

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090919\  
 Data File : VN057797.D  
 Acq On : 9 Sep 2019 13:14  
 Operator : JC/SP  
 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 09 16:17:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Sep 09 12:14:07 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.18  | 128  | 69979    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.57  | 114  | 418049   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 376146   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.01   | 65    | 189273   | 30.58    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 101.93% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 188237   | 29.24    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 97.47%  |
| 63) Toluene-d8            | 10.08  | 98    | 545386   | 30.21    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.70% |

## Target Compounds

|                               |      |     |        |                | Ovalue |
|-------------------------------|------|-----|--------|----------------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 86733  | 20.514 ug/l    | 99     |
| 3) Chloromethane              | 2.03 | 50  | 109489 | 20.768 ug/l    | 100    |
| 4) Vinyl Chloride             | 2.16 | 62  | 114235 | 21.178 ug/l    | 98     |
| 5) Bromomethane               | 2.54 | 94  | 70662  | 20.991 ug/l    | 88     |
| 6) Chloroethane               | 2.68 | 64  | 69161  | 20.631 ug/l    | 97     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 128691 | 20.651 ug/l    | 100    |
| 8) Diethyl Ether              | 3.39 | 74  | 52774  | 20.992 ug/l    | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.73 | 101 | 80746  | 20.751 ug/l    | 99     |
| 10) 1,1-Dichloroethene        | 3.71 | 96  | 75252  | 20.337 ug/l    | 89     |
| 11) Methyl Iodide             | 3.93 | 142 | 100182 | 20.236 ug/l    | 97     |
| 12) Methyl Acetate            | 4.31 | 43  | 105515 | 20.779 ug/l #  | 91     |
| 13) Acrolein                  | 3.59 | 56  | 25079  | 91.025 ug/l    | 91     |
| 14) Acrylonitrile             | 4.96 | 53  | 214655 | 103.693 ug/l # | 90     |
| 15) Acetone                   | 3.80 | 58  | 56762  | 96.583 ug/l    | 97     |
| 16) Carbon Disulfide          | 4.03 | 76  | 169330 | 19.652 ug/l    | 99     |
| 17) Allyl chloride            | 4.30 | 41  | 138513 | 20.428 ug/l    | 96     |
| 18) Methylene Chloride        | 4.53 | 84  | 95954  | 20.578 ug/l    | 92     |
| 19) trans-1,2-Dichloroethene  | 5.02 | 96  | 84039  | 20.378 ug/l    | 96     |
| 20) Diisopropyl ether         | 5.93 | 45  | 323752 | 20.424 ug/l    | 98     |
| 21) 1,1-Dichloroethane        | 5.82 | 63  | 179367 | 20.522 ug/l    | 97     |
| 22) cis-1,2-Dichloroethene    | 6.81 | 96  | 101792 | 20.145 ug/l    | 100    |
| 23) tert-Butyl Alcohol        | 4.77 | 59  | 72533  | 107.329 ug/l # | 100    |
| 24) Methyl tert-Butyl Ether   | 5.02 | 73  | 292011 | 20.589 ug/l #  | 100    |
| 25) Chloroform                | 7.36 | 83  | 179788 | 20.204 ug/l    | 100    |
| 26) Cyclohexane               | 7.64 | 56  | 144498 | 19.676 ug/l #  | 100    |
| 29) 1,1-Dichloropropene       | 7.78 | 75  | 130962 | 19.914 ug/l    | 98     |
| 30) 2-Butanone                | 6.82 | 43  | 297172 | 100.216 ug/l   | 99     |
| 31) 2,2-Dichloropropane       | 6.81 | 77  | 132507 | 19.084 ug/l    | 99     |
| 32) 1,1,1-Trichloroethane     | 7.56 | 97  | 143879 | 19.458 ug/l    | 97     |
| 33) Carbon Tetrachloride      | 7.76 | 117 | 112410 | 18.636 ug/l    | 99     |
| 34) Benzene                   | 8.03 | 78  | 391501 | 20.091 ug/l    | 99     |
| 35) Methacrylonitrile         | 7.15 | 41  | 59165  | 21.512 ug/l    | 95     |
| 36) 1,2-Dichloroethane        | 8.11 | 62  | 150595 | 19.915 ug/l    | 99     |
| 37) Trichloroethene           | 8.82 | 130 | 93512  | 19.758 ug/l    | 98     |
| 38) Methylcyclohexane         | 9.07 | 83  | 142492 | 19.028 ug/l    | 98     |
| 39) 1,2-Dichloropropane       | 9.11 | 63  | 108561 | 19.838 ug/l    | 95     |
| 40) Dibromomethane            | 9.20 | 93  | 66448  | 19.964 ug/l    | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090919\  
 Data File : VN057797.D  
 Acq On : 9 Sep 2019 13:14  
 Operator : JC/SP  
 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 09 16:17:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Sep 09 12:14:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 41) Bromodichloromethane       | 9.40  | 83   | 128732   | 19.184  | ug/l   | 98       |
| 42) Vinyl Acetate              | 5.87  | 43   | 1267903  | 106.387 | ug/l   | 99       |
| 43) Ethyl Acetate              | 6.91  | 43   | 123171   | 20.359  | ug/l # | 78       |
| 44) Isopropyl Acetate          | 8.15  | 43   | 206605   | 19.586  | ug/l # | 92       |
| 45) 1,4-Dioxane                | 9.19  | 88   | 34526    | 416.536 | ug/l   | 97       |
| 46) Methyl methacrylate        | 9.19  | 41   | 100279   | 19.461  | ug/l   | 99       |
| 47) n-amyl Acetate             | 12.07 | 43   | 185894   | 19.184  | ug/l   | 99       |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 132682   | 18.573  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene    | 9.83  | 75   | 150792   | 18.813  | ug/l   | 99       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 94879    | 19.652  | ug/l   | 95       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 148476   | 19.834  | ug/l   | 98       |
| 52) 1,3-Dichloropropane        | 10.71 | 76   | 168834   | 19.997  | ug/l   | 98       |
| 53) Dibromochloromethane       | 10.90 | 129  | 85795    | 17.994  | ug/l   | 98       |
| 54) 1,2-Dibromoethane          | 11.00 | 107  | 92739    | 19.306  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether  | 9.69  | 63   | 354874   | 99.764  | ug/l   | 99       |
| 56) Bromoform                  | 12.13 | 173  | 50678    | 17.157  | ug/l   | 97       |
| 58) 4-Methyl-2-Pentanone       | 9.98  | 43   | 643294   | 110.282 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.75 | 43   | 462762   | 105.717 | ug/l   | 100      |
| 61) Tetrachloroethene          | 10.63 | 164  | 77359    | 20.228  | ug/l   | 100      |
| 62) Toluene                    | 10.15 | 91   | 426932   | 20.498  | ug/l   | 99       |
| 64) Chlorobenzene              | 11.43 | 112  | 261231   | 20.219  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 88717    | 19.776  | ug/l   | 96       |
| 66) Ethyl Benzene              | 11.51 | 91   | 469346   | 20.648  | ug/l   | 100      |
| 67) m/p-Xylenes                | 11.62 | 106  | 345970   | 39.877  | ug/l   | 99       |
| 68) o-Xylene                   | 11.95 | 106  | 169821   | 19.980  | ug/l   | 97       |
| 69) Styrene                    | 11.97 | 104  | 288320   | 19.896  | ug/l   | 99       |
| 70) Isopropylbenzene           | 12.25 | 105  | 462091   | 20.564  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 141327   | 20.124  | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane     | 12.56 | 75   | 169535   | 27.199  | ug/l   | 72       |
| 73) Bromobenzene               | 12.53 | 156  | 103490   | 19.237  | ug/l   | 100      |
| 74) n-propylbenzene            | 12.59 | 91   | 538939   | 20.993  | ug/l   | 100      |
| 75) 2-Chlorotoluene            | 12.68 | 91   | 316641   | 19.802  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 385247   | 20.134  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 30915    | 16.718  | ug/l   | 98       |
| 78) 4-Chlorotoluene            | 12.78 | 91   | 318636   | 19.535  | ug/l   | 99       |
| 79) tert-butylbenzene          | 13.00 | 119  | 335961   | 20.126  | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 386464   | 20.271  | ug/l   | 100      |
| 81) sec-Butylbenzene           | 13.17 | 105  | 448228   | 20.238  | ug/l   | 100      |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 396783   | 20.005  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene        | 13.29 | 146  | 189969   | 18.998  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene        | 13.37 | 146  | 191284   | 19.430  | ug/l   | 98       |
| 85) n-Butylbenzene             | 13.62 | 91   | 362313   | 19.600  | ug/l   | 98       |
| 86) Hexachloroethane           | 13.88 | 117  | 54214    | 17.160  | ug/l   | 99       |
| 87) 1,2-Dichlorobenzene        | 13.66 | 146  | 191522   | 19.731  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.28 | 75   | 22742    | 18.393  | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 114736   | 19.351  | ug/l   | 96       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 51167    | 18.790  | ug/l   | 98       |
| 91) Naphthalene                | 15.13 | 128  | 331053   | 20.292  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 112207   | 19.843  | ug/l   | 98       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090919\  
Data File : VN057797.D  
Acq On : 9 Sep 2019 13:14  
Operator : JC/SP  
Sample : VSTDCCC020  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Sep 09 16:17:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Sep 09 12:14:07 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

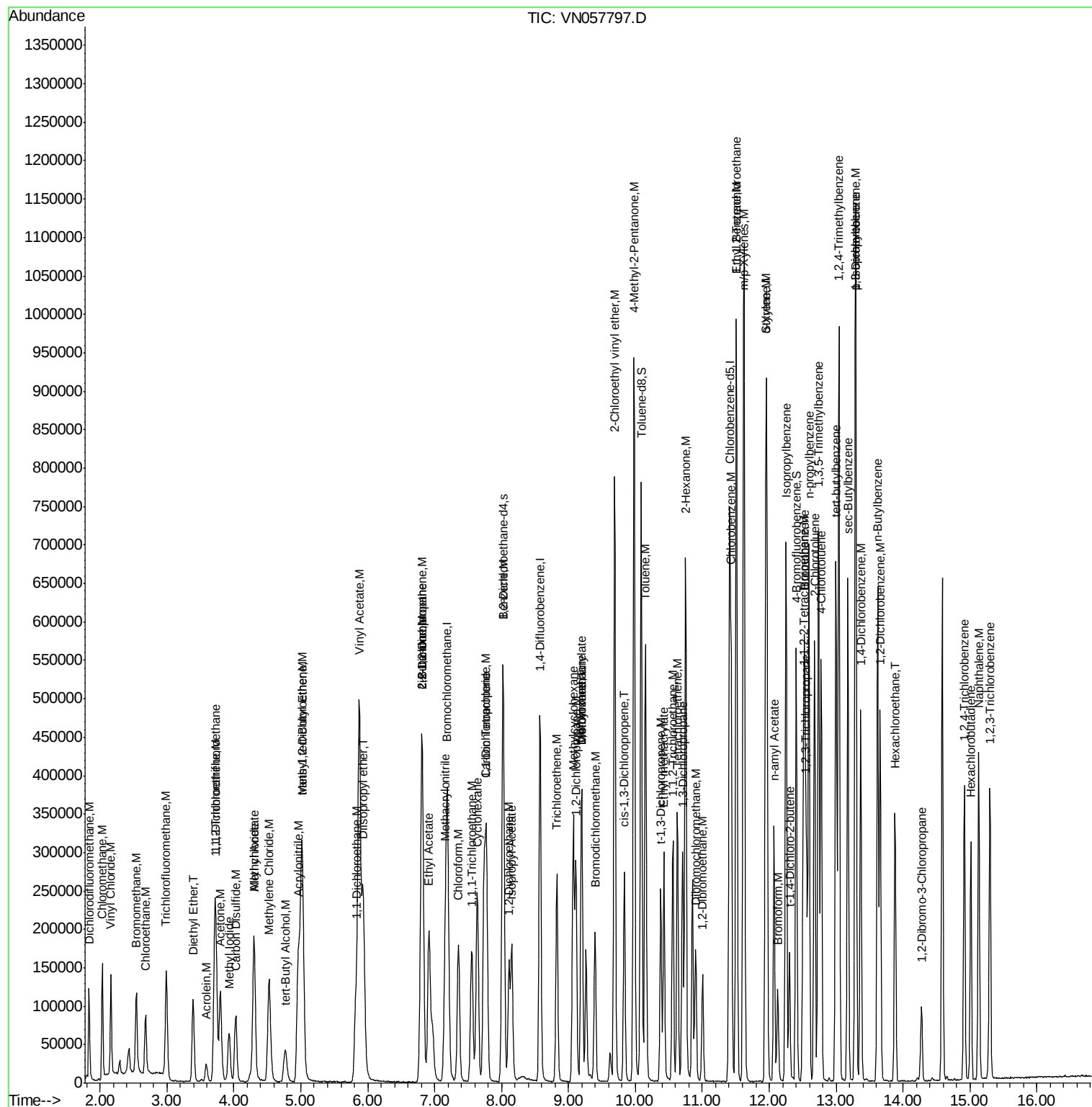
-----

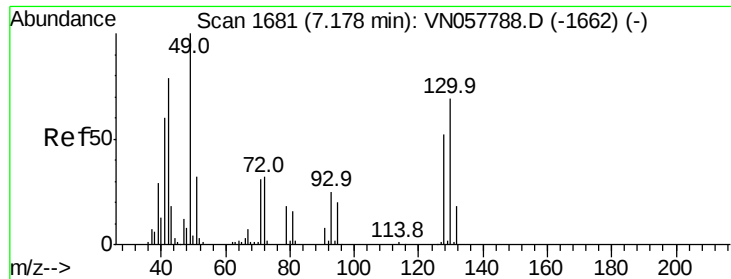
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090919\  
 Data File : VN057797.D  
 Acq On : 9 Sep 2019 13:14  
 Operator : JC/SP  
 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 09 16:17:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Sep 09 12:14:07 2019  
 Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :  
MSVOA\_N  
ClientSampled :

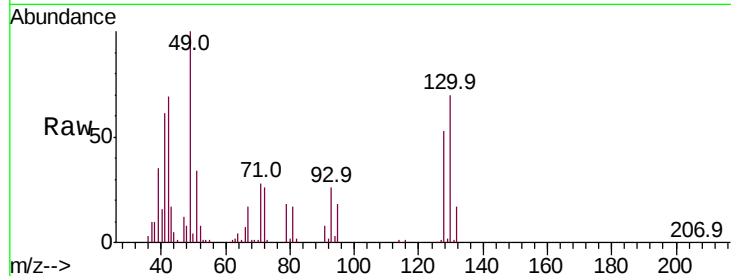
Tot Ion:128 Resp: 69979

Ion Ratio Lower Upper

128 100

49 187.6 0.0 486.5

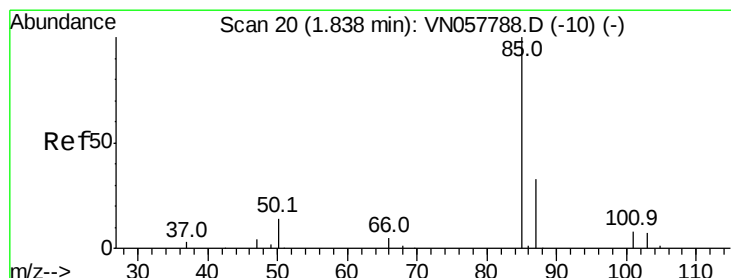
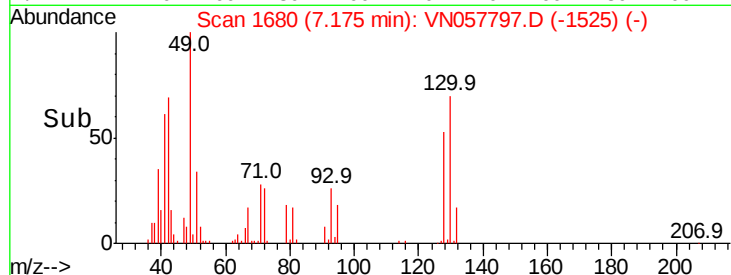
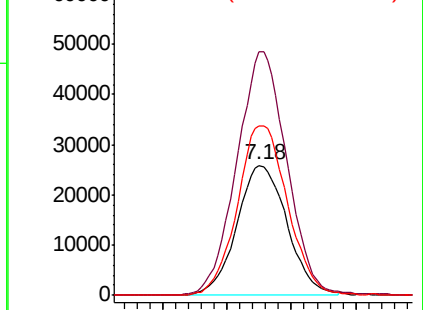
130 131.0 0.0 324.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 20.514 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN057797.D

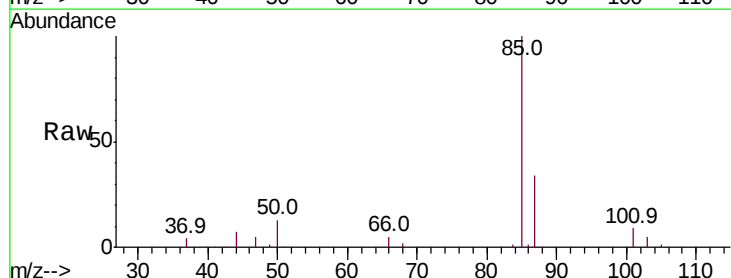
Acq: 9 Sep 2019 13:14

Tgt Ion: 85 Resp: 86733

Ion Ratio Lower Upper

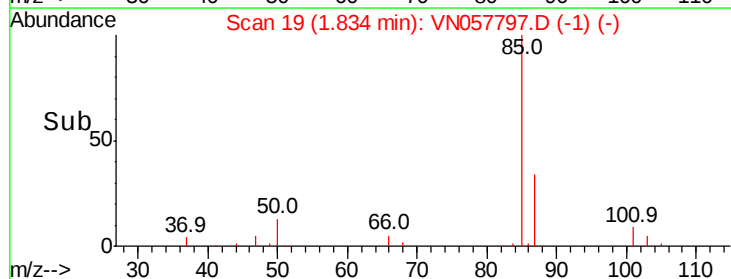
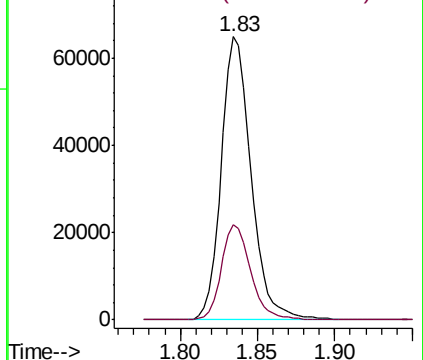
85 100

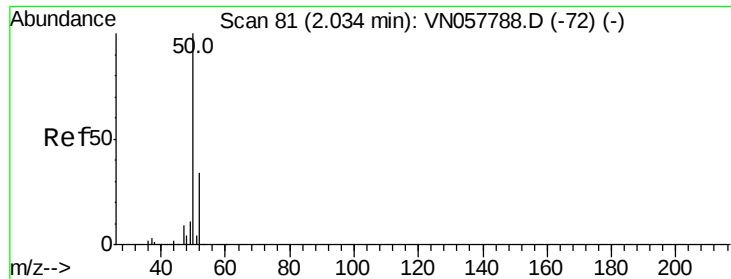
87 33.7 16.4 49.4



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 20.768 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

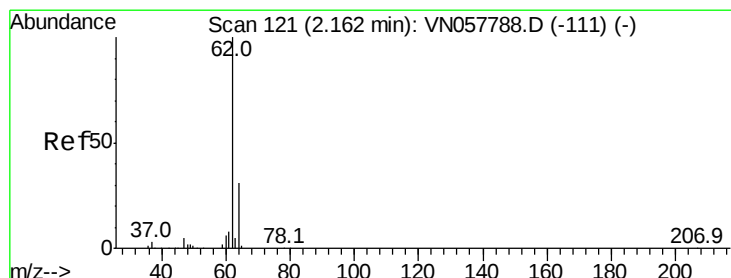
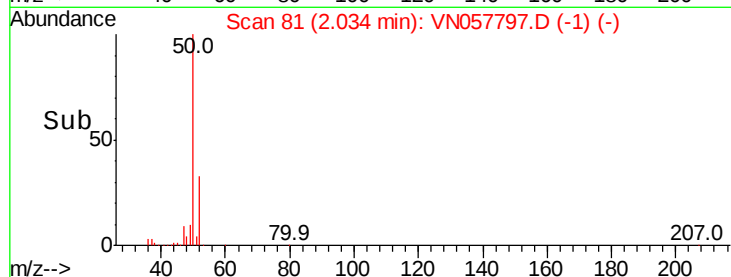
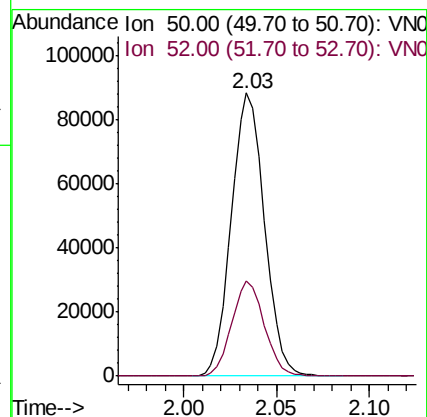
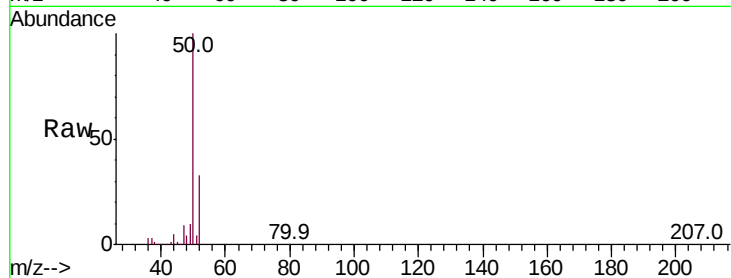
ClientSampled :

Tot Ion: 50 Resp: 109489

Ion Ratio Lower Upper

50 100

52 33.4 26.9 40.3



#4

Vinyl Chloride

Concen: 21.178 ug/l

RT: 2.16 min Scan# 121

Delta R.T. 0.00 min

Lab File: VN057797.D

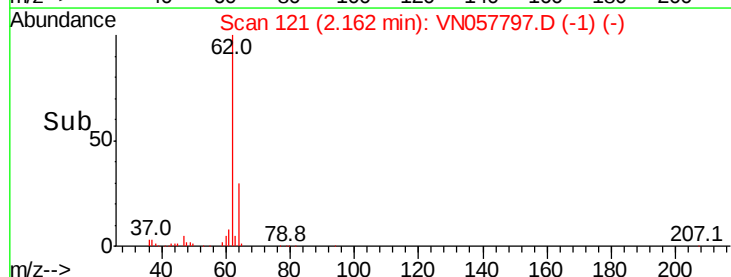
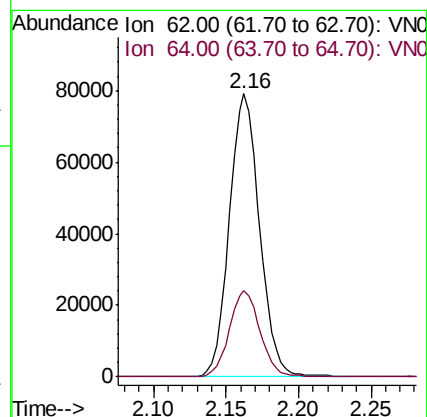
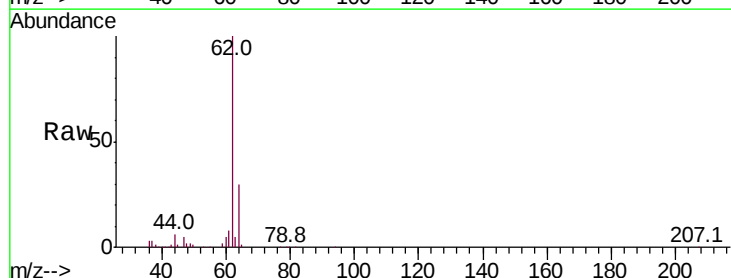
Acq: 9 Sep 2019 13:14

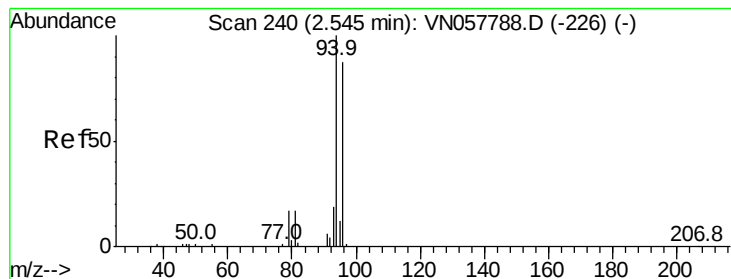
Tgt Ion: 62 Resp: 114235

Ion Ratio Lower Upper

62 100

64 30.3 25.0 37.6





#5

Bromomethane

Concen: 20.991 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

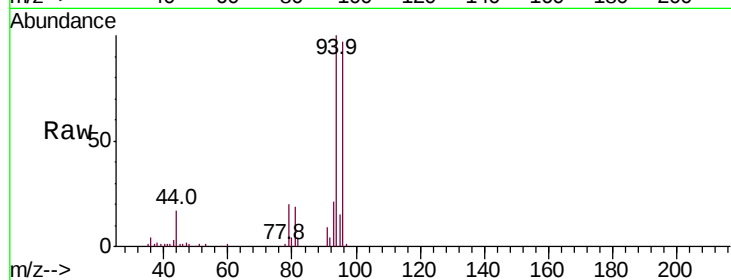
ClientSampled :

Tot Ion: 94 Resp: 70662

Ion Ratio Lower Upper

94 100

96 97.3 69.2 103.8



Abundance Ion 94.00 (93.70 to 94.70): VN057797.D (-127) (-)

Ion 96.00 (95.70 to 96.70): VN057797.D (-127) (-)

2.54

40000

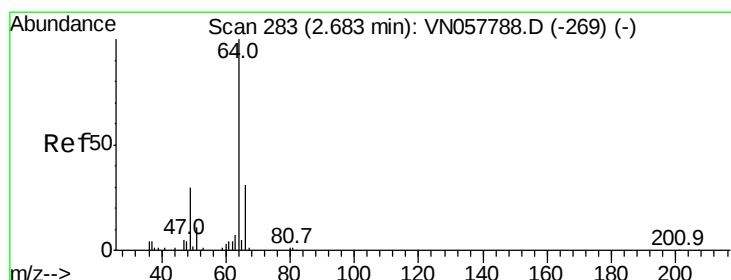
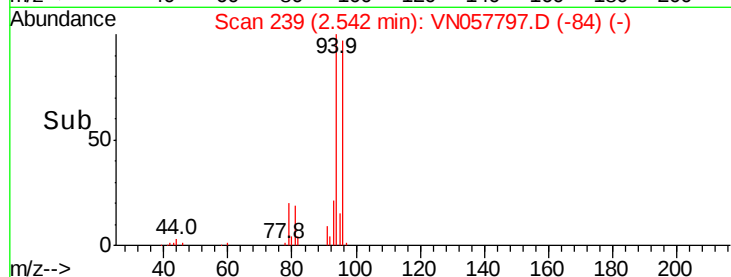
30000

20000

10000

0

Time--> 2.45 2.50 2.55 2.60



#6

Chloroethane

Concen: 20.631 ug/l

RT: 2.68 min Scan# 282

Delta R.T. -0.00 min

Lab File: VN057797.D

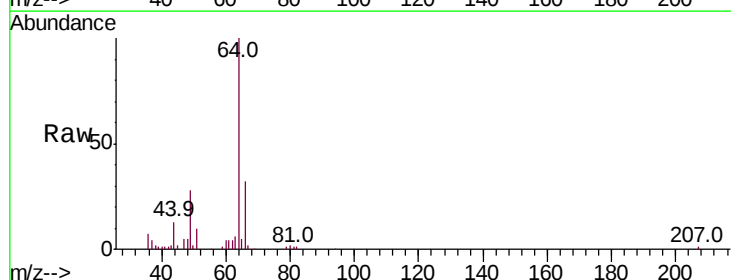
Acq: 9 Sep 2019 13:14

Tgt Ion: 64 Resp: 69161

Ion Ratio Lower Upper

64 100

66 32.2 24.4 36.6



Abundance Ion 64.00 (63.70 to 64.70): VN057797.D (-127) (-)

Ion 66.00 (65.70 to 66.70): VN057797.D (-127) (-)

2.68

40000

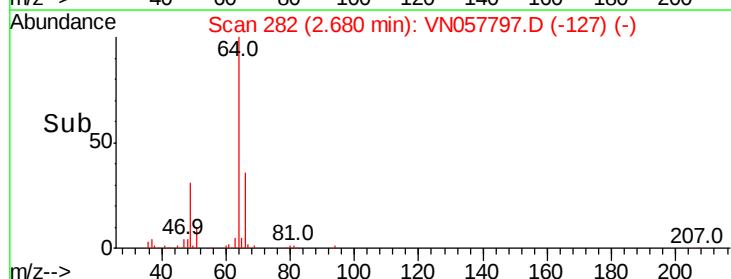
30000

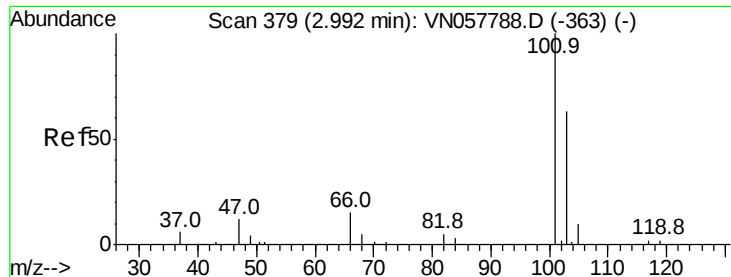
20000

10000

0

Time--> 2.60 2.65 2.70 2.75



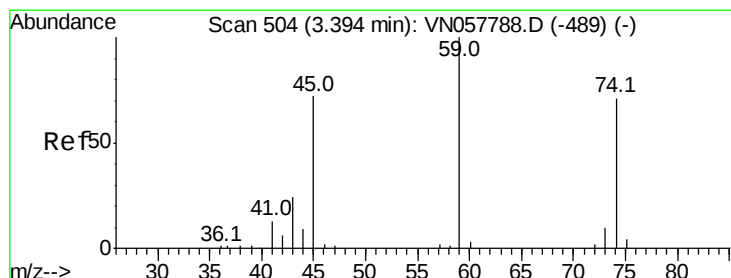
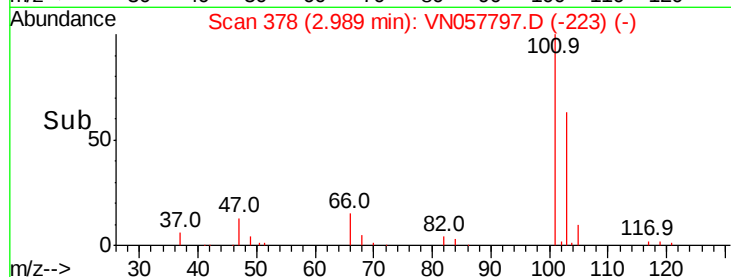
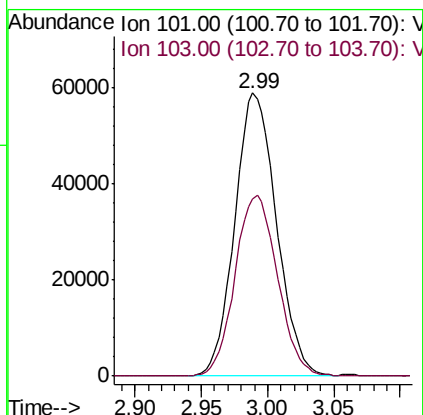
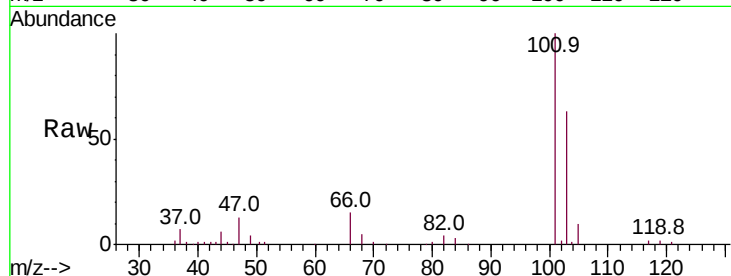


#7

Trichlorofluoromethane  
Concen: 20.651 ug/l  
RT: 2.99 min Scan# 378  
Delta R.T. -0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Instrument :  
MSVOA\_N  
ClientSampled :

