

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081719\  
 Data File : VN057350.D  
 Acq On : 16 Aug 2019 12:41  
 Operator : JC/SP  
 Sample : VSTDICC100  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Quant Time: Aug 16 13:09:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081719W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Aug 16 12:38:14 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.19  | 128  | 142484   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.58  | 114  | 786726   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.40 | 117  | 720791   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.02   | 65    | 278489   | 30.42    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 101.40% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 337663   | 33.38    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 111.27% |
| 63) Toluene-d8            | 10.09  | 98    | 949563   | 28.58    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 95.27%  |

## Target Compounds

|                               |      |     |         |                | Ovalue |
|-------------------------------|------|-----|---------|----------------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 753994  | 103.811 ug/l   | 98     |
| 3) Chloromethane              | 2.05 | 50  | 839643  | 99.605 ug/l    | 100    |
| 4) Vinyl Chloride             | 2.18 | 62  | 815152  | 101.226 ug/l   | 98     |
| 5) Bromomethane               | 2.53 | 94  | 613627m | 92.497 ug/l    |        |
| 6) Chloroethane               | 2.68 | 64  | 546666  | 97.583 ug/l    | 100    |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 1287201 | 98.237 ug/l    | 97     |
| 8) Diethyl Ether              | 3.40 | 74  | 480087  | 101.140 ug/l   | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101 | 744192  | 94.440 ug/l    | 95     |
| 10) 1,1-Dichloroethene        | 3.73 | 96  | 751902  | 97.518 ug/l    | 94     |
| 11) Methyl Iodide             | 3.95 | 142 | 1324979 | 104.532 ug/l   | 99     |
| 12) Methyl Acetate            | 4.31 | 43  | 794549  | 87.976 ug/l    | 98     |
| 13) Acrolein                  | 3.60 | 56  | 402535  | 493.629 ug/l   | 99     |
| 14) Acrylonitrile             | 4.97 | 53  | 1769813 | 514.535 ug/l   | 100    |
| 15) Acetone                   | 3.80 | 58  | 491406  | 461.998 ug/l   | 99     |
| 16) Carbon Disulfide          | 4.05 | 76  | 2113252 | 101.902 ug/l   | 99     |
| 17) Allyl chloride            | 4.31 | 41  | 1053870 | 94.330 ug/l    | 95     |
| 18) Methylene Chloride        | 4.54 | 84  | 861542  | 97.155 ug/l    | 94     |
| 19) trans-1,2-Dichloroethene  | 5.03 | 96  | 806062  | 95.479 ug/l    | 97     |
| 20) Diisopropyl ether         | 5.93 | 45  | 2264057 | 95.549 ug/l    | 96     |
| 21) 1,1-Dichloroethane        | 5.84 | 63  | 1420938 | 97.639 ug/l    | 99     |
| 22) cis-1,2-Dichloroethene    | 6.82 | 96  | 934519  | 95.735 ug/l    | 98     |
| 23) tert-Butyl Alcohol        | 4.76 | 59  | 639385  | 525.813 ug/l # | 100    |
| 24) Methyl tert-Butyl Ether   | 5.03 | 73  | 2330543 | 98.948 ug/l    | 99     |
| 25) Chloroform                | 7.36 | 83  | 1463836 | 95.567 ug/l    | 98     |
| 26) Cyclohexane               | 7.64 | 56  | 1188440 | 98.896 ug/l #  | 95     |
| 29) 1,1-Dichloropropene       | 7.79 | 75  | 1109057 | 96.027 ug/l    | 98     |
| 30) 2-Butanone                | 6.82 | 43  | 2208966 | 485.988 ug/l   | 96     |
| 31) 2,2-Dichloropropane       | 6.81 | 77  | 1218730 | 95.815 ug/l    | 99     |
| 32) 1,1,1-Trichloroethane     | 7.56 | 97  | 1325101 | 97.432 ug/l    | 97     |
| 33) Carbon Tetrachloride      | 7.77 | 117 | 1186055 | 98.552 ug/l    | 98     |
| 34) Benzene                   | 8.03 | 78  | 3345251 | 95.073 ug/l #  | 91     |
| 35) Methacrylonitrile         | 7.18 | 41  | 692246m | 120.272 ug/l   |        |
| 36) 1,2-Dichloroethane        | 8.12 | 62  | 1086585 | 94.752 ug/l    | 99     |
| 37) Trichloroethene           | 8.83 | 130 | 968219  | 94.249 ug/l    | 96     |
| 38) Methylcyclohexane         | 9.08 | 83  | 1324658 | 97.237 ug/l    | 96     |
| 39) 1,2-Dichloropropane       | 9.11 | 63  | 859565  | 95.818 ug/l    | 99     |
| 40) Dibromomethane            | 9.20 | 93  | 571178  | 95.784 ug/l    | 94     |

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 ClientSampleId :  
 VSTDICC100

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Aug 16 12:38:14 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 41) Bromodichloromethane       | 9.40  | 83   | 1162494  | 97.074   | ug/l  | 96       |
| 42) Vinyl Acetate              | 5.88  | 43   | 9355246  | 493.905  | ug/l  | 97       |
| 43) Ethyl Acetate              | 6.91  | 43   | 903621   | 96.993   | ug/l  | 98       |
| 44) Isopropyl Acetate          | 8.16  | 43   | 1595253m | 97.056   | ug/l  |          |
| 45) 1,4-Dioxane                | 9.19  | 88   | 315806   | 2092.207 | ug/l  | 96       |
| 46) Methyl methacrylate        | 9.19  | 41   | 738421   | 102.958  | ug/l  | 91       |
| 47) n-amyl Acetate             | 12.07 | 43   | 1306009  | 116.898  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 1295694  | 102.140  | ug/l  | 99       |
| 49) cis-1,3-Dichloropropene    | 9.83  | 75   | 1422707  | 99.461   | ug/l  | 96       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 829630   | 95.076   | ug/l  | 98       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 1276176  | 105.703  | ug/l  | 93       |
| 52) 1,3-Dichloropropane        | 10.70 | 76   | 1370867  | 96.897   | ug/l  | 100      |
| 53) Dibromochloromethane       | 10.90 | 129  | 988370   | 101.323  | ug/l  | 100      |
| 54) 1,2-Dibromoethane          | 11.00 | 107  | 896014   | 99.382   | ug/l  | 98       |
| 55) 2-Chloroethyl vinyl ether  | 9.69  | 63   | 1615346  | 631.973  | ug/l  | 97       |
| 56) Bromoform                  | 12.13 | 173  | 794838   | 112.691  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone       | 9.98  | 43   | 4528510  | 477.468  | ug/l  | 95       |
| 59) 2-Hexanone                 | 10.75 | 43   | 3325010  | 493.116  | ug/l  | 95       |
| 61) Tetrachloroethene          | 10.63 | 164  | 950389   | 84.422   | ug/l  | 97       |
| 62) Toluene                    | 10.15 | 91   | 3748776  | 91.396   | ug/l  | 99       |
| 64) Chlorobenzene              | 11.43 | 112  | 2404355  | 94.958   | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 915309   | 91.705   | ug/l  | 99       |
| 66) Ethyl Benzene              | 11.51 | 91   | 4216840  | 96.219   | ug/l  | 100      |
| 67) m/p-Xylenes                | 11.62 | 106  | 3213479  | 198.456  | ug/l  | 100      |
| 68) o-Xylene                   | 11.95 | 106  | 1557947  | 97.979   | ug/l  | 98       |
| 69) Styrene                    | 11.96 | 104  | 2651557  | 108.860  | ug/l  | 99       |
| 70) Isopropylbenzene           | 12.25 | 105  | 4206814  | 98.968   | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 1141447  | 96.826   | ug/l  | 98       |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 963308m  | 97.724   | ug/l  |          |
| 73) Bromobenzene               | 12.53 | 156  | 1140875  | 103.792  | ug/l  | 92       |
| 74) n-propylbenzene            | 12.59 | 91   | 4600581  | 109.166  | ug/l  | 97       |
| 75) 2-Chlorotoluene            | 12.67 | 91   | 2768405  | 103.342  | ug/l  | 97       |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 3560961  | 102.554  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 406883   | 115.633  | ug/l  | 87       |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 2735201  | 114.426  | ug/l  | 99       |
| 79) tert-butylbenzene          | 12.99 | 119  | 3139889  | 100.412  | ug/l  | 100      |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 3417303  | 106.187  | ug/l  | 99       |
| 81) sec-Butylbenzene           | 13.17 | 105  | 4022178  | 107.527  | ug/l  | 99       |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 3637912  | 110.266  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 1824194  | 120.779  | ug/l  | 100      |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 1722545  | 124.690  | ug/l  | 99       |
| 85) n-Butylbenzene             | 13.62 | 91   | 2752089  | 114.751  | ug/l  | 99       |
| 86) Hexachloroethane           | 13.88 | 117  | 675798   | 102.771  | ug/l  | 90       |
| 87) 1,2-Dichlorobenzene        | 13.65 | 146  | 1713288  | 118.391  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 173497   | 126.104  | ug/l  | 94       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 715133   | 178.377  | ug/l  | 98       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 702802   | 98.610   | ug/l  | 100      |
| 91) Naphthalene                | 15.13 | 128  | 1532964  | 192.286  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 628847   | 164.796  | ug/l  | 100      |

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Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Quant Time: Aug 16 13:09:43 2019  
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Aug 16 12:38:14 2019  
Response via : Initial Calibration

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

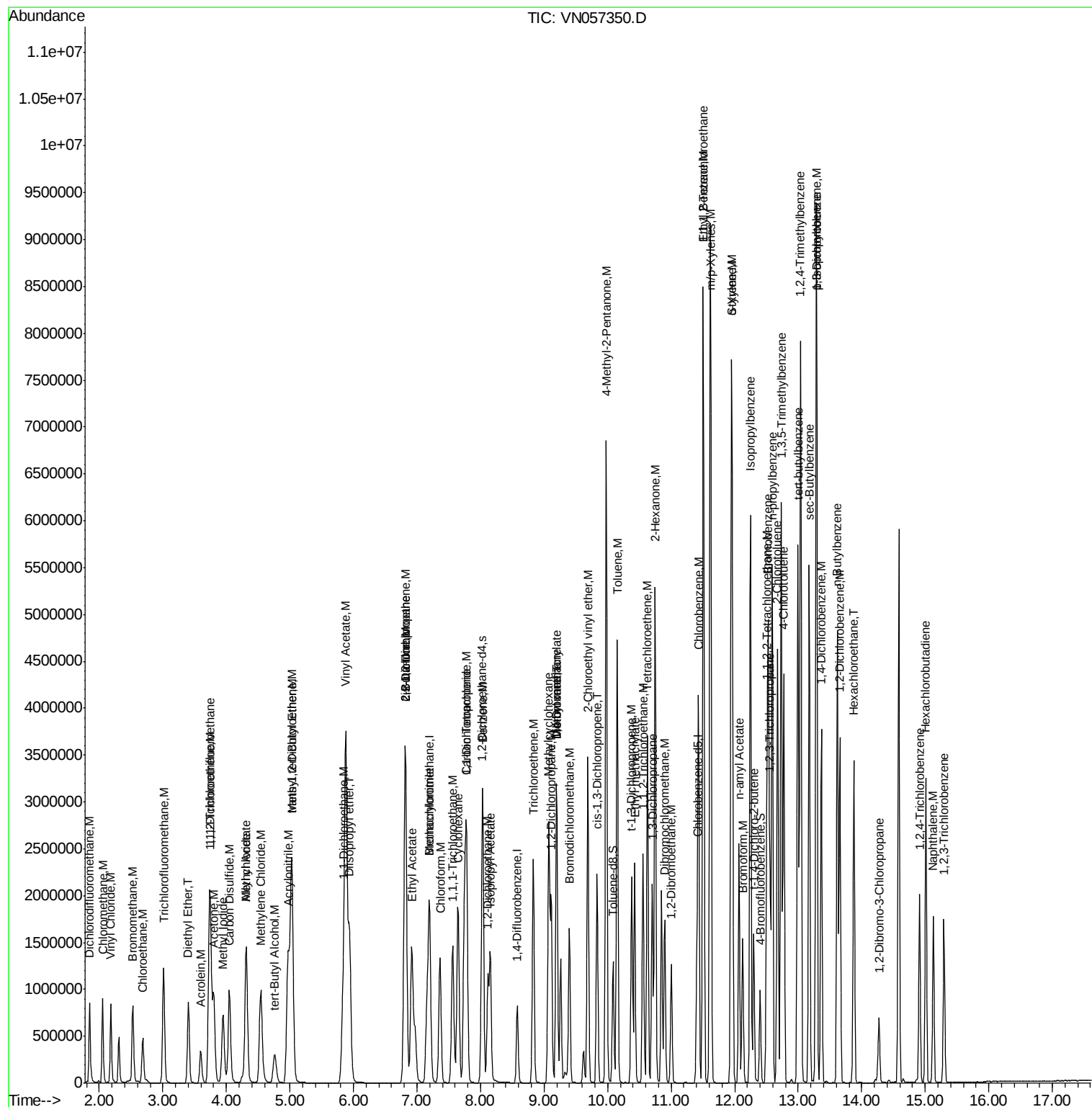
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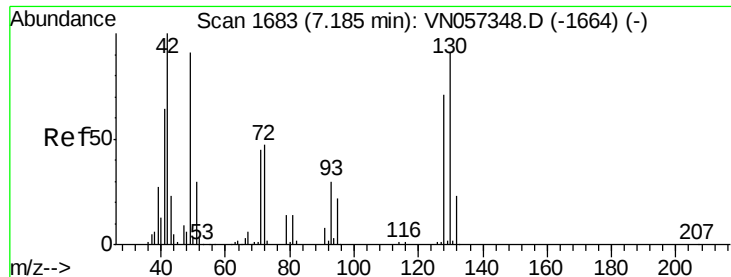
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Instrument :  
MSVOA\_N  
Client Sample Id :  
VSTDICC100

Quant Time: Aug 16 13:09:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081719W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Aug 16 12:38:14 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

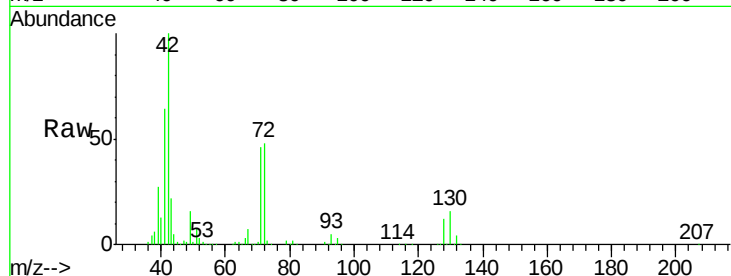
Tot Ion:128 Resp: 142484

Ion Ratio Lower Upper

128 100

49 140.7 0.0 390.5

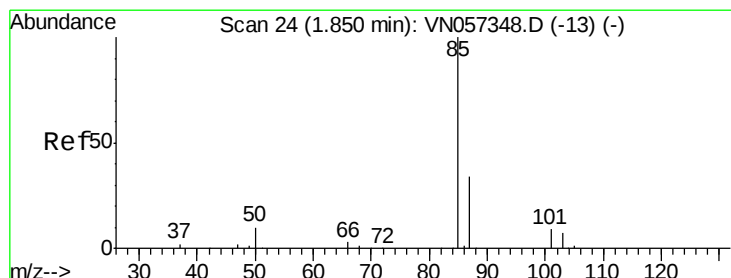
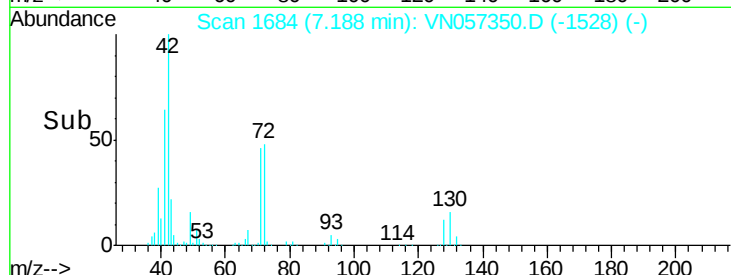
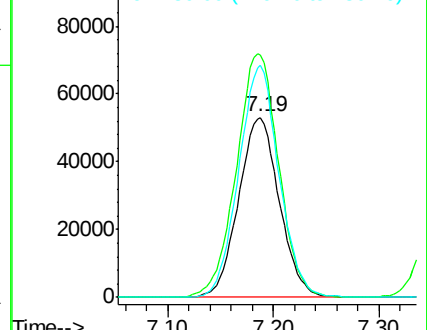
130 127.6 0.0 316.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 103.811 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN057350.D

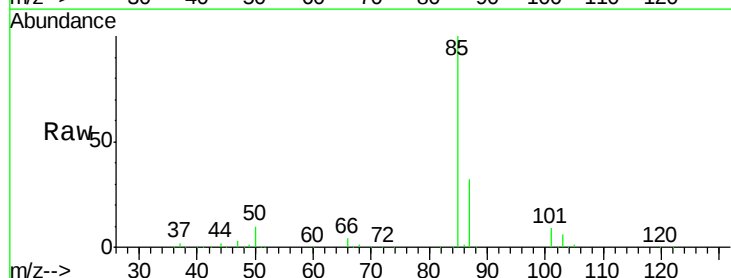
Acq: 16 Aug 2019 12:41

Tgt Ion: 85 Resp: 753994

Ion Ratio Lower Upper

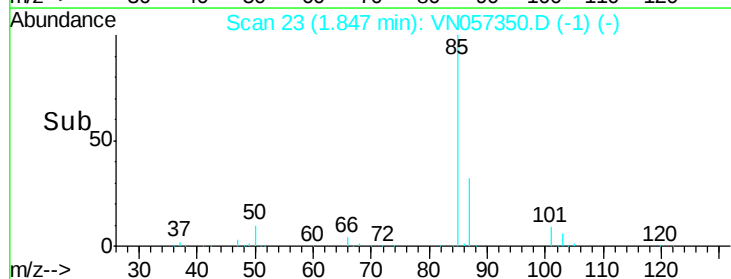
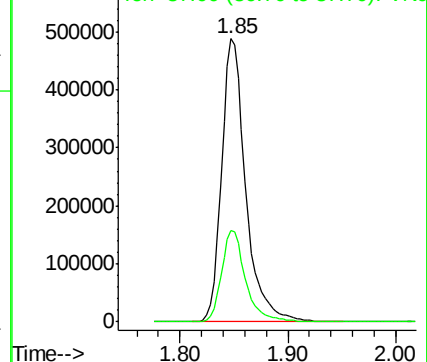
85 100

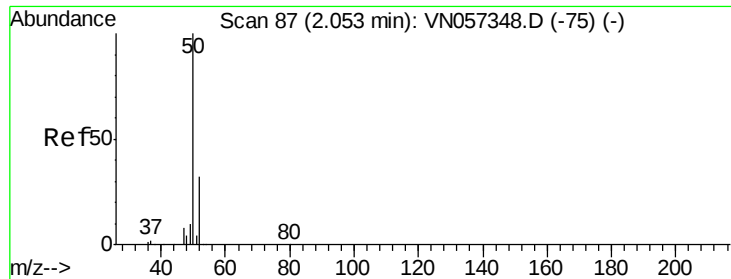
87 32.5 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 99.605 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

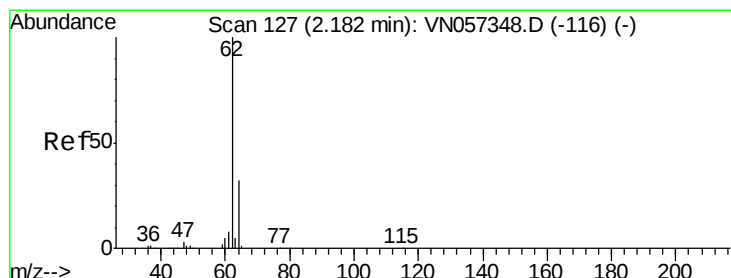
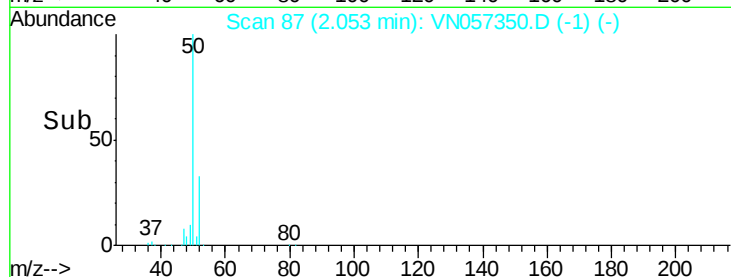
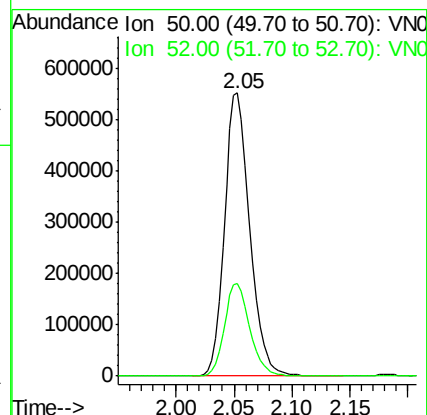
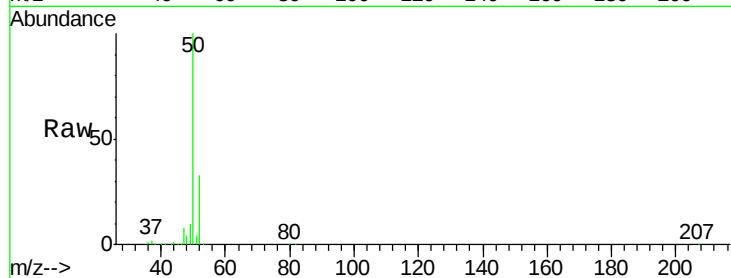
VSTDIC100

Tot Ion: 50 Resp: 839643

Ion Ratio Lower Upper

50 100

52 33.0 26.5 39.7



#4

Vinyl Chloride

Concen: 101.226 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN057350.D

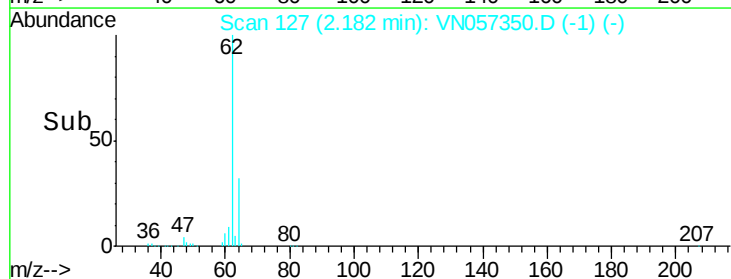
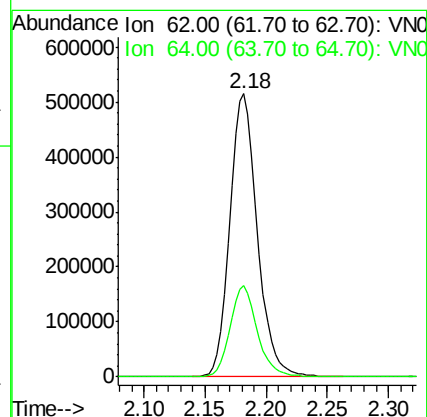
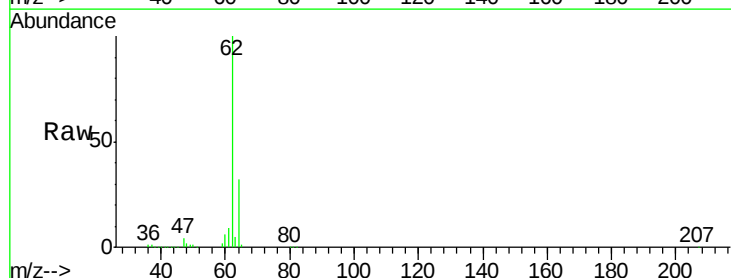
Acq: 16 Aug 2019 12:41

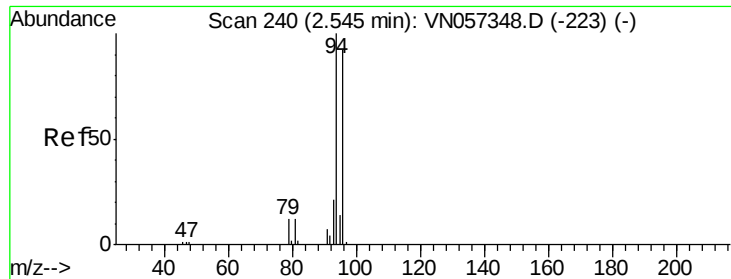
Tgt Ion: 62 Resp: 815152

Ion Ratio Lower Upper

62 100

64 32.1 25.0 37.4





#5

Bromomethane

Concen: 92.497 ug/l m

RT: 2.53 min Scan# 234

Delta R.T. -0.02 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

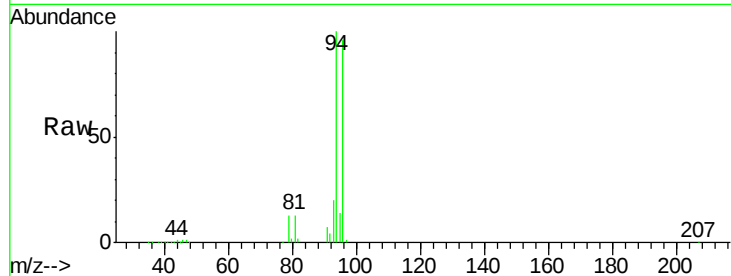
VSTDIC100

Tot Ion: 94 Resp: 613627

Ion Ratio Lower Upper

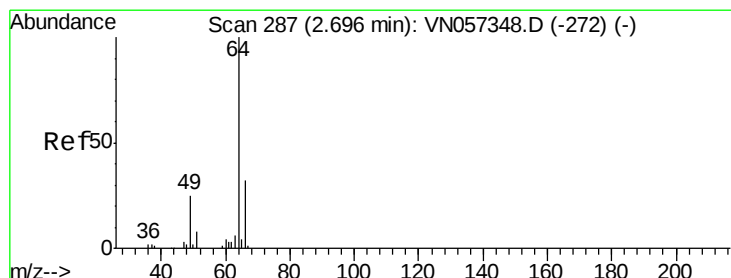
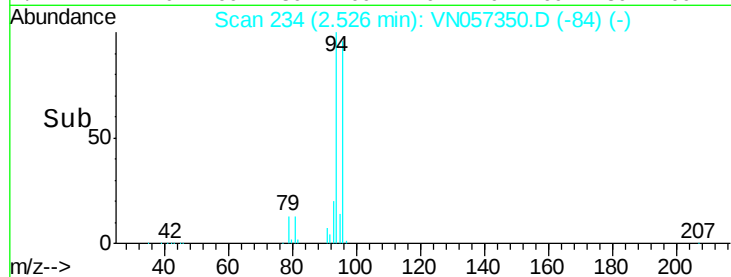
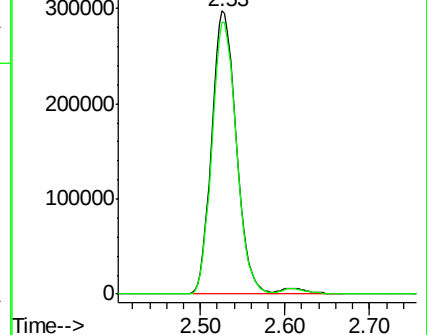
94 100

96 96.1 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 97.583 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.01 min

Lab File: VN057350.D

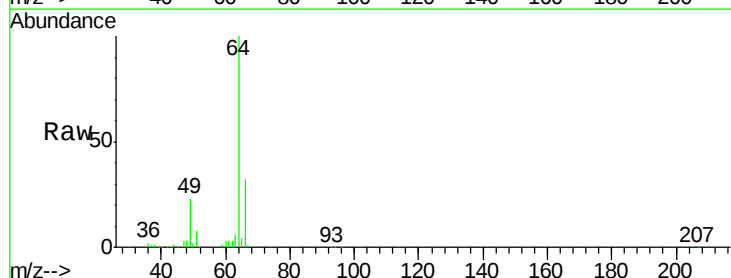
Acq: 16 Aug 2019 12:41

Tgt Ion: 64 Resp: 546666

Ion Ratio Lower Upper

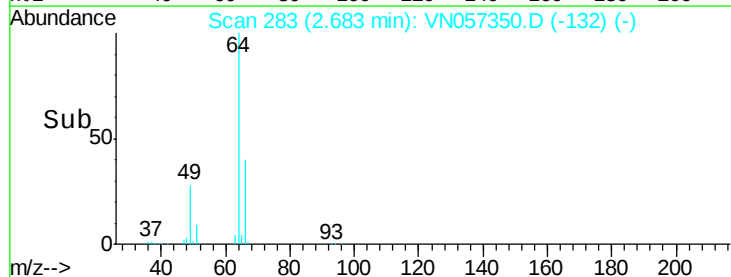
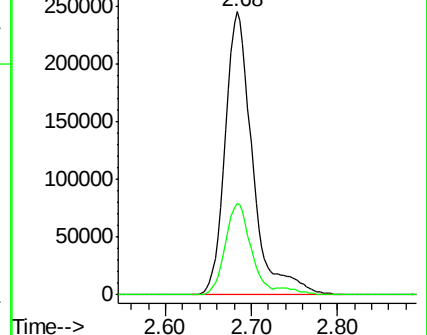
64 100

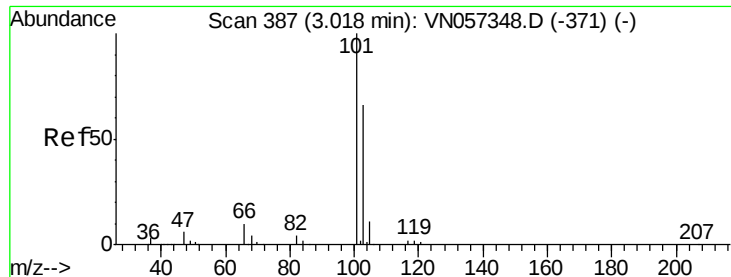
66 32.1 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



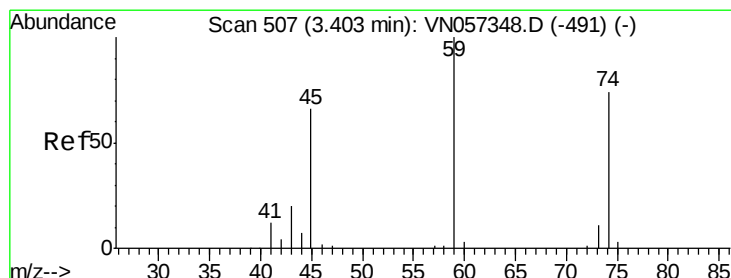
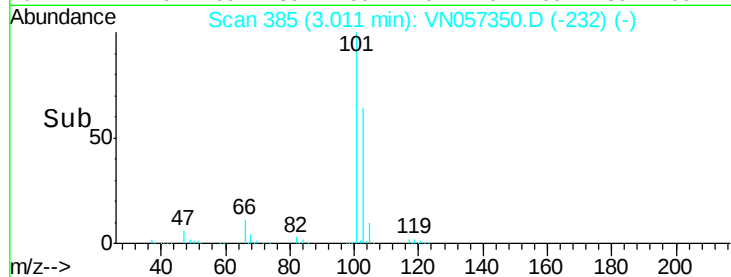
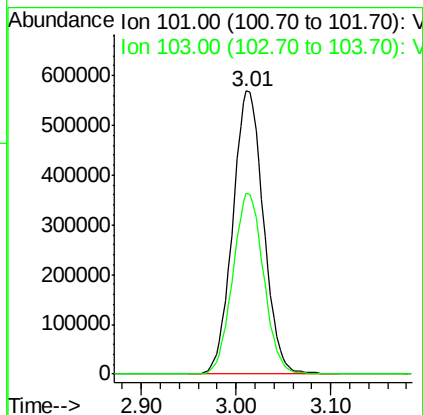
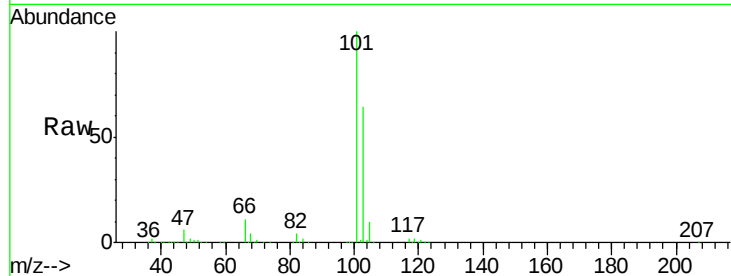


