

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\  
 Data File : VN052881.D  
 Acq On : 14 Dec 2018 11:42  
 Operator : MD\SY  
 Sample : VN1214WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 15 02:52:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Nov 27 00:48:33 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 160019   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 937734   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 820144   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 27) 1,2-Dichloroethane-d4 | 8.03   | 65    | 315225   | 28.91    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 96.37% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 374836   | 29.89    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 99.63% |
| 63) Toluene-d8            | 10.09  | 98    | 1106478  | 29.10    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 97.00% |

## Target Compounds

|                               |      |     |        |        | Ovalue     |
|-------------------------------|------|-----|--------|--------|------------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 162065 | 17.783 | ug/l 100   |
| 3) Chloromethane              | 2.06 | 50  | 216715 | 17.930 | ug/l 100   |
| 4) Vinyl Chloride             | 2.19 | 62  | 225212 | 18.462 | ug/l 95    |
| 5) Bromomethane               | 2.58 | 94  | 139967 | 20.123 | ug/l 99    |
| 6) Chloroethane               | 2.71 | 64  | 139650 | 19.250 | ug/l 100   |
| 7) Trichlorofluoromethane     | 3.03 | 101 | 293199 | 19.475 | ug/l 100   |
| 8) Diethyl Ether              | 3.41 | 74  | 113909 | 20.490 | ug/l 90    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.77 | 101 | 188347 | 19.735 | ug/l 97    |
| 10) 1,1-Dichloroethene        | 3.74 | 96  | 180079 | 20.068 | ug/l 97    |
| 11) Methyl Iodide             | 3.96 | 142 | 218043 | 17.501 | ug/l 99    |
| 12) Methyl Acetate            | 4.33 | 43  | 150292 | 19.712 | ug/l 99    |
| 13) Acrolein                  | 3.61 | 56  | 84257  | 94.077 | ug/l 99    |
| 14) Acrylonitrile             | 4.99 | 53  | 317207 | 97.643 | ug/l 97    |
| 15) Acetone                   | 3.82 | 58  | 77018  | 91.543 | ug/l 91    |
| 16) Carbon Disulfide          | 4.06 | 76  | 489265 | 17.222 | ug/l 100   |
| 17) Allyl chloride            | 4.33 | 41  | 293922 | 18.782 | ug/l 97    |
| 18) Methylene Chloride        | 4.56 | 84  | 208065 | 20.025 | ug/l 94    |
| 19) trans-1,2-Dichloroethene  | 5.05 | 96  | 191129 | 19.792 | ug/l 93    |
| 20) Diisopropyl ether         | 5.95 | 45  | 635709 | 19.330 | ug/l 97    |
| 21) 1,1-Dichloroethane        | 5.85 | 63  | 371686 | 19.829 | ug/l 99    |
| 22) cis-1,2-Dichloroethene    | 6.83 | 96  | 224891 | 20.320 | ug/l 98    |
| 23) tert-Butyl Alcohol        | 4.77 | 59  | 23446  | 48.515 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 5.05 | 73  | 486472 | 20.665 | ug/l 97    |
| 25) Chloroform                | 7.37 | 83  | 364463 | 20.155 | ug/l 100   |
| 26) Cyclohexane               | 7.66 | 56  | 320689 | 18.140 | ug/l # 96  |
| 29) 1,1-Dichloropropene       | 7.79 | 75  | 275887 | 19.266 | ug/l 98    |
| 30) 2-Butanone                | 6.84 | 43  | 360996 | 94.209 | ug/l 98    |
| 31) 2,2-Dichloropropane       | 6.83 | 77  | 266819 | 20.239 | ug/l 99    |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 295493 | 19.831 | ug/l 97    |
| 33) Carbon Tetrachloride      | 7.78 | 117 | 260335 | 19.968 | ug/l 98    |
| 34) Benzene                   | 8.04 | 78  | 844108 | 19.606 | ug/l 98    |
| 35) Methacrylonitrile         | 7.18 | 41  | 97203  | 20.446 | ug/l 97    |
| 36) 1,2-Dichloroethane        | 8.13 | 62  | 258223 | 19.792 | ug/l 100   |
| 37) Trichloroethene           | 8.84 | 130 | 224441 | 20.558 | ug/l 98    |
| 38) Methylcyclohexane         | 9.08 | 83  | 324475 | 18.304 | ug/l 97    |
| 39) 1,2-Dichloropropane       | 9.12 | 63  | 223565 | 19.371 | ug/l 96    |
| 40) Dibromomethane            | 9.21 | 93  | 128227 | 20.560 | ug/l 96    |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 41) Bromodichloromethane       | 9.40  | 83   | 273389   | 19.841  | ug/l   | 97       |
| 42) Vinyl Acetate              | 5.90  | 43   | 1872586  | 90.320  | ug/l   | 98       |
| 43) Ethyl Acetate              | 6.93  | 43   | 138471   | 16.994  | ug/l # | 62       |
| 44) Isopropyl Acetate          | 8.17  | 43   | 294866   | 20.634  | ug/l # | 79       |
| 45) 1,4-Dioxane                | 9.20  | 88   | 32197    | 411.855 | ug/l   | 92       |
| 46) Methyl methacrylate        | 9.20  | 41   | 145167   | 19.565  | ug/l   | 96       |
| 47) n-amyl Acetate             | 12.07 | 43   | 237525   | 20.047  | ug/l   | 99       |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 262312   | 19.634  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene    | 9.84  | 75   | 317626   | 19.513  | ug/l   | 98       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 184568   | 20.878  | ug/l   | 100      |
| 51) Ethyl methacrylate         | 10.43 | 69   | 222869   | 20.073  | ug/l   | 95       |
| 52) 1,3-Dichloropropane        | 10.71 | 76   | 315409   | 20.044  | ug/l   | 100      |
| 53) Dibromochloromethane       | 10.90 | 129  | 200224   | 20.572  | ug/l   | 98       |
| 54) 1,2-Dibromoethane          | 11.01 | 107  | 176872   | 20.475  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether  | 9.70  | 63   | 667515   | 102.706 | ug/l   | 98       |
| 56) Bromoform                  | 12.13 | 173  | 130674   | 20.540  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone       | 9.99  | 43   | 796231   | 100.141 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.75 | 43   | 536504   | 98.777  | ug/l   | 98       |
| 61) Tetrachloroethene          | 10.63 | 164  | 232048   | 22.973  | ug/l   | 96       |
| 62) Toluene                    | 10.16 | 91   | 903688   | 19.988  | ug/l   | 100      |
| 64) Chlorobenzene              | 11.44 | 112  | 560568   | 20.313  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 201591   | 21.045  | ug/l   | 99       |
| 66) Ethyl Benzene              | 11.51 | 91   | 967404   | 19.853  | ug/l   | 98       |
| 67) m/p-Xylenes                | 11.62 | 106  | 735921   | 40.538  | ug/l   | 98       |
| 68) o-Xylene                   | 11.95 | 106  | 361295   | 20.505  | ug/l   | 98       |
| 69) Styrene                    | 11.96 | 104  | 577161   | 20.294  | ug/l   | 99       |
| 70) Isopropylbenzene           | 12.25 | 105  | 970758   | 20.707  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 207237   | 20.321  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 259563   | 29.649  | ug/l   | 49       |
| 73) Bromobenzene               | 12.53 | 156  | 242548   | 21.391  | ug/l   | 94       |
| 74) n-propylbenzene            | 12.59 | 91   | 1085142  | 19.866  | ug/l   | 98       |
| 75) 2-Chlorotoluene            | 12.68 | 91   | 649392   | 20.482  | ug/l   | 98       |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 774118   | 20.443  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 53328    | 19.283  | ug/l   | 94       |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 650490   | 20.544  | ug/l   | 99       |
| 79) tert-butylbenzene          | 12.99 | 119  | 690662   | 20.943  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 779556   | 20.574  | ug/l   | 100      |
| 81) sec-Butylbenzene           | 13.17 | 105  | 915134   | 19.923  | ug/l   | 98       |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 789843   | 20.194  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 422696   | 21.196  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 411050   | 21.334  | ug/l   | 99       |
| 85) n-Butylbenzene             | 13.62 | 91   | 631394   | 18.793  | ug/l   | 98       |
| 86) Hexachloroethane           | 13.88 | 117  | 129397   | 19.525  | ug/l   | 95       |
| 87) 1,2-Dichlorobenzene        | 13.65 | 146  | 411095   | 21.663  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 30349    | 21.245  | ug/l   | 98       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 204161   | 21.836  | ug/l   | 99       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 126882   | 20.687  | ug/l   | 98       |
| 91) Naphthalene                | 15.13 | 128  | 400469   | 21.211  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 190217   | 22.077  | ug/l   | 96       |

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ALS Vial : 6 Sample Multiplier: 28

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ClientSampleId :

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QLast Update : Tue Nov 27 00:48:33 2018  
Response via : Initial Calibration

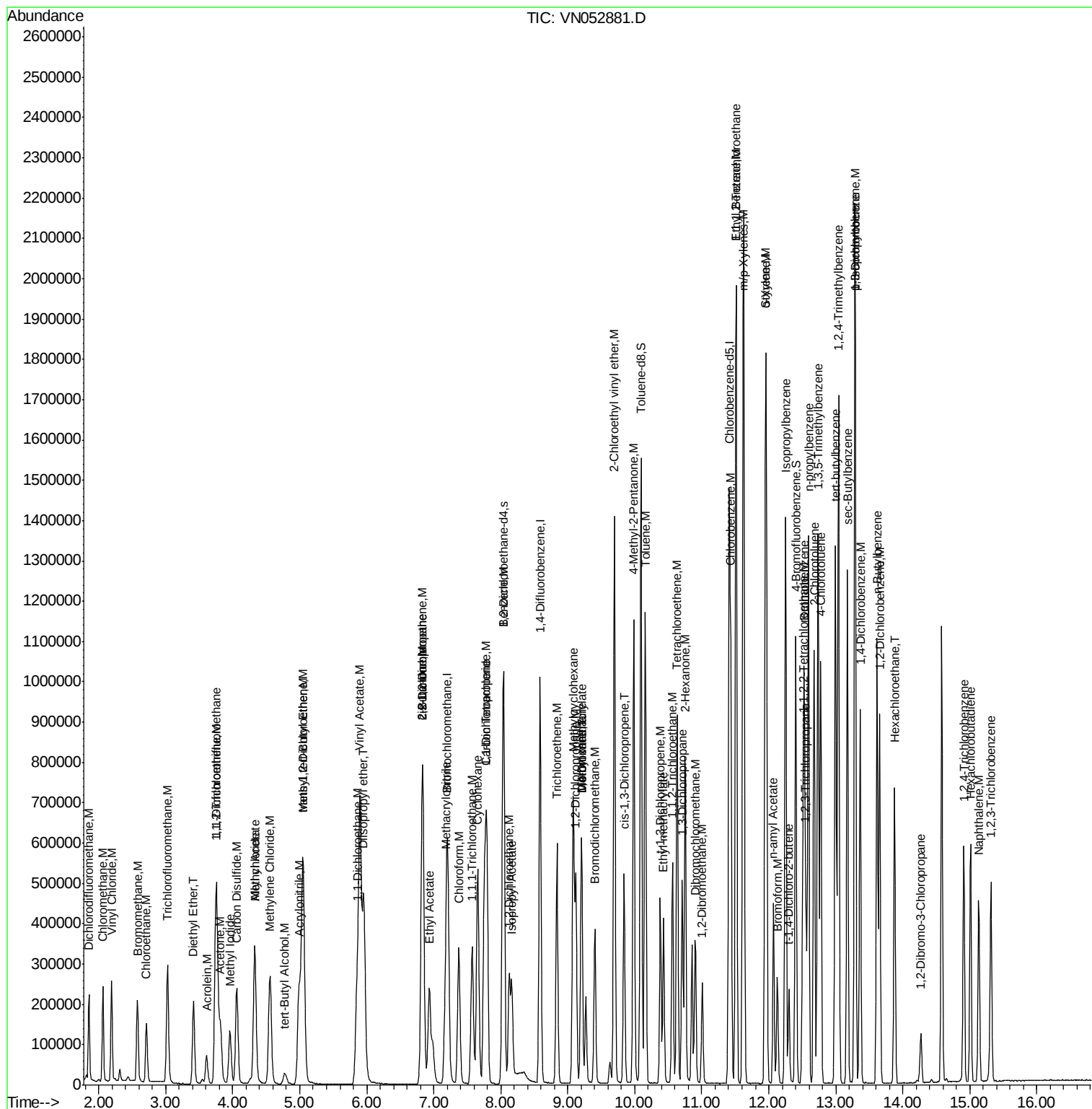
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

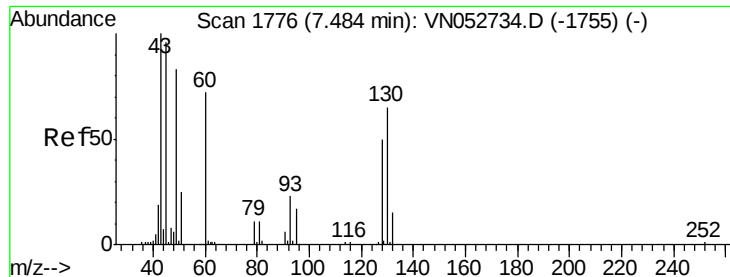
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121418\  
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :  
MSVOA\_N  
ClientSampled :