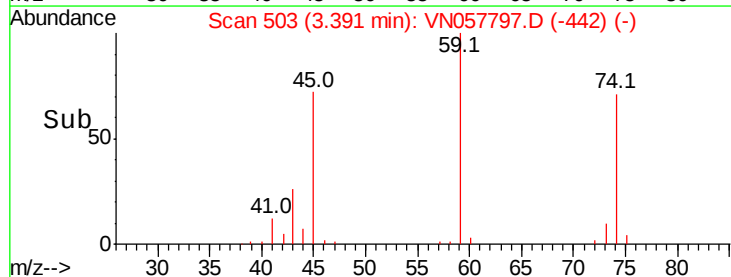
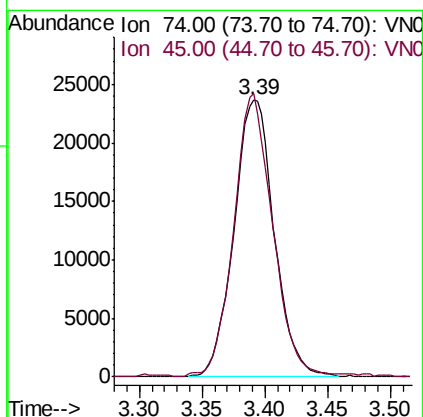
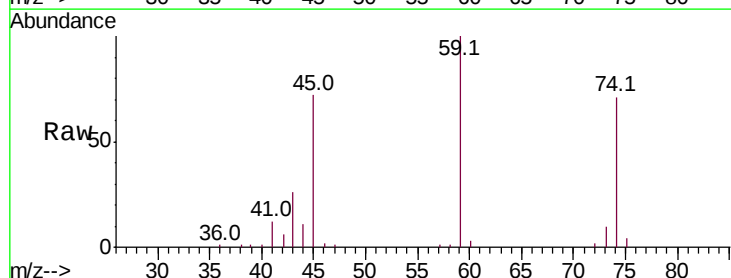
Tot Ion:101 Resp: 128691  
Ion Ratio Lower Upper  
101 100  
103 62.8 50.2 75.2

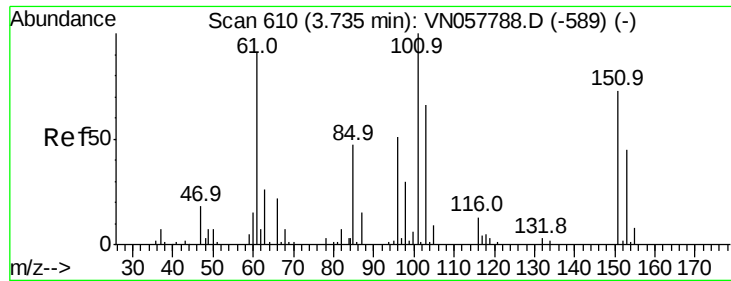


#8

Diethyl Ether  
Concen: 20.992 ug/l  
RT: 3.39 min Scan# 503  
Delta R.T. -0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 74 Resp: 52774  
Ion Ratio Lower Upper  
74 100  
45 98.7 20.3 182.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.751 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

ClientSampled :

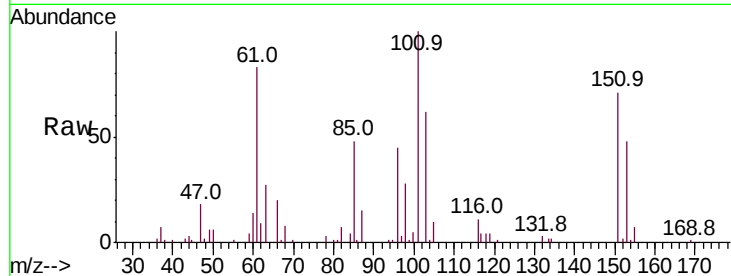
Tot Ion:101 Resp: 80746

Ion Ratio Lower Upper

101 100

85 46.2 0.0 94.0

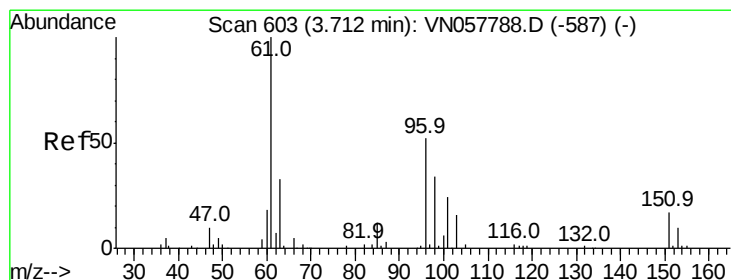
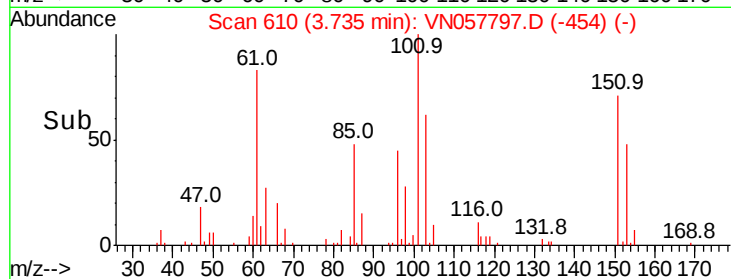
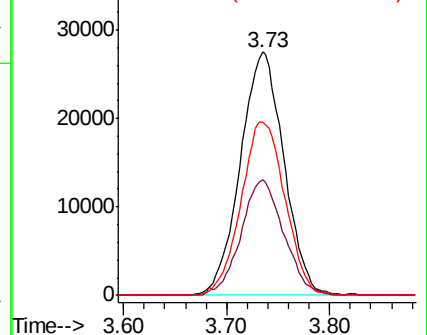
151 71.9 0.0 144.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 20.337 ug/l

RT: 3.71 min Scan# 603

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

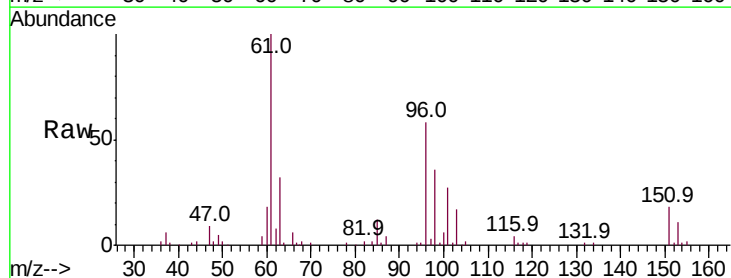
Tgt Ion: 96 Resp: 75252

Ion Ratio Lower Upper

96 100

61 172.3 153.4 230.0

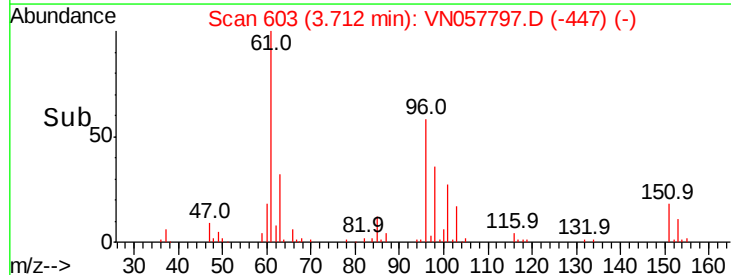
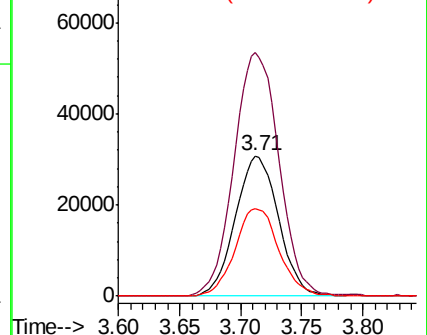
98 62.0 51.5 77.3

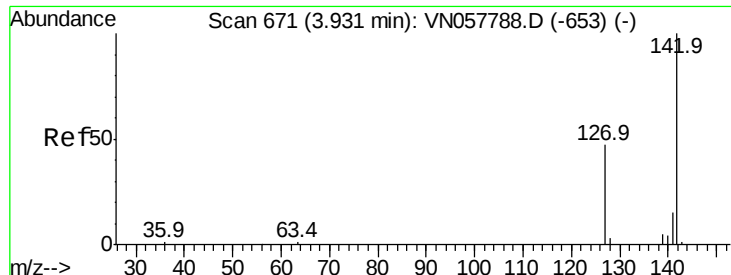


Abundance Ion 96.00 (95.70 to 96.70): VN

Ion 61.00 (60.70 to 61.70): VN

Ion 98.00 (97.70 to 98.70): VN

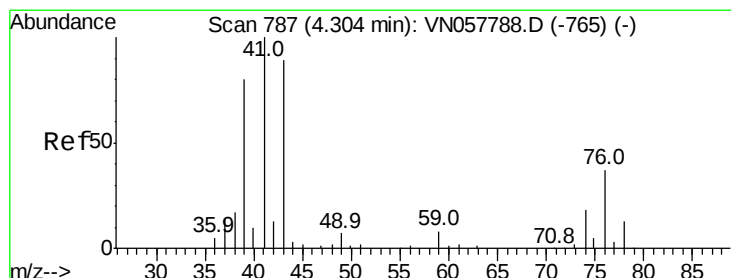
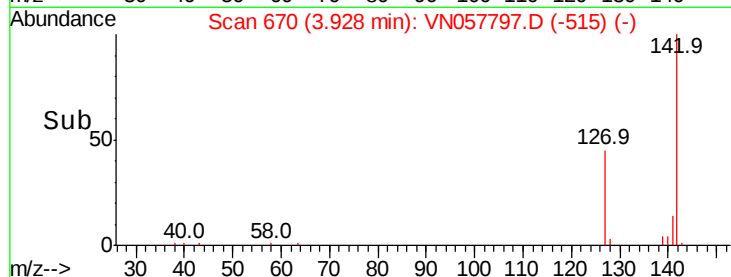
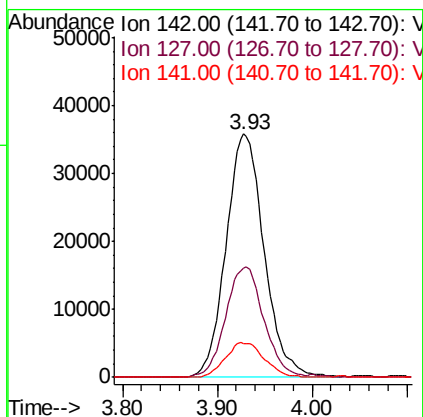
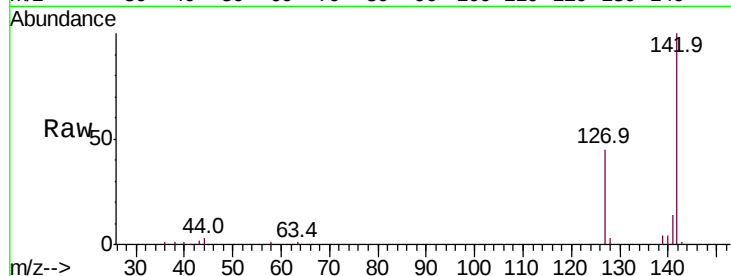




#11  
Methvl Iodide  
Concen: 20.236 ug/l  
RT: 3.93 min Scan# 670  
Delta R.T. -0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

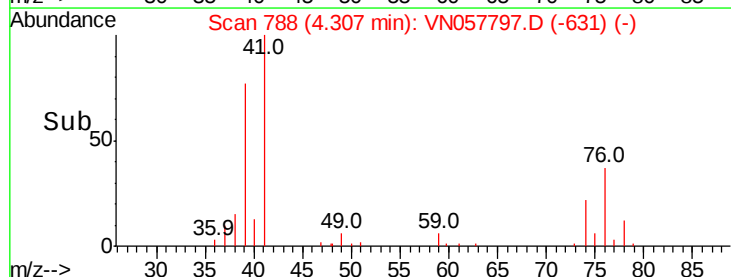
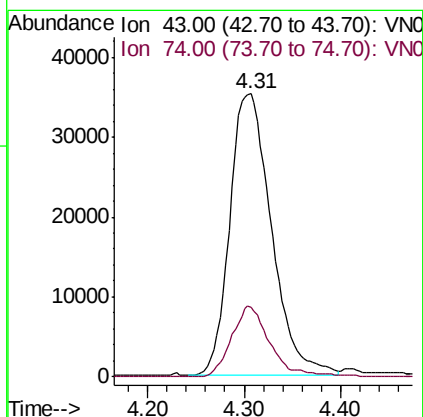
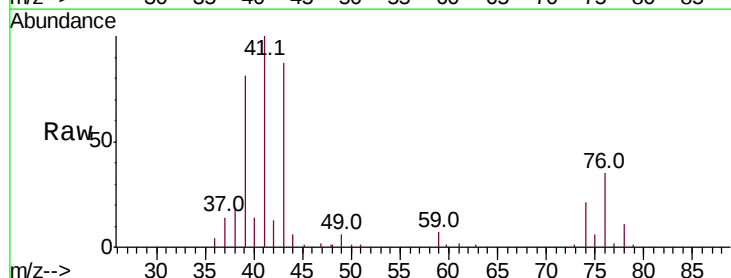
Instrument :  
MSVOA\_N  
ClientSampled :

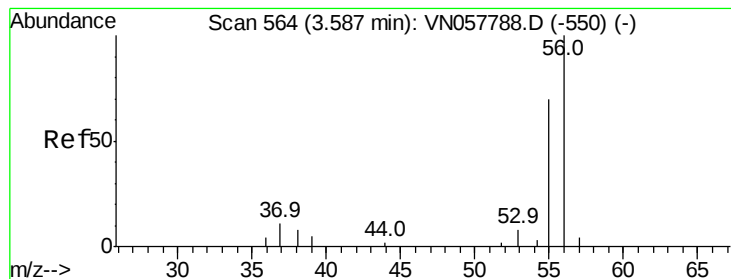
Tot Ion:142 Resp: 100182  
Ion Ratio Lower Upper  
142 100  
127 44.9 23.3 69.8  
141 13.7 7.5 22.6



#12  
Methyl Acetate  
Concen: 20.779 ug/l  
RT: 4.31 min Scan# 788  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 43 Resp: 105515  
Ion Ratio Lower Upper  
43 100  
74 24.4 16.2 24.4#





#13

Acrolein

Concen: 91.025 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

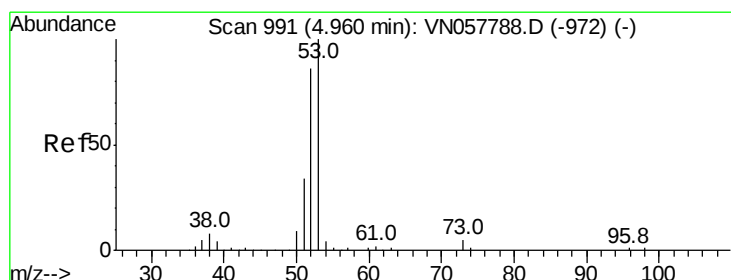
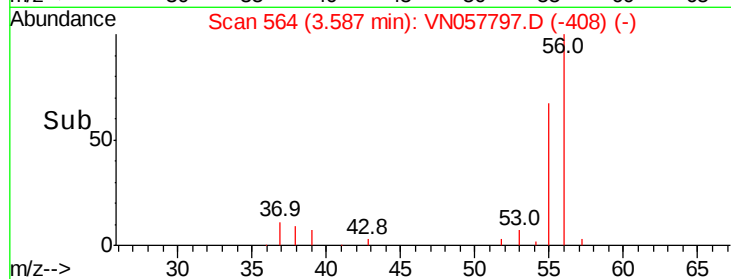
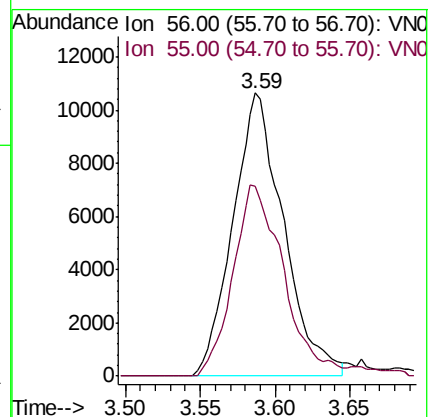
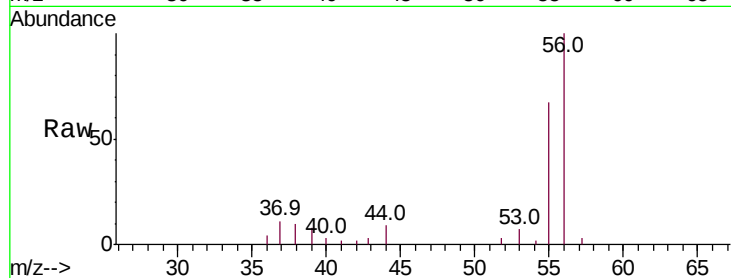
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 56 Resp: 25079

Ion Ratio Lower Upper

56 100

55 65.7 59.0 88.4



#14

Acrylonitrile

Concen: 103.693 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

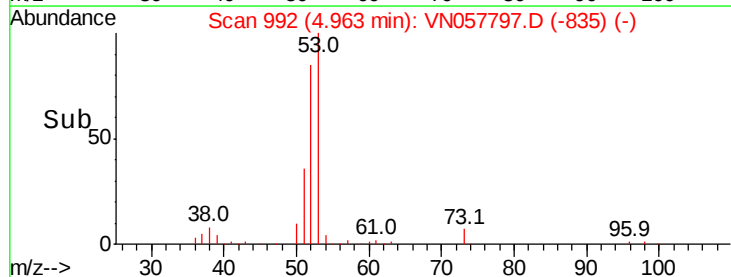
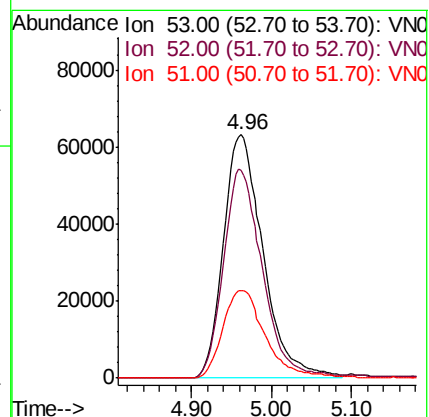
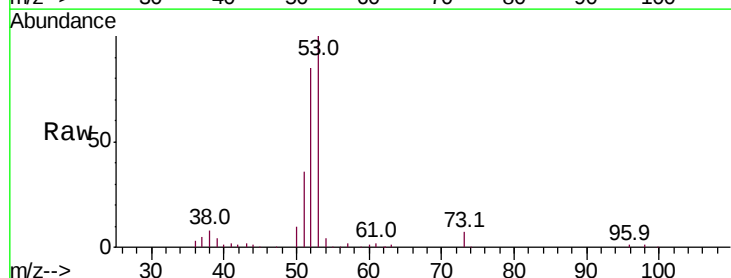
Tgt Ion: 53 Resp: 214655

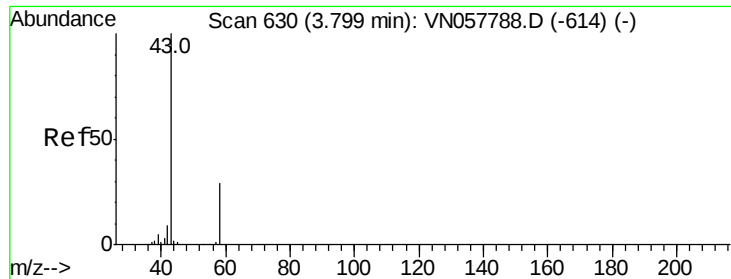
Ion Ratio Lower Upper

53 100

52 83.5 41.0 123.0

51 38.0 8.6 25.8#





#15

Acetone

Concen: 96.583 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

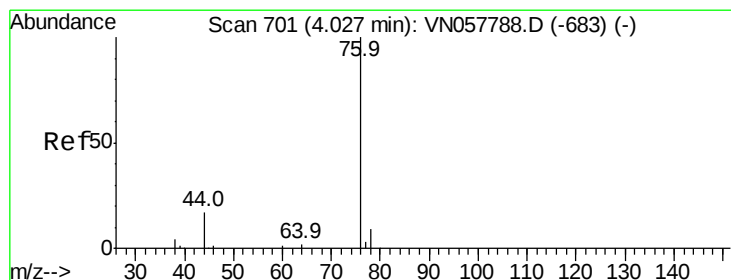
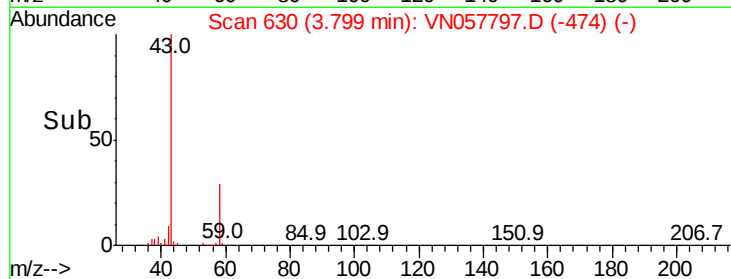
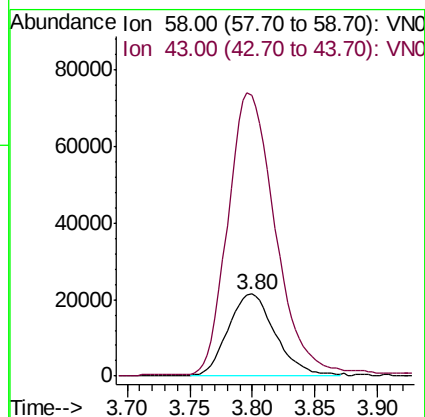
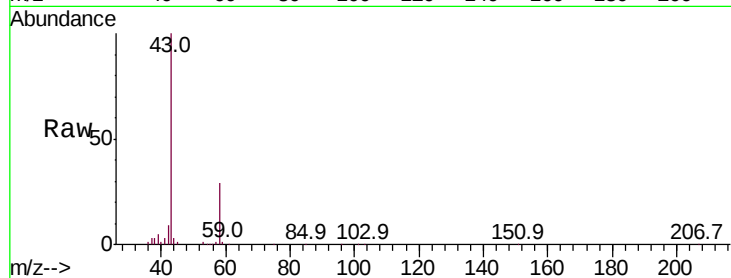
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 58 Resp: 56762

Ion Ratio Lower Upper

58 100

43 340.3 277.7 416.5



#16

Carbon Disulfide

Concen: 19.652 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN057797.D

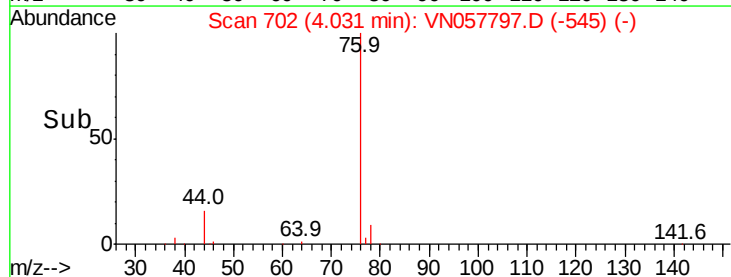
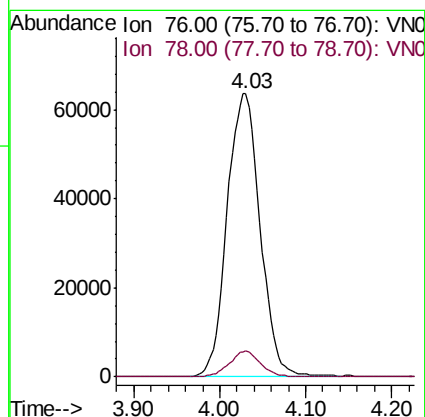
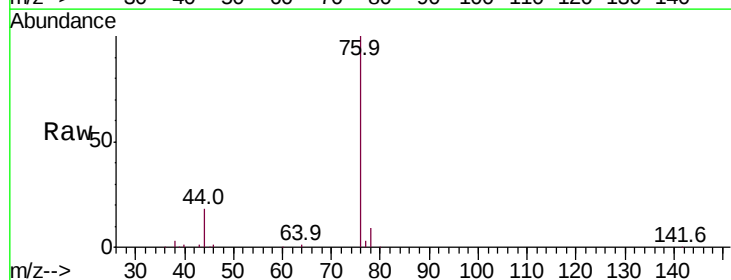
Acq: 9 Sep 2019 13:14

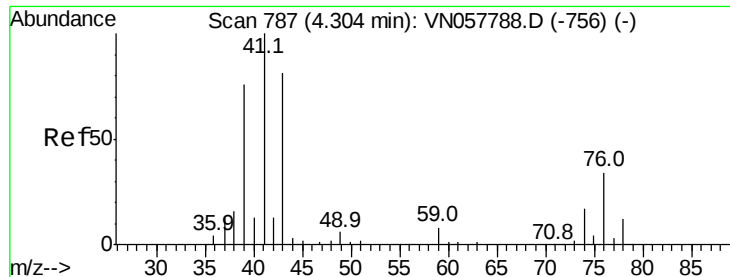
Tgt Ion: 76 Resp: 169330

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

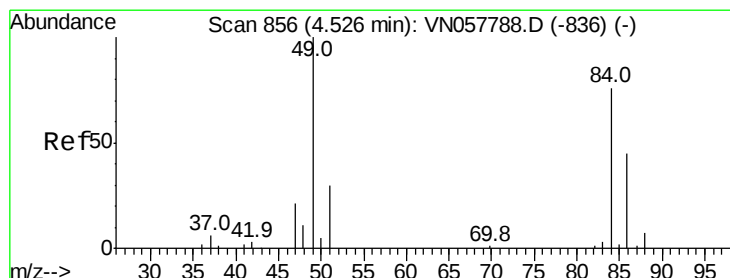
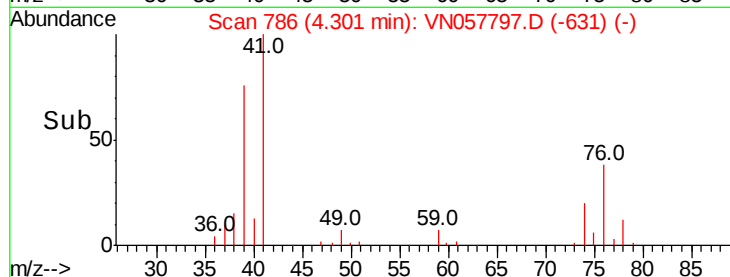
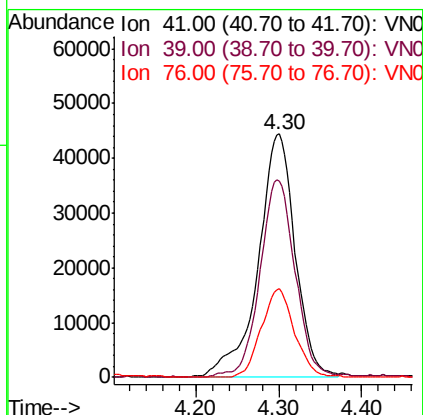
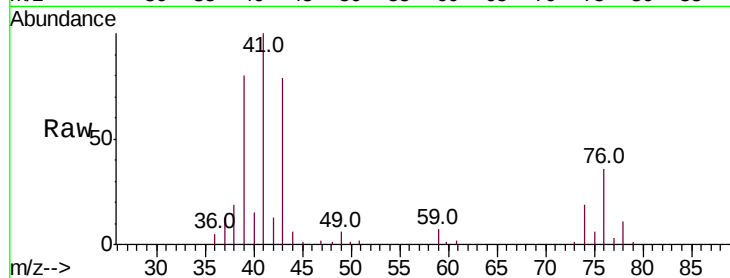




#17  
Allvl chloride  
Concen: 20.428 ug/l  
RT: 4.30 min Scan# 786  
Delta R.T. -0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

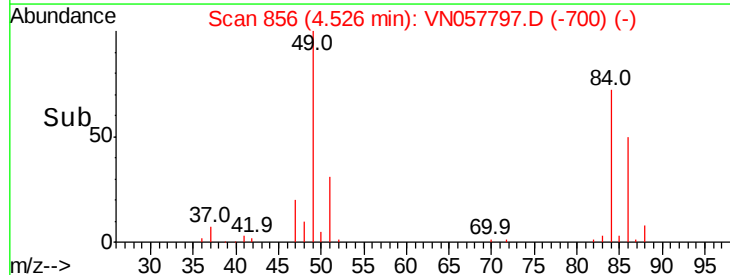
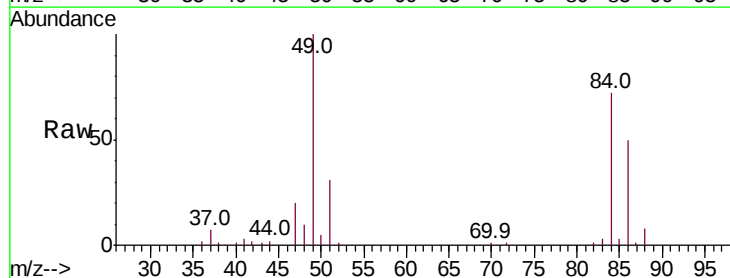
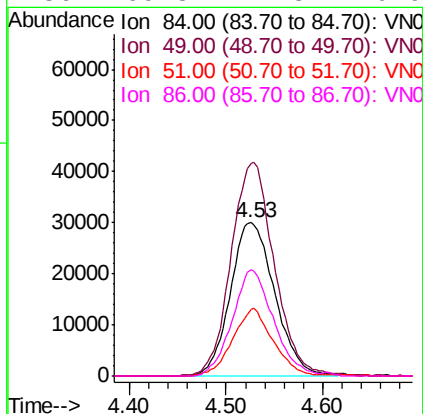
Instrument :  
MSVOA\_N  
ClientSampled :

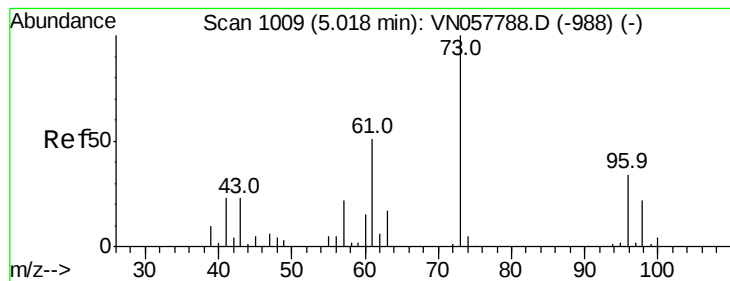
Tot Ion: 41 Resp: 138513  
Ion Ratio Lower Upper  
41 100  
39 80.1 38.5 115.3  
76 36.2 17.2 51.6



#18  
Methylene Chloride  
Concen: 20.578 ug/l  
RT: 4.53 min Scan# 856  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 84 Resp: 95954  
Ion Ratio Lower Upper  
84 100  
49 138.3 105.4 158.2  
51 43.2 31.3 46.9  
86 69.8 47.3 70.9





#19

trans-1,2-Dichloroethene

Concen: 20.378 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :  
MSVOA\_N  
ClientSampled :

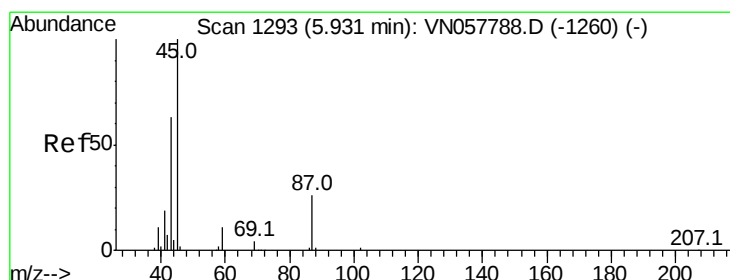
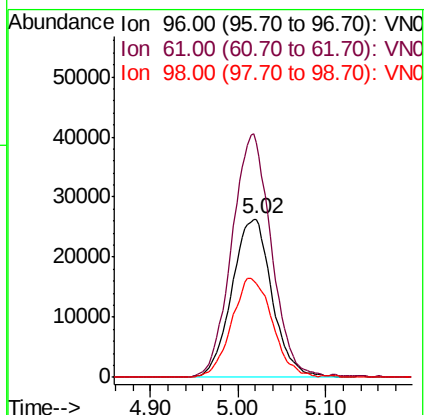
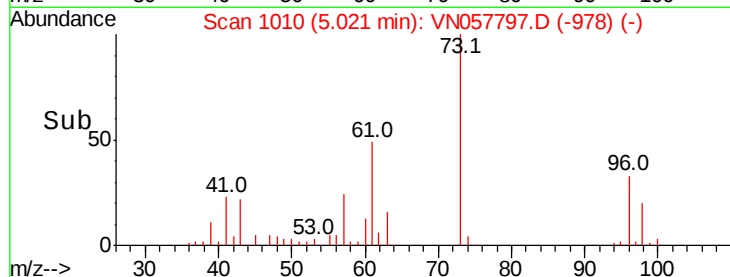
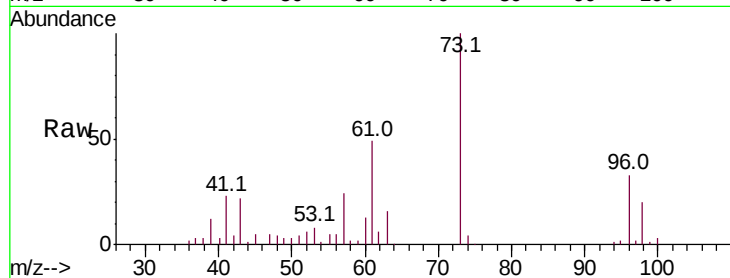
Tot Ion: 96 Resp: 84039

Ion Ratio Lower Upper

96 100

61 148.4 121.0 181.6

98 58.9 52.7 79.1



#20

Diisopropyl ether

Concen: 20.424 ug/l

RT: 5.93 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Tgt Ion: 45 Resp: 323752

