

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102919\  
 Data File : VN059006.D  
 Acq On : 29 Oct 2019 13:33  
 Operator : JC/SP  
 Sample : K5149-12  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 30 03:56:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 19 00:16:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 399920   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 617930   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 552809   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 200346   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 266764   | 45.48 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.96% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 201539   | 49.61 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.22% |          |
| 50) Toluene-d8              | 10.08 | 98   | 781266   | 49.54 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.08% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 247772   | 42.78 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.56% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 8) Diethyl Ether               | 3.39  | 74   | 691      | 0.264  | ug/l   | 49     |
| 11) Tert butyl alcohol         | 4.72  | 59   | 621      | 0.638  | ug/l # | 72     |
| 13) Acrolein                   | 3.59  | 56   | 213      | 0.318  | ug/l # | 31     |
| 16) Acetone                    | 3.80  | 43   | 21223    | 7.322  | ug/l   | 95     |
| 18) Methyl Acetate             | 4.31  | 43   | 10632    | 1.613  | ug/l   | 93     |
| 20) Methylene Chloride         | 4.53  | 84   | 393476   | 79.506 | ug/l   | 96     |
| 25) 2-Butanone                 | 6.82  | 43   | 3286     | 0.873  | ug/l   | 94     |
| 29) Tetrahydrofuran            | 7.19  | 42   | 678      | 0.295  | ug/l # | 70     |
| 30) Chloroform                 | 7.35  | 83   | 6948     | 0.766  | ug/l   | 99     |
| 31) Cyclohexane                | 7.64  | 56   | 8853     | 1.050  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 31077    | 4.912  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.65  | 117  | 38306    | 5.878  | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.15  | 43   | 105716   | 9.563  | ug/l # | 91     |
| 45) 1,2-Dichloropropane        | 9.25  | 63   | 2503     | 0.491  | ug/l # | 44     |
| 47) Bromodichloromethane       | 9.39  | 83   | 1584     | 0.239  | ug/l # | 91     |
| 48) Methyl methacrylate        | 9.17  | 41   | 6246     | 1.245  | ug/l # | 14     |
| 49) 1,4-Dioxane                | 9.25  | 88   | 153      | 1.858  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 7488     | 1.160  | ug/l   | 100    |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75   | 41781    | 5.322  | ug/l # | 63     |
| 56) Ethyl methacrylate         | 10.54 | 69   | 1964     | 2.344  | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.76 | 76   | 7147     | 0.897  | ug/l # | 43     |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 29       | 5.672  | ug/l # | 50     |
| 59) 2-Hexanone                 | 10.76 | 43   | 117842   | 23.617 | ug/l # | 54     |
| 68) m/p-Xylenes                | 11.62 | 106  | 1571     | 0.215  | ug/l   | 81     |
| 70) Styrene                    | 11.97 | 104  | 1083     | 1.795  | ug/l   | 93     |
| 74) N-amyl acetate             | 12.03 | 43   | 3435     | 0.517  | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 127504   | 27.460 | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 7268     | 0.591  | ug/l   | 96     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 127504   | 71.536 | ug/l # | 10     |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 10887    | 0.897  | ug/l   | 98     |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146  | 1451     | 0.225  | ug/l # | 82     |
| 88) 1,4-Dichlorobenzene        | 13.37 | 146  | 1873     | 0.290  | ug/l # | 20     |
| 89) n-Butylbenzene             | 13.62 | 91   | 2674     | 0.235  | ug/l # | 83     |
| 90) Hexachloroethane           | 13.89 | 117  | 725      | 0.289  | ug/l # | 11     |

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ClientSampleId :

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 19 00:16:20 2019  
Response via : Initial Calibration

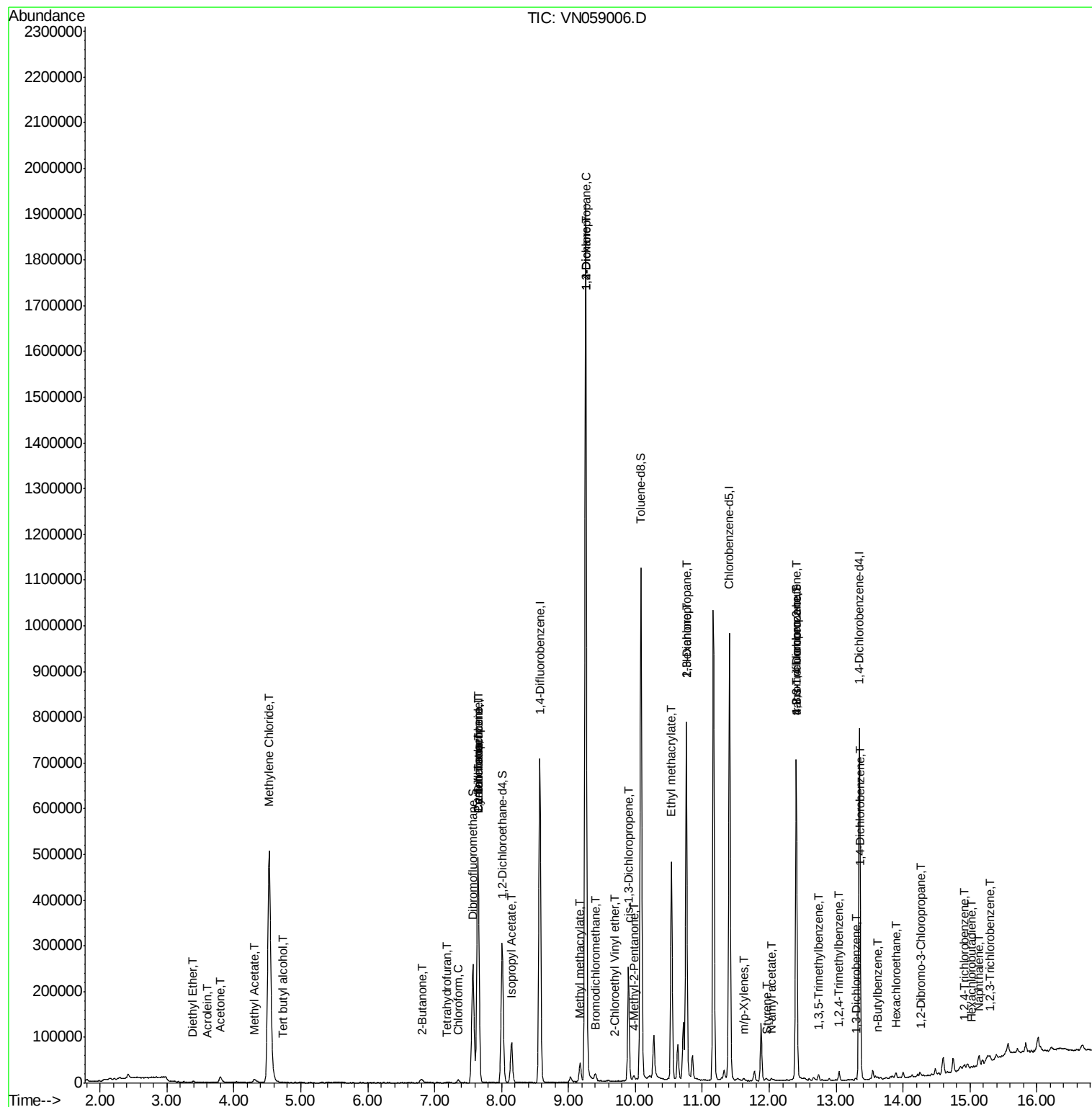
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 586      | 0.503 | ug/l # | 26       |
| 93) 1,2,4-Trichlorobenzene     | 14.92 | 180  | 2342     | 3.078 | ug/l # | 78       |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 573      | 0.279 | ug/l   | 75       |
| 95) Naphthalene                | 15.13 | 128  | 16259    | 3.579 | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 2938     | 3.114 | ug/l # | 76       |

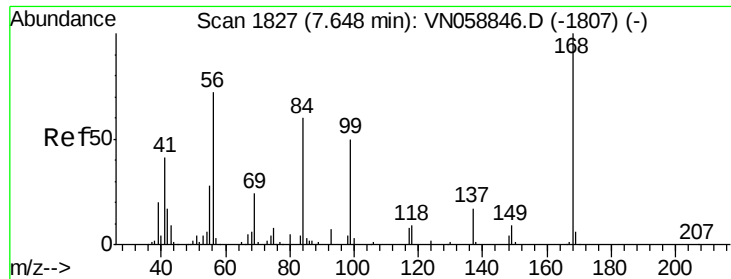
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN102919\  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

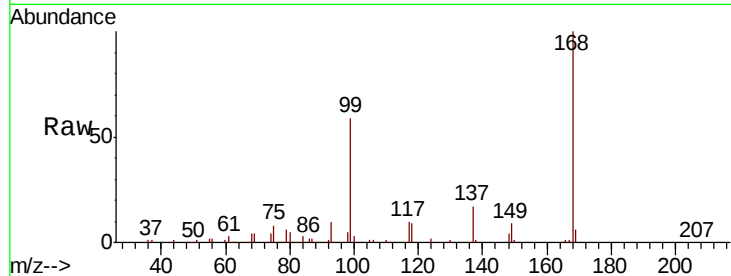
ClientSampled :

Tot Ion:168 Resp: 399920

Ion Ratio Lower Upper

168 100

99 59.4 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

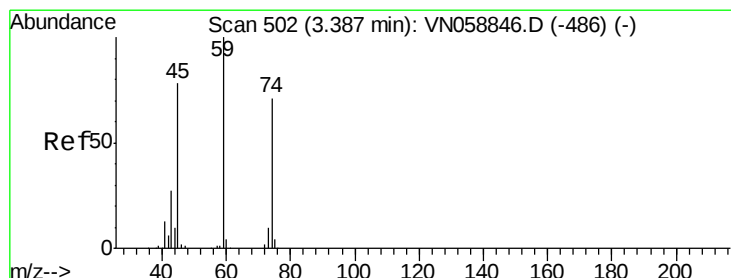
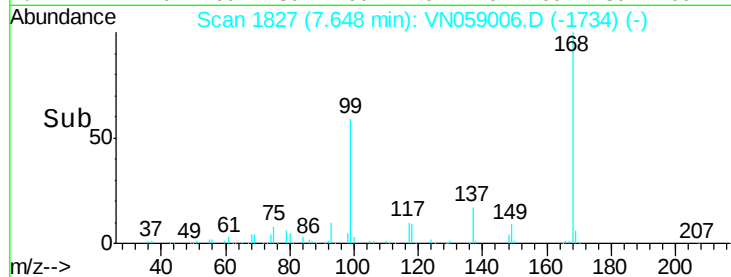
100000

50000

0

7.60 7.70

Time-->



#8

Diethyl Ether

Concen: 0.264 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN059006.D

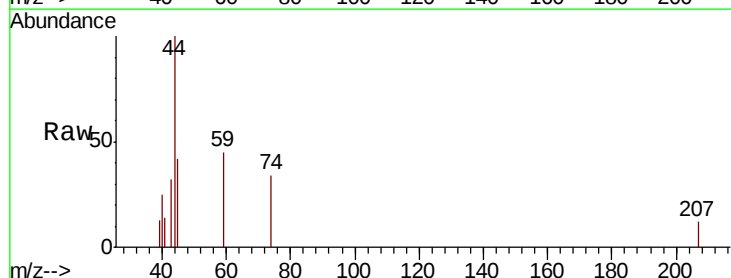
Acq: 29 Oct 2019 13:33

Tgt Ion: 74 Resp: 691

Ion Ratio Lower Upper

74 100

45 163.4 54.9 164.5



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.39

600

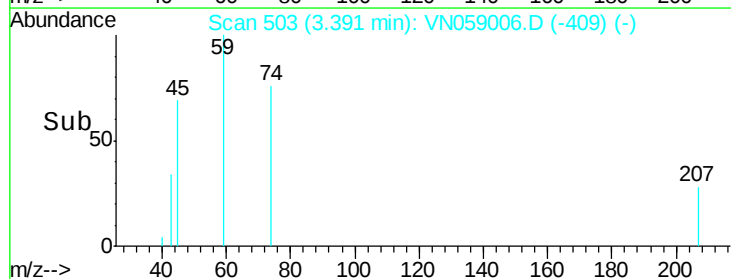
400

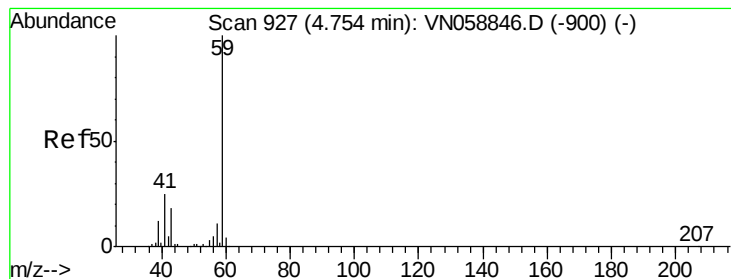
200

0

3.36 3.38 3.40 3.42

Time-->



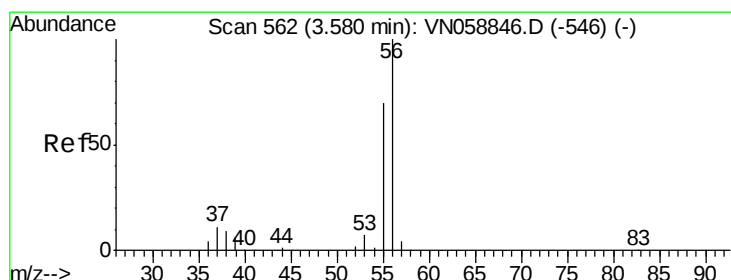
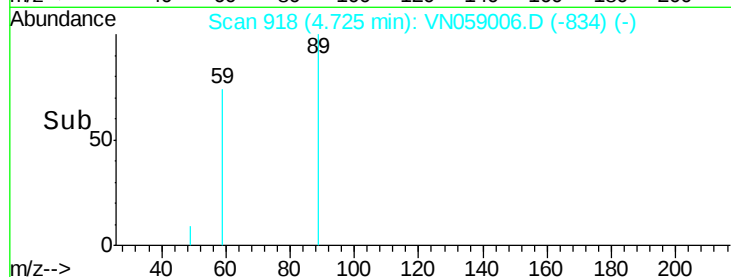
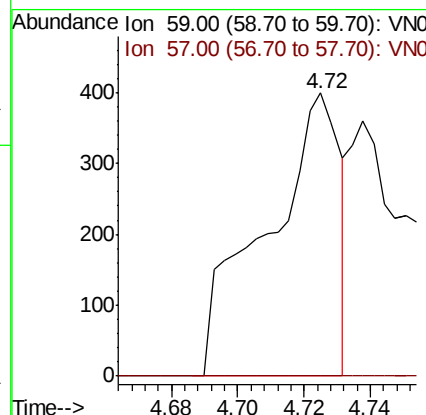
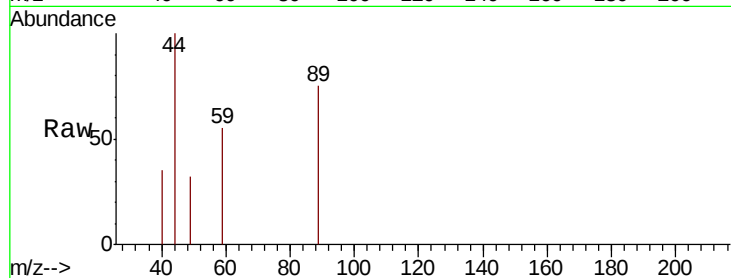


#11

Tert butyl alcohol  
Concen: 0.638 ug/l  
RT: 4.72 min Scan# 918  
Delta R.T. -0.03 min  
Lab File: VN059006.D  
Acq: 29 Oct 2019 13:33

Instrument :  
MSVOA\_N  
ClientSampled :

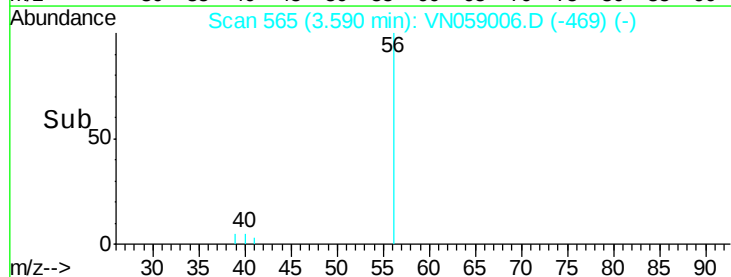
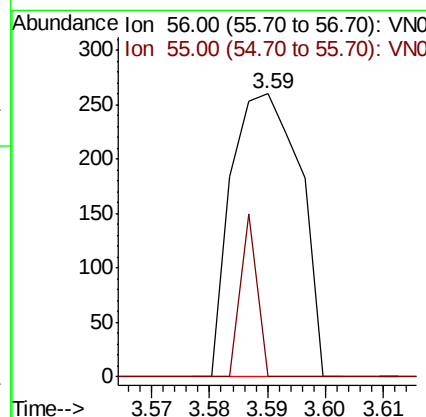
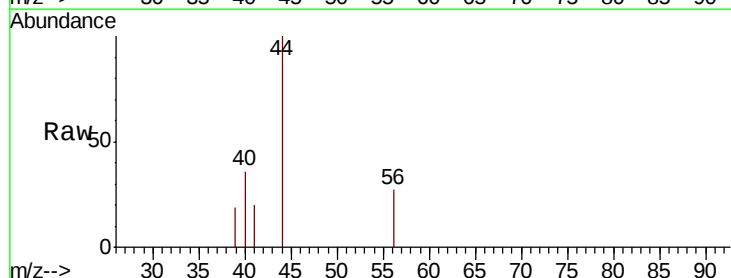
Tot Ion: 59 Resp: 621  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#