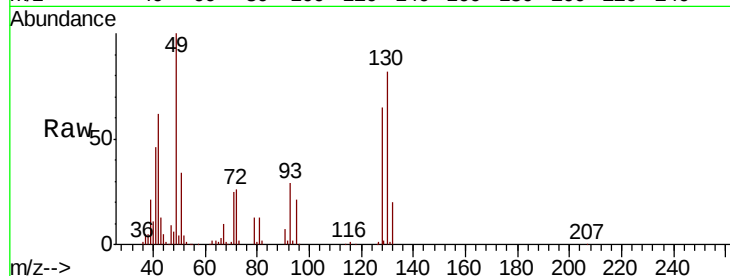
Tot Ion:128 Resp: 160019

Ion Ratio Lower Upper

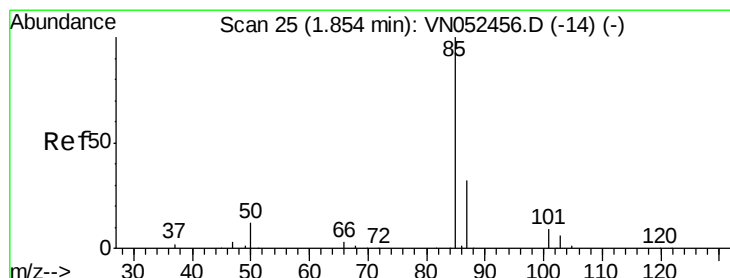
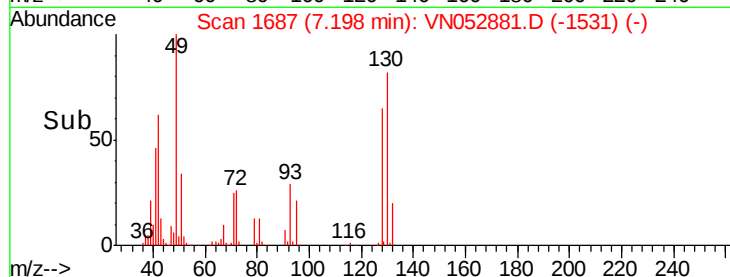
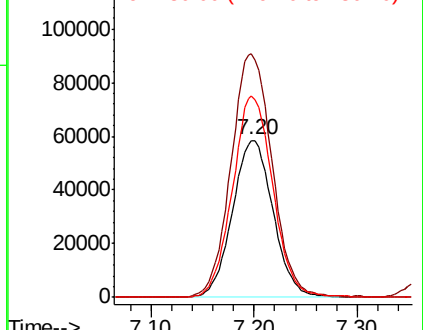
128 100

49 157.2 0.0 431.8

130 128.2 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VN  
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 17.783 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052881.D

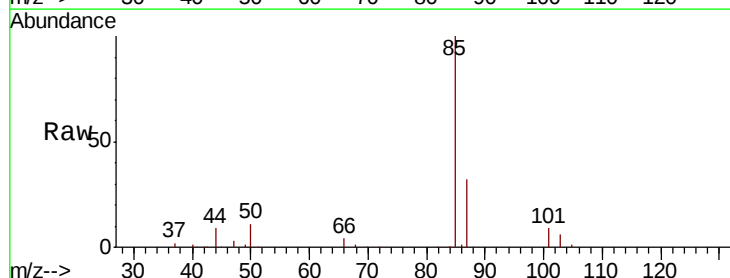
Acq: 14 Dec 2018 11:42

Tgt Ion: 85 Resp: 162065

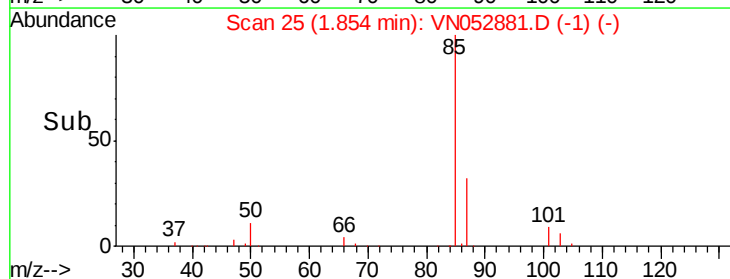
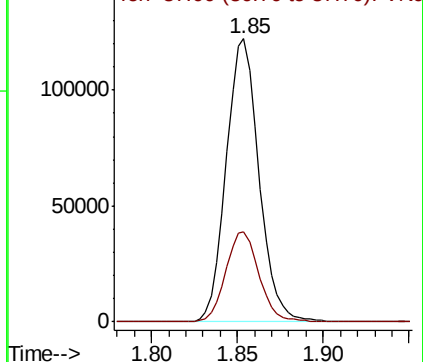
Ion Ratio Lower Upper

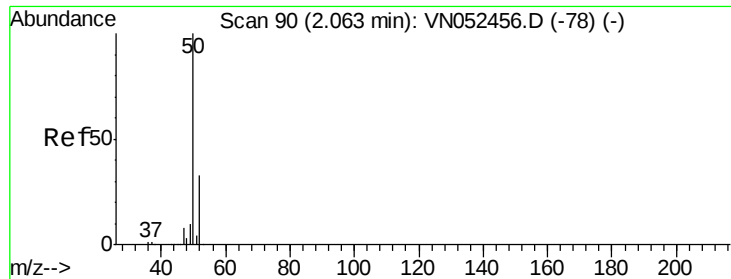
85 100

87 31.9 16.1 48.3



Abundance Ion 85.00 (84.70 to 85.70): VN  
Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 17.930 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

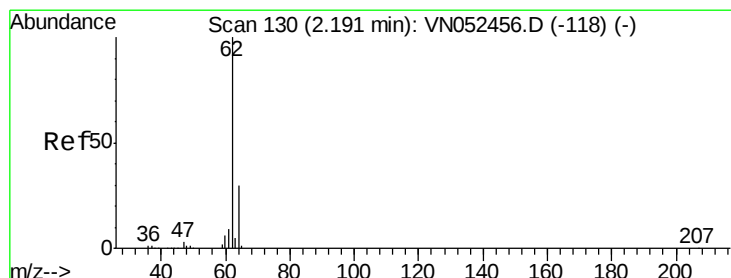
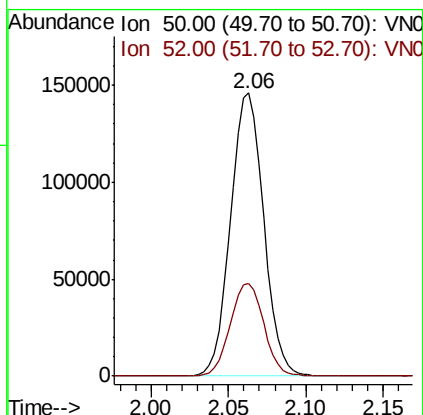
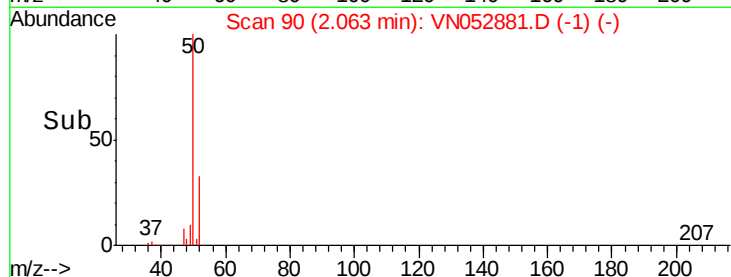
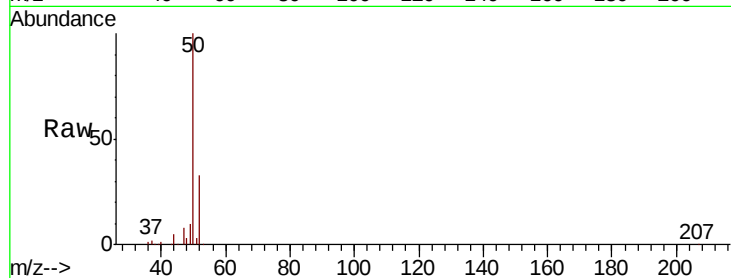
ClientSampleId :

Tot Ion: 50 Resp: 216715

Ion Ratio Lower Upper

50 100

52 32.8 26.5 39.7



#4

Vinyl Chloride

Concen: 18.462 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052881.D

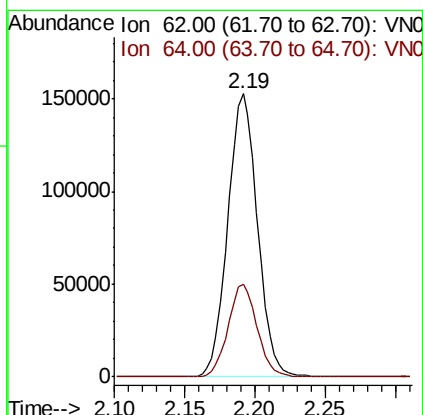
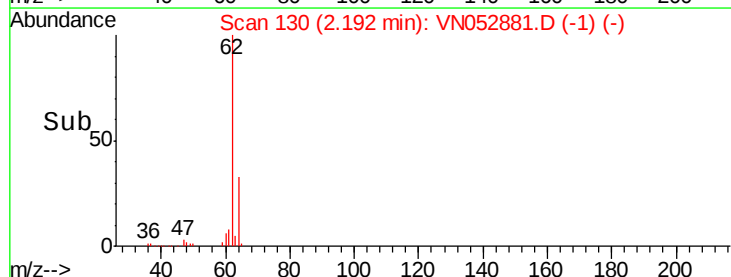
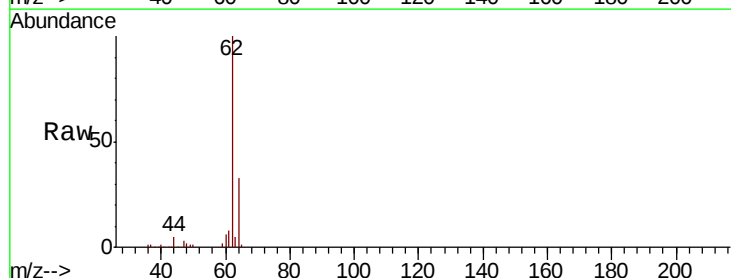
Acq: 14 Dec 2018 11:42

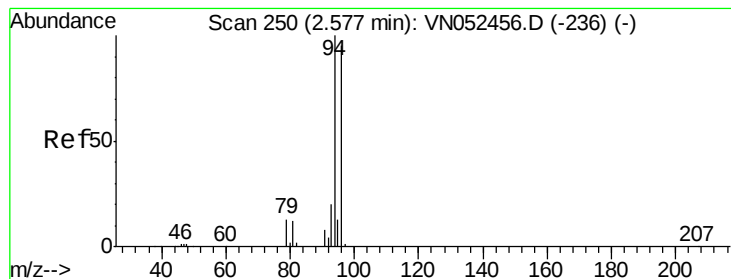
Tgt Ion: 62 Resp: 225212

Ion Ratio Lower Upper

62 100

64 32.8 24.2 36.4





#5

Bromomethane

Concen: 20.123 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

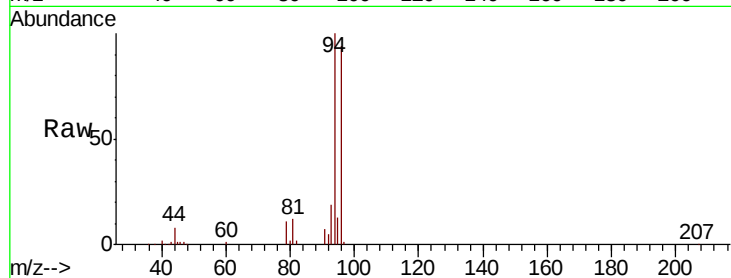
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 94 Resp: 139967

Ion Ratio Lower Upper

94 100

96 94.2 76.2 114.2



Abundance Ion 94.00 (93.70 to 94.70): VN052881.D (-94) (-)

Ion 96.00 (95.70 to 96.70): VN052881.D (-96) (-)

2.58

80000

60000

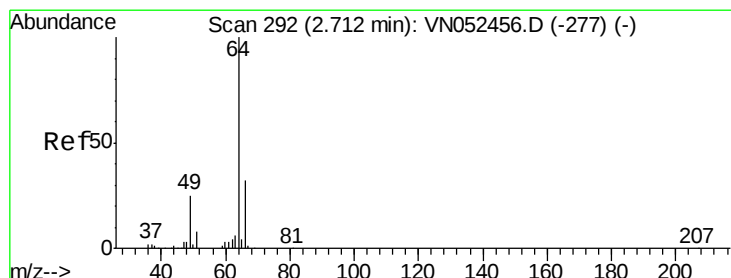
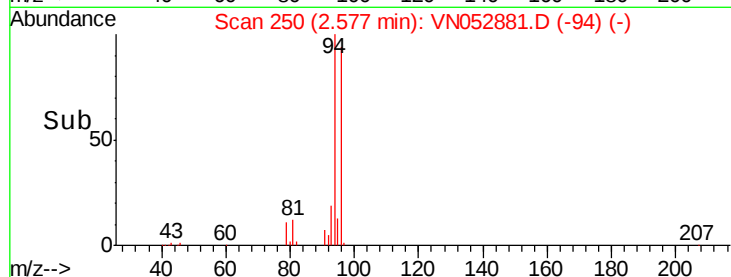
40000

20000

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 19.250 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052881.D

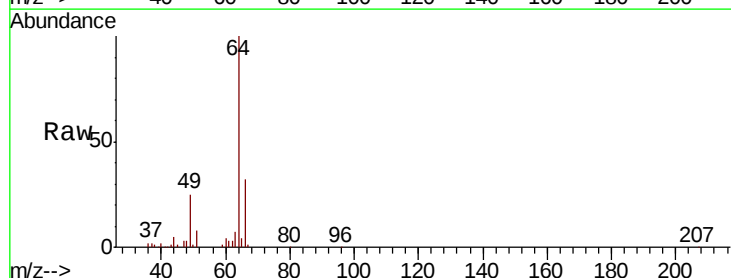
Acq: 14 Dec 2018 11:42

Tgt Ion: 64 Resp: 139650

Ion Ratio Lower Upper

64 100

66 32.0 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VN052881.D (-136) (-)

Ion 66.00 (65.70 to 66.70): VN052881.D (-136) (-)