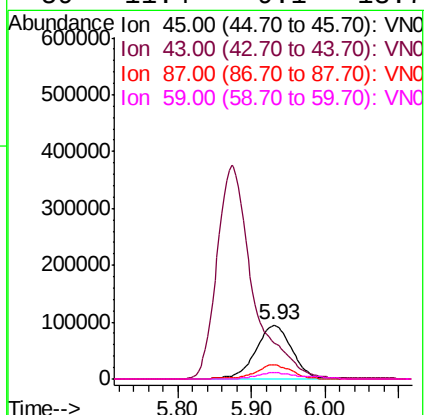
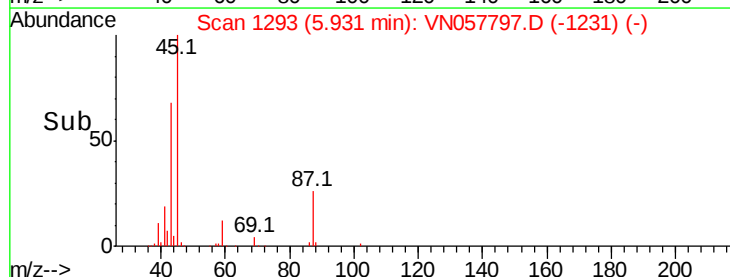
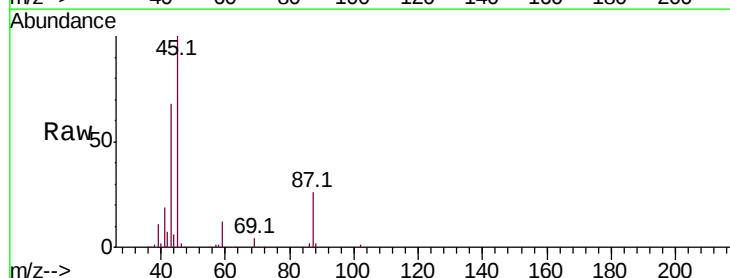
Ion Ratio Lower Upper

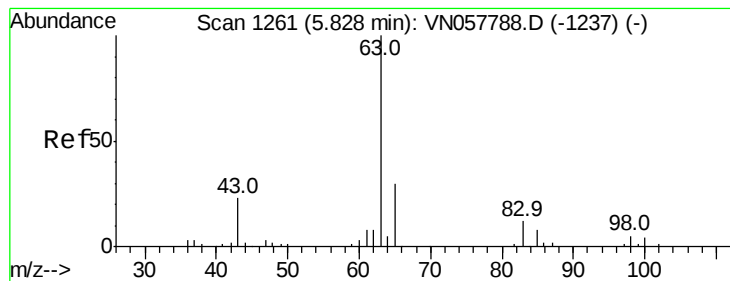
45 100

43 66.3 55.2 82.8

87 26.0 21.3 31.9

59 11.4 9.1 13.7





#21

1,1-Dichloroethane

Concen: 20.522 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :  
MSVOA\_N  
ClientSampleId :

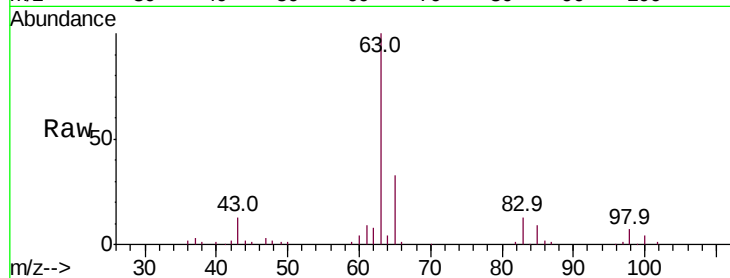
Tot Ion: 63 Resp: 179367

Ion Ratio Lower Upper

63 100

98 6.7 2.8 8.3

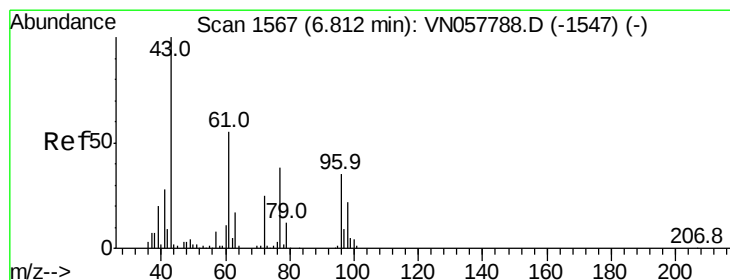
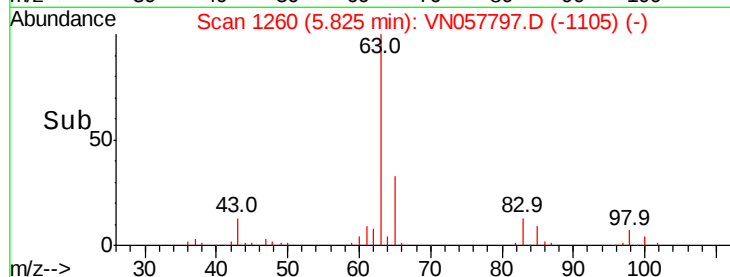
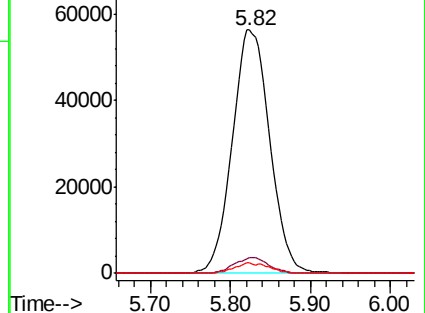
100 4.1 1.8 5.5



Abundance Ion 63.00 (62.70 to 63.70): VN057788.D (-1237) (-)

Ion 98.00 (97.70 to 98.70): VN057788.D (-1237) (-)

Ion 100.00 (99.70 to 100.70): VN057788.D (-1237) (-)



#22

cis-1,2-Dichloroethene

Concen: 20.145 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

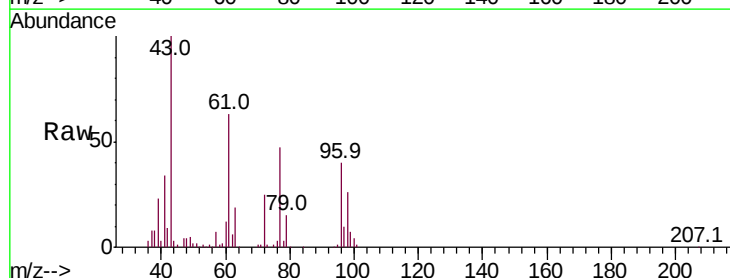
Tgt Ion: 96 Resp: 101792

Ion Ratio Lower Upper

96 100

61 159.6 127.4 191.0

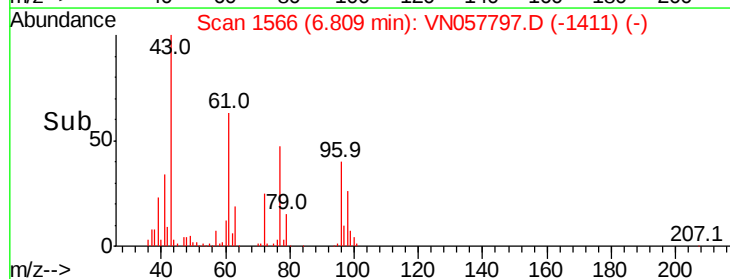
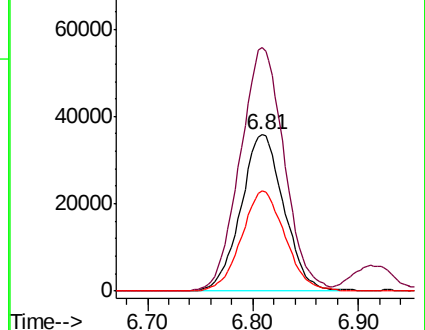
98 64.7 51.5 77.3

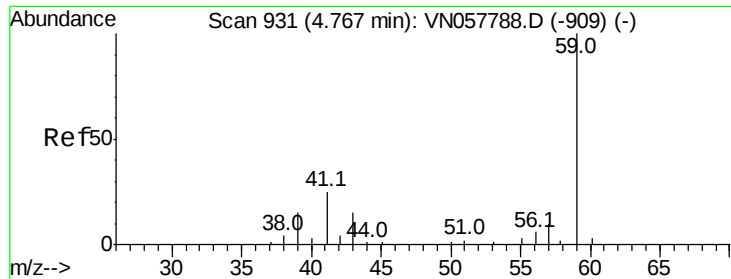


Abundance Ion 96.00 (95.70 to 96.70): VN057788.D (-1547) (-)

Ion 61.00 (60.70 to 61.70): VN057788.D (-1547) (-)

Ion 98.00 (97.70 to 98.70): VN057788.D (-1547) (-)

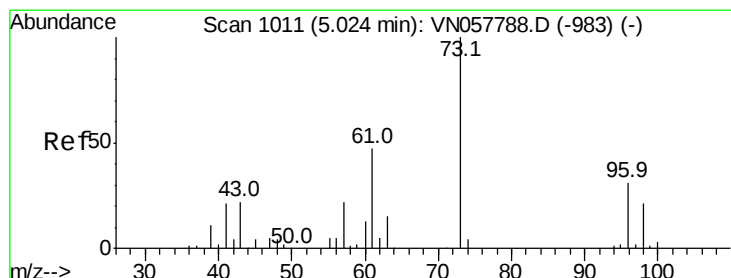
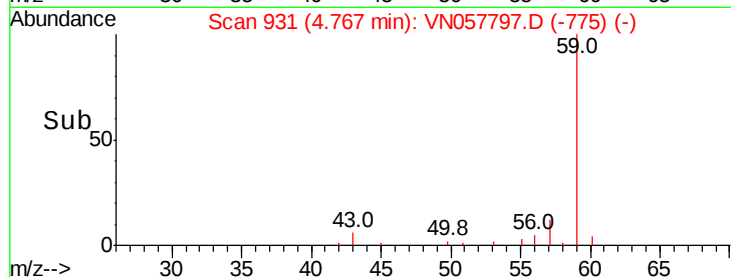
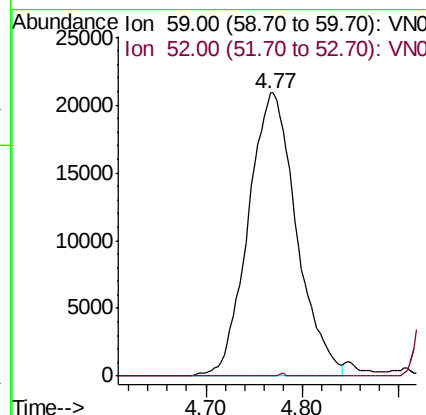
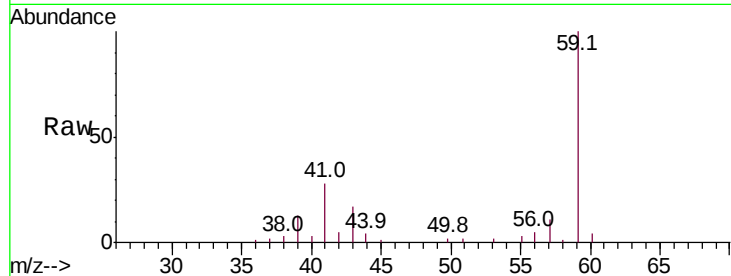




#23  
 tert-Butyl Alcohol  
 Concen: 107.329 ug/l  
 RT: 4.77 min Scan# 931  
 Delta R.T. 0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

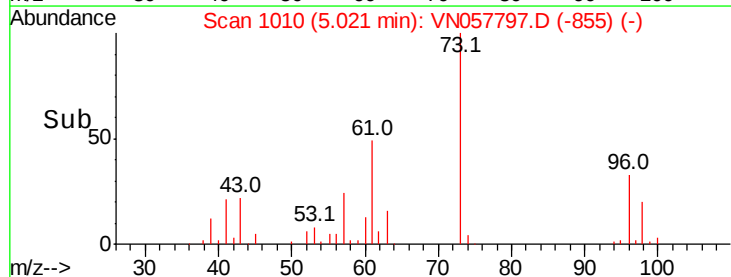
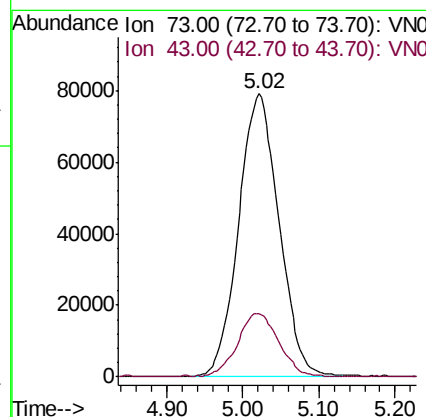
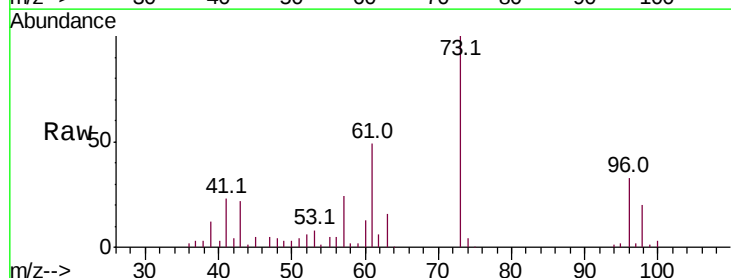
Instrument :  
 MSVOA\_N  
 ClientSampleId :

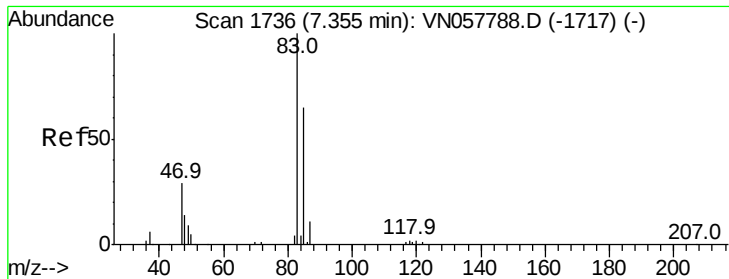
Tot Ion: 59 Resp: 72533  
 Ion Ratio Lower Upper  
 59 100  
 52 0.1 0.0 0.0#



#24  
 Methyl tert-Butyl Ether  
 Concen: 20.589 ug/l  
 RT: 5.02 min Scan# 1010  
 Delta R.T. -0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

Tgt Ion: 73 Resp: 292011  
 Ion Ratio Lower Upper  
 73 100  
 43 22.0 0.0 0.0#





#25

Chloroform

Concen: 20.204 ug/l

RT: 7.36 min Scan# 1736

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

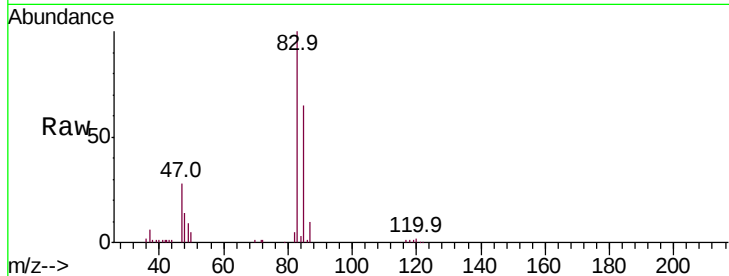
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 83 Resp: 179788

Ion Ratio Lower Upper

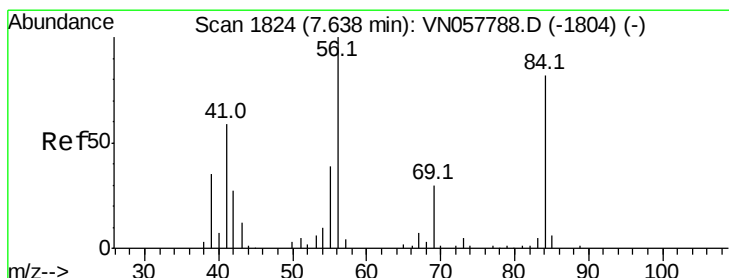
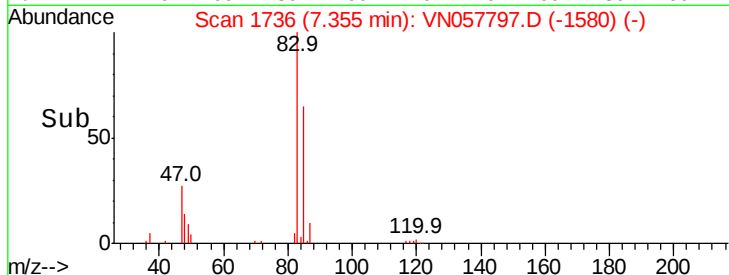
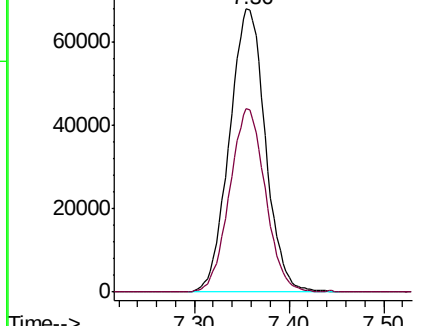
83 100

85 64.7 51.8 77.6



Abundance Ion 83.00 (82.70 to 83.70): VN057788.D (-1717) (-)

Ion 85.00 (84.70 to 85.70): VN057788.D (-1717) (-)



#26

Cyclohexane

Concen: 19.676 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

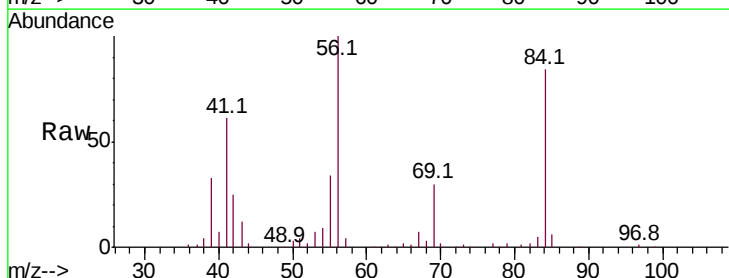
Tgt Ion: 56 Resp: 144498

Ion Ratio Lower Upper

56 100

89 0.1 0.3 0.5#

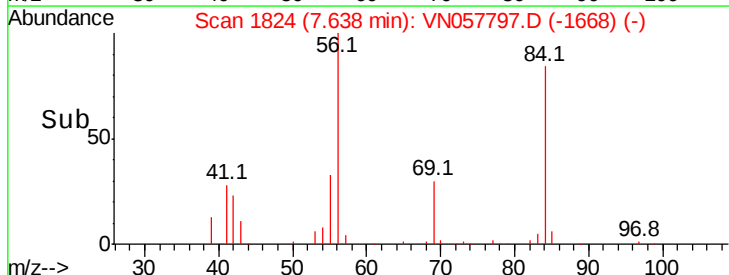
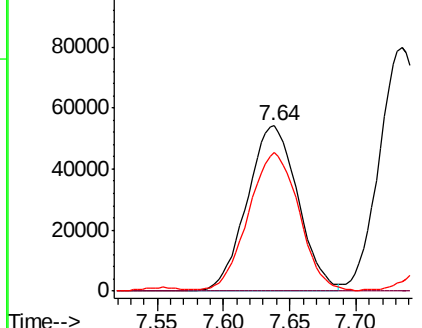
84 83.6 66.6 100.0

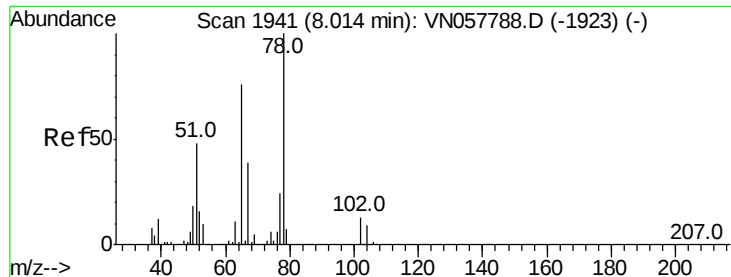


Abundance Ion 56.00 (55.70 to 56.70): VN057788.D (-1804) (-)

Ion 89.00 (88.70 to 89.70): VN057788.D (-1804) (-)

Ion 84.00 (83.70 to 84.70): VN057788.D (-1804) (-)





#27

1,2-Dichloroethane-d4

Concen: 30.577 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

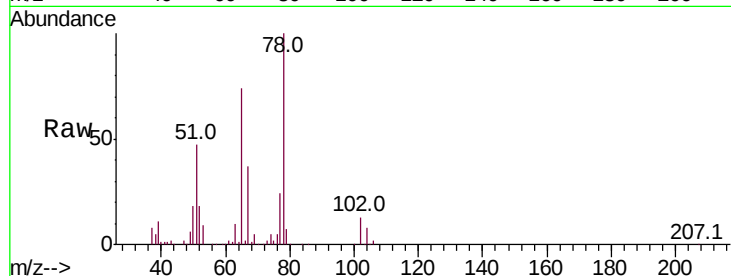
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 65 Resp: 189273

Ion Ratio Lower Upper

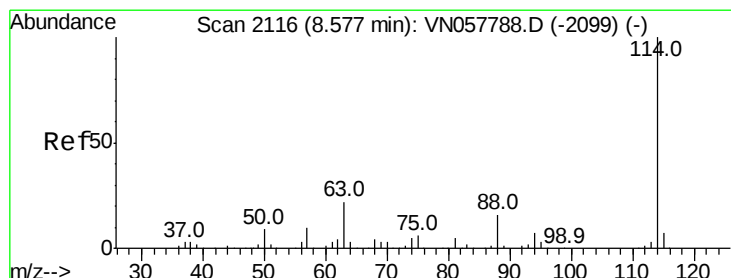
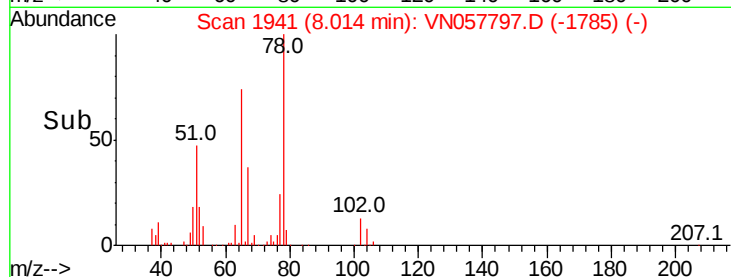
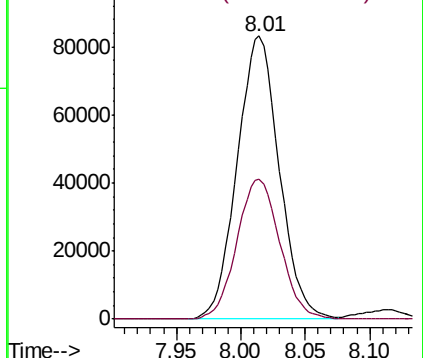
65 100

67 50.5 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

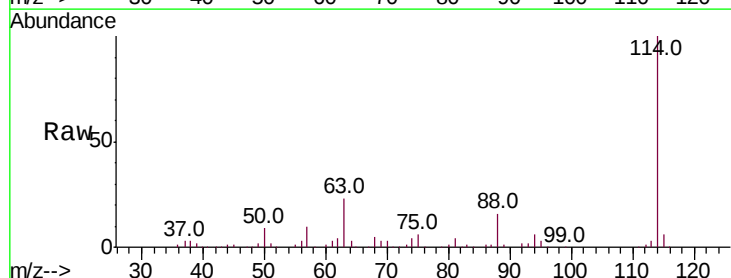
Tgt Ion: 114 Resp: 418049

Ion Ratio Lower Upper

114 100

63 22.7 18.0 27.0

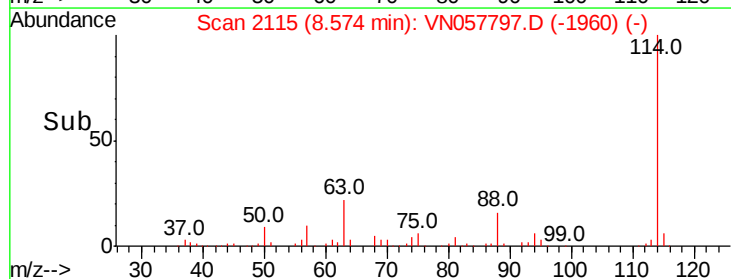
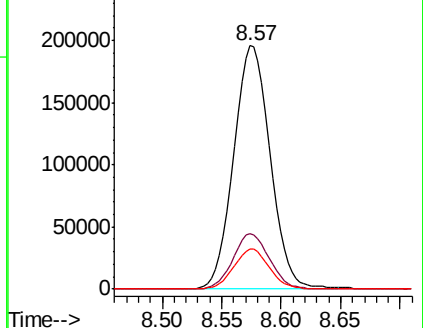
88 16.2 12.6 19.0

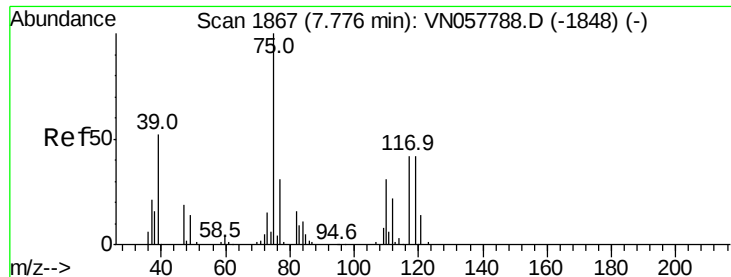


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

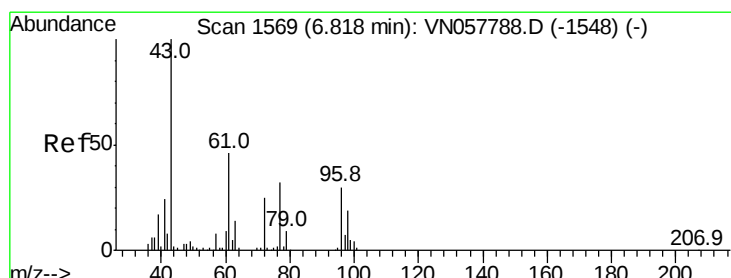
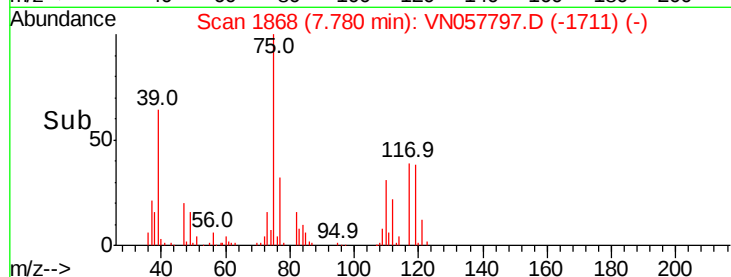
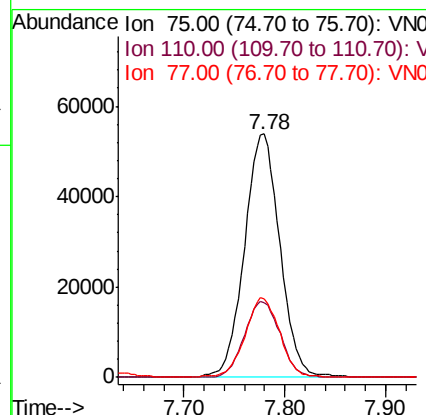
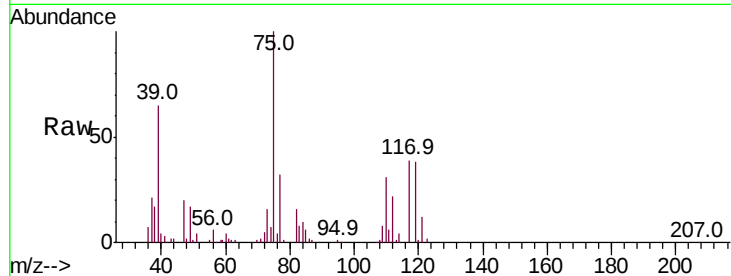




#29  
 1,1-Dichloropropene  
 Concen: 19.914 ug/l  
 RT: 7.78 min Scan# 1868  
 Delta R.T. 0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

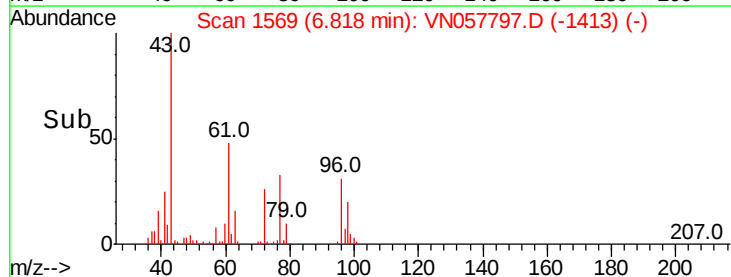
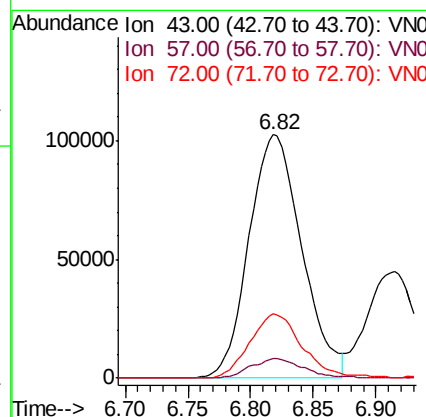
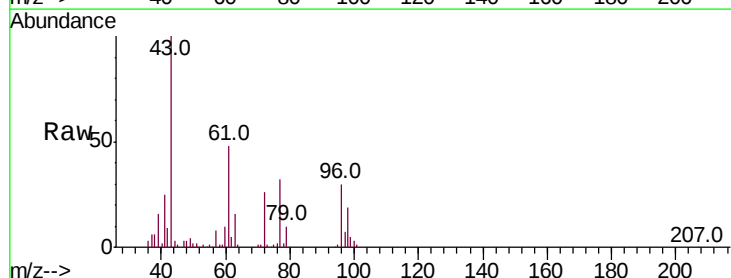
Instrument :  
 MSVOA\_N  
 ClientSampleId :

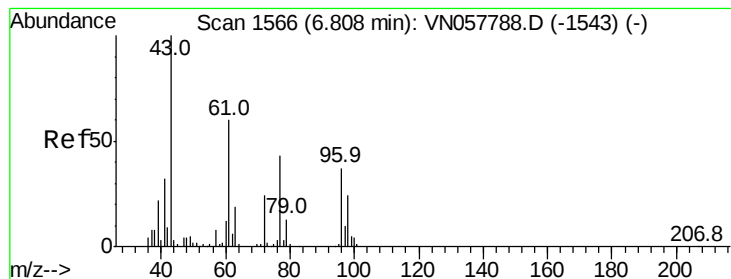
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 31.2  | 0.0   | 63.8  |
| 77      | 31.8  | 0.0   | 60.0  |



#30  
 2-Butanone  
 Concen: 100.216 ug/l  
 RT: 6.82 min Scan# 1569  
 Delta R.T. 0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 8.1   | 6.4   | 9.6   |
| 72      | 26.1  | 20.3  | 30.5  |





#31

2,2-Dichloropropane

Concen: 19.084 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

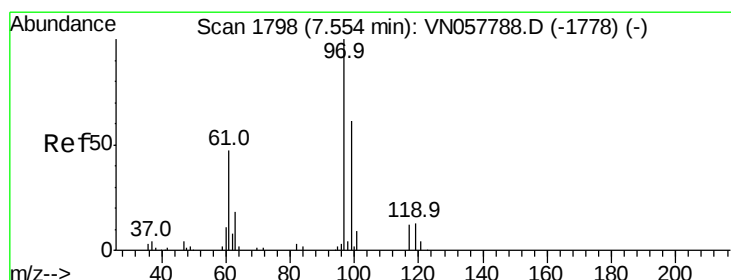
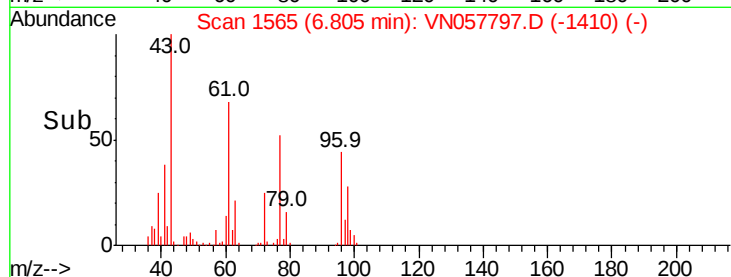
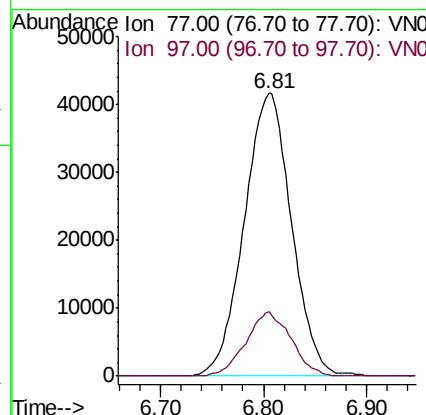
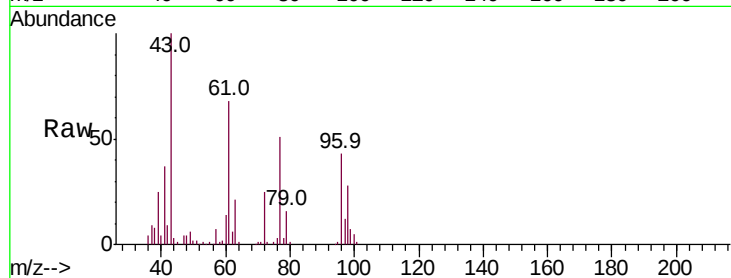
ClientSampleId :

