

119 6.1 77.7 116.5#

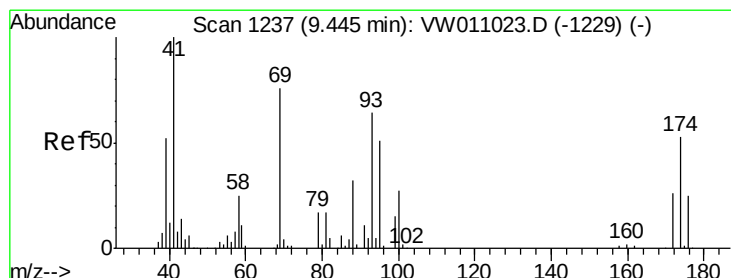
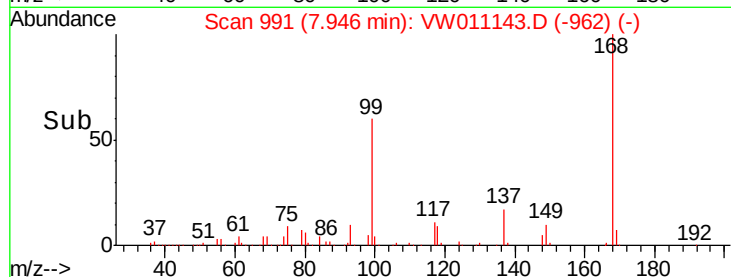
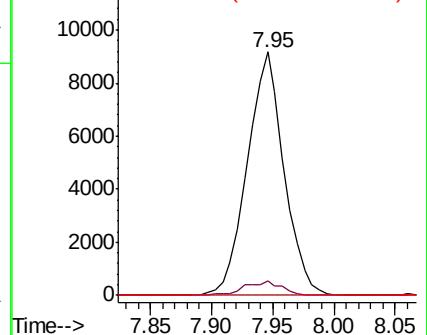
121 0.0 23.9 35.9#



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



#49

1,4-Dioxane

Concen: 1.193 ug/l

RT: 9.21 min Scan# 1199

Delta R.T. -0.23 min

Lab File: VW011143.D

Acq: 03 Jul 2019 16:45

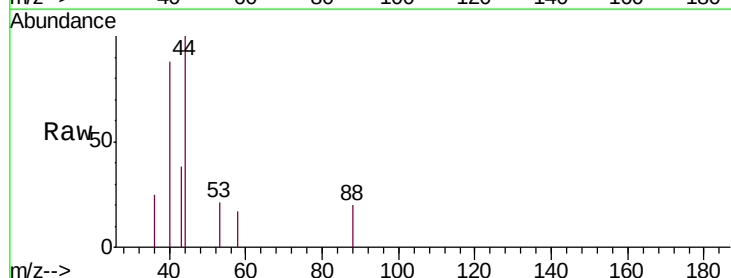
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 295.8 34.4 51.6#

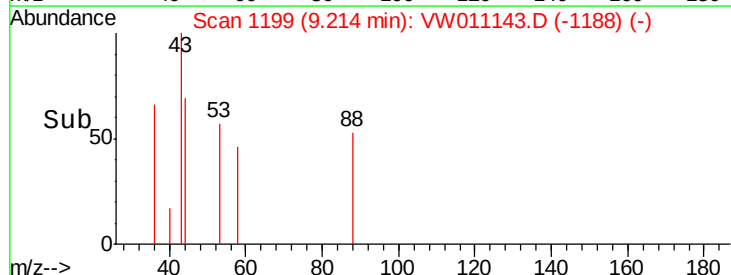
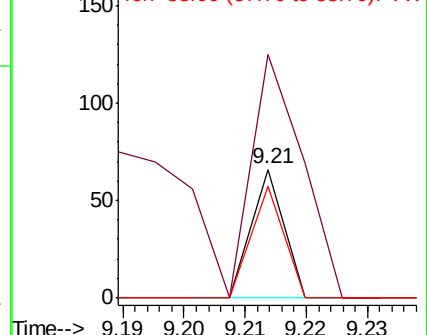
58 87.5 65.2 97.8



