

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061919\  
 Data File : VW010874.D  
 Acq On : 20 Jun 2019 04:28  
 Operator : SY/VA  
 Sample : K3447-02  
 Misc : 5.09G/5ML/MSVOA W/SOIL  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BOTTOM-2

Quant Time: Jun 20 05:52:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W060419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 05 03:21:19 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 30995    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 58713    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 52605    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 18038    | 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   | 29254    | 80.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 160.16% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 19158    | 60.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 120.24% |          |
| 50) Toluene-d8              | 10.32 | 98   | 64463    | 46.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.26%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 23917    | 47.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.06%  |          |

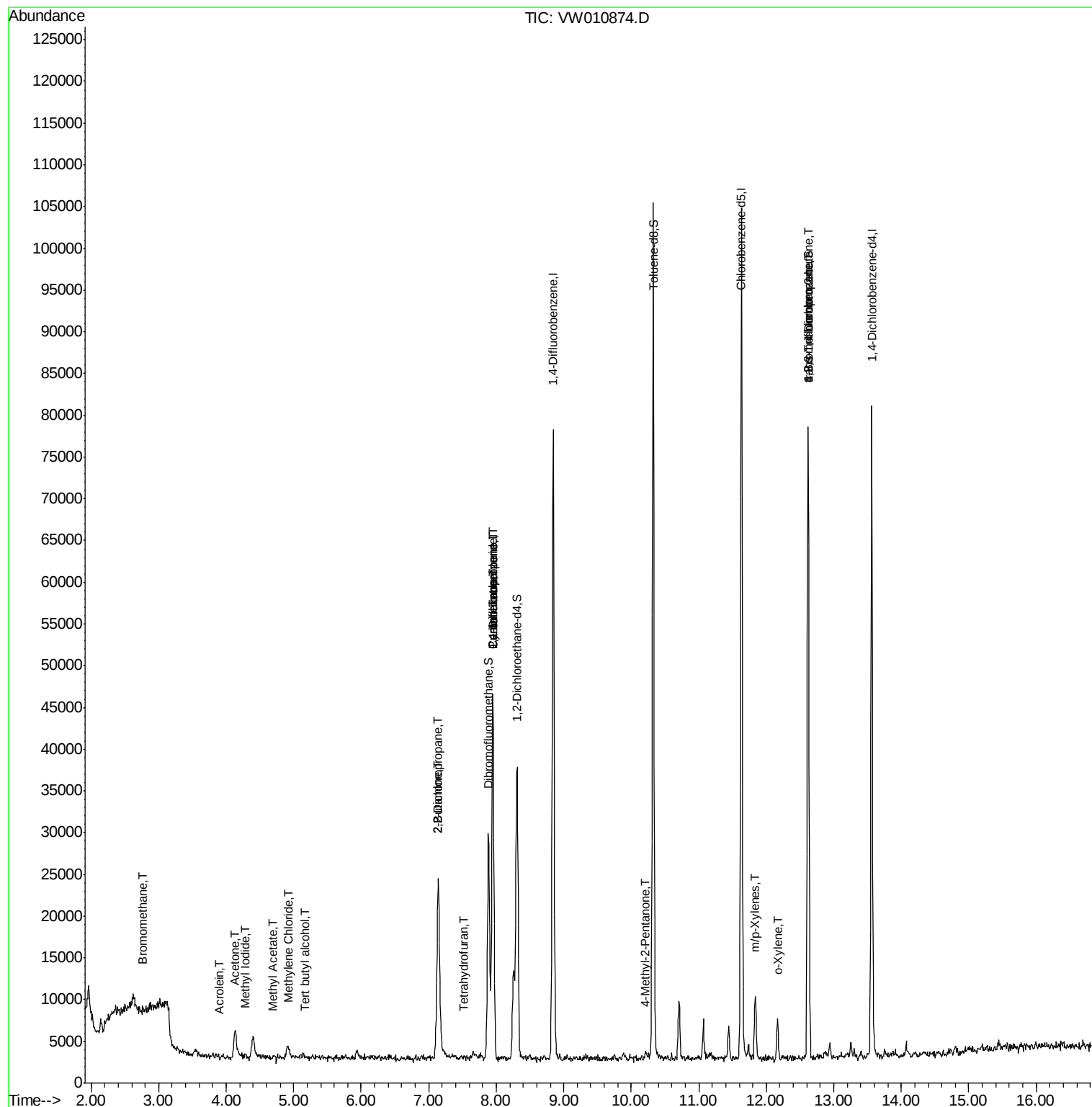
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Bromomethane                | 2.78  | 94   | 357      | 1.670   | ug/l # | 40     |
| 10) Methyl Iodide              | 4.27  | 142  | 30       | 4.883   | ug/l # | 41     |
| 11) Tert butyl alcohol         | 5.16  | 59   | 305      | 10.248  | ug/l # | 72     |
| 13) Acrolein                   | 3.90  | 56   | 21       | 1.727   | ug/l # | 49     |
| 16) Acetone                    | 4.13  | 43   | 6638     | 67.811  | ug/l   | 99     |
| 18) Methyl Acetate             | 4.70  | 43   | 541      | 2.567   | ug/l # | 55     |
| 20) Methylene Chloride         | 4.93  | 84   | 717      | 2.088   | ug/l # | 76     |
| 25) 2-Butanone                 | 7.14  | 43   | 1120     | 8.251   | ug/l # | 81     |
| 26) 2,2-Dichloropropane        | 7.13  | 77   | 1514     | 2.806   | ug/l # | 55     |
| 29) Tetrahydrofuran            | 7.52  | 42   | 281      | 3.291   | ug/l # | 40     |
| 31) Cyclohexane                | 7.95  | 56   | 949      | 1.287   | ug/l # | 24     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 3055     | 5.083   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 3273     | 6.309   | ug/l # | 19     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 873      | 2.656   | ug/l # | 59     |
| 68) m/p-Xylenes                | 11.84 | 106  | 2093     | 2.941   | ug/l   | 92     |
| 69) o-Xylene                   | 12.16 | 106  | 1169     | 1.732   | ug/l   | 94     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 13115    | 69.236  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 13115    | 159.128 | ug/l # | 5      |

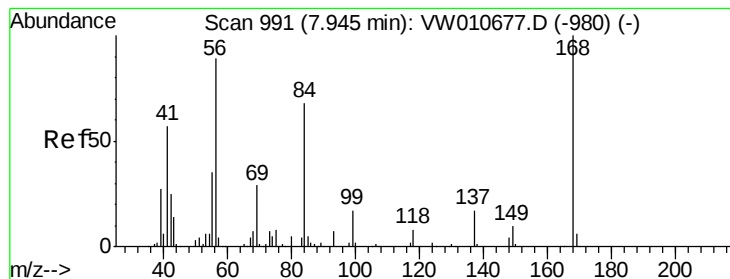
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW061919\  
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Sample : K3447-02  
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ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BOTTOM-2

Quant Time: Jun 20 05:52:40 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W060419S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 05 03:21:19 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW010874.D

Acq: 20 Jun 2019 04:28

Instrument :

MSVOA\_W

ClientSampleId :

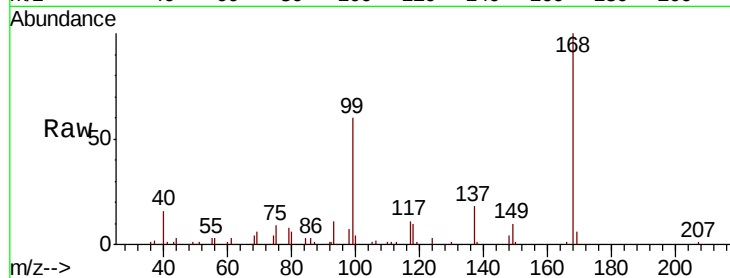
BOTTOM-2

Tot Ion:168 Resp: 30995

Ion Ratio Lower Upper

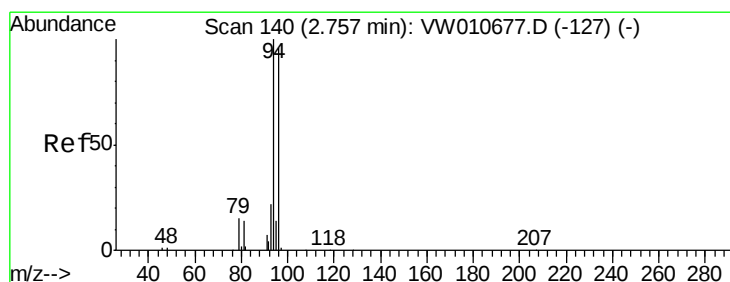
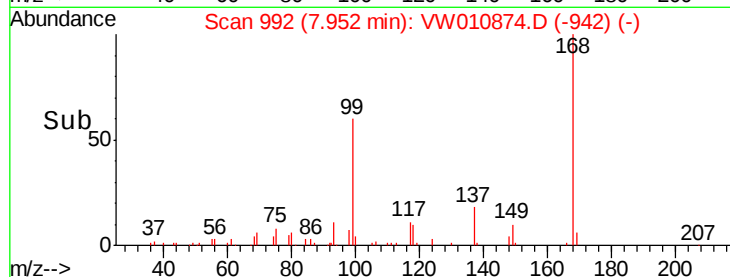
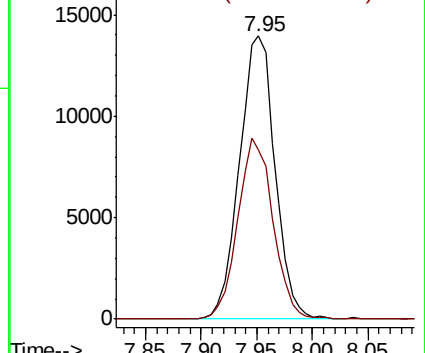
168 100