Tot Ion: 77 Resp: 132507

Ion Ratio Lower Upper

77 100

97 21.8 17.7 26.5



#32

1,1,1-Trichloroethane

Concen: 19.458 ug/l

RT: 7.56 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

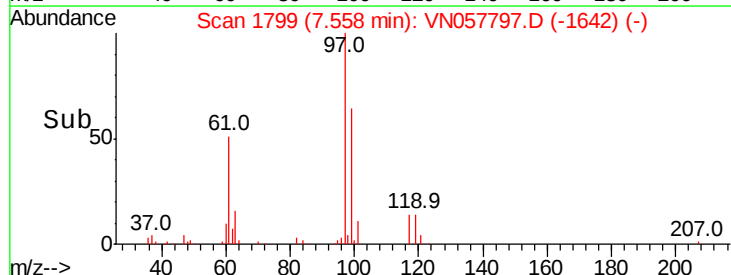
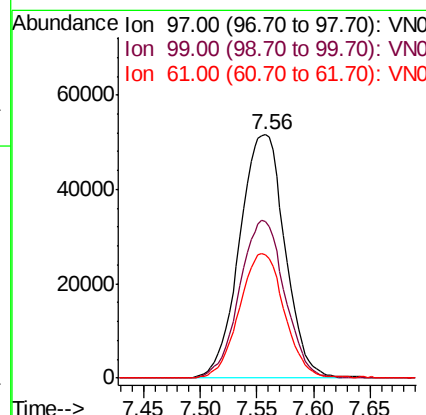
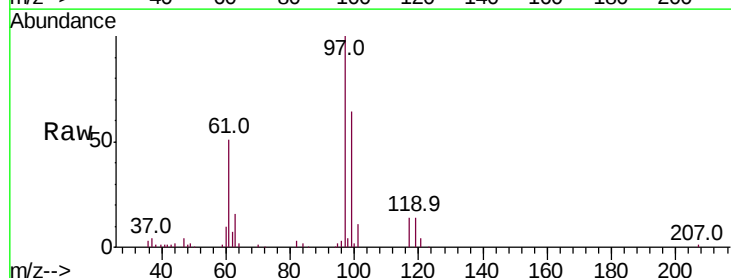
Tgt Ion: 97 Resp: 143879

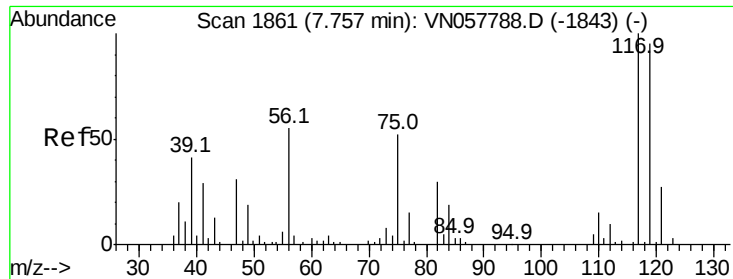
Ion Ratio Lower Upper

97 100

99 64.4 49.8 74.8

61 50.5 38.7 58.1

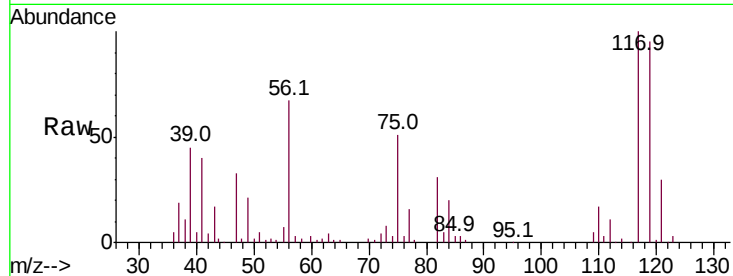




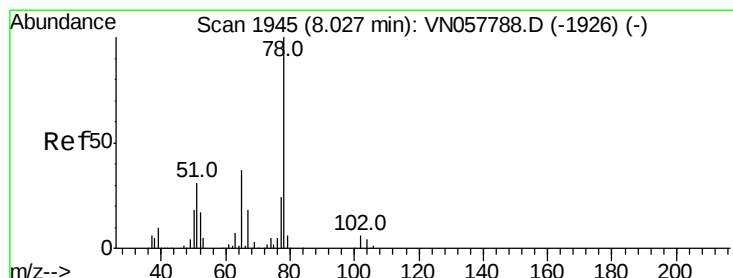
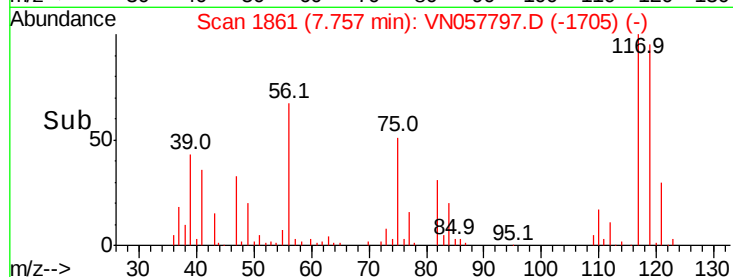
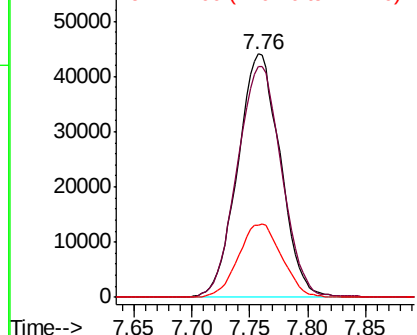
#33  
Carbon Tetrachloride  
Concen: 18.636 ug/l  
RT: 7.76 min Scan# 1861  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:117 Resp: 112410  
Ion Ratio Lower Upper  
117 100  
119 94.6 75.7 113.5  
121 29.7 21.7 32.5

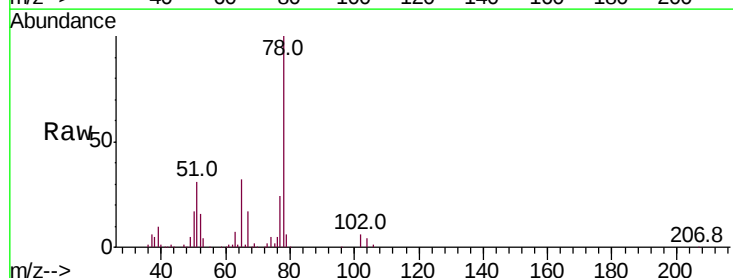


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V

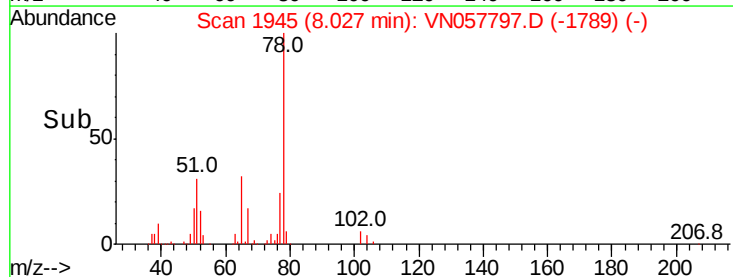
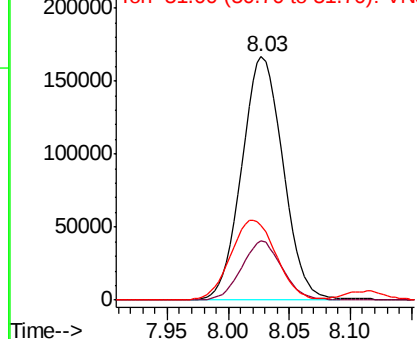


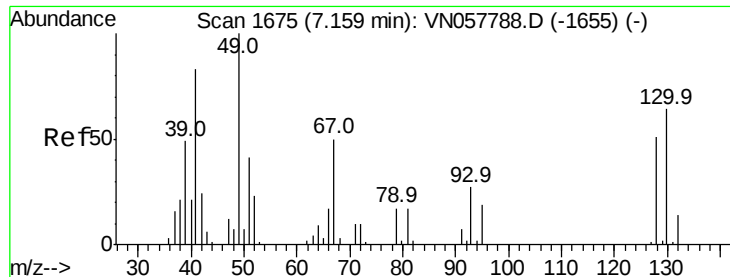
#34  
Benzene  
Concen: 20.091 ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 78 Resp: 391501  
Ion Ratio Lower Upper  
78 100  
77 24.5 19.2 28.8  
51 30.5 24.9 37.3



Abundance Ion 78.10 (77.80 to 78.80): V  
Ion 77.00 (76.70 to 77.70): V  
Ion 51.00 (50.70 to 51.70): V

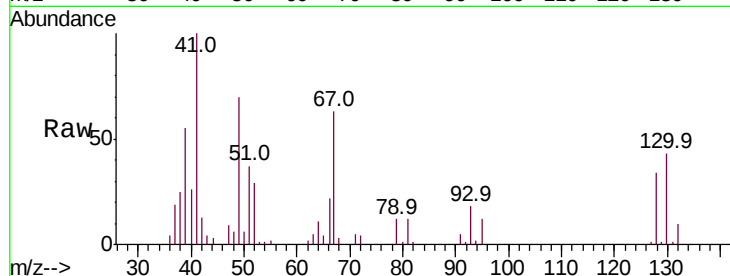




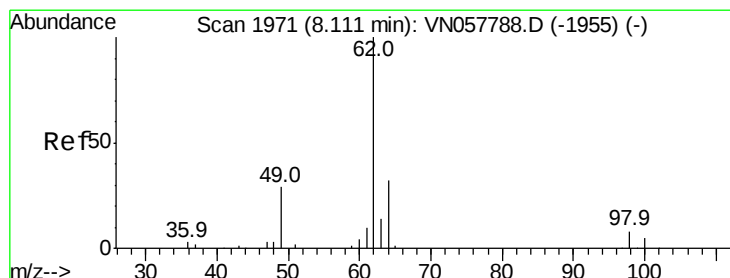
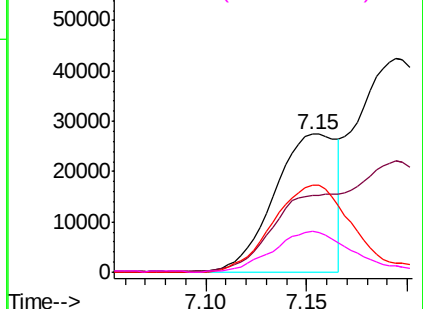
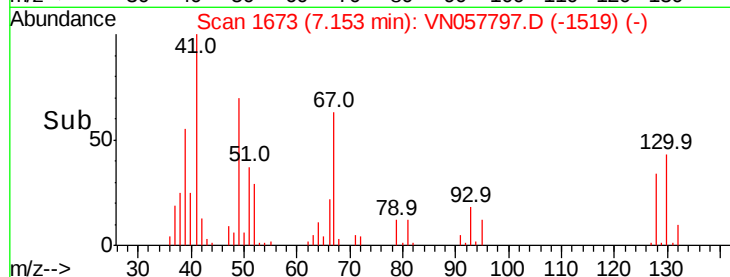
#35  
Methacrylonitrile  
Concen: 21.512 ug/l  
RT: 7.15 min Scan# 1673  
Delta R.T. -0.01 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 41 Resp: 59165  
Ion Ratio Lower Upper  
41 100  
39 54.6 29.8 89.5  
67 63.2 30.0 90.1  
52 29.4 13.9 41.6

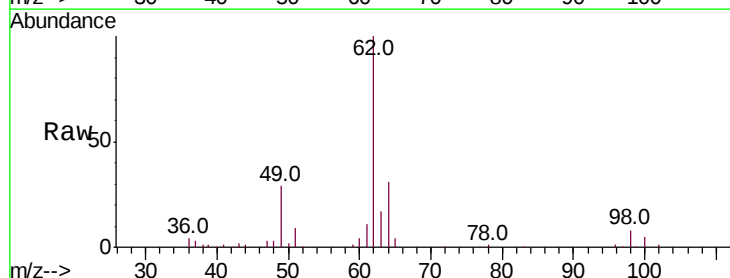


Abundance Ion 41.00 (40.70 to 41.70): VNC  
Ion 39.00 (38.70 to 39.70): VNC  
Ion 67.00 (66.70 to 67.70): VNC  
Ion 52.00 (51.70 to 52.70): VNC

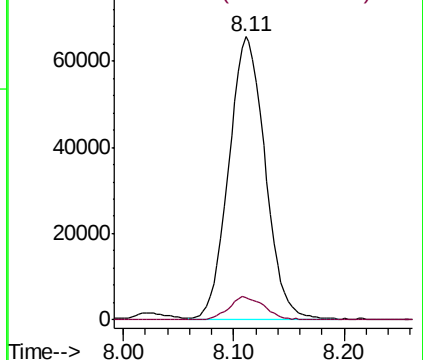
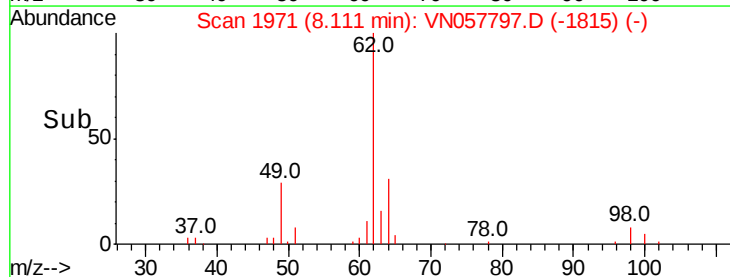


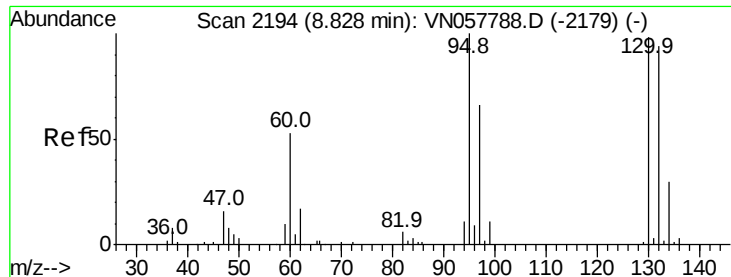
#36  
1,2-Dichloroethane  
Concen: 19.915 ug/l  
RT: 8.11 min Scan# 1971  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 62 Resp: 150595  
Ion Ratio Lower Upper  
62 100  
98 7.9 6.6 9.8



Abundance Ion 62.00 (61.70 to 62.70): VNC  
Ion 98.00 (97.70 to 98.70): VNC

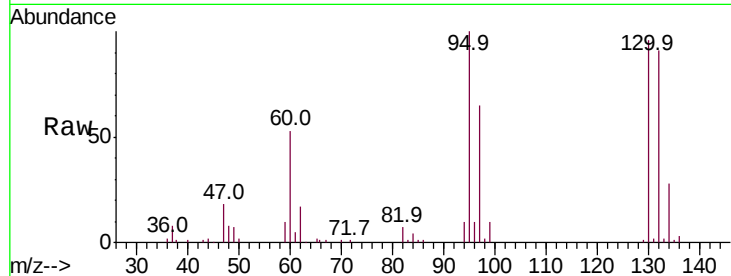




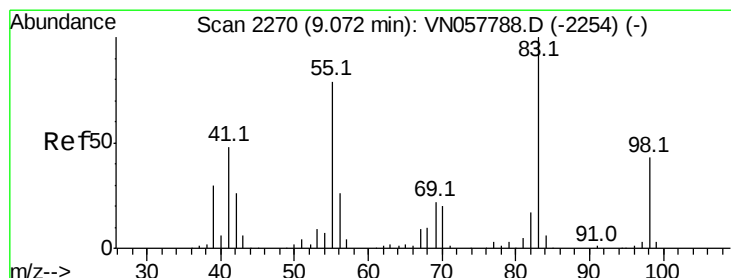
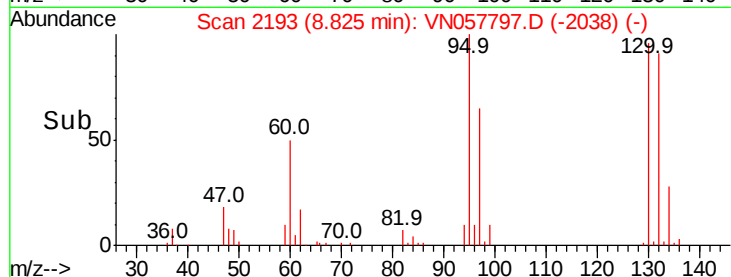
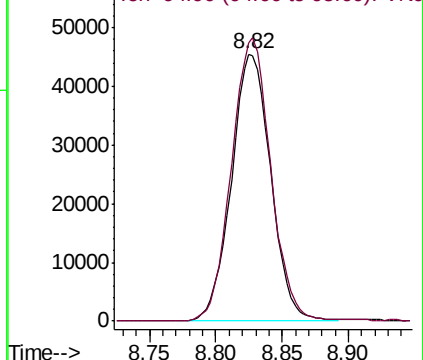
#37  
 Trichloroethene  
 Concen: 19.758 ug/l  
 RT: 8.82 min Scan# 2193  
 Delta R.T. -0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion:130 Resp: 93512  
 Ion Ratio Lower Upper  
 130 100  
 95 104.4 81.9 122.9

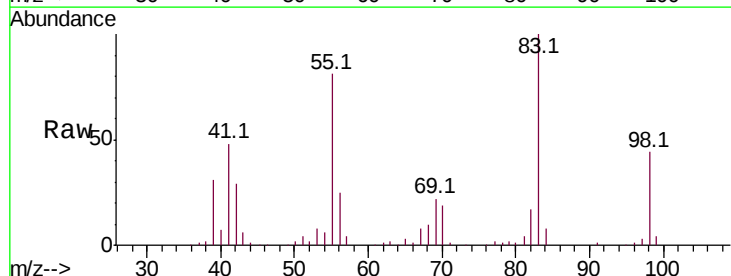


Abundance Ion 129.90 (129.60 to 130.60): VN057788.D (-2179) (-)  
 Ion 94.90 (94.60 to 95.60): VN057788.D (-2179) (-)

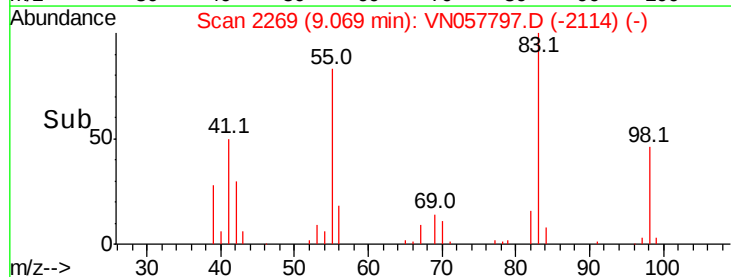
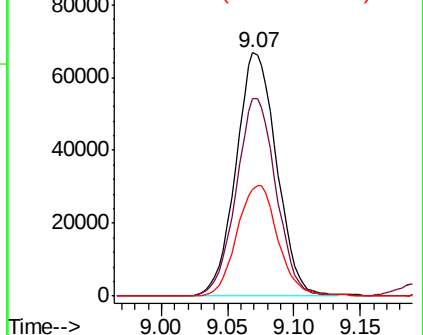


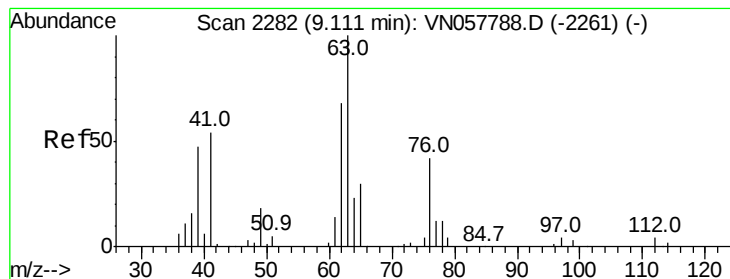
#38  
 Methylcyclohexane  
 Concen: 19.028 ug/l  
 RT: 9.07 min Scan# 2269  
 Delta R.T. -0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

Tgt Ion: 83 Resp: 142492  
 Ion Ratio Lower Upper  
 83 100  
 55 79.9 39.6 118.7  
 98 45.7 21.8 65.4



Abundance Ion 83.00 (82.70 to 83.70): VN057788.D (-2254) (-)  
 Ion 55.00 (54.70 to 55.70): VN057788.D (-2254) (-)  
 Ion 98.00 (97.70 to 98.70): VN057788.D (-2254) (-)





#39

1,2-Dichloropropane

Concen: 19.838 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

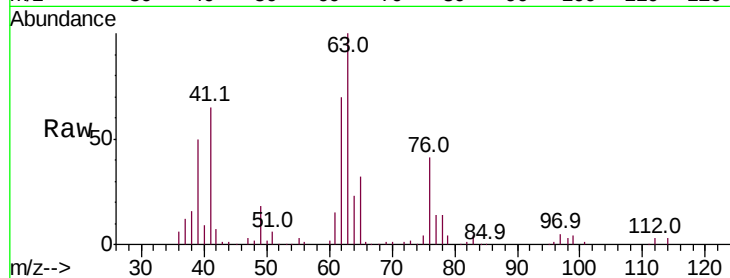
ClientSampled :

Tot Ion: 63 Resp: 108561

Ion Ratio Lower Upper

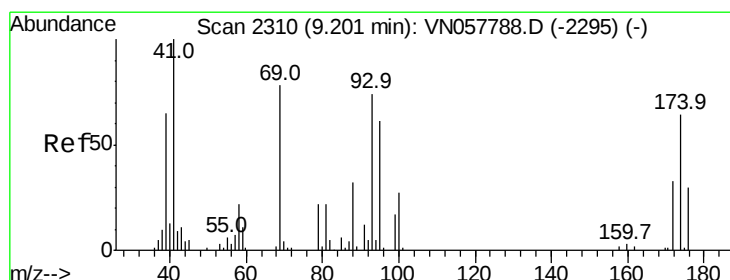
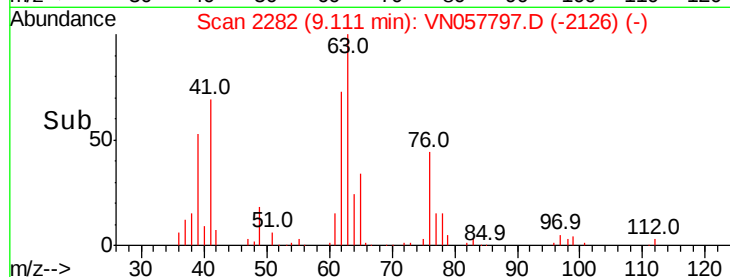
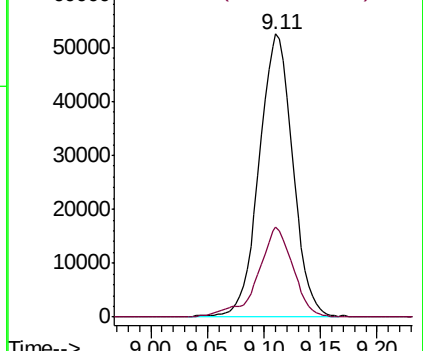
63 100

65 32.0 23.6 35.4



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 19.964 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

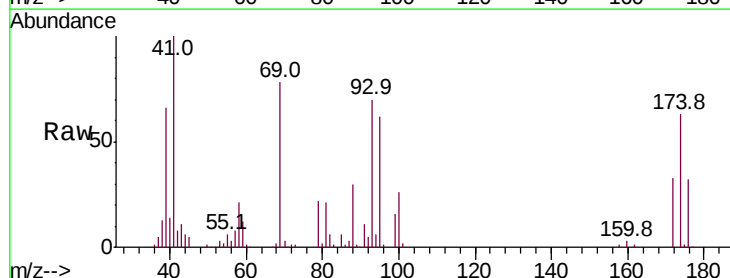
Tgt Ion: 93 Resp: 66448

Ion Ratio Lower Upper

93 100

95 82.8 0.0 163.0

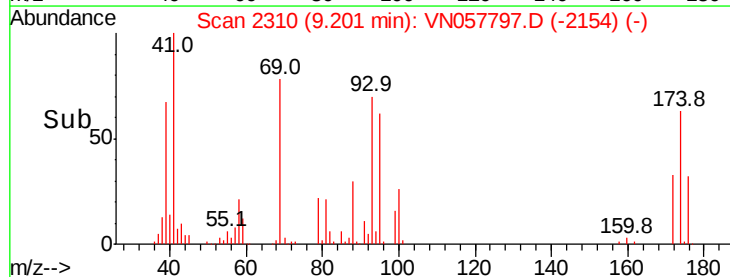
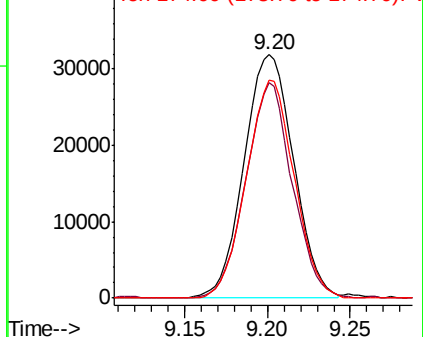
174 86.1 0.0 171.4

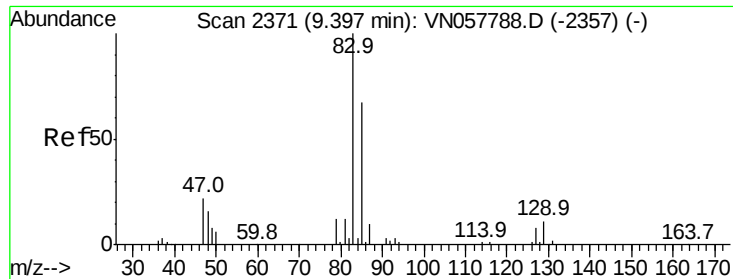


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 19.184 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

ClientSampleId :

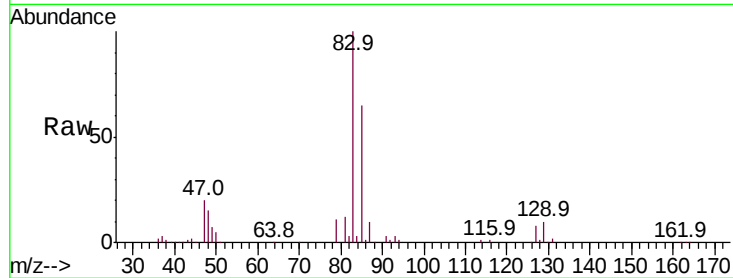
Tot Ion: 83 Resp: 128732

Ion Ratio Lower Upper

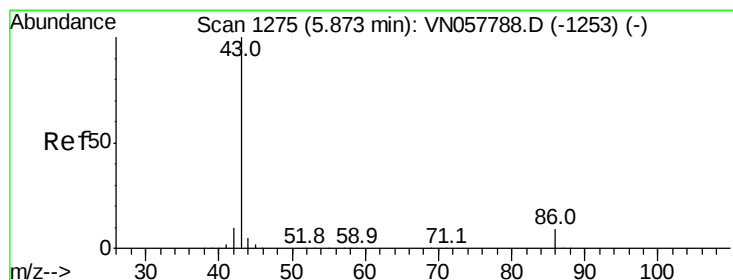
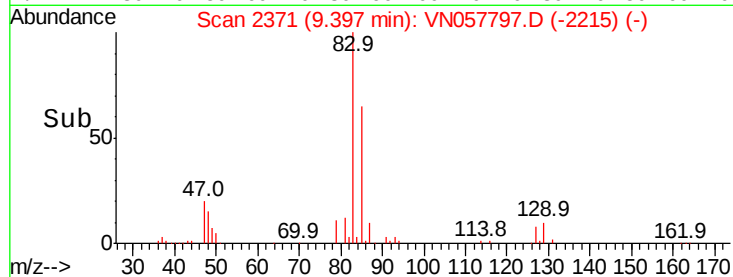
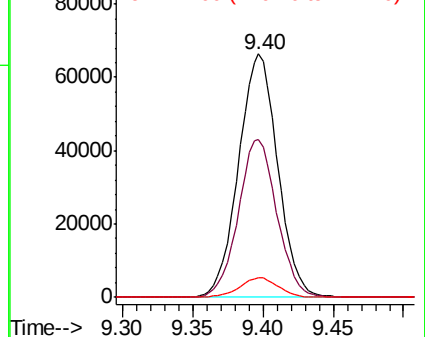
83 100

85 64.8 53.4 80.0

127 8.2 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VNO  
Ion 85.00 (84.70 to 85.70): VNO  
Ion 127.00 (126.70 to 127.70): VNO



#42

Vinyl Acetate

Concen: 106.387 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN057797.D

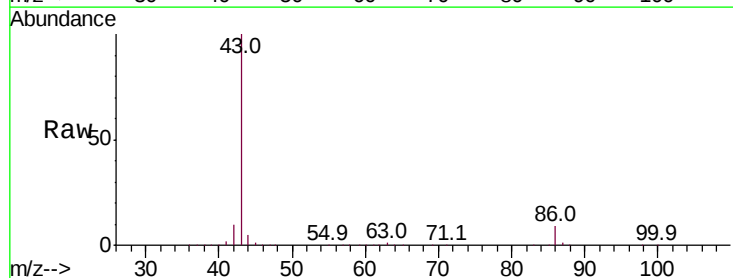
Acq: 9 Sep 2019 13:14

Tgt Ion: 43 Resp: 1267903

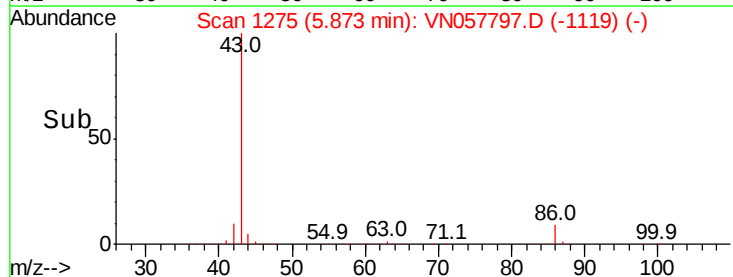
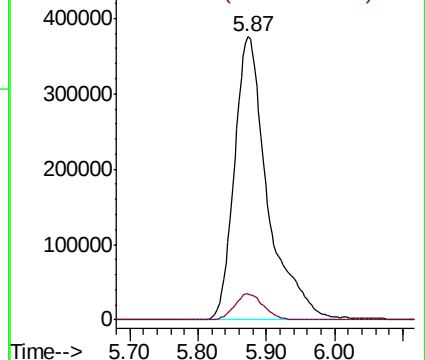
Ion Ratio Lower Upper

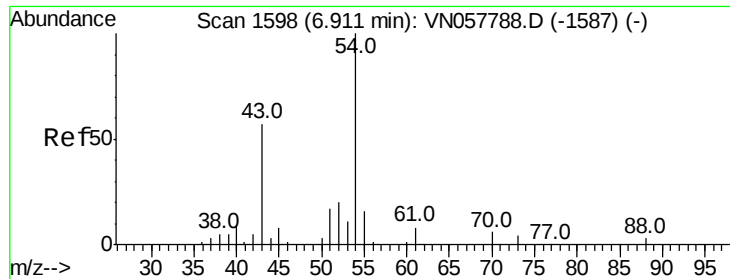
43 100

86 8.2 6.3 9.5



Abundance Ion 43.00 (42.70 to 43.70): VNO  
Ion 86.00 (85.70 to 86.70): VNO

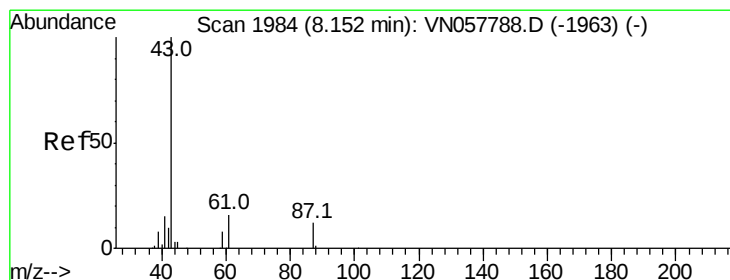
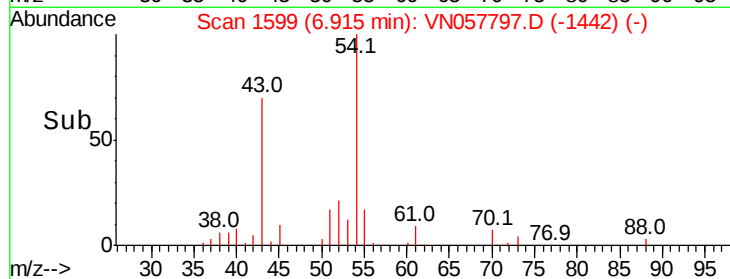
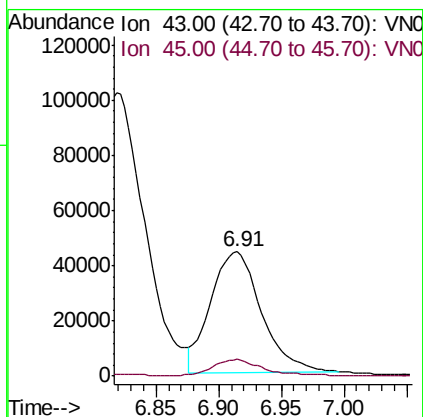
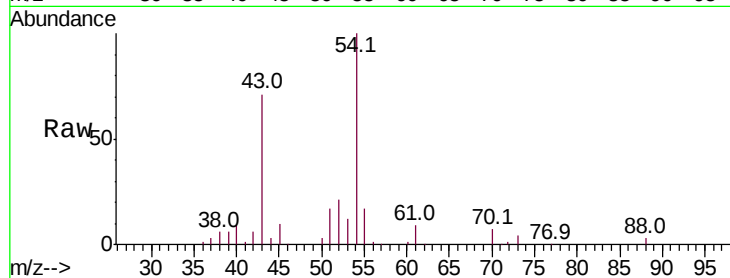