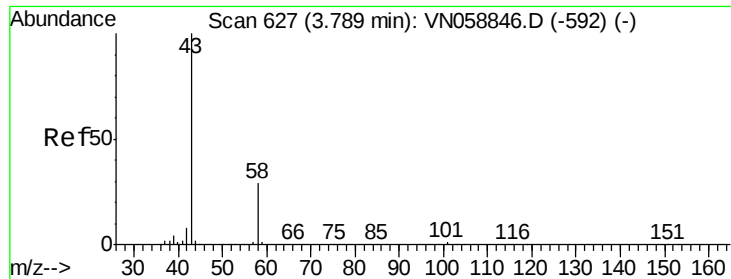


#13

Acrolein  
Concen: 0.318 ug/l  
RT: 3.59 min Scan# 565  
Delta R.T. 0.01 min  
Lab File: VN059006.D  
Acq: 29 Oct 2019 13:33

Tgt Ion: 56 Resp: 213  
Ion Ratio Lower Upper  
56 100  
55 13.6 56.6 85.0#

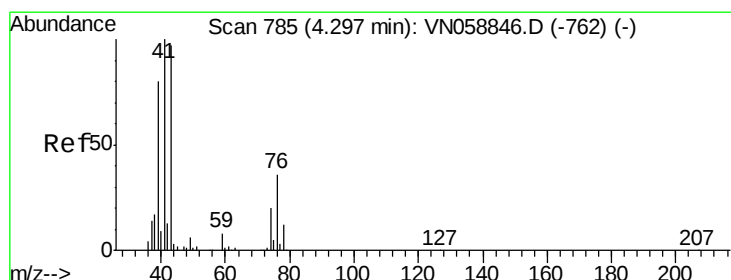
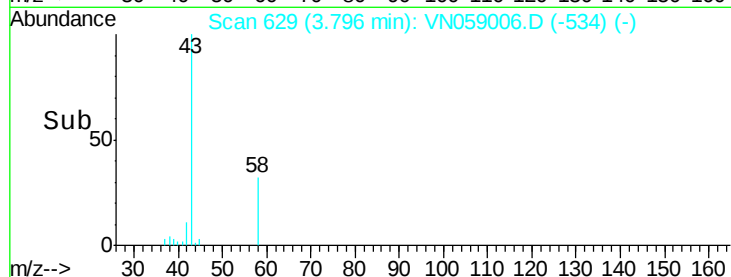
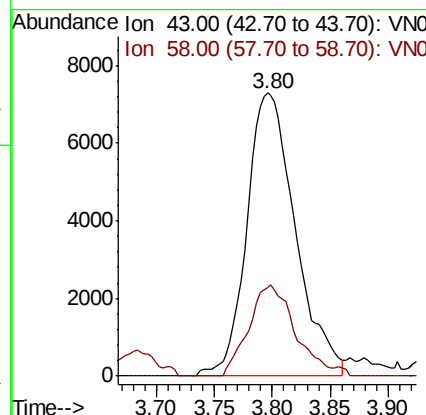
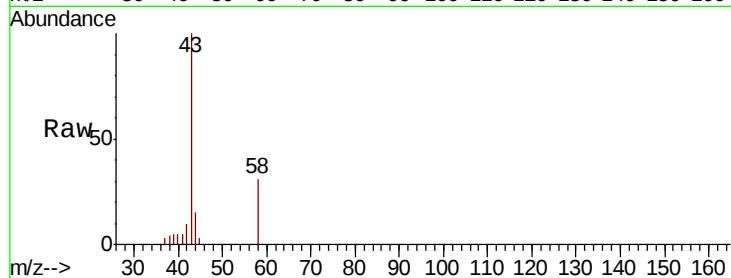




#16  
Acetone  
Concen: 7.322 ug/l  
RT: 3.80 min Scan# 629  
Delta R.T. 0.01 min  
Lab File: VN059006.D  
Acq: 29 Oct 2019 13:33

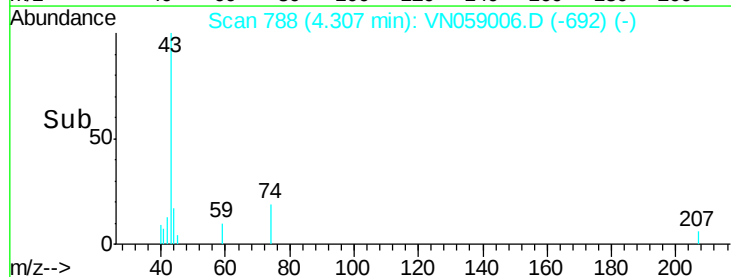
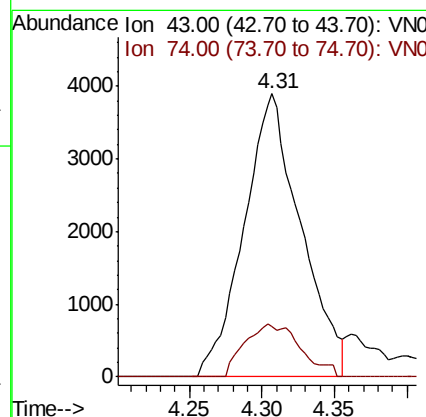
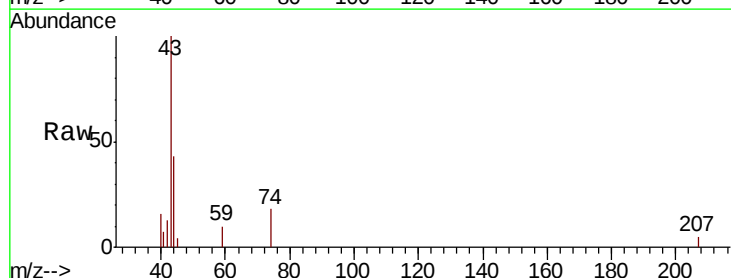
Instrument :  
MSVOA\_N  
ClientSampled :

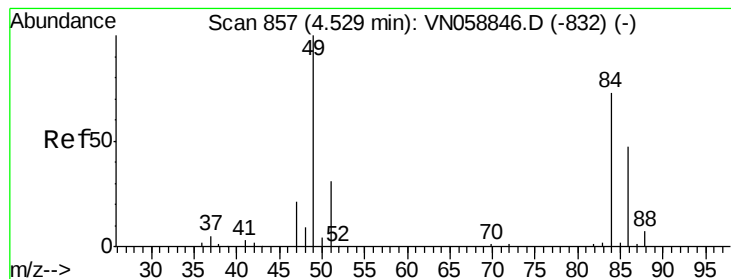
Tot Ion: 43 Resp: 21223  
Ion Ratio Lower Upper  
43 100  
58 31.5 23.1 34.7



#18  
Methyl Acetate  
Concen: 1.613 ug/l  
RT: 4.31 min Scan# 788  
Delta R.T. 0.01 min  
Lab File: VN059006.D  
Acq: 29 Oct 2019 13:33

Tgt Ion: 43 Resp: 10632  
Ion Ratio Lower Upper  
43 100  
74 18.2 17.1 25.7





#20

Methvlene Chloride

Concen: 79.506 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampled :

Tot Ion: 84 Resp: 393476

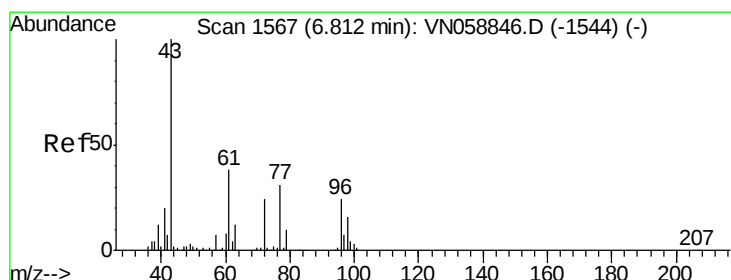
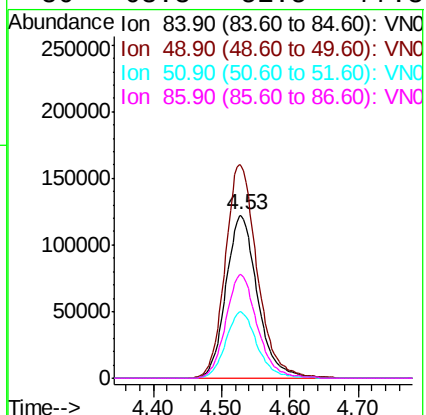
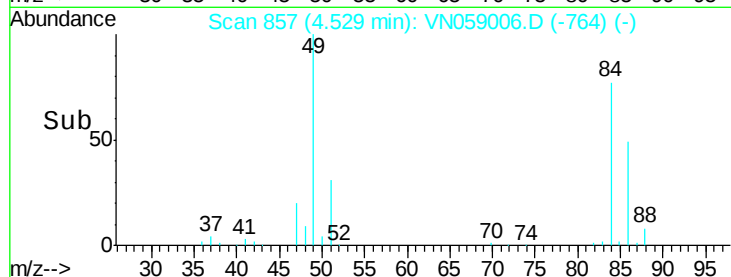
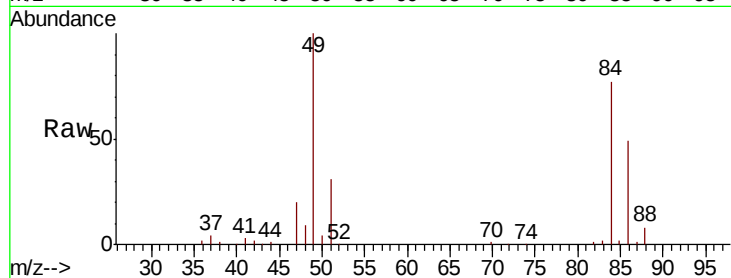
Ion Ratio Lower Upper

84 100

49 130.5 109.6 164.4

51 40.7 33.8 50.6

86 63.3 51.5 77.3



#25

2-Butanone

Concen: 0.873 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN059006.D

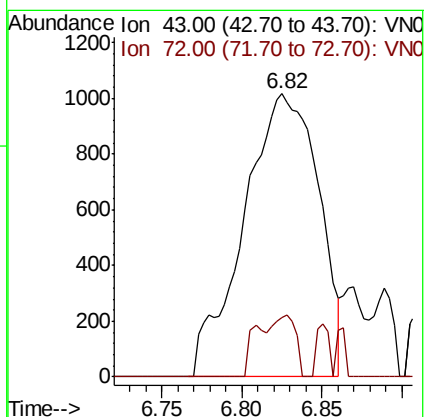
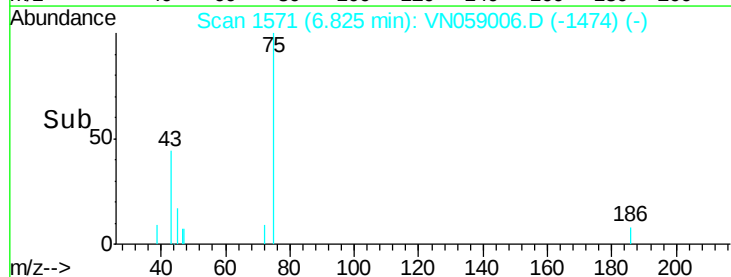
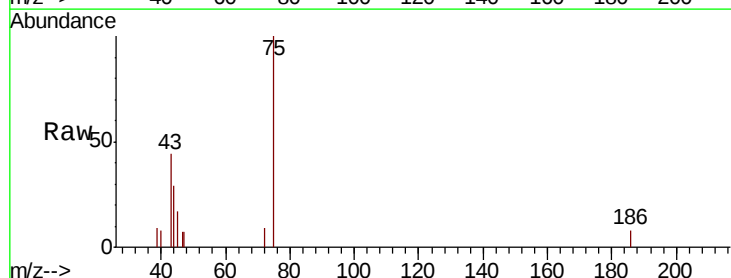
Acq: 29 Oct 2019 13:33

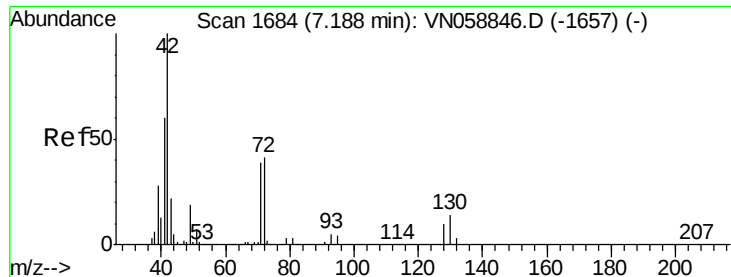
Tgt Ion: 43 Resp: 3286

Ion Ratio Lower Upper

43 100

72 21.2 19.1 28.7





#29

Tetrahydrofuran

Concen: 0.295 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampled :

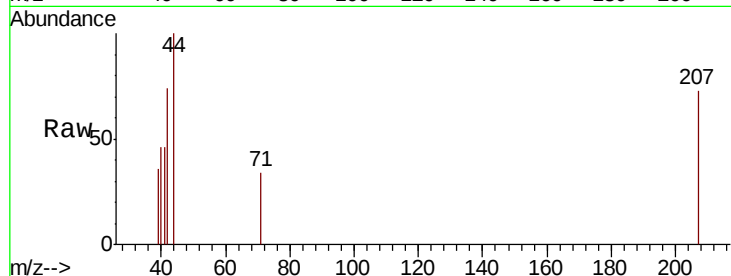
Tot Ion: 42 Resp: 678

Ion Ratio Lower Upper

42 100

72 21.8 32.2 48.2#

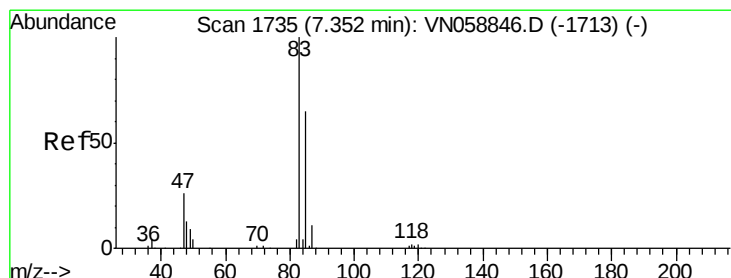
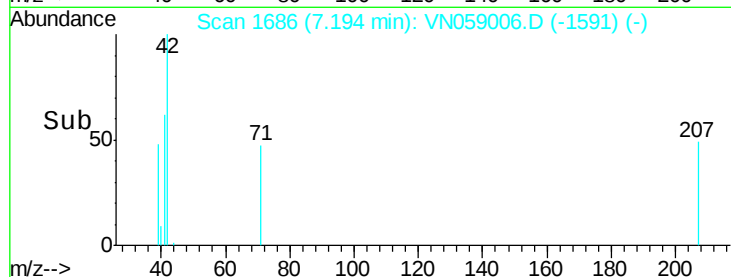
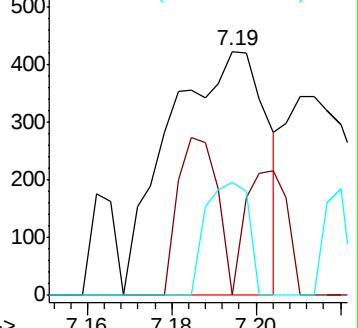
71 20.4 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 0.766 ug/l

RT: 7.35 min Scan# 1735

Delta R.T. 0.00 min

Lab File: VN059006.D

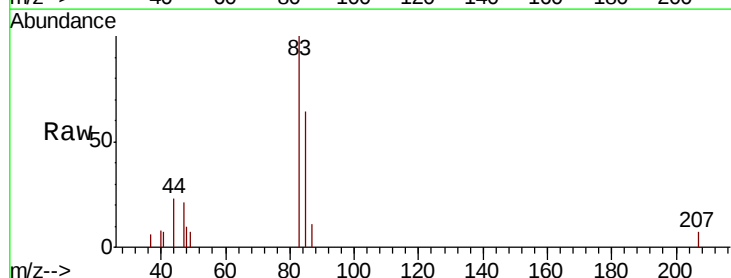
Acq: 29 Oct 2019 13:33

Tgt Ion: 83 Resp: 6948

Ion Ratio Lower Upper

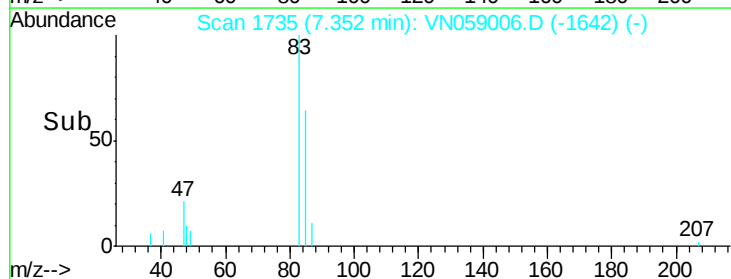
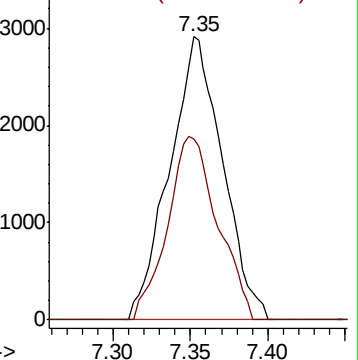
83 100