99 60.1 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#5

Bromomethane

Concen: 1.670 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.02 min

Lab File: VW010874.D

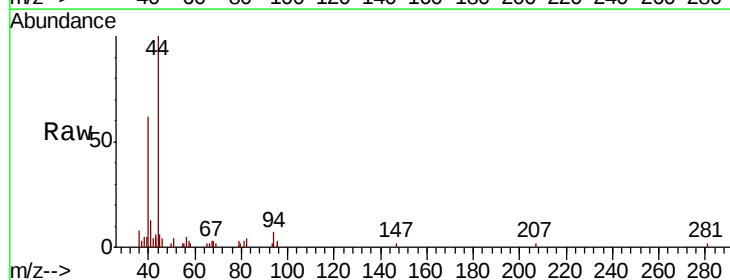
Acq: 20 Jun 2019 04:28

Tgt Ion: 94 Resp: 357

Ion Ratio Lower Upper

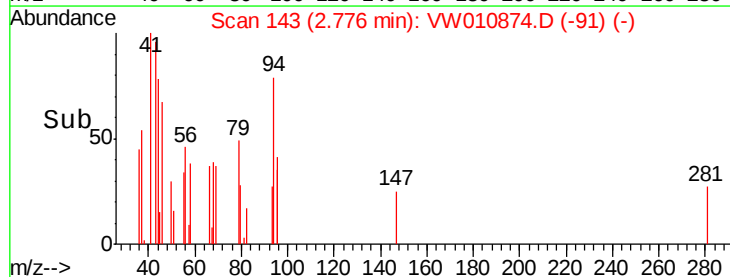
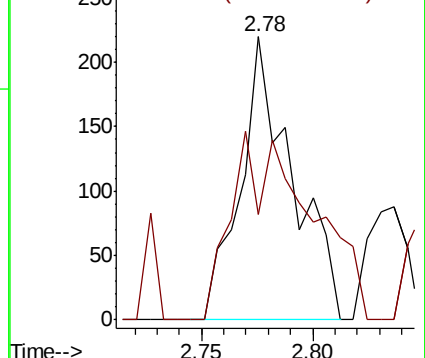
94 100

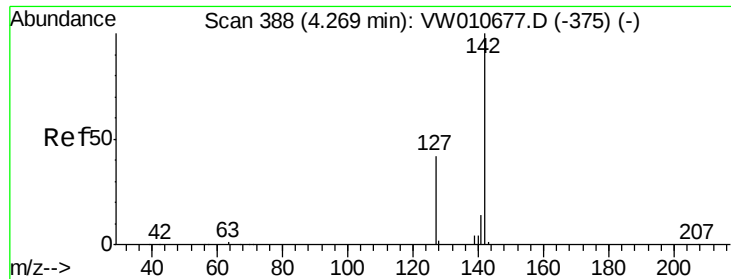
96 37.3 76.5 114.7#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

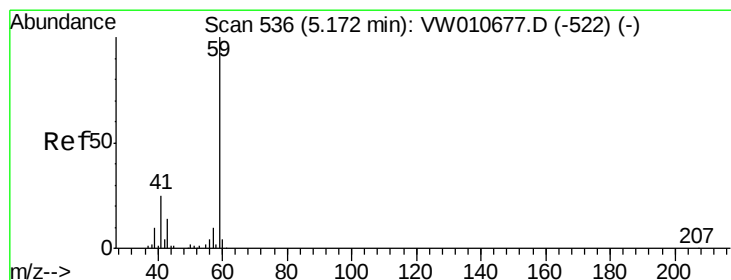
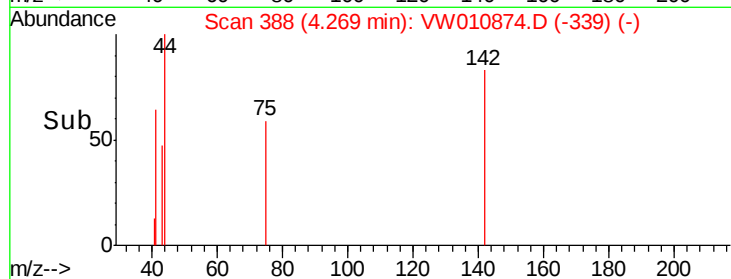
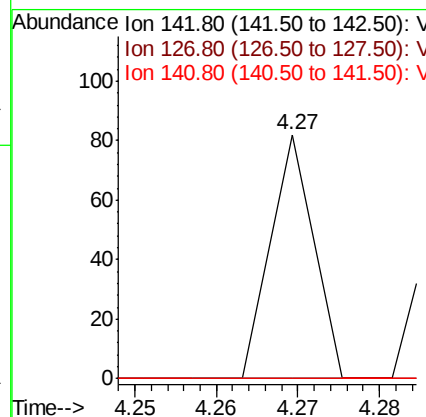
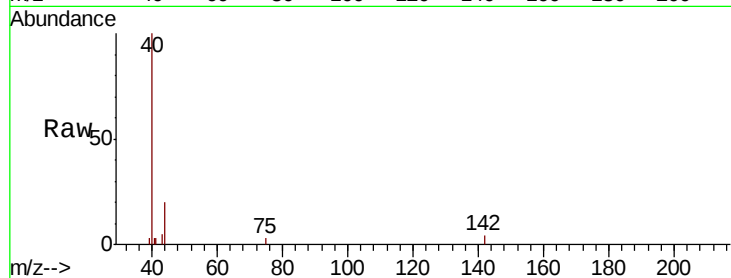




#10  
Methvl Iodide  
Concen: 4.883 ug/l  
RT: 4.27 min Scan# 388  
Delta R.T. 0.00 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

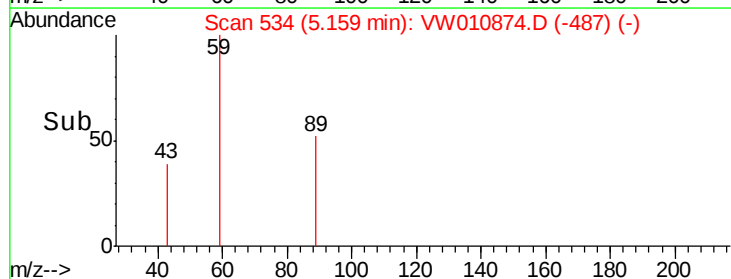
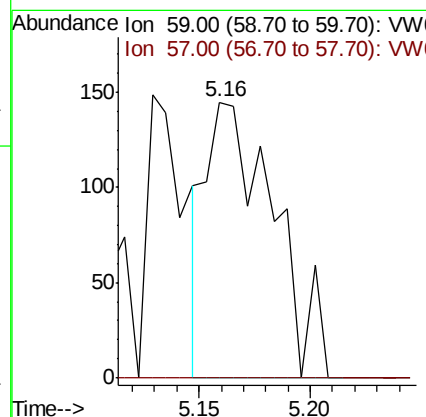
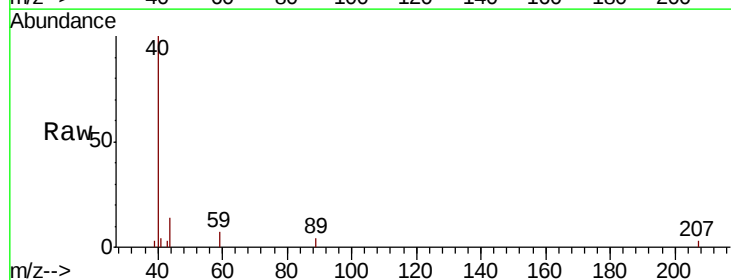
Instrument :  
MSVOA\_W  
ClientSampled :  
BOTTOM-2

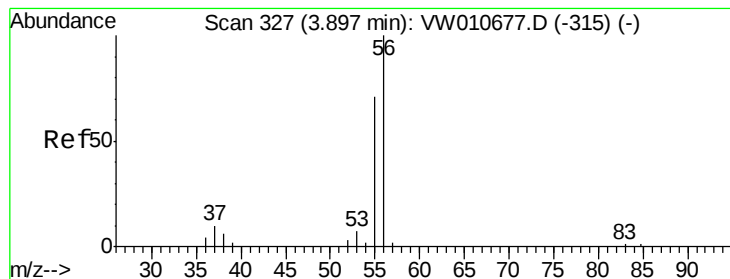
Tot Ion:142 Resp: 30  
Ion Ratio Lower Upper  
142 100  
127 0.0 34.6 51.8#  
141 0.0 11.6 17.4#



#11  
Tert butyl alcohol  
Concen: 10.248 ug/l  
RT: 5.16 min Scan# 534  
Delta R.T. -0.01 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

Tgt Ion: 59 Resp: 305  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#





#13

Acrolein

Concen: 1.727 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.01 min

Lab File: VW010874.D

Acq: 20 Jun 2019 04:28

Instrument :

MSVOA\_W

ClientSampleId :