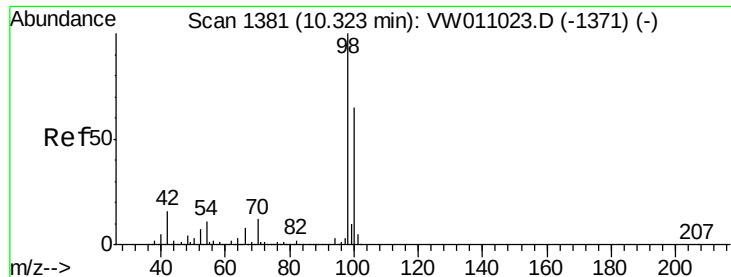
Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW







#50

Toluene-d8

Concen: 46.921 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011143.D

Acq: 03 Jul 2019 16:45

Instrument :

MSVOA\_W

ClientSampleId :

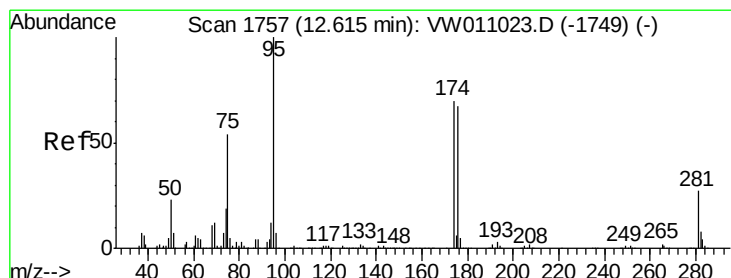
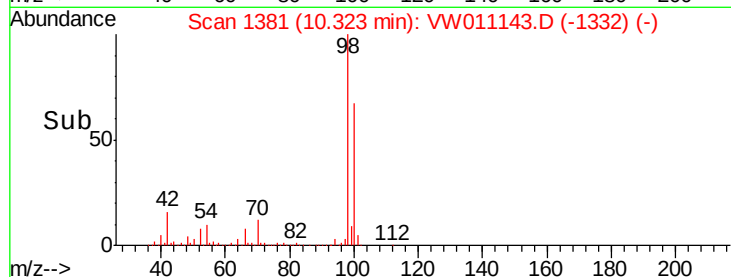
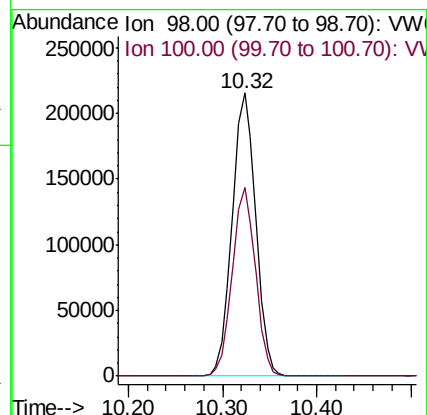
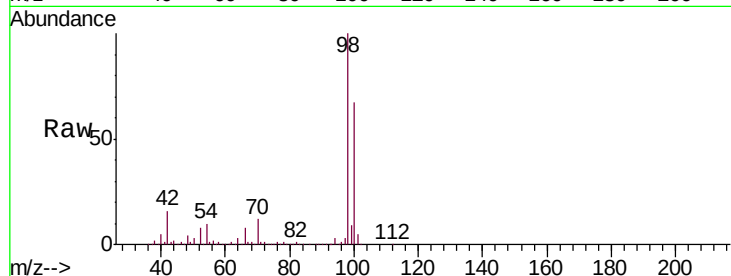
OR-02-070319-A

Tgt Ion: 98 Resp: 375777

Ion Ratio Lower Upper

98 100

100 65.3 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 34.452 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW011143.D