#7

Trichlorofluoromethane  
 Concen: 98.237 ug/l  
 RT: 3.01 min Scan# 385  
 Delta R.T. -0.01 min  
 Lab File: VN057350.D  
 Acq: 16 Aug 2019 12:41

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC100

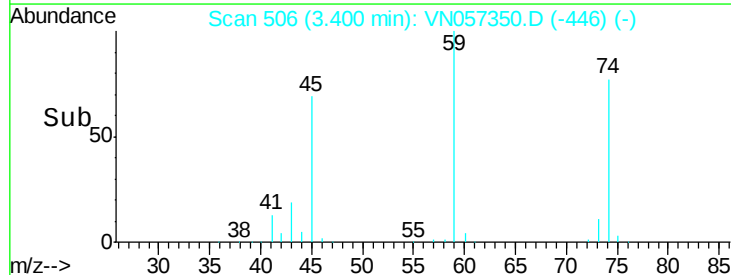
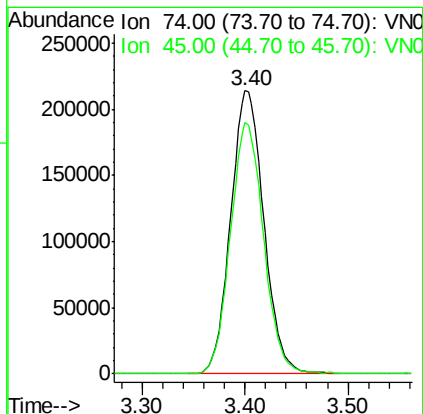
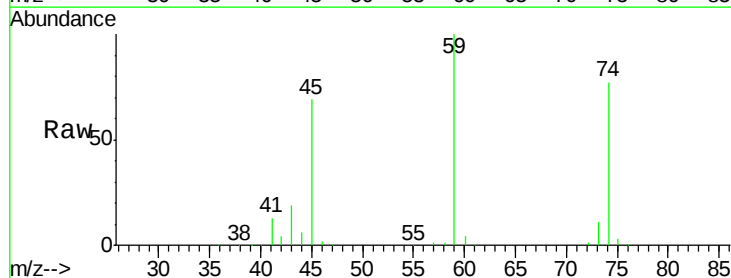
Tot Ion:101 Resp: 1287201  
 Ion Ratio Lower Upper  
 101 100  
 103 63.8 52.8 79.2

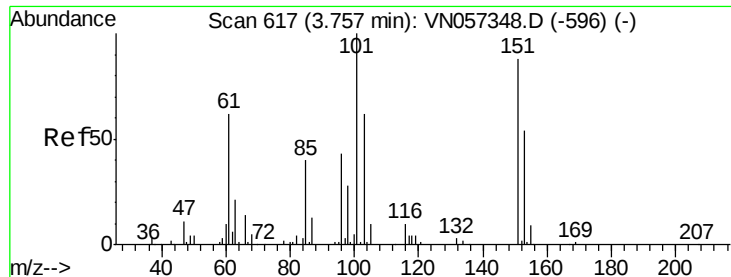


#8

Diethyl Ether  
 Concen: 101.140 ug/l  
 RT: 3.40 min Scan# 506  
 Delta R.T. -0.01 min  
 Lab File: VN057350.D  
 Acq: 16 Aug 2019 12:41

Tgt Ion: 74 Resp: 480087  
 Ion Ratio Lower Upper  
 74 100  
 45 88.6 19.9 179.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 94.440 ug/l

RT: 3.75 min Scan# 616

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

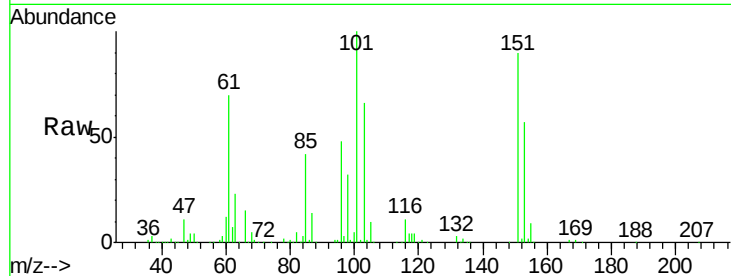
Tot Ion:101 Resp: 744192

Ion Ratio Lower Upper

101 100

85 41.4 0.0 84.2

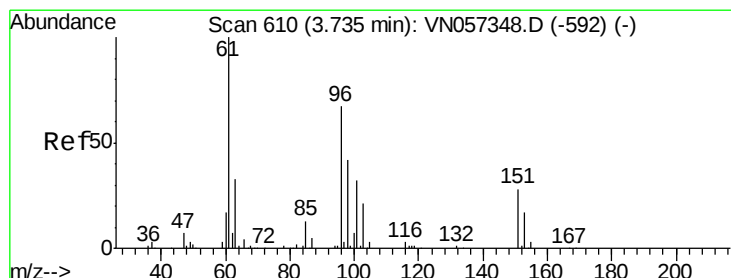
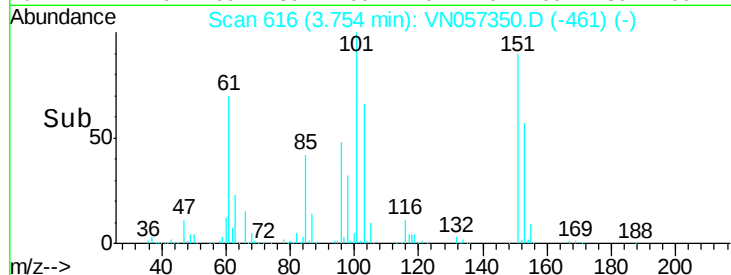
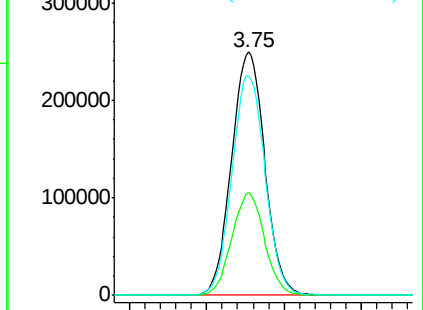
151 90.2 0.0 167.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 97.518 ug/l

RT: 3.73 min Scan# 609

Delta R.T. -0.01 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

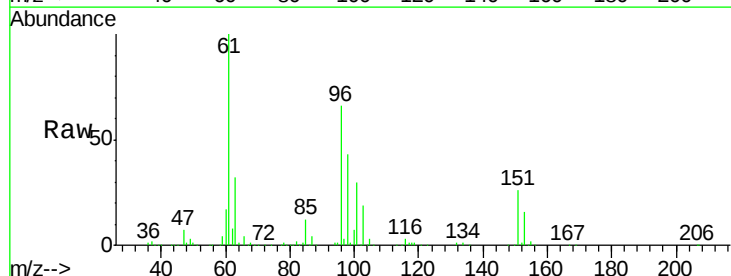
Tgt Ion: 96 Resp: 751902

Ion Ratio Lower Upper

96 100

61 150.4 129.0 193.4

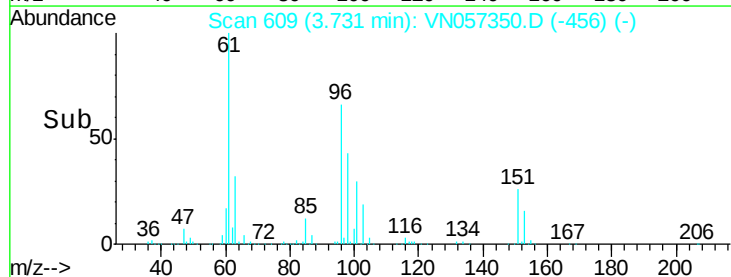
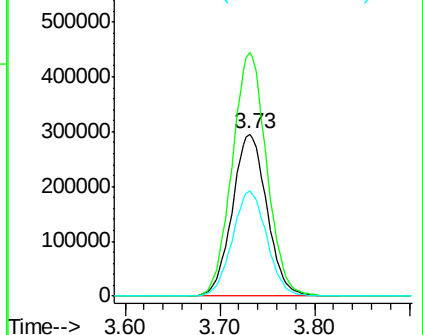
98 64.8 52.5 78.7

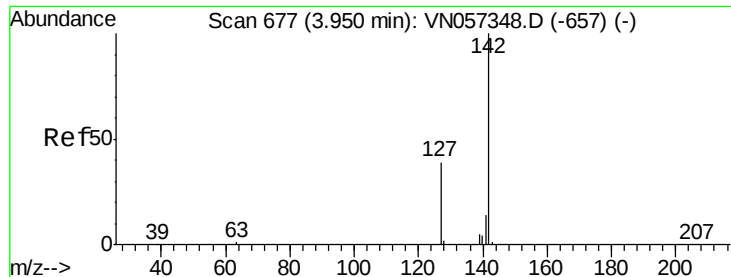


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

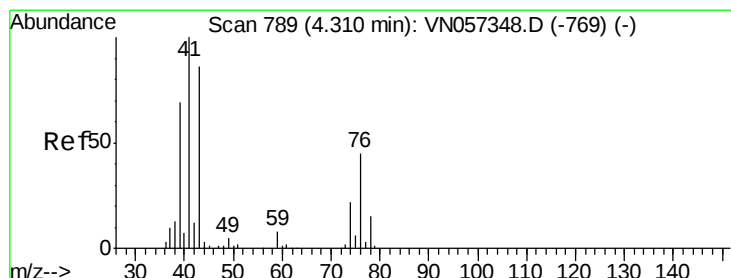
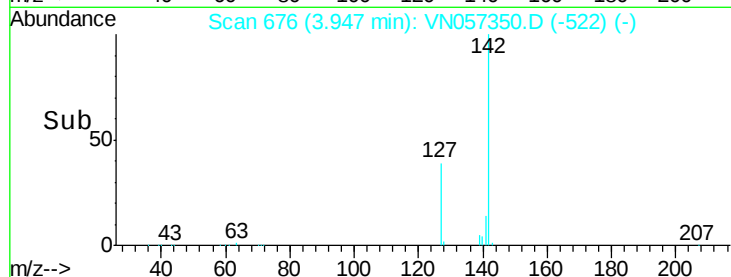
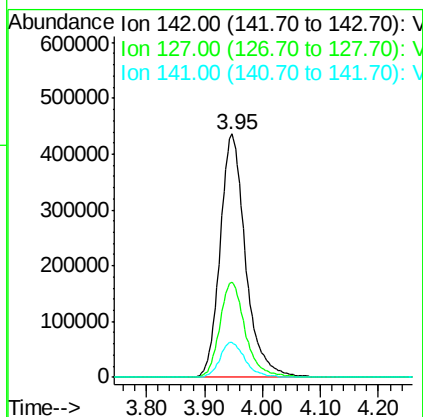
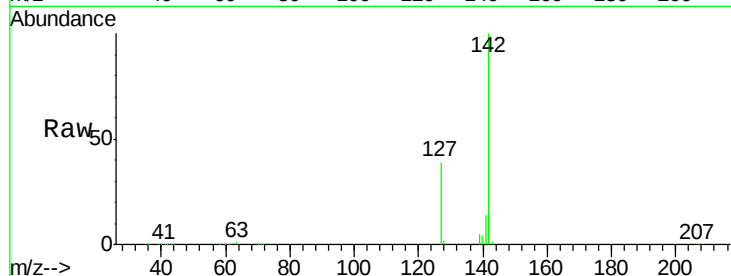




#11  
Methvl Iodide  
Concen: 104.532 ug/l  
RT: 3.95 min Scan# 676  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

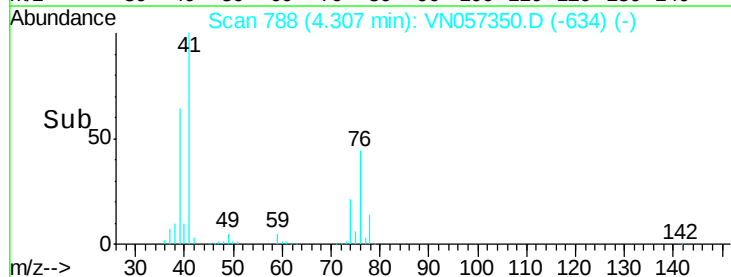
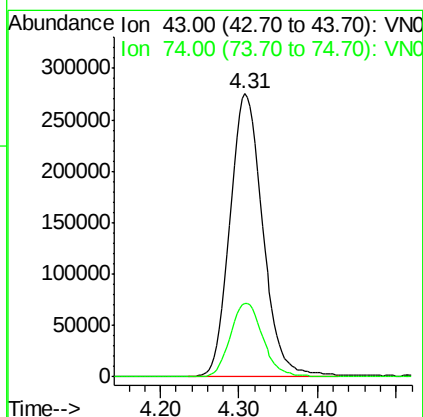
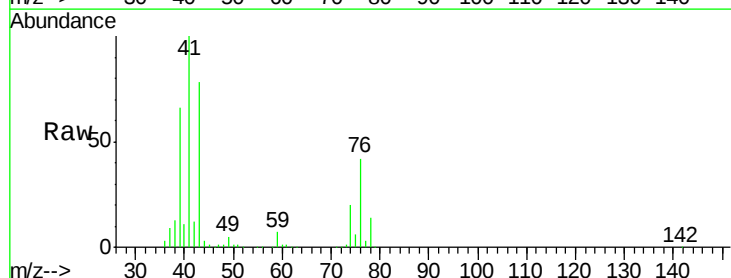
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

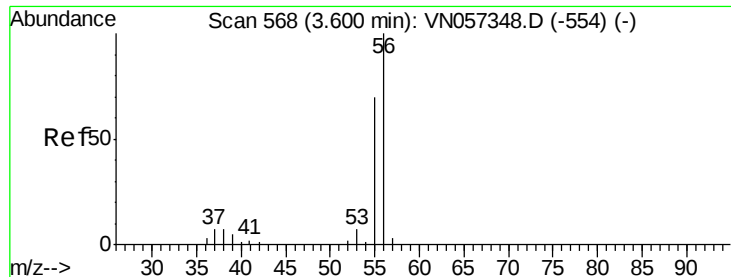
Tot Ion:142 Resp: 1324979  
Ion Ratio Lower Upper  
142 100  
127 39.1 19.5 58.5  
141 14.5 6.8 20.3



#12  
Methyl Acetate  
Concen: 87.976 ug/l  
RT: 4.31 min Scan# 788  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion: 43 Resp: 794549  
Ion Ratio Lower Upper  
43 100  
74 26.1 20.2 30.4





#13

Acrolein

Concen: 493.629 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

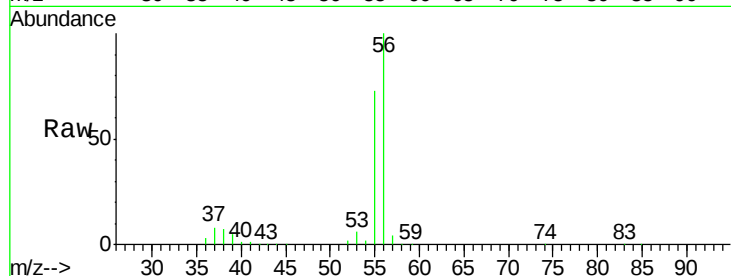
VSTDIC100

Tot Ion: 56 Resp: 402535

Ion Ratio Lower Upper

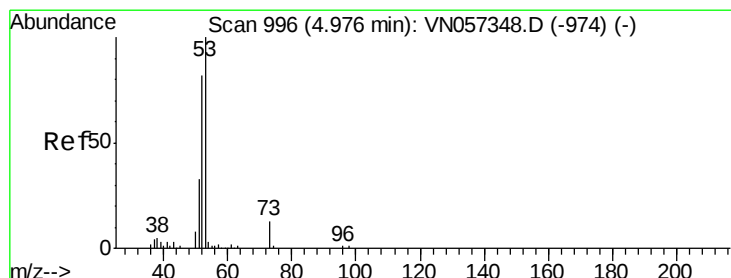
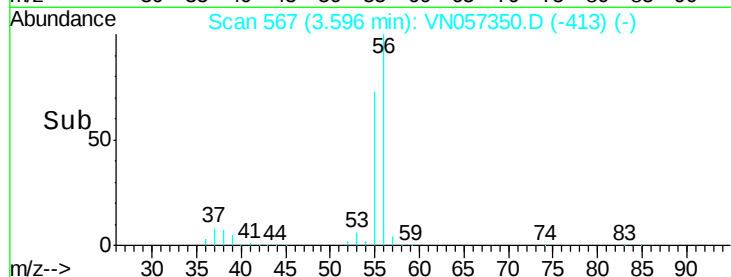
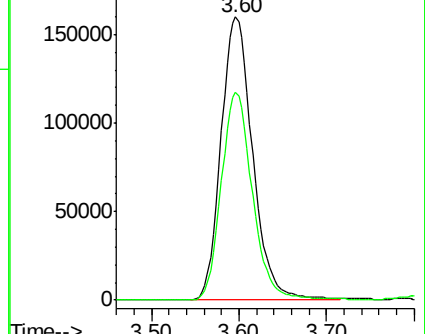
56 100

55 72.1 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Acrylonitrile

Concen: 514.535 ug/l

RT: 4.97 min Scan# 994

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

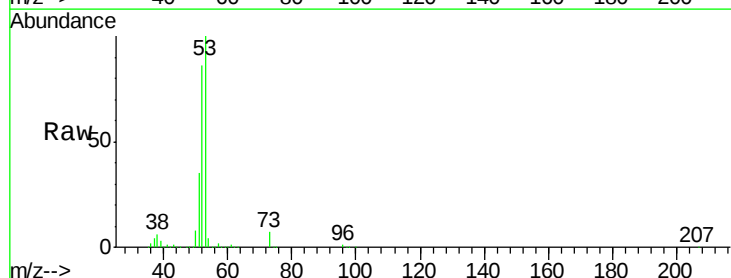
Tgt Ion: 53 Resp: 1769813

Ion Ratio Lower Upper

53 100

52 83.0 41.3 123.7

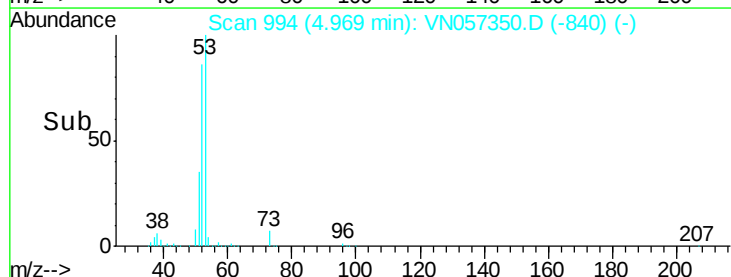
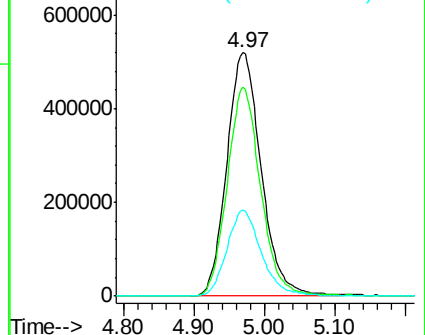
51 35.4 17.7 53.1

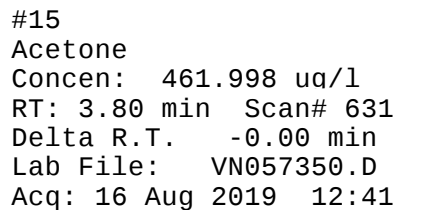


Abundance Ion 53.00 (52.70 to 53.70): VNO

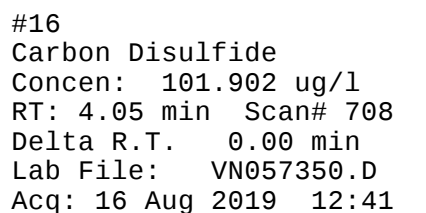
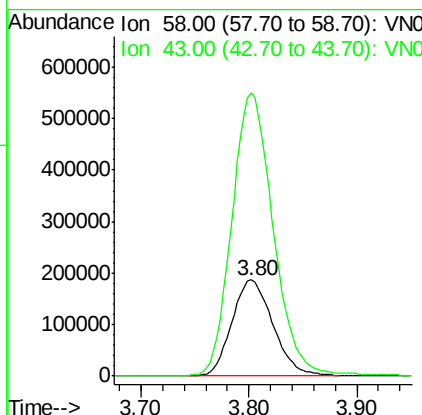
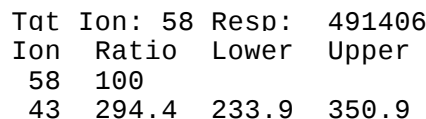
Ion 52.00 (51.70 to 52.70): VNO

Ion 51.00 (50.70 to 51.70): VNO

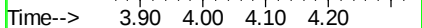
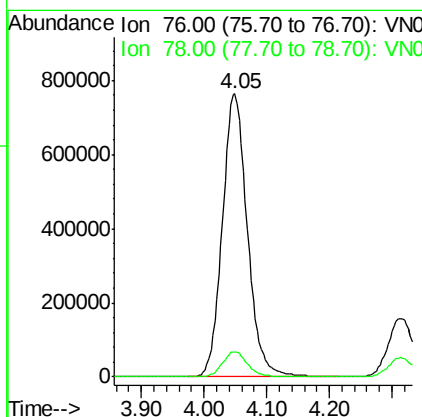


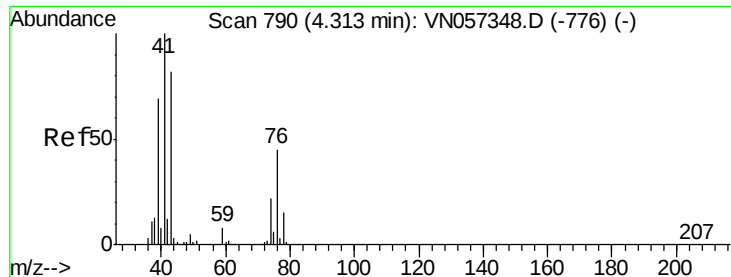


**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VSTDICC100



|     |         |               |       |
|-----|---------|---------------|-------|
| Tgt | Ion: 76 | Resp: 2113252 |       |
| Ion | Ratio   | Lower         | Upper |
| 76  | 100     |               |       |
| 78  | 8.9     | 7.4           | 11.0  |

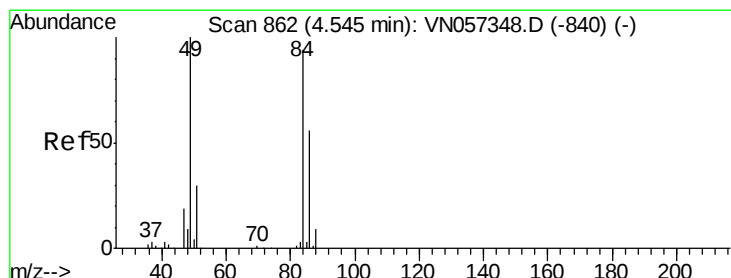
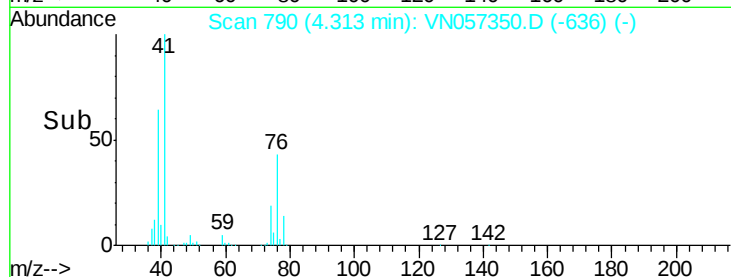
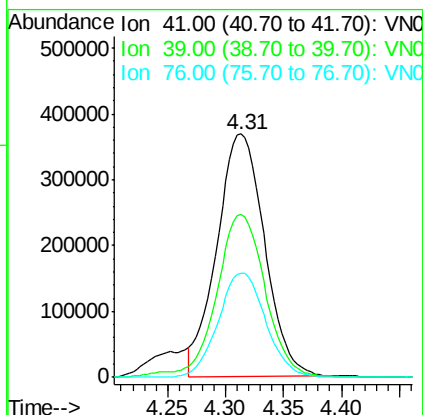
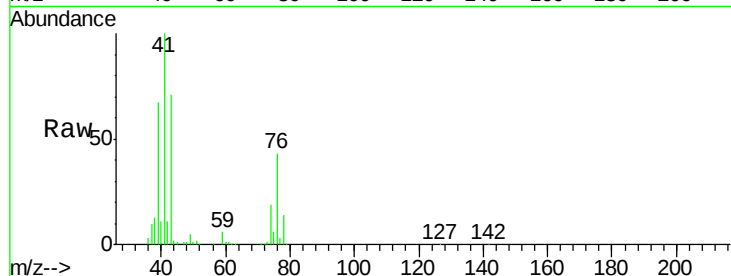




#17  
Allvl chloride  
Concen: 94.330 ug/l  
RT: 4.31 min Scan# 790  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

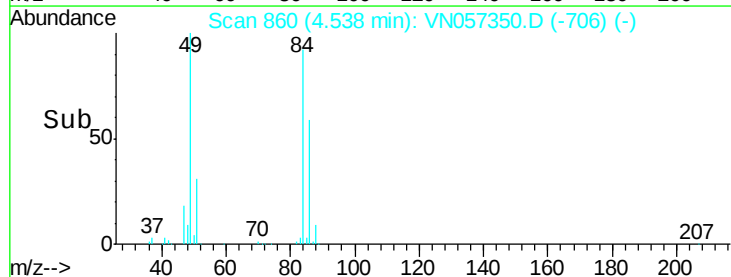
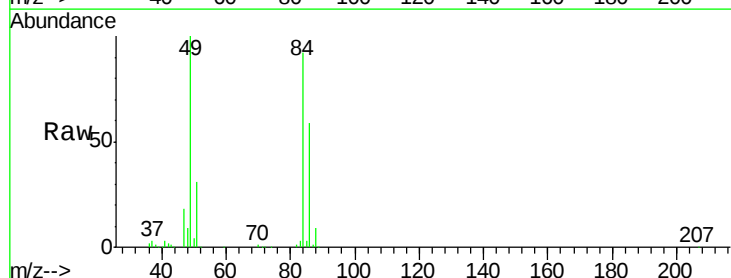
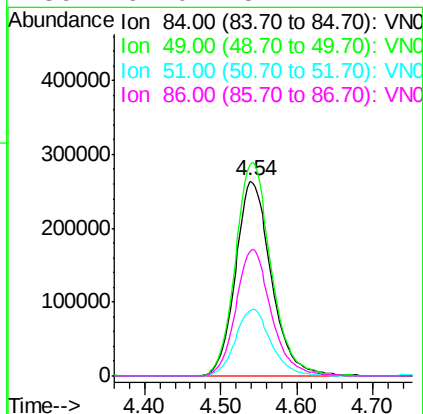
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

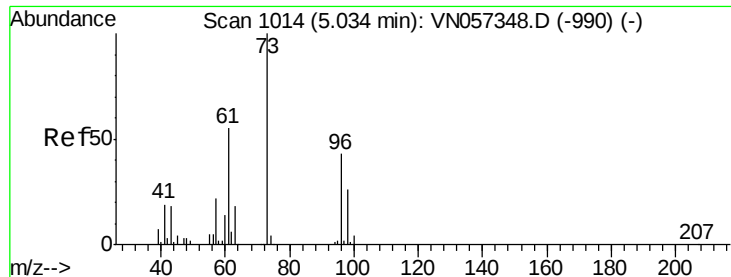
Tot Ion: 41 Resp: 1053870  
Ion Ratio Lower Upper  
41 100  
39 67.0 32.8 98.4  
76 42.6 18.5 55.5



#18  
Methylene Chloride  
Concen: 97.155 ug/l  
RT: 4.54 min Scan# 860  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion: 84 Resp: 861542  
Ion Ratio Lower Upper  
84 100  
49 108.3 93.9 140.9  
51 33.3 31.7 47.5  
86 64.0 51.4 77.2

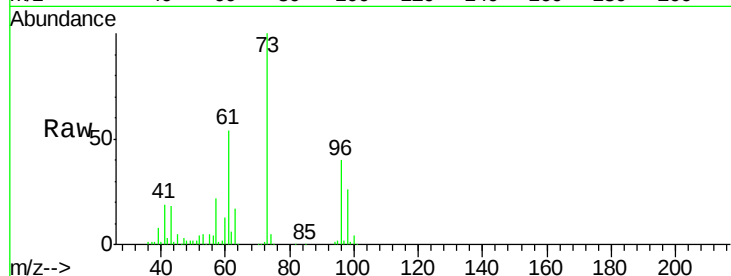




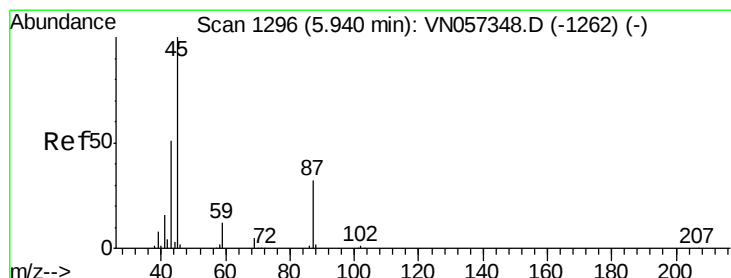
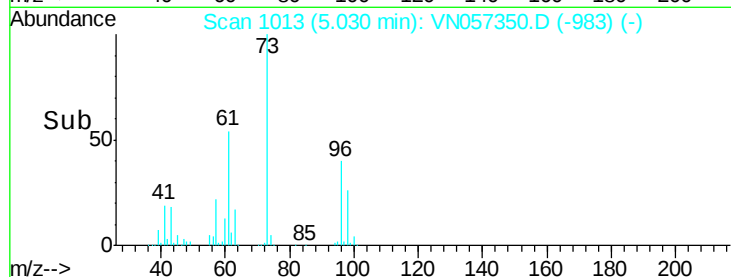
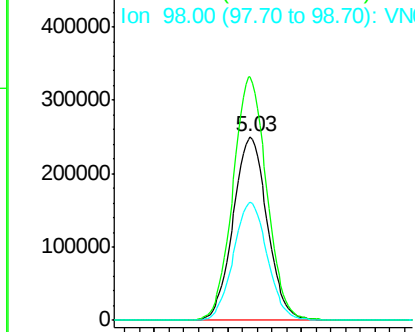
#19  
trans-1,2-Dichloroethene  
Concen: 95.479 ug/l  
RT: 5.03 min Scan# 1013  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

Tot Ion: 96 Resp: 806062  
Ion Ratio Lower Upper  
96 100  
61 132.4 109.6 164.4  
98 64.3 51.4 77.2

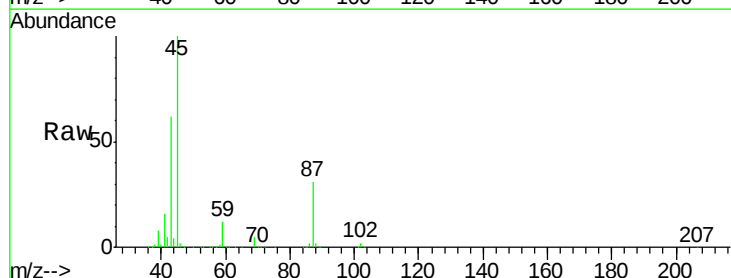


Abundance Ion 96.00 (95.70 to 96.70): VN0  
Ion 61.00 (60.70 to 61.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

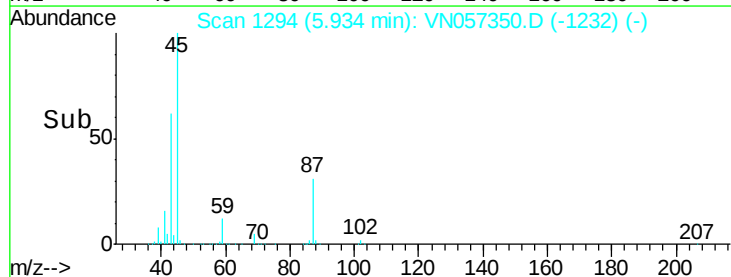
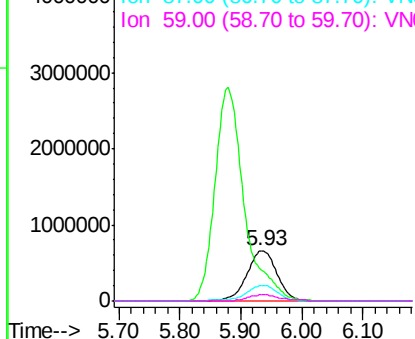