#43  
Ethyl Acetate  
Concen: 20.359 ug/l  
RT: 6.91 min Scan# 1599  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

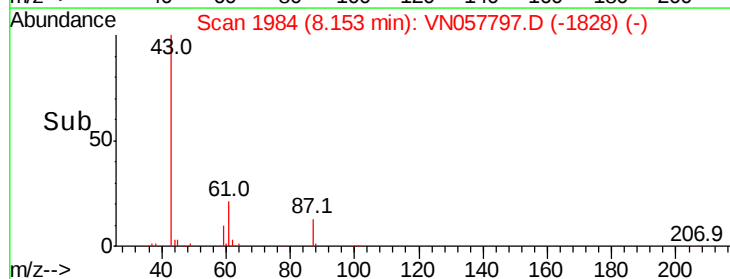
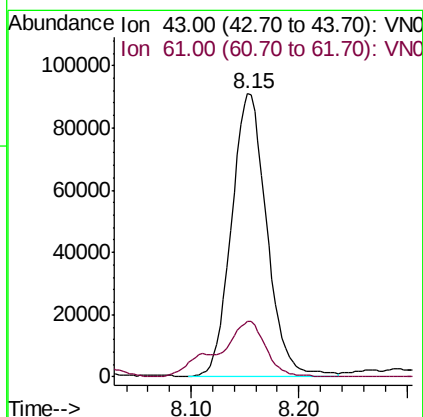
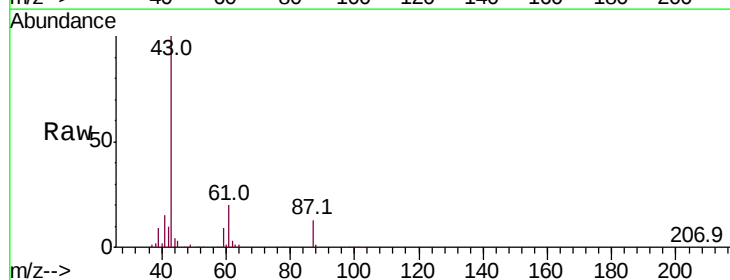
Instrument :  
MSVOA\_N  
ClientSampled :

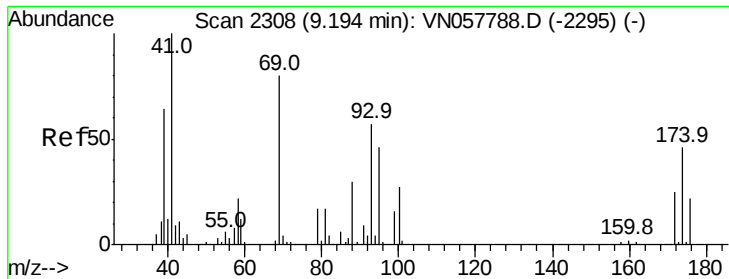
Tot Ion: 43 Resp: 123171  
Ion Ratio Lower Upper  
43 100  
45 14.2 5.4 8.0#



#44  
Isopropyl Acetate  
Concen: 19.586 ug/l  
RT: 8.15 min Scan# 1984  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 43 Resp: 206605  
Ion Ratio Lower Upper  
43 100  
61 18.4 0.1 0.1#

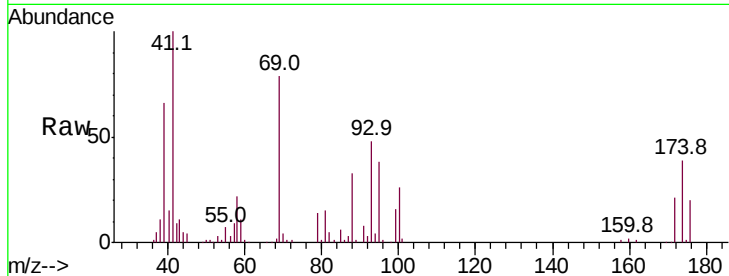




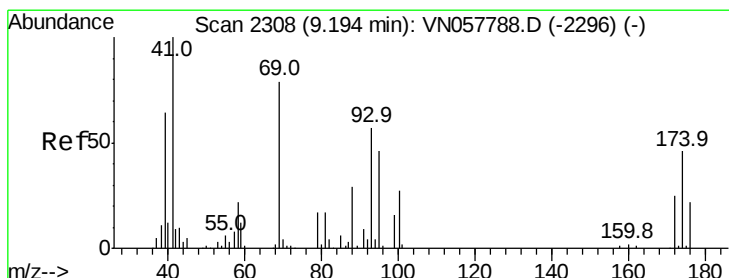
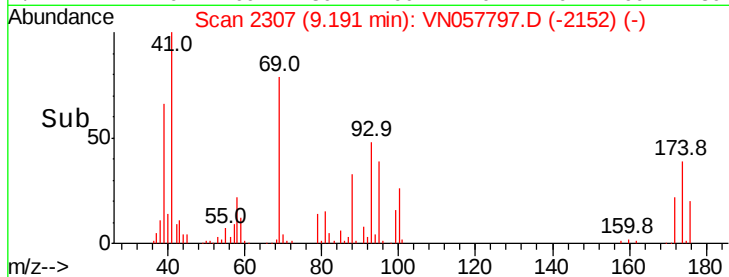
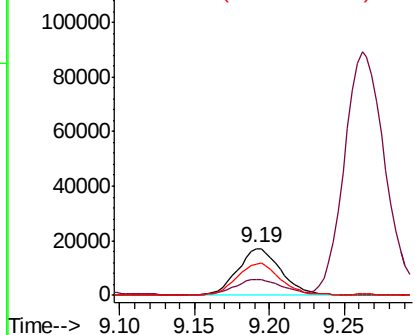
#45  
 1,4-Dioxane  
 Concen: 416.536 ug/l  
 RT: 9.19 min Scan# 2307  
 Delta R.T. -0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion: 88 Resp: 34526  
 Ion Ratio Lower Upper  
 88 100  
 43 35.4 28.2 42.4  
 58 69.9 58.5 87.7

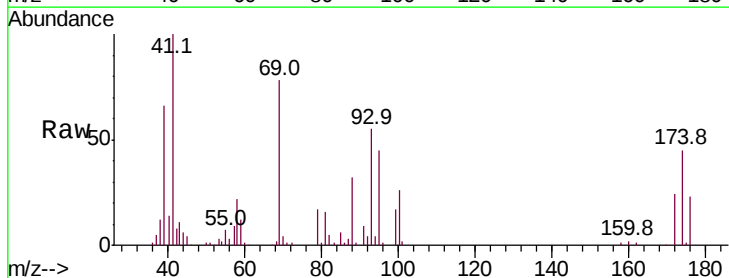


Abundance Ion 88.00 (87.70 to 88.70): VN0  
 Ion 43.00 (42.70 to 43.70): VN0  
 Ion 58.00 (57.70 to 58.70): VN0

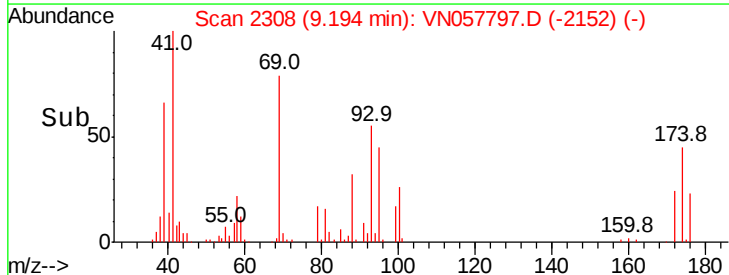
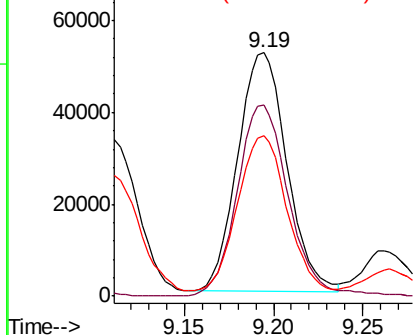


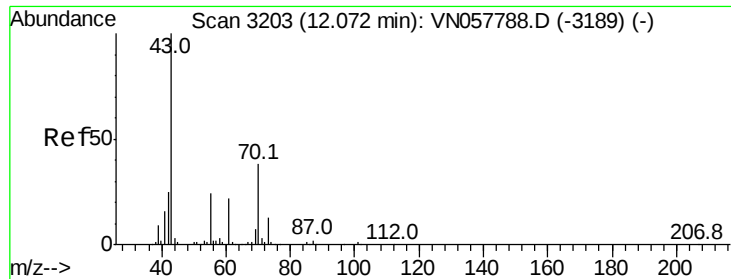
#46  
 Methyl methacrylate  
 Concen: 19.461 ug/l  
 RT: 9.19 min Scan# 2308  
 Delta R.T. 0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

Tgt Ion: 41 Resp: 100279  
 Ion Ratio Lower Upper  
 41 100  
 69 79.5 39.6 119.0  
 39 65.1 31.9 95.7



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

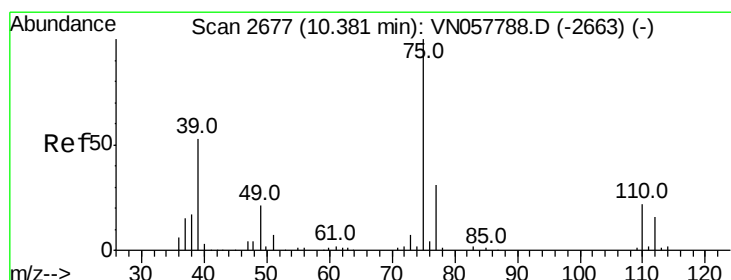
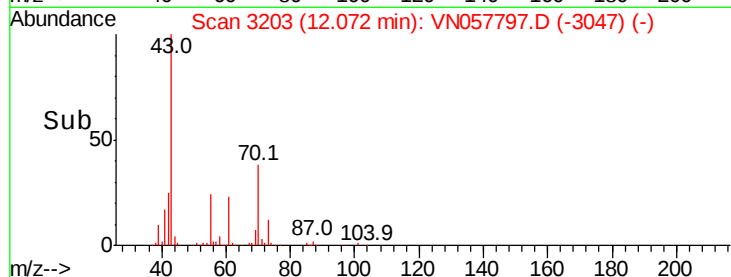
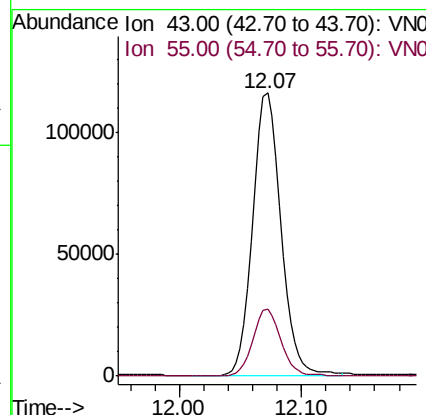
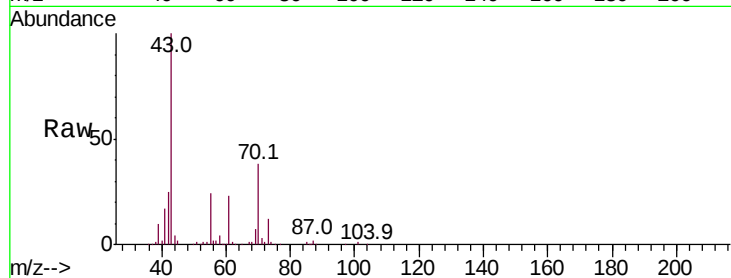




#47  
n-amvl Acetate  
Concen: 19.184 ug/l  
RT: 12.07 min Scan# 3203  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

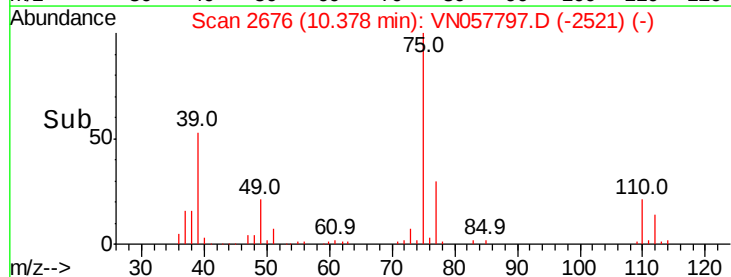
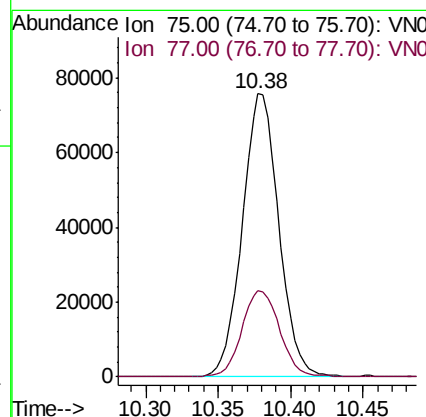
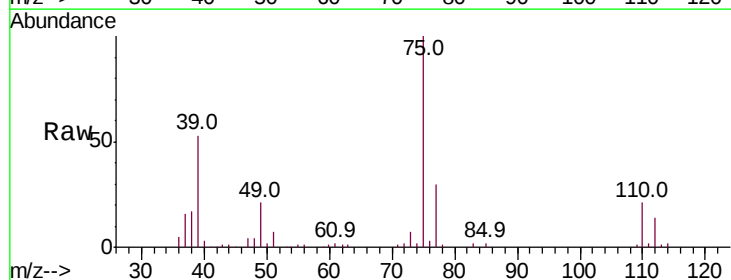
Instrument :  
MSVOA\_N  
ClientSampled :

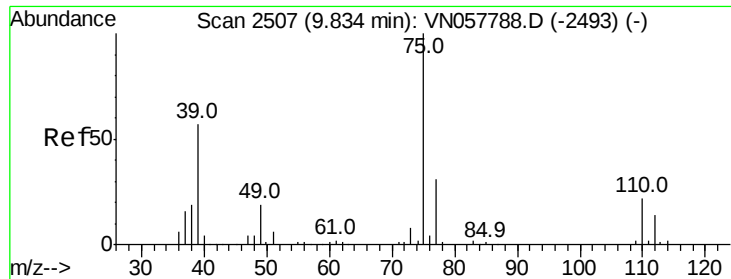
Tot Ion: 43 Resp: 185894  
Ion Ratio Lower Upper  
43 100  
55 23.4 18.3 27.5



#48  
t-1,3-Dichloropropene  
Concen: 18.573 ug/l  
RT: 10.38 min Scan# 2676  
Delta R.T. -0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 75 Resp: 132682  
Ion Ratio Lower Upper  
75 100  
77 29.9 24.9 37.3



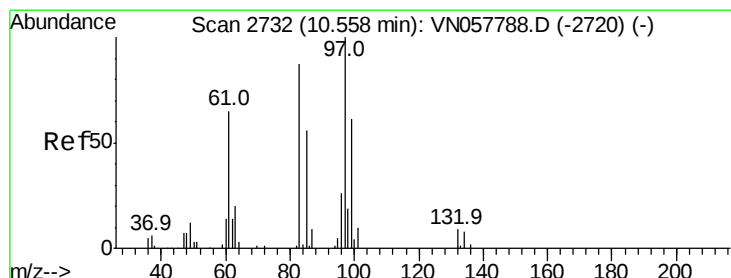
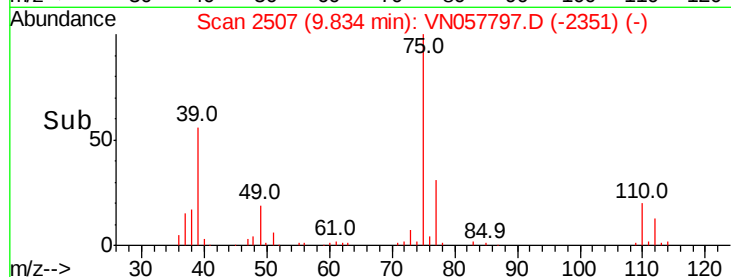
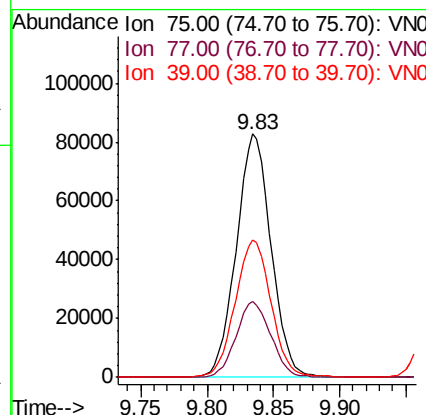
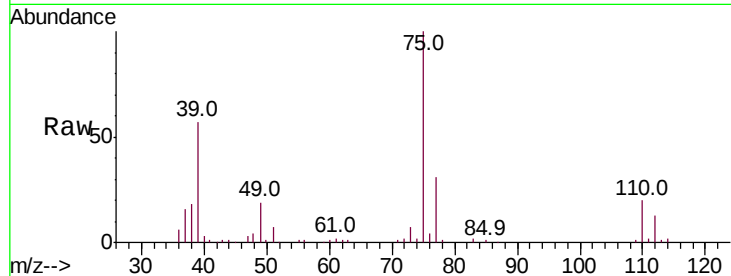


#49

cis-1,3-Dichloropropene  
 Concen: 18.813 ug/l  
 RT: 9.83 min Scan# 2507  
 Delta R.T. 0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

Instrument :  
 MSVOA\_N  
 ClientSampled :

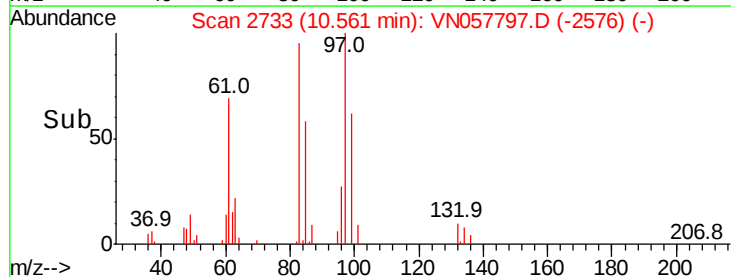
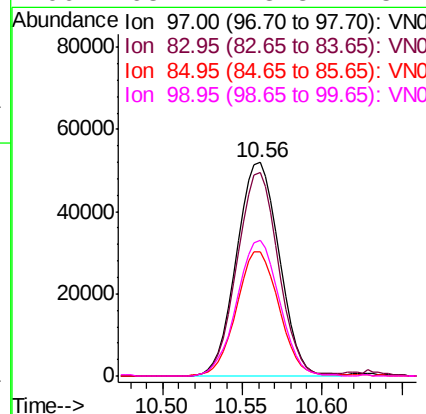
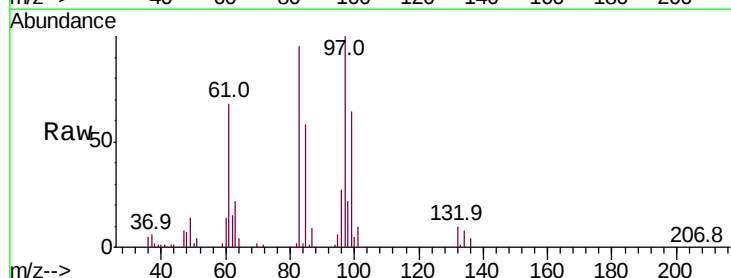
Tot Ion: 75 Resp: 150792  
 Ion Ratio Lower Upper  
 75 100  
 77 31.1 24.6 36.8  
 39 56.2 45.8 68.8

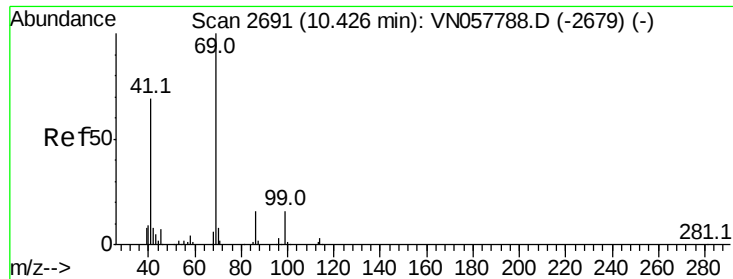


#50

1,1,2-Trichloroethane  
 Concen: 19.652 ug/l  
 RT: 10.56 min Scan# 2733  
 Delta R.T. 0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

Tgt Ion: 97 Resp: 94879  
 Ion Ratio Lower Upper  
 97 100  
 83 95.2 69.4 104.2  
 85 57.7 45.0 67.6  
 99 63.7 48.8 73.2





#51

Ethyl methacrylate

Concen: 19.834 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

ClientSampled :

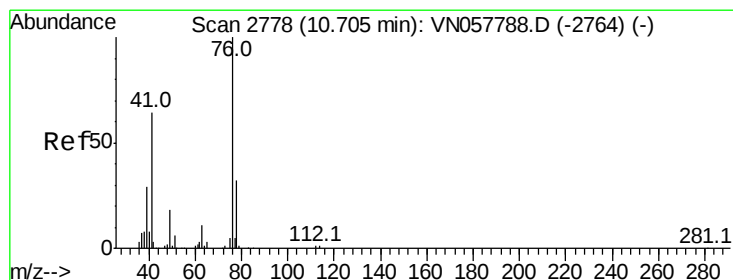
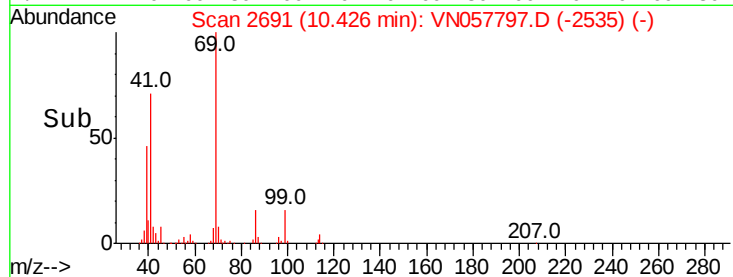
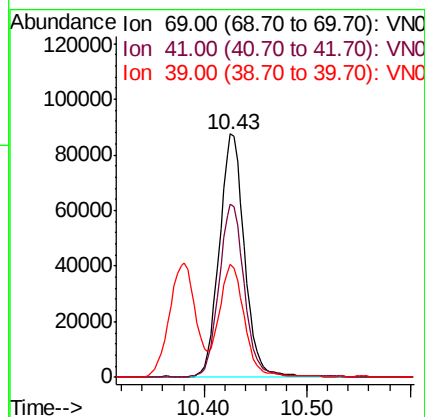
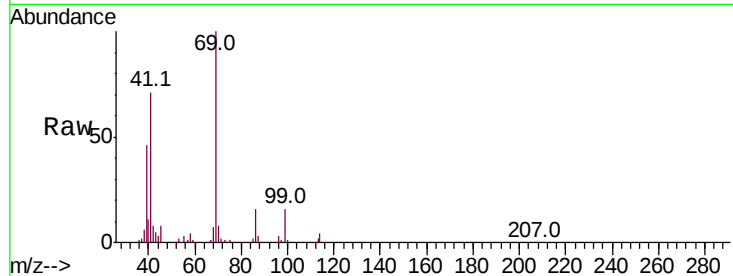
Tot Ion: 69 Resp: 148476

Ion Ratio Lower Upper

69 100

41 70.8 34.5 103.5

39 45.7 22.4 67.3



#52

1,3-Dichloropropane

Concen: 19.997 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN057797.D

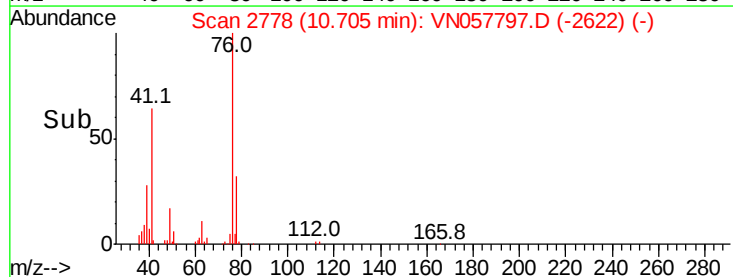
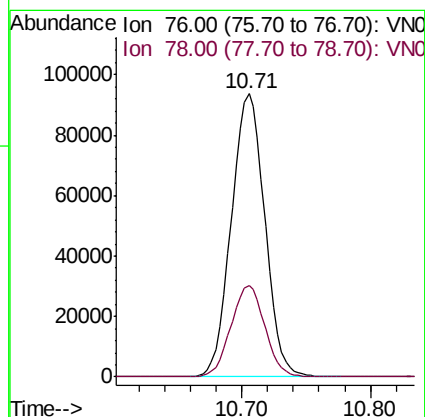
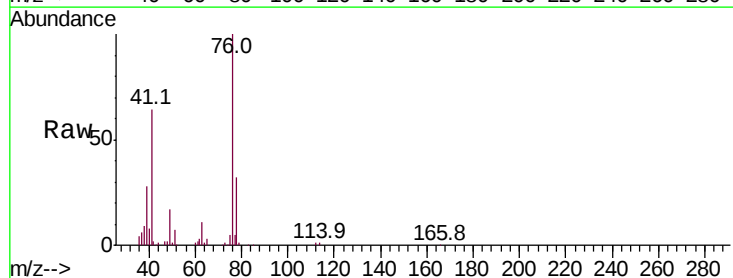
Acq: 9 Sep 2019 13:14

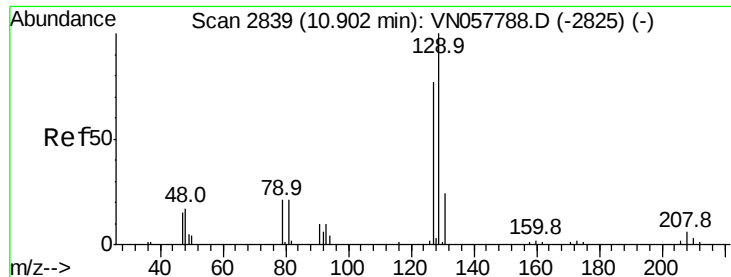
Tgt Ion: 76 Resp: 168834

Ion Ratio Lower Upper

76 100

78 32.8 0.0 63.8





#53

Dibromochloromethane

Concen: 17.994 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

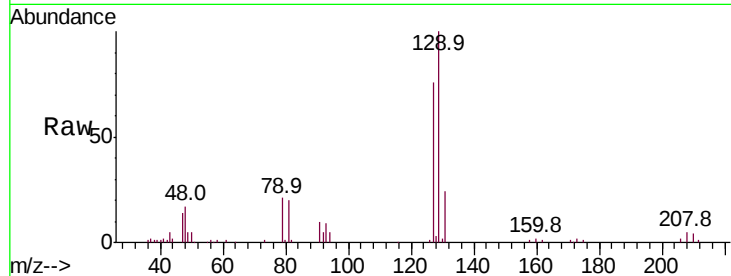
ClientSampled :

Tot Ion:129 Resp: 85795

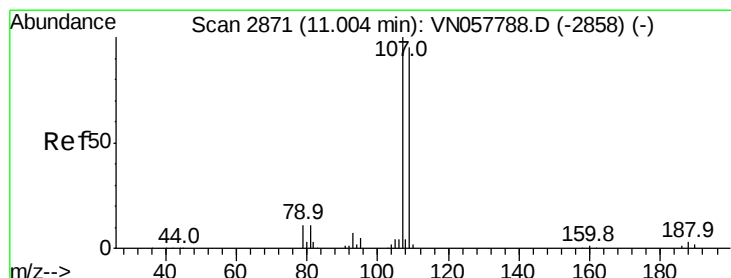
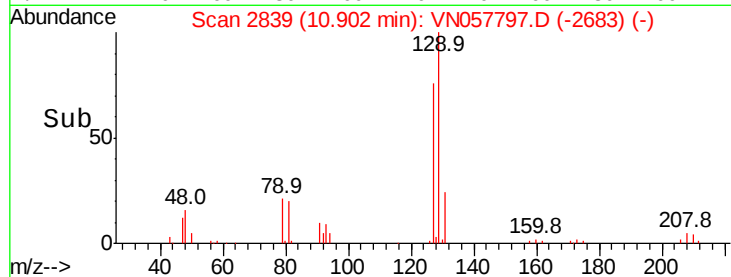
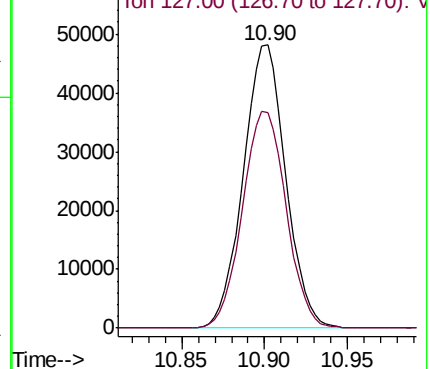
Ion Ratio Lower Upper

129 100

127 78.9 38.8 116.3



Abundance Ion 129.00 (128.70 to 129.70): V



#54

1,2-Dibromoethane

Concen: 19.306 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN057797.D

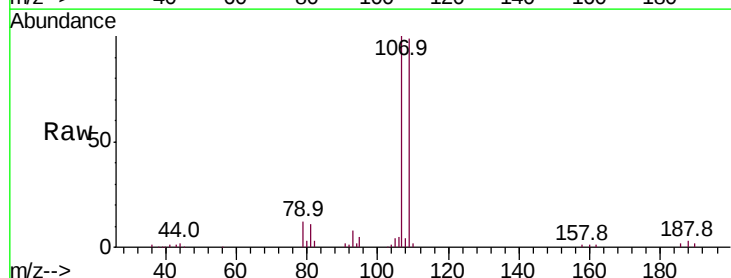
Acq: 9 Sep 2019 13:14

Tgt Ion:107 Resp: 92739

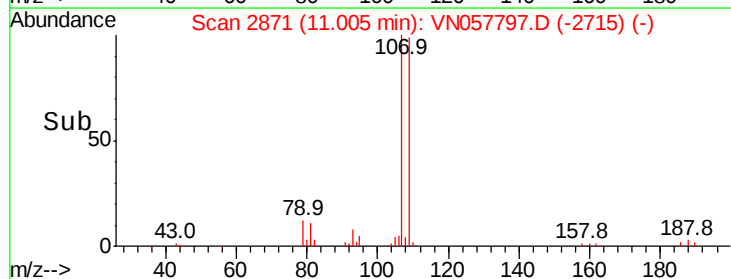
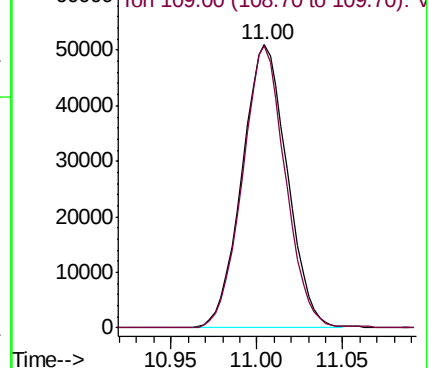
Ion Ratio Lower Upper

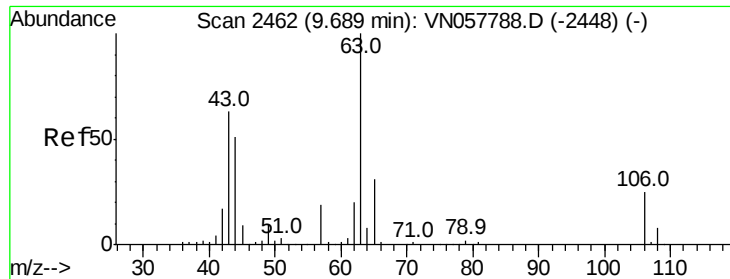
107 100

109 94.8 75.4 113.0



Abundance Ion 107.00 (106.70 to 107.70): V

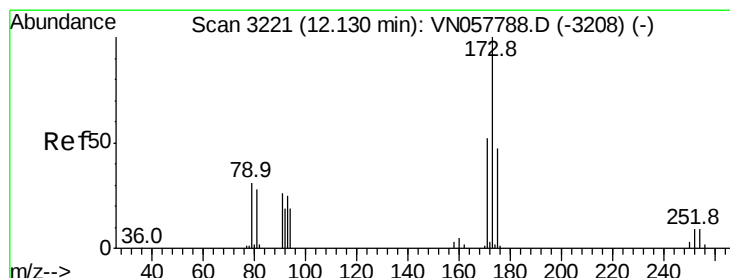
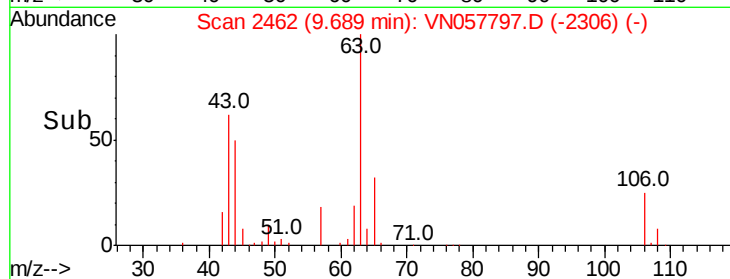
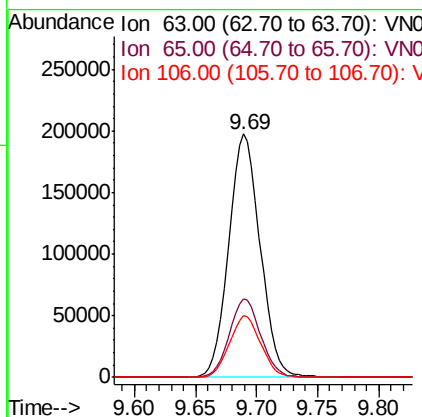
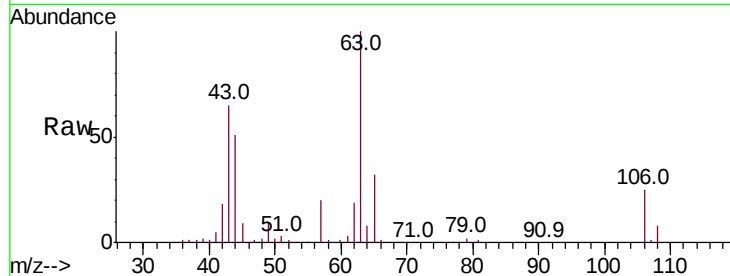