2.71

80000

60000

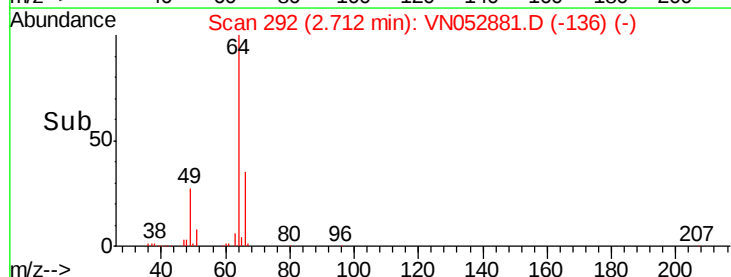
40000

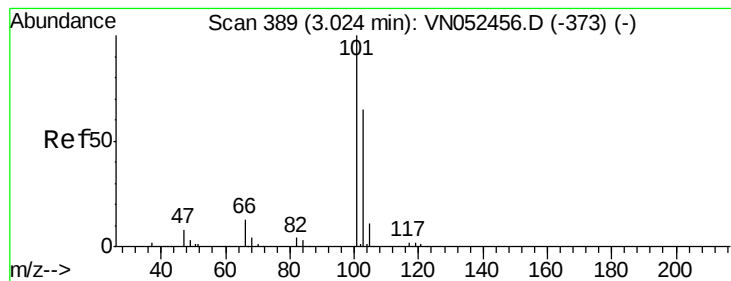
20000

0

Time-->

2.65 2.70 2.75 2.80



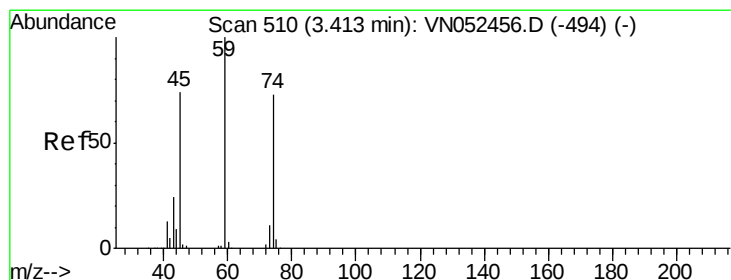
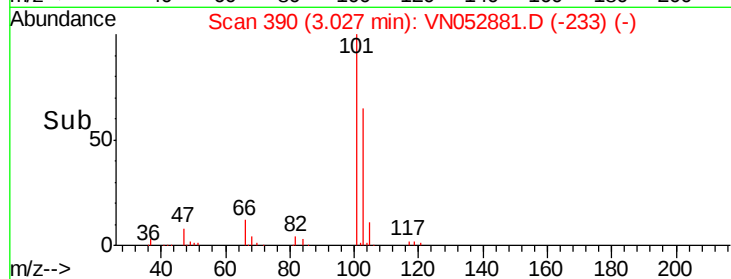
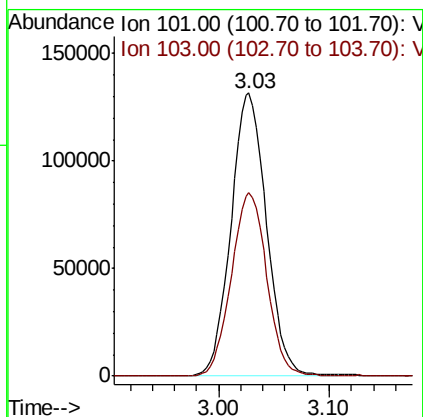
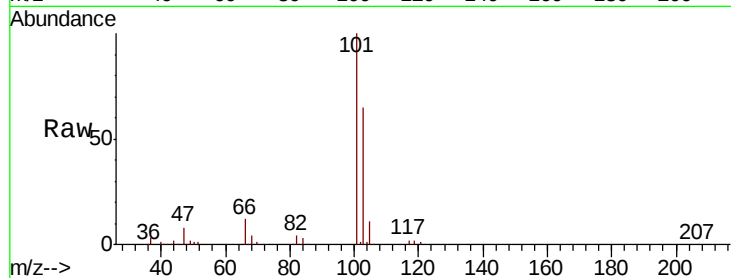


#7

Trichlorofluoromethane  
 Concen: 19.475 ug/l  
 RT: 3.03 min Scan# 390  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

Instrument :  
 MSVOA\_N  
 ClientSampleId :

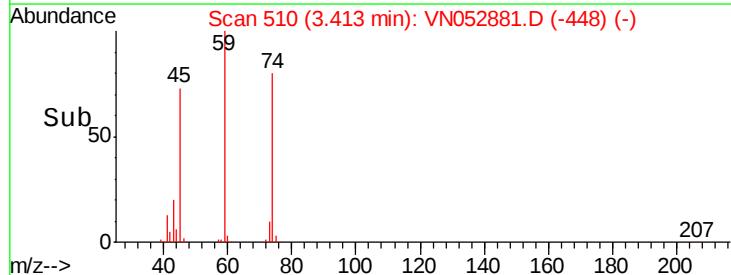
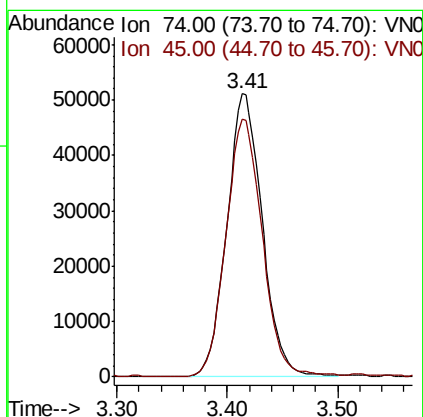
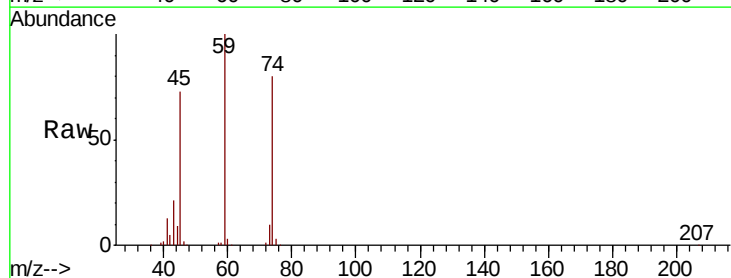
Tot Ion:101 Resp: 293199  
 Ion Ratio Lower Upper  
 101 100  
 103 64.8 52.1 78.1

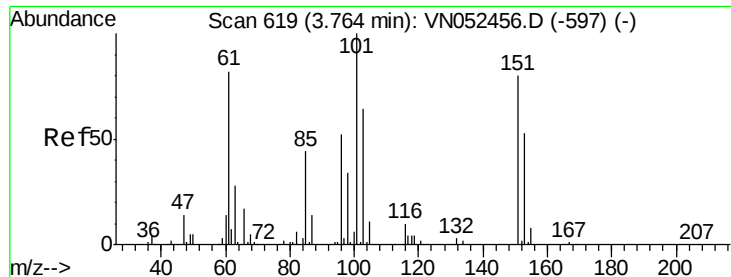


#8

Diethyl Ether  
 Concen: 20.490 ug/l  
 RT: 3.41 min Scan# 510  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

Tgt Ion: 74 Resp: 113909  
 Ion Ratio Lower Upper  
 74 100  
 45 92.5 20.6 185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.735 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampleId :

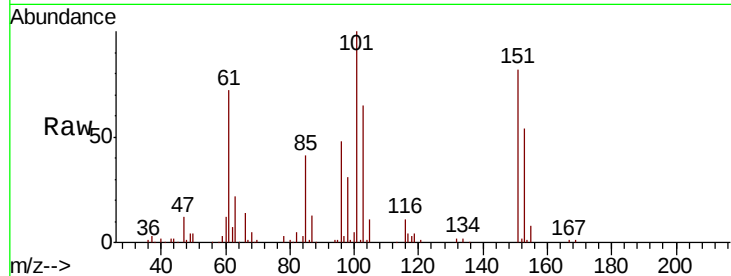
Tot Ion:101 Resp: 188347

Ion Ratio Lower Upper

101 100

85 40.5 0.0 82.6

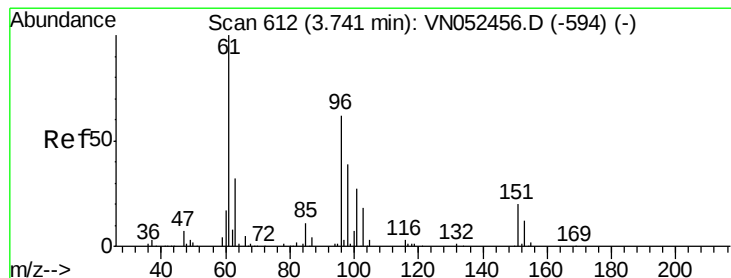
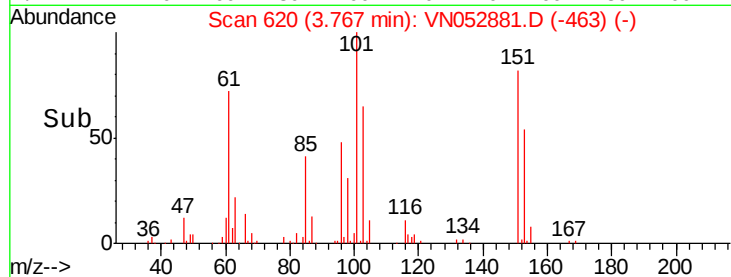
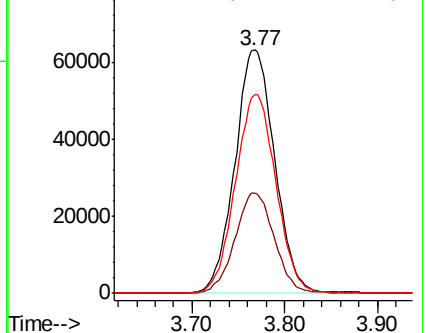
151 83.2 0.0 158.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 20.068 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

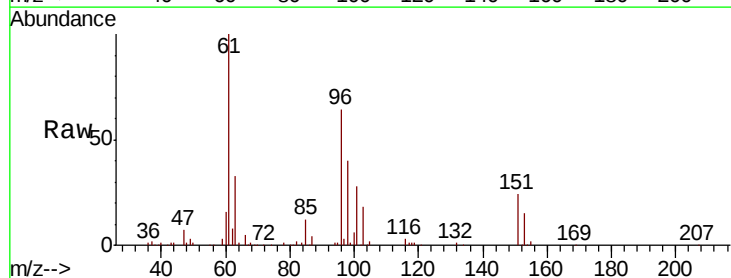
Tgt Ion: 96 Resp: 180079

Ion Ratio Lower Upper

96 100

61 156.8 129.4 194.2

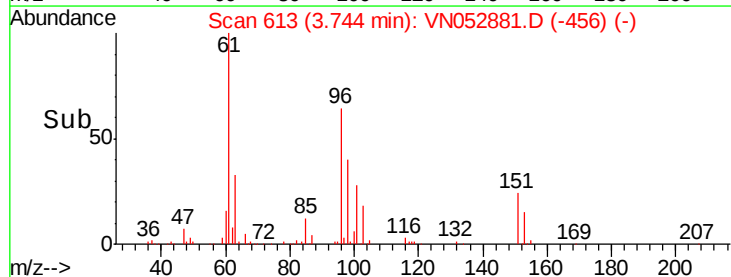
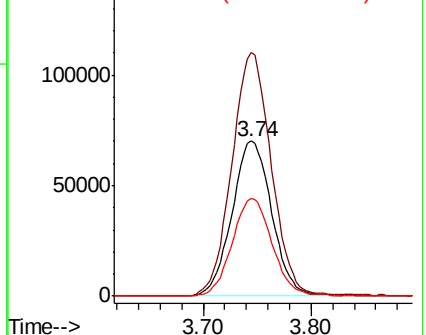
98 62.8 50.4 75.6

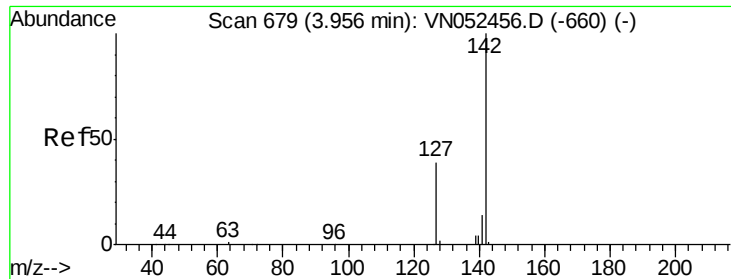


Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

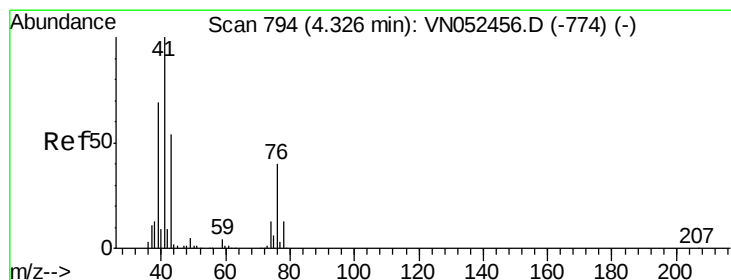
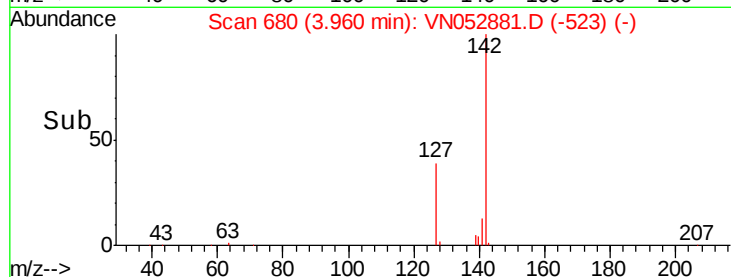
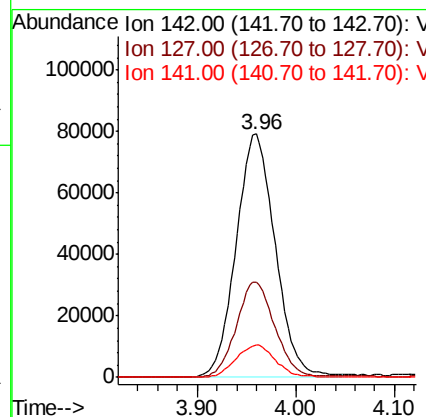
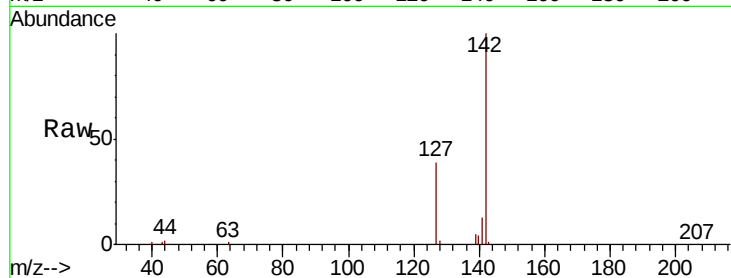