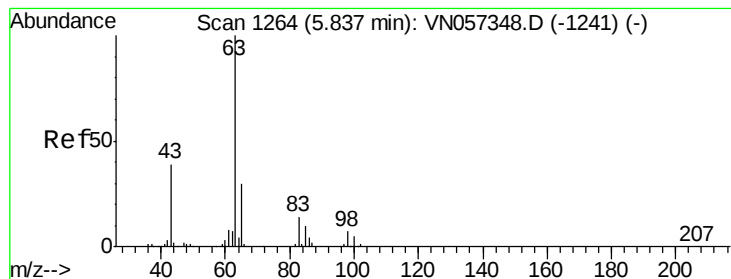
#20  
Diisopropyl ether  
Concen: 95.549 ug/l  
RT: 5.93 min Scan# 1294  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion: 45 Resp: 2264057  
Ion Ratio Lower Upper  
45 100  
43 61.3 50.3 75.5  
87 31.1 21.4 32.0  
59 12.3 9.7 14.5



Abundance Ion 45.00 (44.70 to 45.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 87.00 (86.70 to 87.70): VN0  
Ion 59.00 (58.70 to 59.70): VN0





#21

1,1-Dichloroethane

Concen: 97.639 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

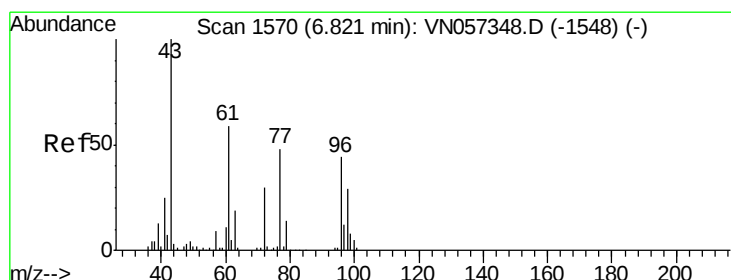
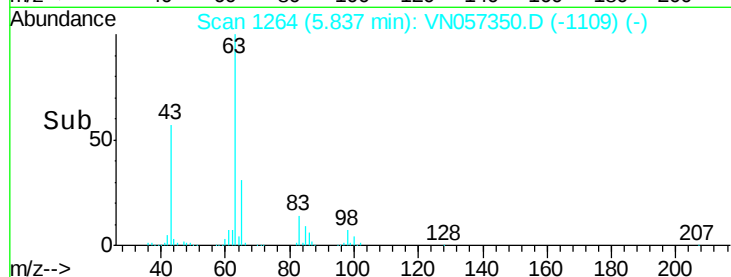
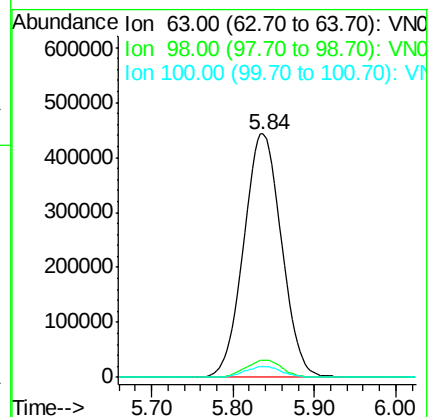
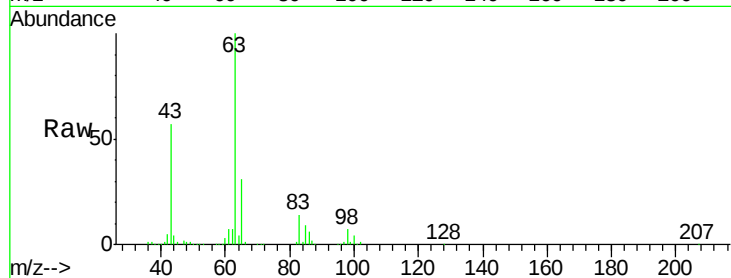
Tot Ion: 63 Resp: 1420938

Ion Ratio Lower Upper

63 100

98 6.9 3.3 9.8

100 4.3 2.1 6.3



#22

cis-1,2-Dichloroethene

Concen: 95.735 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

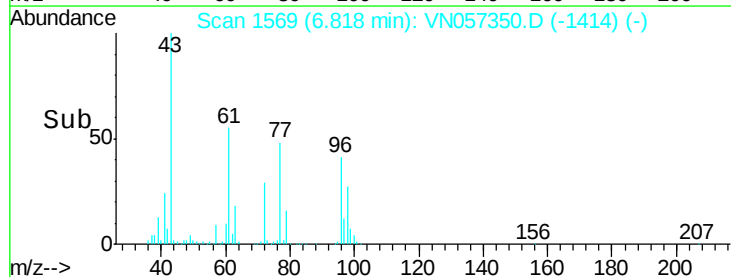
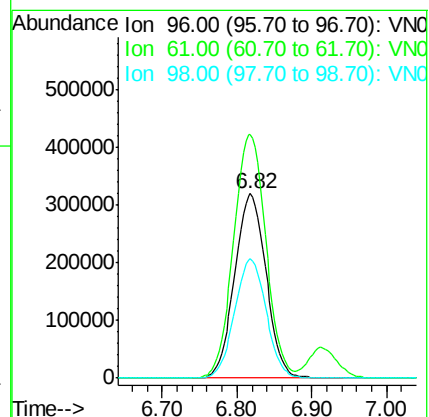
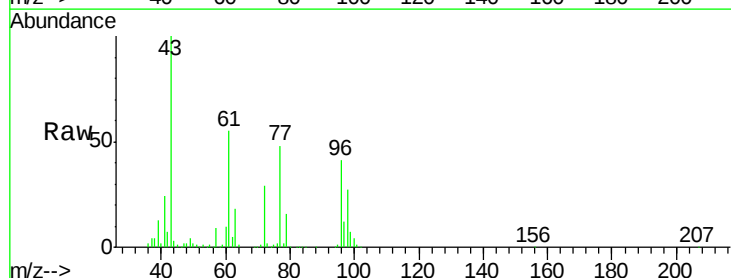
Tgt Ion: 96 Resp: 934519

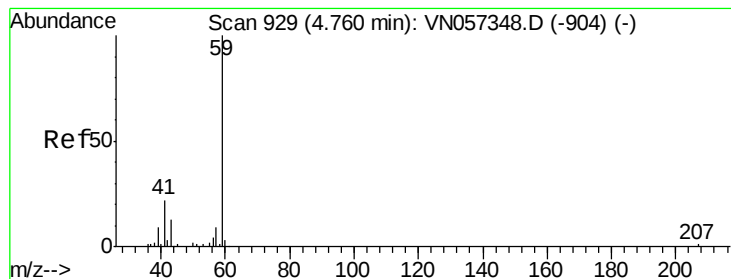
Ion Ratio Lower Upper

96 100

61 135.9 112.1 168.1

98 64.9 52.2 78.2





#23

tert-Butyl Alcohol

Concen: 525.813 ug/l

RT: 4.76 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

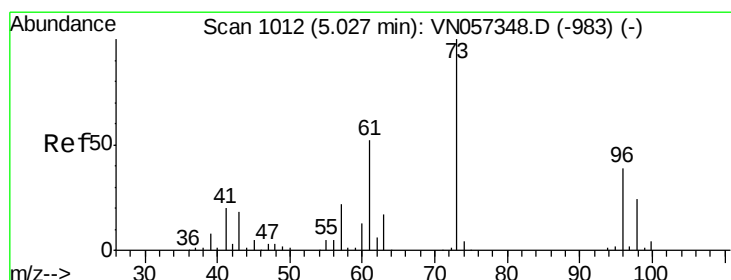
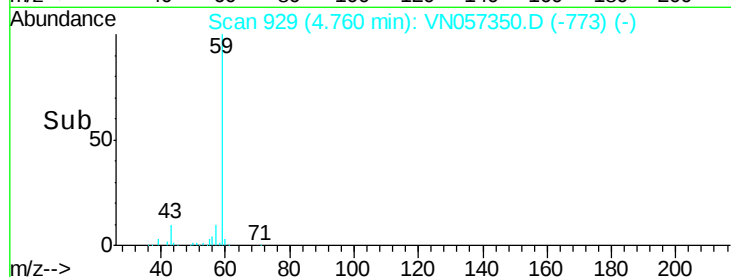
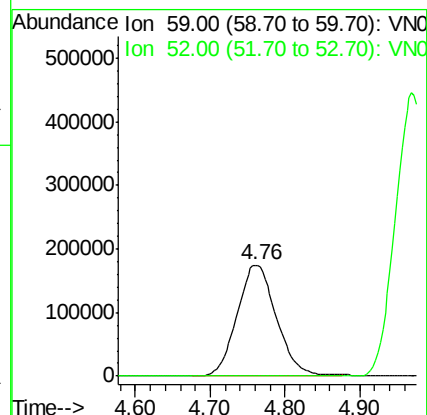
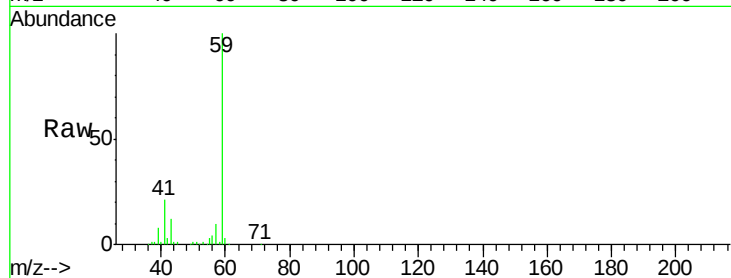
VSTDIC100

Tot Ion: 59 Resp: 639385

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



#24

Methyl tert-Butyl Ether

Concen: 98.948 ug/l

RT: 5.03 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VN057350.D

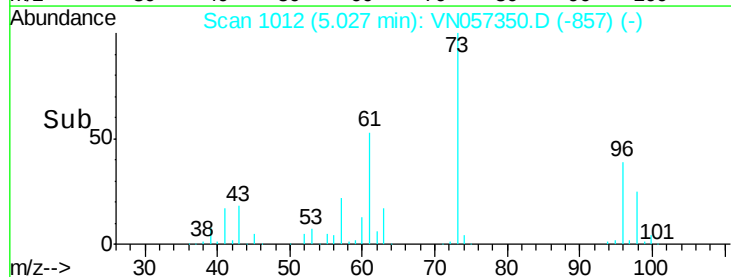
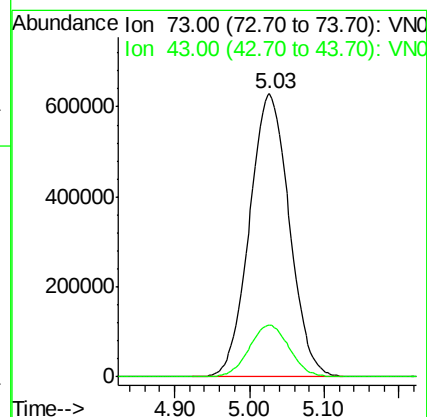
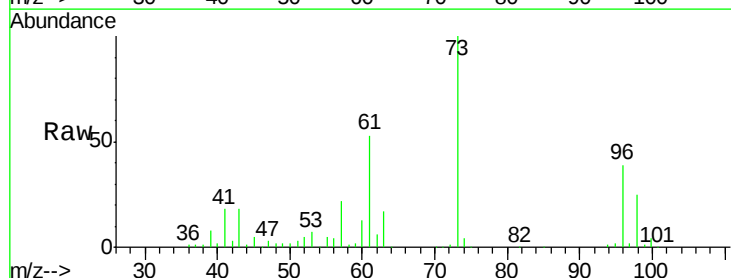
Acq: 16 Aug 2019 12:41

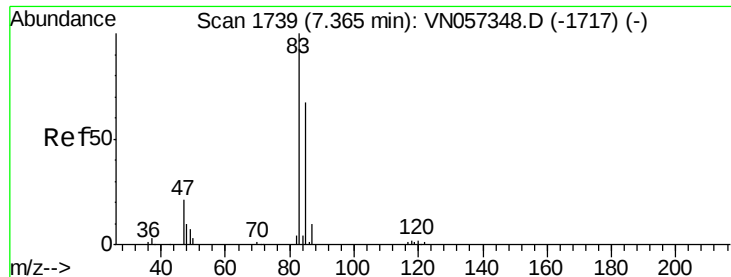
Tgt Ion: 73 Resp: 2330543

Ion Ratio Lower Upper

73 100

43 18.3 15.1 22.7





#25

Chloroform

Concen: 95.567 ug/l

RT: 7.36 min Scan# 1739

Delta R.T. 0.01 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

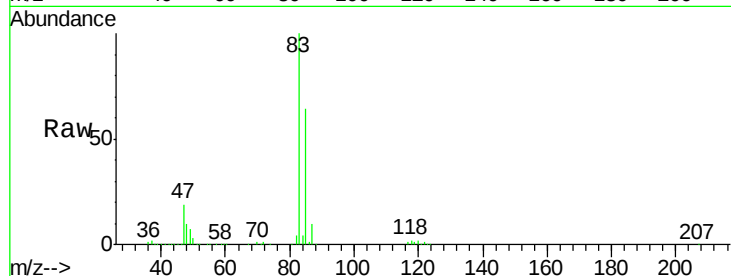
VSTDIC100

Tot Ion: 83 Resp: 1463836

Ion Ratio Lower Upper

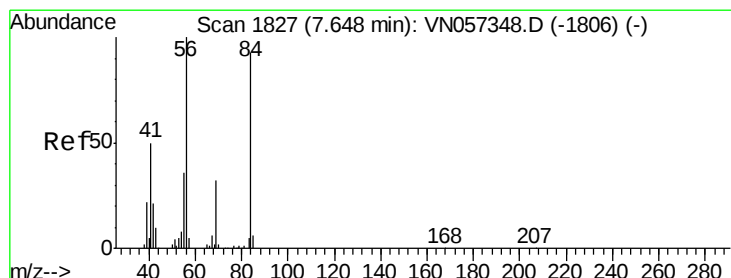
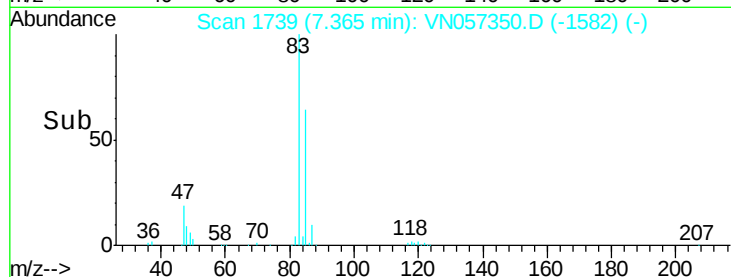
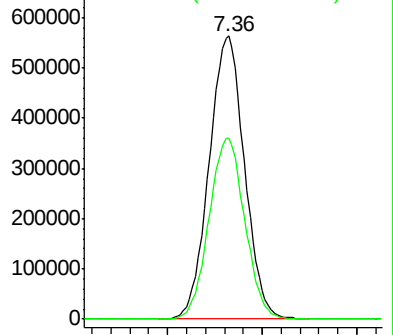
83 100

85 64.1 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#26

Cyclohexane

Concen: 98.896 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

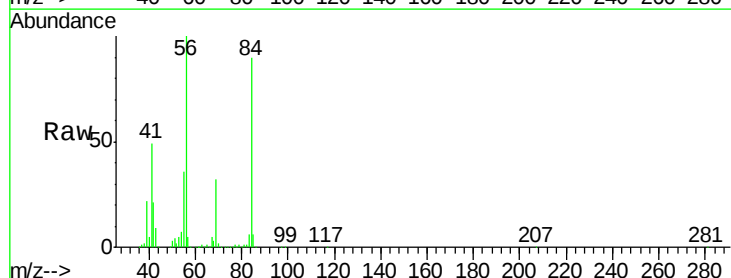
Tgt Ion: 56 Resp: 1188440

Ion Ratio Lower Upper

56 100

89 0.0 1.4 2.2#

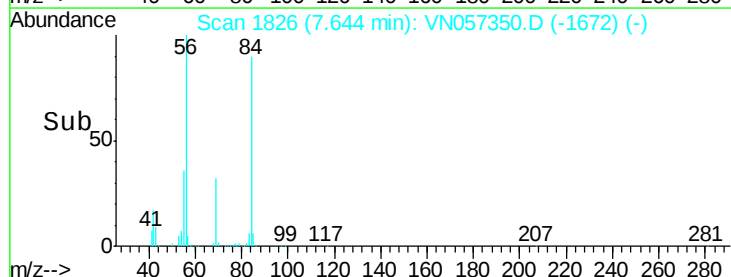
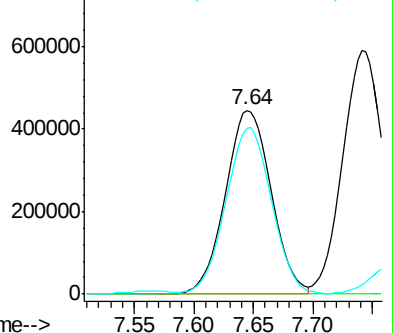
84 89.5 68.2 102.4

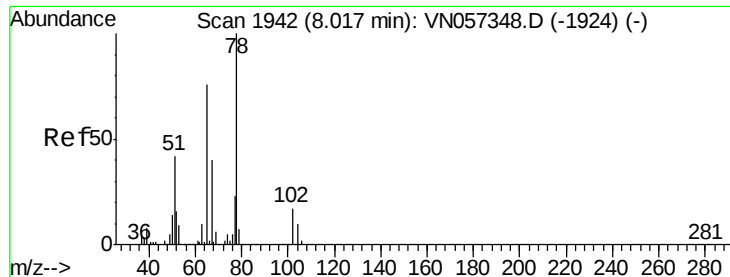


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 30.421 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

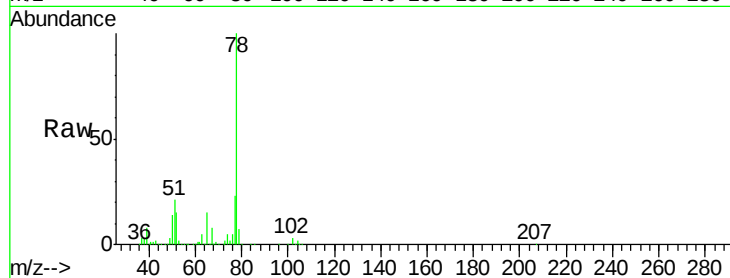
VSTDIC100

Tot Ion: 65 Resp: 278489

Ion Ratio Lower Upper

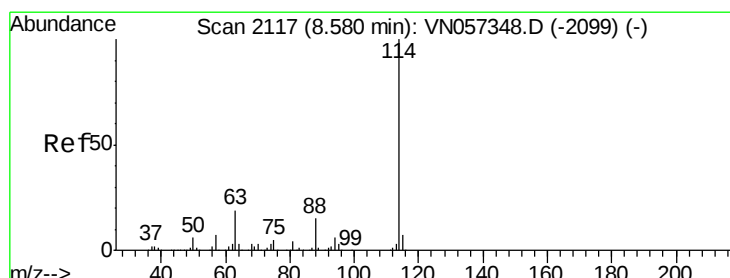
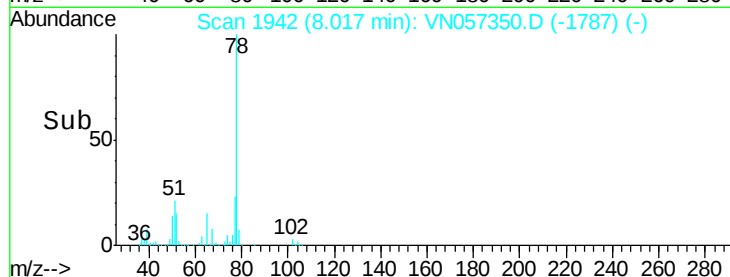
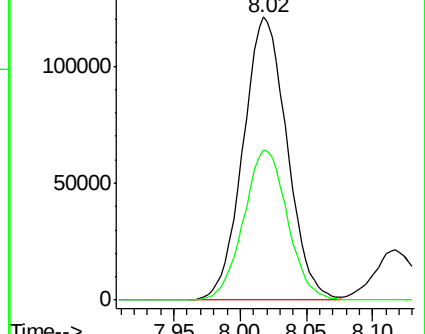
65 100

67 53.0 43.4 65.0



Abundance Ion 65.00 (64.70 to 65.70): VN057348.D (-1924) (-)

Ion 67.00 (66.70 to 67.70): VN057348.D (-1924) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

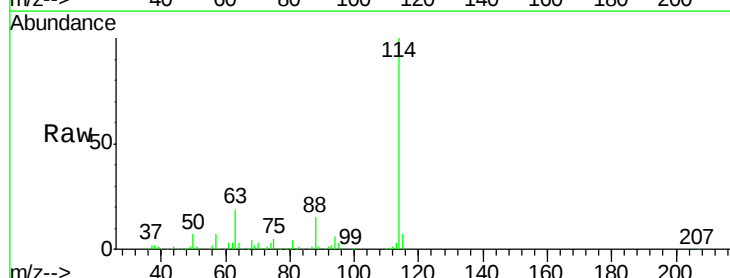
Tgt Ion: 114 Resp: 786726

Ion Ratio Lower Upper

114 100

63 18.2 16.2 24.2

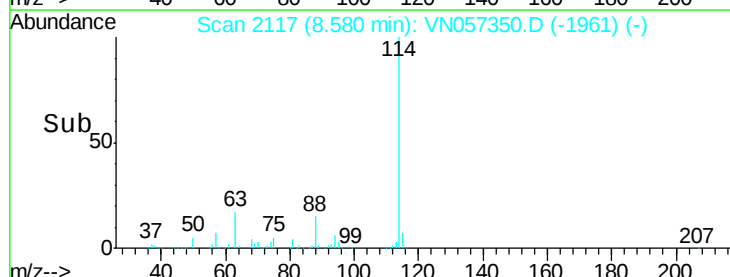
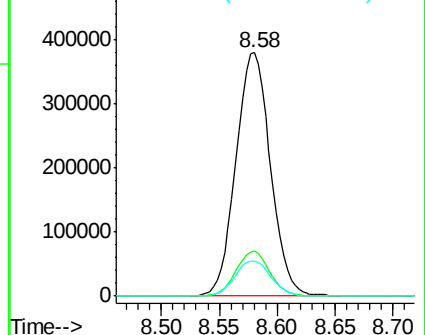
88 15.1 12.3 18.5

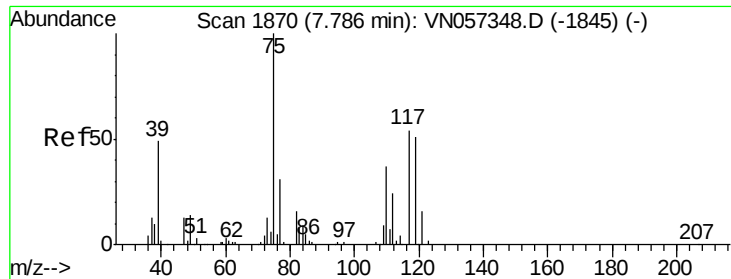


Abundance Ion 114.00 (113.70 to 114.70): VN057348.D (-2099) (-)

Ion 63.00 (62.70 to 63.70): VN057348.D (-2099) (-)

Ion 88.00 (87.70 to 88.70): VN057348.D (-2099) (-)





#29

1,1-Dichloropropene

Concen: 96.027 ug/l

RT: 7.79 min Scan# 1870

Delta R.T. 0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampled :

VSTDIC100

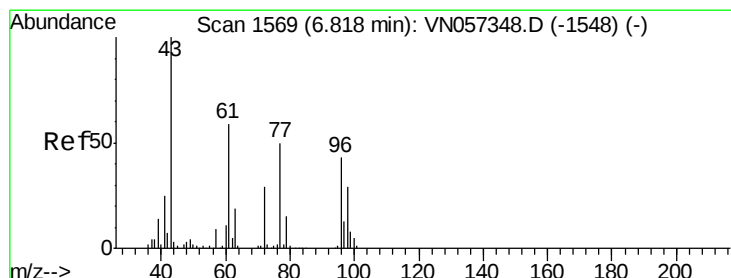
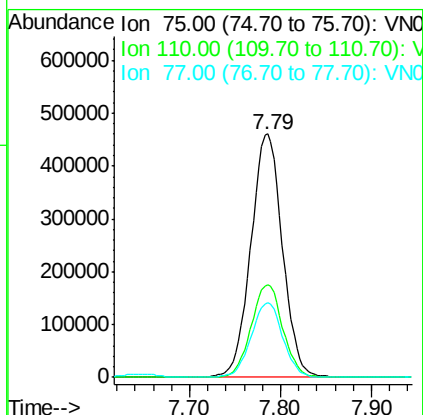
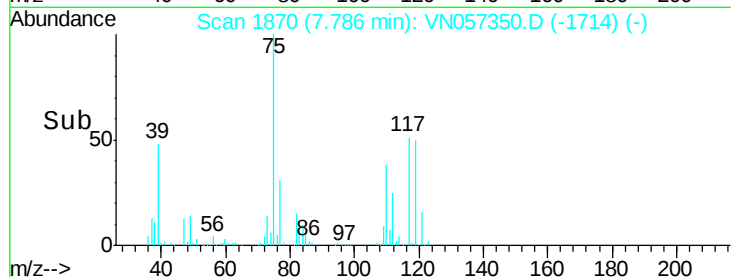
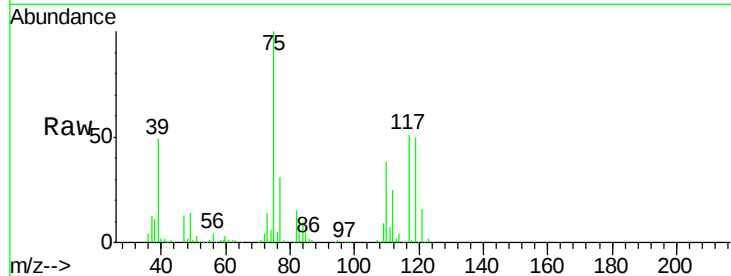
Tot Ion: 75 Resp: 1109057

Ion Ratio Lower Upper

75 100

110 38.1 0.0 72.4

77 30.8 0.0 62.2



#30

2-Butanone

Concen: 485.988 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

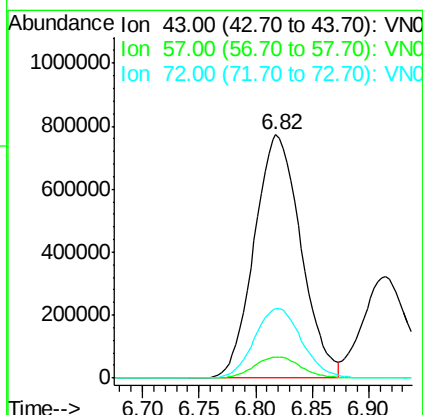
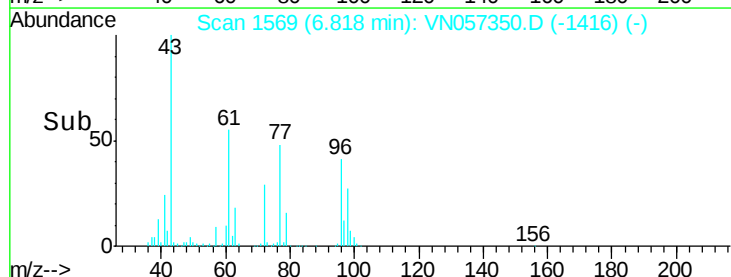
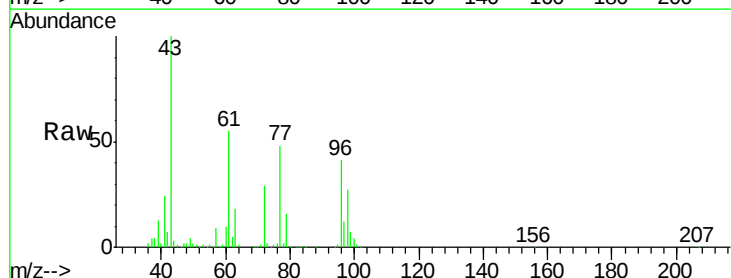
Tgt Ion: 43 Resp: 2208966

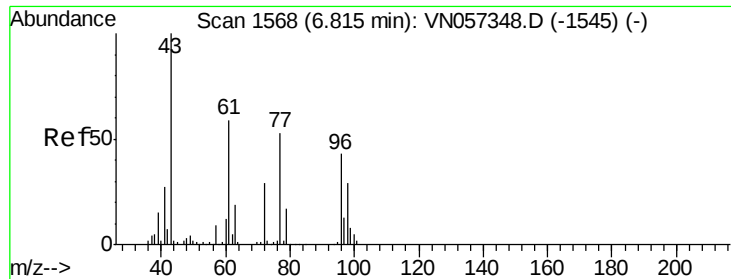
Ion Ratio Lower Upper

43 100

57 8.8 6.6 10.0

72 29.2 21.3 31.9





#31

2,2-Dichloropropane

Concen: 95.815 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

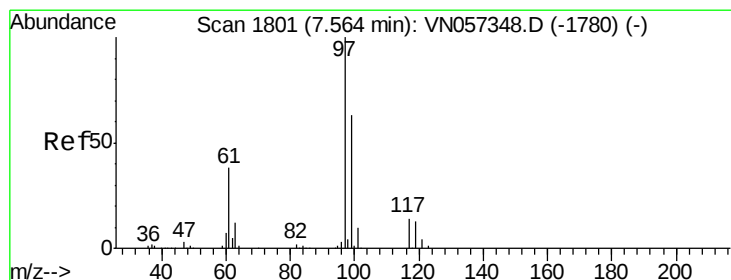
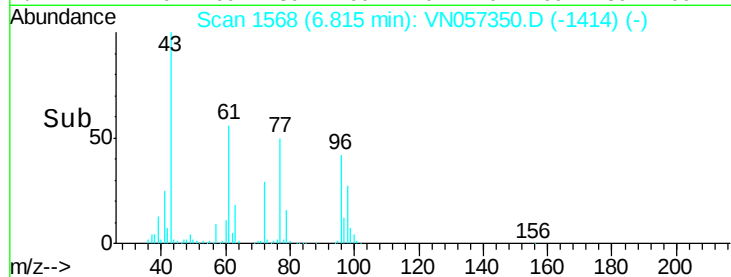
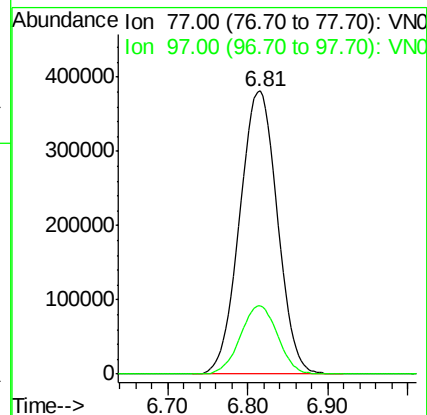
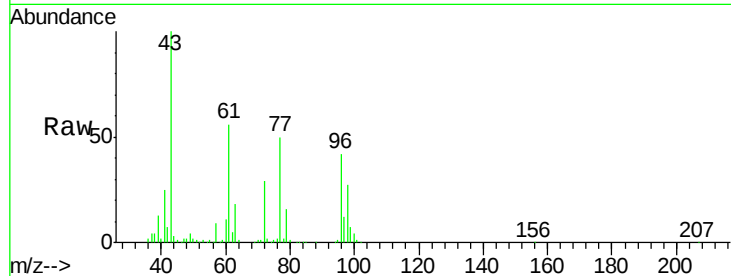
VSTDIC100

Tot Ion: 77 Resp: 1218730

Ion Ratio Lower Upper

77 100

97 23.9 19.7 29.5



#32

1,1,1-Trichloroethane

Concen: 97.432 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

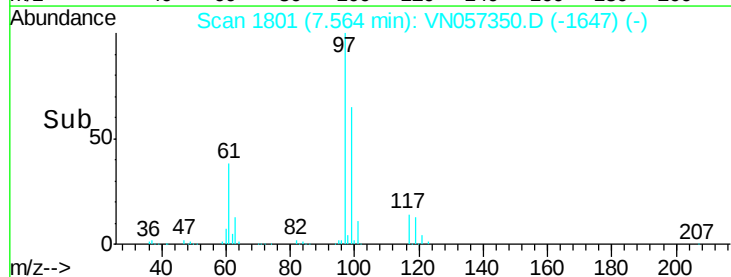
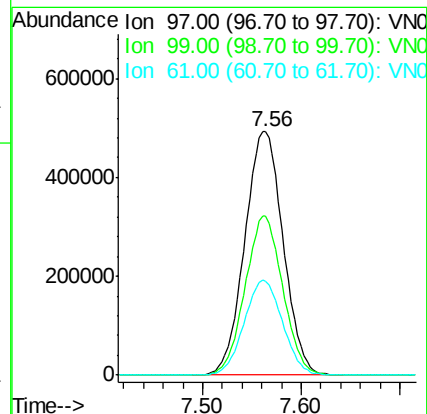
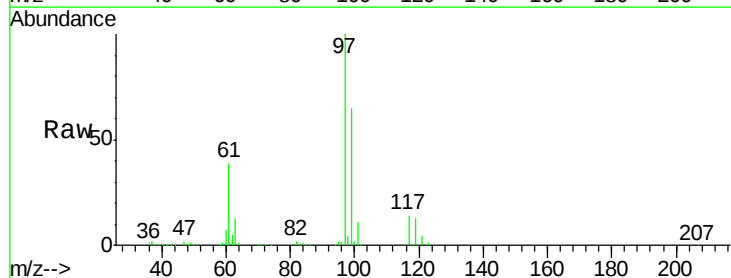
Tgt Ion: 97 Resp: 1325101