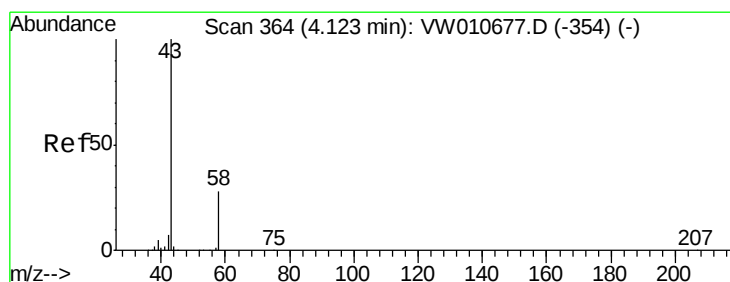
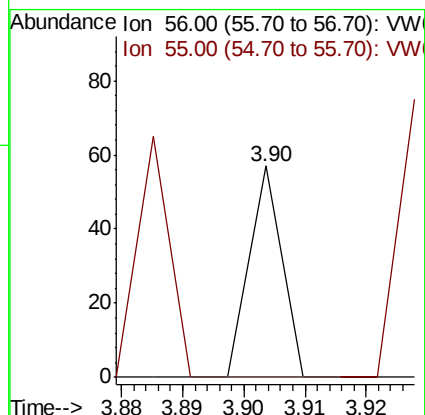
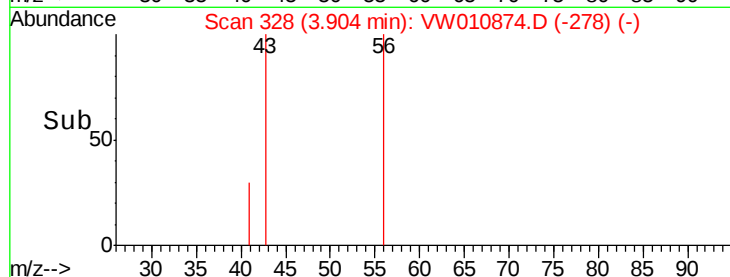
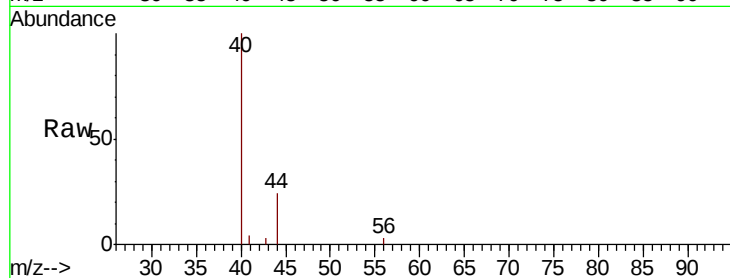
BOTTOM-2

Tot Ion: 56 Resp: 21

Ion Ratio Lower Upper

56 100

55 114.3 57.6 86.4#



#16

Acetone

Concen: 67.811 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010874.D

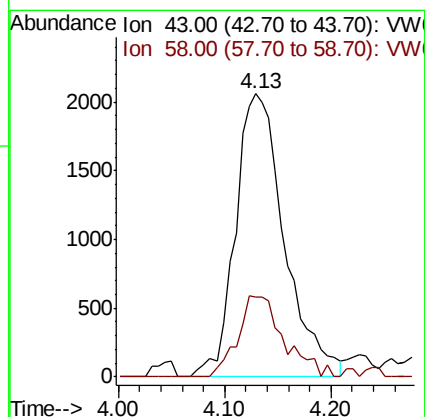
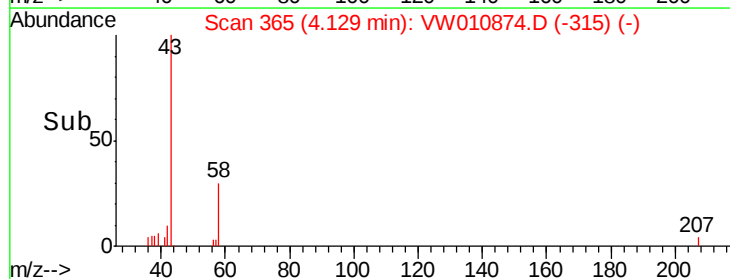
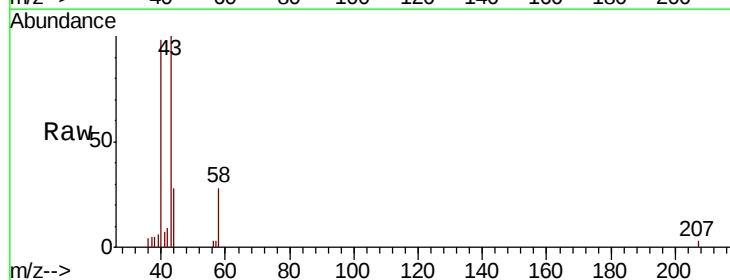
Acq: 20 Jun 2019 04:28

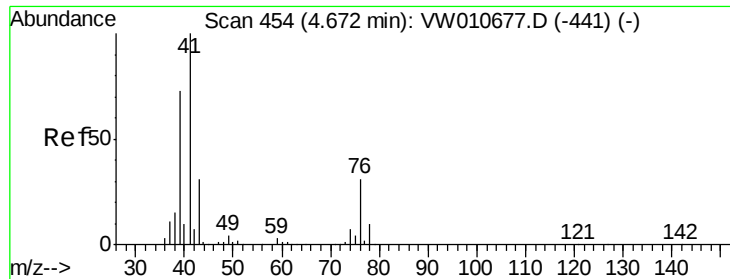
Tgt Ion: 43 Resp: 6638

Ion Ratio Lower Upper

43 100

58 28.3 22.1 33.1

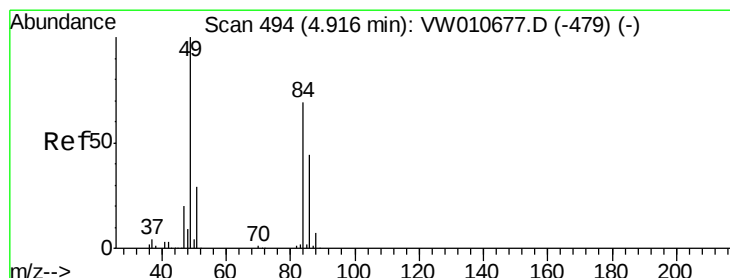
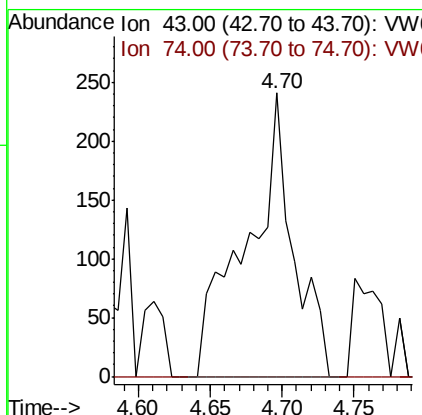
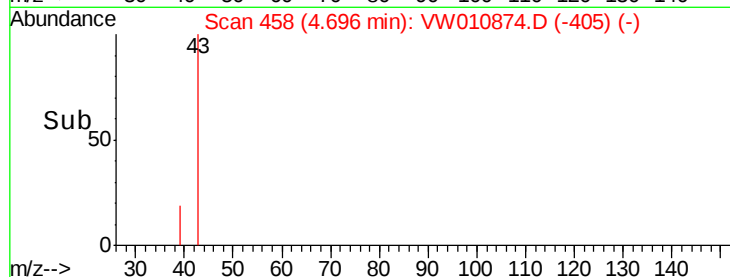
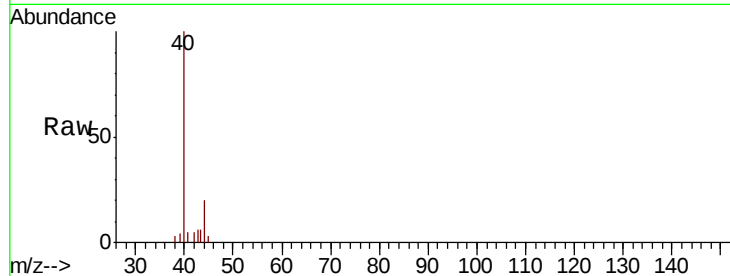




#18  
Methyl Acetate  
Concen: 2.567 ug/l  
RT: 4.70 min Scan# 458  
Delta R.T. 0.02 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

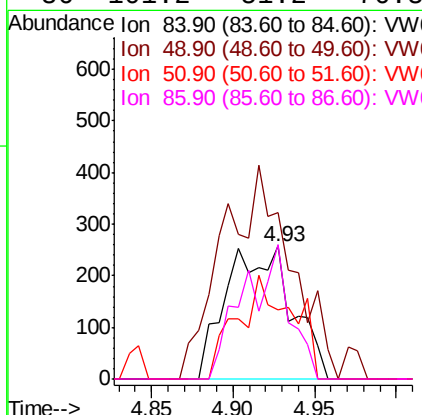
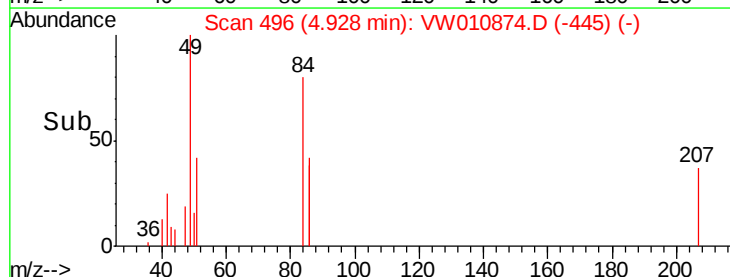
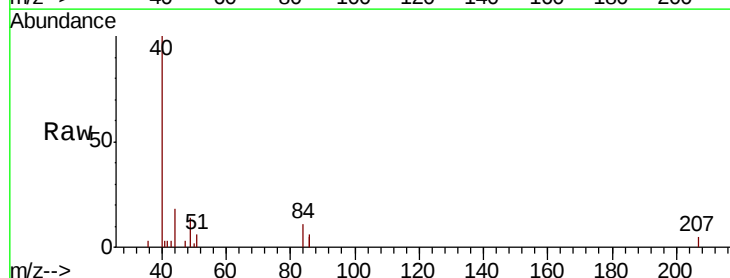
Instrument :  
MSVOA\_W  
ClientSampled :  
BOTTOM-2

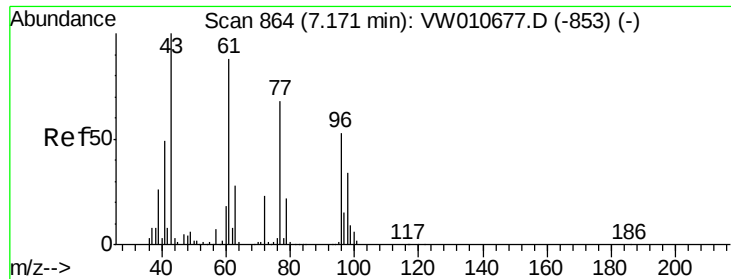
Tot Ion: 43 Resp: 541  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.7 25.1#