Acq: 03 Jul 2019 16:45

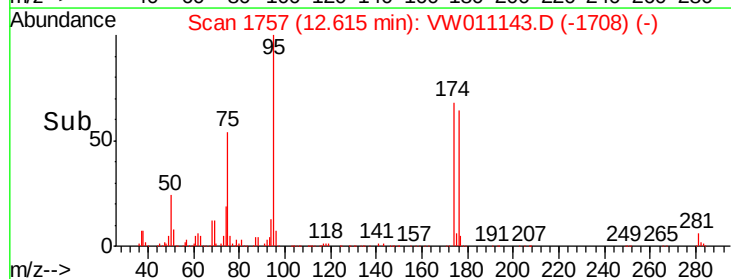
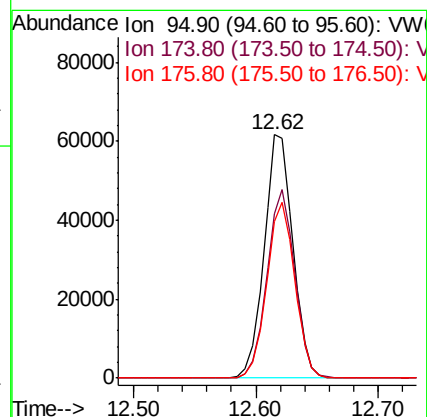
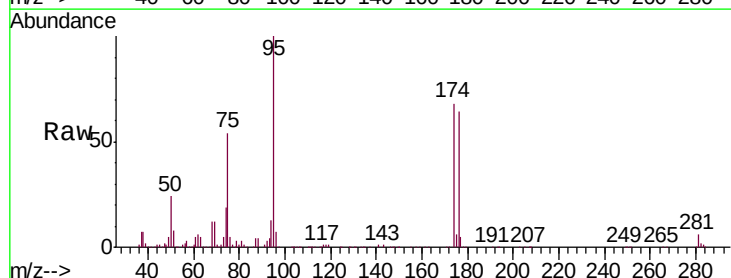
Tgt Ion: 95 Resp: 100915

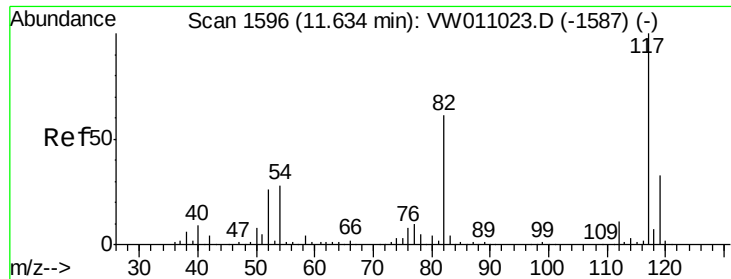
Ion Ratio Lower Upper

95 100

174 75.0 0.0 149.2

176 70.7 0.0 143.6

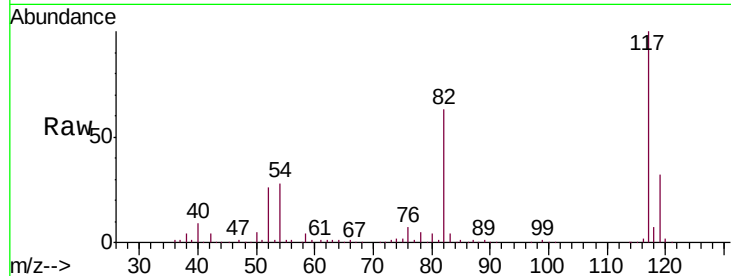




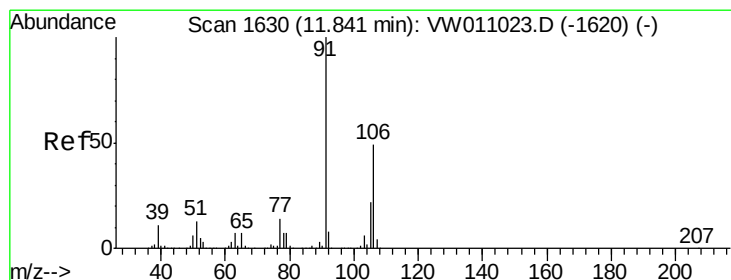
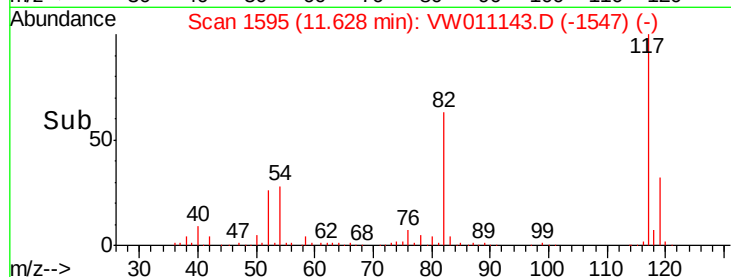
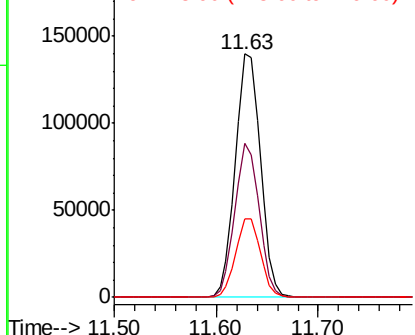
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW011143.D  
Acq: 03 Jul 2019 16:45