#55  
2-Chloroethyl vinyl ether  
Concen: 99.764 ug/l  
RT: 9.69 min Scan# 2462  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

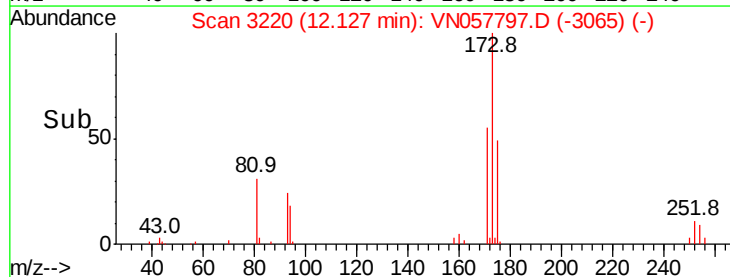
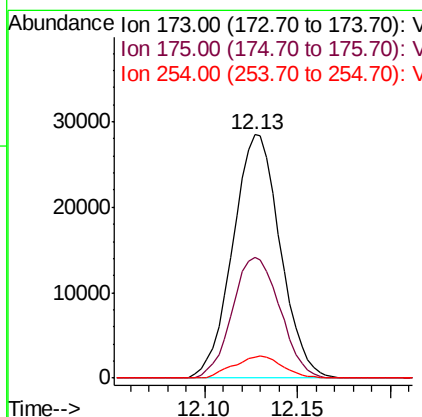
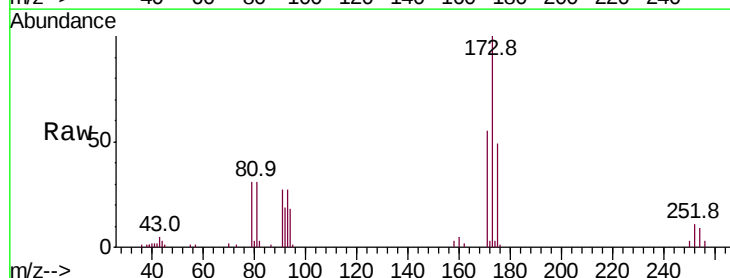
Instrument :  
MSVOA\_N  
ClientSampled :

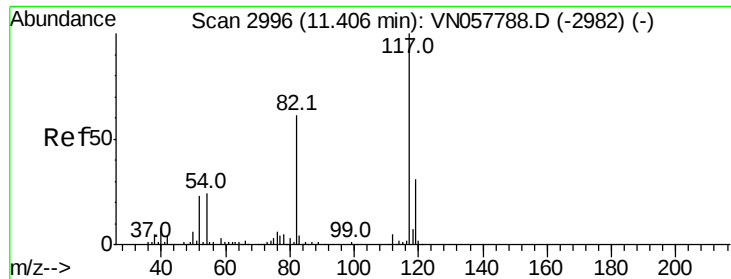
Tot Ion: 63 Resp: 354874  
Ion Ratio Lower Upper  
63 100  
65 32.1 25.0 37.6  
106 25.2 19.8 29.8



#56  
Bromoform  
Concen: 17.157 ug/l  
RT: 12.13 min Scan# 3220  
Delta R.T. -0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 173 Resp: 50678  
Ion Ratio Lower Upper  
173 100  
175 49.8 38.4 57.6  
254 9.3 6.9 10.3

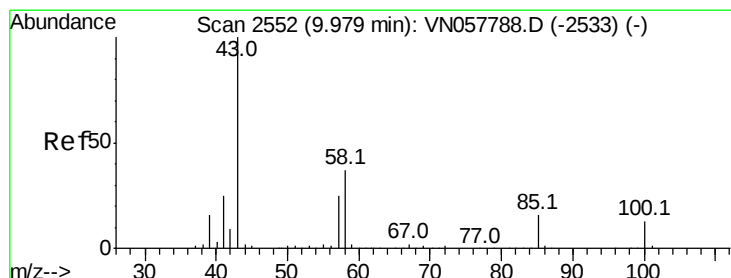
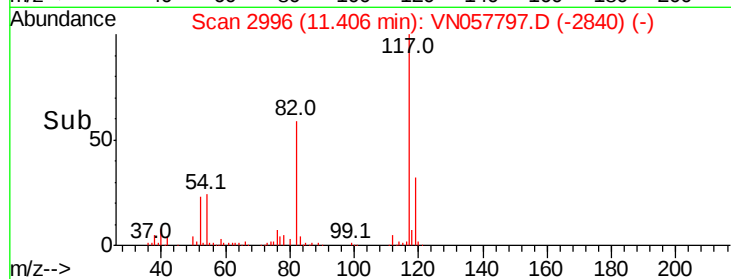
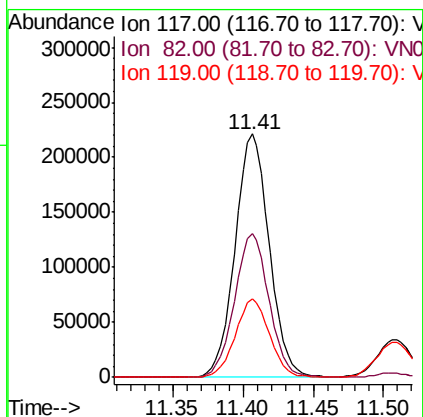
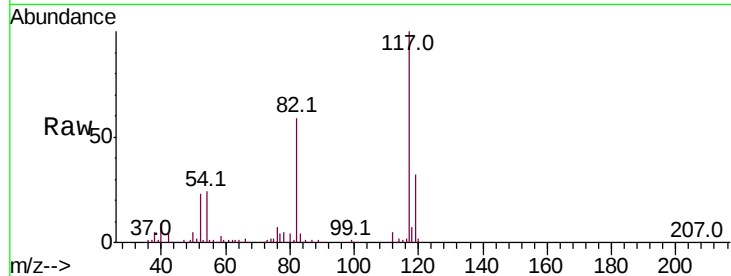




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

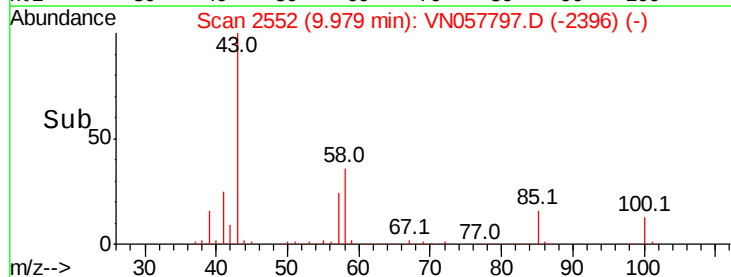
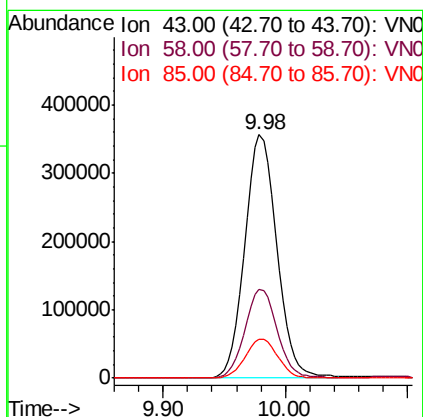
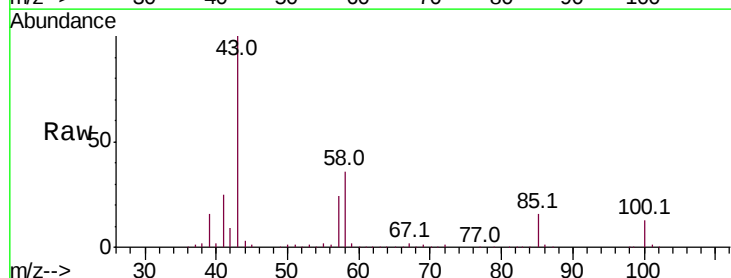
Instrument :  
MSVOA\_N  
ClientSampled :

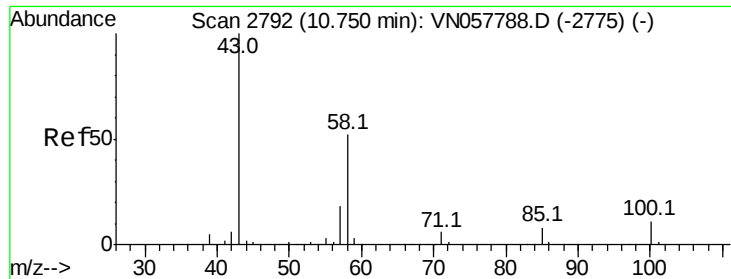
Tot Ion:117 Resp: 376146  
Ion Ratio Lower Upper  
117 100  
82 59.4 47.6 71.4  
119 32.2 25.4 38.2



#58  
4-Methyl-2-Pentanone  
Concen: 110.282 ug/l  
RT: 9.98 min Scan# 2552  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 43 Resp: 643294  
Ion Ratio Lower Upper  
43 100  
58 36.9 29.4 44.0  
85 16.3 12.9 19.3

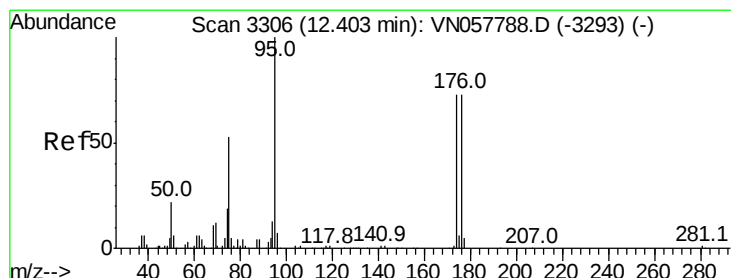
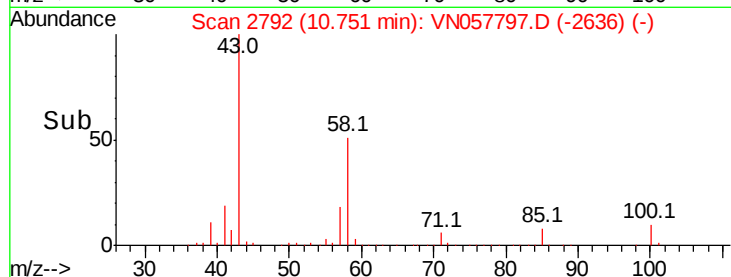
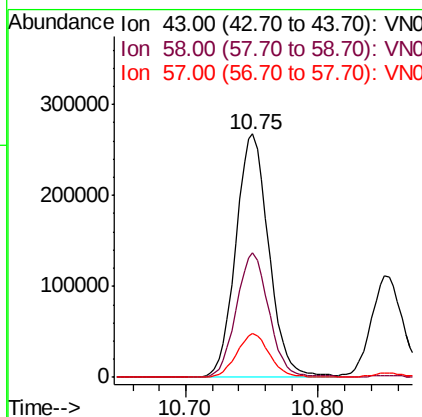
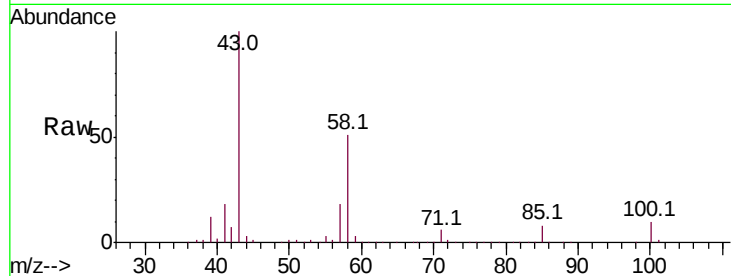




#59  
2-Hexanone  
Concen: 105.717 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

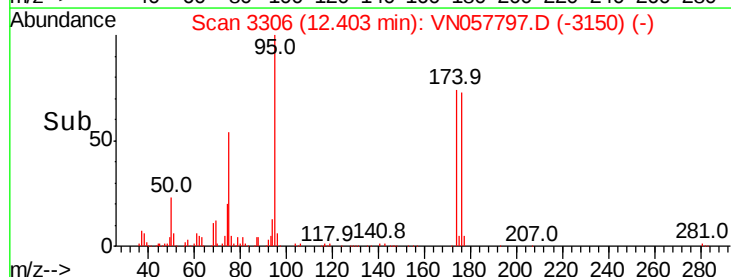
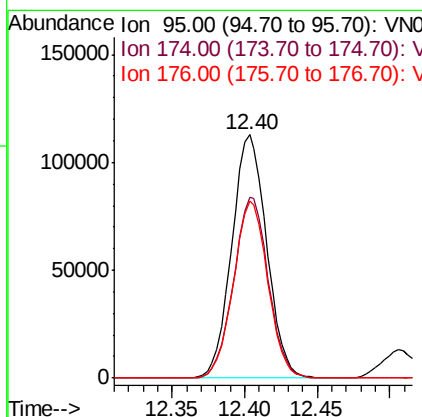
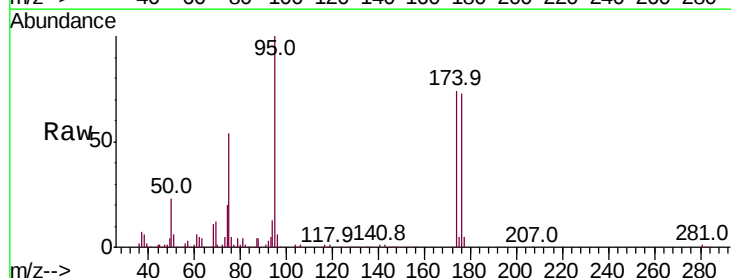
Instrument :  
MSVOA\_N  
ClientSampled :

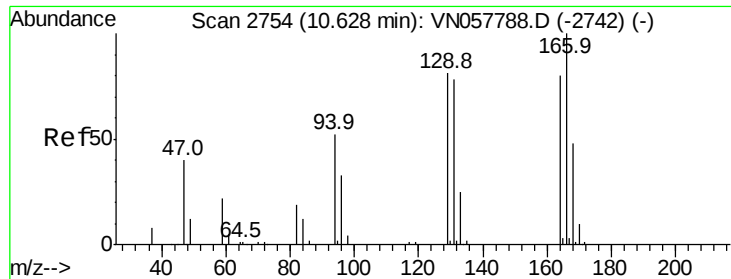
Tot Ion: 43 Resp: 462762  
Ion Ratio Lower Upper  
43 100  
58 50.8 40.6 61.0  
57 17.9 14.5 21.7



#60  
4-Bromofluorobenzene  
Concen: 29.245 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 95 Resp: 188237  
Ion Ratio Lower Upper  
95 100  
174 74.0 59.4 89.0  
176 71.6 57.4 86.0





#61

Tetrachloroethene

Concen: 20.228 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

ClientSampled :

Tot Ion:164 Resp: 77359

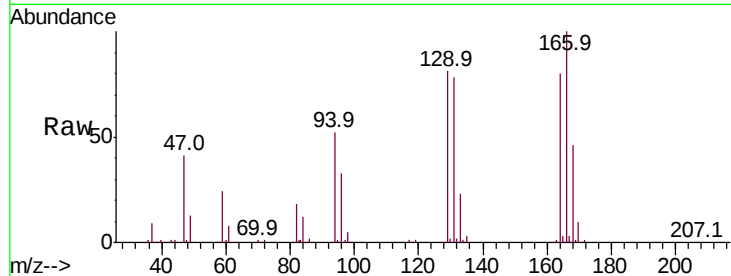
Ion Ratio Lower Upper

164 100

166 124.4 99.6 149.4

129 100.5 80.9 121.3

131 96.7 77.2 115.8

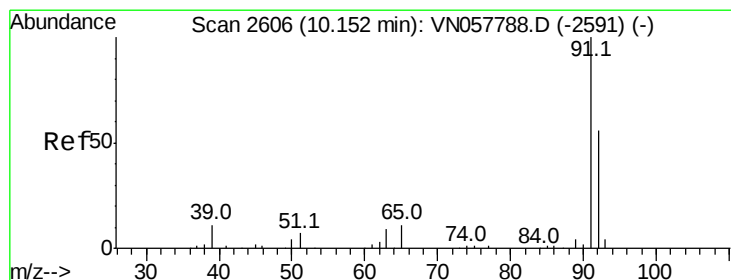
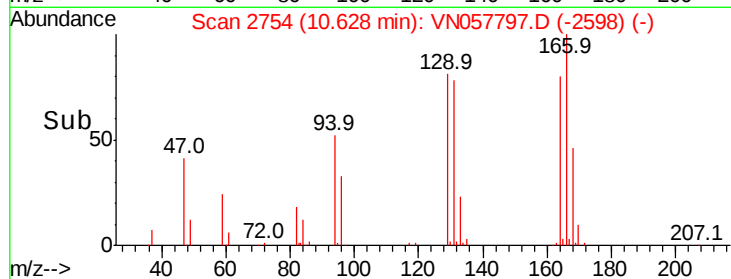
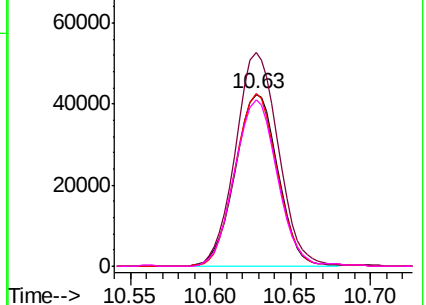


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 20.498 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN057797.D

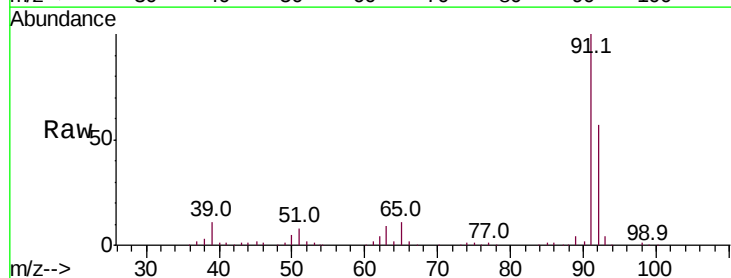
Acq: 9 Sep 2019 13:14

Tgt Ion: 91 Resp: 426932

Ion Ratio Lower Upper

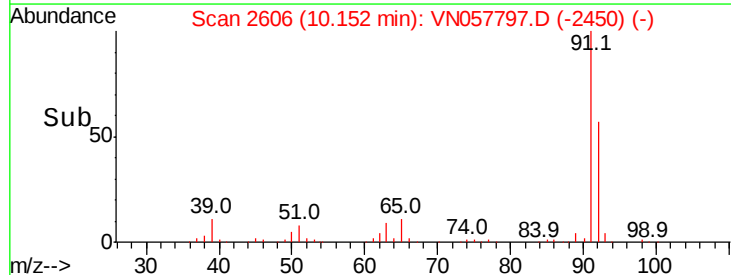
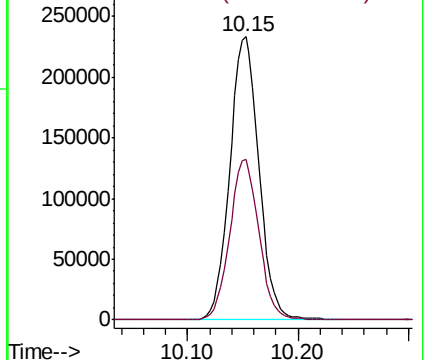
91 100

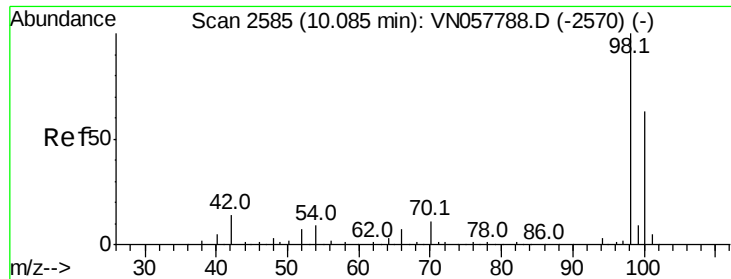
92 56.7 44.9 67.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.208 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

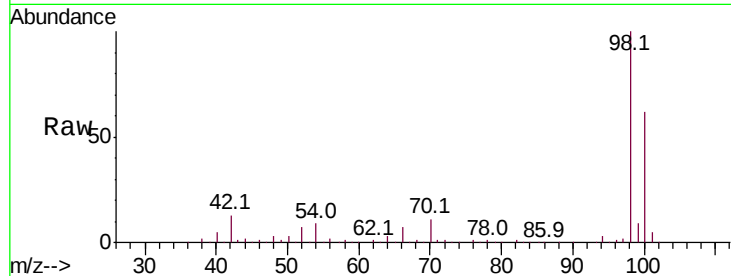
ClientSampleId :

Tot Ion: 98 Resp: 545386

Ion Ratio Lower Upper

98 100

100 62.6 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057788.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN057788.D (-2570) (-)

10.08

300000

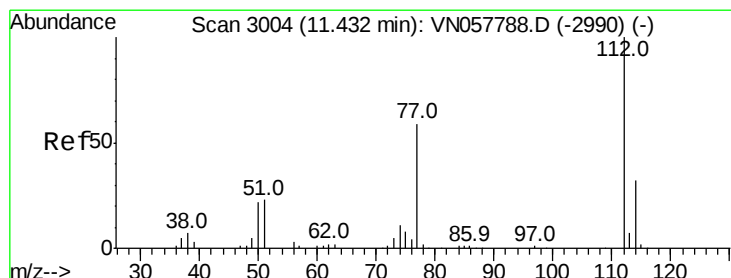
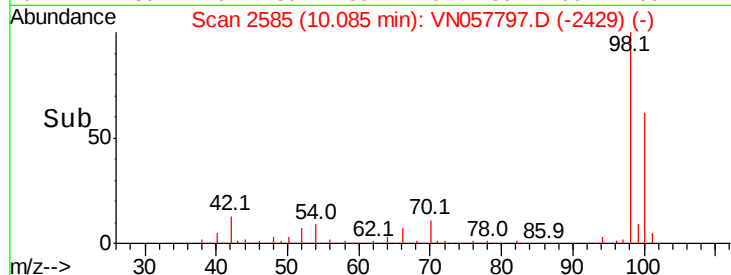
200000

100000

0

Time-->

10.00 10.10 10.20



#64

Chlorobenzene

Concen: 20.219 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN057797.D

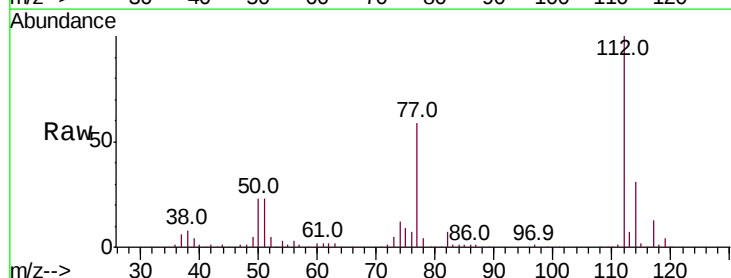
Acq: 9 Sep 2019 13:14

Tgt Ion: 112 Resp: 261231

Ion Ratio Lower Upper

112 100

114 31.3 25.4 38.0



Abundance Ion 112.00 (111.70 to 112.70): VN057788.D (-2990) (-)

Ion 114.00 (113.70 to 114.70): VN057788.D (-2990) (-)

11.43

150000

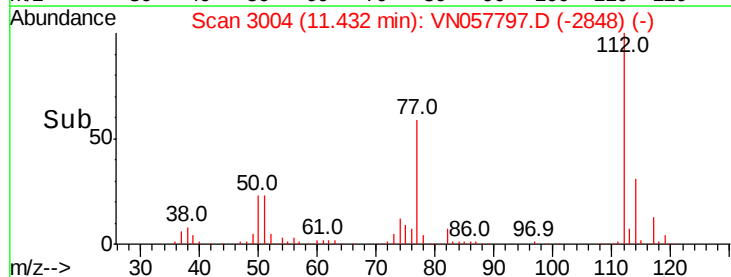
100000

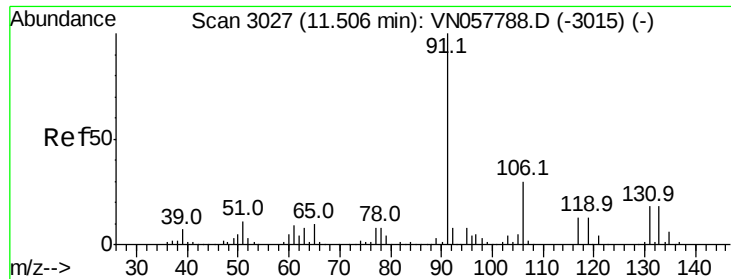
50000

0

Time-->

11.35 11.40 11.45 11.50





#65

1,1,1,2-Tetrachloroethane

Concen: 19.776 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

ClientSampleId :

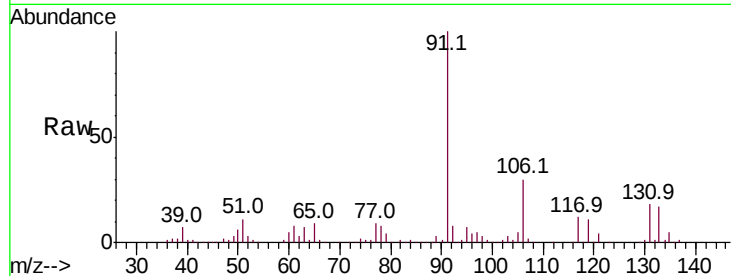
Tot Ion:131 Resp: 88717

Ion Ratio Lower Upper

131 100

133 91.9 0.0 189.2

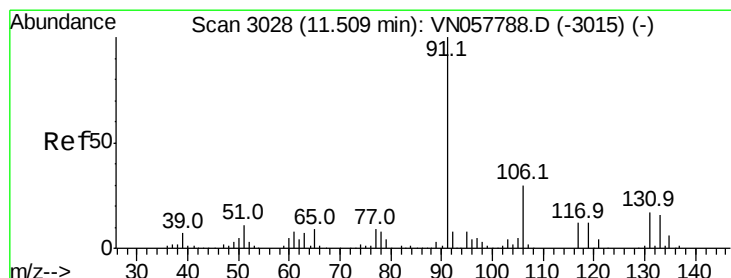
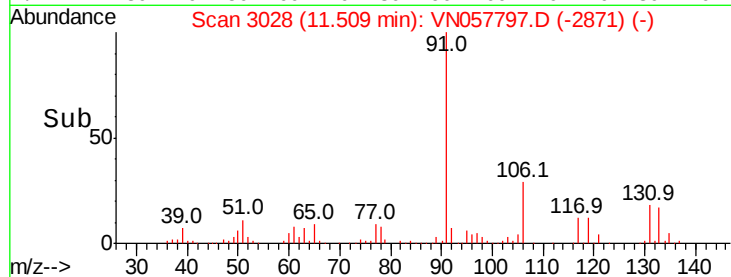
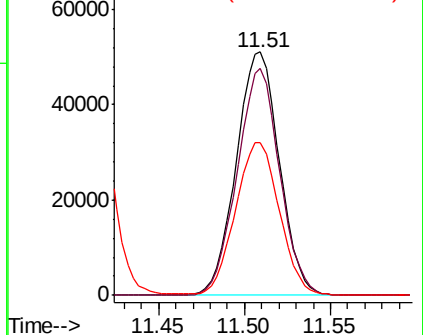
119 64.2 0.0 136.4



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 20.648 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057797.D

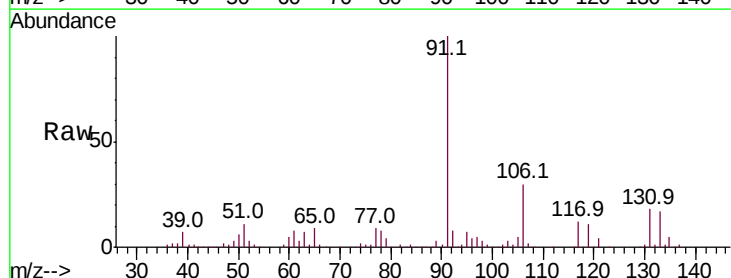
Acq: 9 Sep 2019 13:14

Tgt Ion: 91 Resp: 469346

Ion Ratio Lower Upper

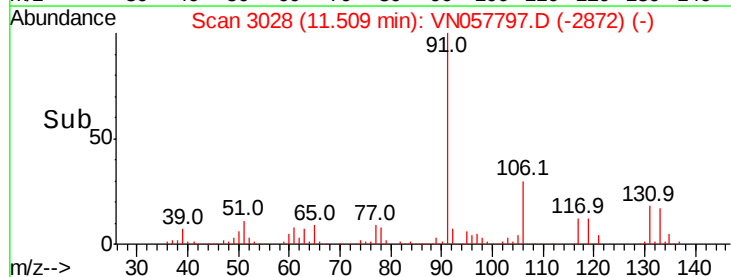
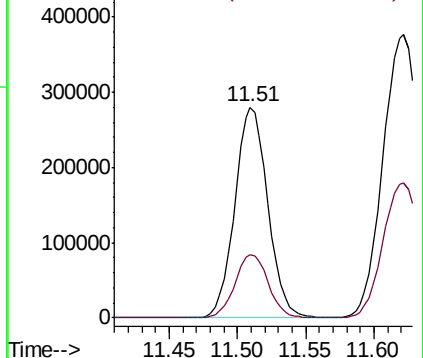
91 100

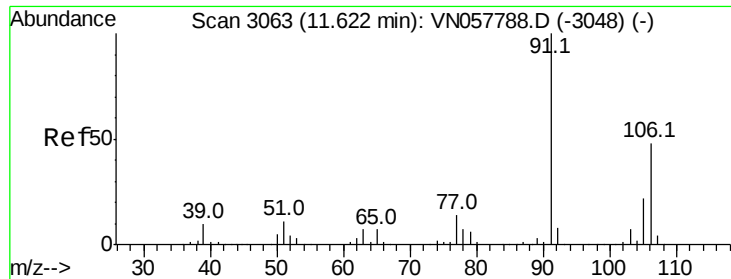
106 30.2 24.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

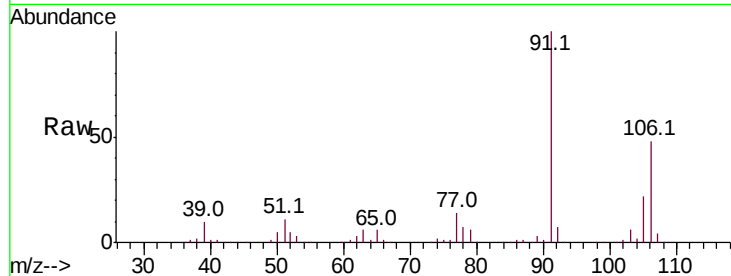




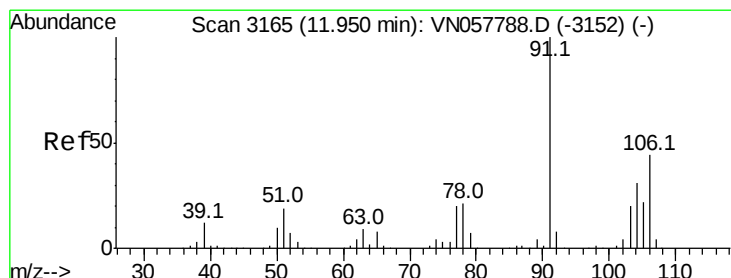
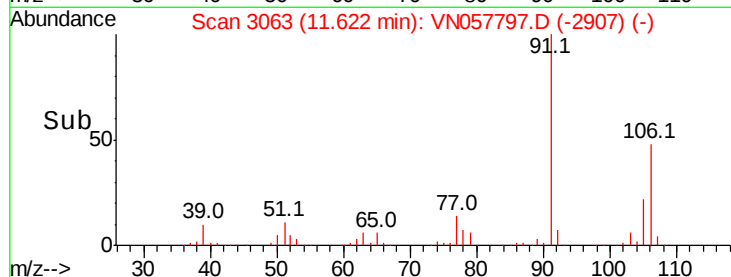
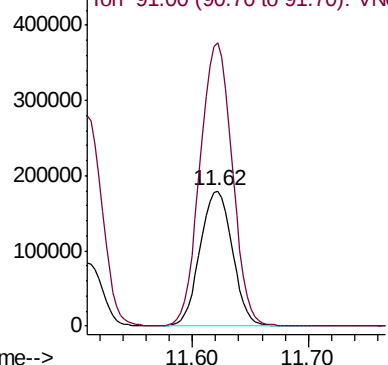
#67  
m/p-Xvlenes  
Concen: 39.877 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:106 Resp: 345970  
Ion Ratio Lower Upper  
106 100  
91 209.1 166.1 249.1