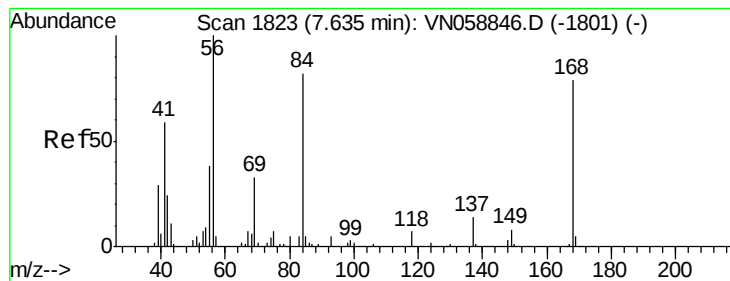
85 64.0 51.9 77.9



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 1.050 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampled :

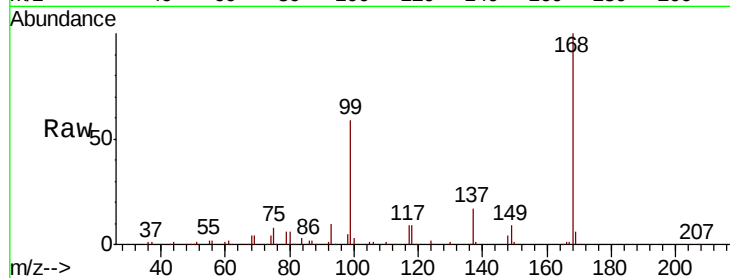
Tot Ion: 56 Resp: 8853

Ion Ratio Lower Upper

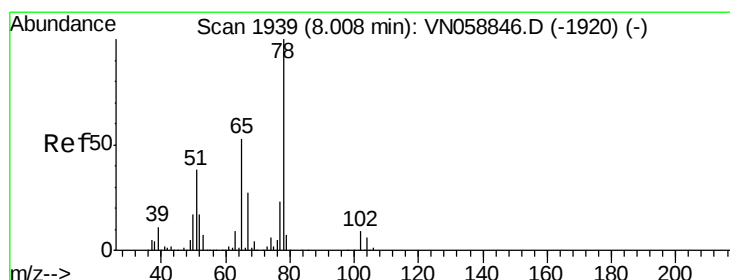
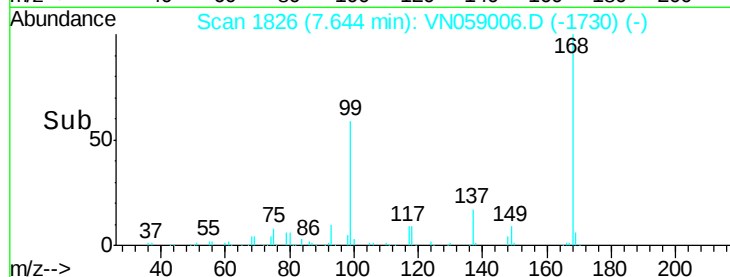
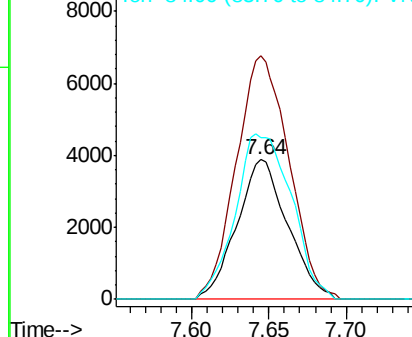
56 100

69 174.3 26.2 39.4#

84 115.6 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 45.481 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059006.D

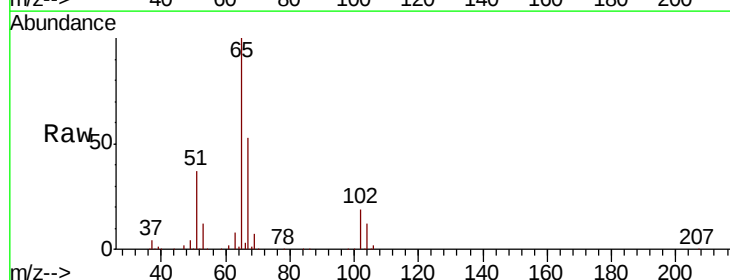
Acq: 29 Oct 2019 13:33

Tgt Ion: 65 Resp: 266764

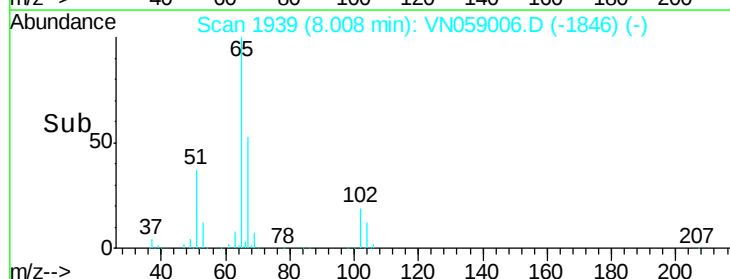
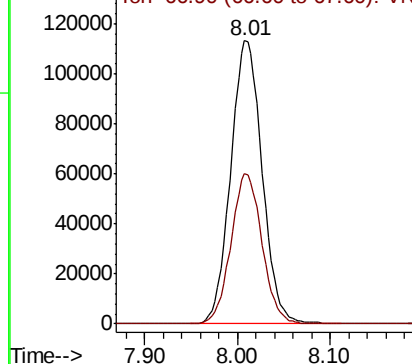
Ion Ratio Lower Upper

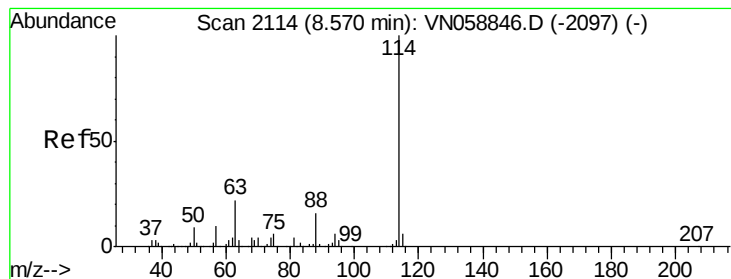
65 100

67 52.1 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VNO  
Ion 66.90 (66.60 to 67.60): VNO





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampleId :

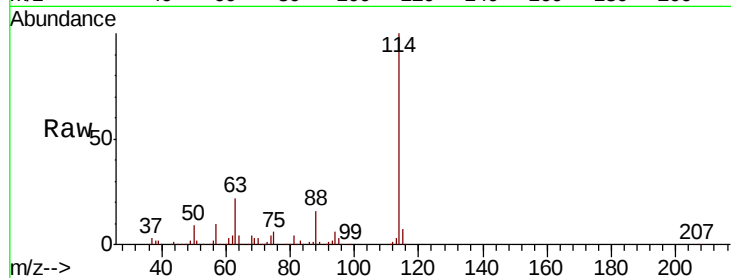
Tot Ion:114 Resp: 617930

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.4

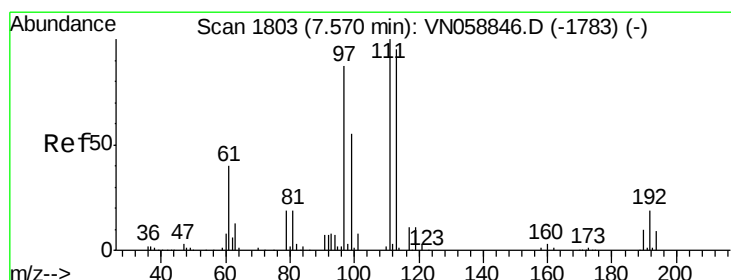
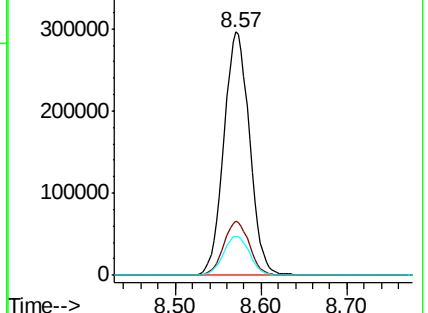
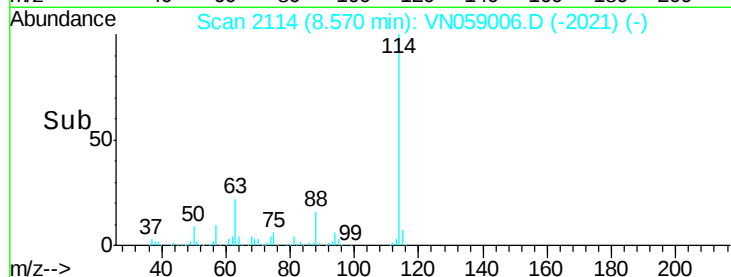
88 16.2 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.607 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

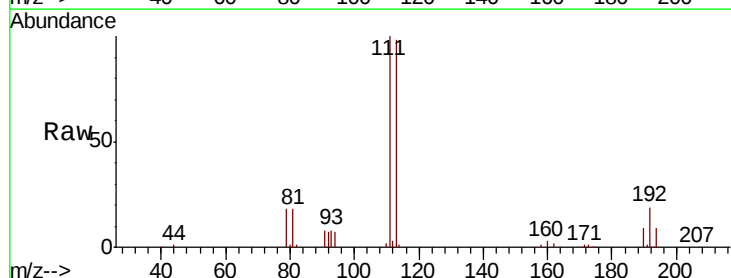
Tgt Ion:113 Resp: 201539

Ion Ratio Lower Upper

113 100

111 100.9 82.0 123.0

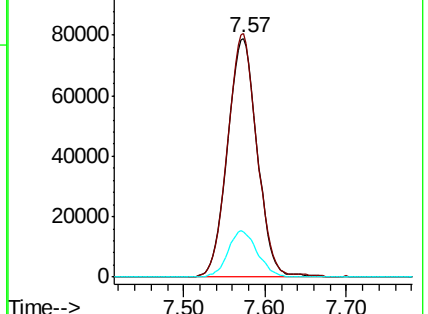
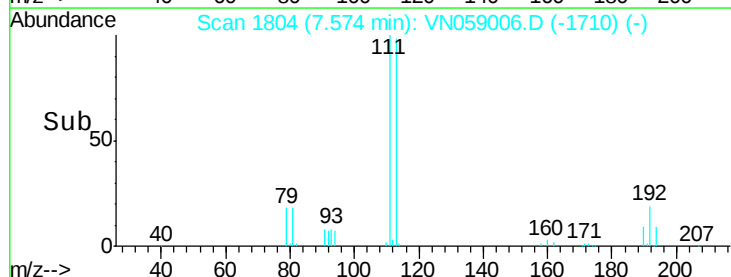
192 19.3 15.0 22.6

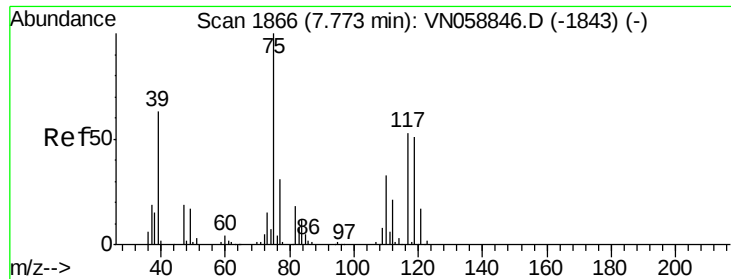


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

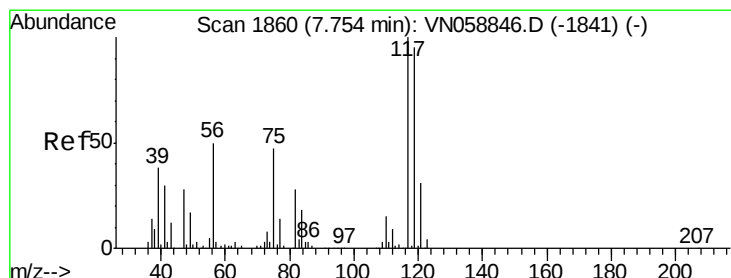
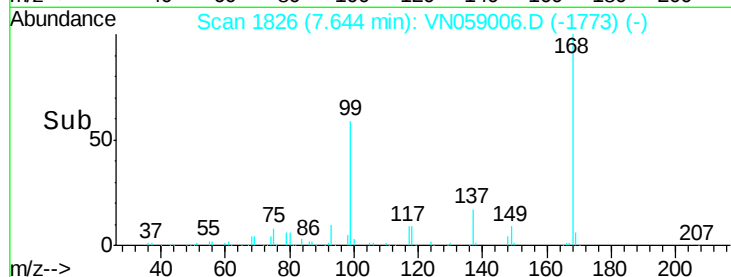
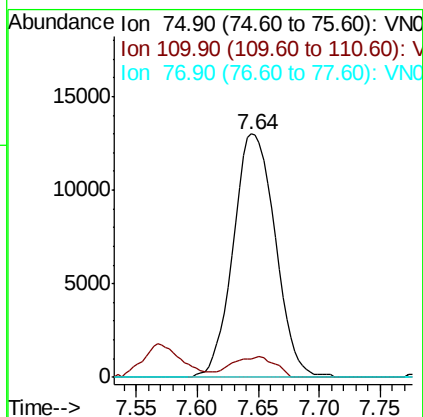
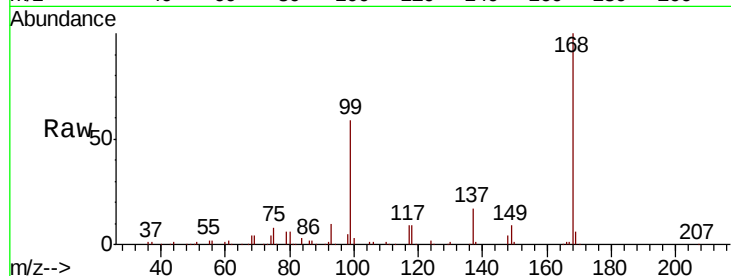




#36  
 1,1-Dichloropropene  
 Concen: 4.912 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.13 min  
 Lab File: VN059006.D  
 Acq: 29 Oct 2019 13:33

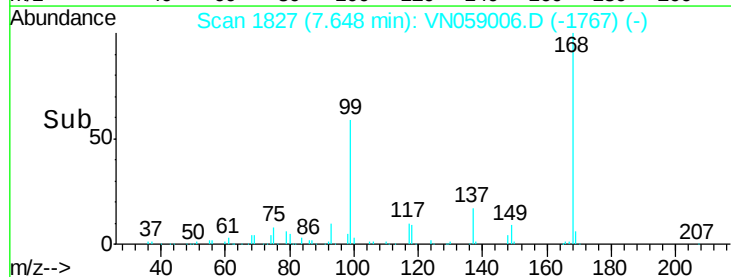
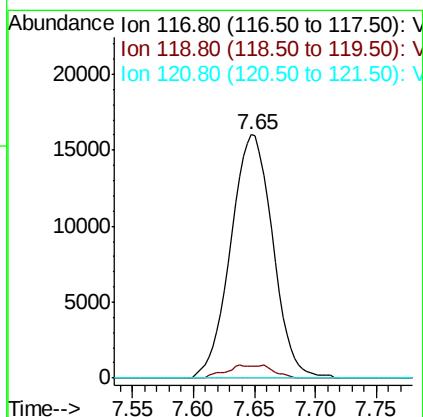
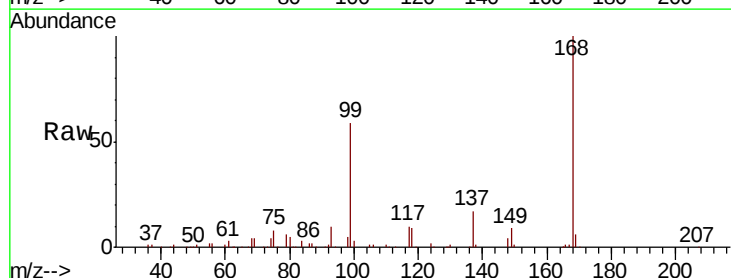
Instrument :  
 MSVOA\_N  
 ClientSampled :