Instrument :  
MSVOA\_W  
ClientSampleId :  
OR-02-070319-A

Tgt Ion:117 Resp: 238202  
Ion Ratio Lower Upper  
117 100  
82 63.0 48.6 73.0  
119 32.0 26.1 39.1

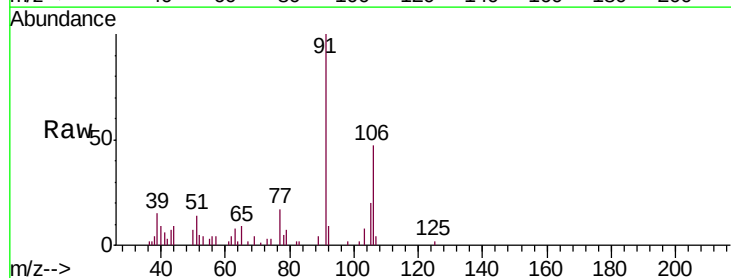


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

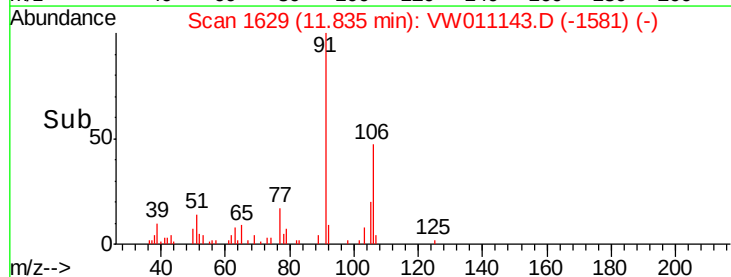
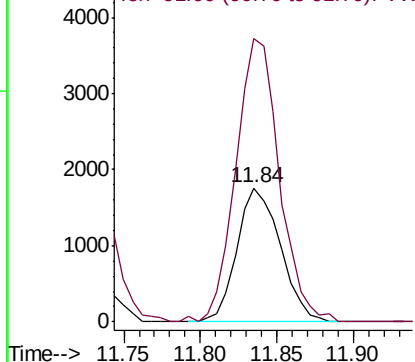


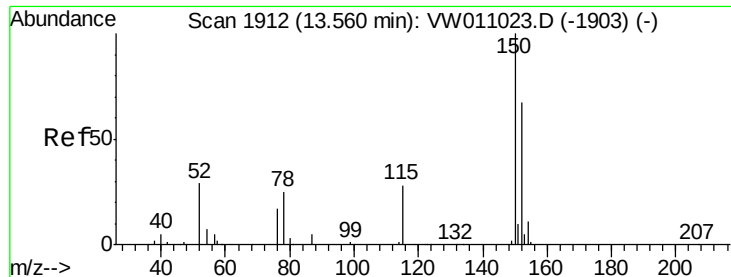
#68  
m/p-Xylenes  
Concen: 1.021 ug/l  
RT: 11.84 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW011143.D  
Acq: 03 Jul 2019 16:45

Tgt Ion:106 Resp: 3459  
Ion Ratio Lower Upper  
106 100  
91 212.4 167.5 251.3



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011143.D

Acq: 03 Jul 2019 16:45

Instrument :

MSVOA\_W

ClientSampleId :