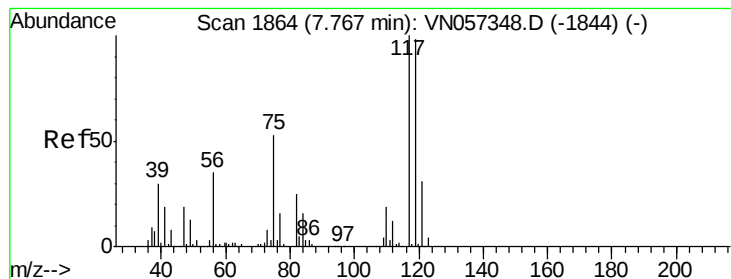
Ion Ratio Lower Upper

97 100

99 64.2 52.0 78.0

61 39.0 34.4 51.6





#33

Carbon Tetrachloride

Concen: 98.552 ug/l

RT: 7.77 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

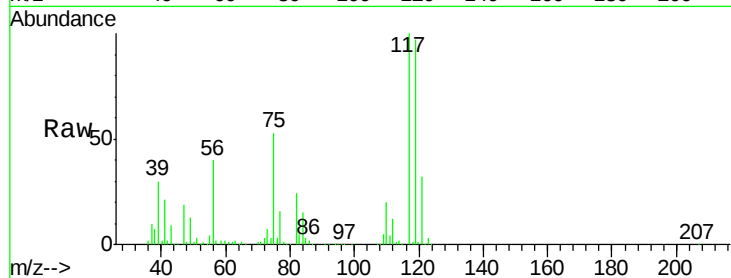
Tot Ion:117 Resp: 1186055

Ion Ratio Lower Upper

117 100

119 97.1 78.7 118.1

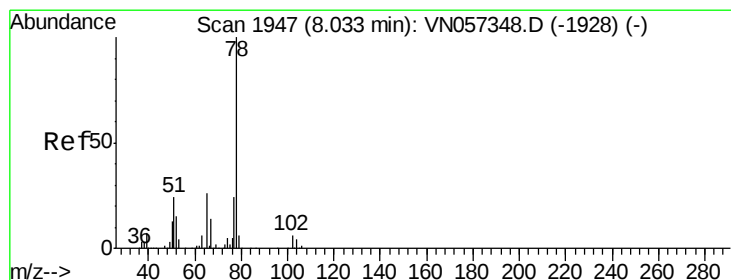
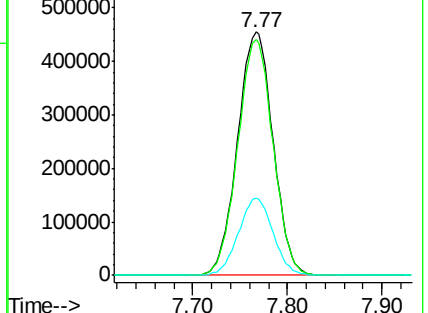
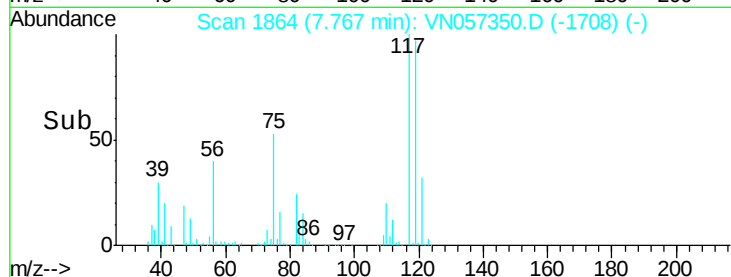
121 31.7 24.0 36.0



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: 95.073 ug/l

RT: 8.03 min Scan# 1947

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

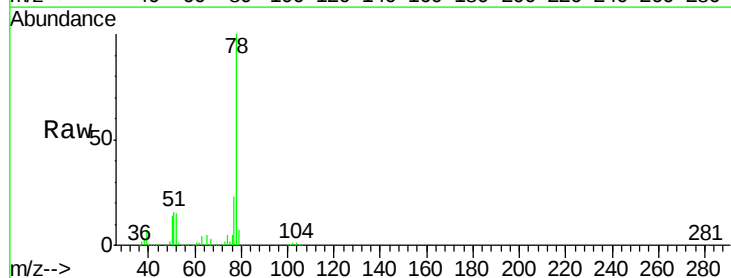
Tgt Ion: 78 Resp: 3345251

Ion Ratio Lower Upper

78 100

77 23.3 19.0 28.4

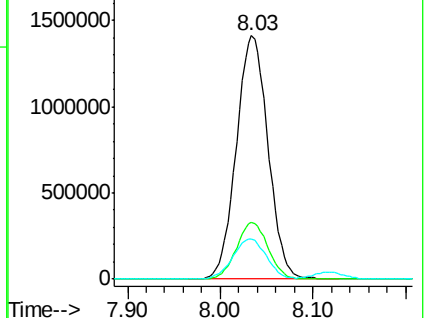
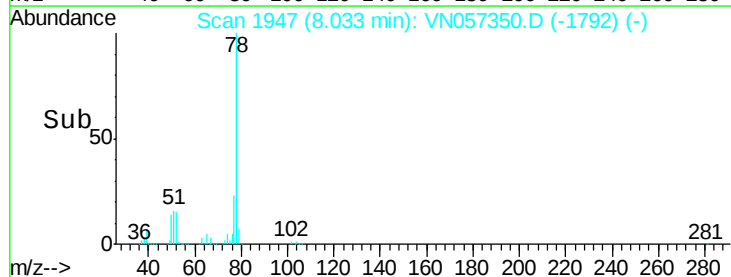
51 16.4 19.7 29.5#

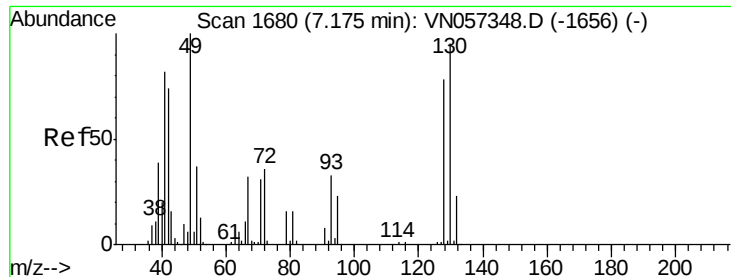


Abundance Ion 78.10 (77.80 to 78.80): VNO

Ion 77.00 (76.70 to 77.70): VNO

Ion 51.00 (50.70 to 51.70): VNO

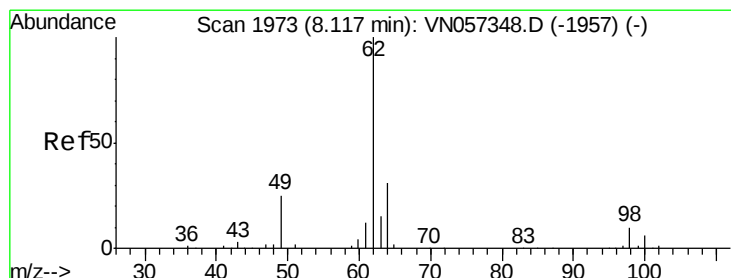
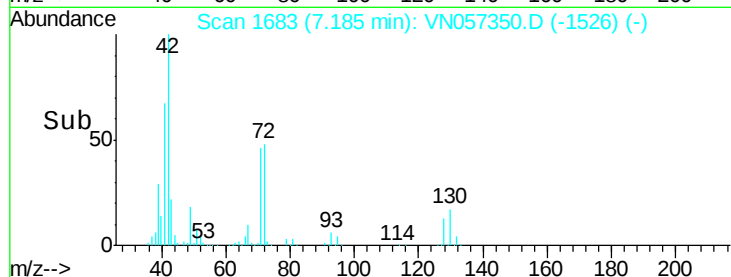
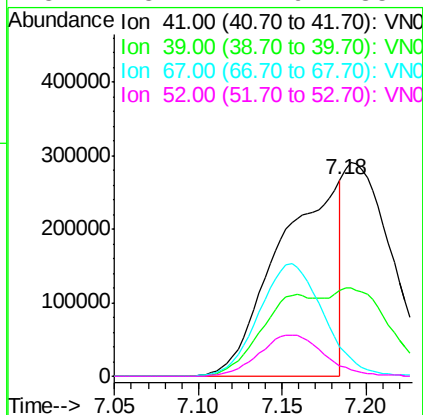
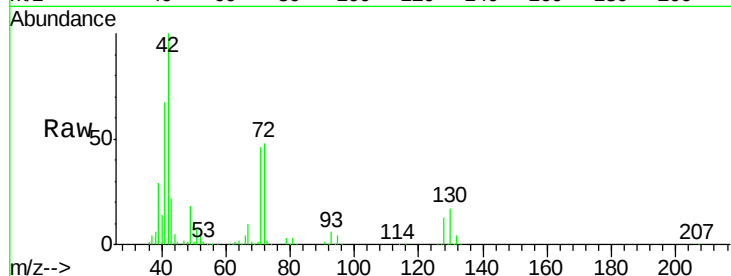




#35  
Methacrylonitrile  
Concen: 120.272 ug/l m  
RT: 7.18 min Scan# 1683  
Delta R.T. 0.01 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

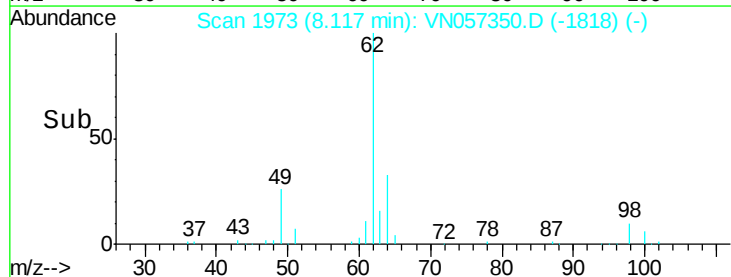
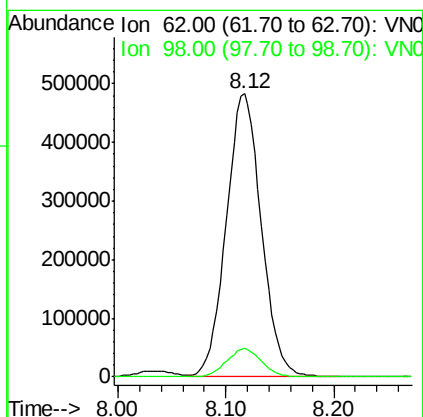
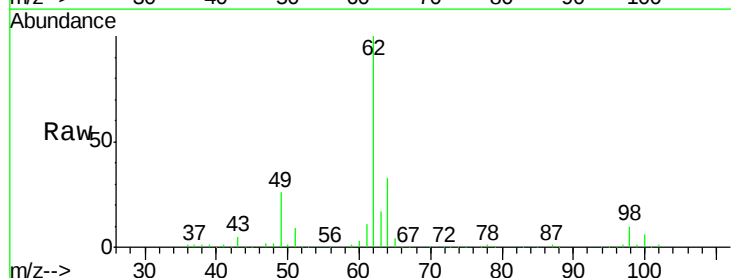
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

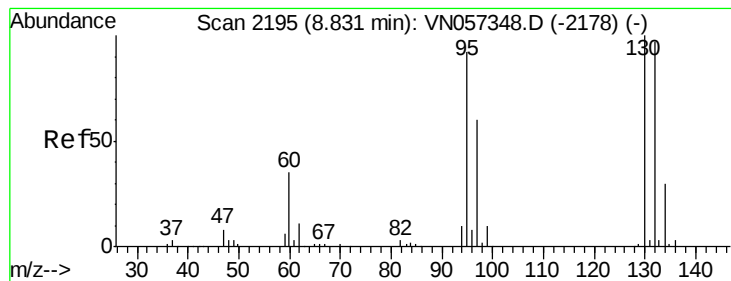
Tot Ion: 41 Resp: 692246  
Ion Ratio Lower Upper  
41 100  
39 43.4 25.4 76.2  
67 15.3 33.6 100.8#  
52 5.4 12.9 38.7#



#36  
1,2-Dichloroethane  
Concen: 94.752 ug/l  
RT: 8.12 min Scan# 1973  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion: 62 Resp: 1086585  
Ion Ratio Lower Upper  
62 100  
98 10.0 7.7 11.5





#37

Trichloroethene

Concen: 94.249 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

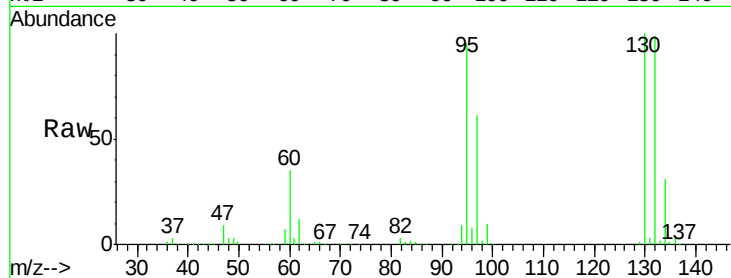
VSTDIC100

Tot Ion:130 Resp: 968219

Ion Ratio Lower Upper

130 100

95 94.5 78.4 117.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.83

500000

400000

300000

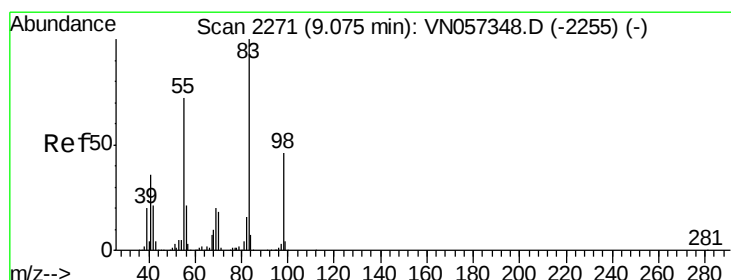
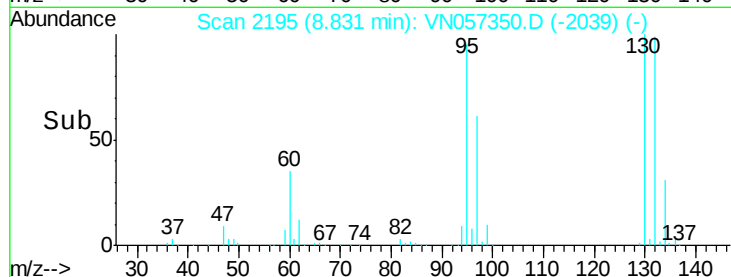
200000

100000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 97.237 ug/l

RT: 9.08 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

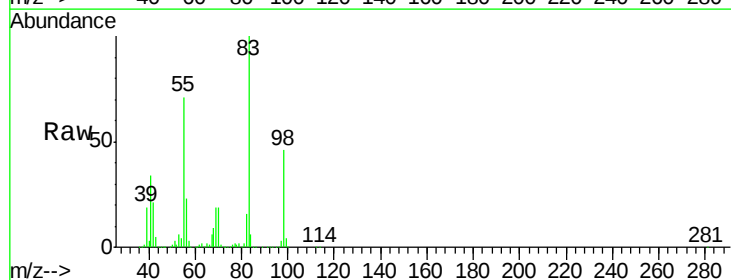
Tgt Ion: 83 Resp: 1324658

Ion Ratio Lower Upper

83 100

55 71.5 38.4 115.2

98 46.0 23.3 69.9



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

800000

600000

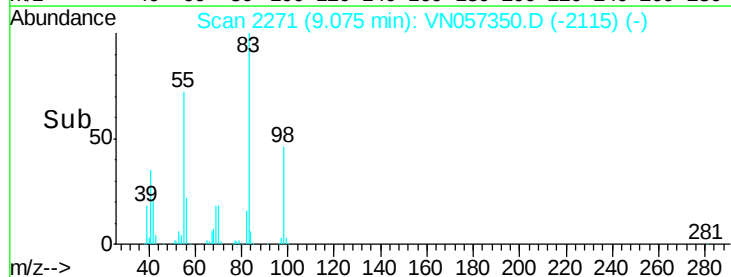
400000

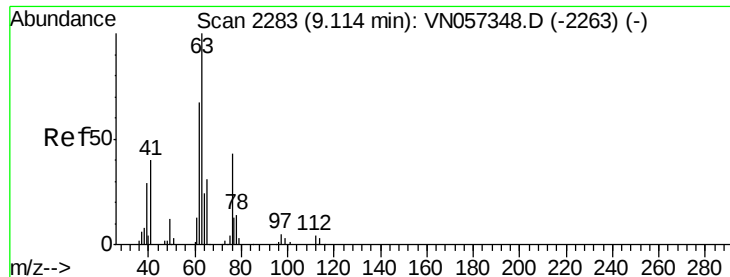
200000

0

9.00 9.10 9.20

Time-->

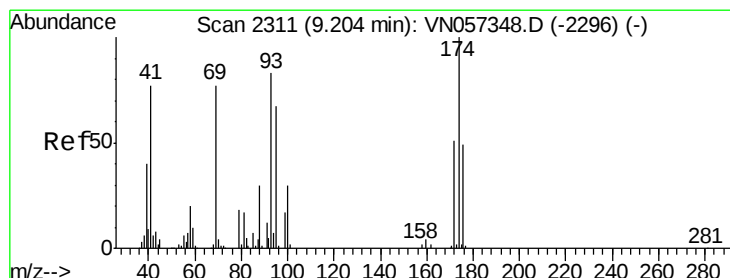
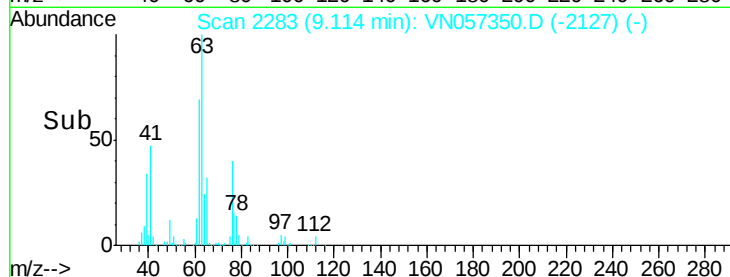
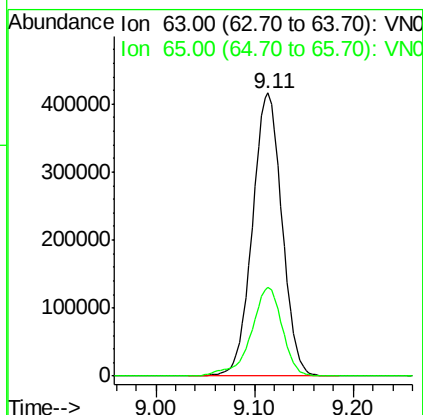
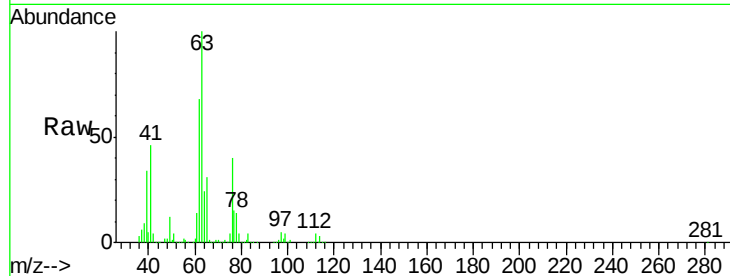




#39  
 1,2-Dichloropropane  
 Concen: 95.818 ug/l  
 RT: 9.11 min Scan# 2283  
 Delta R.T. 0.00 min  
 Lab File: VN057350.D  
 Acq: 16 Aug 2019 12:41

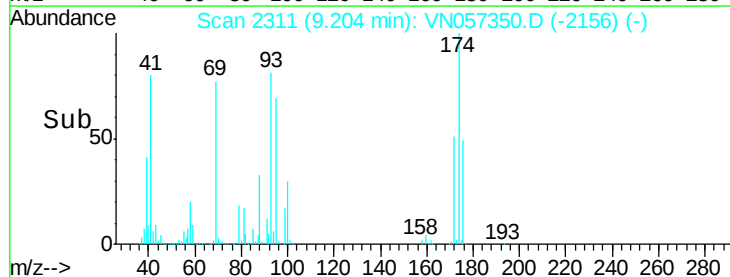
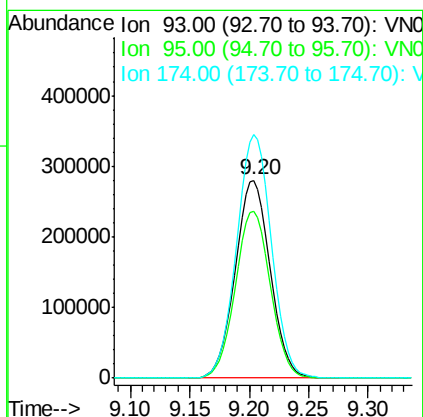
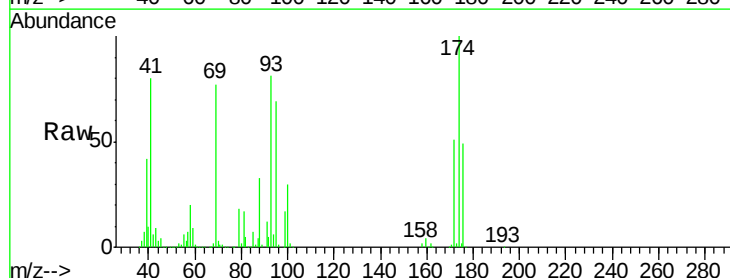
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC100

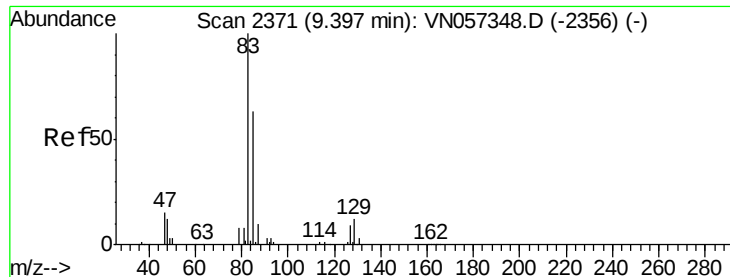
Tot Ion: 63 Resp: 859565  
 Ion Ratio Lower Upper  
 63 100  
 65 31.5 24.6 36.8



#40  
 Dibromomethane  
 Concen: 95.784 ug/l  
 RT: 9.20 min Scan# 2311  
 Delta R.T. -0.00 min  
 Lab File: VN057350.D  
 Acq: 16 Aug 2019 12:41

Tgt Ion: 93 Resp: 571178  
 Ion Ratio Lower Upper  
 93 100  
 95 84.7 0.0 167.0  
 174 122.9 0.0 224.2





#41

Bromodichloromethane

Concen: 97.074 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

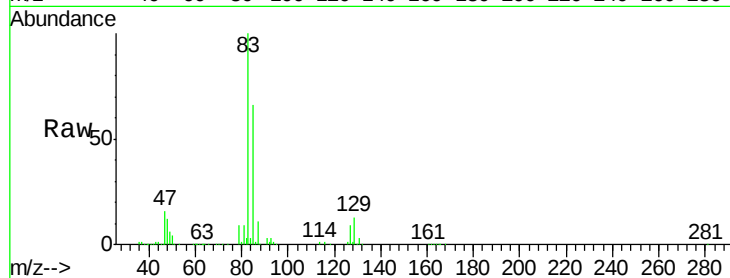
Tot Ion: 83 Resp: 1162494

Ion Ratio Lower Upper

83 100

85 65.9 50.1 75.1

127 9.5 7.0 10.4



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

9.40

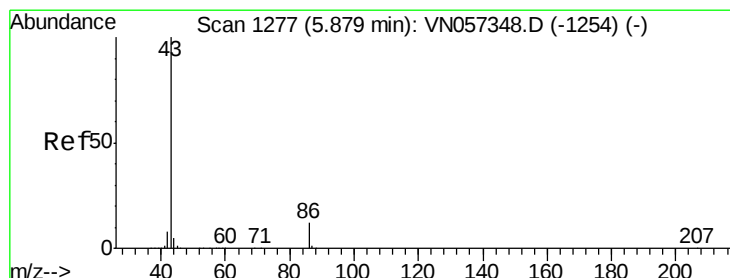
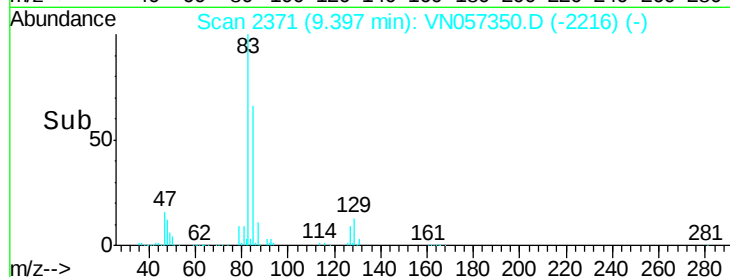
600000

400000

200000

0

Time-->



#42

Vinyl Acetate

Concen: 493.905 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VN057350.D

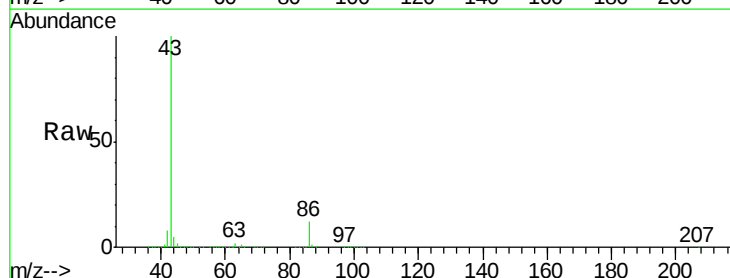
Acq: 16 Aug 2019 12:41

Tgt Ion: 43 Resp: 9355246

Ion Ratio Lower Upper

43 100

86 10.4 7.4 11.2



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

5.88

3000000

2500000

2000000

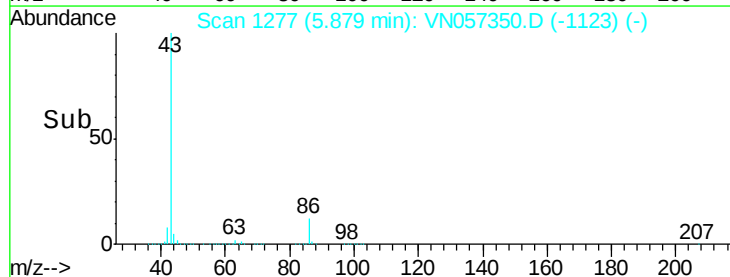
1500000

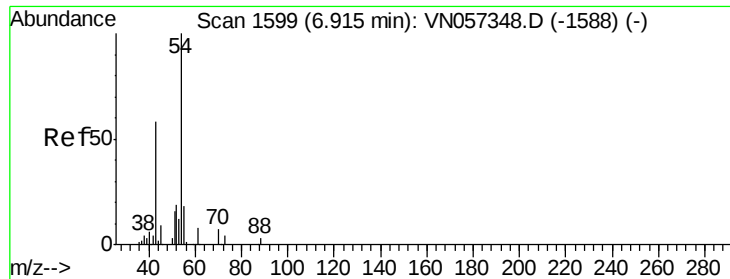
1000000

500000

0

Time-->

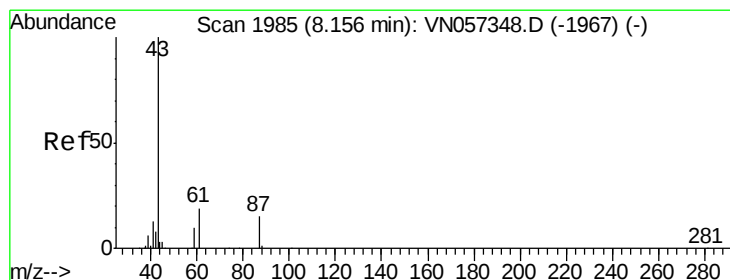
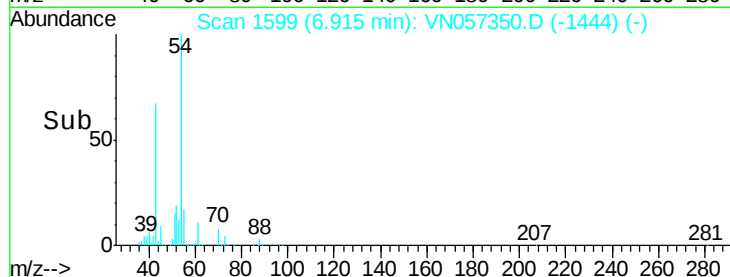
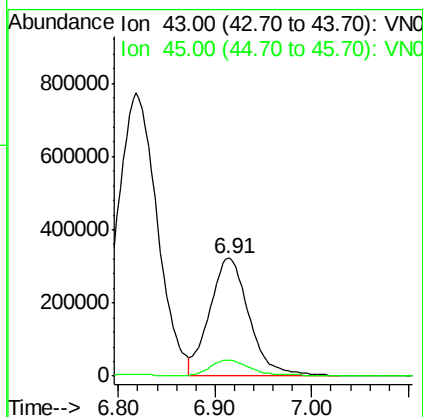
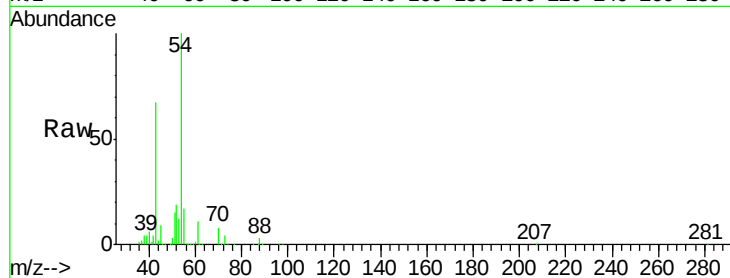




#43  
Ethyl Acetate  
Concen: 96.993 ug/l  
RT: 6.91 min Scan# 1599  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

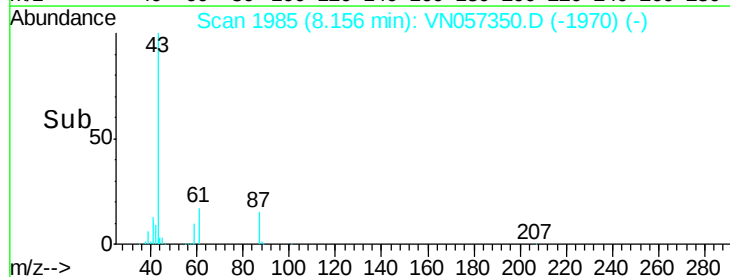
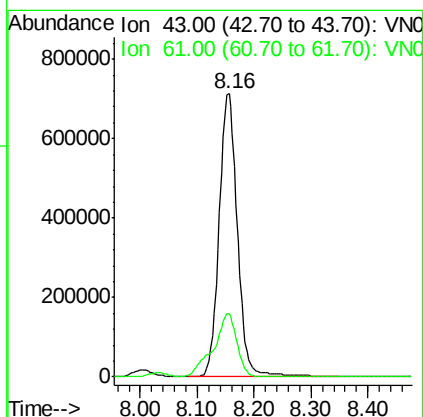
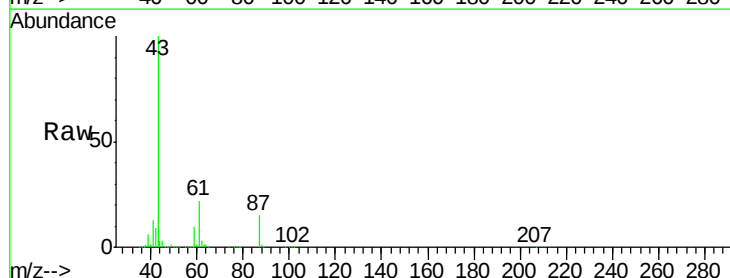
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