#20  
Methylene Chloride  
Concen: 2.088 ug/l  
RT: 4.93 min Scan# 496  
Delta R.T. 0.01 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

Tgt Ion: 84 Resp: 717  
Ion Ratio Lower Upper  
84 100  
49 125.2 116.7 175.1  
51 52.3 34.2 51.2#  
86 101.2 51.2 76.8#





#25

2-Butanone

Concen: 8.251 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW010874.D

Acq: 20 Jun 2019 04:28

Instrument :

MSVOA\_W

ClientSampled :

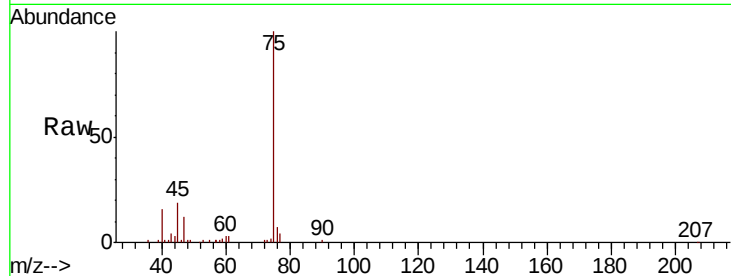
BOTTOM-2

Tot Ion: 43 Resp: 1120

Ion Ratio Lower Upper

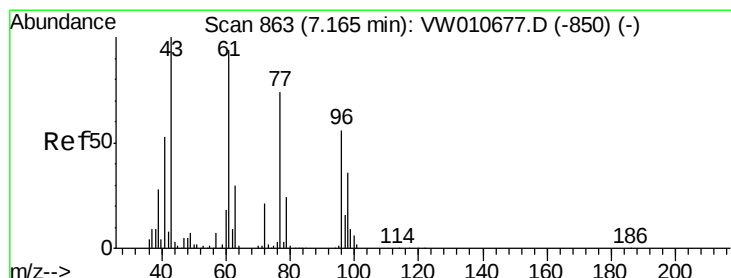
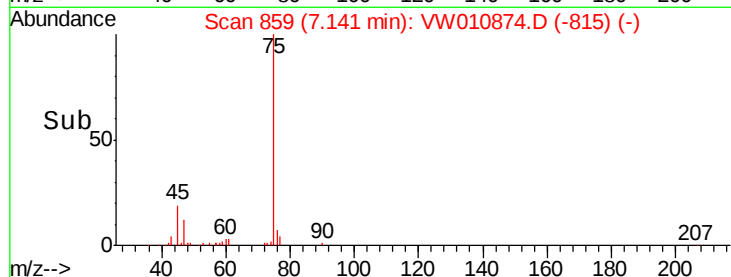
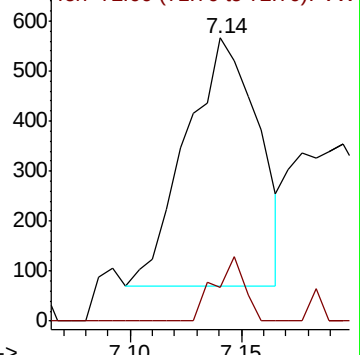
43 100

72 13.7 18.1 27.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 2.806 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW010874.D

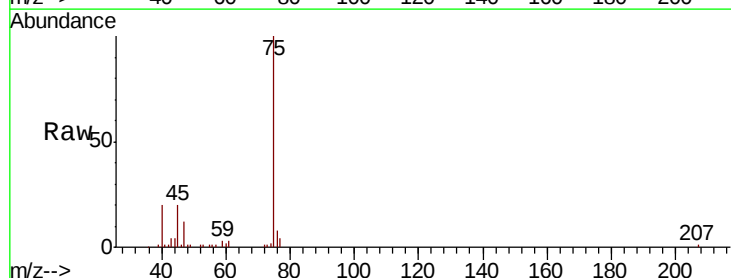
Acq: 20 Jun 2019 04:28

Tgt Ion: 77 Resp: 1514

Ion Ratio Lower Upper

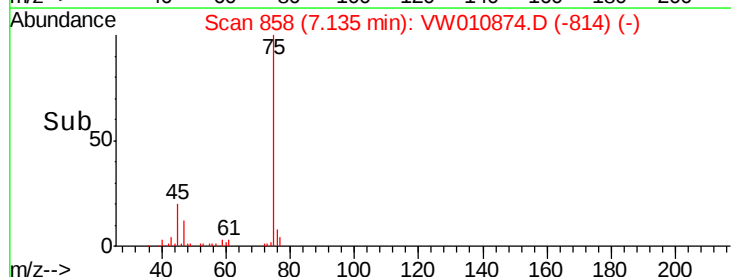
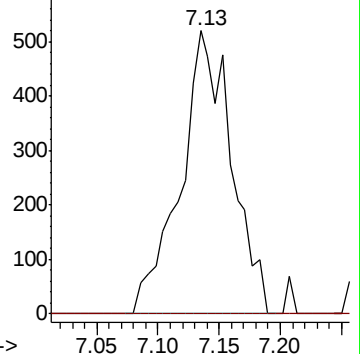
77 100

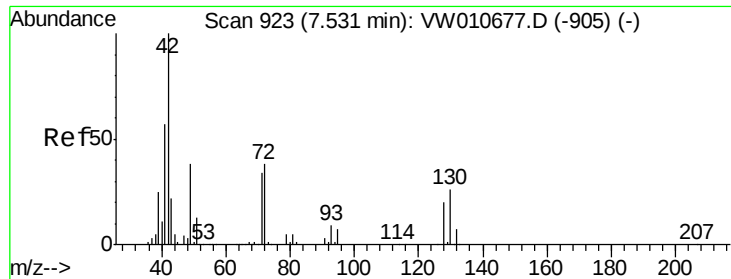
97 0.0 10.5 31.6#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

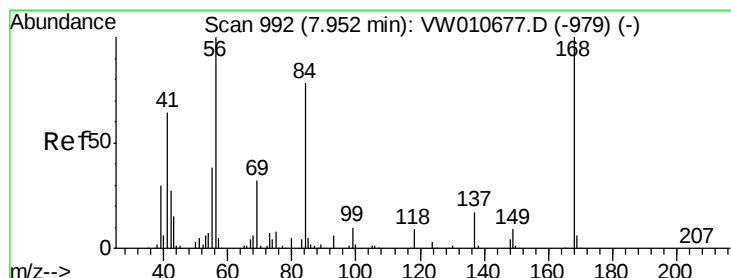
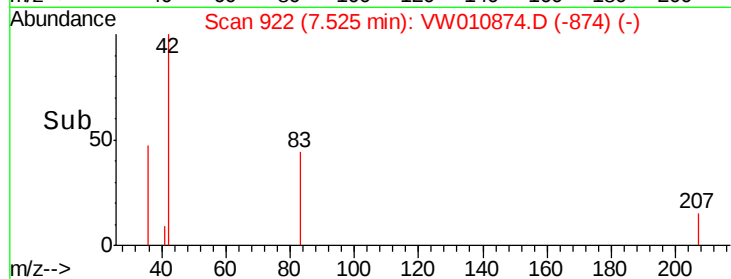
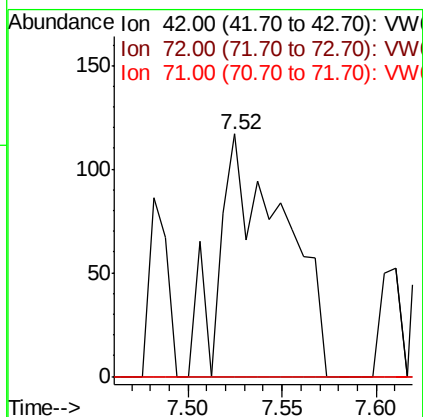
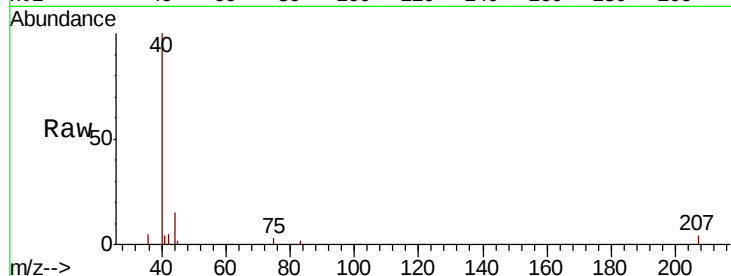




#29  
Tetrahydrofuran  
Concen: 3.291 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

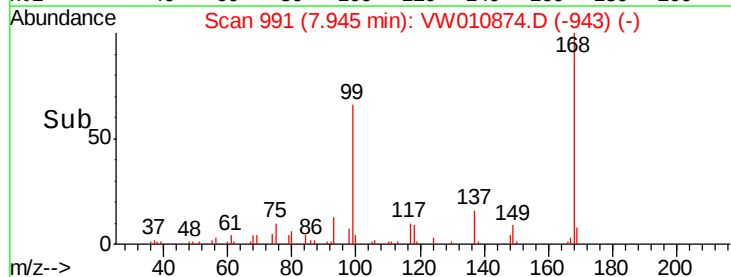
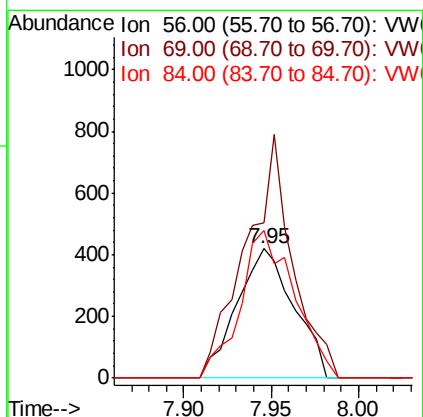
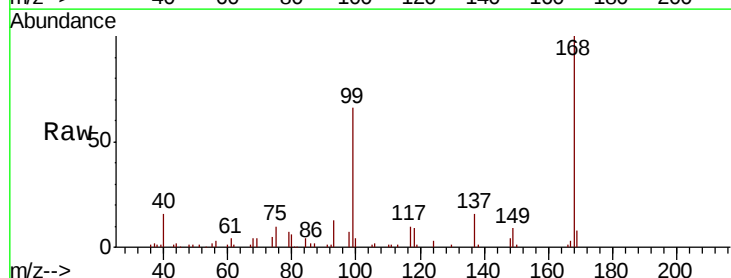
Instrument :  
MSVOA\_W  
ClientSampled :  
BOTTOM-2