OR-02-070319-A

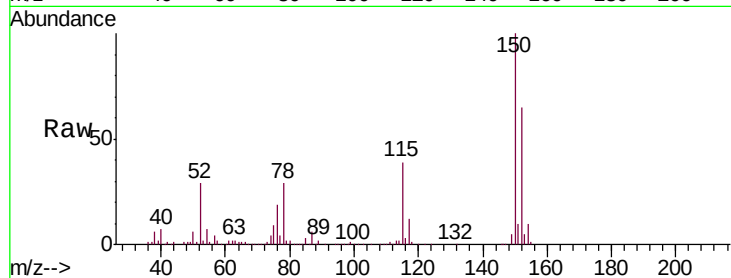
Tgt Ion:152 Resp: 73366

Ion Ratio Lower Upper

152 100

115 60.6 30.7 92.1

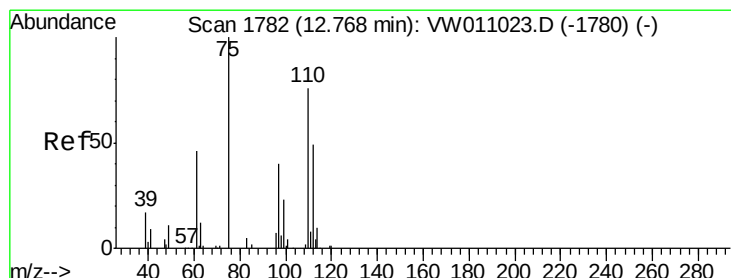
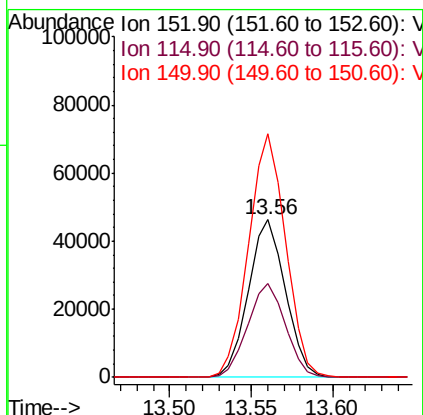
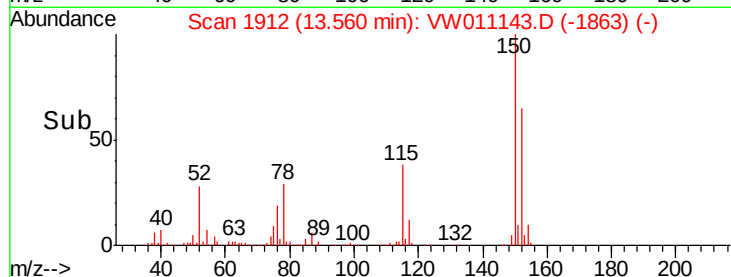
150 154.4 0.0 341.8



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



#76

1,2,3-Trichloropropane

Concen: 71.091 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011143.D

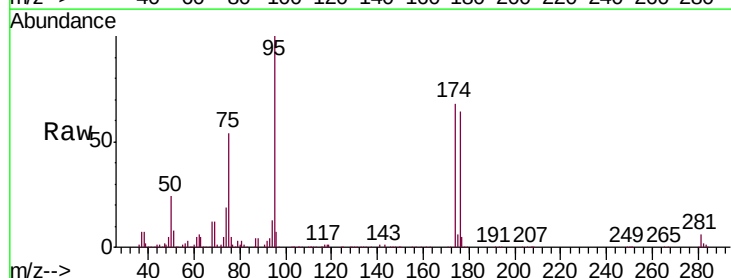
Acq: 03 Jul 2019 16:45

Tgt Ion: 75 Resp: 55064

Ion Ratio Lower Upper

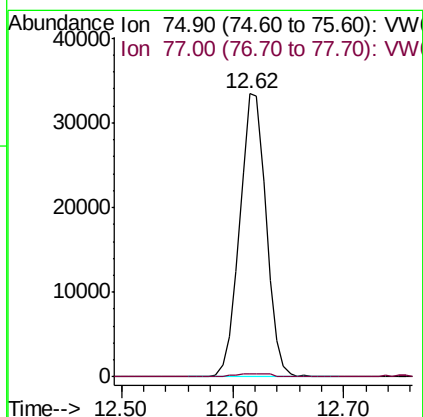
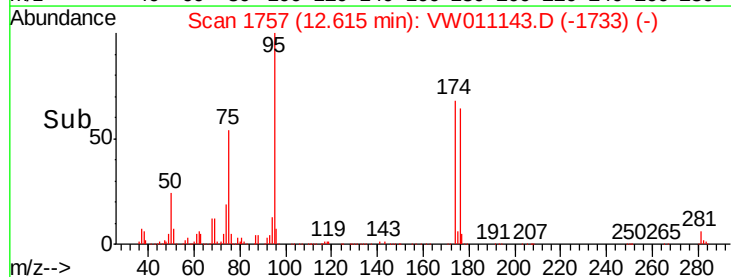
75 100