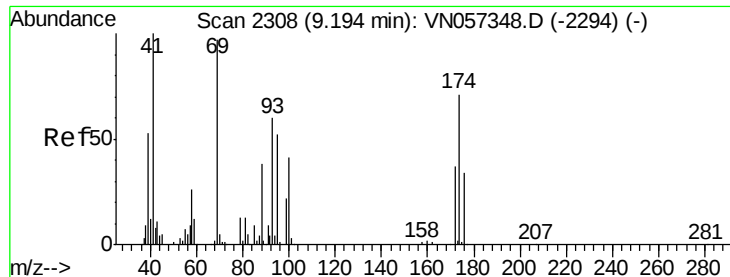
Tot Ion: 43 Resp: 903621  
Ion Ratio Lower Upper  
43 100  
45 14.7 11.2 16.8



#44  
Isopropyl Acetate  
Concen: 97.056 ug/l m  
RT: 8.16 min Scan# 1985  
Delta R.T. -0.45 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion: 43 Resp: 1595253  
Ion Ratio Lower Upper  
43 100  
61 0.0 22.6 33.8#

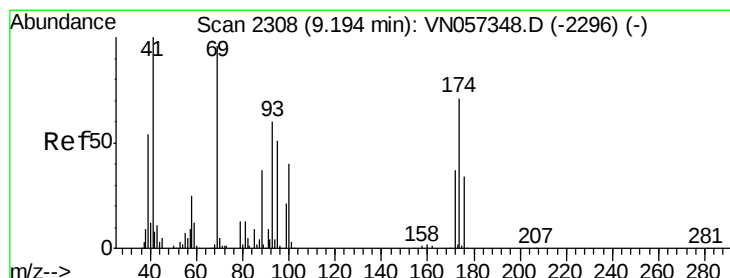
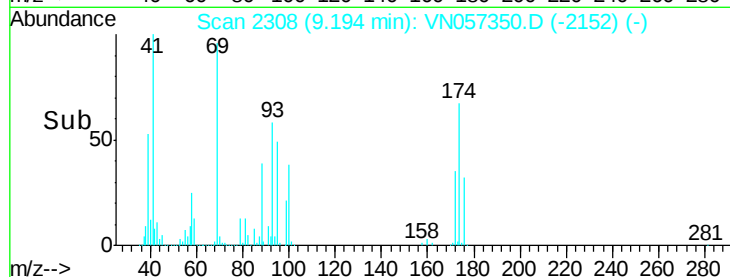
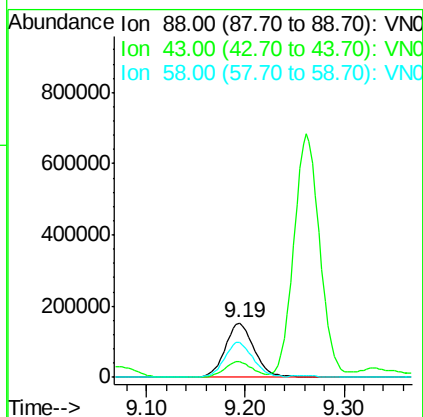
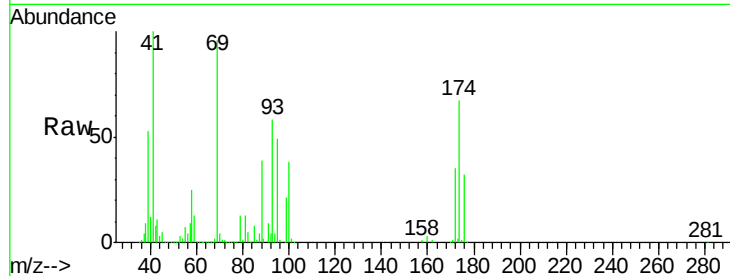




#45  
1,4-Dioxane  
Concen: 2092.207 ug/l  
RT: 9.19 min Scan# 2308  
Delta R.T. 0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

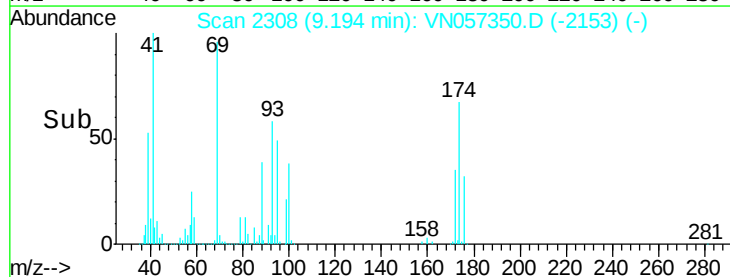
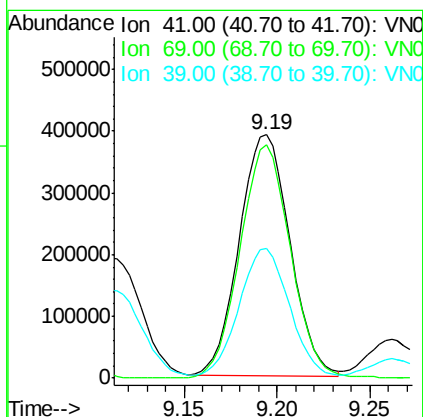
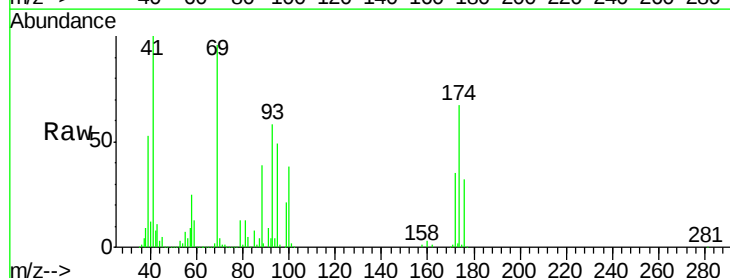
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

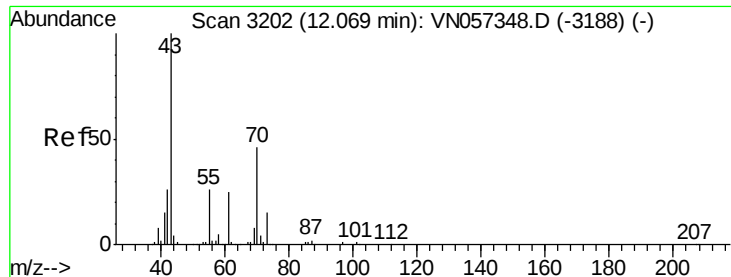
| Tot Ion | 88    | Resp  | 315806 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 88      | 100   |       |        |
| 43      | 28.1  | 23.0  | 34.6   |
| 58      | 63.7  | 54.6  | 81.8   |



#46  
Methyl methacrylate  
Concen: 102.958 ug/l  
RT: 9.19 min Scan# 2308  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

| Tgt Ion | 41    | Resp  | 738421 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 41      | 100   |       |        |
| 69      | 96.6  | 43.0  | 129.0  |
| 39      | 52.6  | 25.1  | 75.4   |





#47

n-amvl Acetate

Concen: 116.898 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

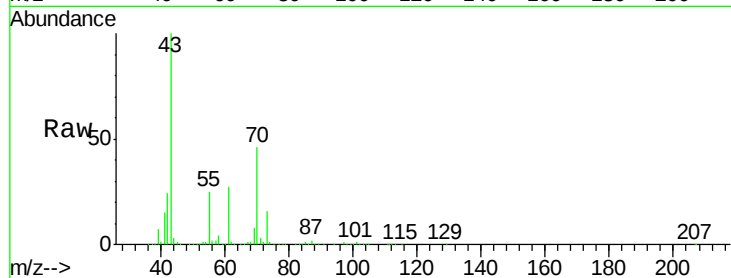
VSTDICC100

Tot Ion: 43 Resp: 1306009

Ion Ratio Lower Upper

43 100

55 25.2 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

12.07

800000

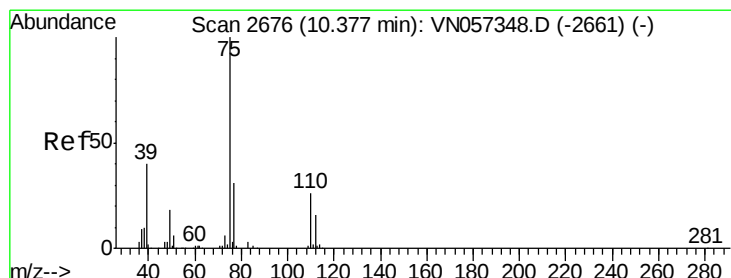
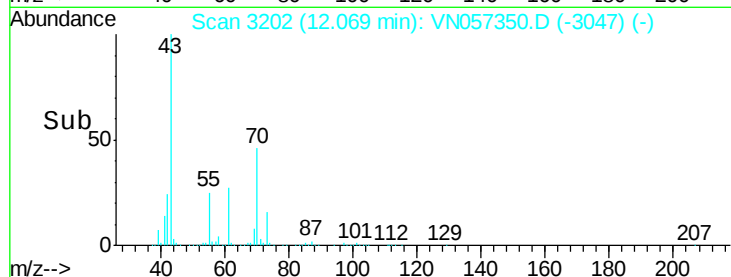
600000

400000

200000

0

Time-->



#48

t-1,3-Dichloropropene

Concen: 102.140 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN057350.D

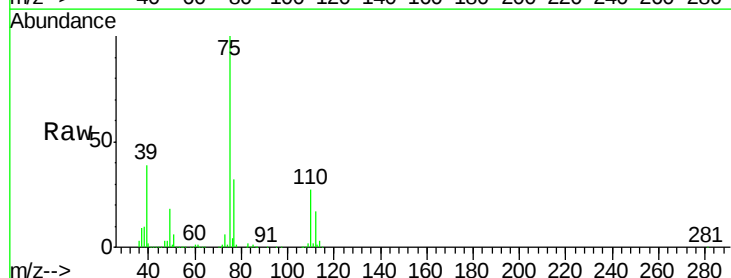
Acq: 16 Aug 2019 12:41

Tgt Ion: 75 Resp: 1295694

Ion Ratio Lower Upper

75 100

77 31.6 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

10.38

800000

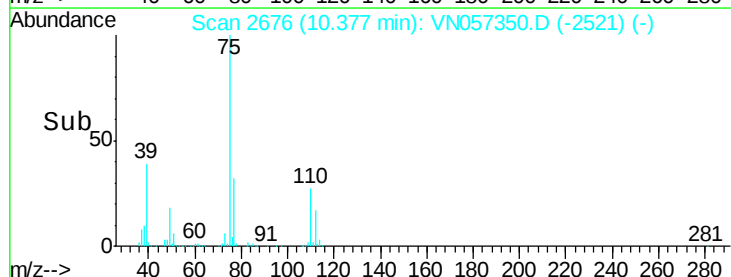
600000

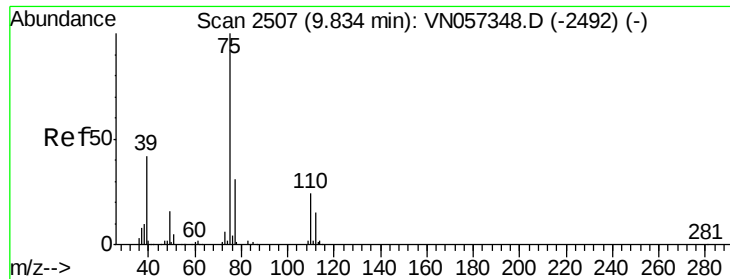
400000

200000

0

Time-->



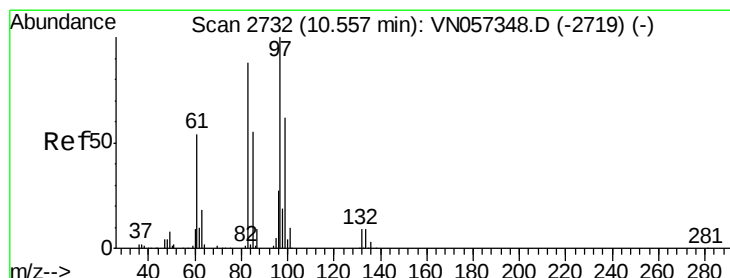
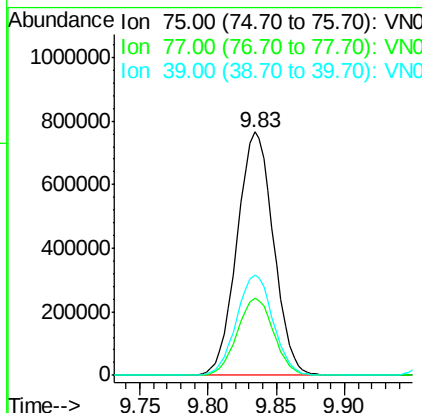
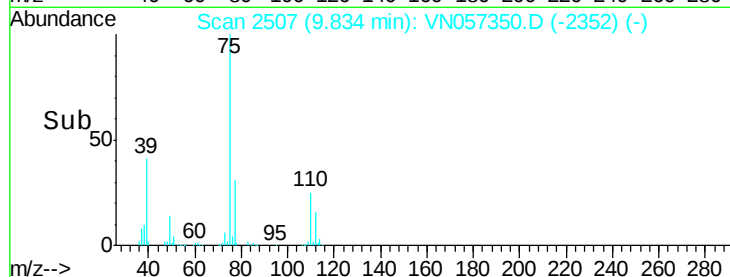
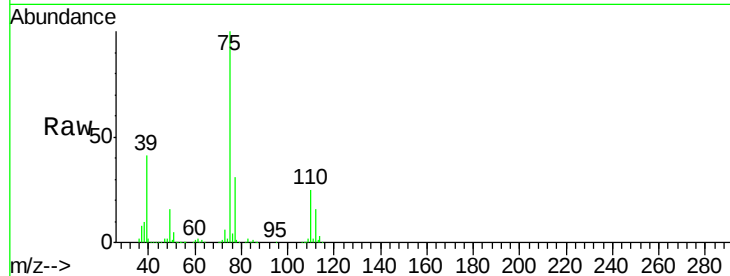


#49

cis-1,3-Dichloropropene  
Concen: 99.461 ug/l  
RT: 9.83 min Scan# 2507  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

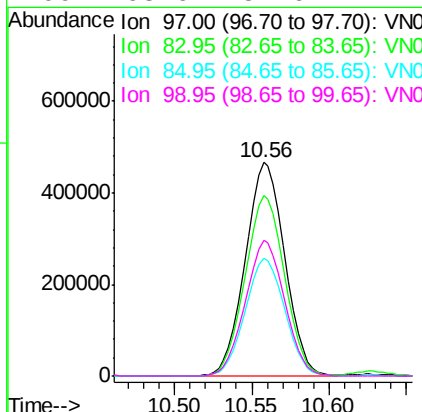
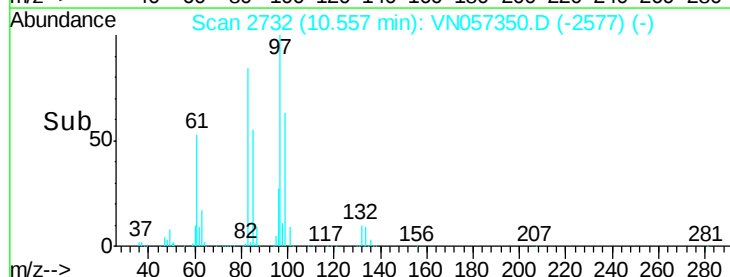
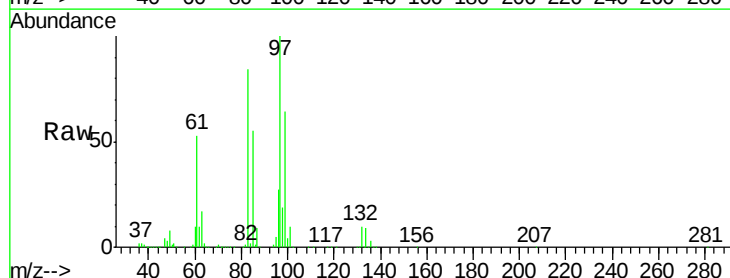
Tot Ion: 75 Resp: 1422707  
Ion Ratio Lower Upper  
75 100  
77 31.5 26.0 39.0  
39 41.3 36.2 54.4

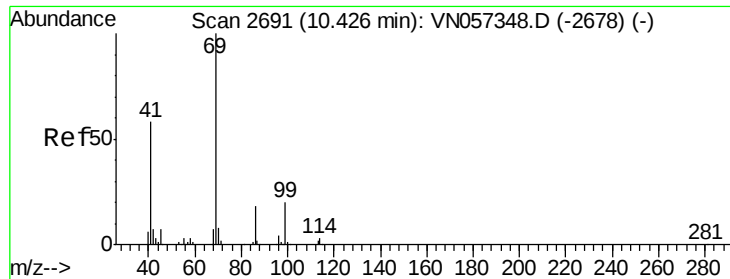


#50

1,1,2-Trichloroethane  
Concen: 95.076 ug/l  
RT: 10.56 min Scan# 2732  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion: 97 Resp: 829630  
Ion Ratio Lower Upper  
97 100  
83 84.3 69.2 103.8  
85 55.2 45.3 67.9  
99 63.6 51.6 77.4





#51

Ethyl methacrylate

Concen: 105.703 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampled :

VSTDIC100

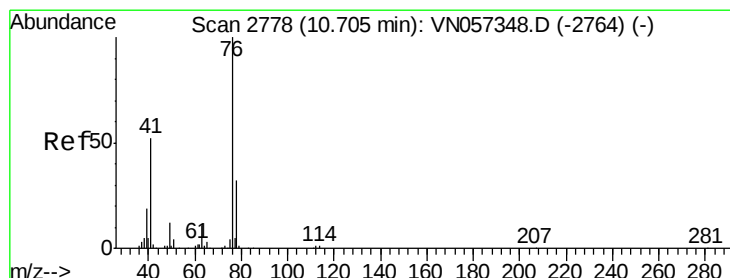
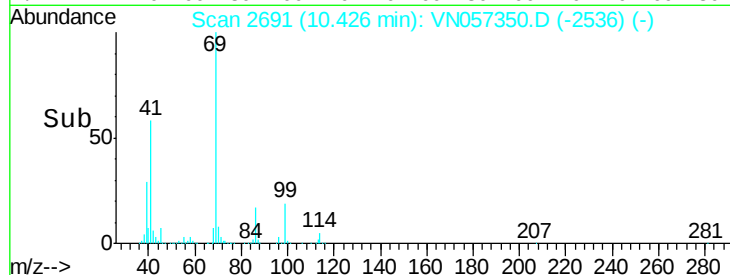
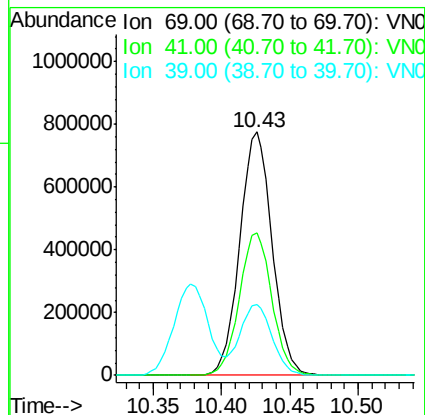
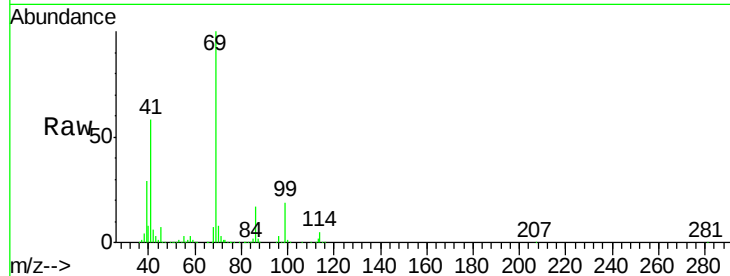
Tot Ion: 69 Resp: 1276176

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 58.3  | 32.8  | 98.3  |
| 39  | 29.2  | 15.4  | 46.2  |

69 100

41 58.3 32.8 98.3

39 29.2 15.4 46.2



#52

1,3-Dichloropropane

Concen: 96.897 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VN057350.D

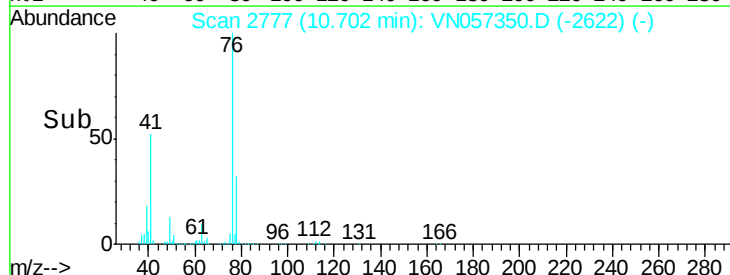
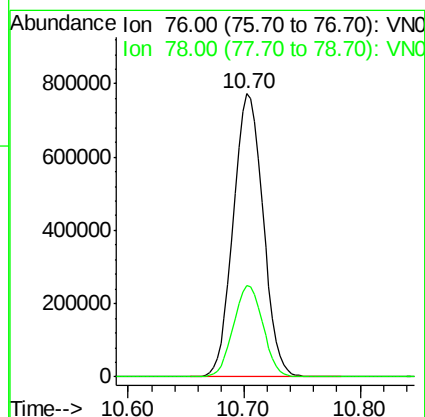
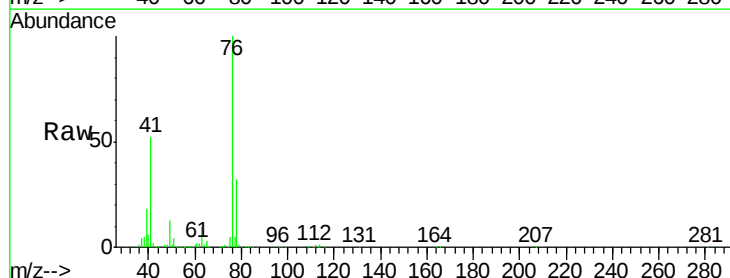
Acq: 16 Aug 2019 12:41

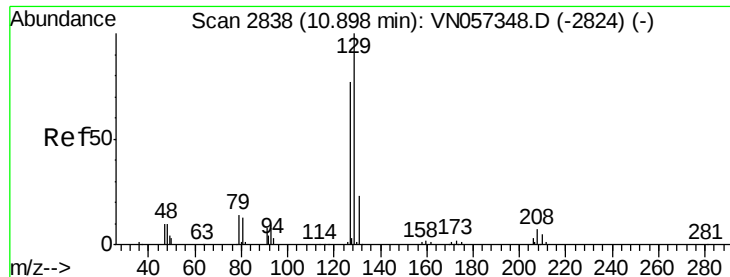
Tgt Ion: 76 Resp: 1370867

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 32.0  | 0.0   | 63.6  |

76 100

78 32.0 0.0 63.6





#53

Dibromochloromethane

Concen: 101.323 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

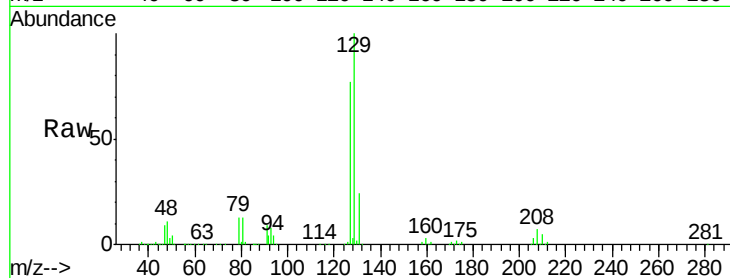
VSTDIC100

Tot Ion:129 Resp: 988370

Ion Ratio Lower Upper

129 100

127 77.7 38.7 116.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.90

600000

500000

400000

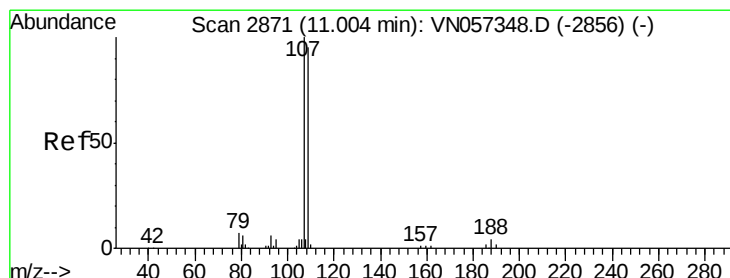
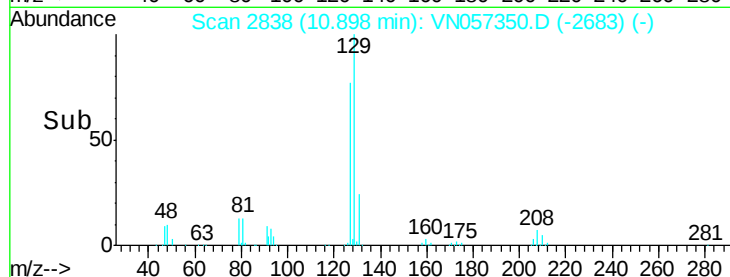
300000

200000

100000

0

Time--> 10.80 10.85 10.90 10.95



#54

1,2-Dibromoethane

Concen: 99.382 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VN057350.D

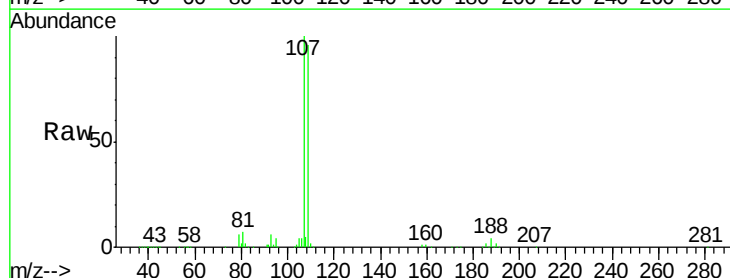
Acq: 16 Aug 2019 12:41

Tgt Ion:107 Resp: 896014

Ion Ratio Lower Upper

107 100

109 95.3 77.9 116.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

11.00

600000

500000

400000

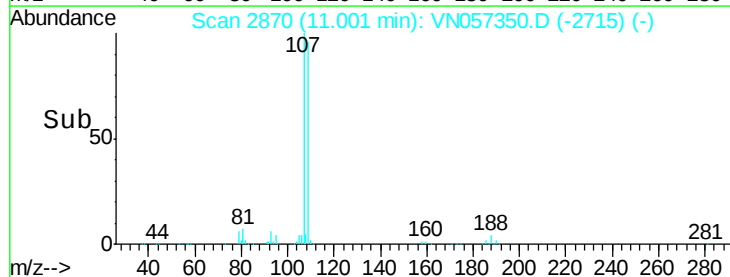
300000

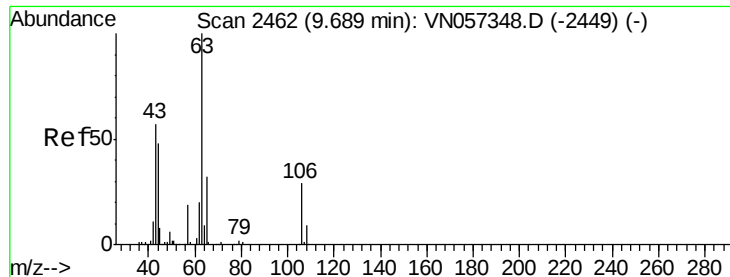
200000

100000

0

Time--> 10.90 11.00 11.10





#55

2-Chloroethyl vinyl ether

Concen: 631.973 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

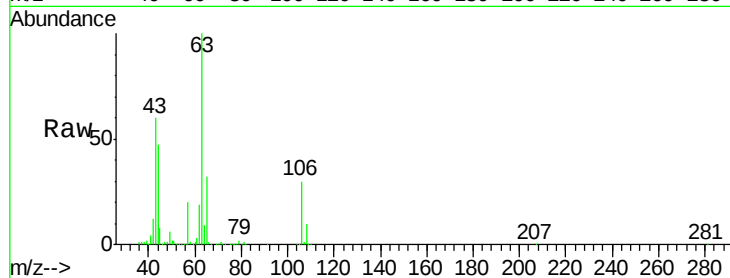
Tot Ion: 63 Resp: 1615346

Ion Ratio Lower Upper

63 100

65 32.4 25.2 37.8

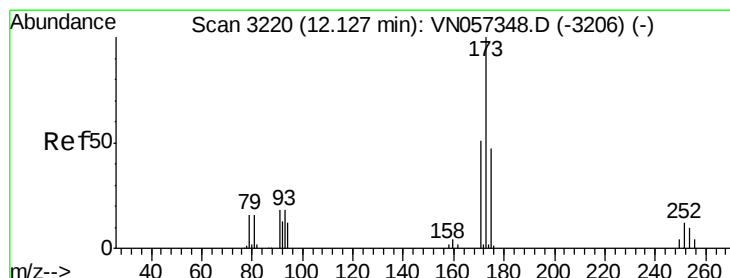
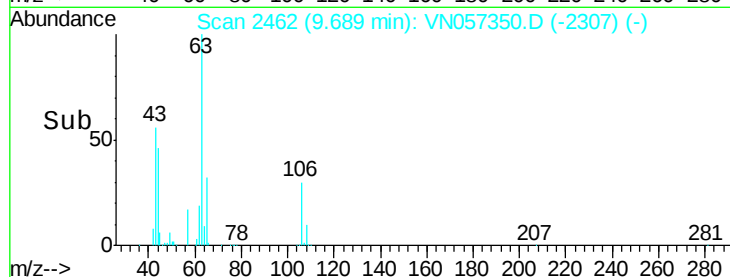
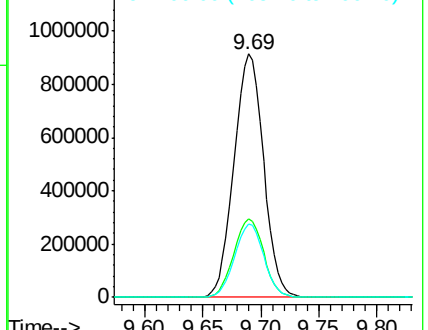
106 29.7 21.6 32.4



Abundance Ion 63.00 (62.70 to 63.70): VN057348.D (-2449) (-)

Ion 65.00 (64.70 to 65.70): VN057348.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN057348.D (-2449) (-)



#56

Bromoform

Concen: 112.691 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

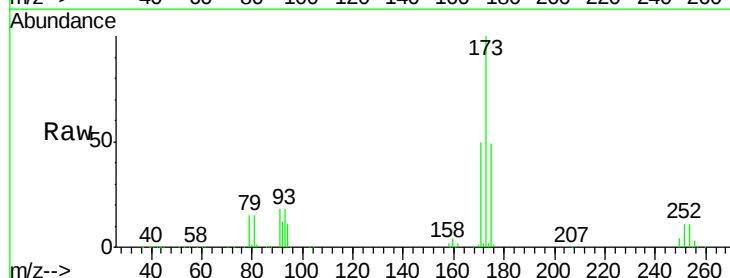
Tgt Ion: 173 Resp: 794838

Ion Ratio Lower Upper

173 100

175 48.7 39.7 59.5

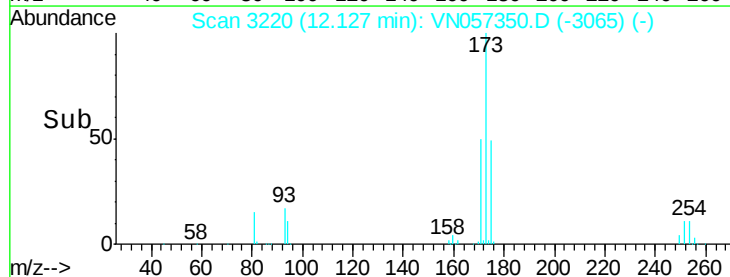
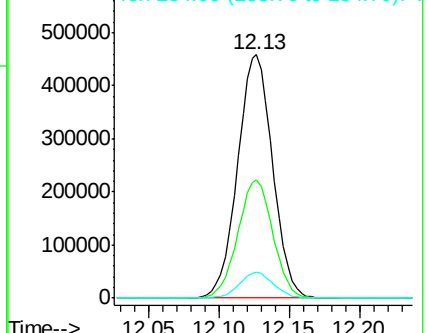
254 10.5 7.8 11.8

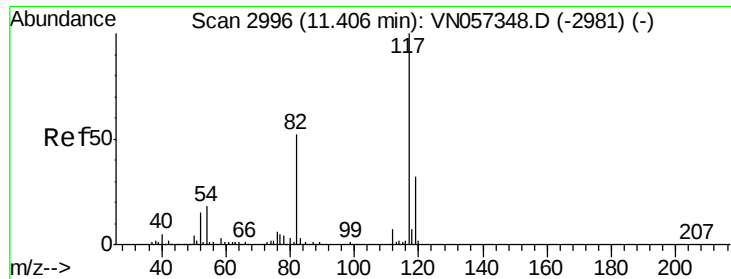


Abundance Ion 173.00 (172.70 to 173.70): VN057348.D (-3206) (-)