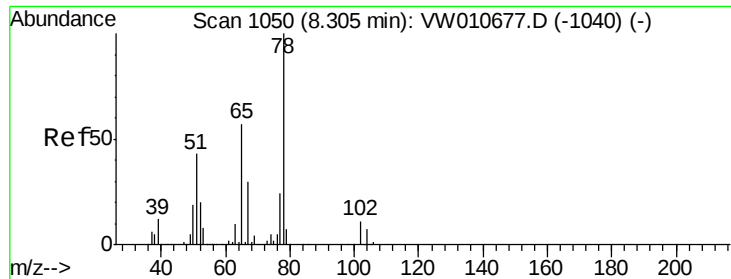
Tot Ion: 42 Resp: 281  
Ion Ratio Lower Upper  
42 100  
72 0.0 28.7 43.1#  
71 0.0 26.6 39.8#



#31  
Cyclohexane  
Concen: 1.287 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

Tgt Ion: 56 Resp: 949  
Ion Ratio Lower Upper  
56 100  
69 119.8 25.2 37.8#  
84 114.0 62.2 93.2#

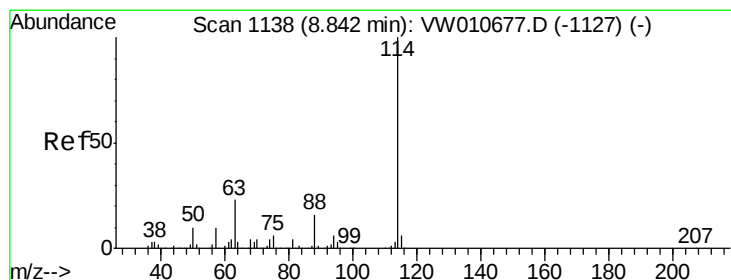
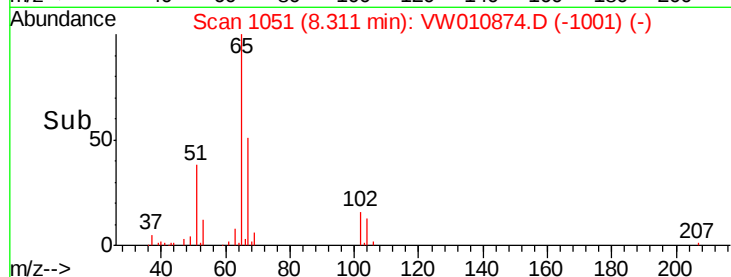
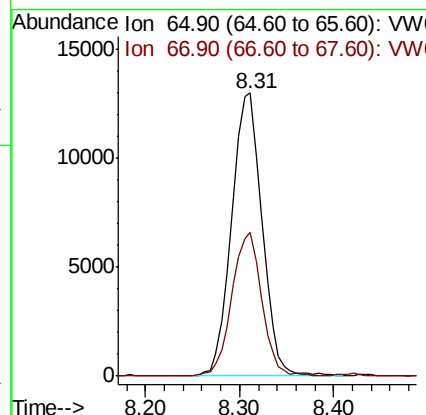
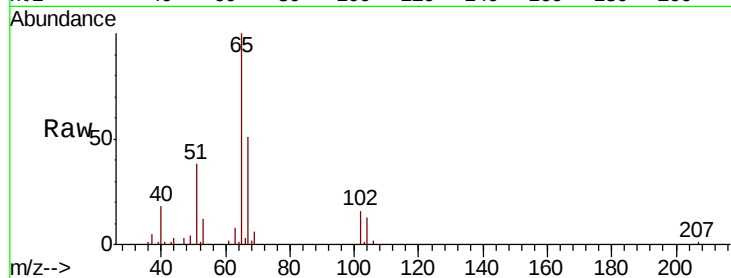




#33  
 1,2-Dichloroethane-d4  
 Concen: 80.076 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.01 min  
 Lab File: VW010874.D  
 Acq: 20 Jun 2019 04:28

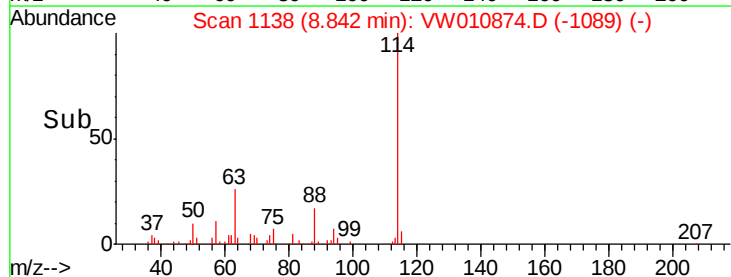
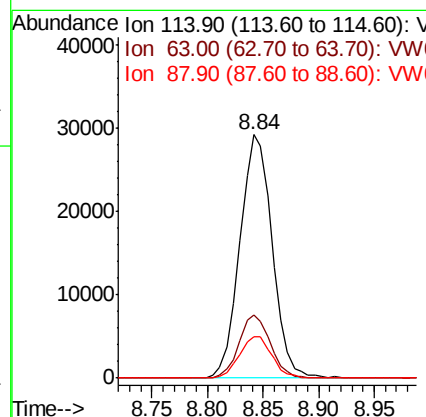
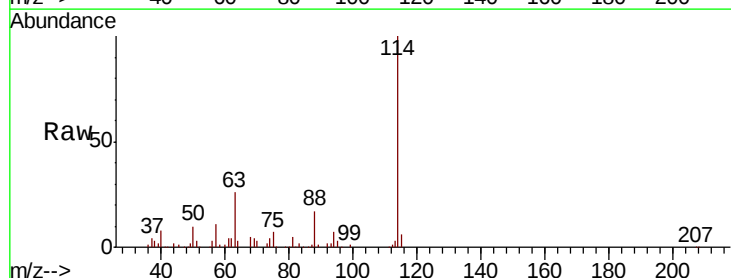
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BOTTOM-2

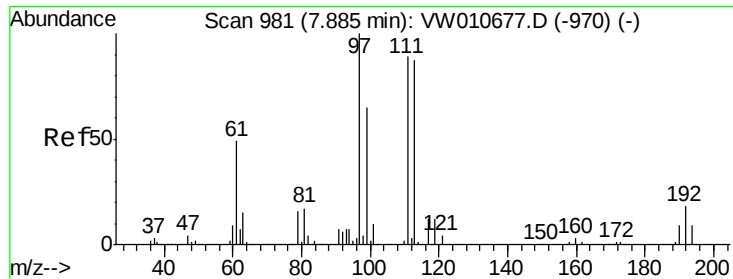
Tot Ion: 65 Resp: 29254  
 Ion Ratio Lower Upper  
 65 100  
 67 49.7 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW010874.D  
 Acq: 20 Jun 2019 04:28

Tgt Ion: 114 Resp: 58713  
 Ion Ratio Lower Upper  
 114 100  
 63 26.0 0.0 46.4  
 88 17.0 0.0 32.2

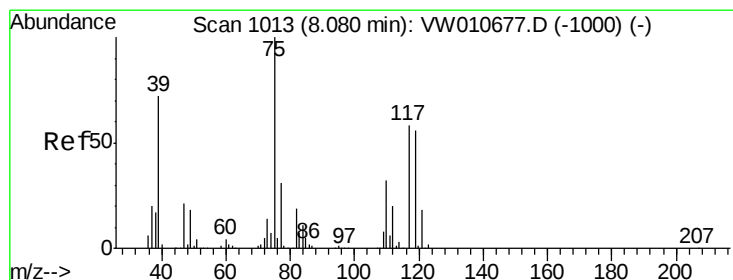
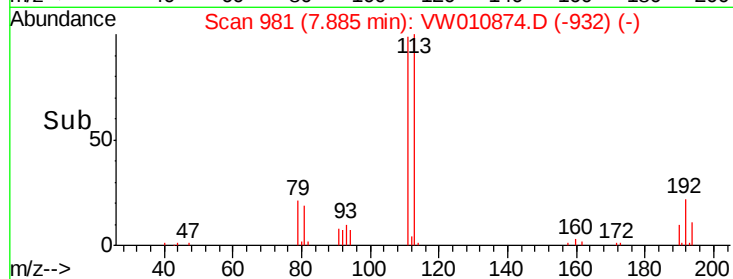
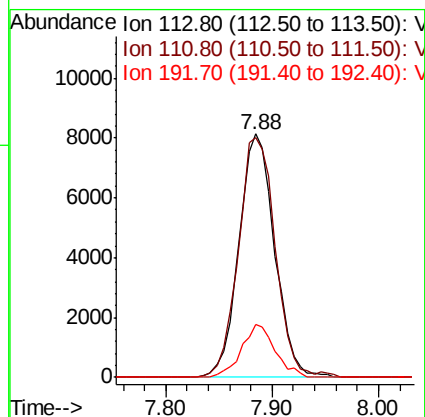
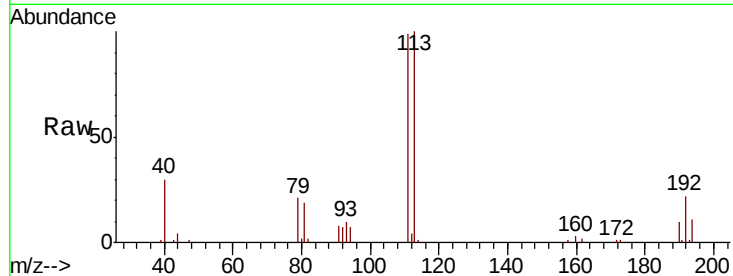