#11  
Methvl Iodide  
Concen: 17.501 ug/l  
RT: 3.96 min Scan# 680  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

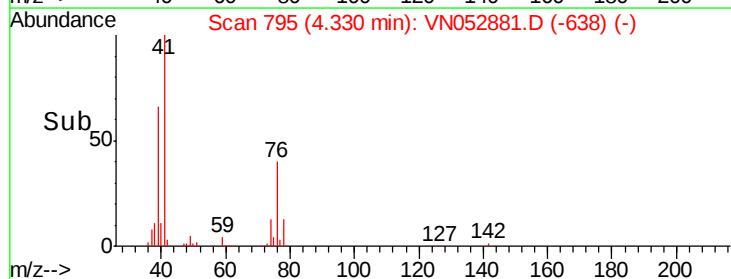
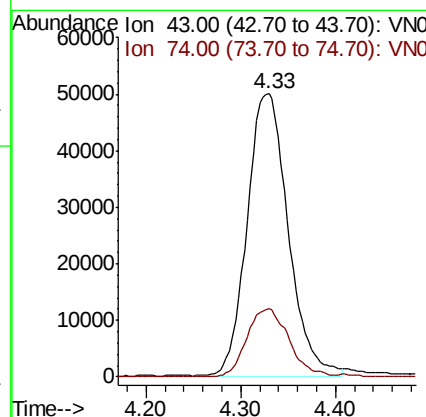
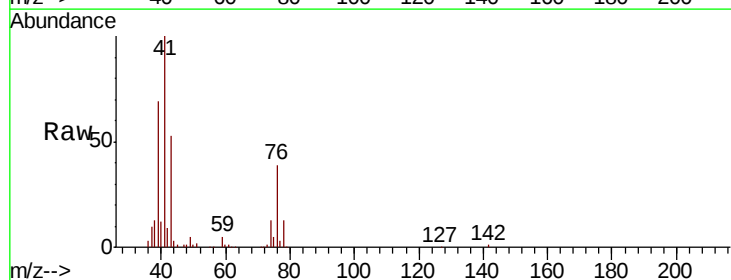
Instrument :  
MSVOA\_N  
ClientSampleId :

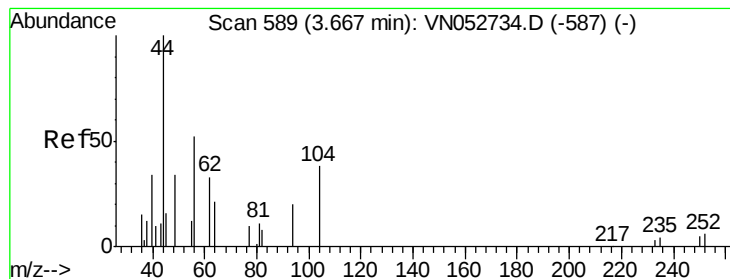
Tot Ion:142 Resp: 218043  
Ion Ratio Lower Upper  
142 100  
127 39.2 19.4 58.1  
141 13.4 7.2 21.6



#12  
Methyl Acetate  
Concen: 19.712 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion: 43 Resp: 150292  
Ion Ratio Lower Upper  
43 100  
74 24.2 18.9 28.3





#13

Acrolein

Concen: 94.077 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

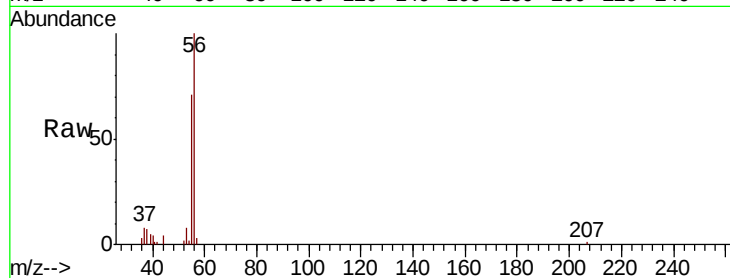
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 56 Resp: 84257

Ion Ratio Lower Upper

56 100

55 71.8 56.7 85.1

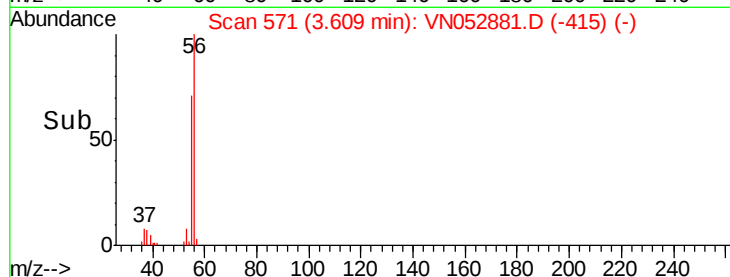


Abundance Ion 56.00 (55.70 to 56.70): VN052734.D (-587) (-)

Ion 55.00 (54.70 to 55.70): VN052734.D (-587) (-)

3.61

Time-->

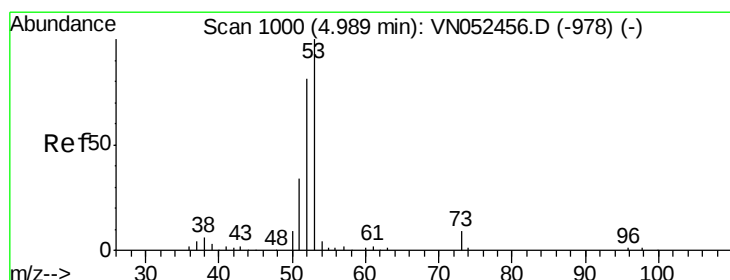


Abundance Ion 56.00 (55.70 to 56.70): VN052881.D (-415) (-)

Ion 55.00 (54.70 to 55.70): VN052881.D (-415) (-)

3.61

Time-->



#14

Acrylonitrile

Concen: 97.643 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

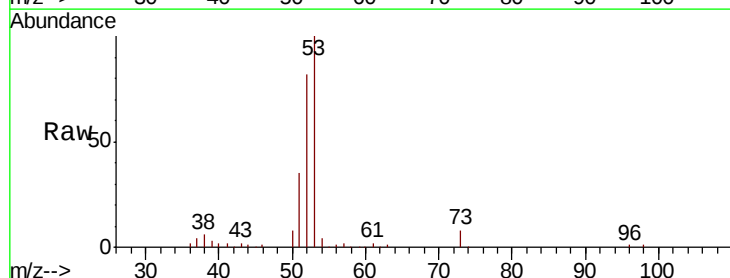
Tgt Ion: 53 Resp: 317207

Ion Ratio Lower Upper

53 100

52 83.1 39.9 119.7

51 36.6 17.6 52.9



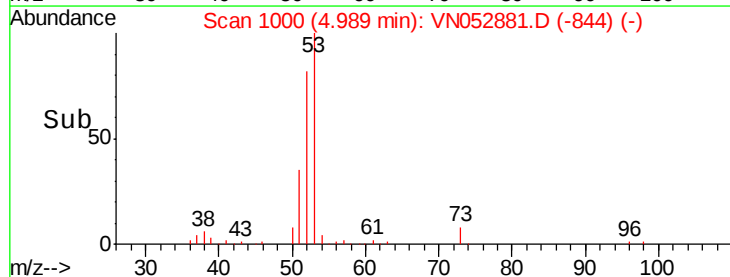
Abundance Ion 53.00 (52.70 to 53.70): VN052456.D (-978) (-)

Ion 52.00 (51.70 to 52.70): VN052456.D (-978) (-)

Ion 51.00 (50.70 to 51.70): VN052456.D (-978) (-)

4.99

Time-->



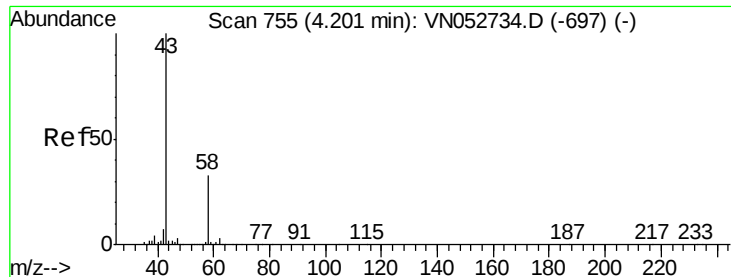
Abundance Ion 53.00 (52.70 to 53.70): VN052881.D (-844) (-)

Ion 52.00 (51.70 to 52.70): VN052881.D (-844) (-)

Ion 51.00 (50.70 to 51.70): VN052881.D (-844) (-)

4.99

Time-->



#15

Acetone

Concen: 91.543 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

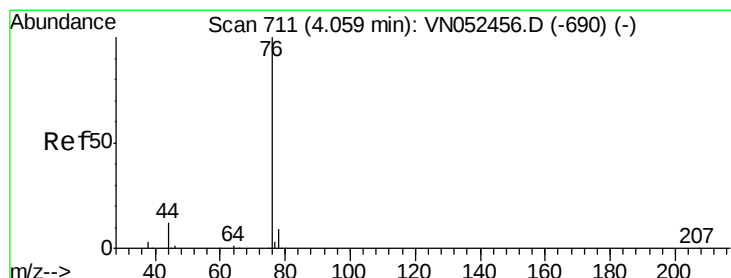
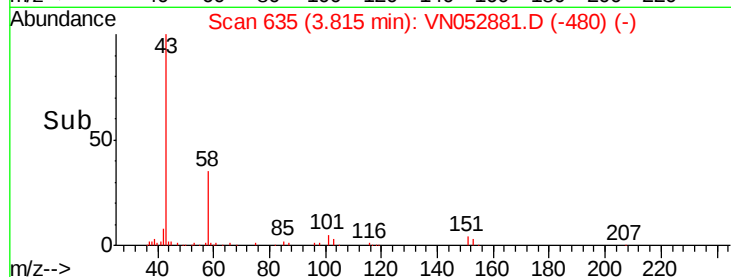
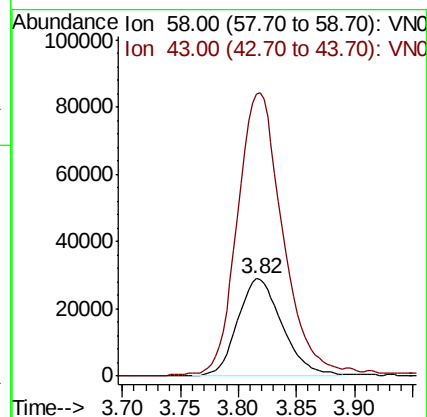
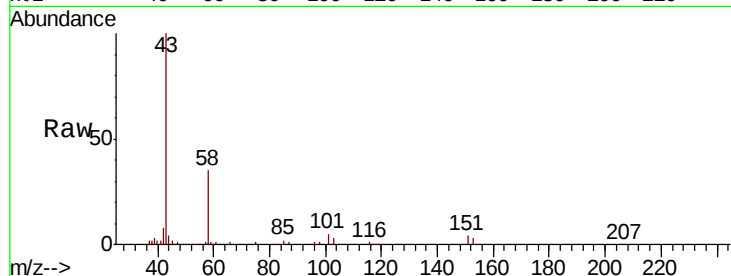
ClientSampleId :

Tot Ion: 58 Resp: 77018

Ion Ratio Lower Upper

58 100

43 287.6 243.6 365.4



#16

Carbon Disulfide

Concen: 17.222 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052881.D

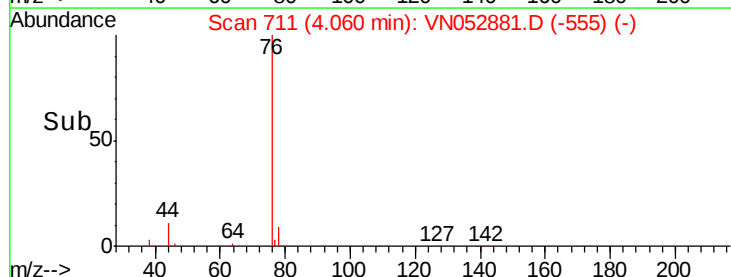
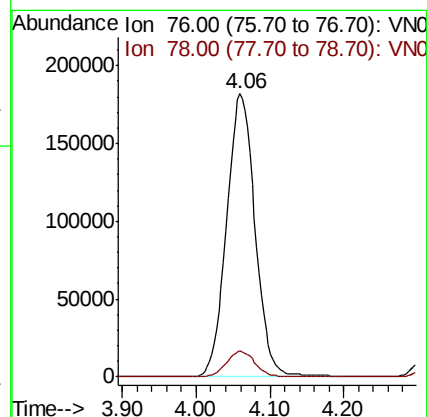
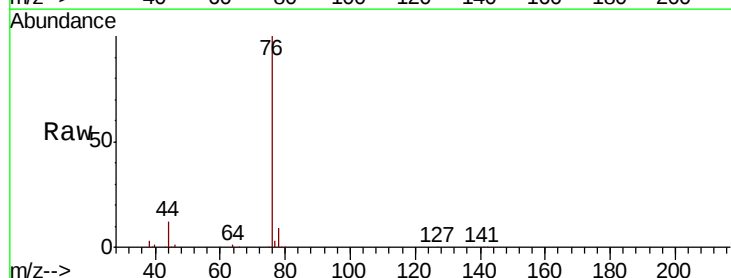
Acq: 14 Dec 2018 11:42