Ion 175.00 (174.70 to 175.70): VN057348.D (-3206) (-)

Ion 254.00 (253.70 to 254.70): VN057348.D (-3206) (-)

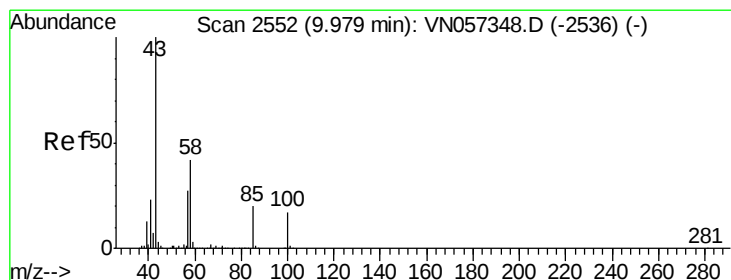
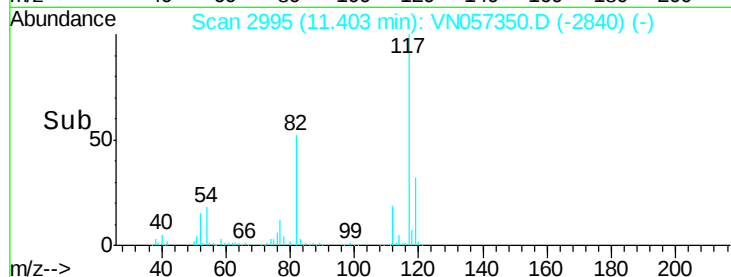
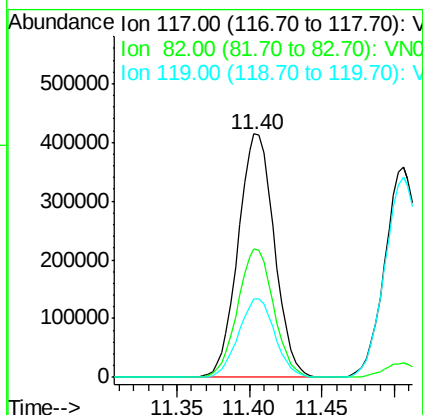
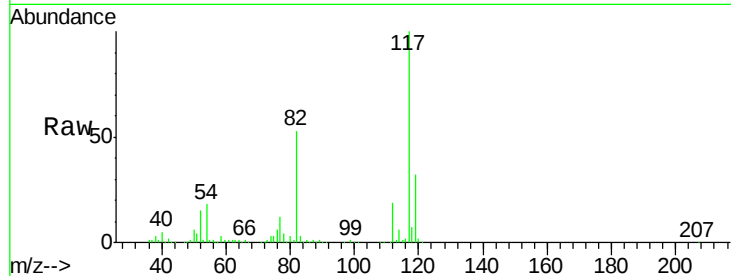




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

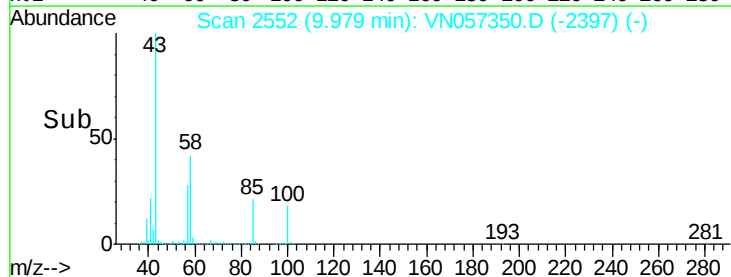
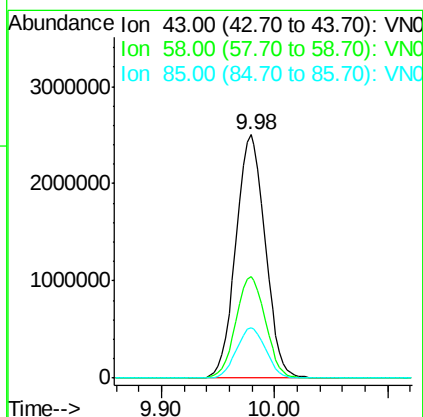
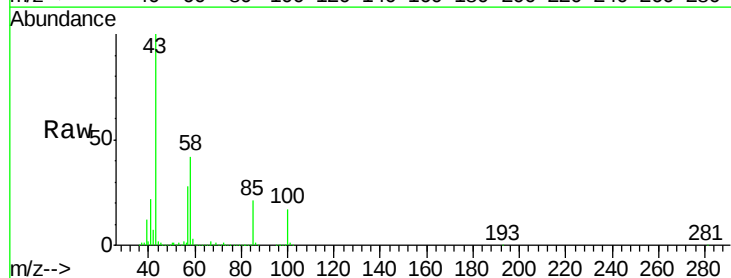
Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDIC100

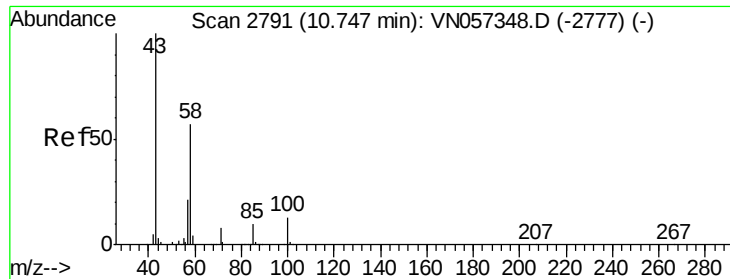
Tot Ion:117 Resp: 720791  
Ion Ratio Lower Upper  
117 100  
82 52.4 43.0 64.4  
119 32.3 26.0 39.0



#58  
4-Methyl-2-Pentanone  
Concen: 477.468 ug/l  
RT: 9.98 min Scan# 2552  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion: 43 Resp: 4528510  
Ion Ratio Lower Upper  
43 100  
58 42.3 31.9 47.9  
85 20.8 14.2 21.4

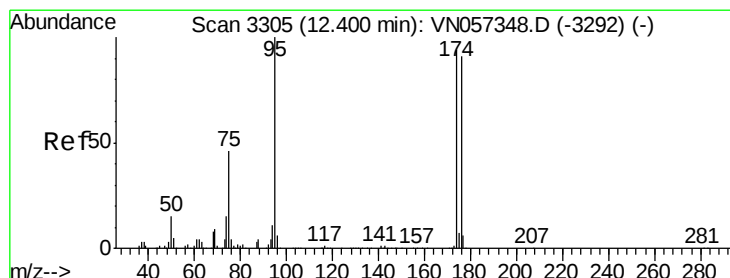
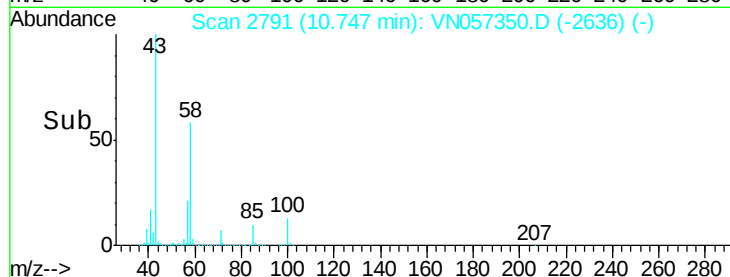
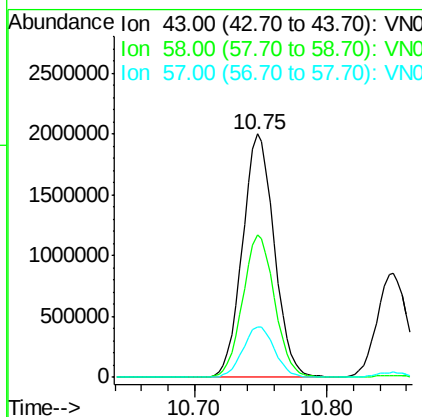
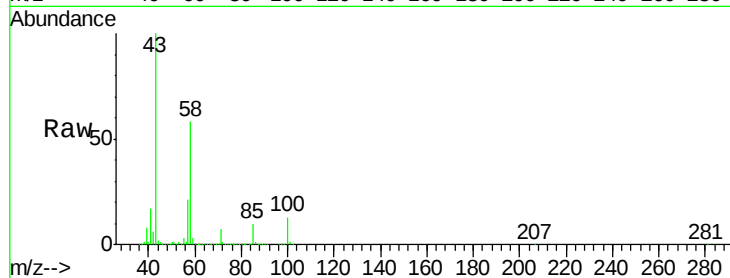




#59  
2-Hexanone  
Concen: 493.116 ug/l  
RT: 10.75 min Scan# 2791  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

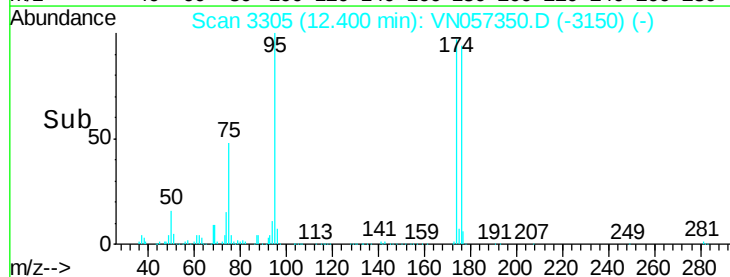
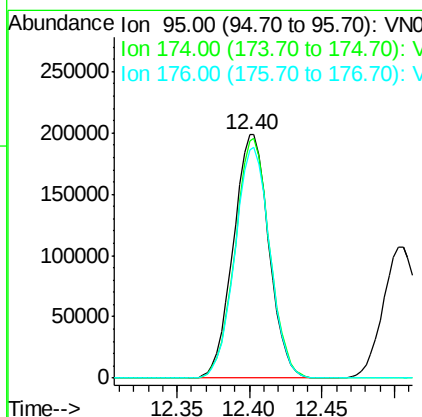
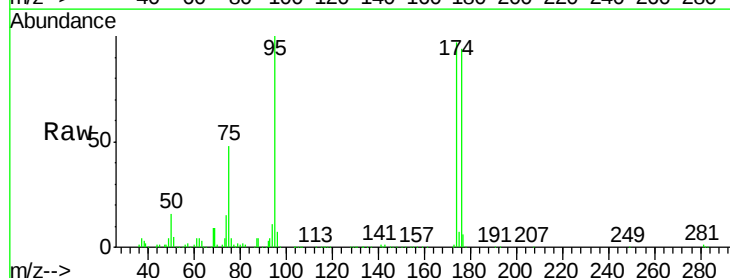
Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDIC100

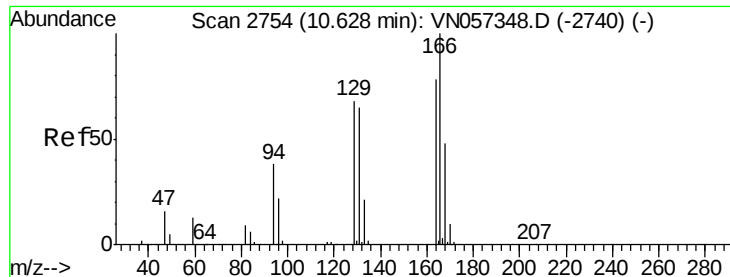
Tot Ion: 43 Resp: 3325010  
Ion Ratio Lower Upper  
43 100  
58 58.9 44.4 66.6  
57 20.9 15.2 22.8



#60  
4-Bromofluorobenzene  
Concen: 33.377 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion: 95 Resp: 337663  
Ion Ratio Lower Upper  
95 100  
174 95.9 72.6 108.8  
176 93.3 71.0 106.6

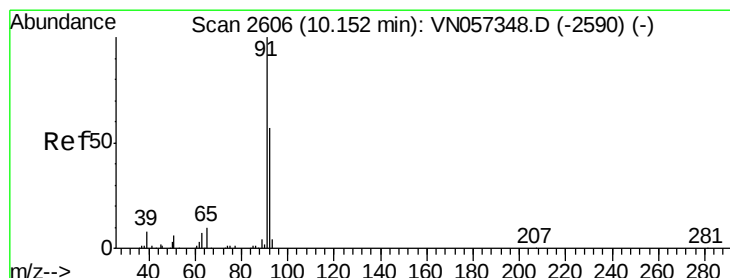
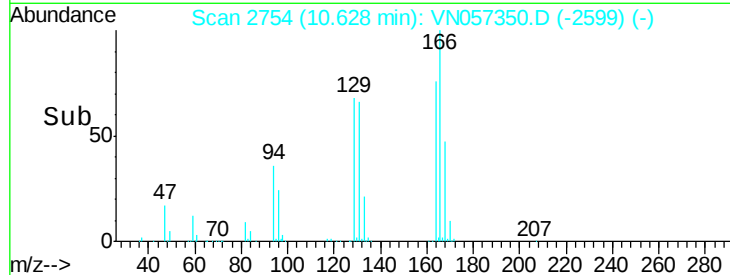
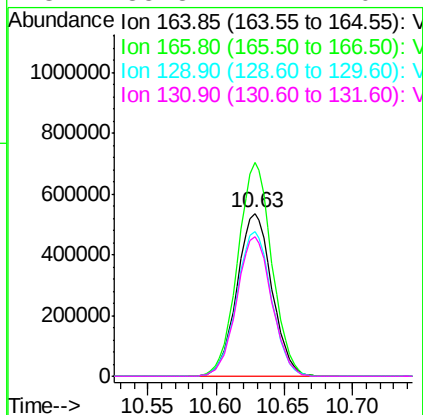
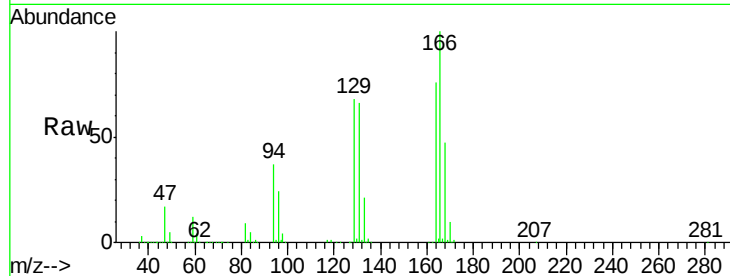




#61  
Tetrachloroethene  
Concen: 84.422 ug/l  
RT: 10.63 min Scan# 2754  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

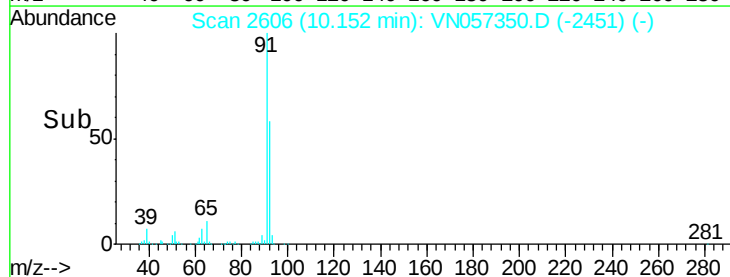
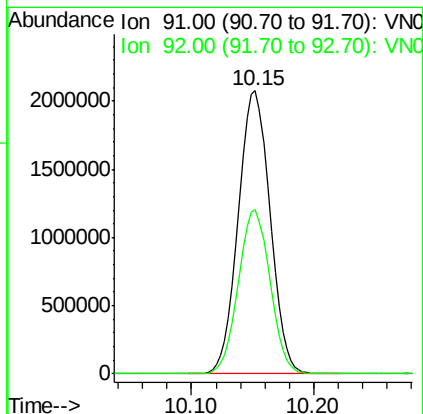
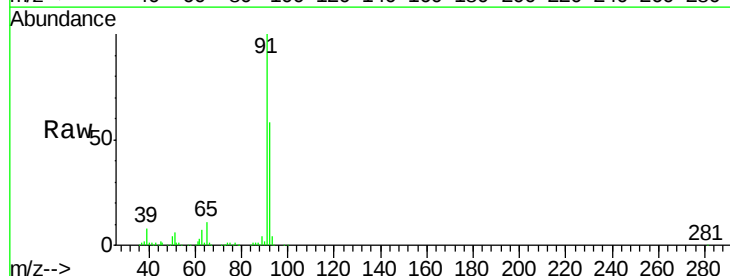
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

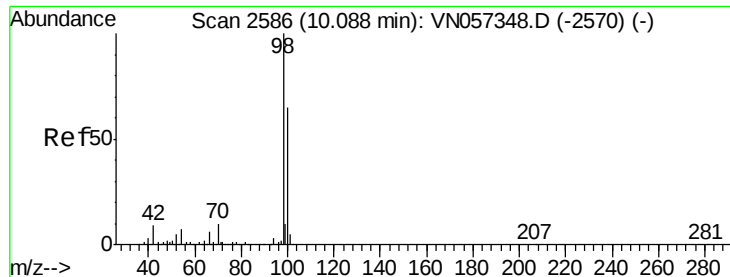
Tot Ion:164 Resp: 950389  
Ion Ratio Lower Upper  
164 100  
166 131.0 102.3 153.5  
129 88.6 72.6 108.8  
131 85.8 71.4 107.2



#62  
Toluene  
Concen: 91.396 ug/l  
RT: 10.15 min Scan# 2606  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion: 91 Resp: 3748776  
Ion Ratio Lower Upper  
91 100  
92 57.7 46.7 70.1





#63

Toluene-d8

Concen: 28.582 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

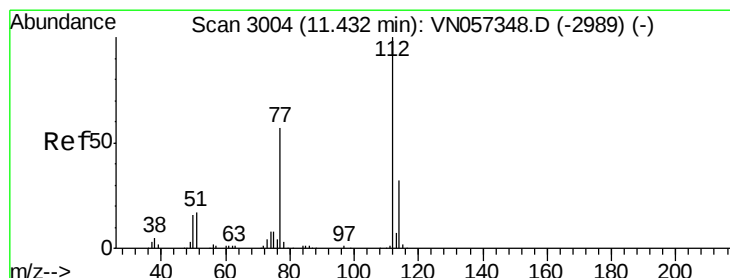
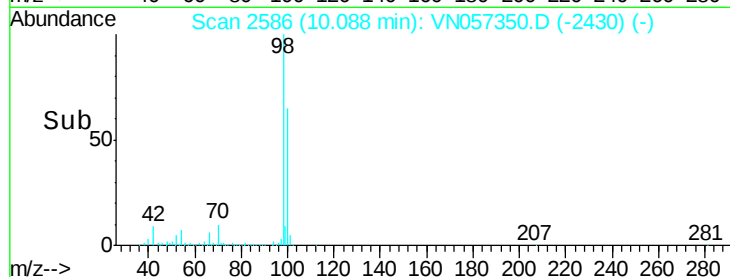
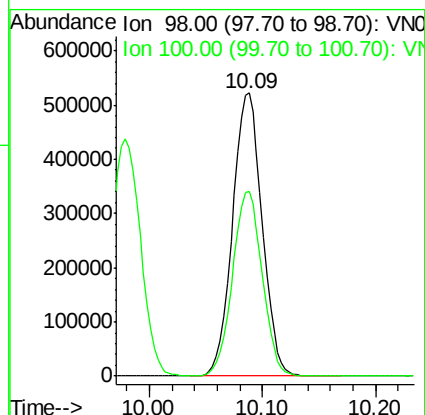
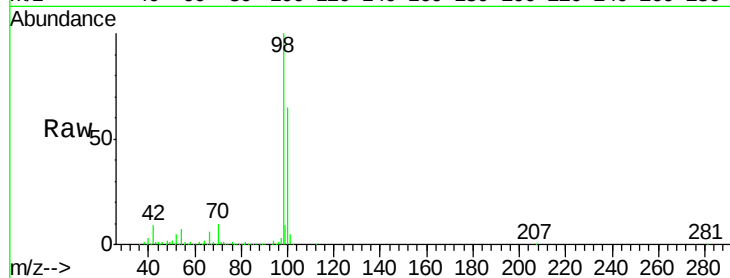
VSTDICC100

Tot Ion: 98 Resp: 949563

Ion Ratio Lower Upper

98 100

100 65.6 51.1 76.7



#64

Chlorobenzene

Concen: 94.958 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN057350.D

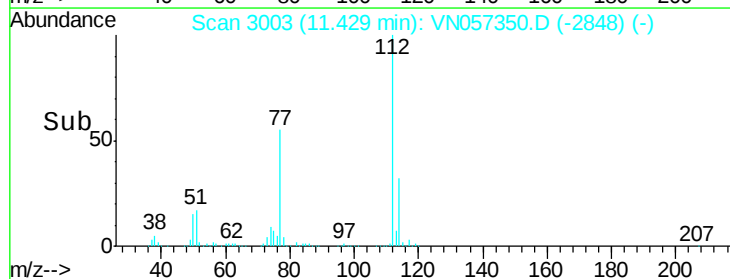
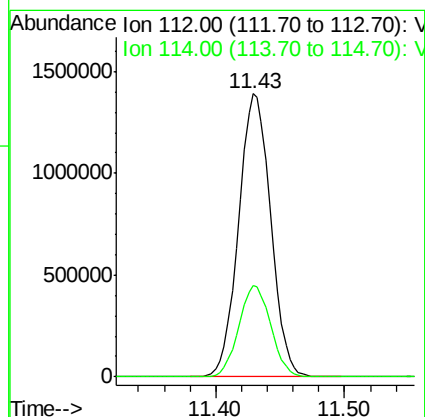
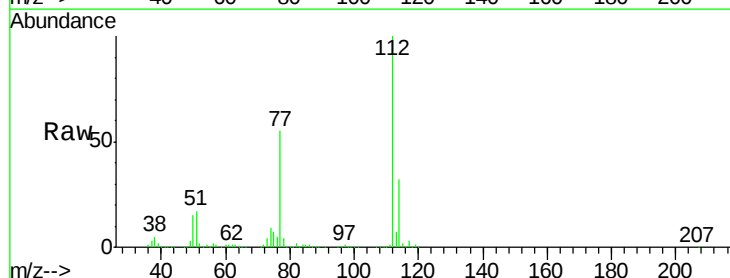
Acq: 16 Aug 2019 12:41

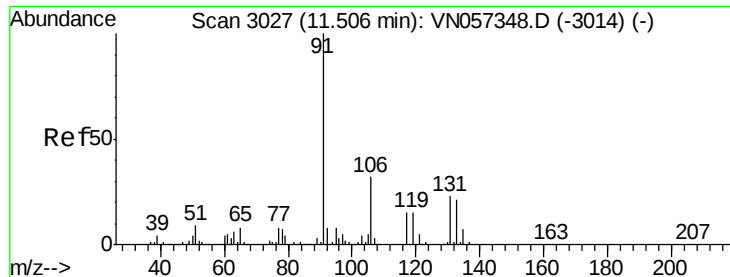
Tgt Ion: 112 Resp: 2404355

Ion Ratio Lower Upper

112 100

114 32.3 25.3 37.9





#65

1,1,1,2-Tetrachloroethane

Concen: 91.705 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

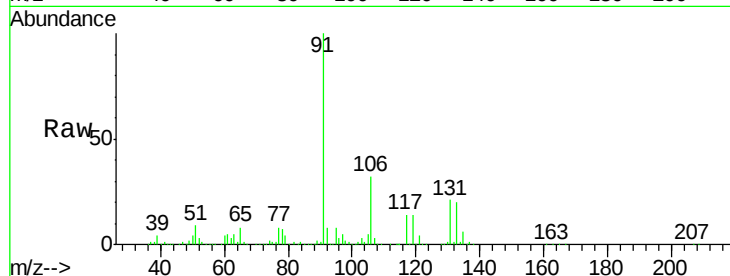
Tot Ion:131 Resp: 915309

Ion Ratio Lower Upper

131 100

133 95.5 0.0 191.4

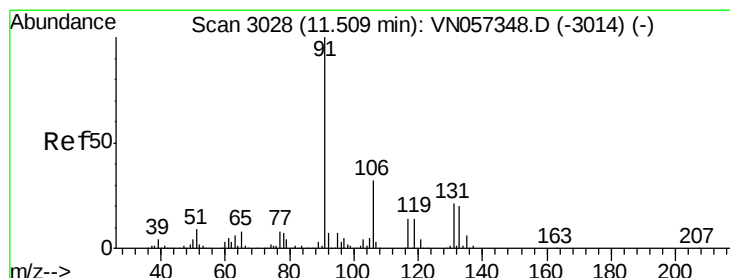
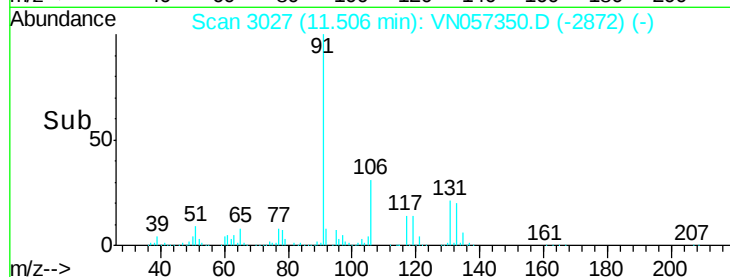
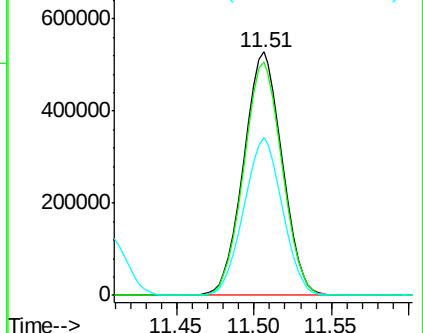
119 64.9 0.0 133.4



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: 96.219 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN057350.D

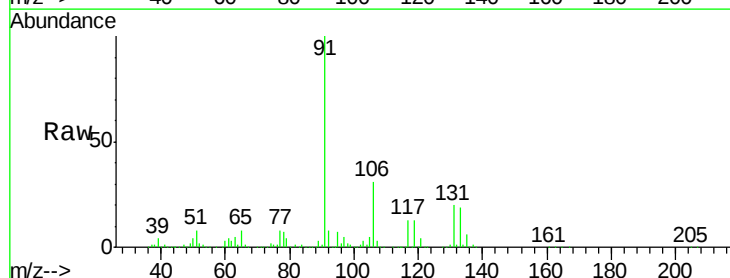
Acq: 16 Aug 2019 12:41

Tgt Ion: 91 Resp: 4216840

Ion Ratio Lower Upper

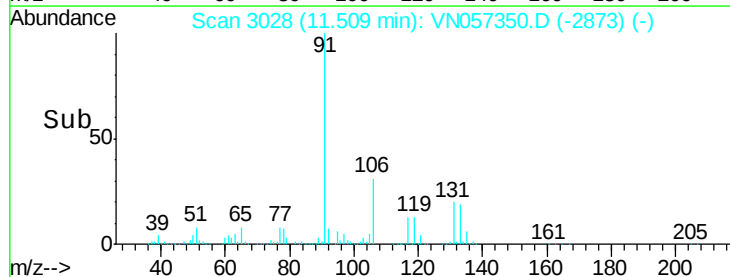
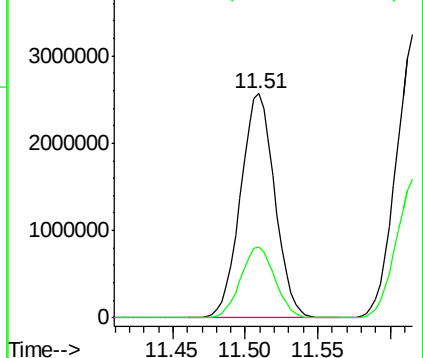
91 100

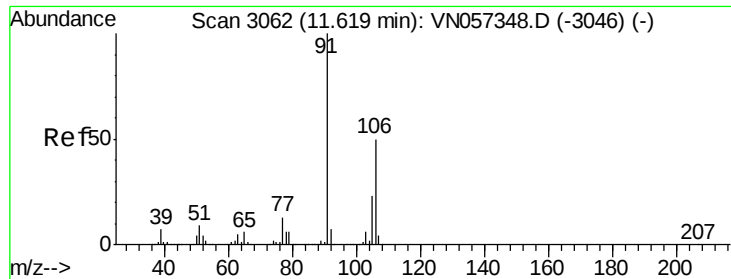
106 31.5 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

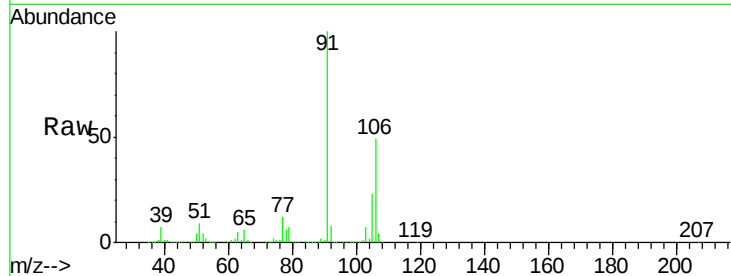




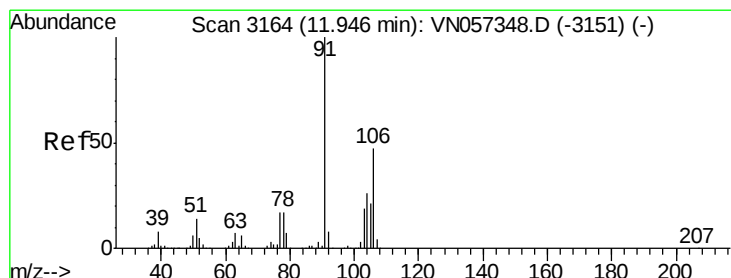
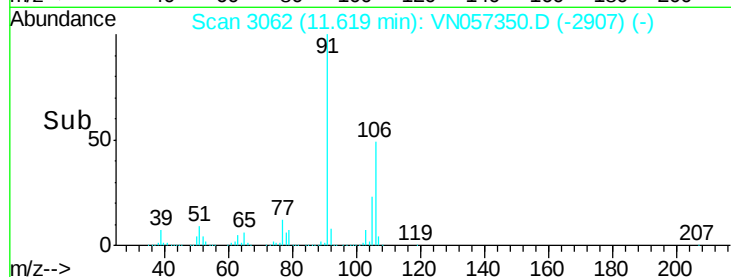
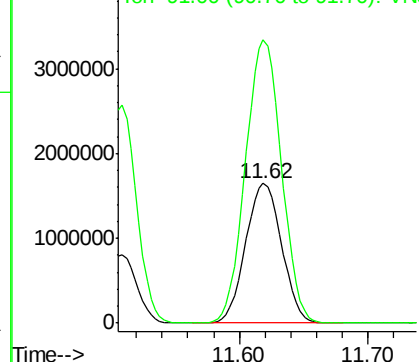
#67  
m/p-Xylenes  
Concen: 198.456 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

Tot Ion:106 Resp: 3213479  
Ion Ratio Lower Upper  
106 100  
91 201.7 161.8 242.8

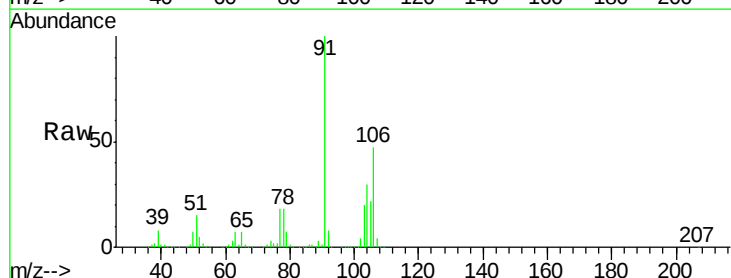


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

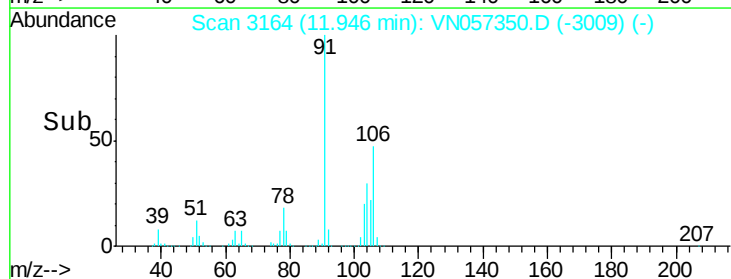
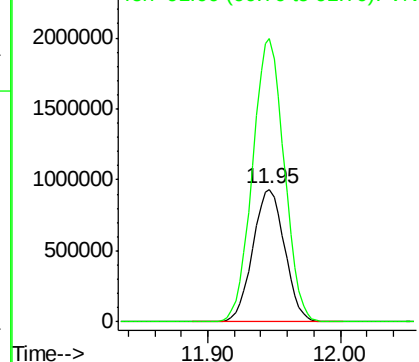