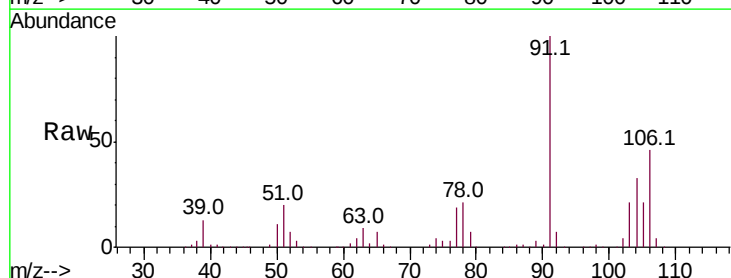


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN0

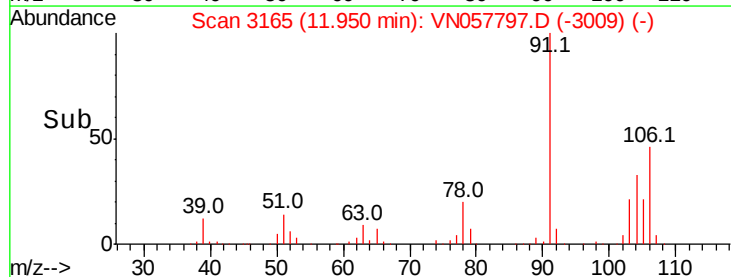
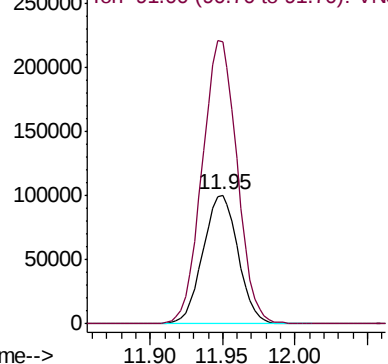


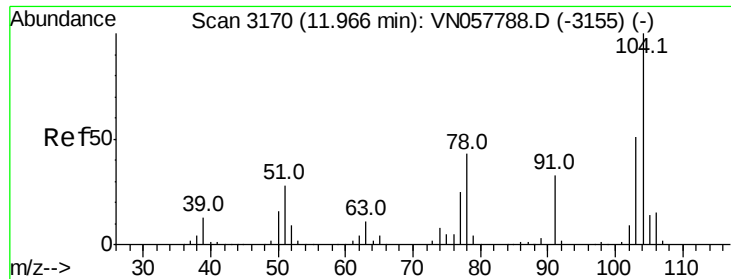
#68  
o-Xylene  
Concen: 19.980 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion:106 Resp: 169821  
Ion Ratio Lower Upper  
106 100  
91 218.4 111.5 334.4



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN0

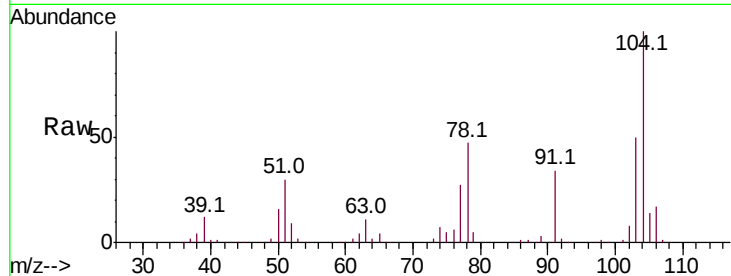




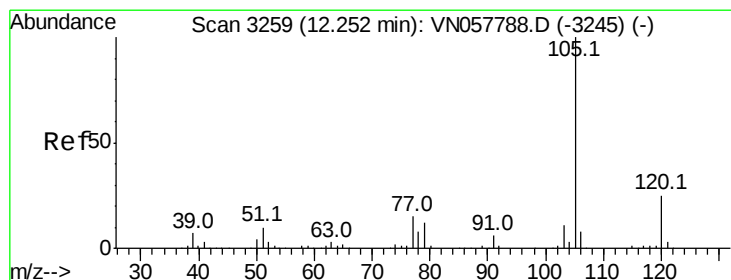
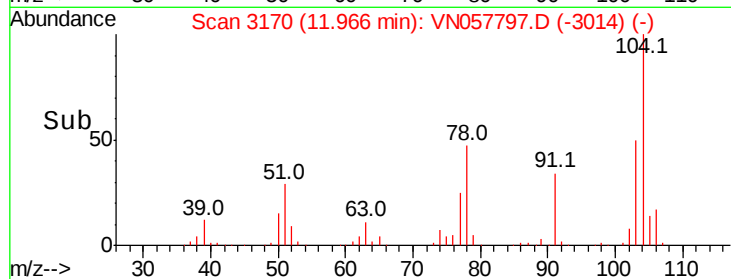
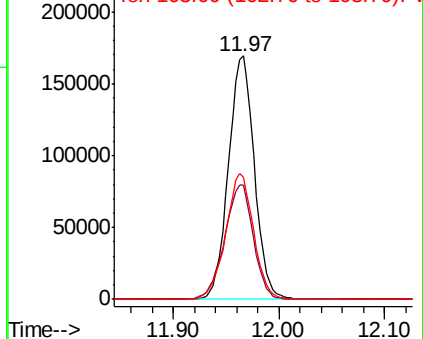
#69  
Stvrene  
Concen: 19.896 ug/l  
RT: 11.97 min Scan# 3170  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:104 Resp: 288320  
Ion Ratio Lower Upper  
104 100  
78 51.9 41.5 62.3  
103 55.3 44.8 67.2

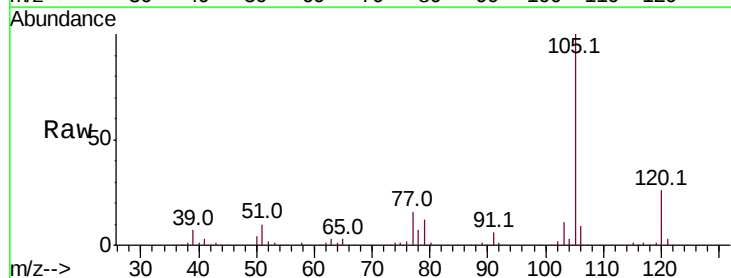


Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VN  
Ion 103.00 (102.70 to 103.70): V

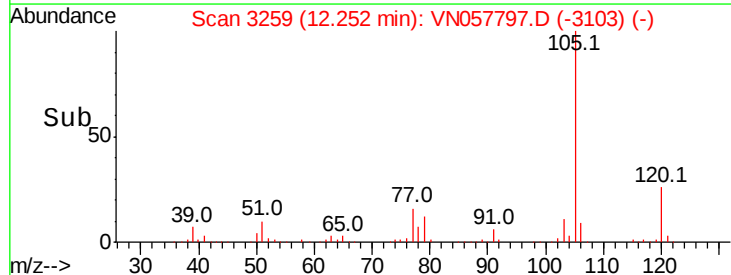
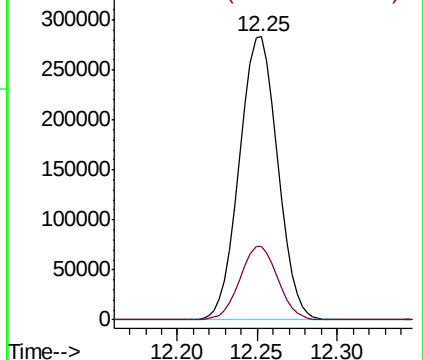


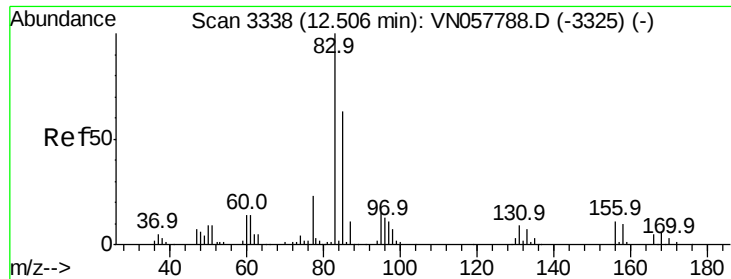
#70  
Isopropylbenzene  
Concen: 20.564 ug/l  
RT: 12.25 min Scan# 3259  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion:105 Resp: 462091  
Ion Ratio Lower Upper  
105 100  
120 25.7 17.6 32.6



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V

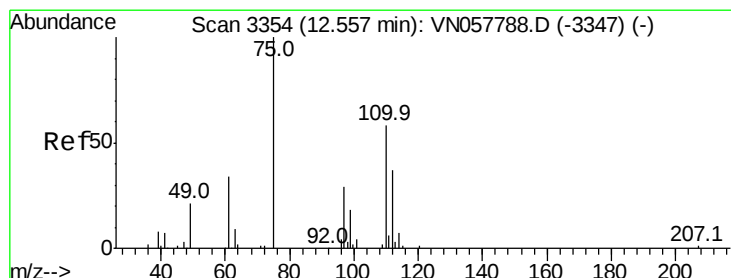
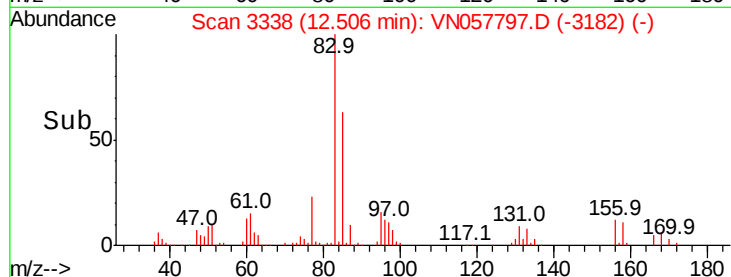
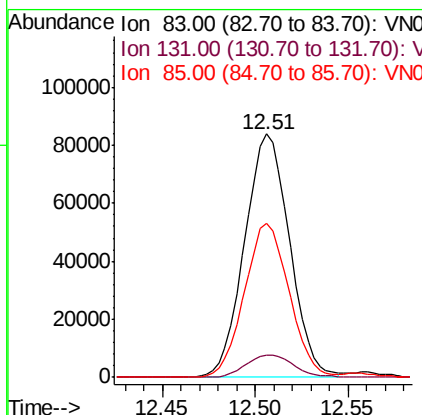
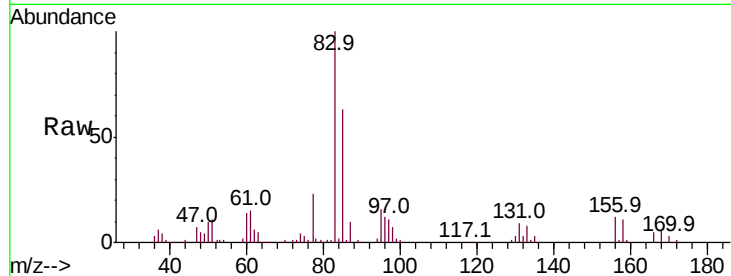




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 20.124 ug/l  
 RT: 12.51 min Scan# 3338  
 Delta R.T. 0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

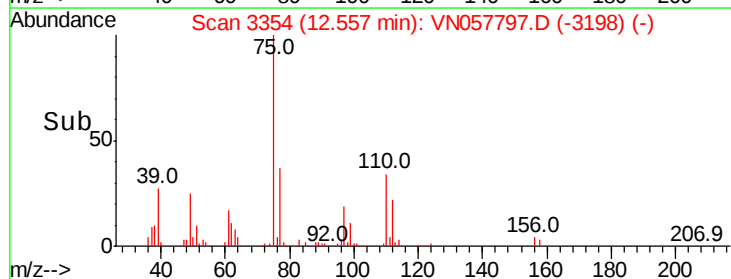
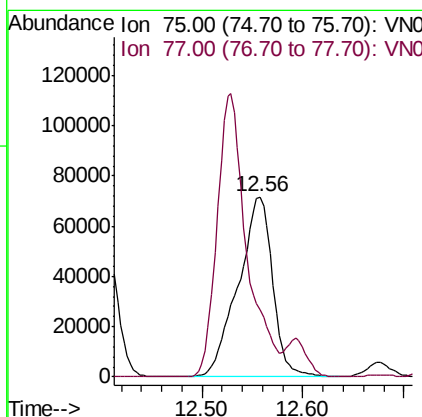
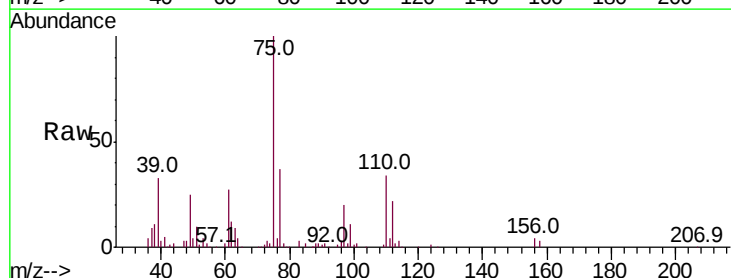
Instrument :  
 MSVOA\_N  
 ClientSampled :

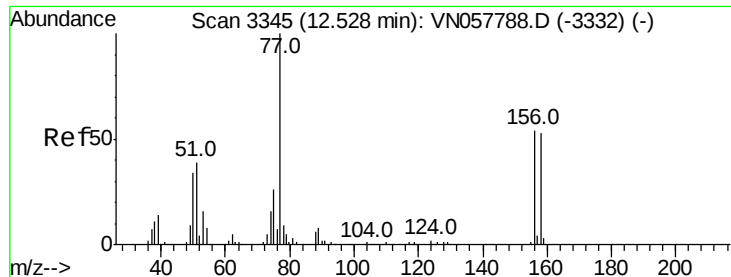
| Tot Ion | 83    | Resp  | 141327 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 83      | 100   |       |        |
| 131     | 9.8   | 4.9   | 14.6   |
| 85      | 62.8  | 32.1  | 96.3   |



#72  
 1,2,3-Trichloropropane  
 Concen: 27.199 ug/l  
 RT: 12.56 min Scan# 3354  
 Delta R.T. 0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

| Tgt Ion | 75    | Resp  | 169535 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 75      | 100   |       |        |
| 77      | 136.5 | 0.0   | 351.6  |





#73

Bromobenzene

Concen: 19.237 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

ClientSampleId :

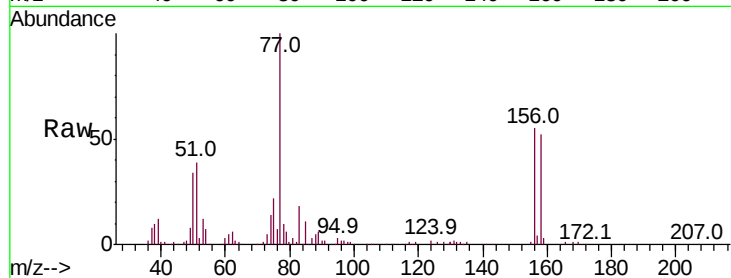
Tot Ion:156 Resp: 103490

Ion Ratio Lower Upper

156 100

77 223.6 0.0 446.6

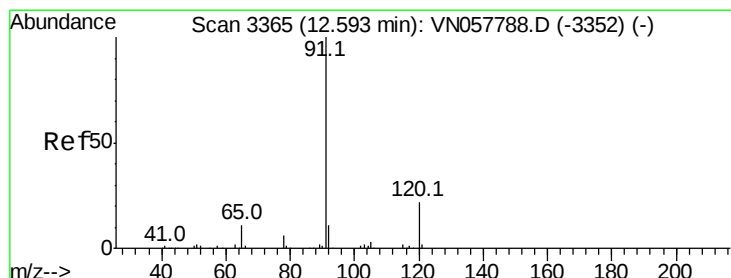
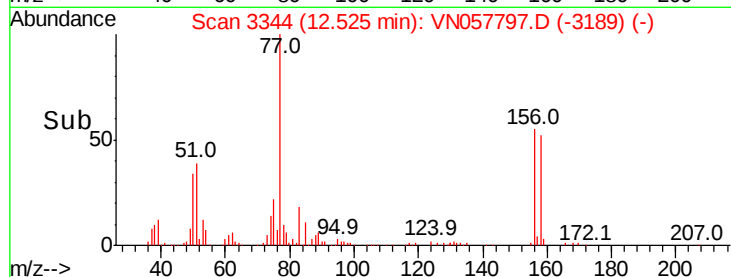
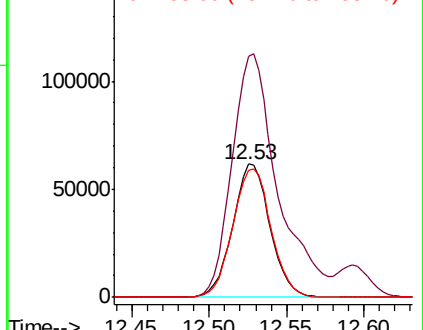
158 98.8 0.0 197.2



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 20.993 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN057797.D

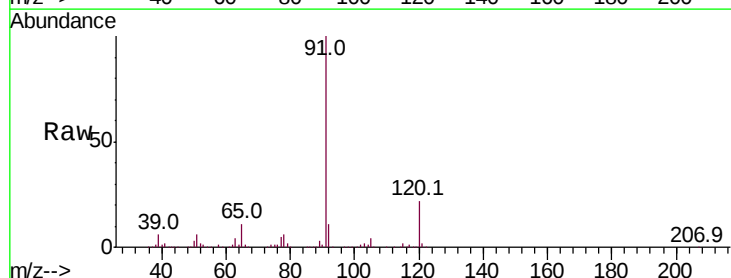
Acq: 9 Sep 2019 13:14

Tgt Ion: 91 Resp: 538939

Ion Ratio Lower Upper

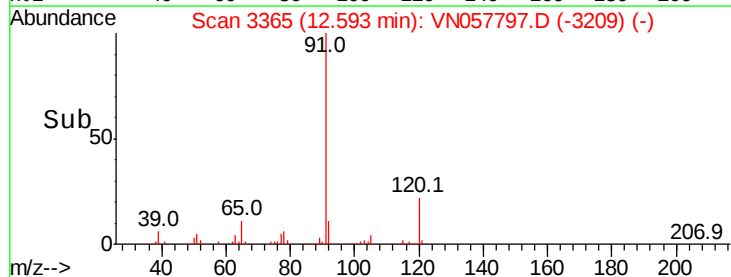
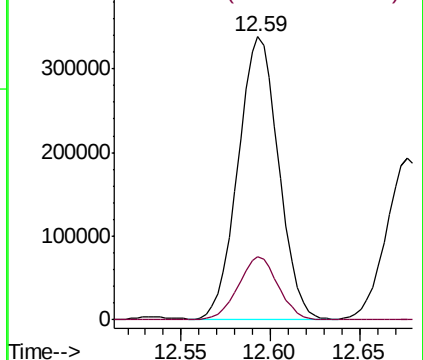
91 100

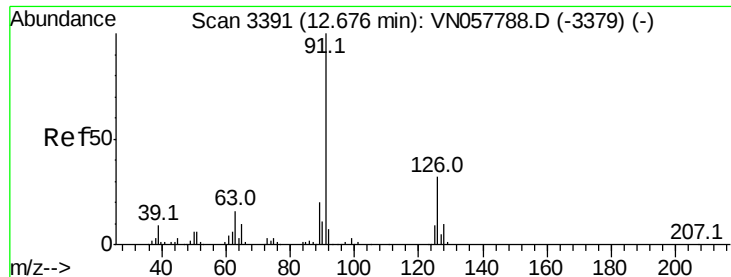
120 21.8 0.0 43.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 19.802 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

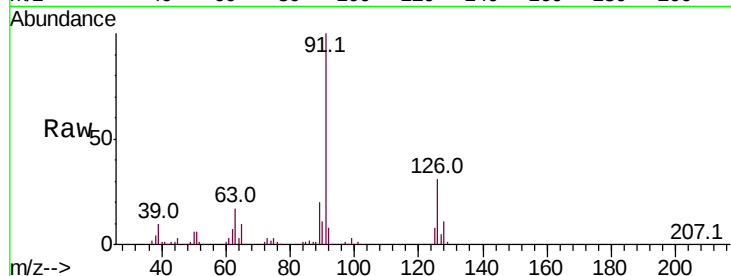
ClientSampleId :

Tot Ion: 91 Resp: 316641

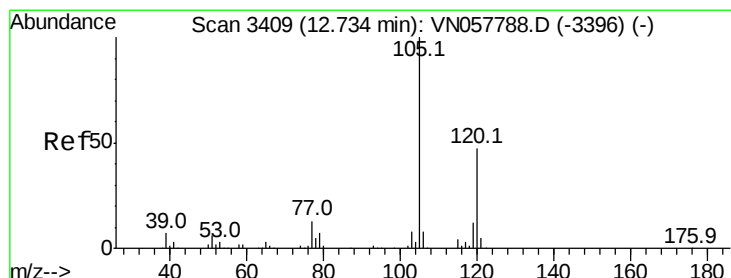
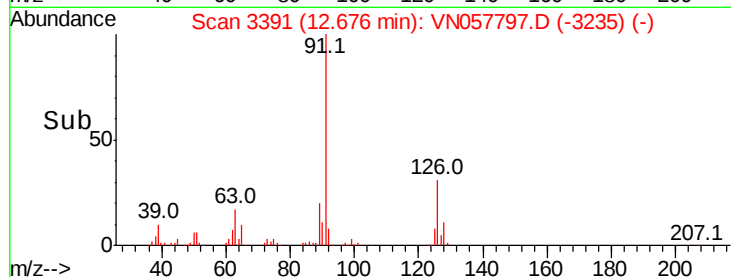
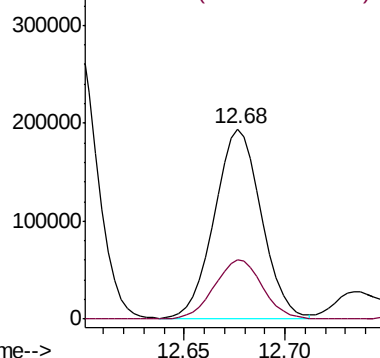
Ion Ratio Lower Upper

91 100

126 31.9 0.0 64.8



Abundance Ion 91.00 (90.70 to 91.70): VN057788.D (-3379) (-)



#76

1,3,5-Trimethylbenzene

Concen: 20.134 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN057797.D

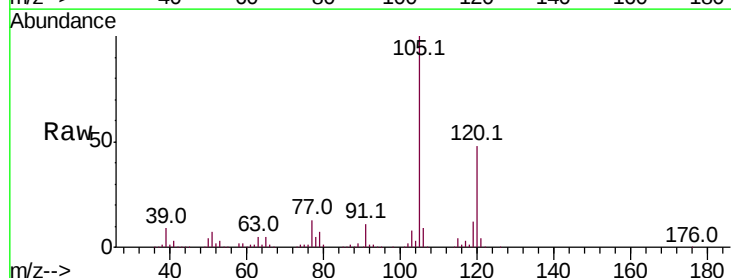
Acq: 9 Sep 2019 13:14

Tgt Ion: 105 Resp: 385247

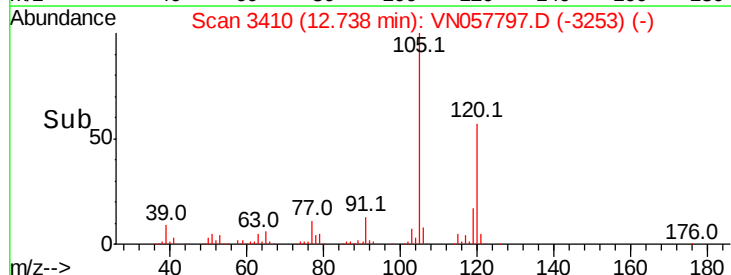
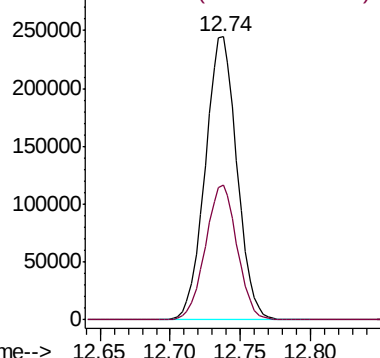
Ion Ratio Lower Upper

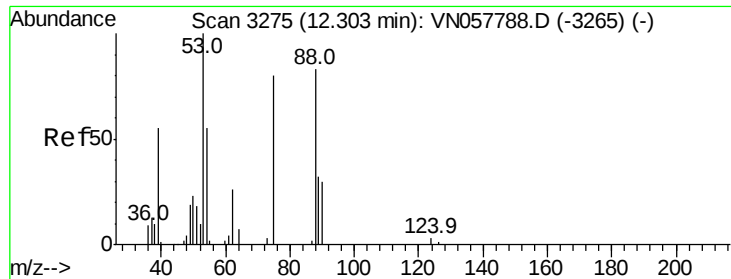
105 100

120 47.5 0.0 94.4



Abundance Ion 105.00 (104.70 to 105.70): VN057788.D (-3396) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 16.718 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

ClientSampled :

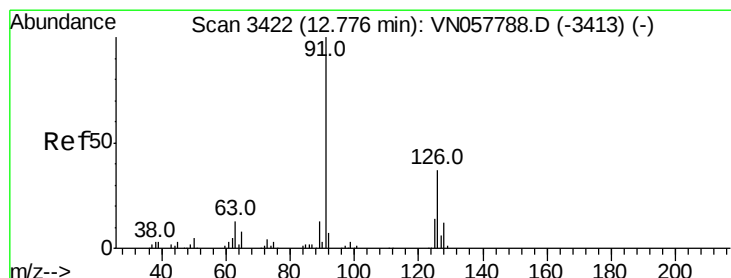
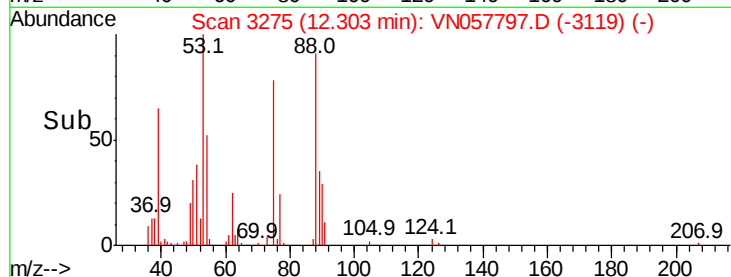
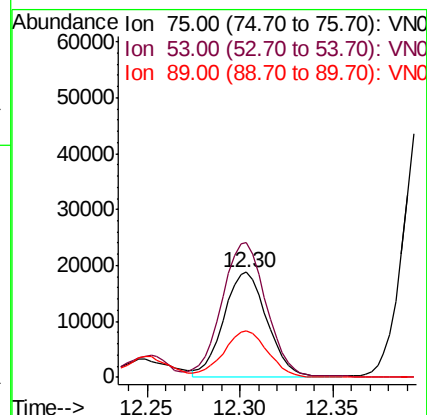
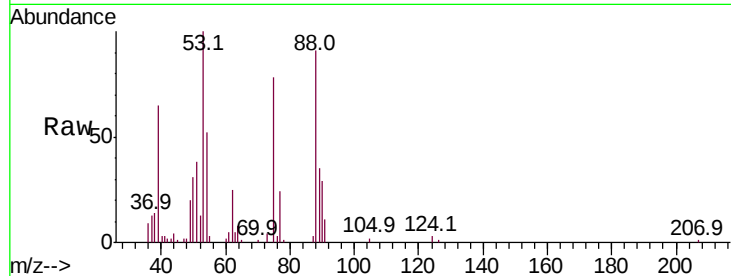
Tot Ion: 75 Resp: 30915

Ion Ratio Lower Upper

75 100

53 128.2 62.7 188.2

89 44.8 22.8 68.3



#78

4-Chlorotoluene

Concen: 19.535 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN057797.D

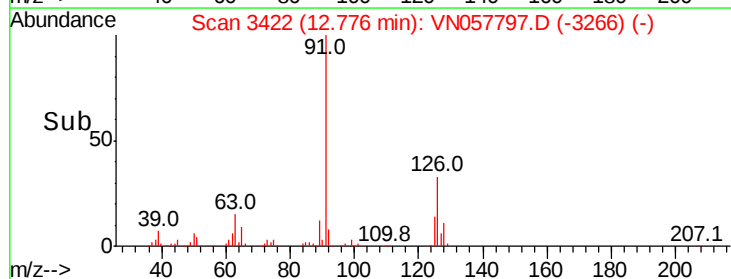
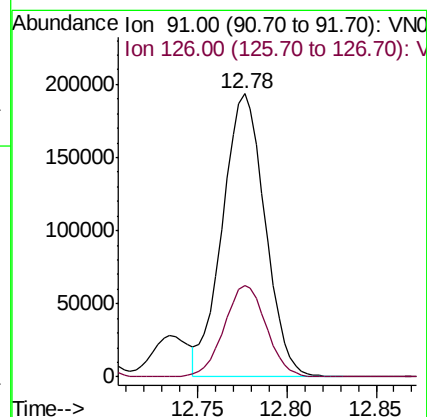
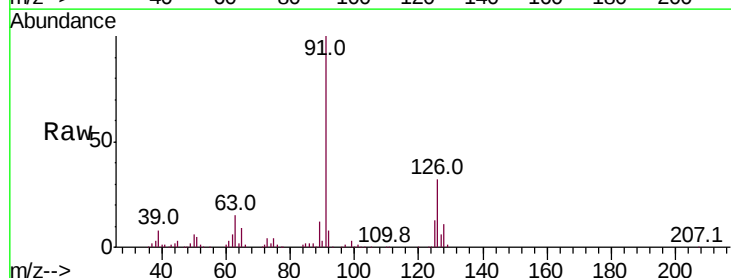
Acq: 9 Sep 2019 13:14

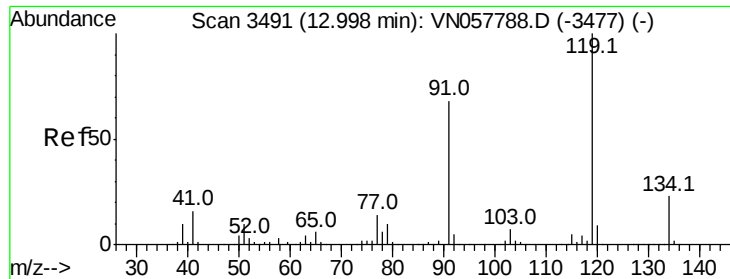
Tgt Ion: 91 Resp: 318636

Ion Ratio Lower Upper

91 100

126 32.3 0.0 65.2

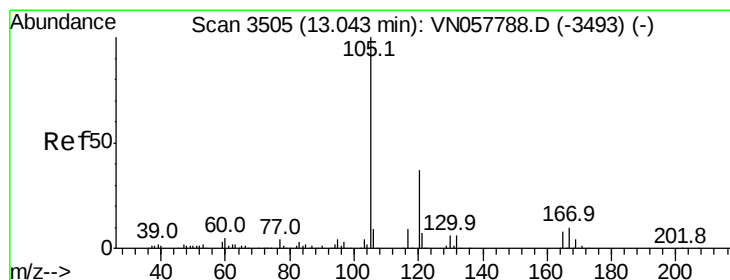
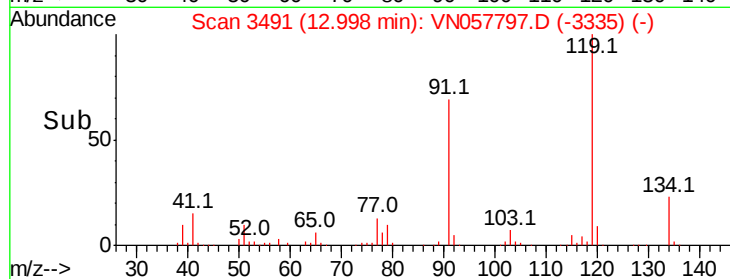
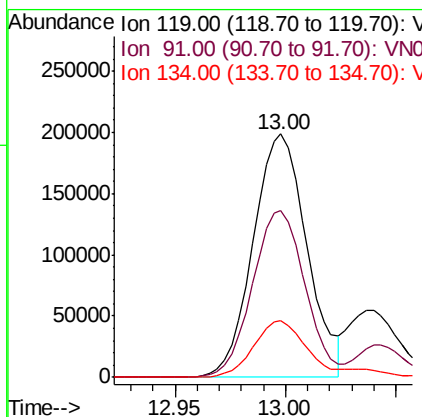
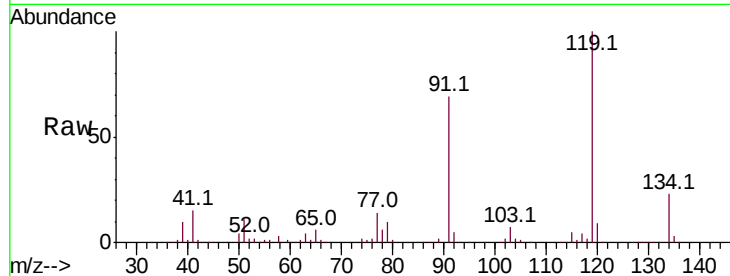




#79  
tert-butylbenzene  
Concen: 20.126 ug/l  
RT: 13.00 min Scan# 3491  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