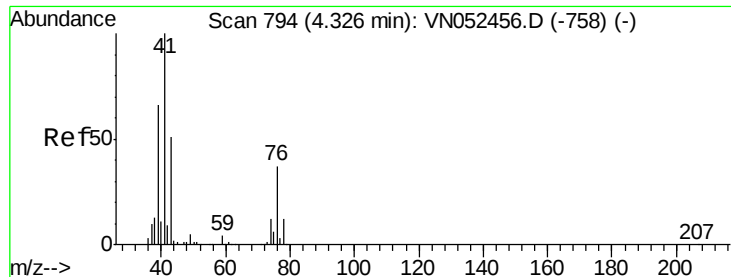
Tgt Ion: 76 Resp: 489265

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

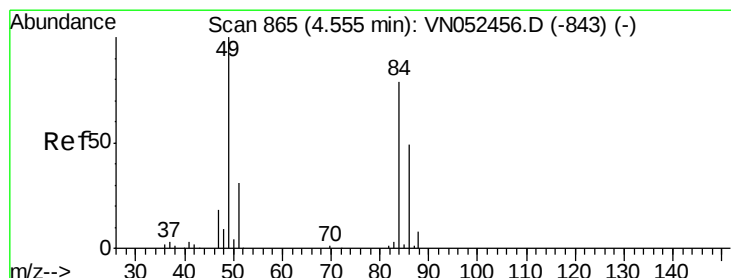
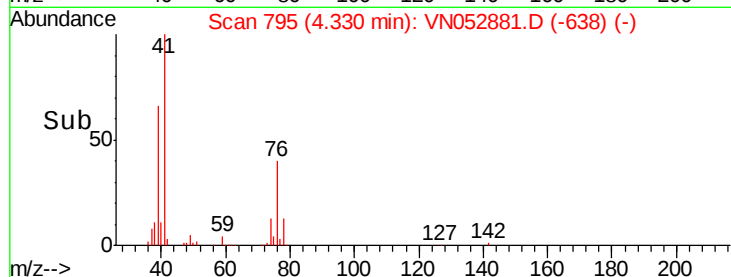
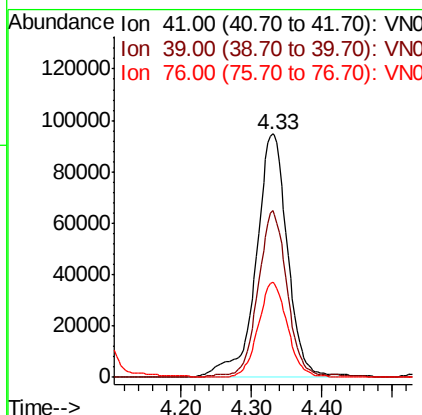
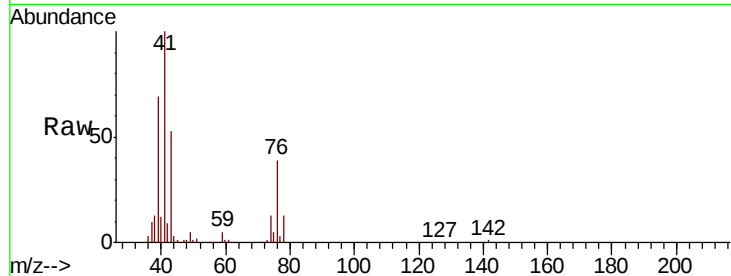




#17  
Allvl chloride  
Concen: 18.782 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

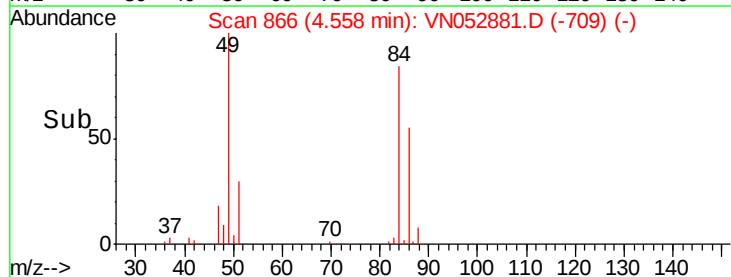
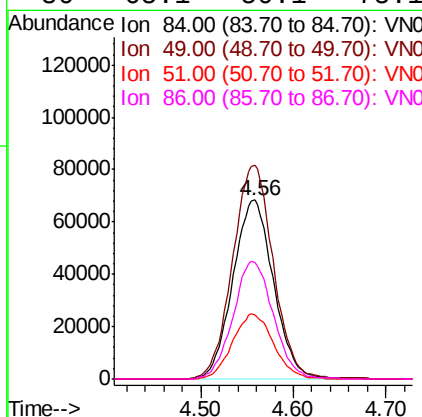
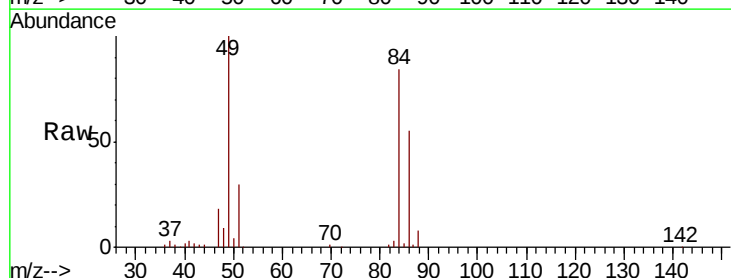
Instrument :  
MSVOA\_N  
ClientSampleId :

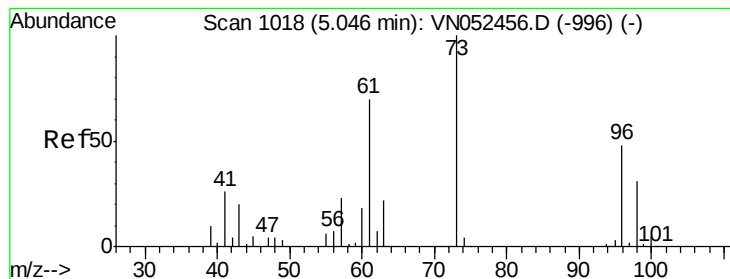
Tot Ion: 41 Resp: 293922  
Ion Ratio Lower Upper  
41 100  
39 68.6 32.8 98.3  
76 38.6 18.6 55.8



#18  
Methylene Chloride  
Concen: 20.025 ug/l  
RT: 4.56 min Scan# 866  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion: 84 Resp: 208065  
Ion Ratio Lower Upper  
84 100  
49 119.1 101.4 152.0  
51 35.5 31.7 47.5  
86 65.1 50.1 75.1





#19

trans-1,2-Dichloroethene

Concen: 19.792 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :  
MSVOA\_N  
ClientSampleId :

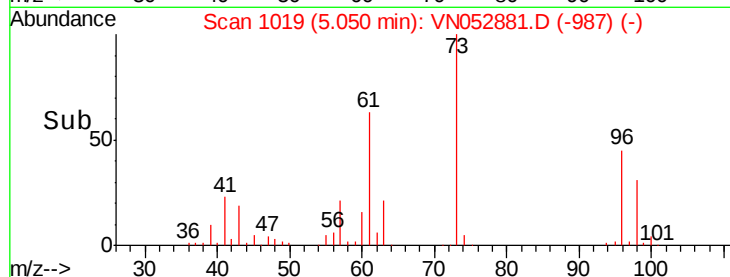
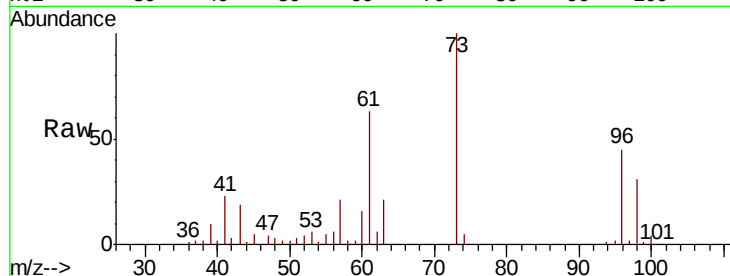
Tot Ion: 96 Resp: 191129

Ion Ratio Lower Upper

96 100

61 138.1 118.2 177.4

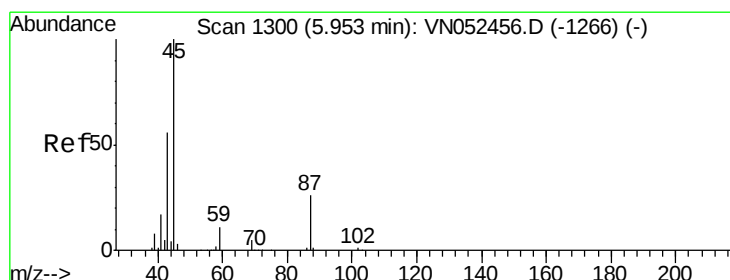
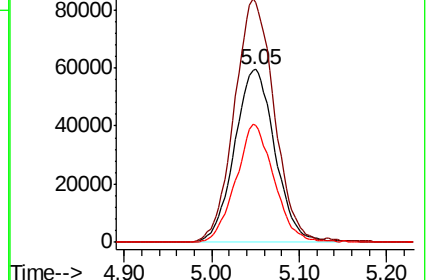
98 67.9 51.4 77.2



Abundance Ion 96.00 (95.70 to 96.70): VN052456.D (-996) (-)

Ion 61.00 (60.70 to 61.70): VN052456.D (-996) (-)

Ion 98.00 (97.70 to 98.70): VN052456.D (-996) (-)



#20

Diisopropyl ether

Concen: 19.330 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion: 45 Resp: 635709

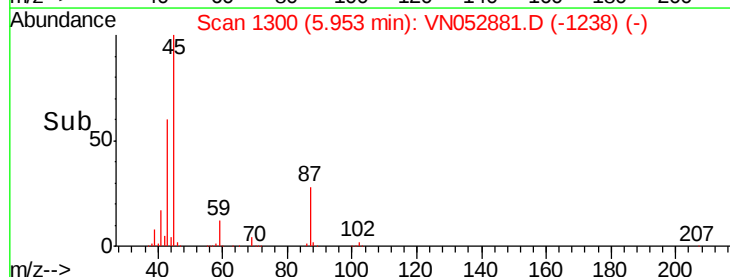
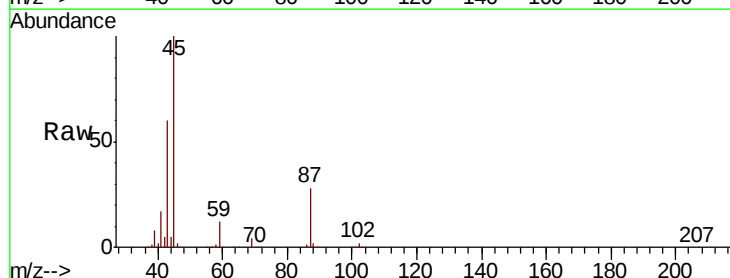
Ion Ratio Lower Upper

45 100

43 57.8 47.8 71.8

87 28.2 21.3 31.9

59 11.7 8.9 13.3

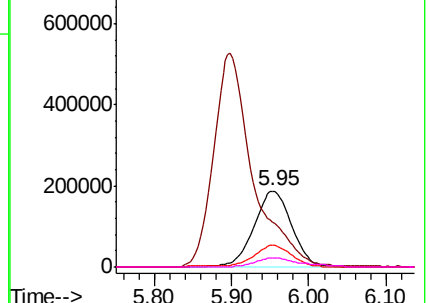


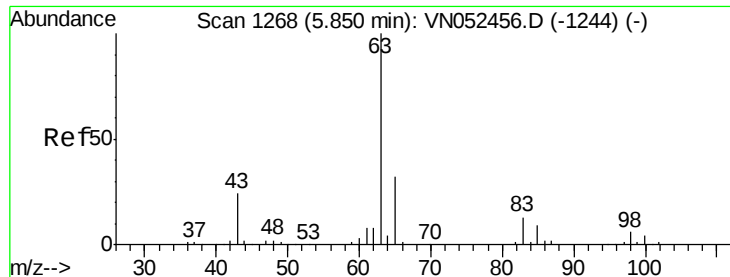
Abundance Ion 45.00 (44.70 to 45.70): VN052456.D (-1266) (-)

Ion 43.00 (42.70 to 43.70): VN052456.D (-1266) (-)

Ion 87.00 (86.70 to 87.70): VN052456.D (-1266) (-)

Ion 59.00 (58.70 to 59.70): VN052456.D (-1266) (-)