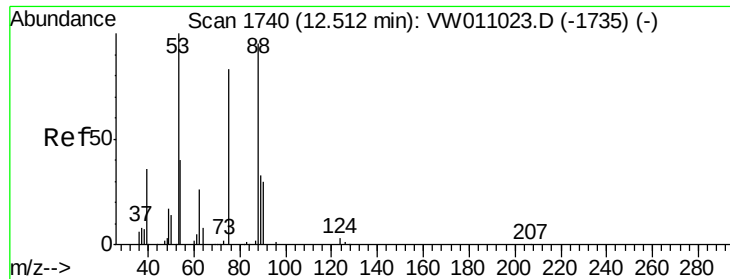
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

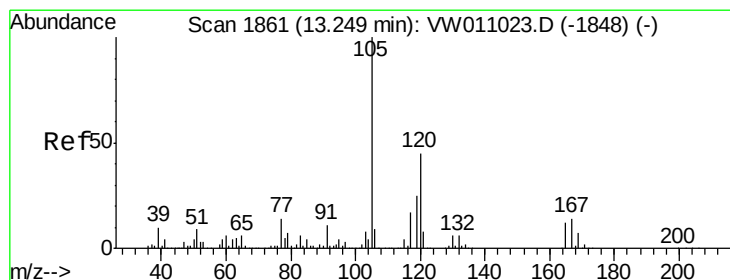
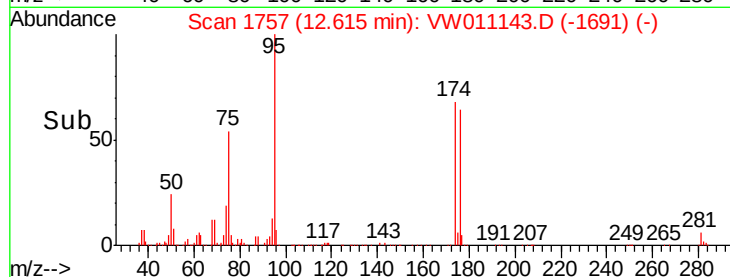
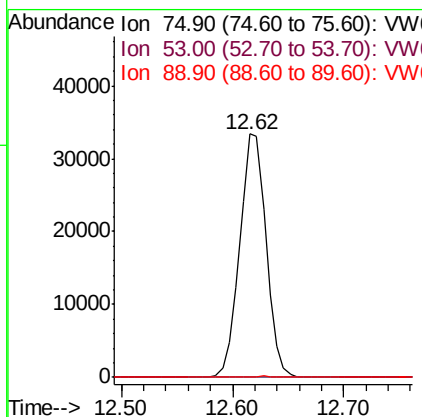
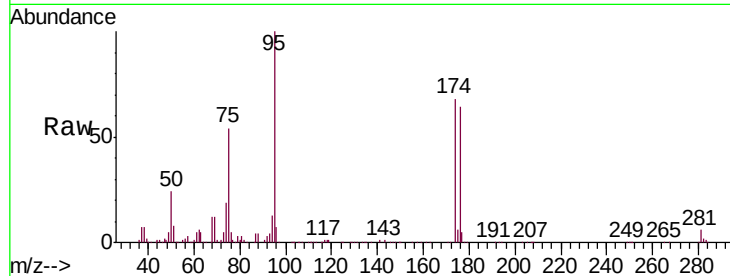




#81  
trans-1,4-Dichloro-2-butene  
Concen: 142.955 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.10 min  
Lab File: VW011143.D  
Acq: 03 Jul 2019 16:45