#35  
 Dibromofluoromethane  
 Concen: 60.116 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW010874.D  
 Acq: 20 Jun 2019 04:28

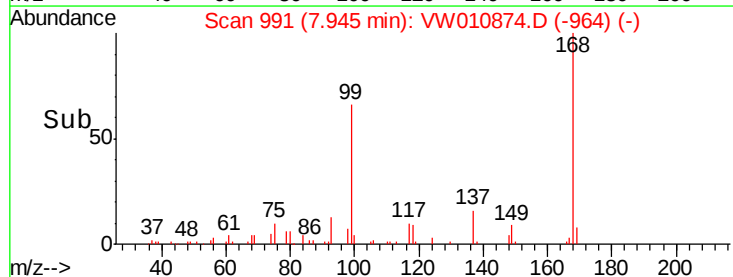
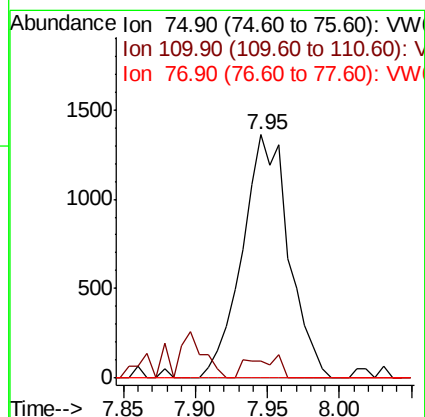
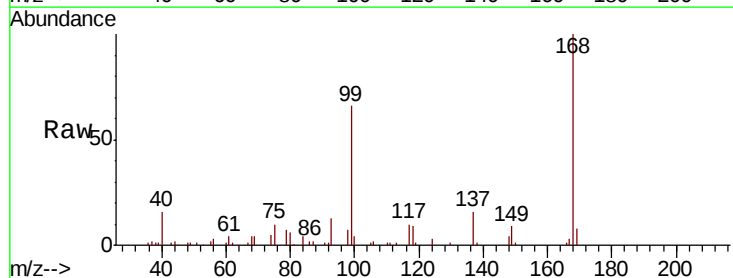
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BOTTOM-2

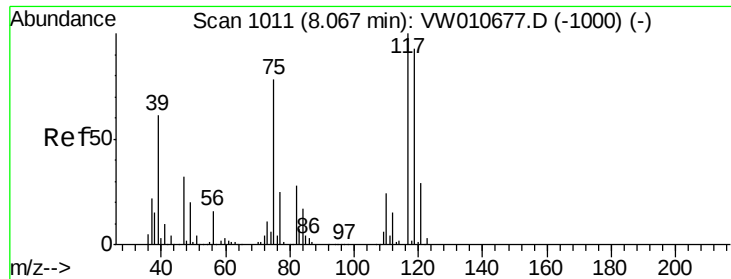
Tot Ion:113 Resp: 19158  
 Ion Ratio Lower Upper  
 113 100  
 111 102.0 82.6 123.8  
 192 20.3 16.4 24.6



#36  
 1,1-Dichloropropene  
 Concen: 5.083 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW010874.D  
 Acq: 20 Jun 2019 04:28

Tgt Ion: 75 Resp: 3055  
 Ion Ratio Lower Upper  
 75 100  
 110 5.9 15.8 47.3#  
 77 0.0 24.7 37.1#

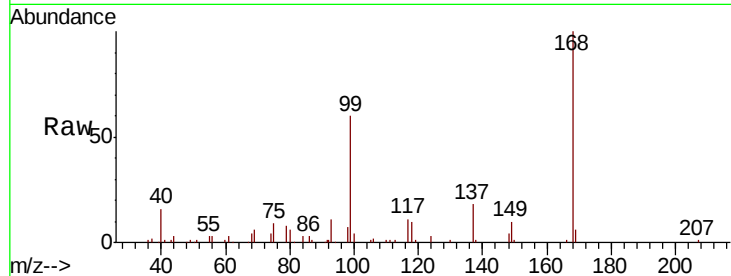




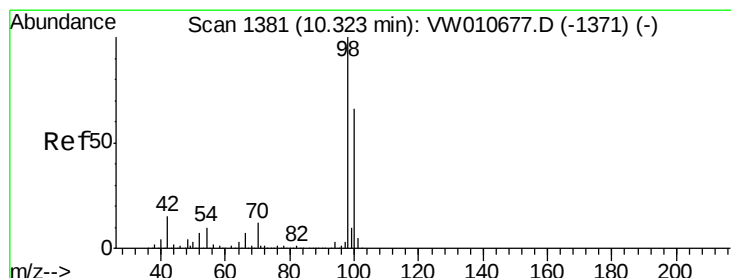
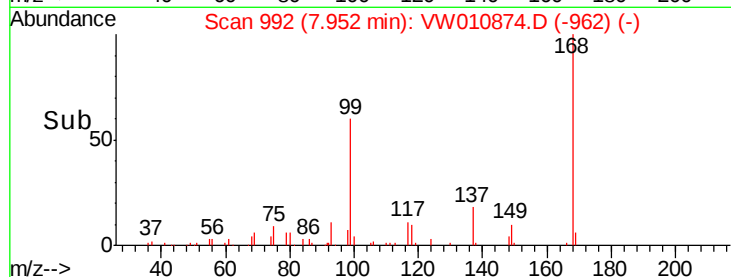
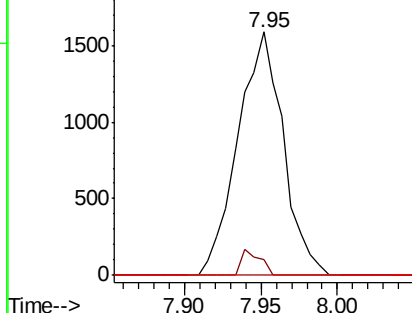
#38  
Carbon Tetrachloride  
Concen: 6.309 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

Instrument :  
MSVOA\_W  
ClientSampleId :  
BOTTOM-2

Tot Ion:117 Resp: 3273  
Ion Ratio Lower Upper  
117 100  
119 6.5 74.2 111.4#  
121 0.0 22.9 34.3#

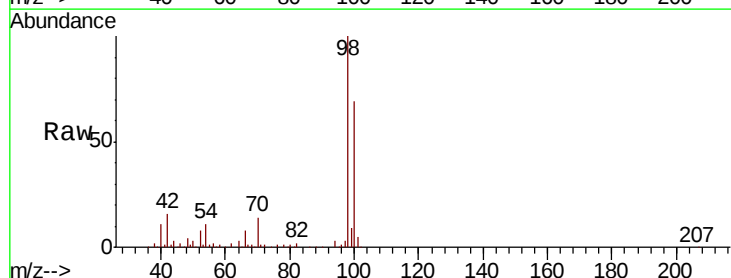


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

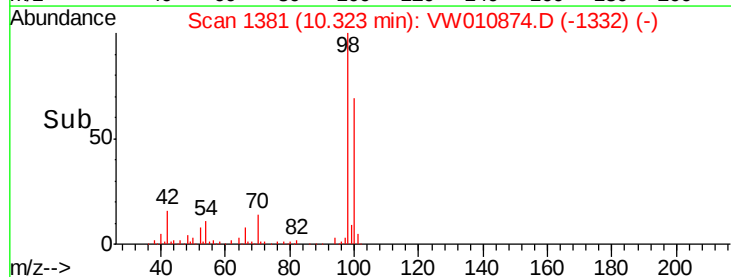
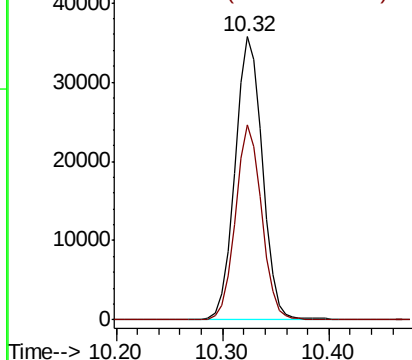


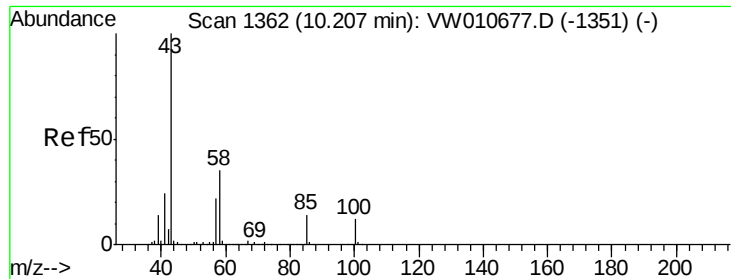
#50  
Toluene-d8  
Concen: 46.129 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