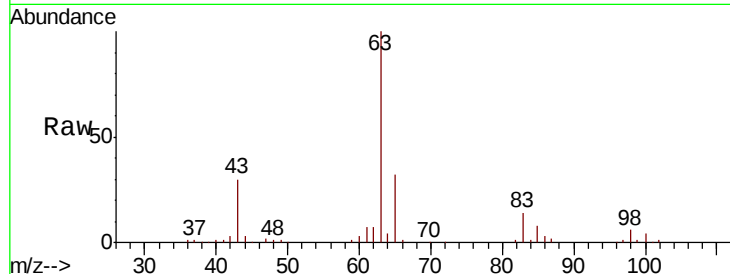




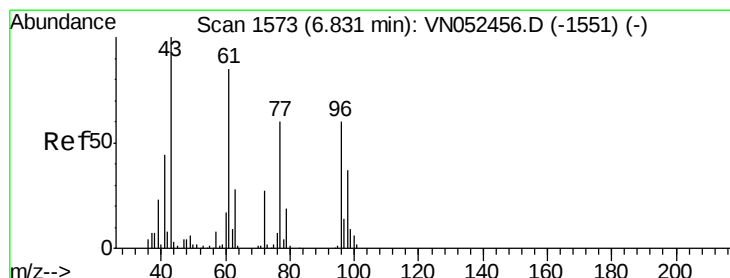
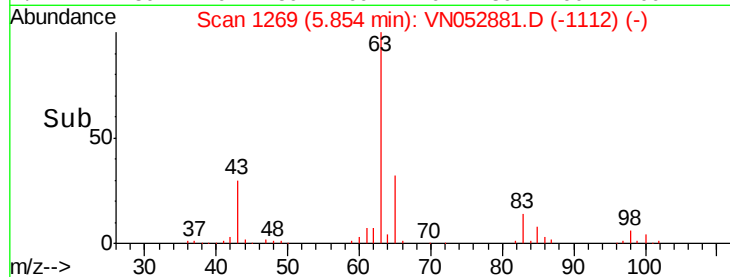
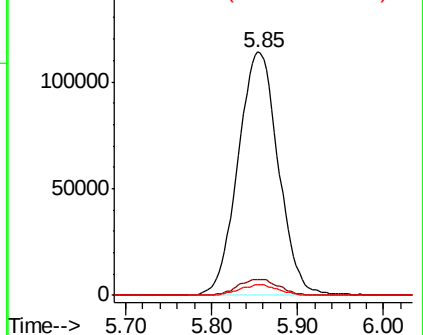
#21  
 1,1-Dichloroethane  
 Concen: 19.829 ug/l  
 RT: 5.85 min Scan# 1269  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

Instrument :  
 MSVOA\_N  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 6.4   | 3.0   | 9.2   |
| 100     | 4.5   | 1.8   | 5.5   |

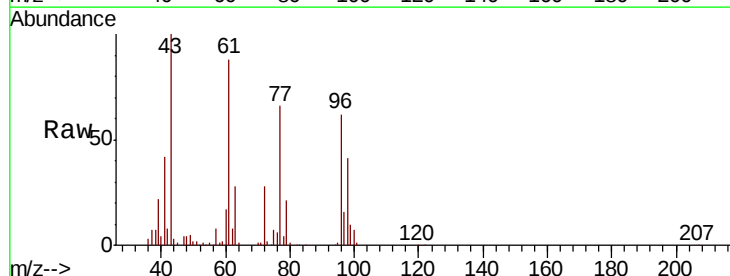


Abundance Ion 63.00 (62.70 to 63.70): VN052456.D (-1244) (-)  
 Ion 98.00 (97.70 to 98.70): VN052456.D (-1244) (-)  
 Ion 100.00 (99.70 to 100.70): VN052456.D (-1244) (-)

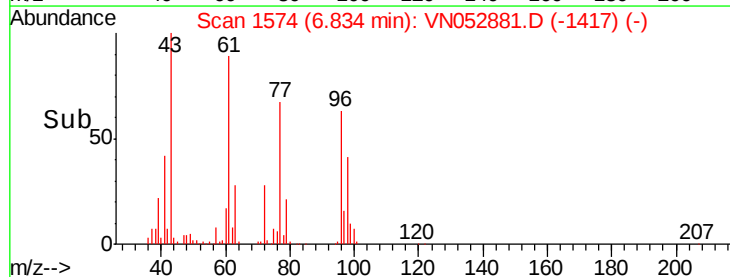
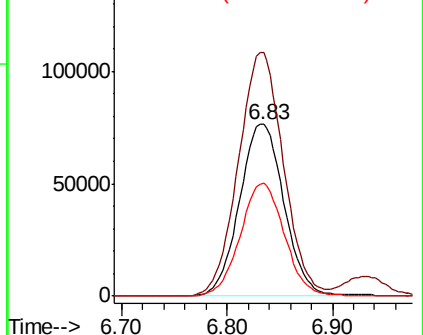


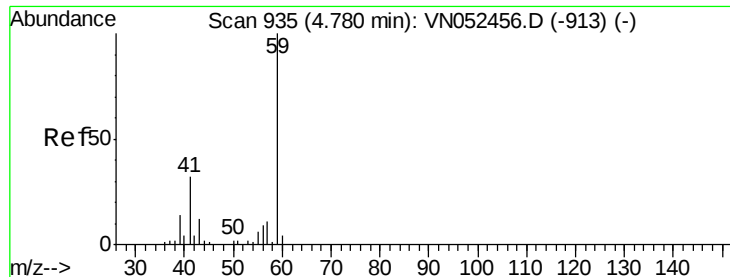
#22  
 cis-1,2-Dichloroethene  
 Concen: 20.320 ug/l  
 RT: 6.83 min Scan# 1574  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 143.4 | 116.7 | 175.1 |
| 98      | 65.1  | 50.8  | 76.2  |



Abundance Ion 96.00 (95.70 to 96.70): VN052456.D (-1551) (-)  
 Ion 61.00 (60.70 to 61.70): VN052456.D (-1551) (-)  
 Ion 98.00 (97.70 to 98.70): VN052456.D (-1551) (-)





#23

tert-Butyl Alcohol

Concen: 48.515 ug/l

RT: 4.77 min Scan# 932

Delta R.T. -0.01 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

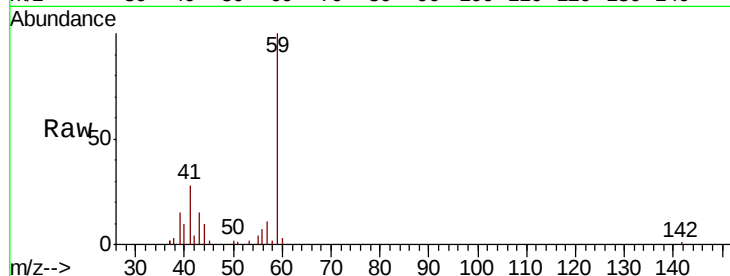
ClientSampled :

Tot Ion: 59 Resp: 23446

Ion Ratio Lower Upper

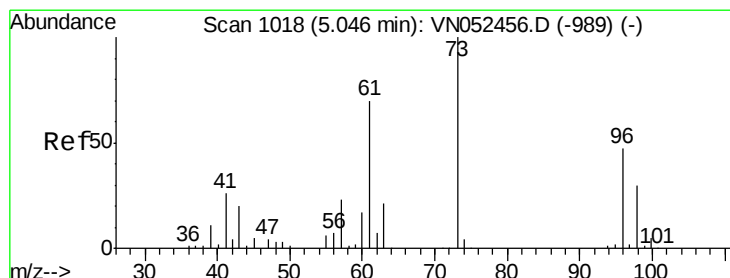
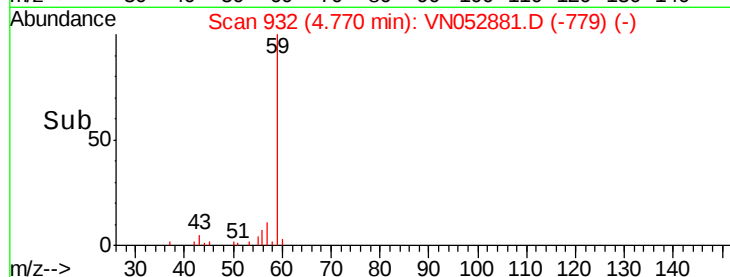
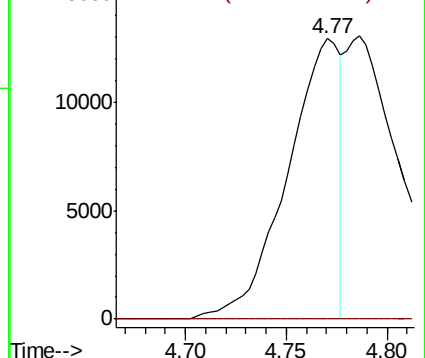
59 100

52 0.5 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VN052456.D (-913) (-)

Ion 52.00 (51.70 to 52.70): VN052456.D (-913) (-)



#24

Methyl tert-Butyl Ether

Concen: 20.665 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN052881.D

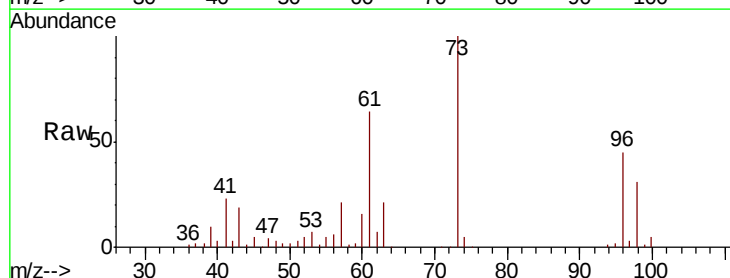
Acq: 14 Dec 2018 11:42

Tgt Ion: 73 Resp: 486472

Ion Ratio Lower Upper

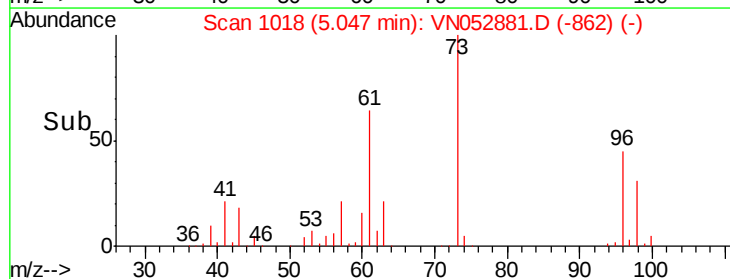
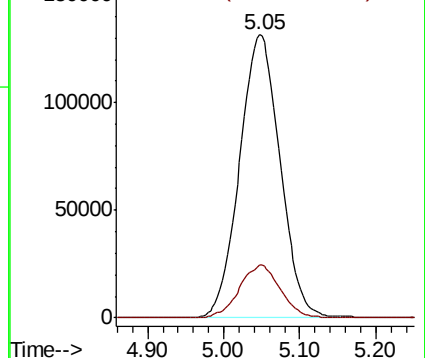
73 100

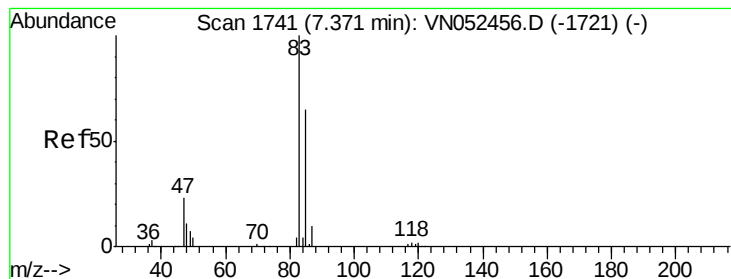
43 18.6 15.8 23.8



Abundance Ion 73.00 (72.70 to 73.70): VN052456.D (-989) (-)

Ion 43.00 (42.70 to 43.70): VN052456.D (-989) (-)





#25

Chloroform

Concen: 20.155 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

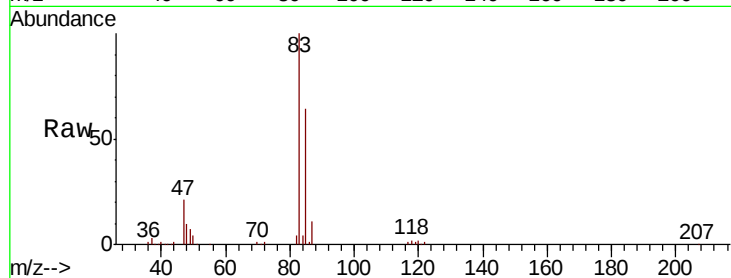
ClientSampled :

Tot Ion: 83 Resp: 364463

Ion Ratio Lower Upper

83 100

85 64.3 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

7.37

150000

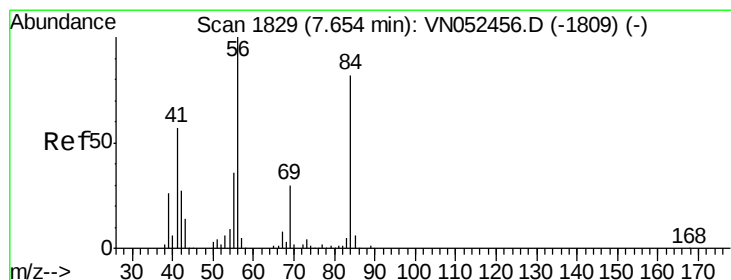
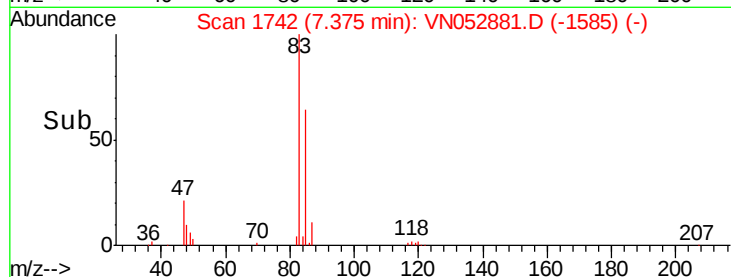
100000