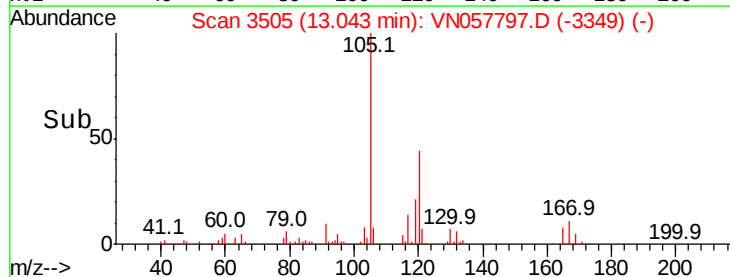
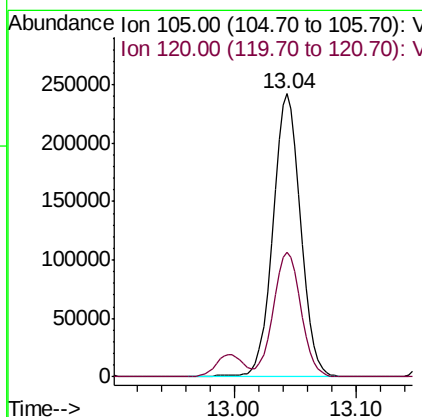
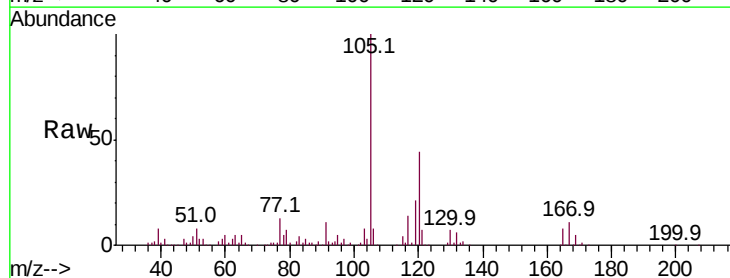
Instrument :  
MSVOA\_N  
ClientSampled :

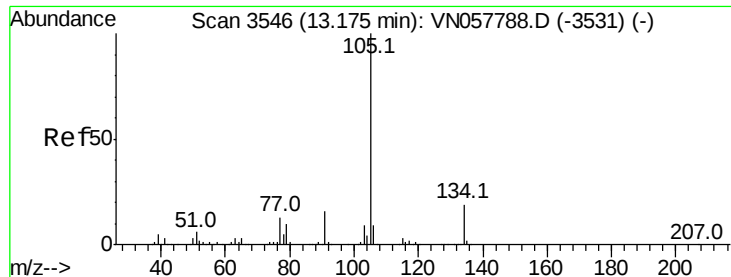
Tot Ion:119 Resp: 335961  
Ion Ratio Lower Upper  
119 100  
91 67.4 0.0 133.8  
134 22.6 0.0 46.4



#80  
1,2,4-Trimethylbenzene  
Concen: 20.271 ug/l  
RT: 13.04 min Scan# 3505  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion:105 Resp: 386464  
Ion Ratio Lower Upper  
105 100  
120 44.2 0.0 87.8





#81

sec-Butylbenzene

Concen: 20.238 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

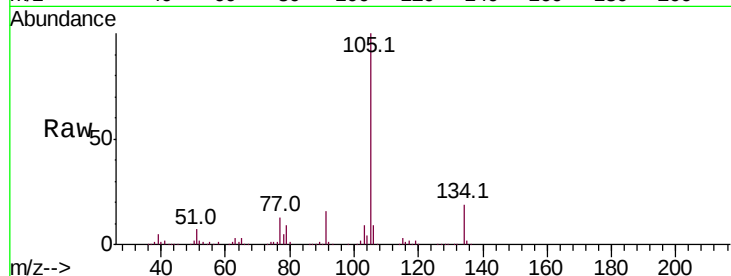
ClientSampled :

Tot Ion:105 Resp: 448228

Ion Ratio Lower Upper

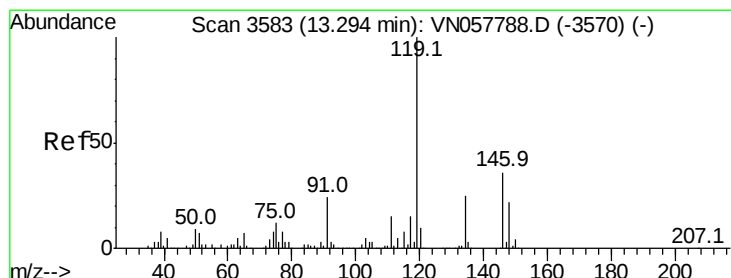
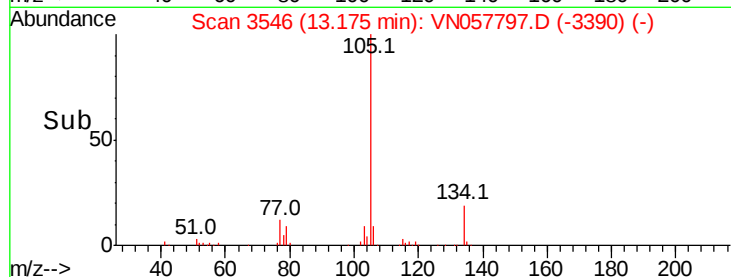
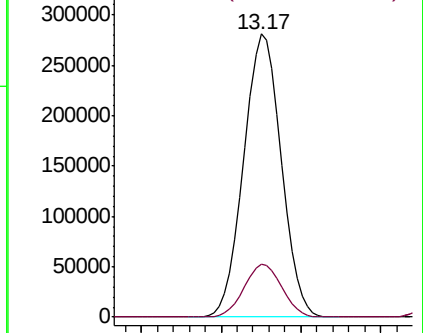
105 100

134 18.9 0.0 37.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 20.005 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

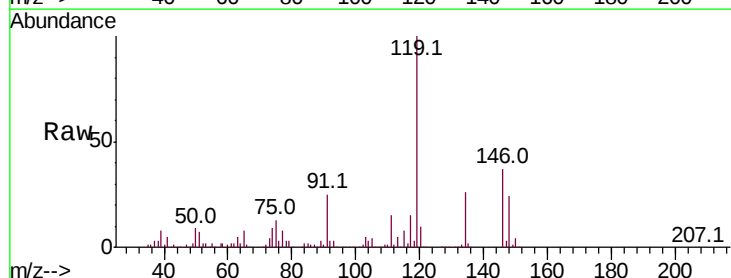
Tgt Ion:119 Resp: 396783

Ion Ratio Lower Upper

119 100

134 25.6 0.0 50.4

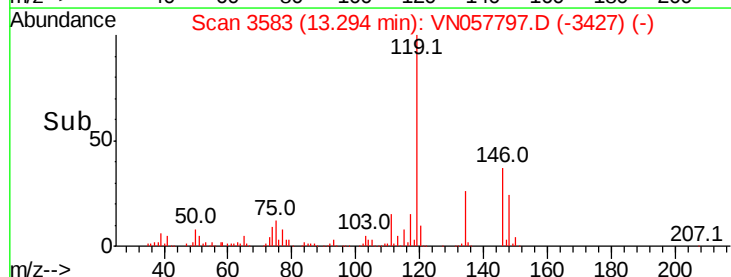
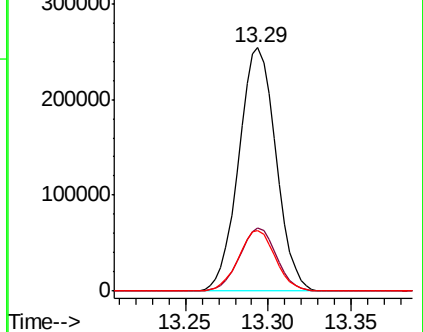
91 24.7 0.0 48.8

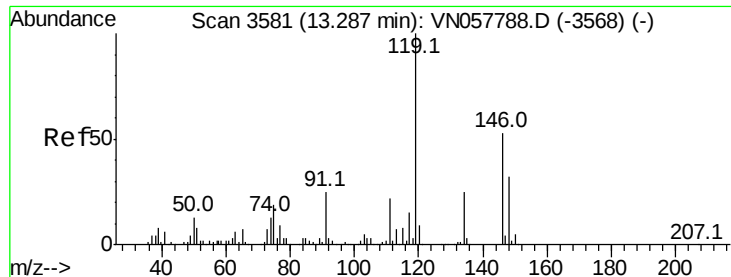


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

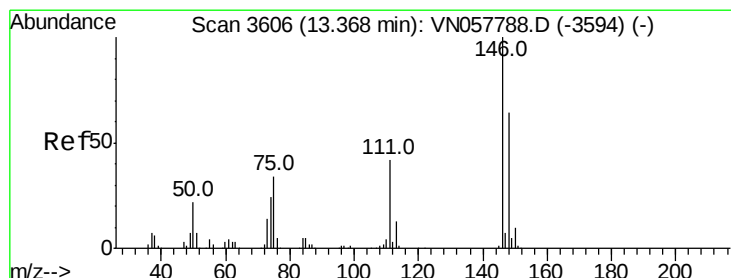
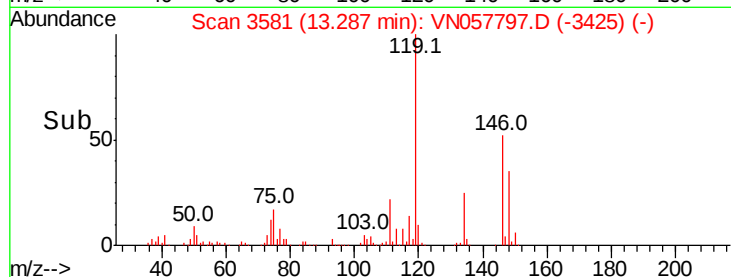
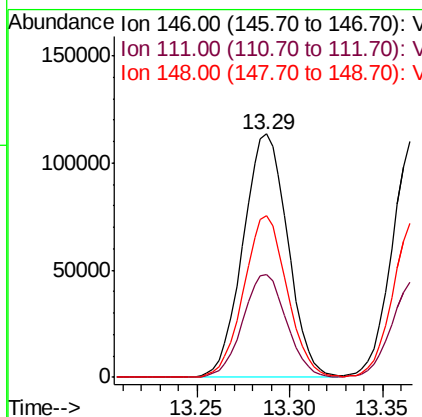
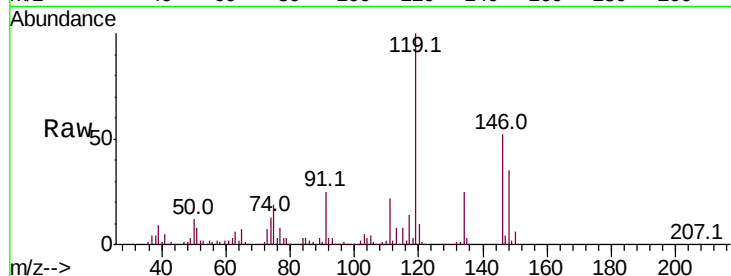




#83  
 1,3-Dichlorobenzene  
 Concen: 18.998 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. 0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

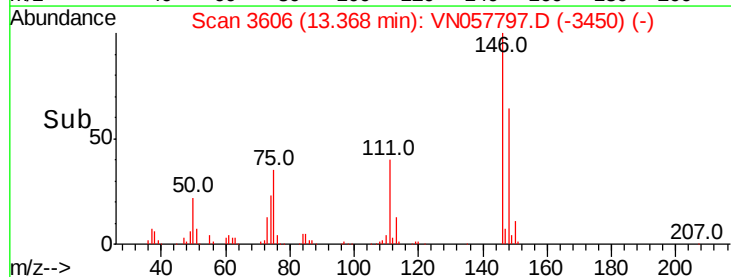
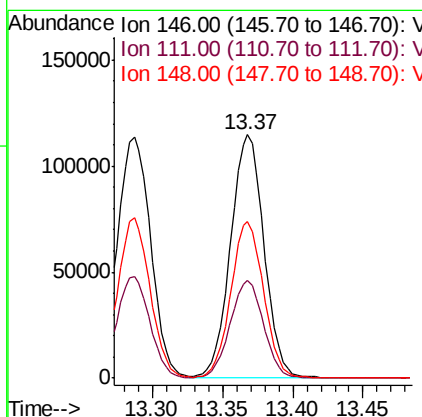
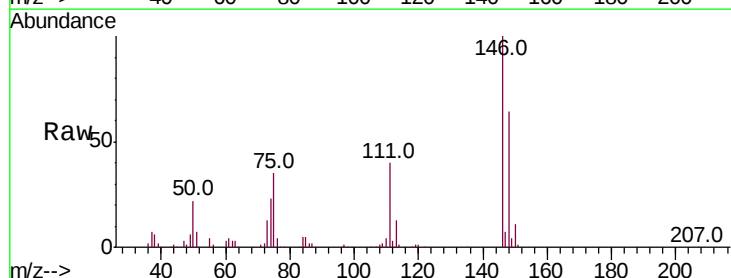
Instrument :  
 MSVOA\_N  
 ClientSampleId :

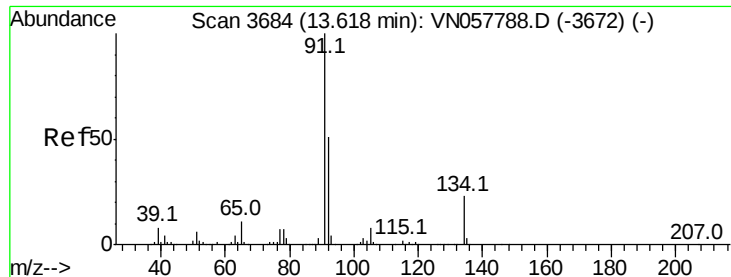
Tot Ion:146 Resp: 189969  
 Ion Ratio Lower Upper  
 146 100  
 111 41.3 20.7 62.1  
 148 64.3 30.9 92.5



#84  
 1,4-Dichlorobenzene  
 Concen: 19.430 ug/l  
 RT: 13.37 min Scan# 3606  
 Delta R.T. 0.00 min  
 Lab File: VN057797.D  
 Acq: 9 Sep 2019 13:14

Tgt Ion:146 Resp: 191284  
 Ion Ratio Lower Upper  
 146 100  
 111 40.0 21.1 63.4  
 148 62.2 31.7 95.1

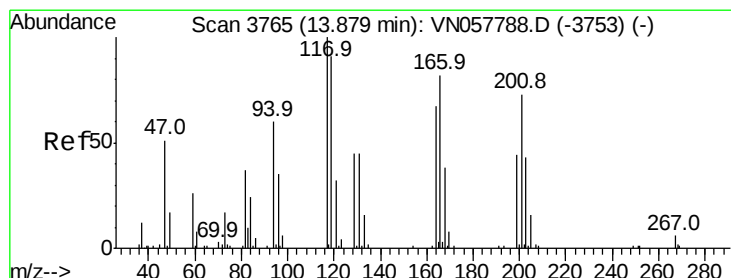
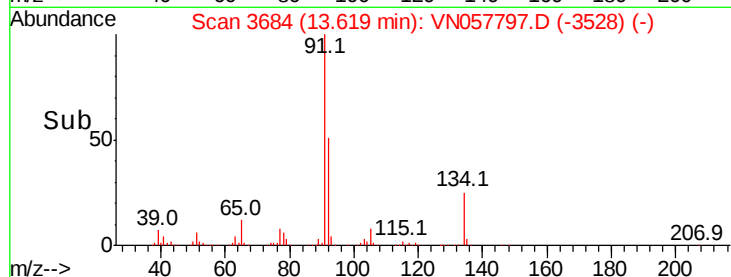
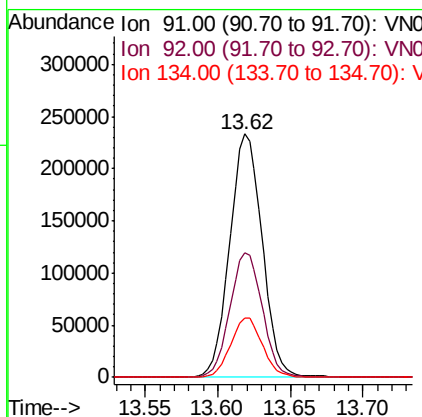
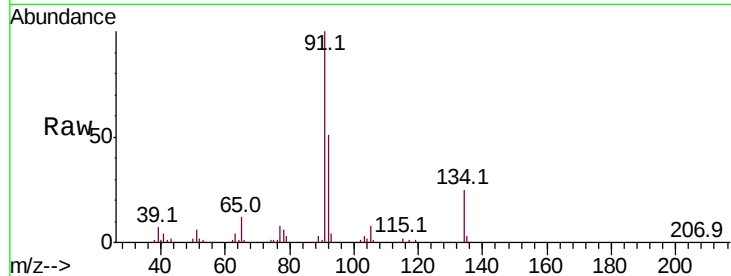




#85  
n-Butylbenzene  
Concen: 19.600 ug/l  
RT: 13.62 min Scan# 3684  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

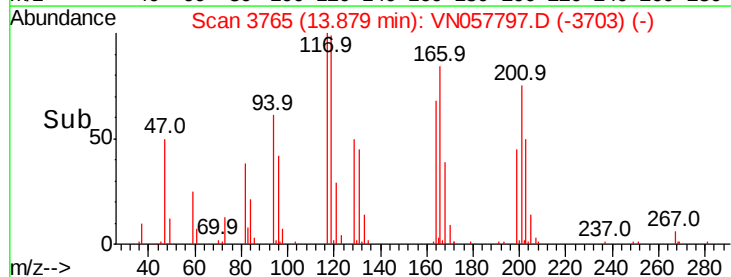
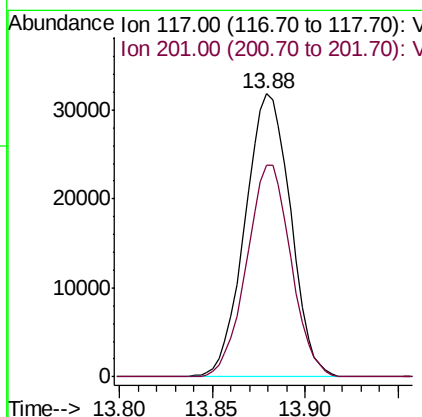
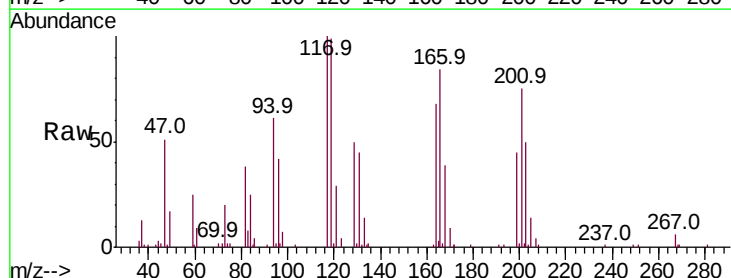
Instrument :  
MSVOA\_N  
ClientSampled :

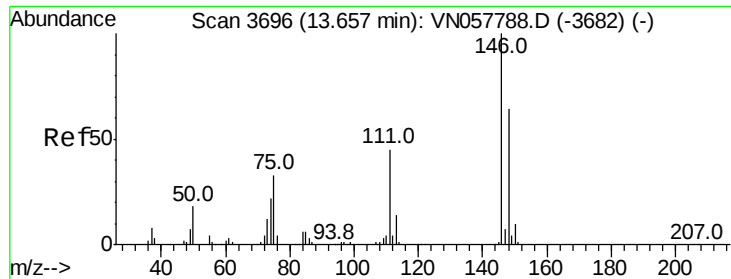
Tot Ion: 91 Resp: 362313  
Ion Ratio Lower Upper  
91 100  
92 51.2 0.0 100.0  
134 23.9 0.0 46.6



#86  
Hexachloroethane  
Concen: 17.160 ug/l  
RT: 13.88 min Scan# 3765  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion: 117 Resp: 54214  
Ion Ratio Lower Upper  
117 100  
201 72.9 36.7 110.1





#87

1,2-Dichlorobenzene

Concen: 19.731 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

Instrument :

MSVOA\_N

ClientSampleId :

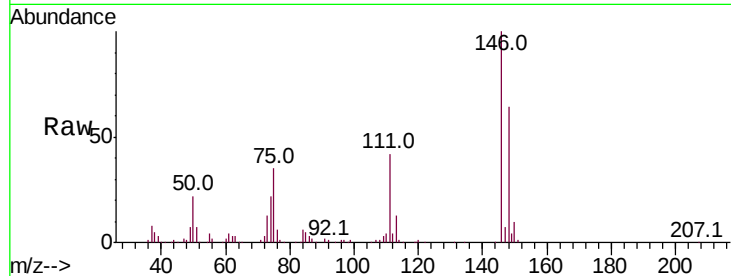
Tot Ion:146 Resp: 191522

Ion Ratio Lower Upper

146 100

111 42.8 22.2 66.6

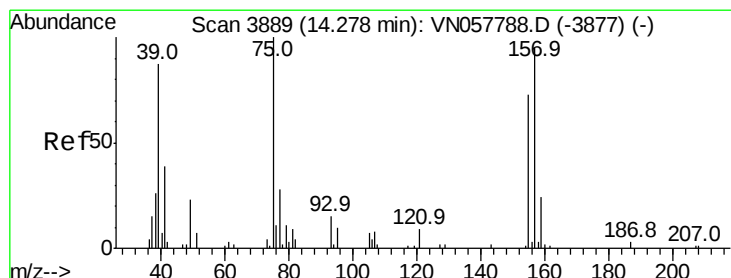
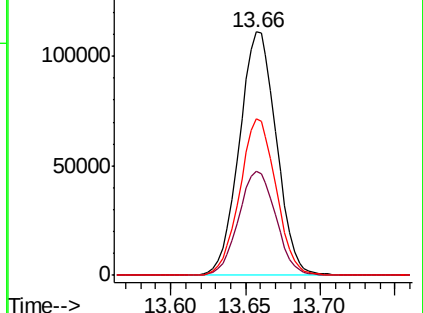
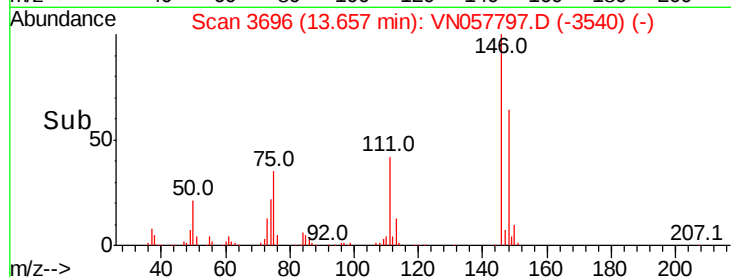
148 63.0 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.393 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. 0.00 min

Lab File: VN057797.D

Acq: 9 Sep 2019 13:14

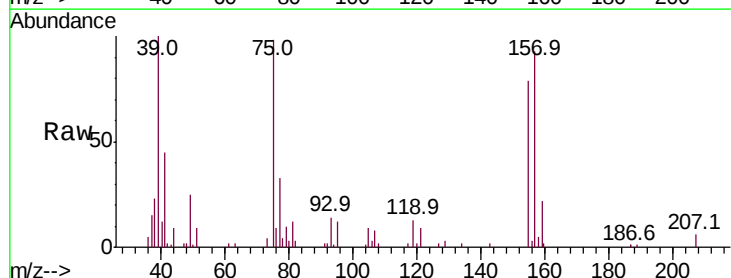
Tgt Ion: 75 Resp: 22742

Ion Ratio Lower Upper

75 100

155 78.1 59.4 89.2

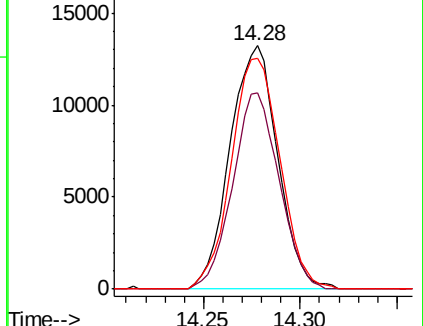
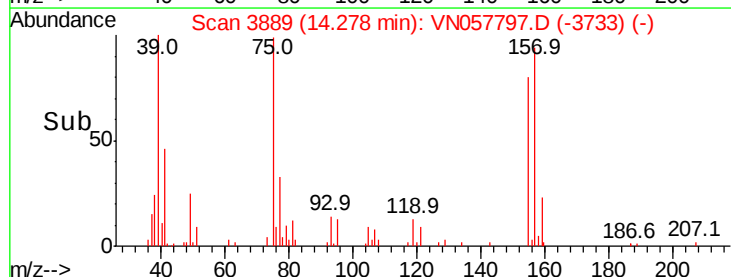
157 96.4 74.6 112.0

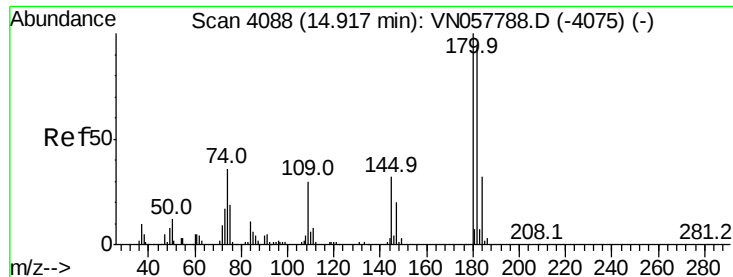


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

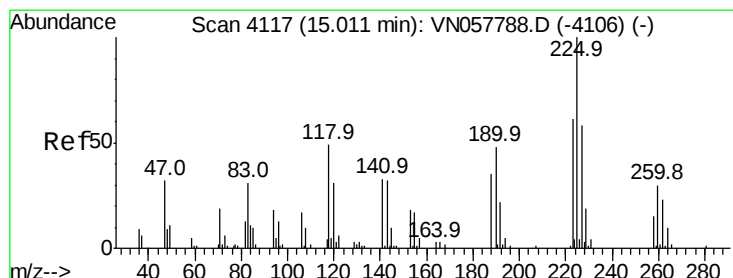
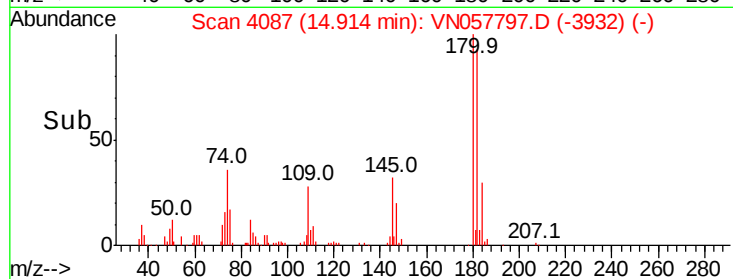
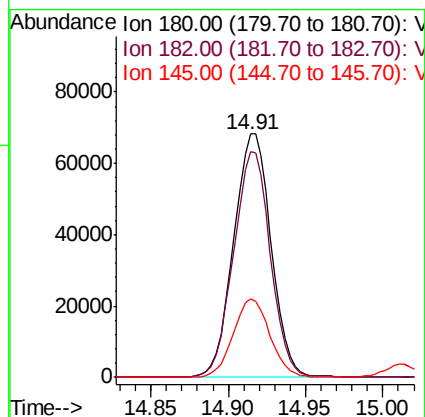
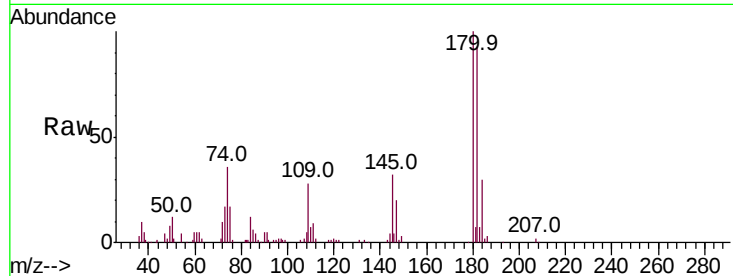




#89  
1,2,4-Trichlorobenzene  
Concen: 19.351 ug/l  
RT: 14.91 min Scan# 4087  
Delta R.T. -0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

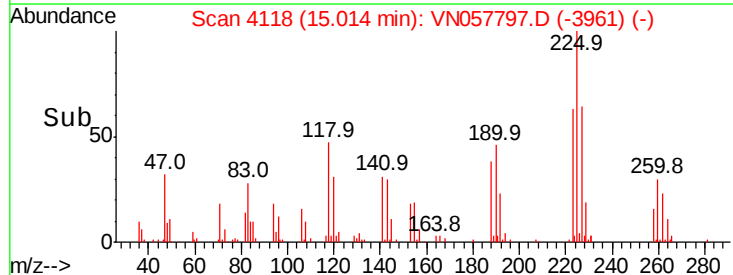
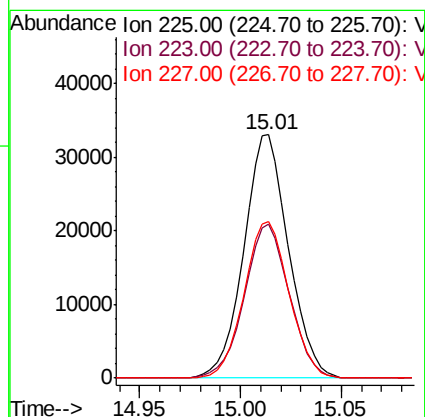
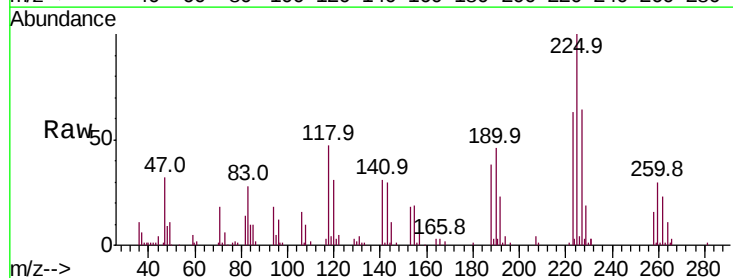
Instrument :  
MSVOA\_N  
ClientSampled :

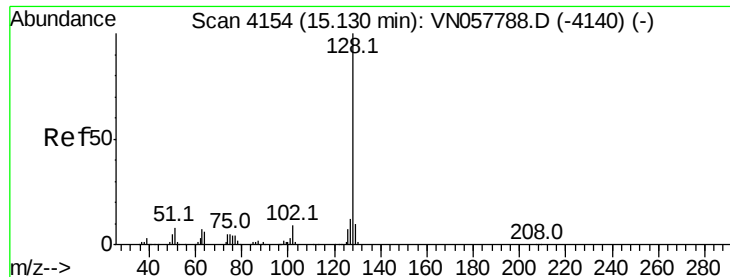
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 91.1  | 77.0  | 115.4 |
| 145     | 31.4  | 26.1  | 39.1  |



#90  
Hexachlorobutadiene  
Concen: 18.790 ug/l  
RT: 15.01 min Scan# 4118  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.6  | 0.0   | 125.0 |
| 227     | 64.7  | 0.0   | 123.8 |

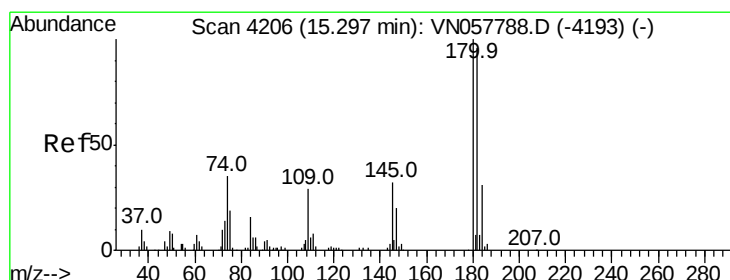
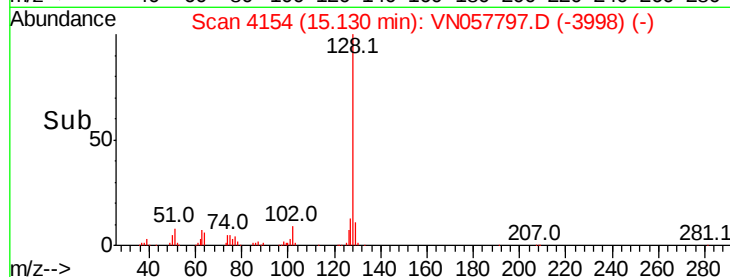
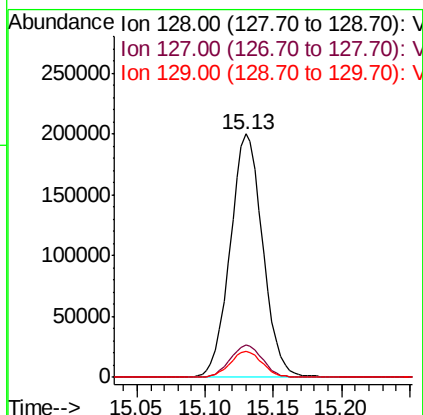
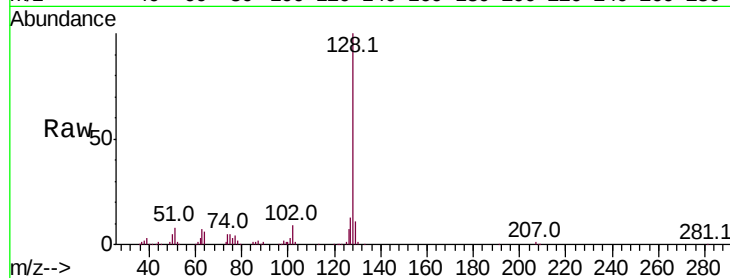




#91  
Naphthalene  
Concen: 20.292 ug/l  
RT: 15.13 min Scan# 4154  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:128 Resp: 331053  
Ion Ratio Lower Upper  
128 100  
127 13.2 9.9 14.9  
129 10.6 8.1 12.1



#92  
1,2,3-Trichlorobenzene  
Concen: 19.843 ug/l  
RT: 15.30 min Scan# 4206  
Delta R.T. 0.00 min  
Lab File: VN057797.D  
Acq: 9 Sep 2019 13:14

Tgt Ion:180 Resp: 112207  
Ion Ratio Lower Upper  
180 100  
182 92.3 0.0 189.8  
145 32.0 0.0 65.0