Tgt Ion: 98 Resp: 64463  
Ion Ratio Lower Upper  
98 100  
100 66.1 53.0 79.6



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

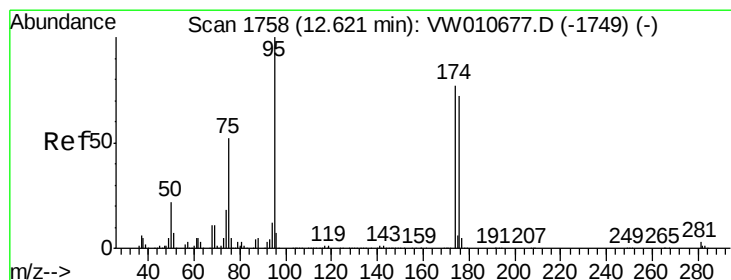
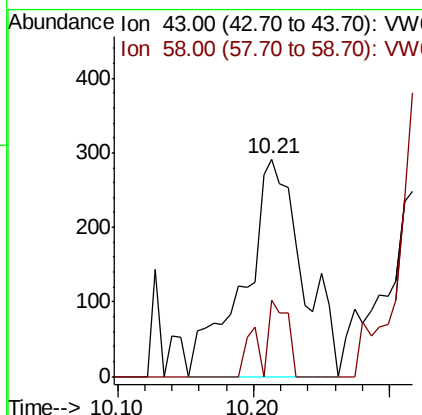
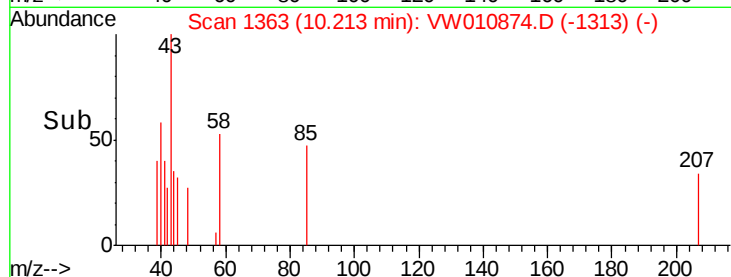
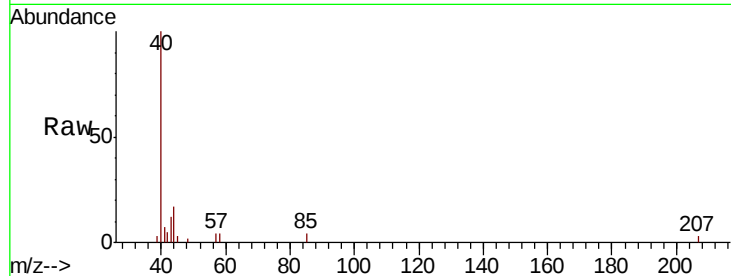




#51  
 4-Methyl-2-Pentanone  
 Concen: 2.656 ug/l  
 RT: 10.21 min Scan# 1363  
 Delta R.T. 0.01 min  
 Lab File: VW010874.D  
 Acq: 20 Jun 2019 04:28

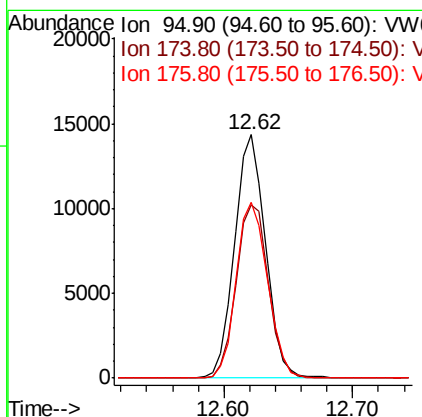
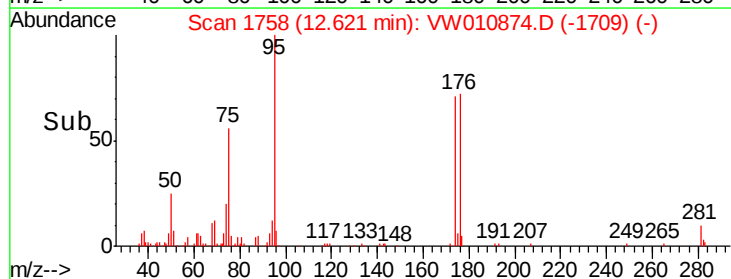
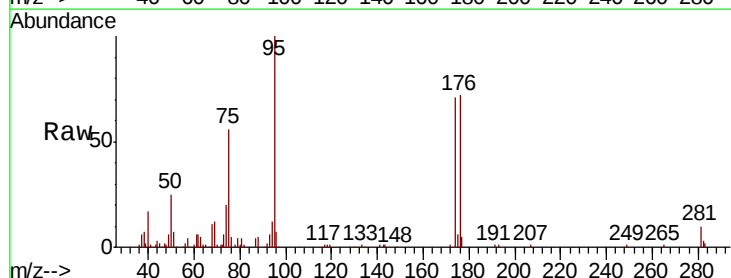
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BOTTOM-2

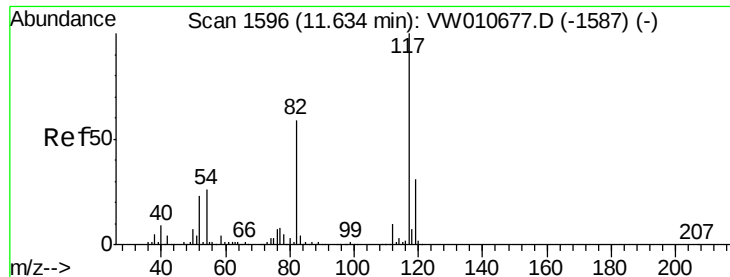
Tot Ion: 43 Resp: 873  
 Ion Ratio Lower Upper  
 43 100  
 58 11.5 28.4 42.6#



#62  
 4-Bromofluorobenzene  
 Concen: 47.033 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.00 min  
 Lab File: VW010874.D  
 Acq: 20 Jun 2019 04:28

Tgt Ion: 95 Resp: 23917  
 Ion Ratio Lower Upper  
 95 100  
 174 73.7 0.0 150.4  
 176 73.2 0.0 144.8

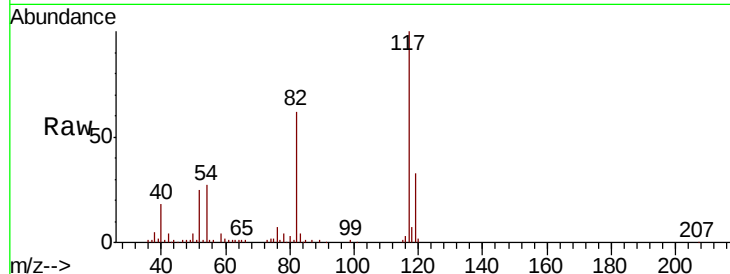




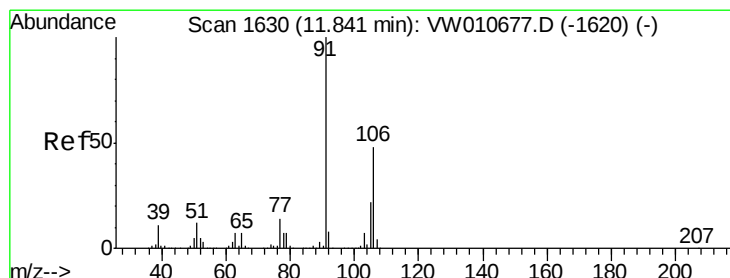
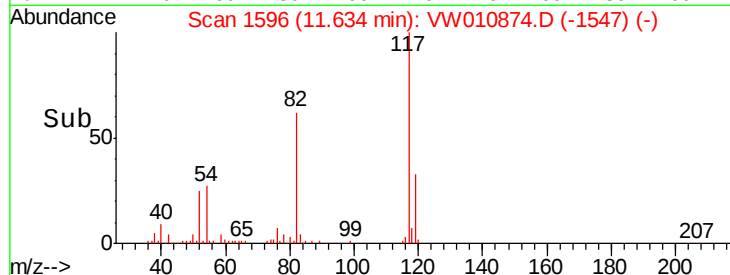
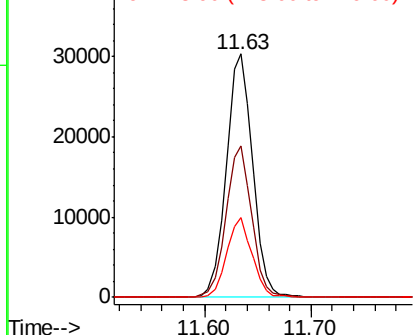
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

Instrument :  
MSVOA\_W  
ClientSampleId :  
BOTTOM-2

Tot Ion:117 Resp: 52605  
Ion Ratio Lower Upper  
117 100  
82 62.2 47.0 70.4  
119 32.5 25.1 37.7

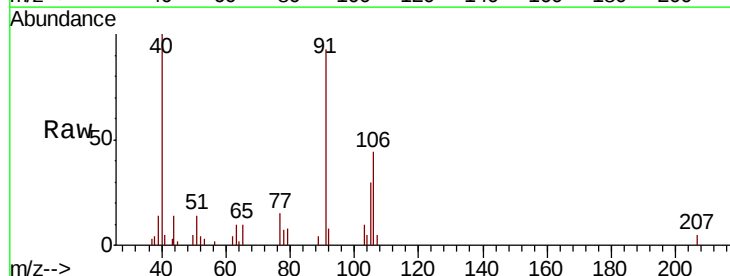


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

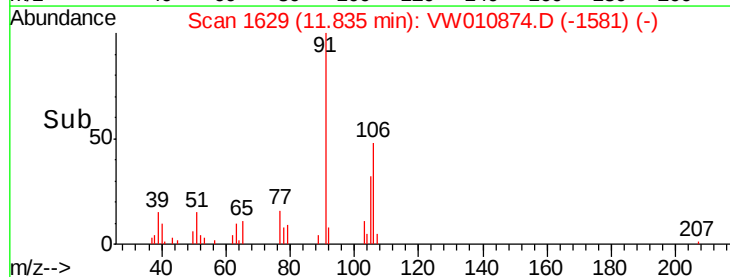
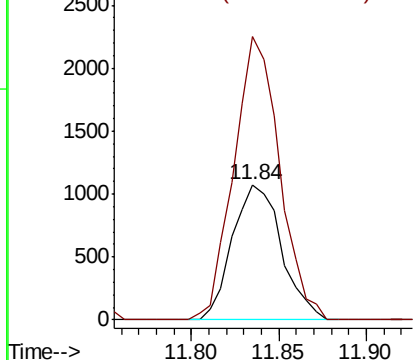