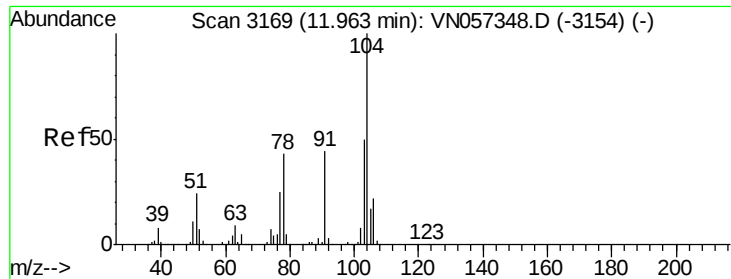
#68  
o-Xylene  
Concen: 97.979 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion:106 Resp: 1557947  
Ion Ratio Lower Upper  
106 100  
91 212.5 108.1 324.2



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

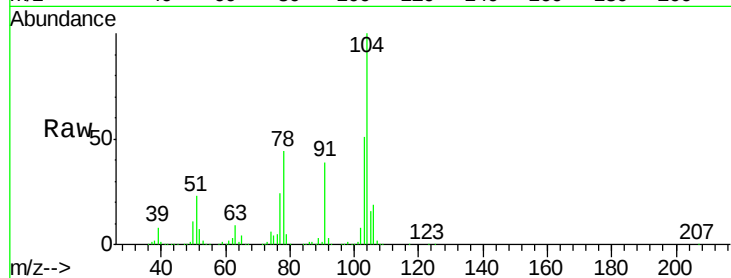




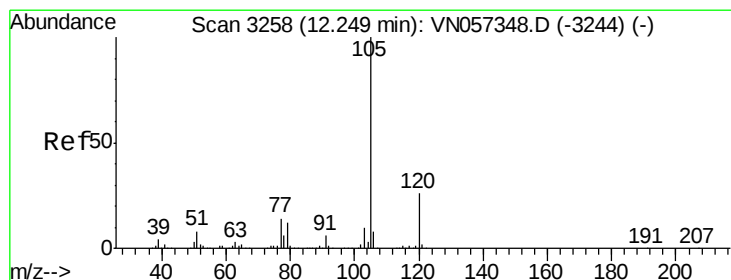
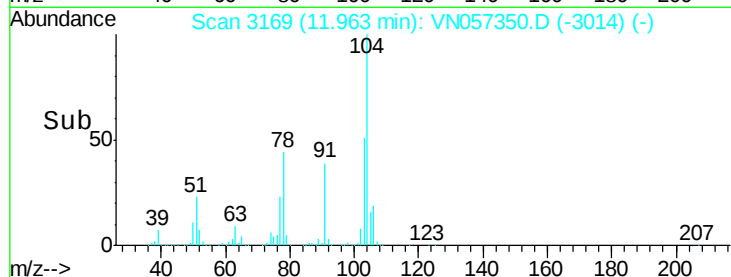
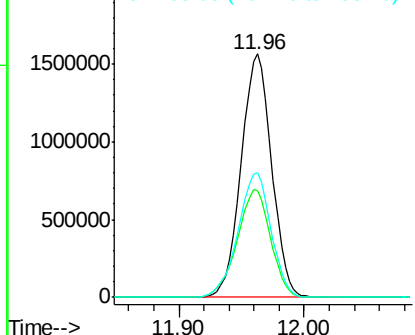
#69  
Stvrene  
Concen: 108.860 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

Tot Ion:104 Resp: 2651557  
Ion Ratio Lower Upper  
104 100  
78 48.3 38.7 58.1  
103 55.2 45.0 67.4

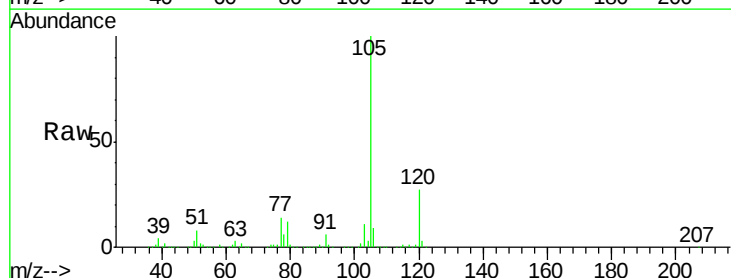


Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): V  
Ion 103.00 (102.70 to 103.70): V

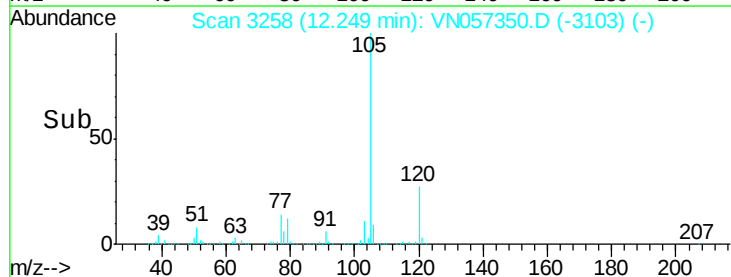
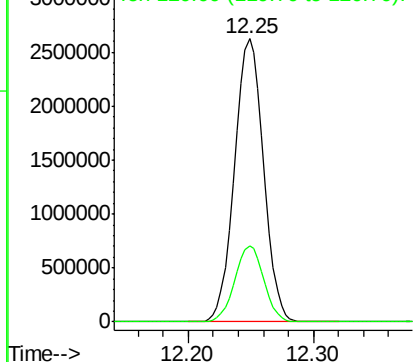


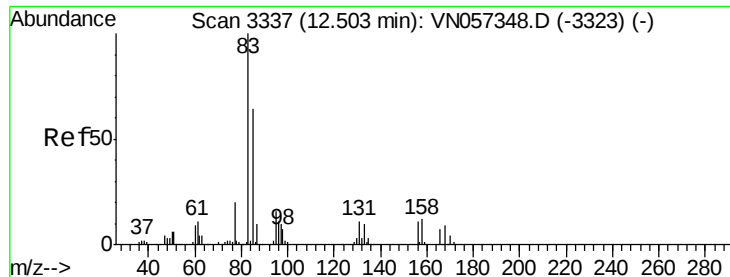
#70  
Isopropylbenzene  
Concen: 98.968 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion:105 Resp: 4206814  
Ion Ratio Lower Upper  
105 100  
120 26.9 18.6 34.5



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: 96.826 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

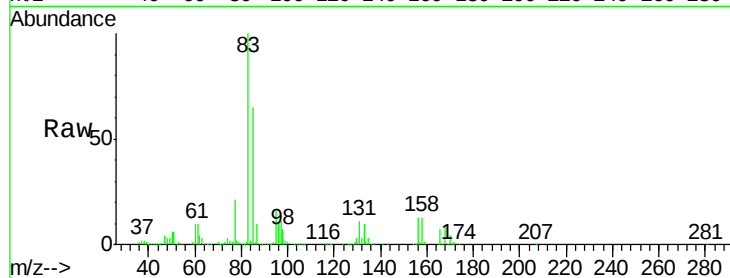
Tot Ion: 83 Resp: 1141447

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 11.3  | 5.1   | 15.3  |
| 85  | 65.4  | 31.9  | 95.7  |

83 100

131 11.3 5.1 15.3

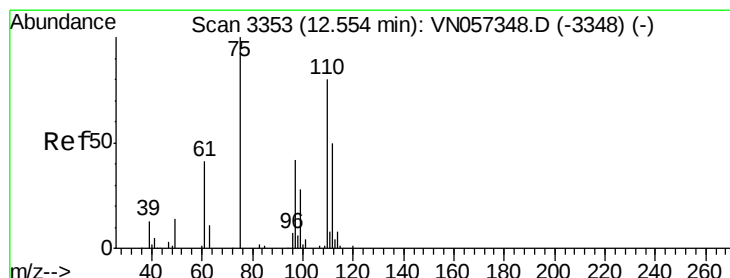
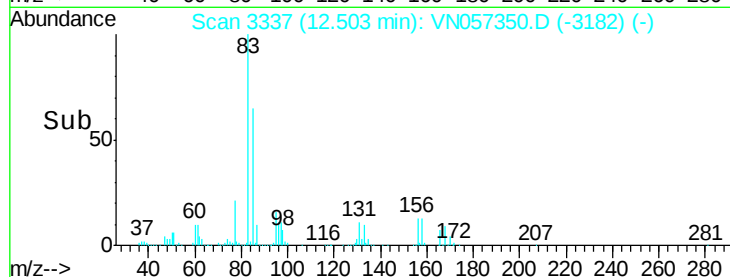
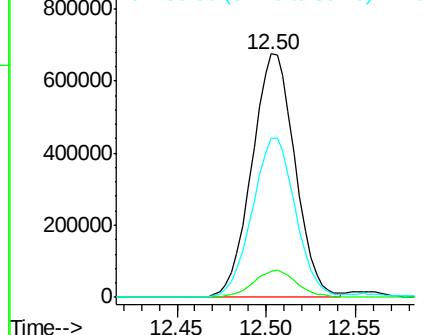
85 65.4 31.9 95.7



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 131.00 (130.70 to 131.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 97.724 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN057350.D

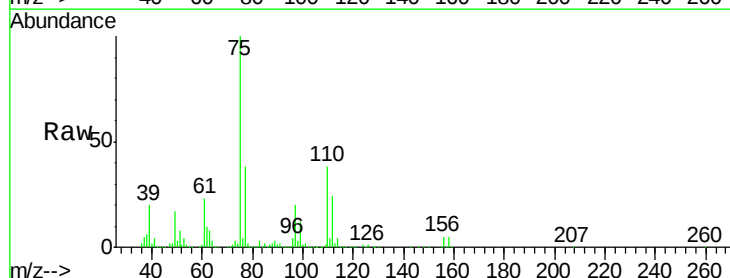
Acq: 16 Aug 2019 12:41

Tgt Ion: 75 Resp: 963308

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 205.9 | 0.0   | 352.2 |

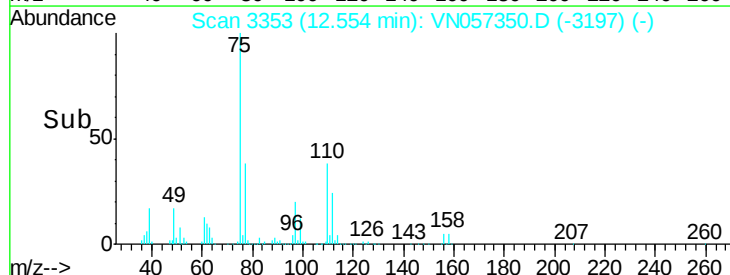
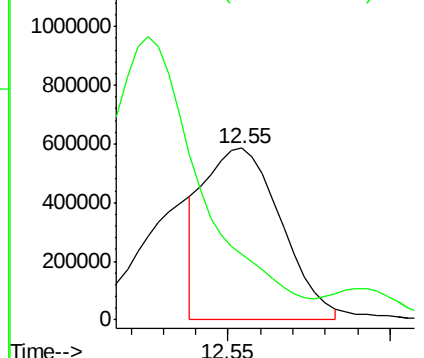
75 100

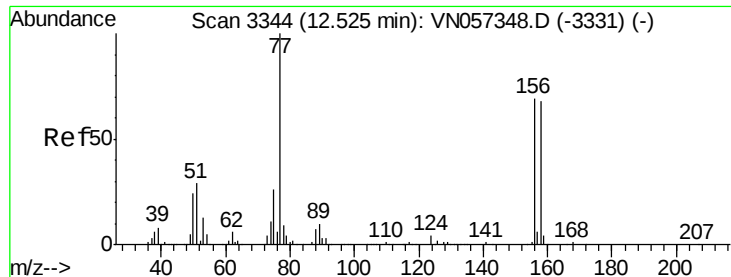
77 205.9 0.0 352.2



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 103.792 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

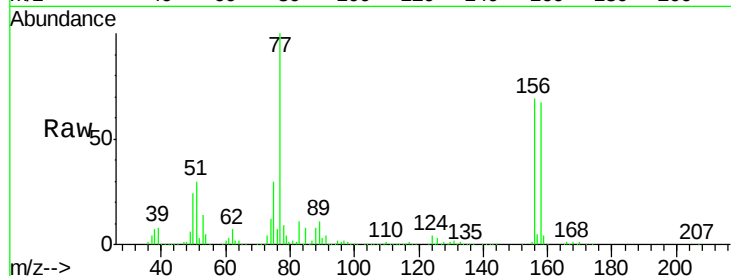
Tot Ion:156 Resp: 1140875

Ion Ratio Lower Upper

156 100

77 173.8 0.0 381.8

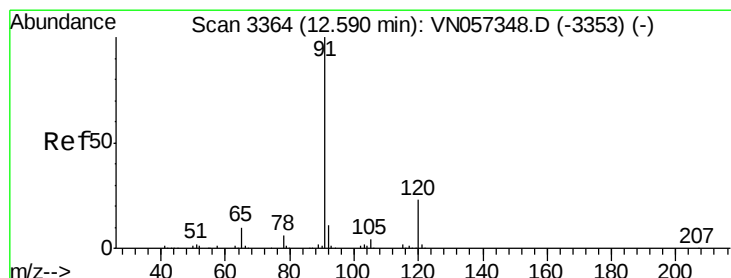
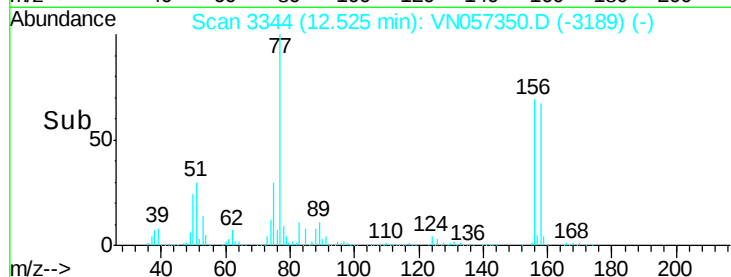
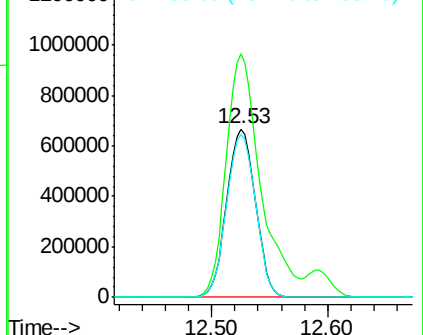
158 97.6 0.0 195.8



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: 109.166 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN057350.D

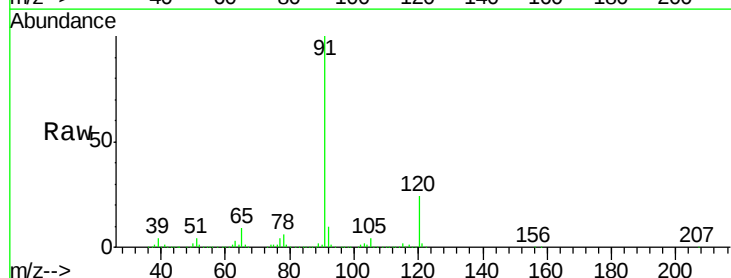
Acq: 16 Aug 2019 12:41

Tgt Ion: 91 Resp: 4600581

Ion Ratio Lower Upper

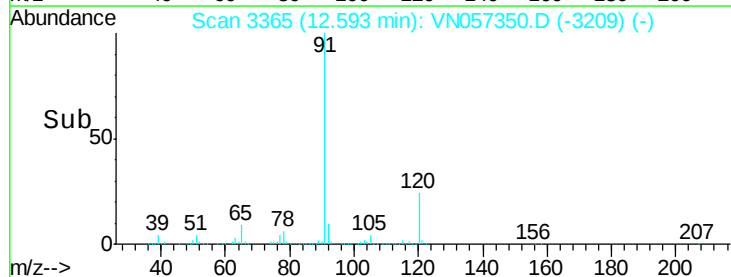
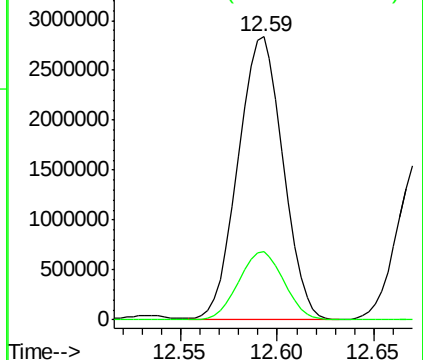
91 100

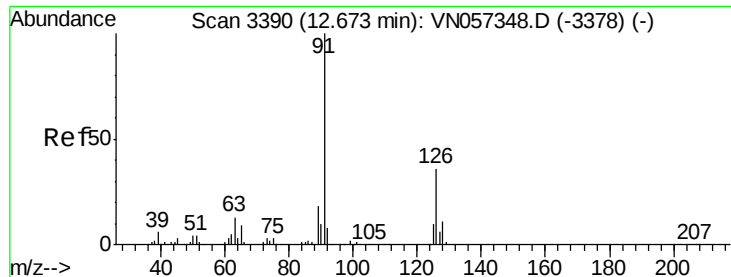
120 24.1 0.0 45.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 103.342 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

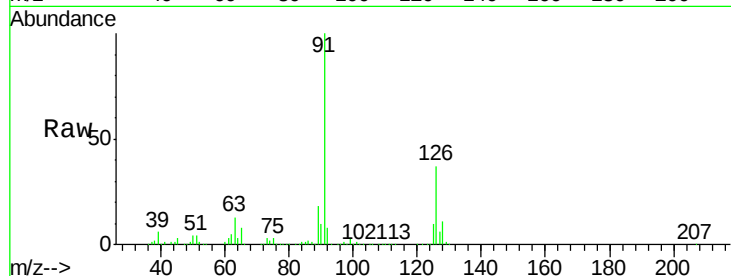
VSTDIC100

Tot Ion: 91 Resp: 2768405

Ion Ratio Lower Upper

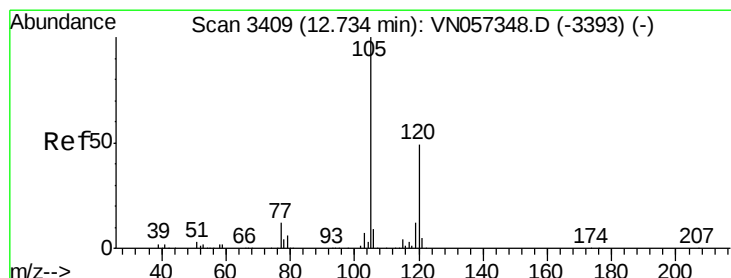
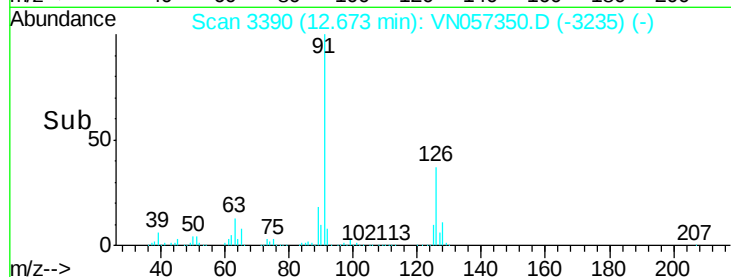
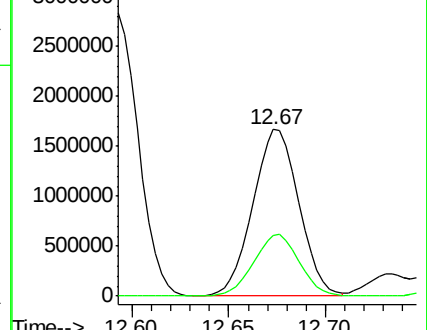
91 100

126 36.6 0.0 69.8



Abundance Ion 91.00 (90.70 to 91.70): VN057348.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN057348.D (-3378) (-)



#76

1,3,5-Trimethylbenzene

Concen: 102.554 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN057350.D

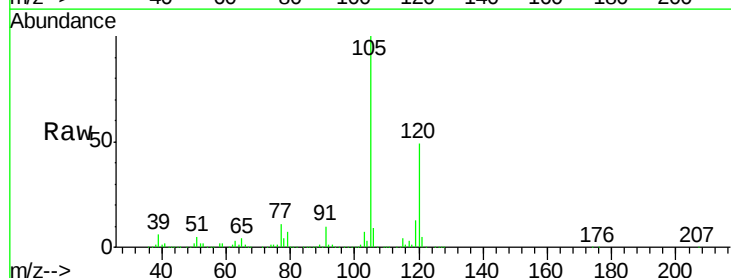
Acq: 16 Aug 2019 12:41

Tgt Ion:105 Resp: 3560961

Ion Ratio Lower Upper

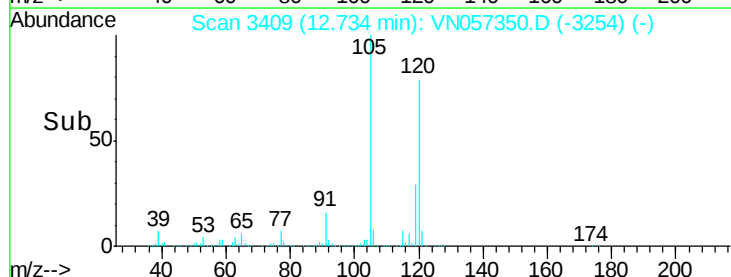
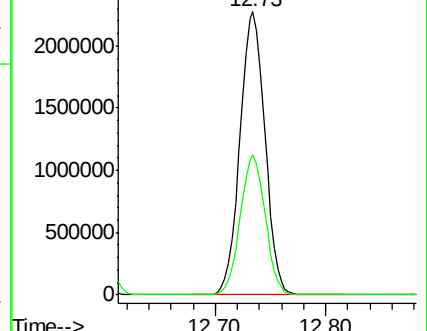
105 100

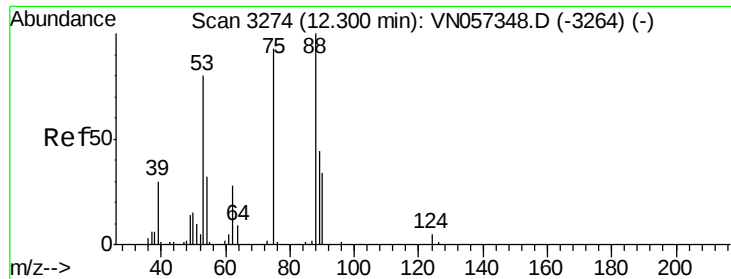
120 49.4 0.0 97.6



Abundance Ion 105.00 (104.70 to 105.70): VN057348.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN057348.D (-3393) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 115.633 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

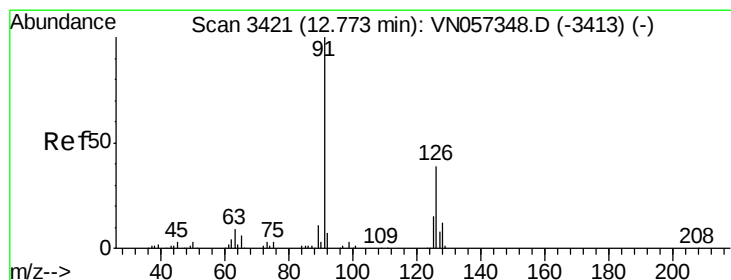
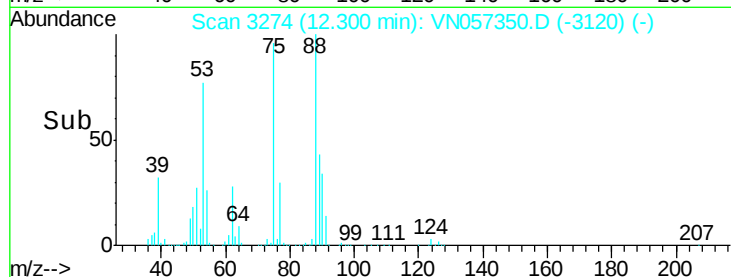
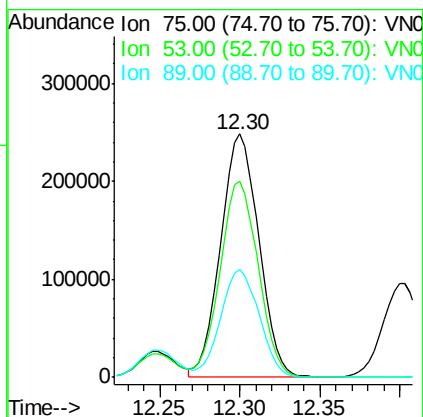
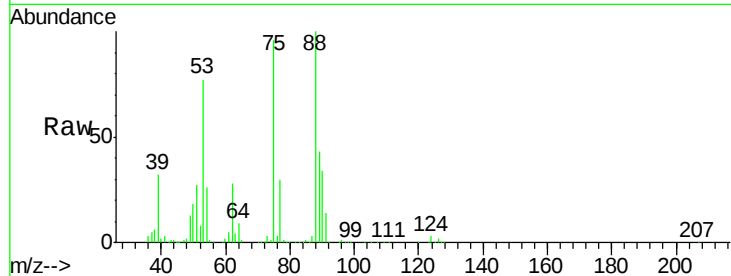
Tot Ion: 75 Resp: 406883

Ion Ratio Lower Upper

75 100

53 80.4 48.6 145.8

89 44.5 21.3 64.0



#78

4-Chlorotoluene

Concen: 114.426 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN057350.D

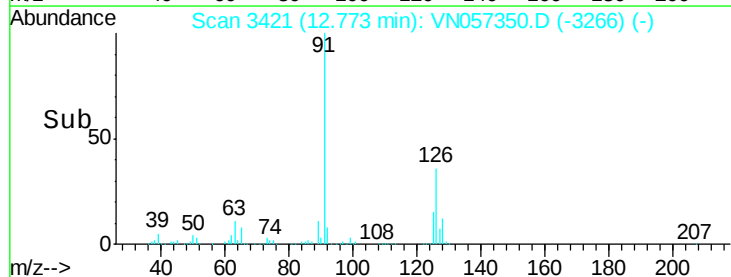
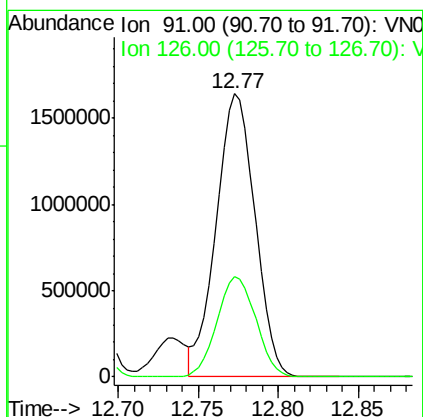
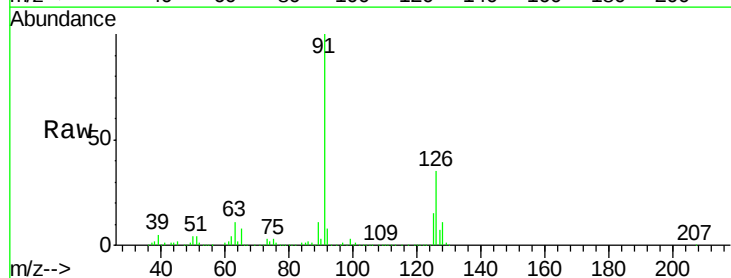
Acq: 16 Aug 2019 12:41

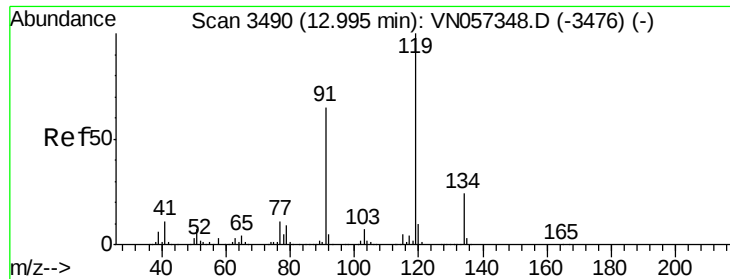
Tgt Ion: 91 Resp: 2735201

Ion Ratio Lower Upper

91 100

126 35.4 0.0 69.4

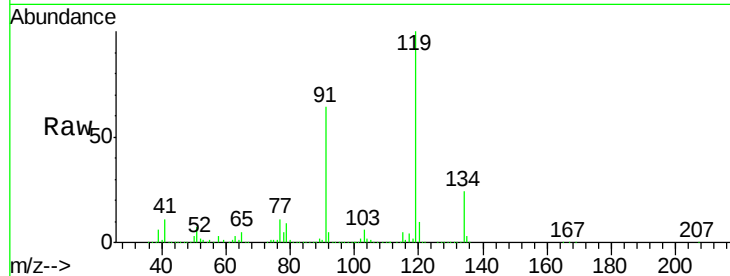




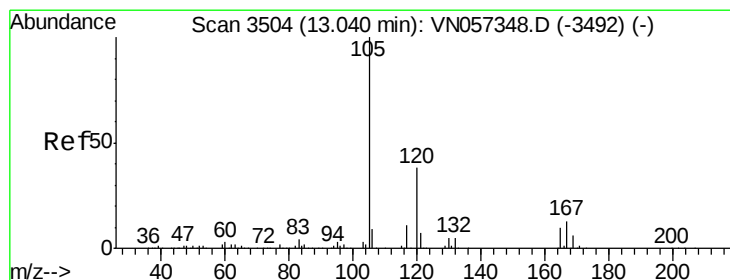
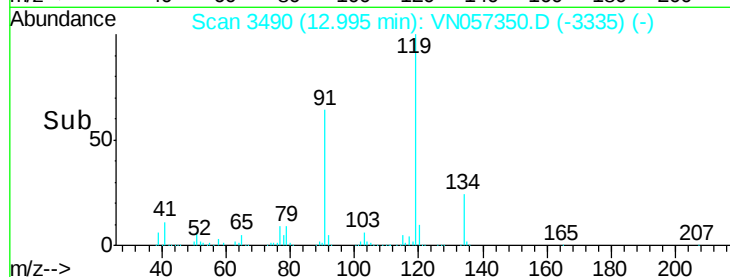
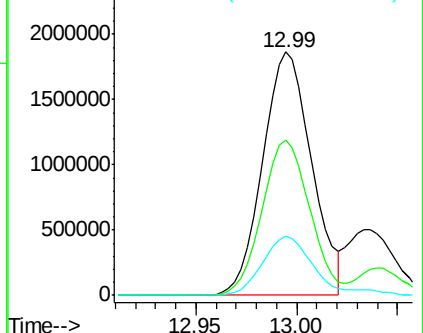
#79  
tert-butylbenzene  
Concen: 100.412 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

Tot Ion:119 Resp: 3139889  
Ion Ratio Lower Upper  
119 100  
91 62.3 0.0 125.4  
134 24.4 0.0 48.4

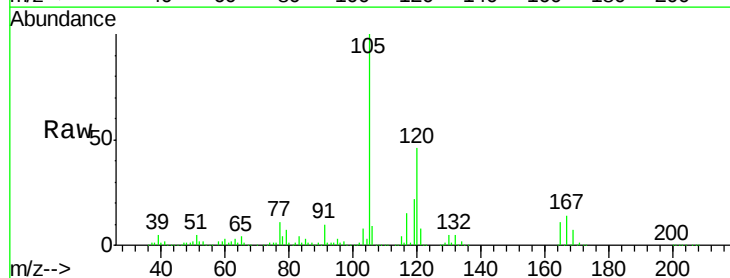


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

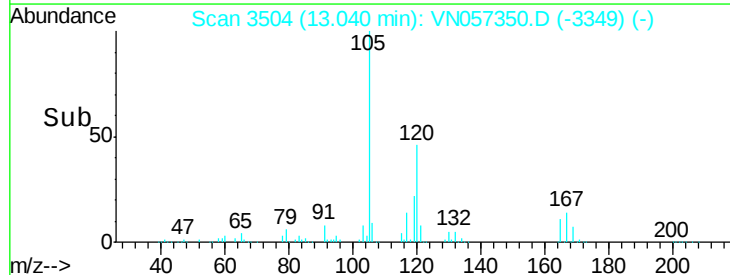
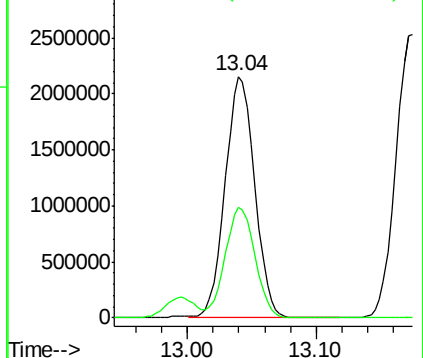