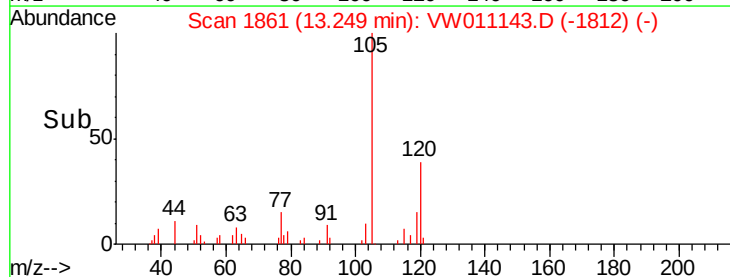
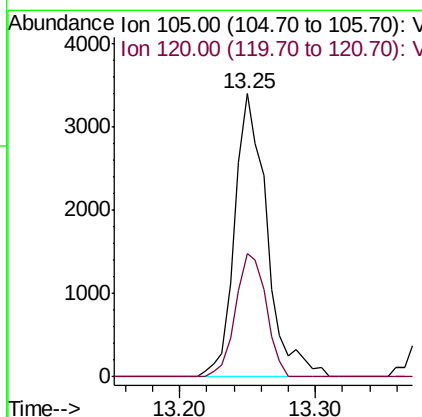
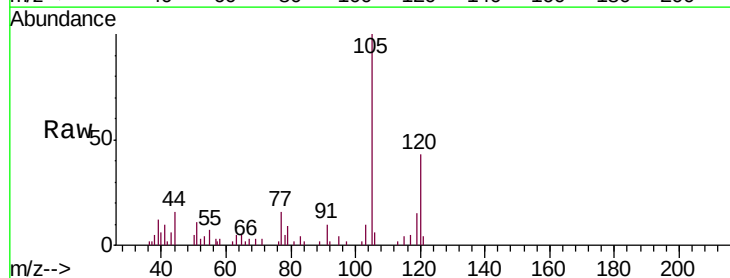
Instrument :  
MSVOA\_W  
ClientSampleId :  
OR-02-070319-A

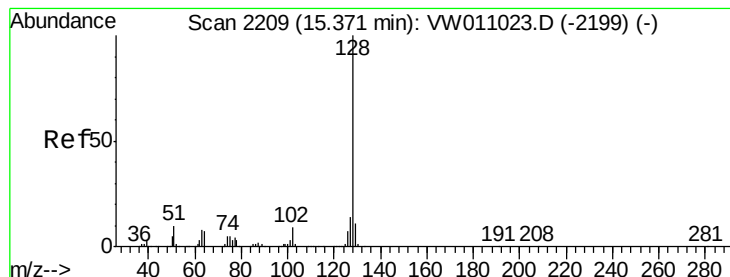
Tgt Ion: 75 Resp: 55064  
Ion Ratio Lower Upper  
75 100  
53 0.2 95.6 143.4#  
89 0.2 34.4 51.6#



#84  
1,2,4-Trimethylbenzene  
Concen: 1.195 ug/l  
RT: 13.25 min Scan# 1861  
Delta R.T. 0.00 min  
Lab File: VW011143.D  
Acq: 03 Jul 2019 16:45

Tgt Ion: 105 Resp: 5627  
Ion Ratio Lower Upper  
105 100  
120 40.9 22.4 67.2





#95

Naphthalene

Concen: 1.952 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011143.D

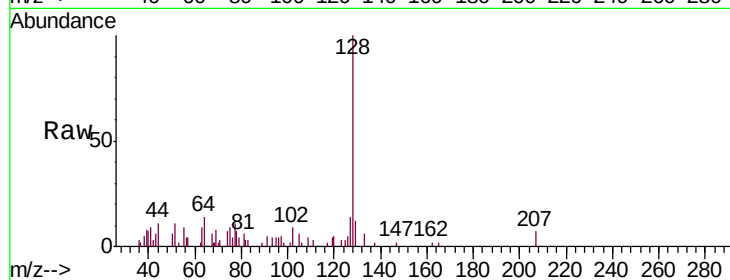
Acq: 03 Jul 2019 16:45

Instrument :

MSVOA\_W

ClientSampleId :

OR-02-070319-A



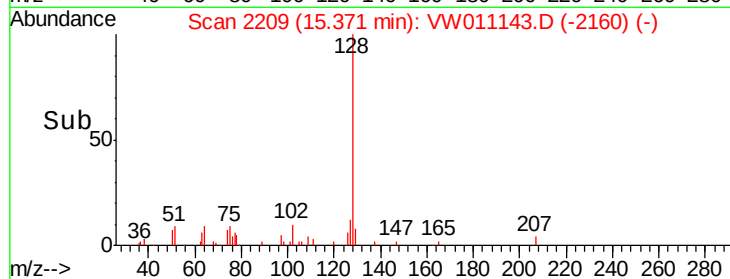
Tgt Ion:128 Resp: 5538

Ion Ratio Lower Upper

128 100

127 14.2 10.7 16.1

129 14.0 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