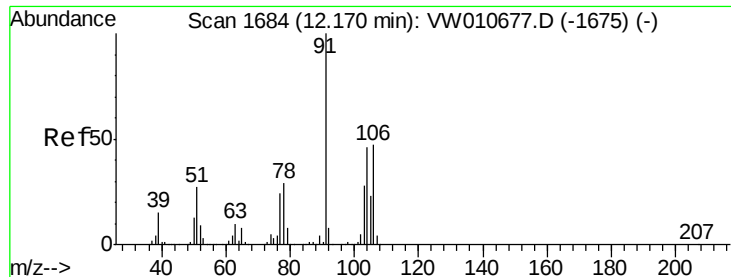
#68  
m/p-Xylenes  
Concen: 2.941 ug/l  
RT: 11.84 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

Tgt Ion:106 Resp: 2093  
Ion Ratio Lower Upper  
106 100  
91 195.6 166.5 249.7



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

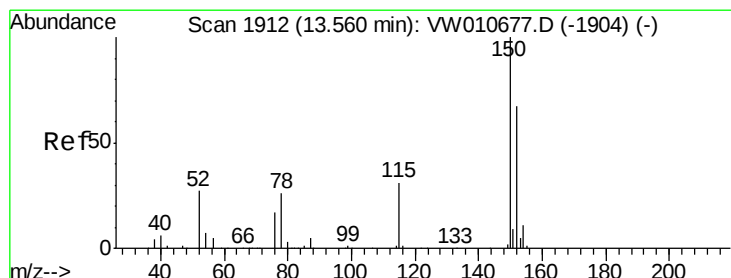
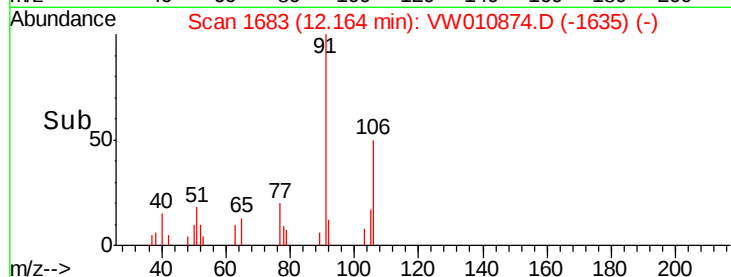
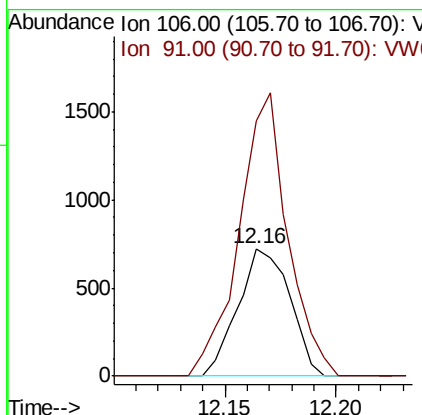
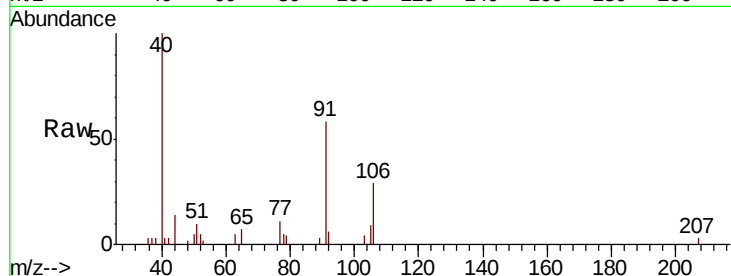




#69  
o-Xylene  
Concen: 1.732 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

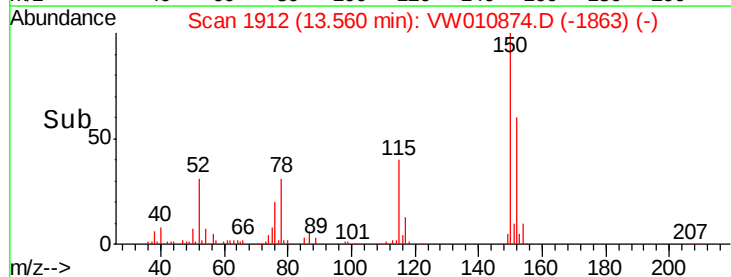
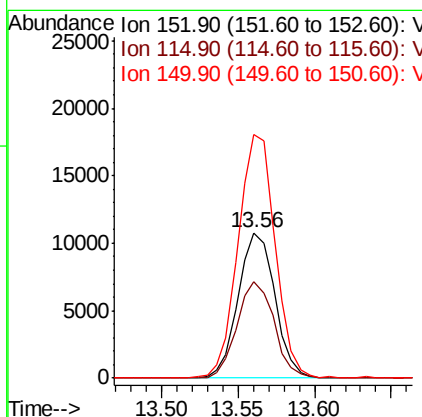
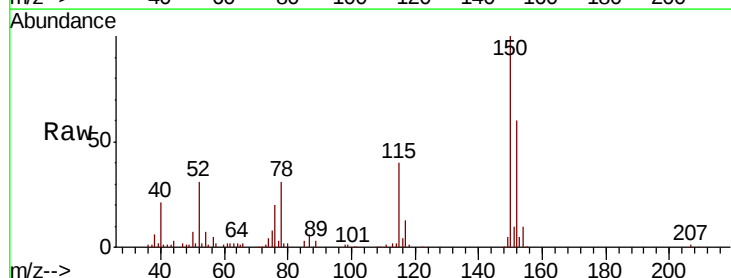
Instrument :  
MSVOA\_W  
ClientSampled :  
BOTTOM-2

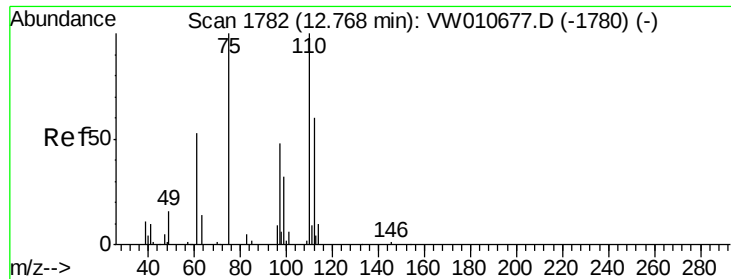
Tot Ion:106 Resp: 1169  
Ion Ratio Lower Upper  
106 100  
91 208.8 108.9 326.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW010874.D  
Acq: 20 Jun 2019 04:28

Tgt Ion:152 Resp: 18038  
Ion Ratio Lower Upper  
152 100  
115 66.3 29.8 89.3  
150 168.1 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 69.236 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010874.D

Acq: 20 Jun 2019 04:28

Instrument :

MSVOA\_W

ClientSampleId :

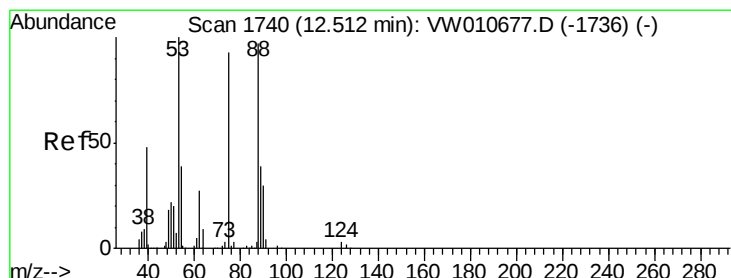
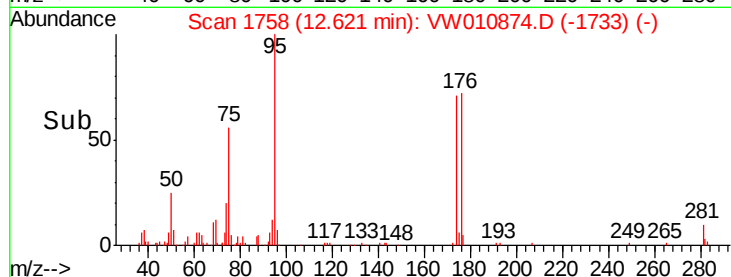
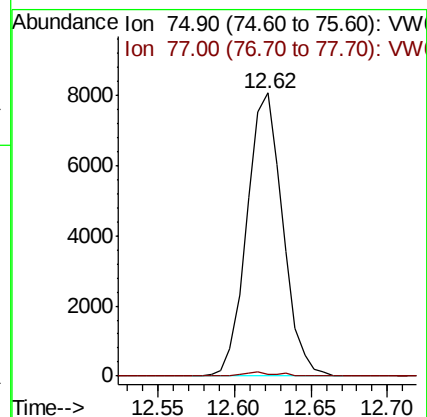
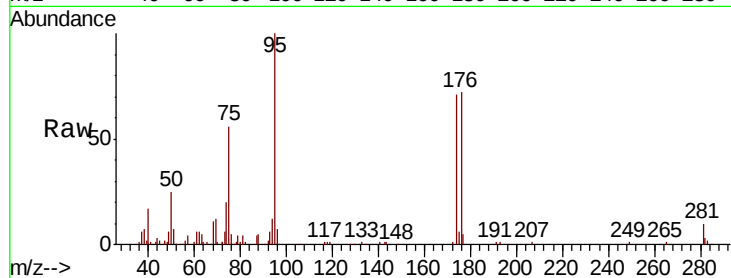
BOTTOM-2

Tot Ion: 75 Resp: 13115

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 159.128 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010874.D

Acq: 20 Jun 2019 04:28

Tgt Ion: 75 Resp: 13115

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.3 34.6 52.0#