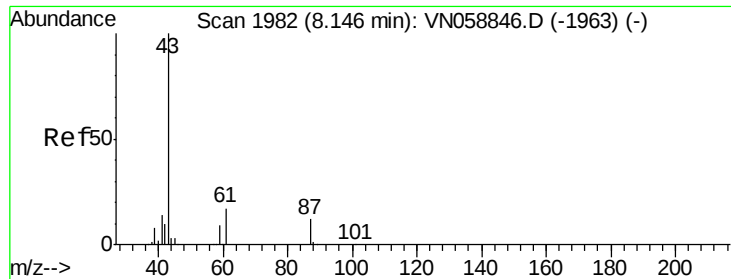
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.6   | 16.3  | 48.9# |
| 77      | 0.0   | 24.6  | 36.8# |



#38  
 Carbon Tetrachloride  
 Concen: 5.878 ug/l  
 RT: 7.65 min Scan# 1827  
 Delta R.T. -0.11 min  
 Lab File: VN059006.D  
 Acq: 29 Oct 2019 13:33

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.9   | 75.7  | 113.5# |
| 121     | 0.0   | 25.0  | 37.6#  |





#43

Isopropyl Acetate

Concen: 9.563 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampled :

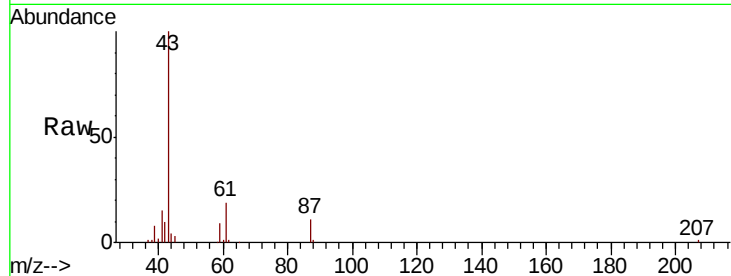
Tot Ion: 43 Resp: 105716

Ion Ratio Lower Upper

43 100

61 18.6 20.2 30.2#

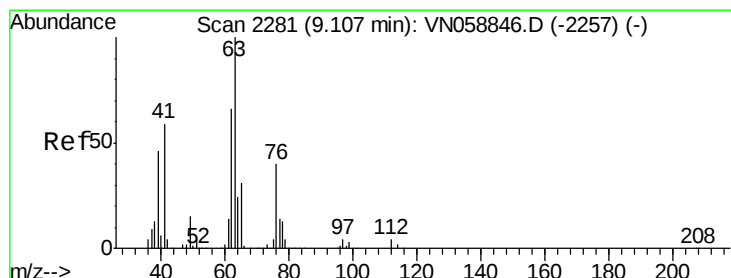
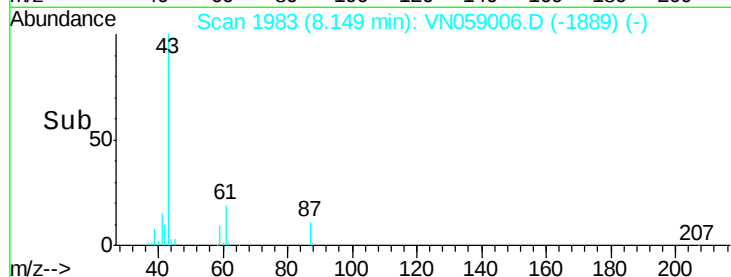
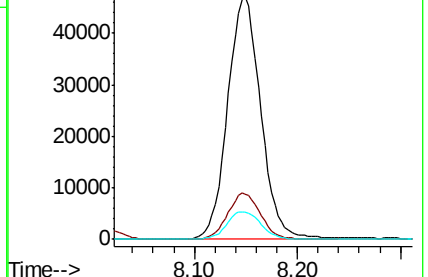
87 11.7 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-1963) (-)

Ion 61.00 (60.70 to 61.70): VN058846.D (-1963) (-)

Ion 87.00 (86.70 to 87.70): VN058846.D (-1963) (-)



#45

1,2-Dichloropropane

Concen: 0.491 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.14 min

Lab File: VN059006.D

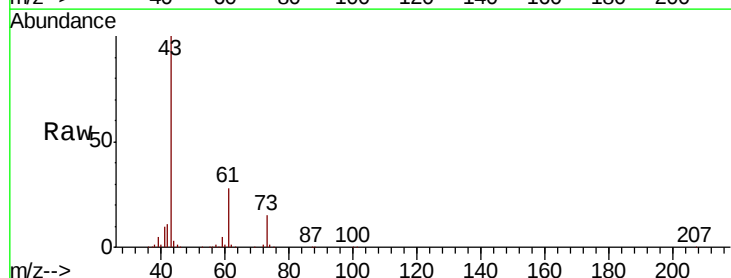
Acq: 29 Oct 2019 13:33

Tgt Ion: 63 Resp: 2503

Ion Ratio Lower Upper

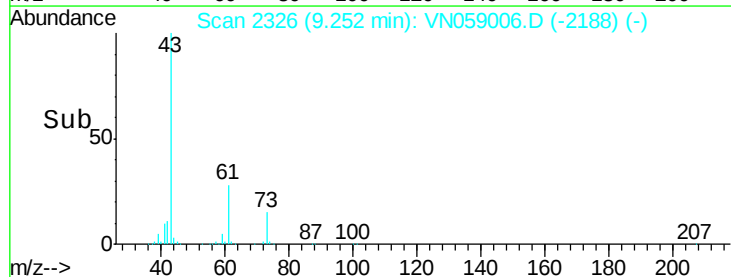
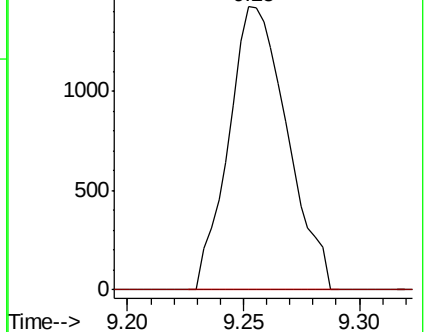
63 100

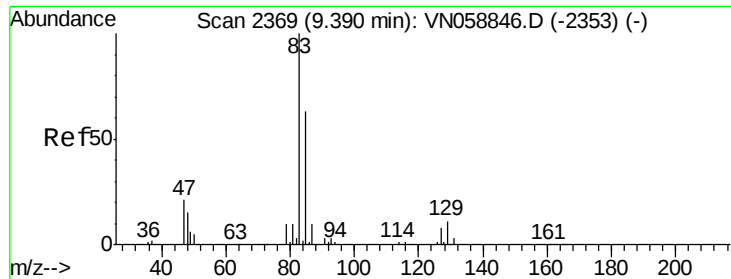
65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN058846.D (-2257) (-)

Ion 64.90 (64.60 to 65.60): VN058846.D (-2257) (-)





#47

Bromodichloromethane

Concen: 0.239 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :  
MSVOA\_N  
ClientSampled :

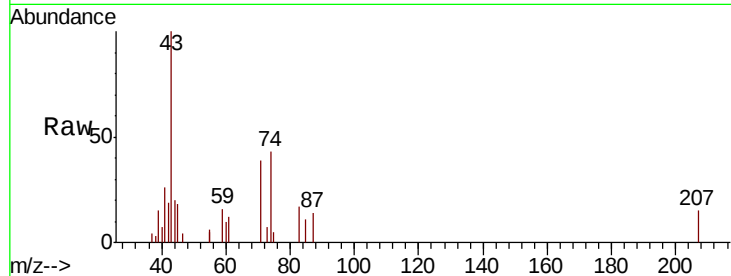
Tot Ion: 83 Resp: 1584

Ion Ratio Lower Upper

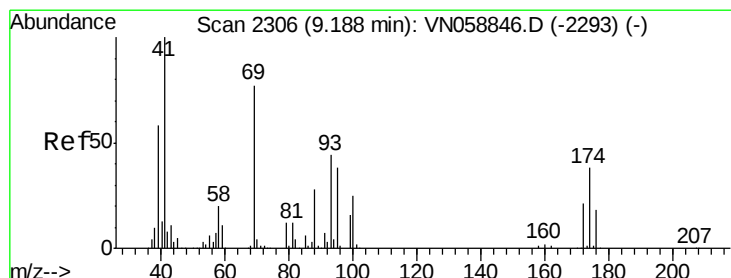
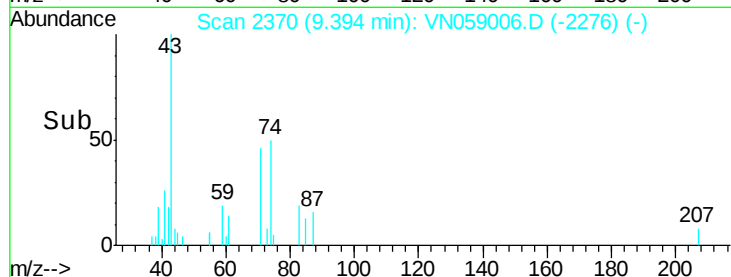
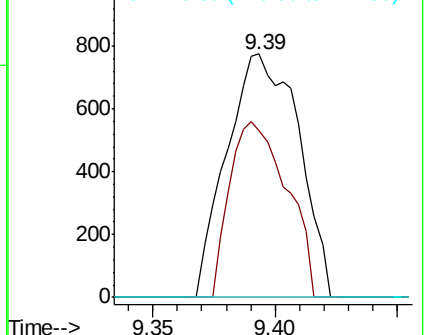
83 100

85 68.5 50.6 75.8

127 0.0 6.5 9.7#



Abundance Ion 82.90 (82.60 to 83.60): VN0  
Ion 84.90 (84.60 to 85.60): VN0  
Ion 126.80 (126.50 to 127.50): VN0



#48

Methyl methacrylate

Concen: 1.245 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

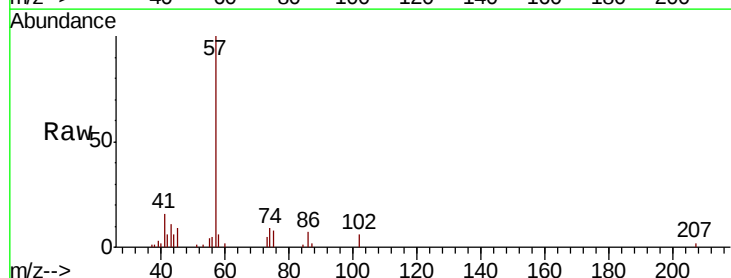
Tgt Ion: 41 Resp: 6246

Ion Ratio Lower Upper

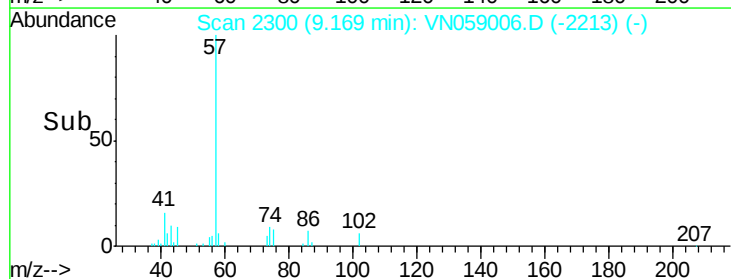
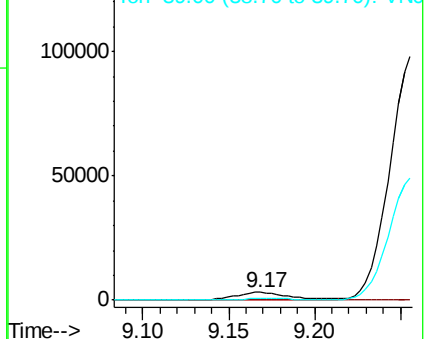
41 100

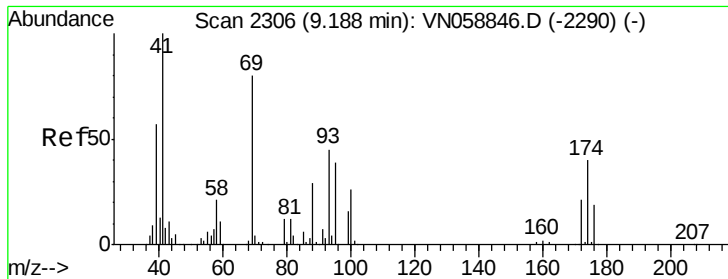
69 0.0 63.8 95.6#

39 0.0 47.8 71.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 1.858 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.06 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampled :

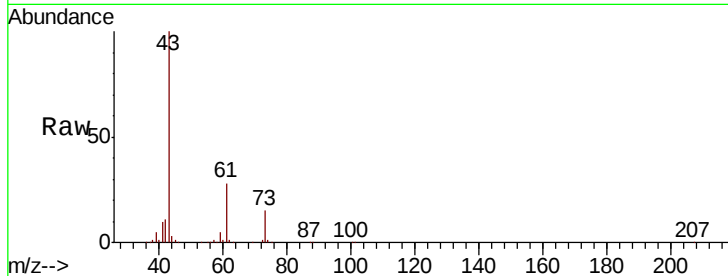
Tot Ion: 88 Resp: 153

Ion Ratio Lower Upper

88 100

43 1254109.2 29.1 43.7#

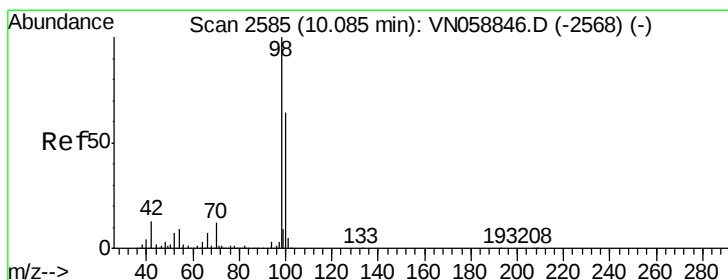
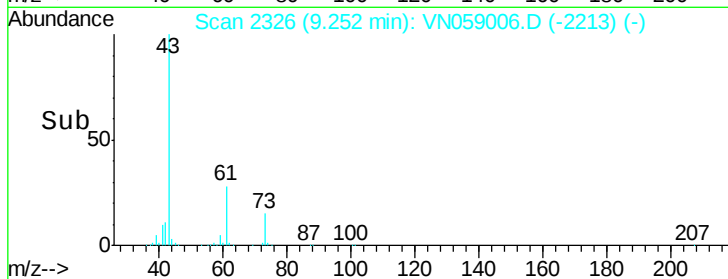
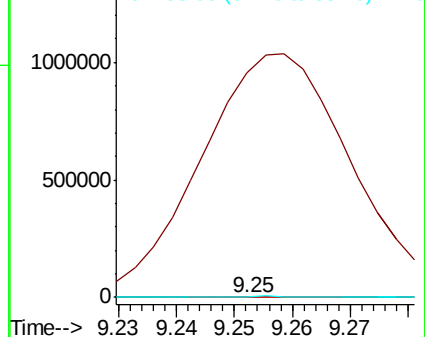
58 5790.2 59.4 89.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.538 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059006.D

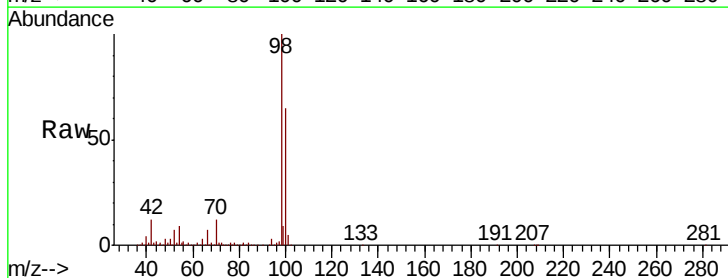
Acq: 29 Oct 2019 13:33

Tgt Ion: 98 Resp: 781266

Ion Ratio Lower Upper

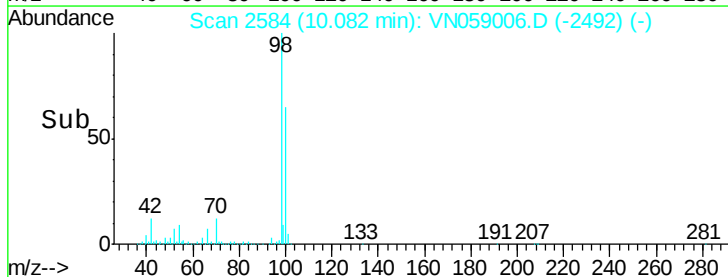
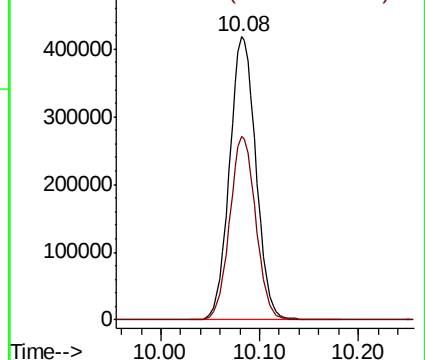
98 100