50000

0

Time-->

7.30 7.40 7.50



#26

Cyclohexane

Concen: 18.140 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

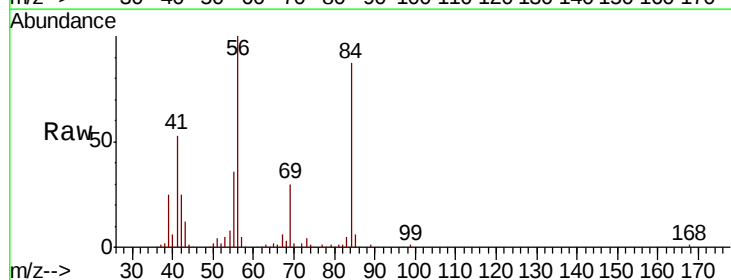
Tgt Ion: 56 Resp: 320689

Ion Ratio Lower Upper

56 100

89 0.4 0.5 0.7#

84 86.6 66.2 99.2



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

200000

150000

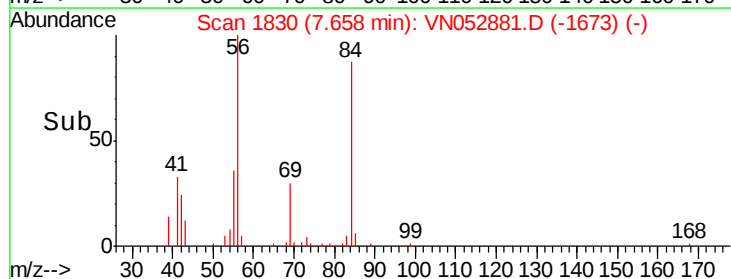
100000

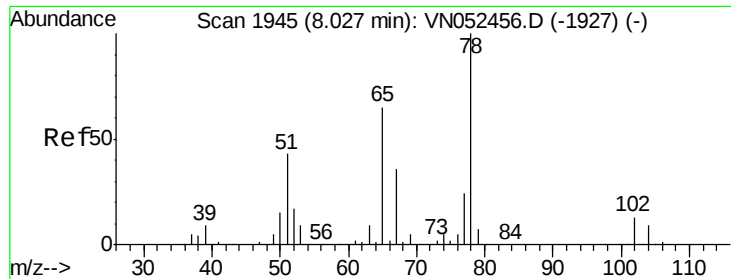
50000

0

Time-->

7.55 7.60 7.65 7.70





#27

1,2-Dichloroethane-d4

Concen: 18.140 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

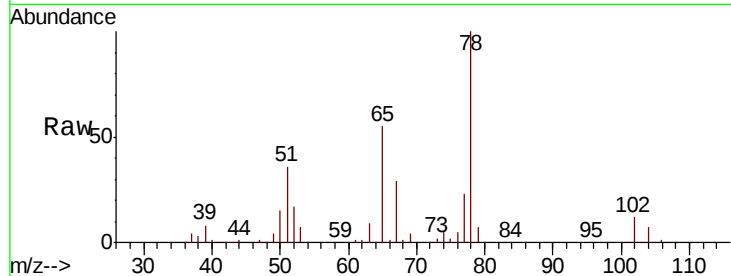
ClientSampleId :

Tot Ion: 65 Resp: 315225

Ion Ratio Lower Upper

65 100

67 54.2 44.6 66.8



Abundance Ion 65.00 (64.70 to 65.70): VN052456.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN052456.D (-1927) (-)

8.03

150000

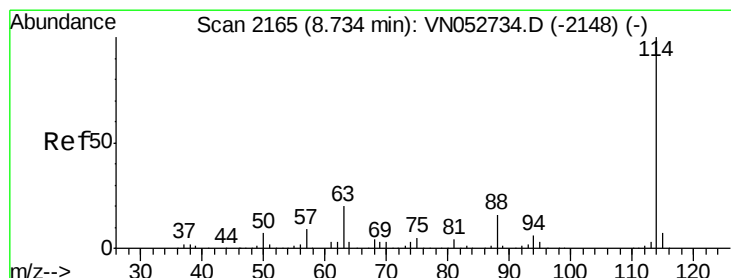
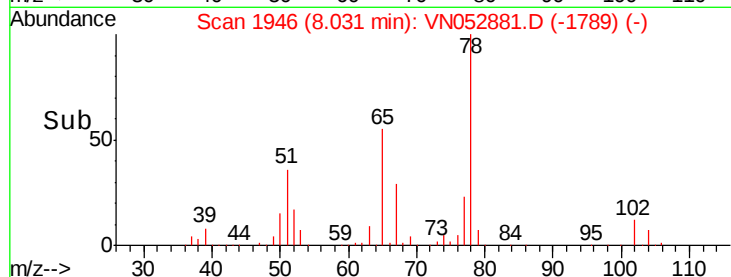
100000

50000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

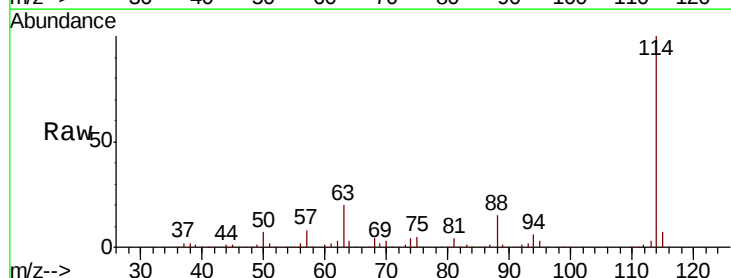
Tgt Ion: 114 Resp: 937734

Ion Ratio Lower Upper

114 100

63 19.5 16.9 25.3

88 15.3 12.8 19.2



Abundance Ion 114.00 (113.70 to 114.70): VN052734.D (-2148) (-)

Ion 63.00 (62.70 to 63.70): VN052734.D (-2148) (-)

Ion 88.00 (87.70 to 88.70): VN052734.D (-2148) (-)

8.59

600000

500000

400000

300000

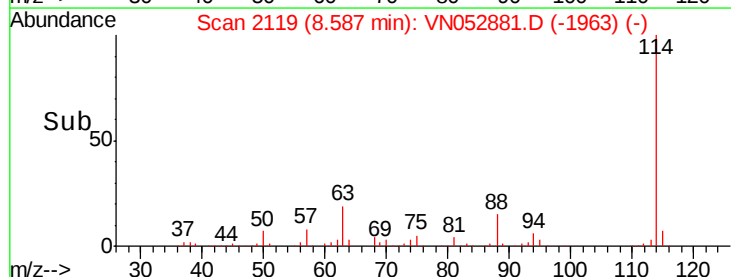
200000

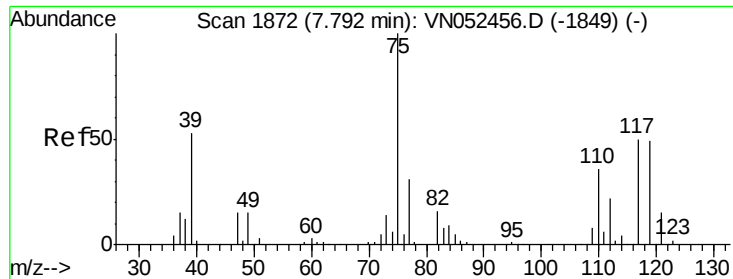
100000

0

8.50 8.60 8.70

Time-->

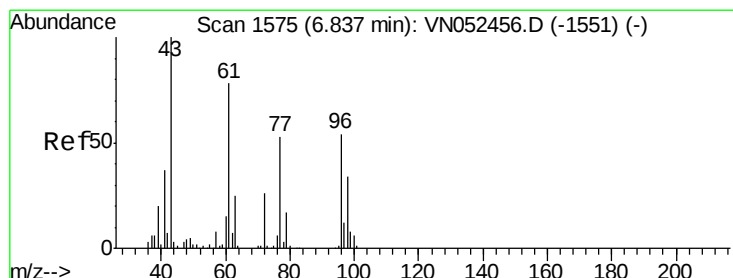
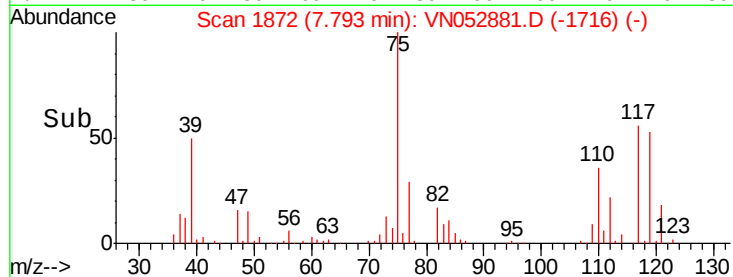
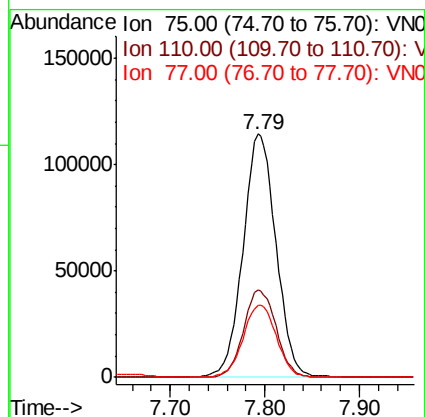
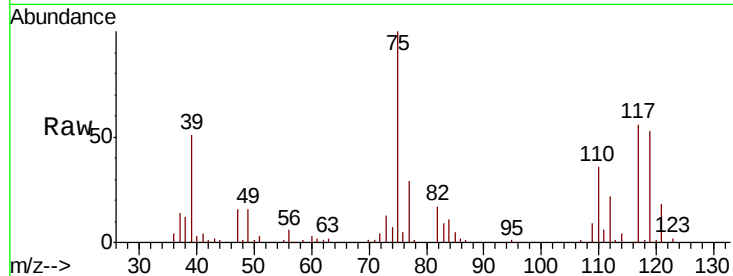




#29  
 1,1-Dichloropropene  
 Concen: 19.266 ug/l  
 RT: 7.79 min Scan# 1872  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

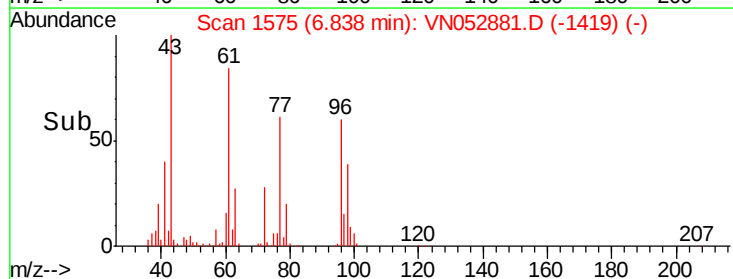
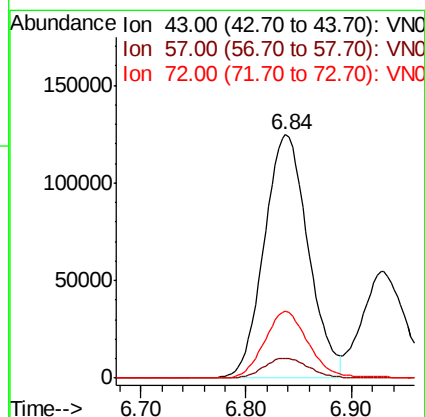
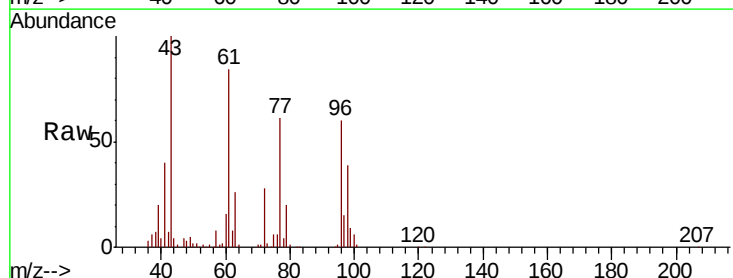
Instrument :  
 MSVOA\_N  
 ClientSampleId :

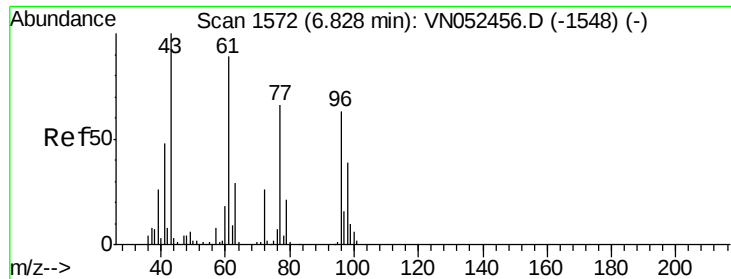
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 35.6  | 0.0   | 70.2  |
| 77      | 30.0  | 0.0   | 62.6  |



#30  
 2-Butanone  
 Concen: 94.209 ug/l  
 RT: 6.84 min Scan# 1575  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 8.5   | 6.2   | 9.4   |
| 72      | 27.2  | 21.0  | 31.6  |





#31

2,2-Dichloropropane

Concen: 20.239 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

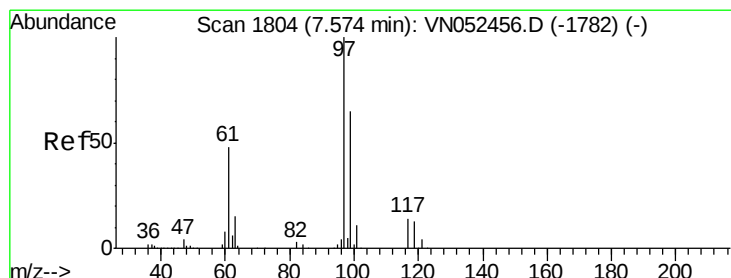
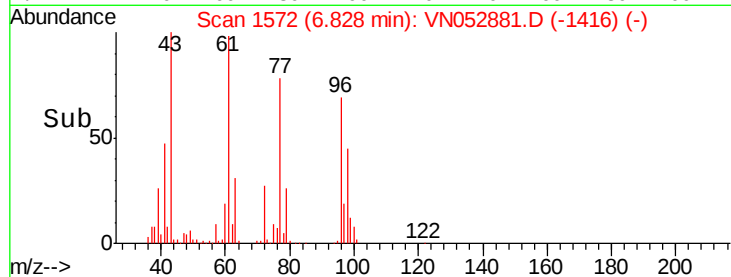
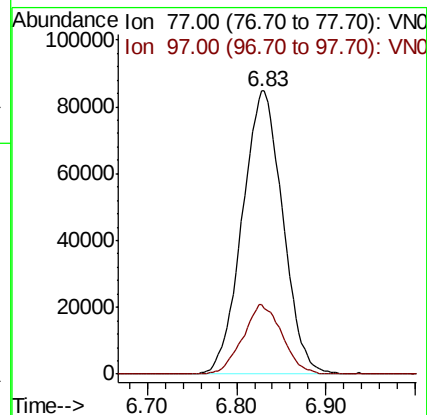
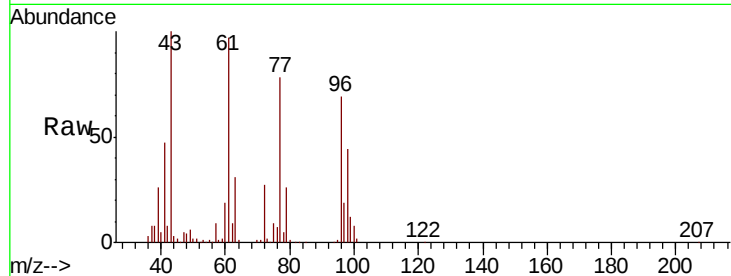
ClientSampled :