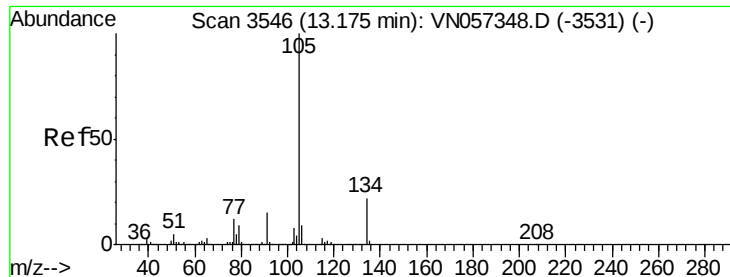
#80  
1,2,4-Trimethylbenzene  
Concen: 106.187 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion:105 Resp: 3417303  
Ion Ratio Lower Upper  
105 100  
120 46.1 0.0 91.2



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





#81

sec-Butylbenzene

Concen: 107.527 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

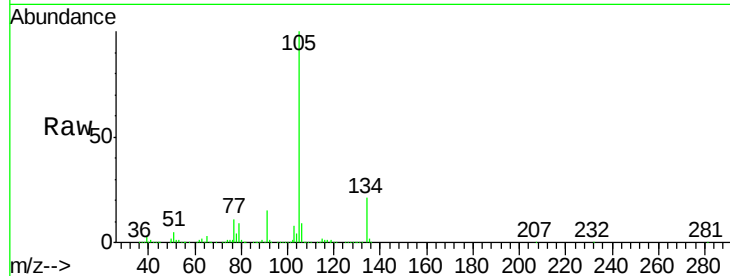
VSTDIC100

Tot Ion:105 Resp: 4022178

Ion Ratio Lower Upper

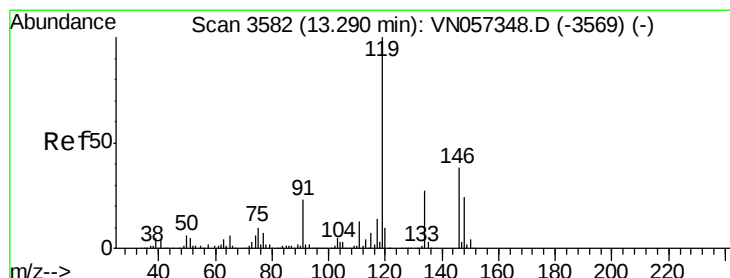
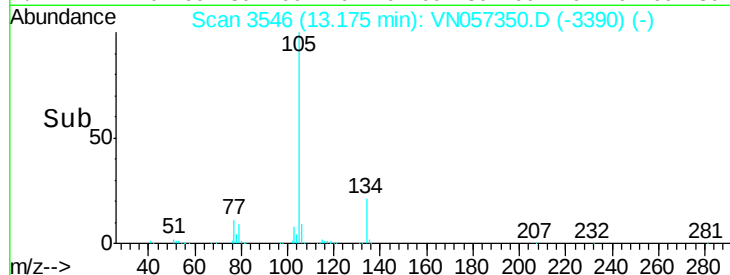
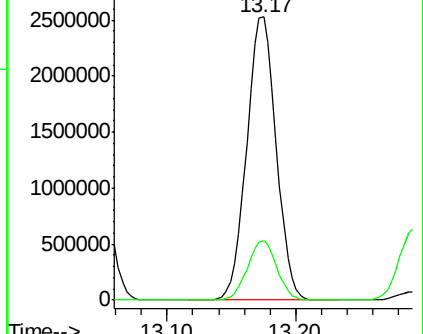
105 100

134 21.0 0.0 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 110.266 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

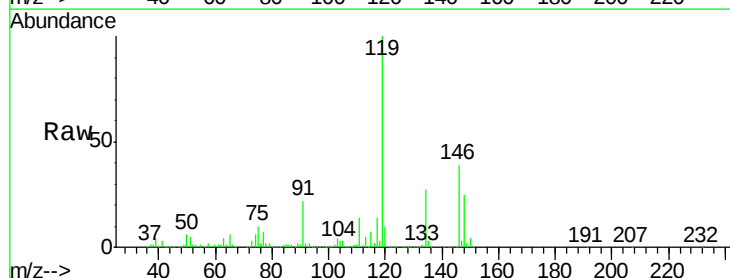
Tgt Ion:119 Resp: 3637912

Ion Ratio Lower Upper

119 100

134 26.8 0.0 52.8

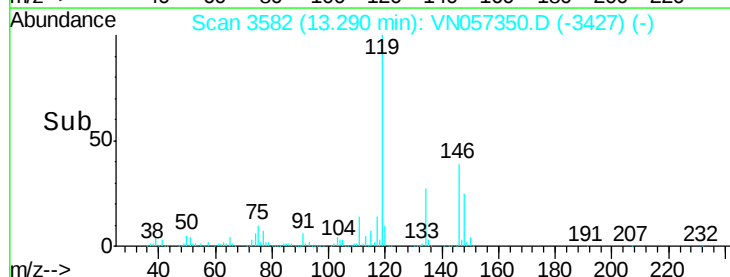
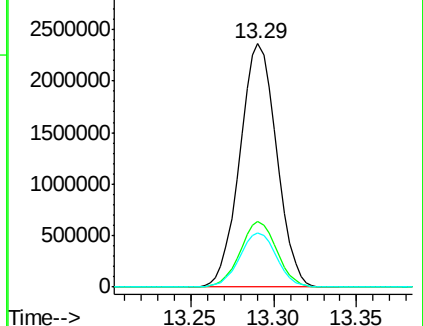
91 22.4 0.0 45.4

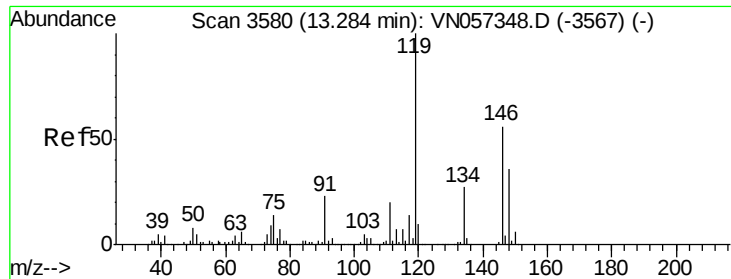


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

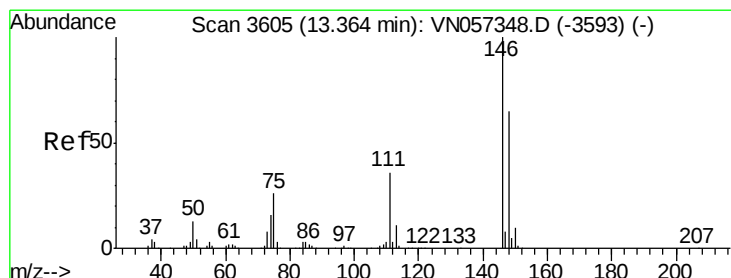
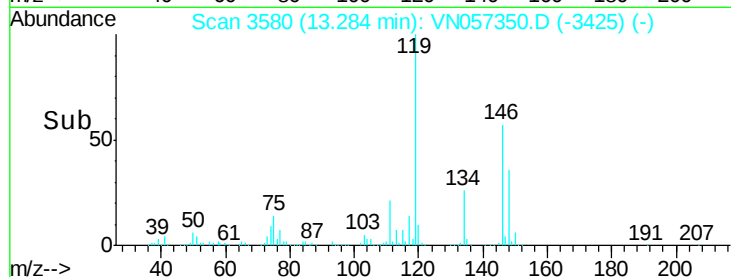
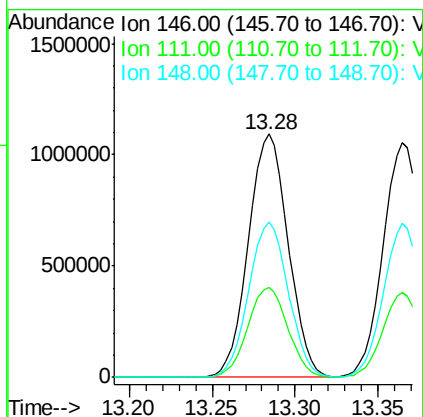
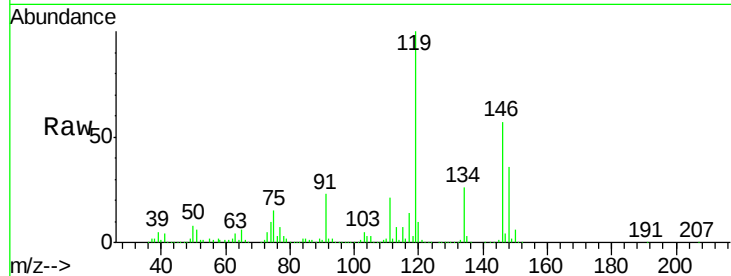




#83  
 1,3-Dichlorobenzene  
 Concen: 120.779 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. -0.00 min  
 Lab File: VN057350.D  
 Acq: 16 Aug 2019 12:41

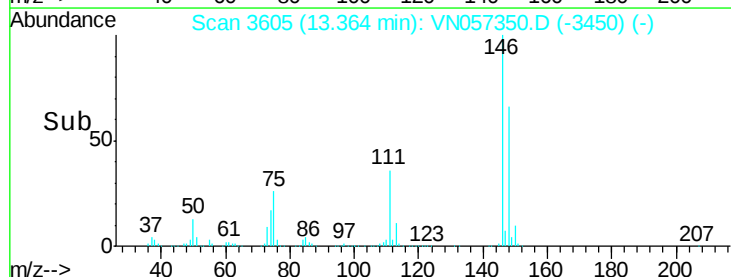
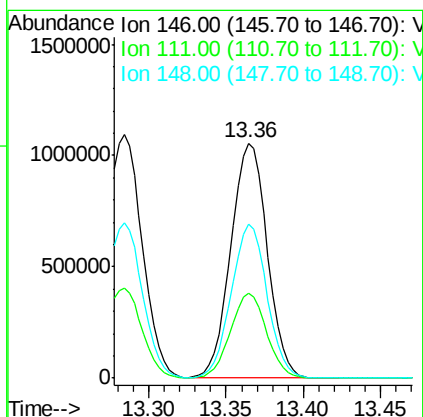
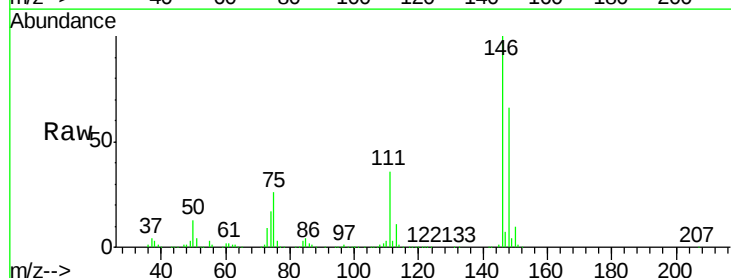
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC100

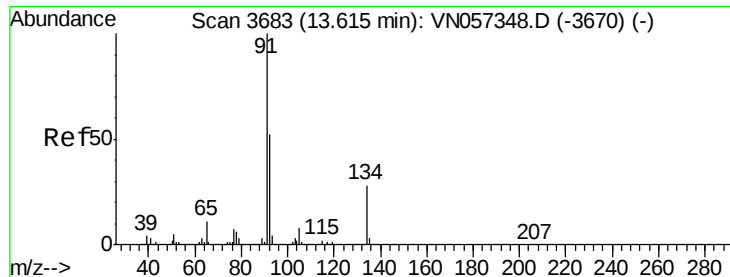
Tot Ion:146 Resp: 1824194  
 Ion Ratio Lower Upper  
 146 100  
 111 37.2 18.7 56.1  
 148 63.7 31.8 95.4



#84  
 1,4-Dichlorobenzene  
 Concen: 124.690 ug/l  
 RT: 13.36 min Scan# 3605  
 Delta R.T. -0.00 min  
 Lab File: VN057350.D  
 Acq: 16 Aug 2019 12:41

Tgt Ion:146 Resp: 1722545  
 Ion Ratio Lower Upper  
 146 100  
 111 35.8 17.8 53.4  
 148 64.5 31.9 95.5

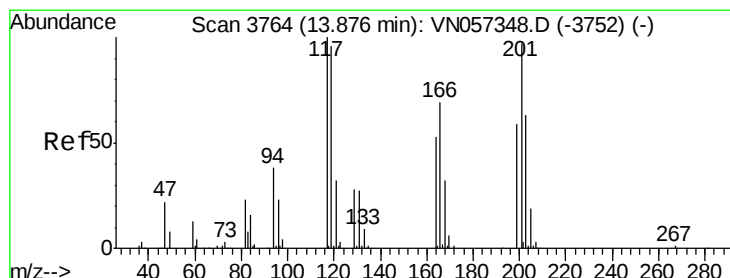
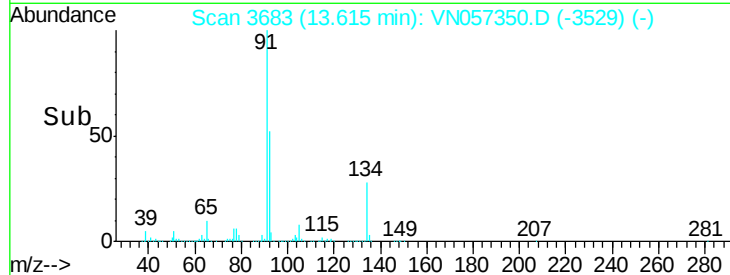
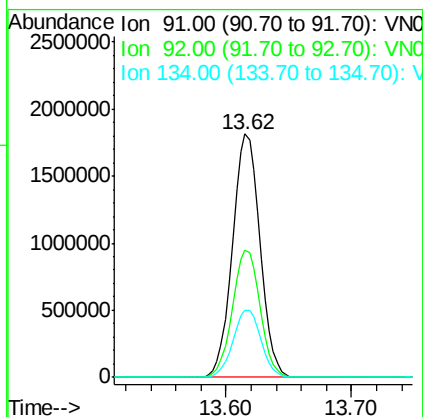
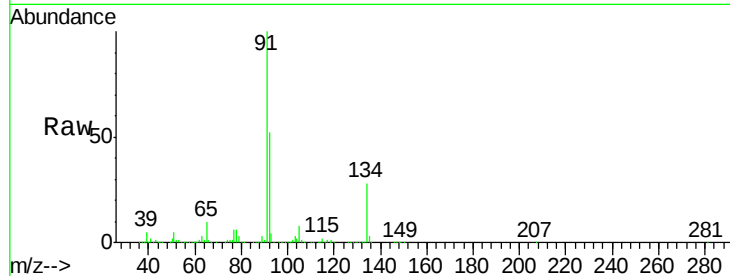




#85  
n-Butylbenzene  
Concen: 114.751 ug/l  
RT: 13.62 min Scan# 3683  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

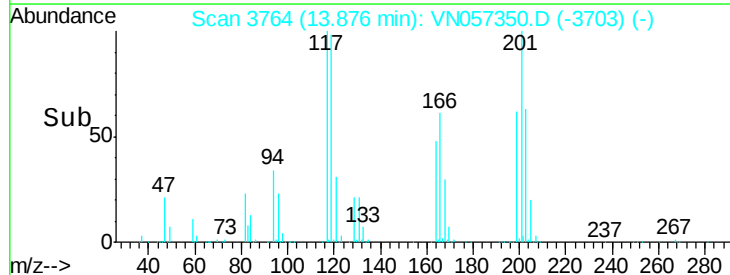
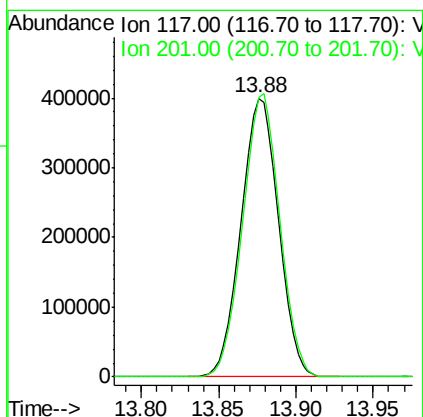
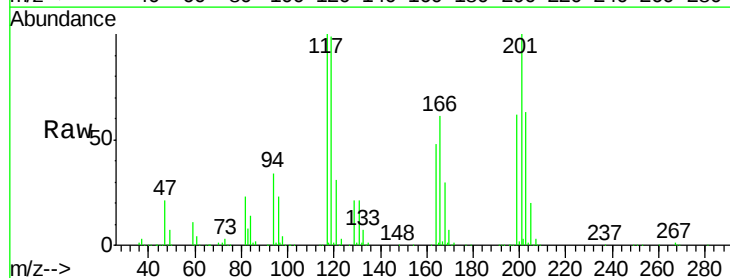
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

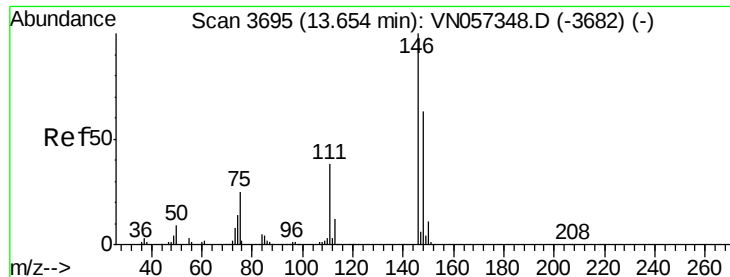
Tot Ion: 91 Resp: 2752089  
Ion Ratio Lower Upper  
91 100  
92 52.5 0.0 104.0  
134 28.1 0.0 53.2



#86  
Hexachloroethane  
Concen: 102.771 ug/l  
RT: 13.88 min Scan# 3764  
Delta R.T. -0.00 min  
Lab File: VN057350.D  
Acq: 16 Aug 2019 12:41

Tgt Ion: 117 Resp: 675798  
Ion Ratio Lower Upper  
117 100  
201 100.3 45.6 136.7

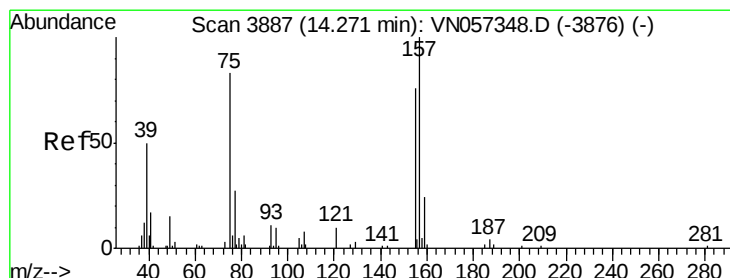
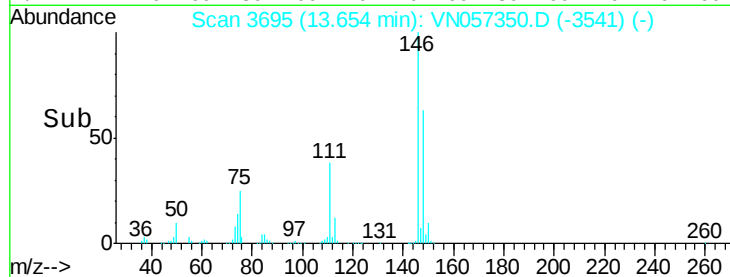
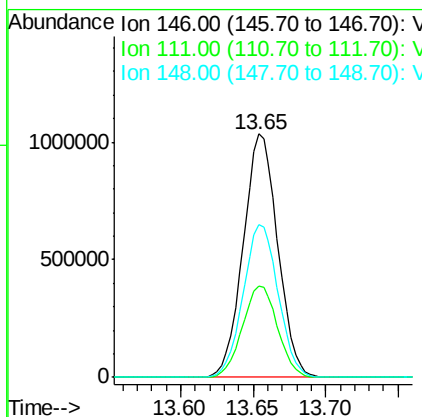
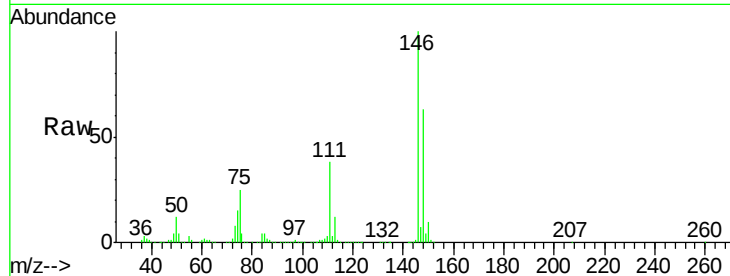




#87  
 1,2-Dichlorobenzene  
 Concen: 118.391 ug/l  
 RT: 13.65 min Scan# 3695  
 Delta R.T. -0.00 min  
 Lab File: VN057350.D  
 Acq: 16 Aug 2019 12:41

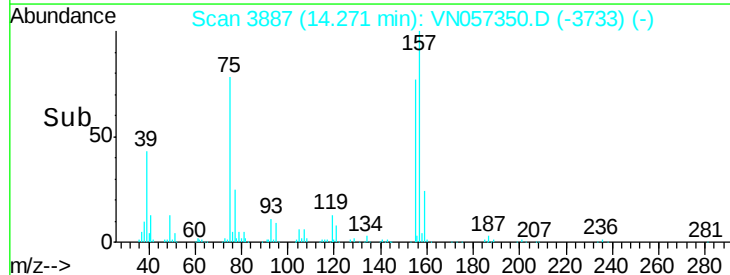
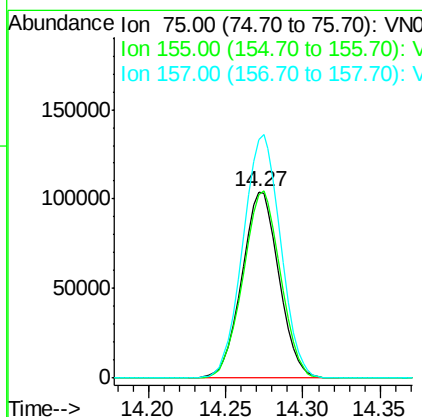
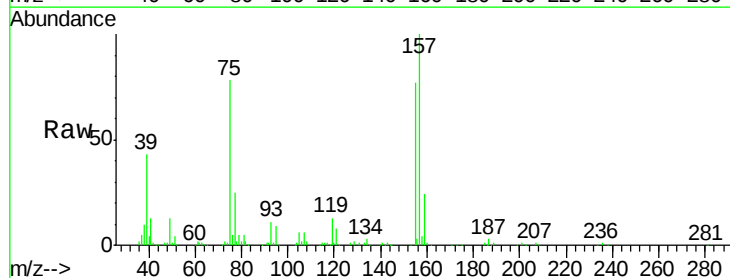
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VSTDIC100

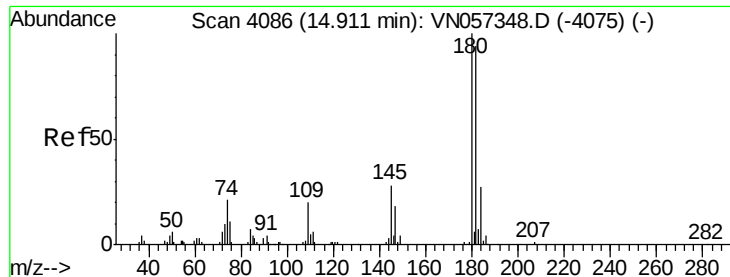
Tot Ion:146 Resp: 1713288  
 Ion Ratio Lower Upper  
 146 100  
 111 38.3 19.7 59.0  
 148 63.7 32.7 98.1



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 126.104 ug/l  
 RT: 14.27 min Scan# 3887  
 Delta R.T. -0.00 min  
 Lab File: VN057350.D  
 Acq: 16 Aug 2019 12:41

Tgt Ion: 75 Resp: 173497  
 Ion Ratio Lower Upper  
 75 100  
 155 101.6 78.6 117.8  
 157 133.2 99.3 148.9

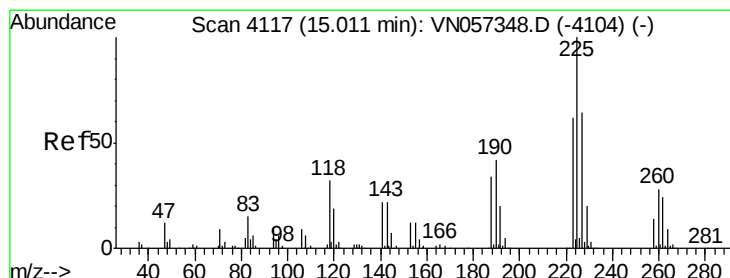
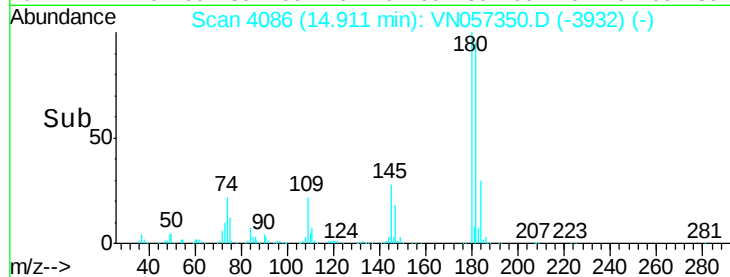
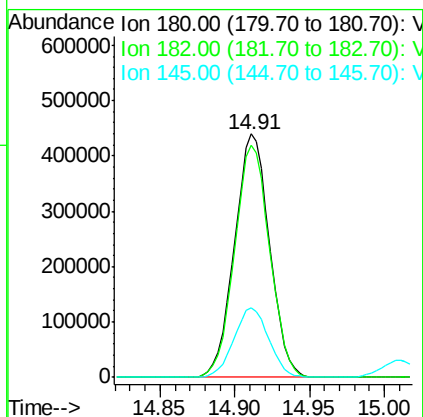
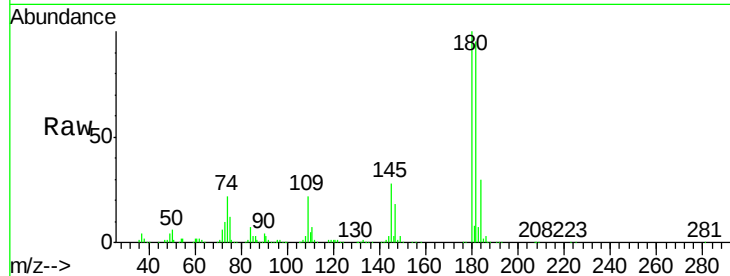




#89  
 1,2,4-Trichlorobenzene  
 Concen: 178.377 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. -0.00 min  
 Lab File: VN057350.D  
 Acq: 16 Aug 2019 12:41

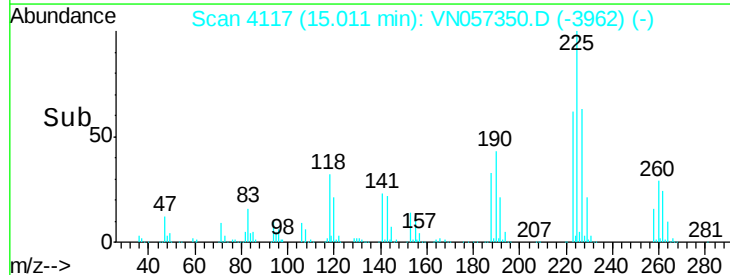
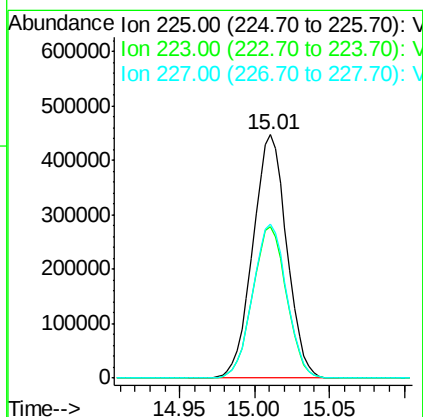
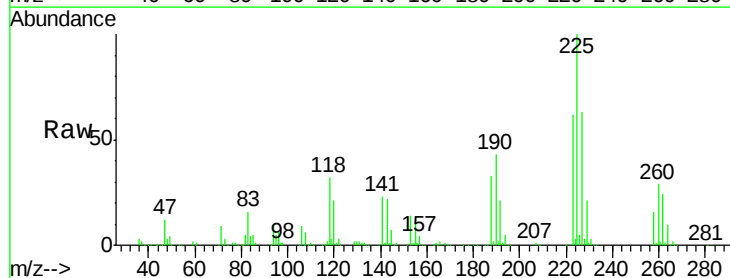
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC100

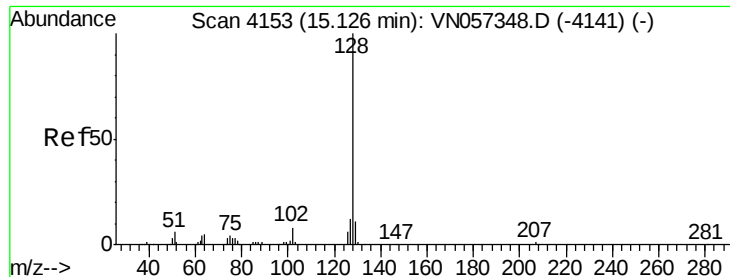
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 78.2  | 117.4 |
| 145     | 28.4  | 23.2  | 34.8  |



#90  
 Hexachlorobutadiene  
 Concen: 98.610 ug/l  
 RT: 15.01 min Scan# 4117  
 Delta R.T. -0.00 min  
 Lab File: VN057350.D  
 Acq: 16 Aug 2019 12:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.5  | 0.0   | 124.6 |
| 227     | 63.8  | 0.0   | 128.6 |





#91

Naphthalene

Concen: 192.286 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

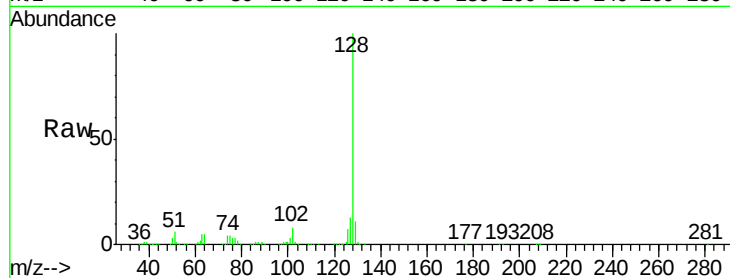
Tot Ion:128 Resp: 1532964

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

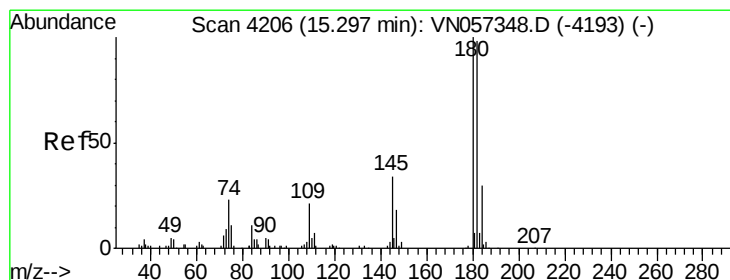
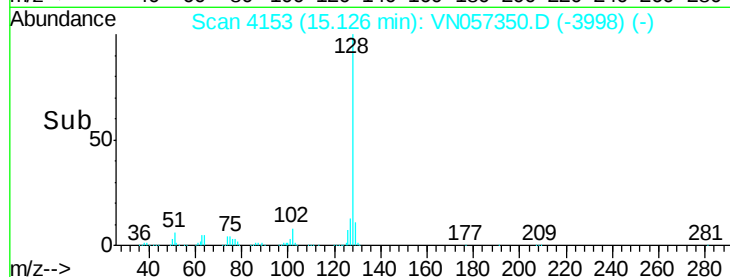
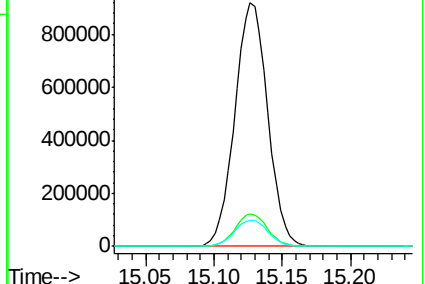
129 11.0 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 164.796 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057350.D

Acq: 16 Aug 2019 12:41

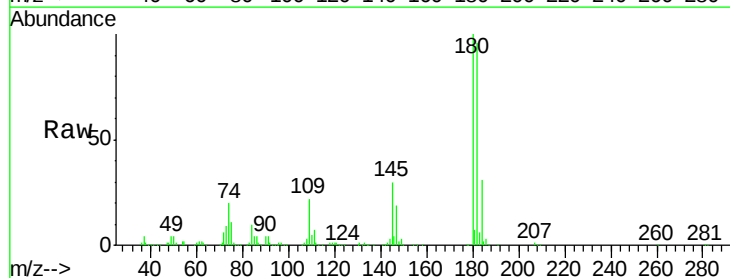
Tgt Ion:180 Resp: 628847

Ion Ratio Lower Upper

180 100

182 95.9 0.0 192.4

145 30.1 0.0 60.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