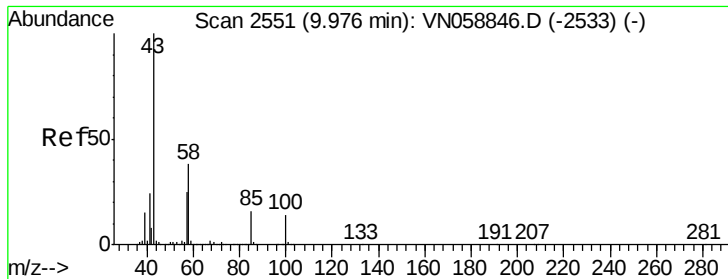
100 64.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.160 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

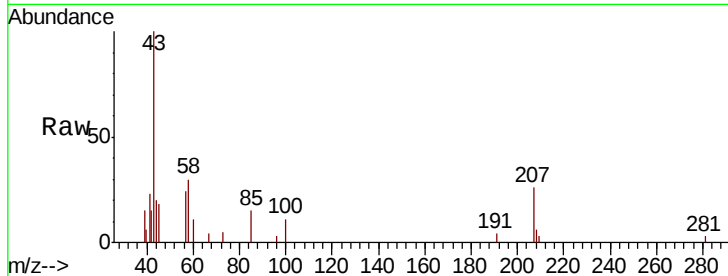
ClientSampled :

Tot Ion: 43 Resp: 7488

Ion Ratio Lower Upper

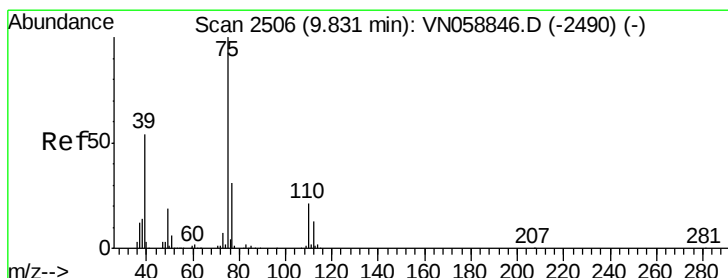
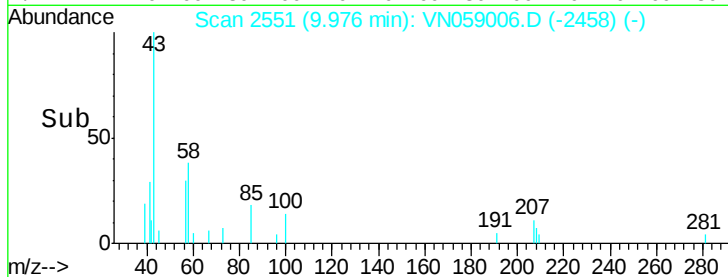
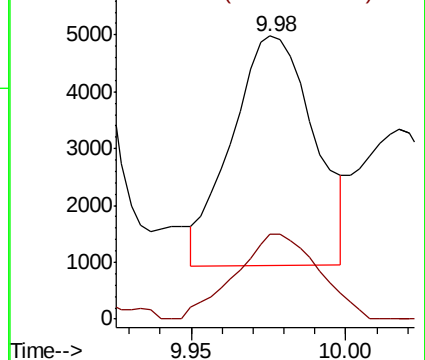
43 100

58 37.5 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN058846.D (-2533) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.322 ug/l

RT: 9.90 min Scan# 2526

Delta R.T. 0.06 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

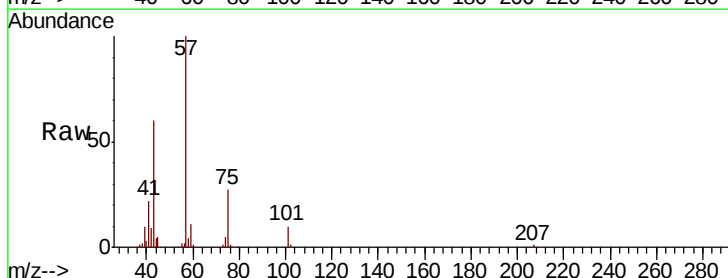
Tgt Ion: 75 Resp: 41781

Ion Ratio Lower Upper

75 100

77 0.7 24.7 37.1#

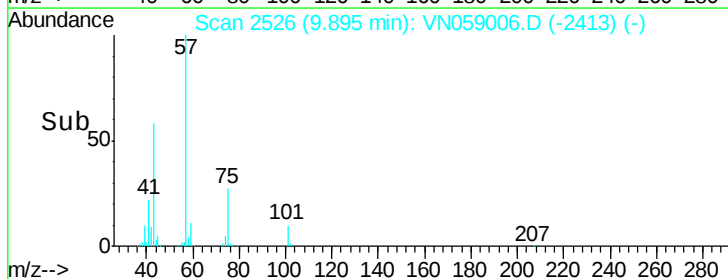
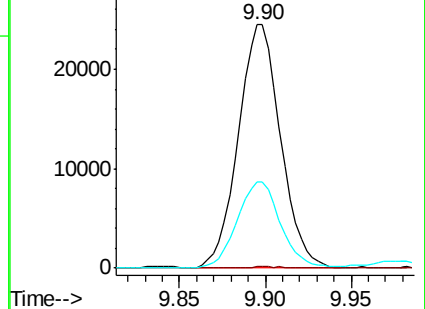
39 35.5 43.5 65.3#

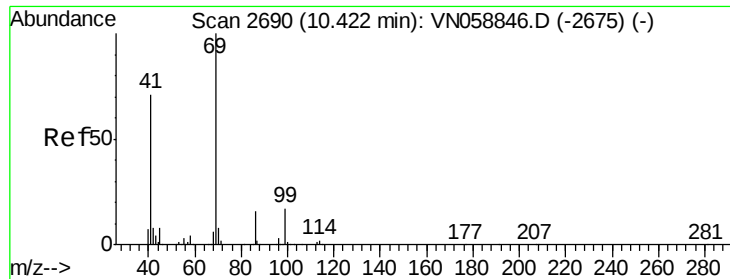


Abundance Ion 74.90 (74.60 to 75.60): VN058846.D (-2490) (-)

Ion 76.90 (76.60 to 77.60): VN058846.D (-2490) (-)

Ion 39.00 (38.70 to 39.70): VN058846.D (-2490) (-)





#56

Ethyl methacrylate

Concen: 2.344 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.12 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampleId :

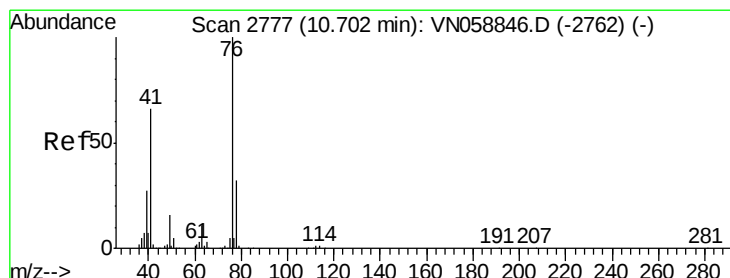
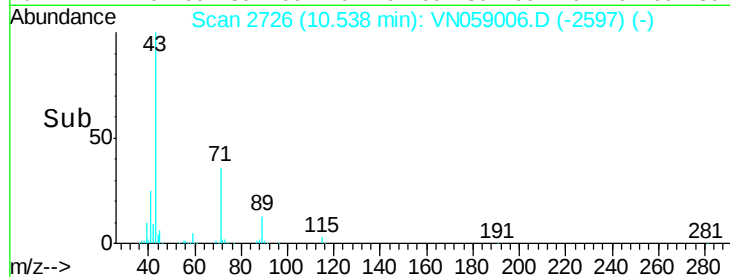
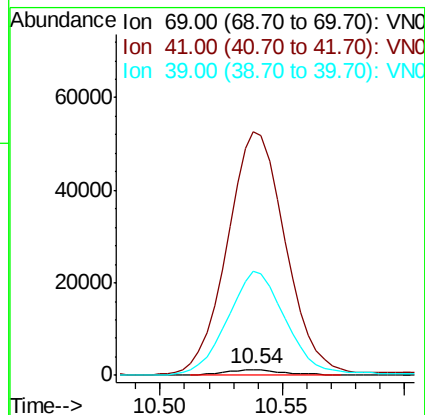
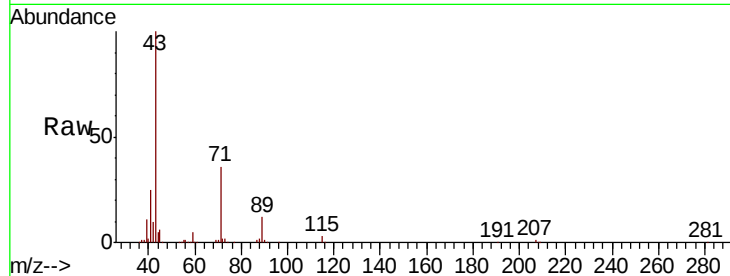
Tot Ion: 69 Resp: 1964

Ion Ratio Lower Upper

69 100

41 4445.1 57.2 85.8#

39 1931.7 31.0 46.4#



#57

1,3-Dichloropropane

Concen: 0.897 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN059006.D

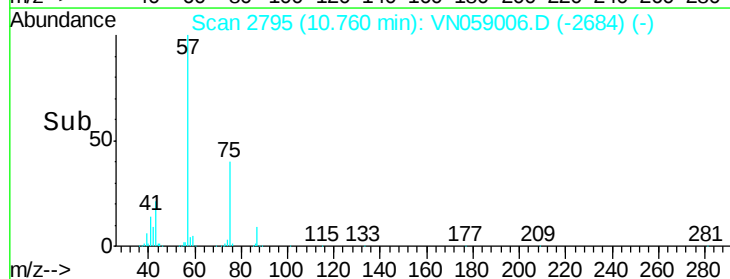
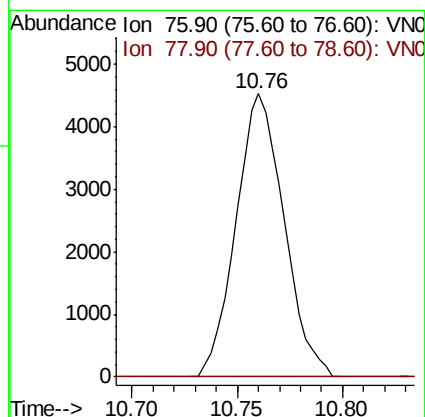
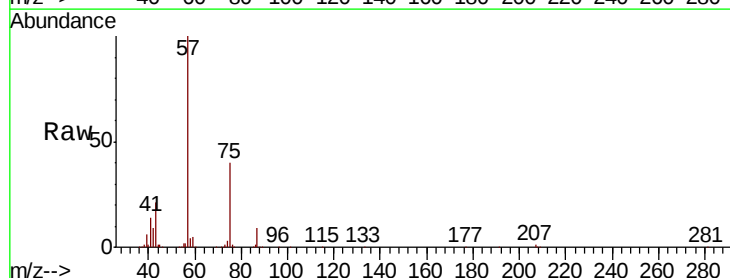
Acq: 29 Oct 2019 13:33

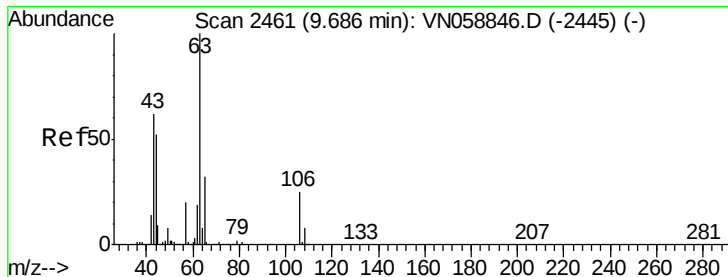
Tgt Ion: 76 Resp: 7147

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#





#58

2-Chloroethyl Vinyl ether

Concen: 5.672 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.01 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

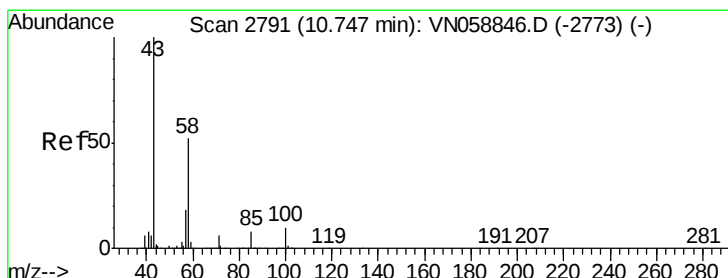
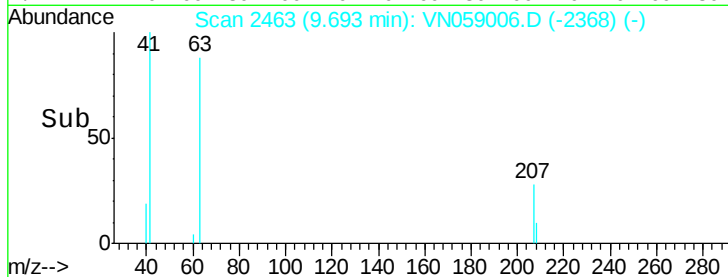
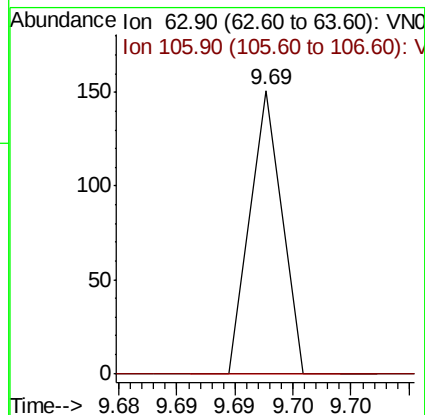
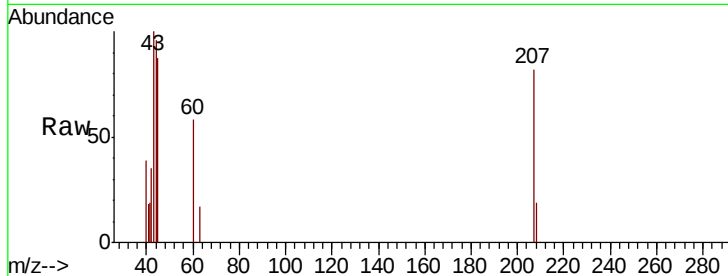
ClientSampleId :

Tot Ion: 63 Resp: 29

Ion Ratio Lower Upper

63 100

106 0.0 19.8 29.8#



#59

2-Hexanone

Concen: 23.617 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN059006.D

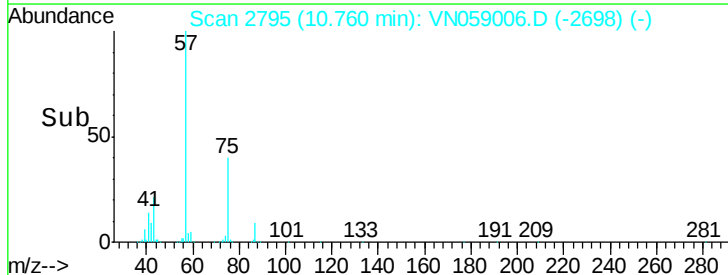
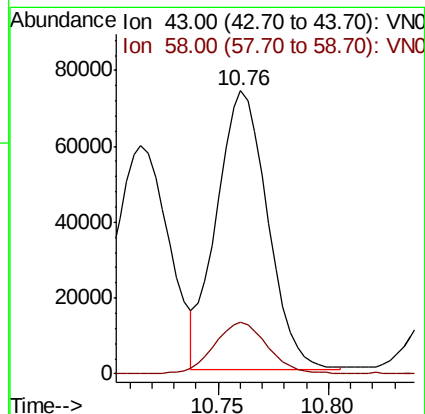
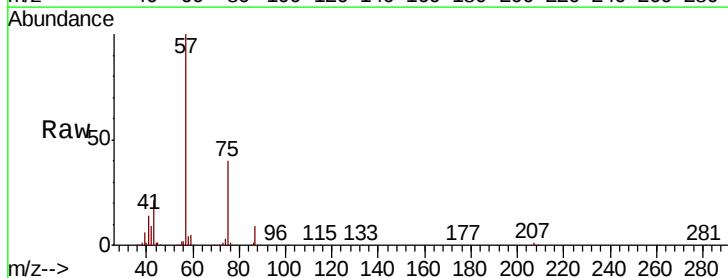
Acq: 29 Oct 2019 13:33

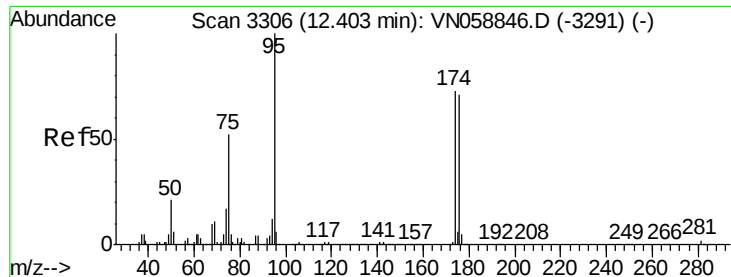
Tgt Ion: 43 Resp: 117842

Ion Ratio Lower Upper

43 100

58 19.6 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 42.782 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampleId :

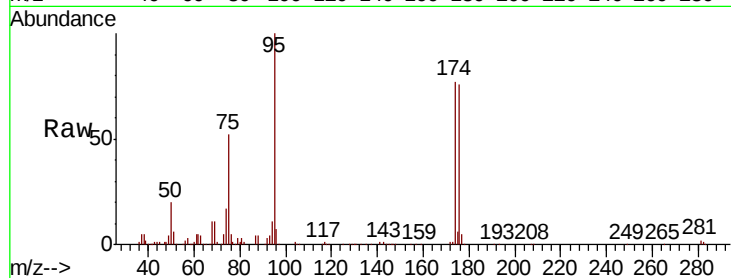
Tot Ion: 95 Resp: 247772

Ion Ratio Lower Upper

95 100

174 77.1 0.0 147.6

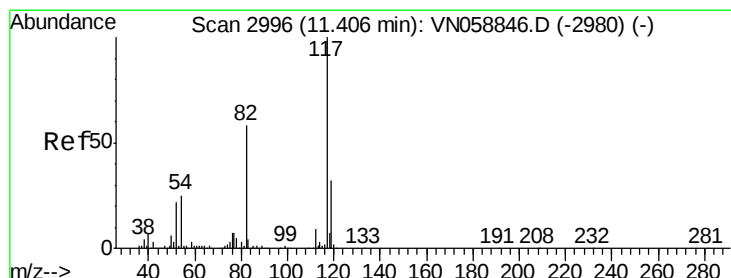
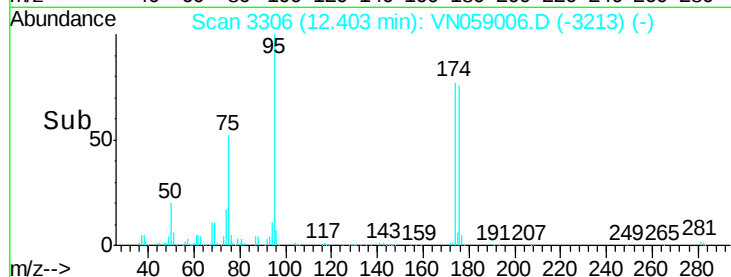
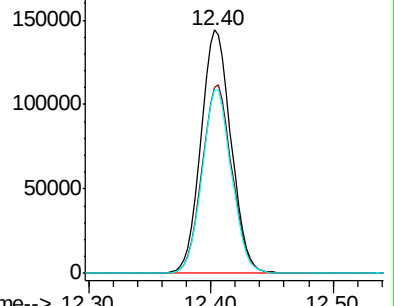
176 74.0 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

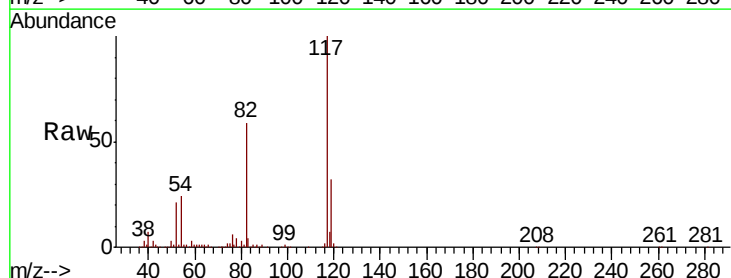
Tgt Ion: 117 Resp: 552809

Ion Ratio Lower Upper

117 100

82 59.3 46.6 69.8

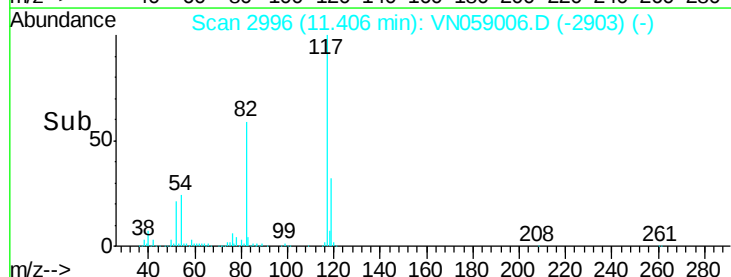
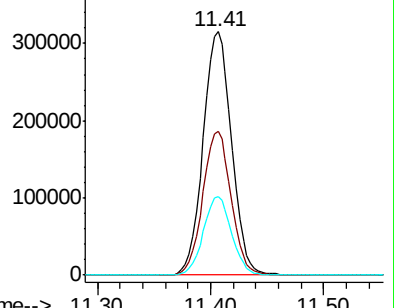
119 32.4 25.6 38.4

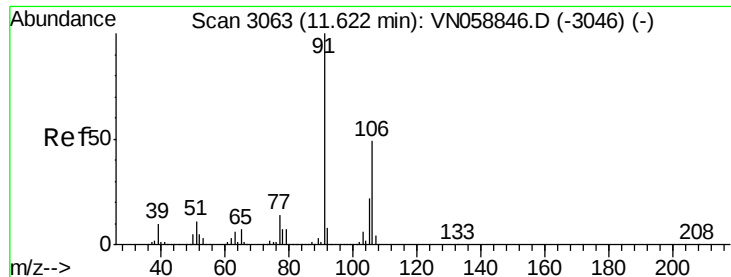


Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)

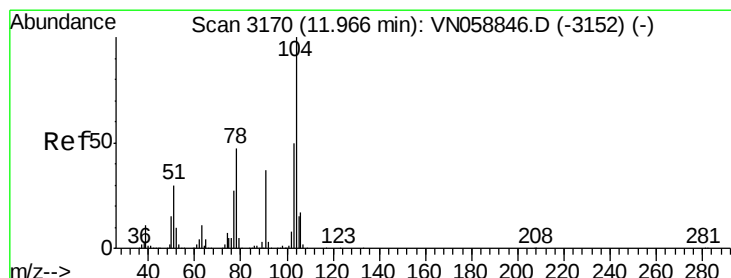
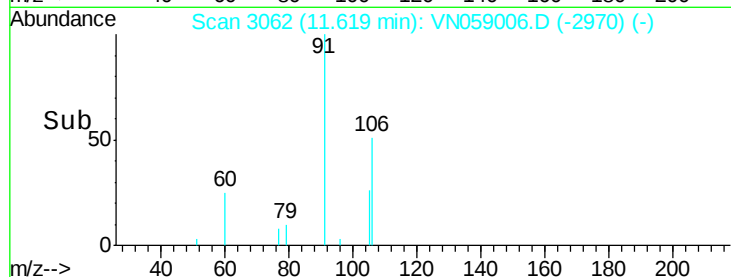
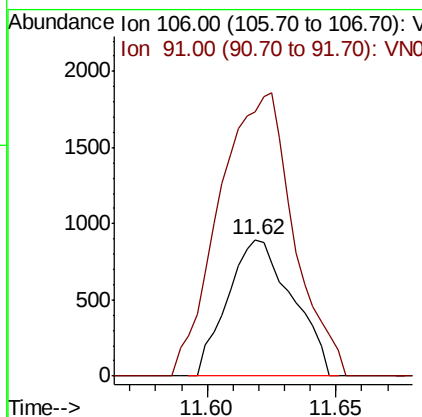
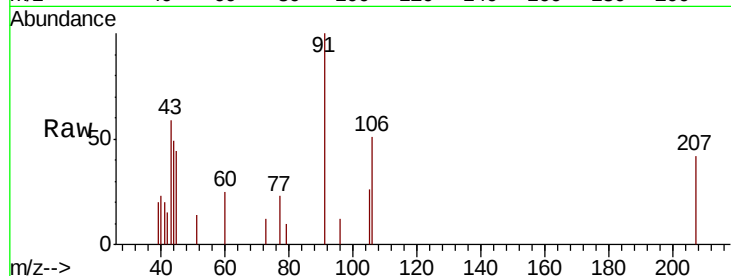




#68  
m/p-Xvlenes  
Concen: 0.215 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN059006.D  
Acq: 29 Oct 2019 13:33

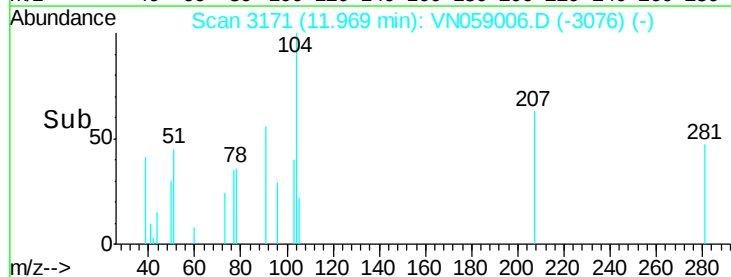
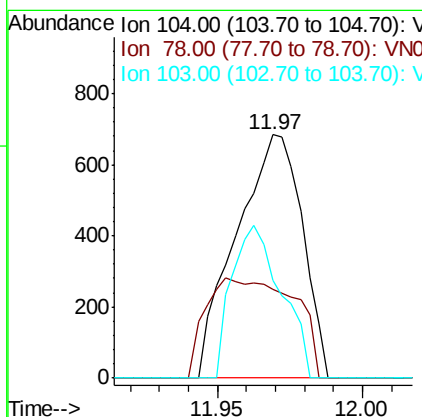
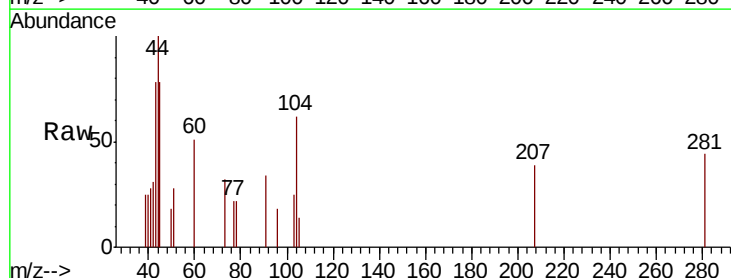
Instrument :  
MSVOA\_N  
ClientSampled :

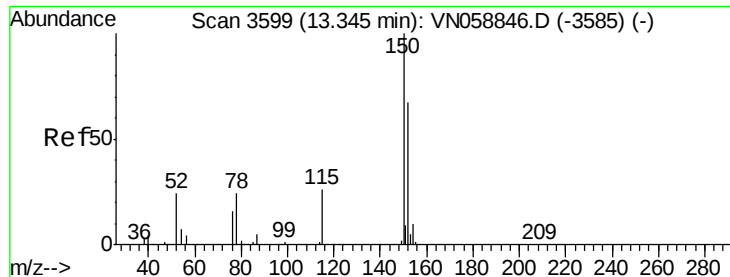
Tot Ion:106 Resp: 1571  
Ion Ratio Lower Upper  
106 100  
91 238.2 166.6 249.8



#70  
Styrene  
Concen: 1.795 ug/l  
RT: 11.97 min Scan# 3171  
Delta R.T. 0.00 min  
Lab File: VN059006.D  
Acq: 29 Oct 2019 13:33

Tgt Ion:104 Resp: 1083  
Ion Ratio Lower Upper  
104 100  
78 54.7 42.8 64.2  
103 46.6 44.3 66.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampled :

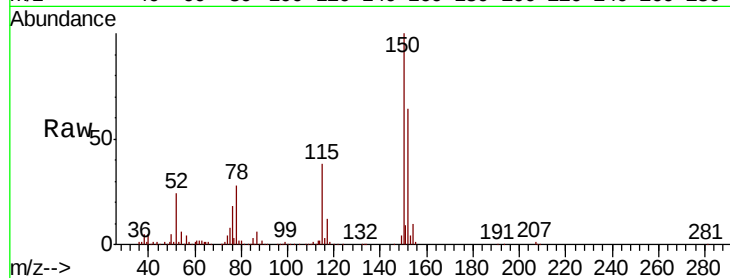
Tot Ion:152 Resp: 200346

Ion Ratio Lower Upper

152 100

115 60.4 30.5 91.5

150 158.1 0.0 344.4

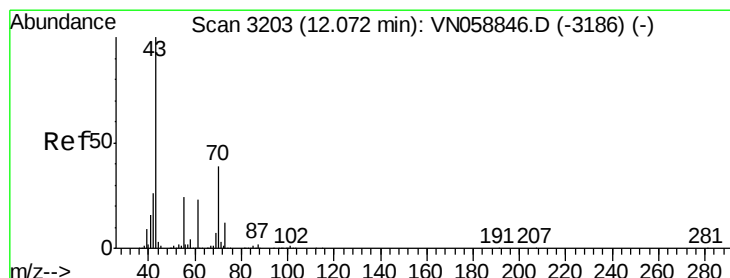
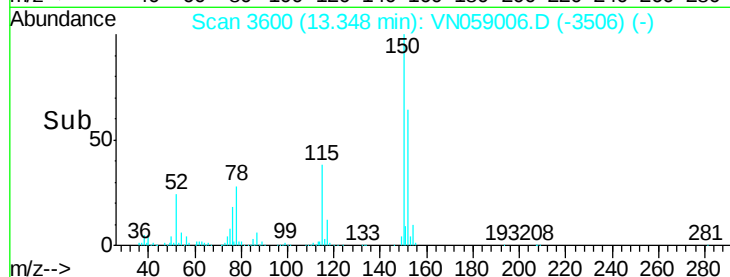
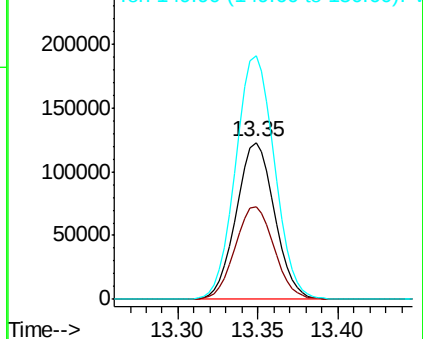


Abundance

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



#74

N-ethyl acetate

Concen: 0.517 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Tgt Ion: 43 Resp: 3435

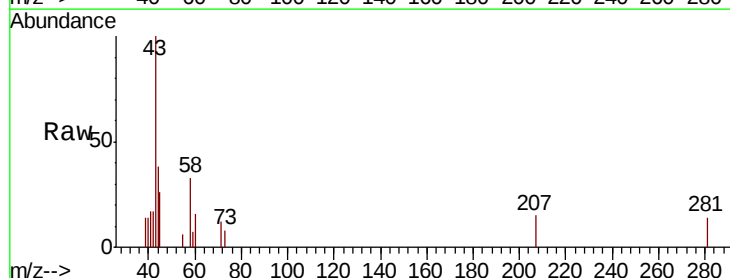
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 6.3 19.7 29.5#

61 0.0 18.2 27.4#



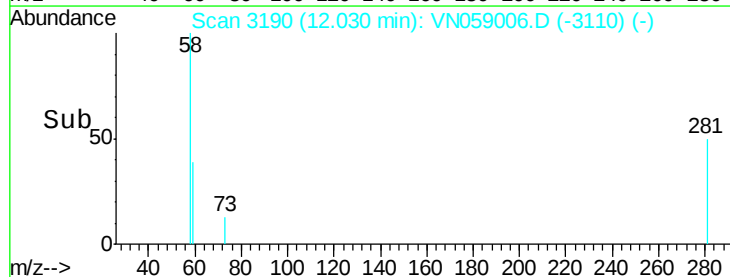
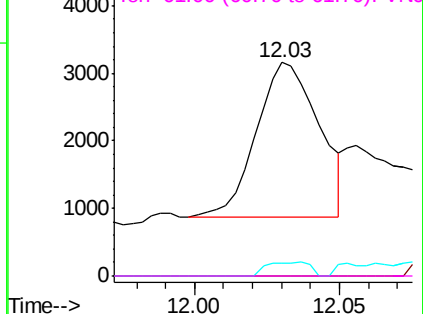
Abundance

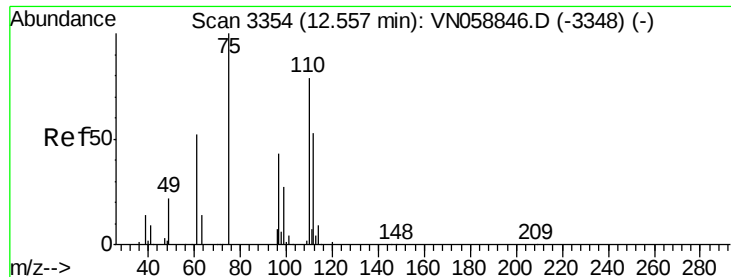
Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 27.460 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

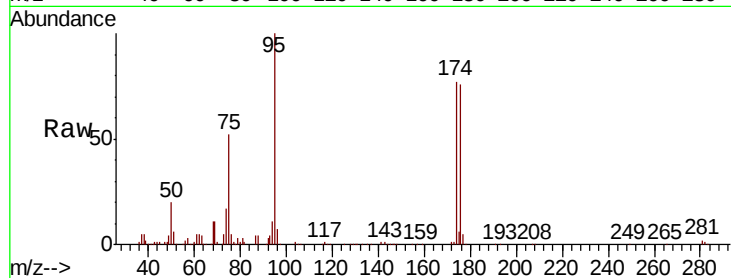
ClientSampled :

Tot Ion: 75 Resp: 127504

Ion Ratio Lower Upper

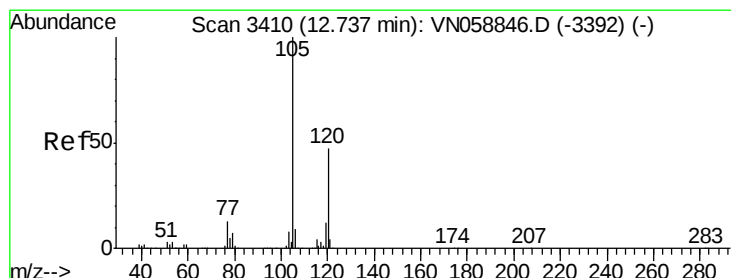
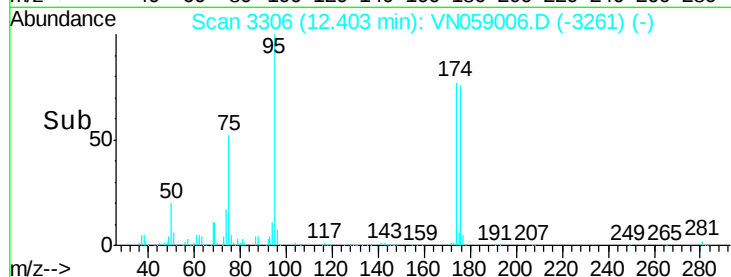
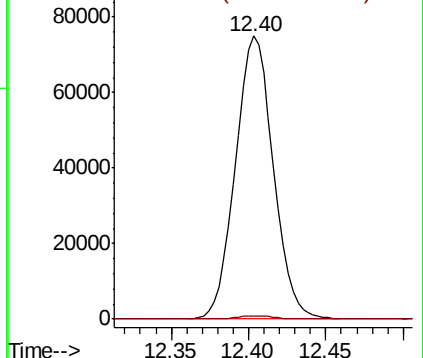
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.591 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN059006.D

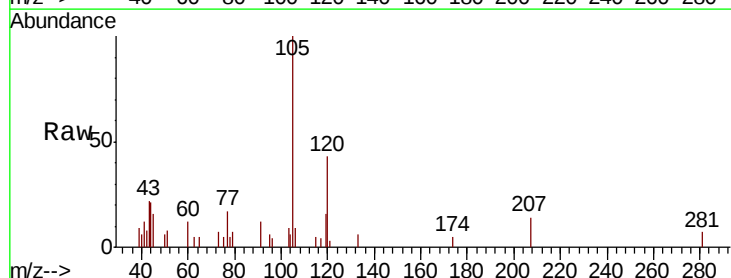
Acq: 29 Oct 2019 13:33

Tgt Ion: 105 Resp: 7268

Ion Ratio Lower Upper

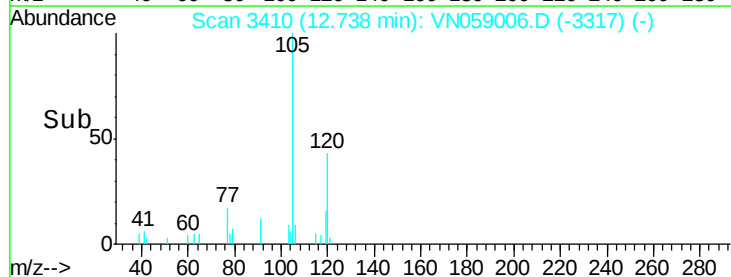
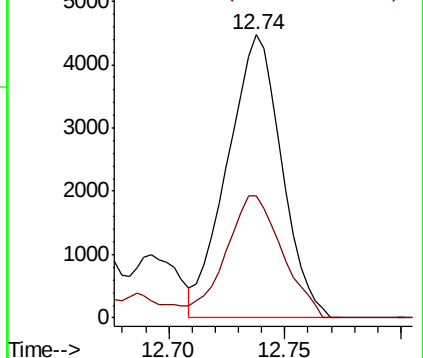
105 100

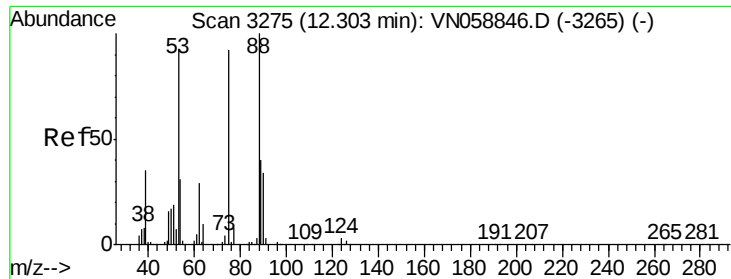
120 45.2 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 71.536 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampleId :

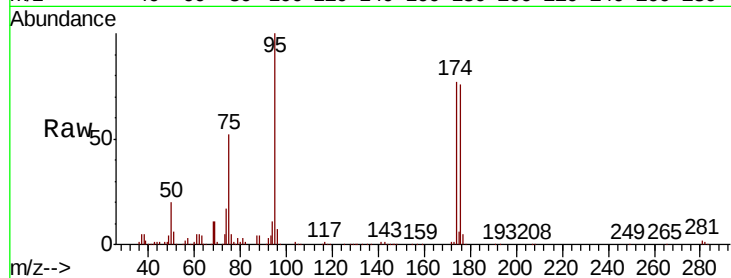
Tot Ion: 75 Resp: 127504

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

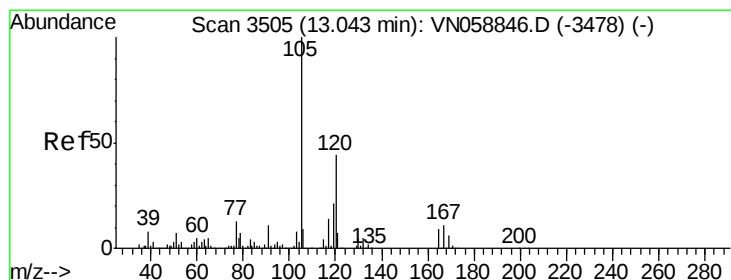
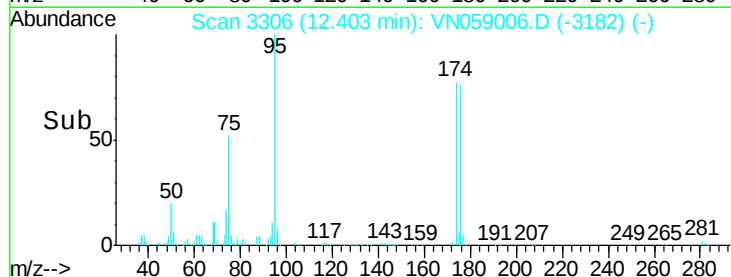
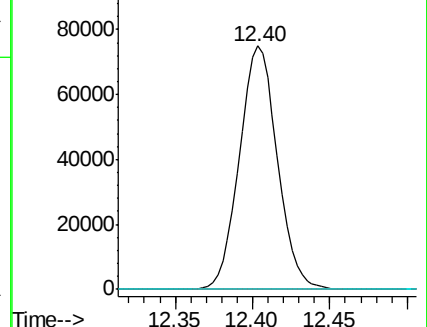
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059006.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN059006.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN059006.D (-3306) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.897 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN059006.D

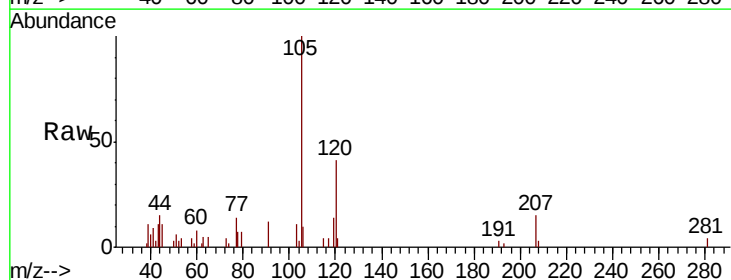
Acq: 29 Oct 2019 13:33

Tgt Ion: 105 Resp: 10887

Ion Ratio Lower Upper

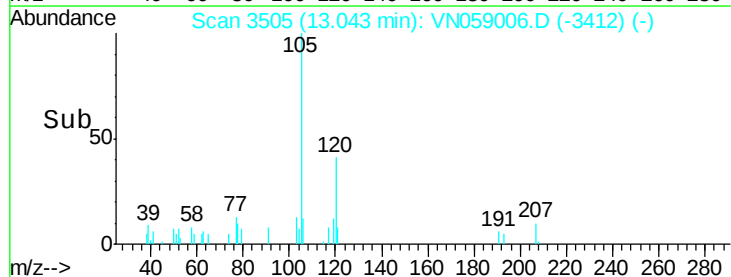
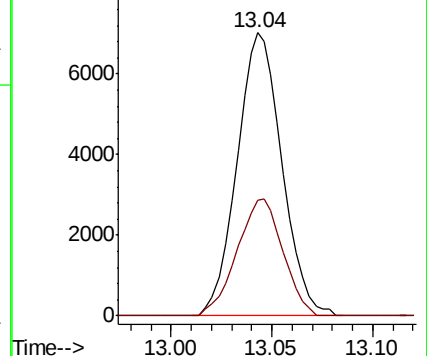
105 100

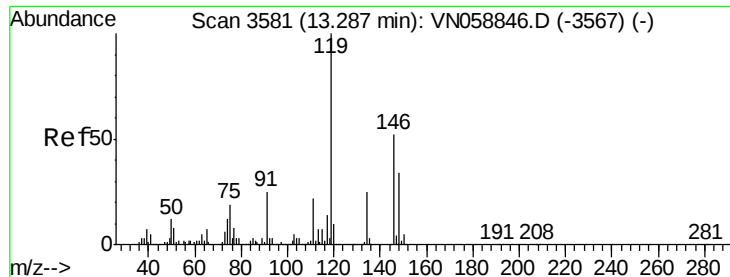
120 42.3 21.9 65.8



Abundance Ion 105.00 (104.70 to 105.70): VN059006.D (-3505) (-)

Ion 120.00 (119.70 to 120.70): VN059006.D (-3505) (-)





#87

1,3-Dichlorobenzene

Concen: 0.225 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

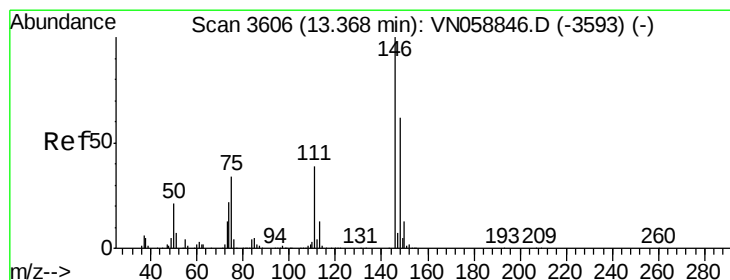
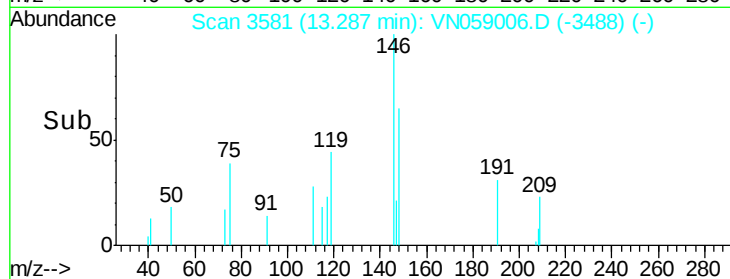
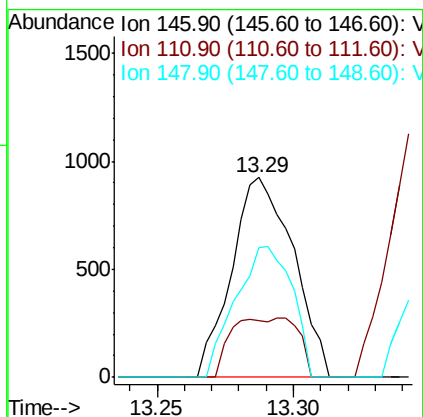
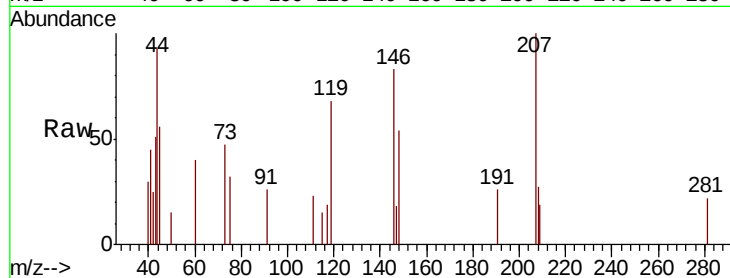
Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:146 Resp: 1451

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 19.0  | 21.0  | 63.0# |
| 148 | 60.0  | 32.1  | 96.3  |



#88

1,4-Dichlorobenzene

Concen: 0.290 ug/l

RT: 13.37 min Scan# 3607

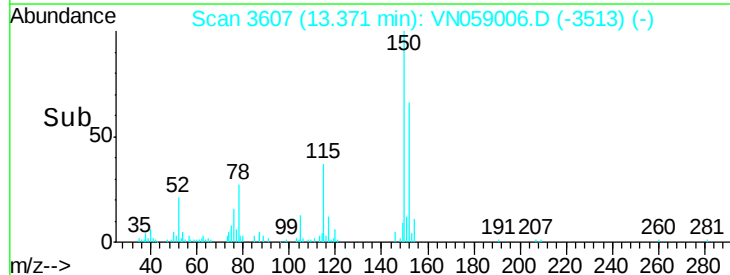
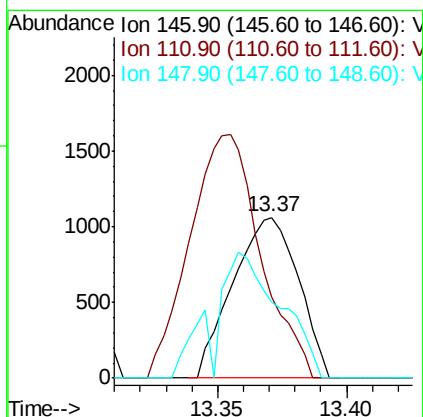
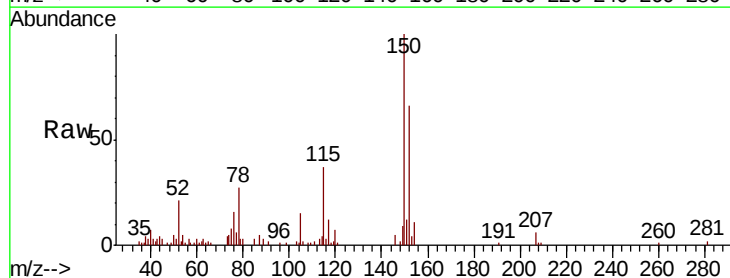
Delta R.T. 0.00 min

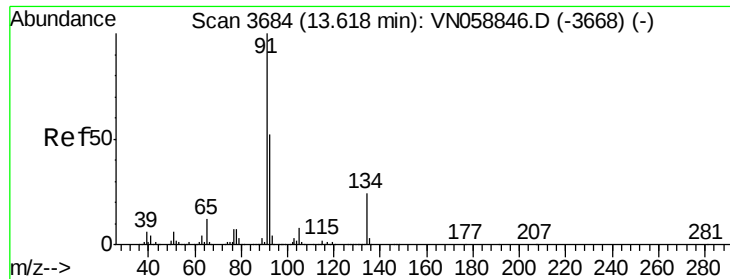
Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Tgt Ion:146 Resp: 1873

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 162.7 | 20.2  | 60.6# |
| 148 | 66.7  | 31.6  | 94.7  |

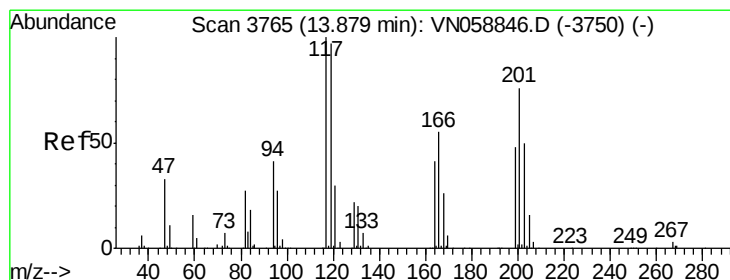
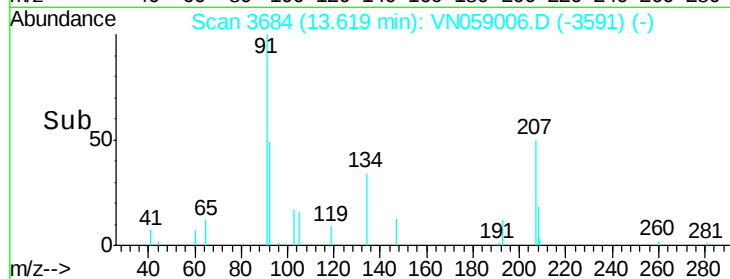
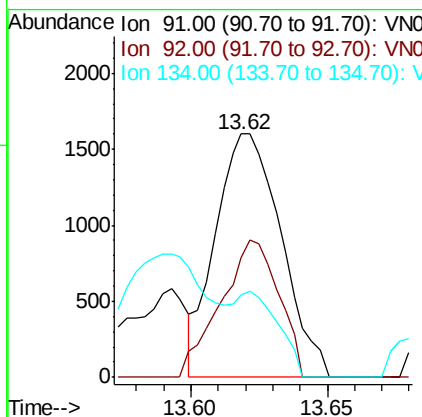
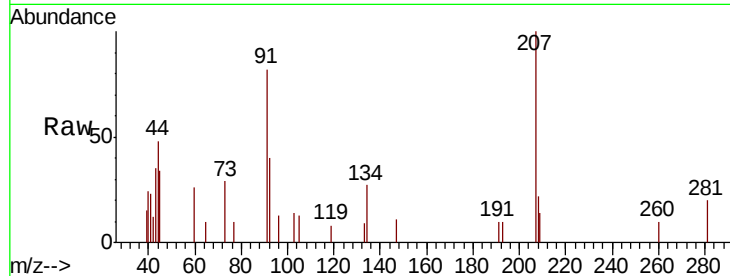




#89  
n-Butylbenzene  
Concen: 0.235 ug/l  
RT: 13.62 min Scan# 3684  
Delta R.T. 0.00 min  
Lab File: VN059006.D  
Acq: 29 Oct 2019 13:33

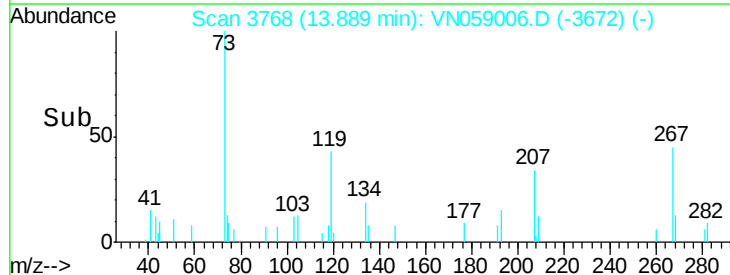
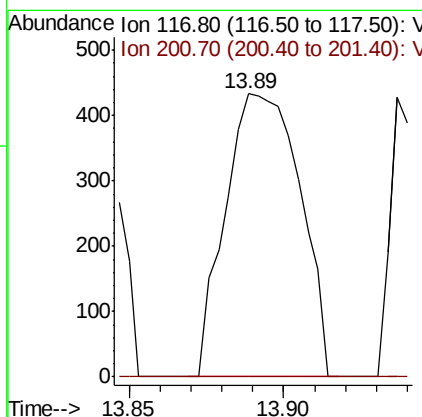
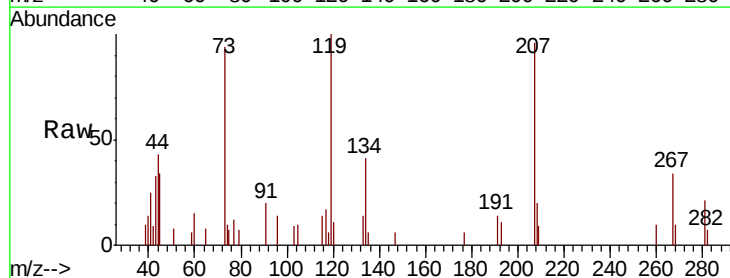
Instrument :  
MSVOA\_N  
ClientSampled :

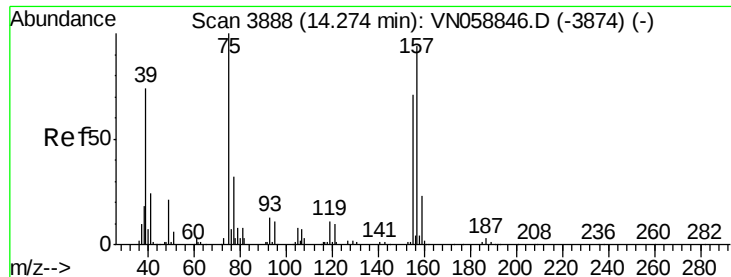
Tot Ion: 91 Resp: 2674  
Ion Ratio Lower Upper  
91 100  
92 49.7 25.7 77.1  
134 0.0 11.9 35.5#



#90  
Hexachloroethane  
Concen: 0.289 ug/l  
RT: 13.89 min Scan# 3768  
Delta R.T. 0.01 min  
Lab File: VN059006.D  
Acq: 29 Oct 2019 13:33

Tgt Ion: 117 Resp: 725  
Ion Ratio Lower Upper  
117 100  
201 0.0 38.9 116.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.503 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. -0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

Instrument :

MSVOA\_N

ClientSampleId :

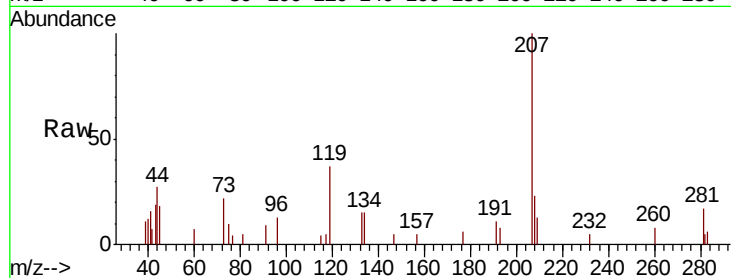
Tot Ion: 75 Resp: 586

Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.8#

157 31.4 47.4 142.2#

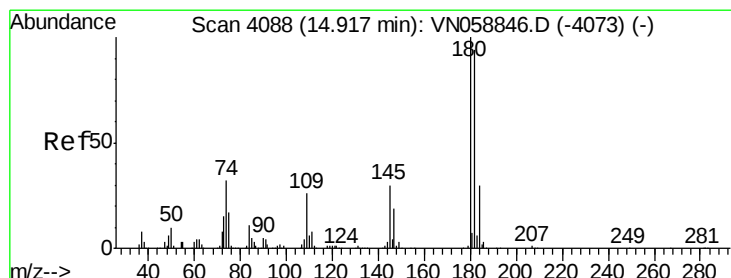
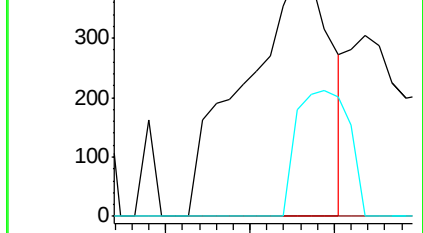
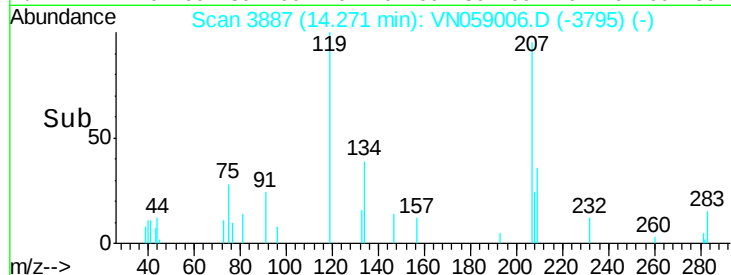


Abundance Ion 74.90 (74.60 to 75.60): VN059006.D (-3795) (-)

Ion 154.80 (154.50 to 155.50): VN059006.D (-3795) (-)

Ion 156.80 (156.50 to 157.50): VN059006.D (-3795) (-)

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.078 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN059006.D

Acq: 29 Oct 2019 13:33

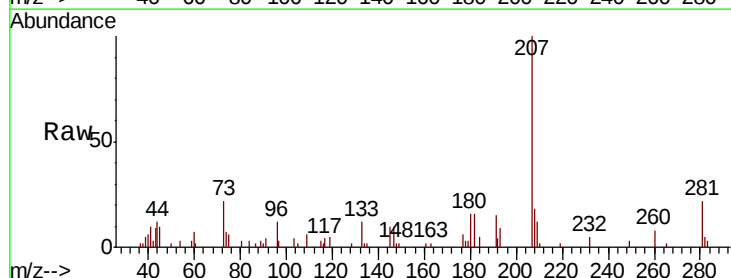
Tgt Ion: 180 Resp: 2342

Ion Ratio Lower Upper

180 100

182 95.1 47.3 142.0

145 80.1 15.3 45.8#

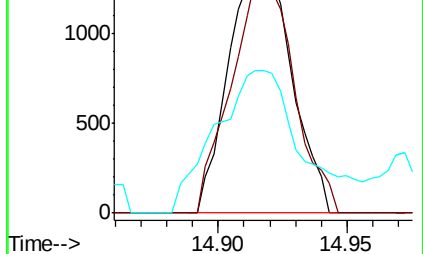
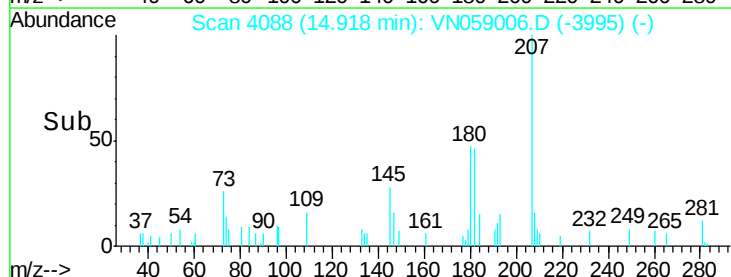


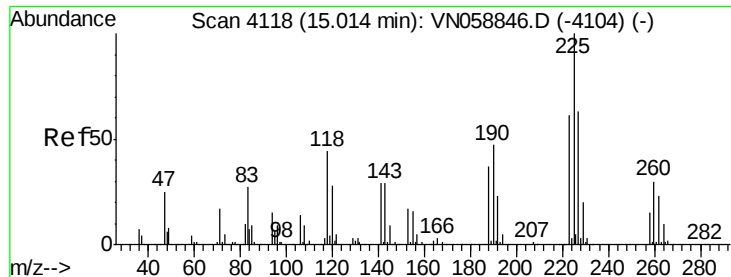
Abundance Ion 179.80 (179.50 to 180.50): VN059006.D (-3995) (-)

Ion 181.80 (181.50 to 182.50): VN059006.D (-3995) (-)

Ion 144.80 (144.50 to 145.50): VN059006.D (-3995) (-)

Time-->

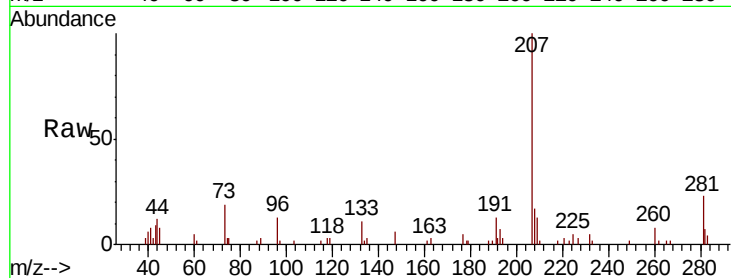




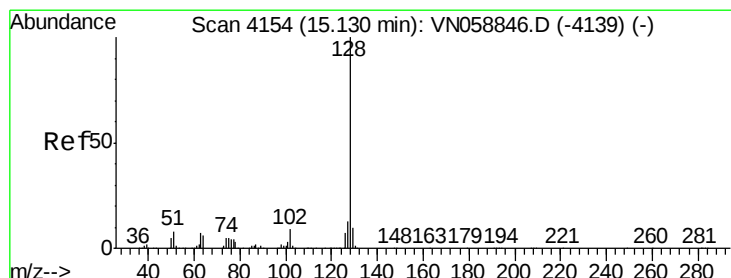
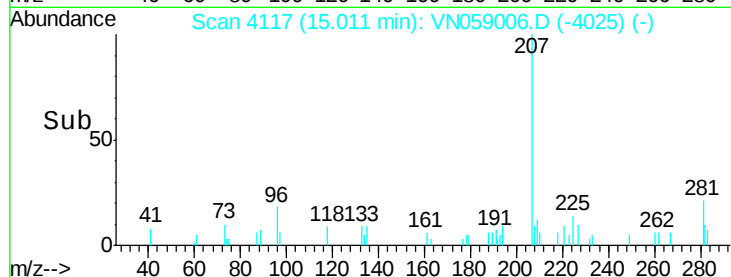
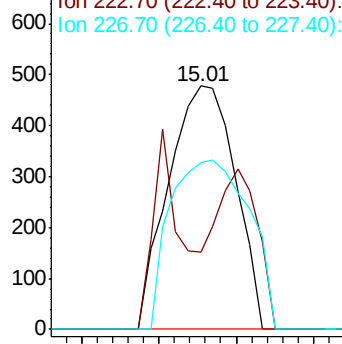
#94  
Hexachlorobutadiene  
Concen: 0.279 ug/l  
RT: 15.01 min Scan# 4117  
Delta R.T. -0.00 min  
Lab File: VN059006.D  
Acq: 29 Oct 2019 13:33

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:225 Resp: 573  
Ion Ratio Lower Upper  
225 100  
223 41.5 30.9 92.5  
227 82.2 31.6 94.7

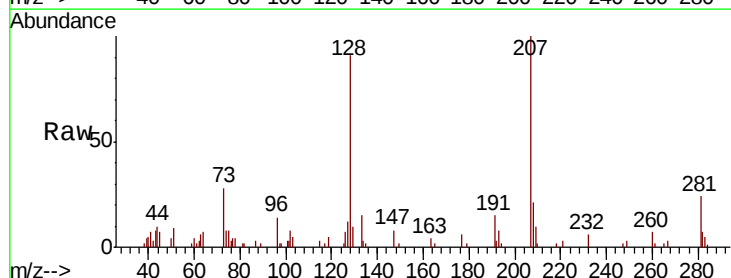


Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V

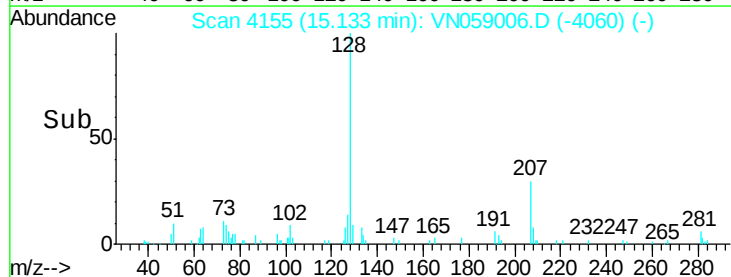
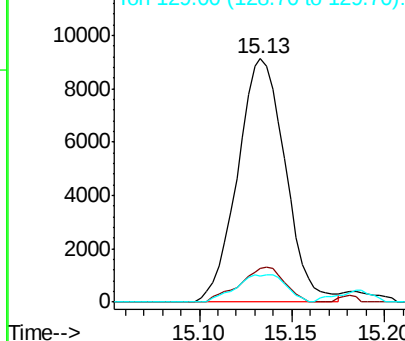


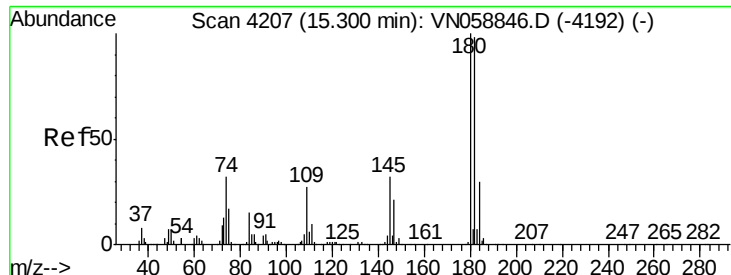
#95  
Naphthalene  
Concen: 3.579 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN059006.D  
Acq: 29 Oct 2019 13:33

Tgt Ion:128 Resp: 16259  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.2 15.2  
129 11.8 8.4 12.6



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

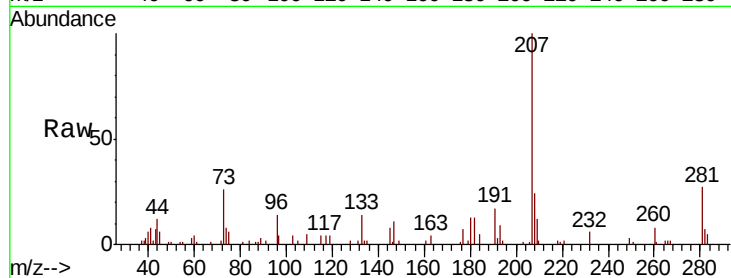




#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.114 ug/l  
 RT: 15.30 min Scan# 4206  
 Delta R.T. -0.00 min  
 Lab File: VN059006.D  
 Acq: 29 Oct 2019 13:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.3  | 47.9  | 143.7 |
| 145     | 82.0  | 15.9  | 47.7# |



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