Tot Ion: 77 Resp: 266819

Ion Ratio Lower Upper

77 100

97 23.9 18.7 28.1



#32

1,1,1-Trichloroethane

Concen: 19.831 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

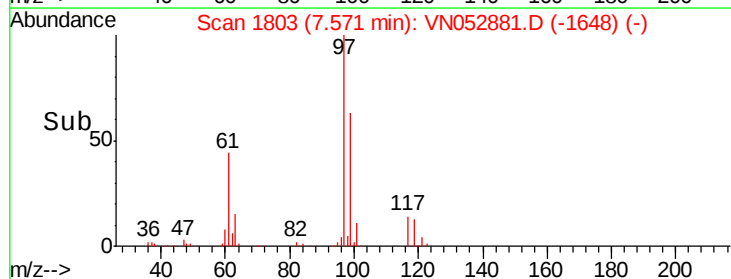
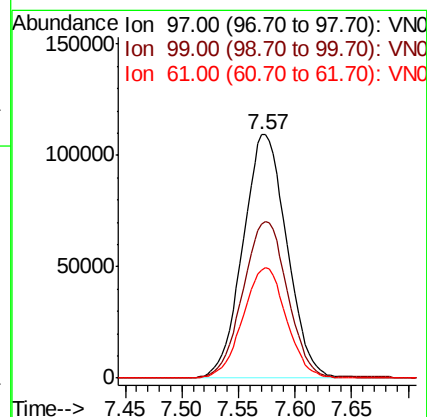
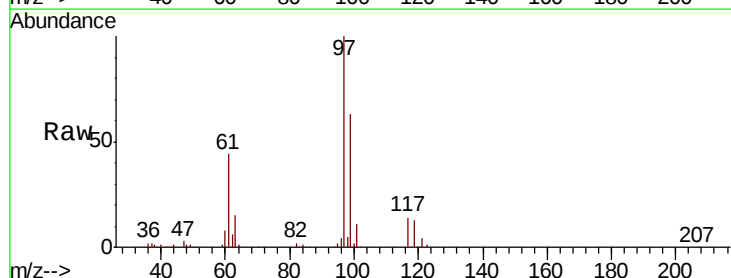
Tgt Ion: 97 Resp: 295493

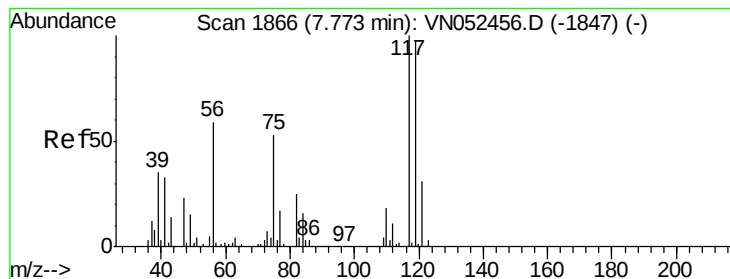
Ion Ratio Lower Upper

97 100

99 65.0 50.9 76.3

61 44.9 38.1 57.1





#33

Carbon Tetrachloride

Concen: 19.968 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampled :

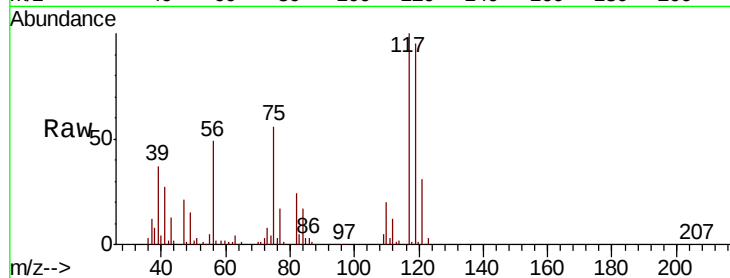
Tot Ion:117 Resp: 260335

Ion Ratio Lower Upper

117 100

119 94.6 77.3 115.9

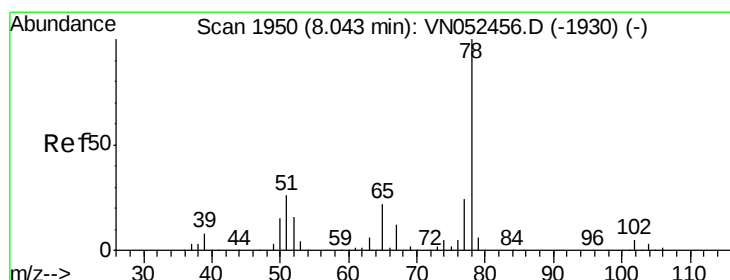
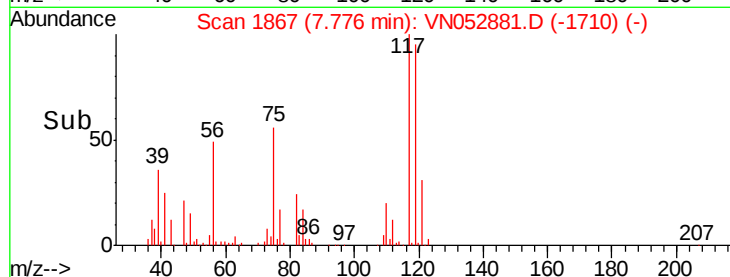
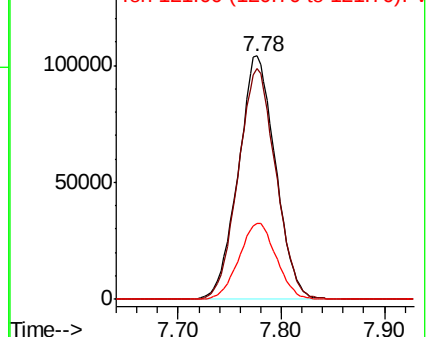
121 31.1 24.9 37.3



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: 19.606 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

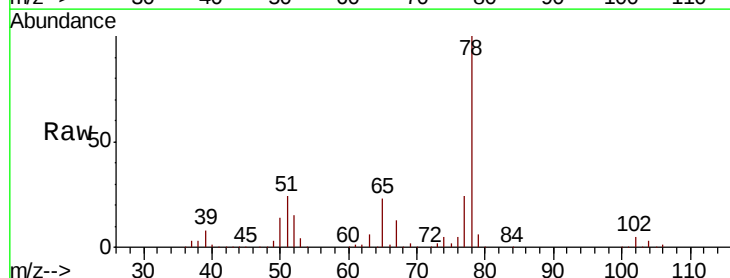
Tgt Ion: 78 Resp: 844108

Ion Ratio Lower Upper

78 100

77 23.5 19.0 28.6

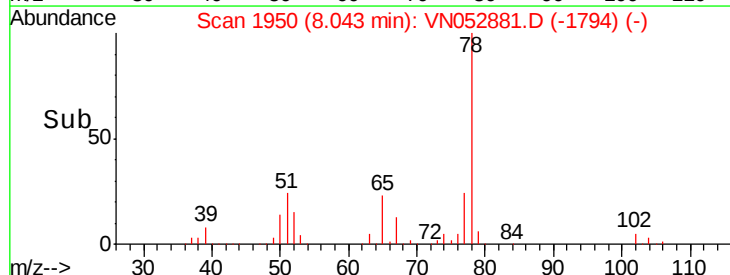
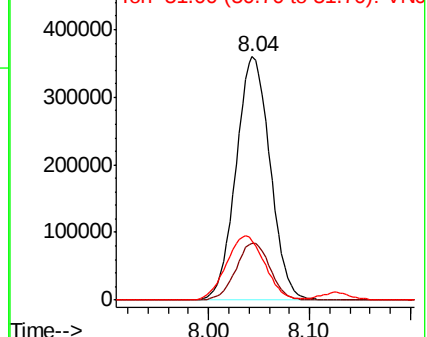
51 24.2 20.5 30.7

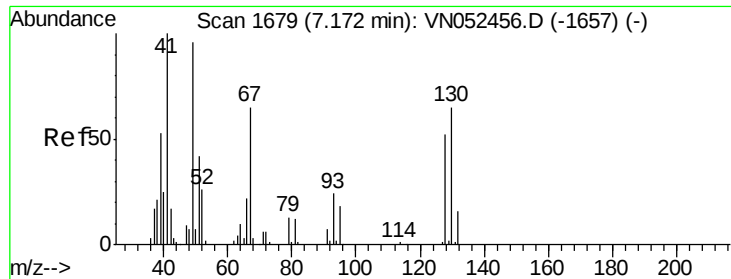


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

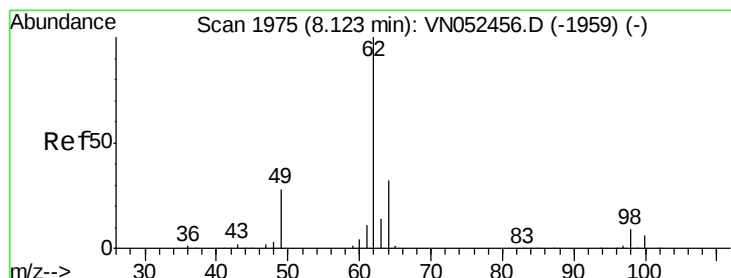
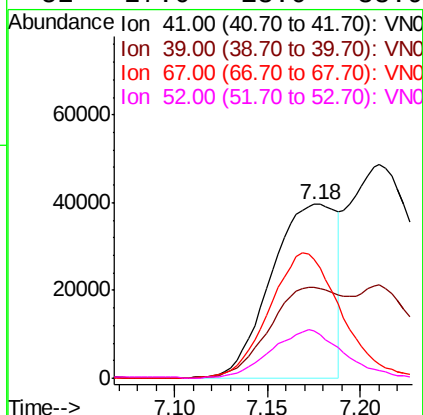
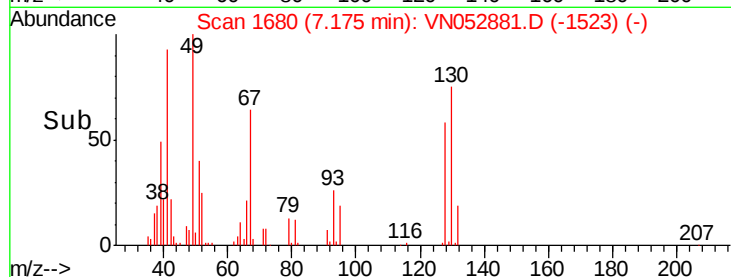
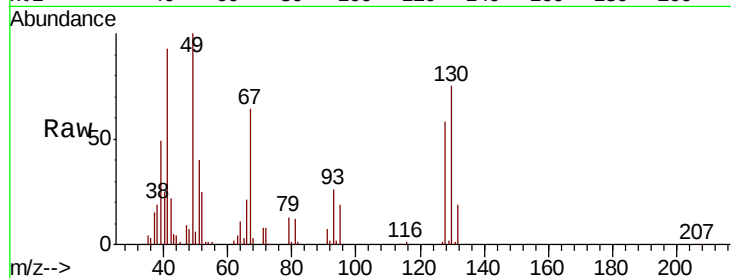




#35  
Methacrylonitrile  
Concen: 20.446 ug/l  
RT: 7.18 min Scan# 1680  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

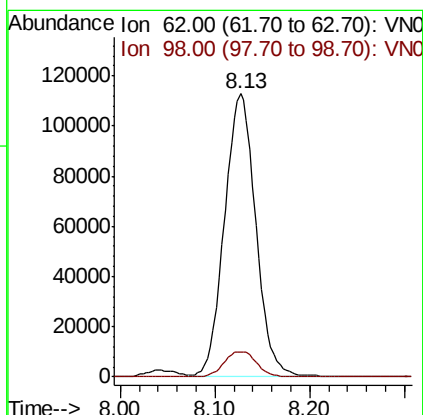
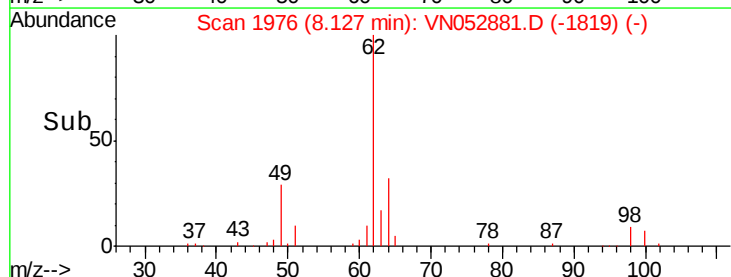
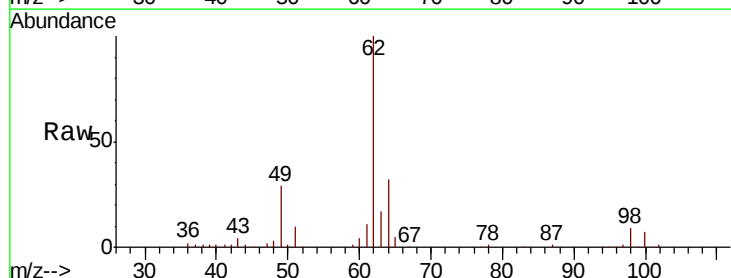
Instrument :  
MSVOA\_N  
ClientSampleId :

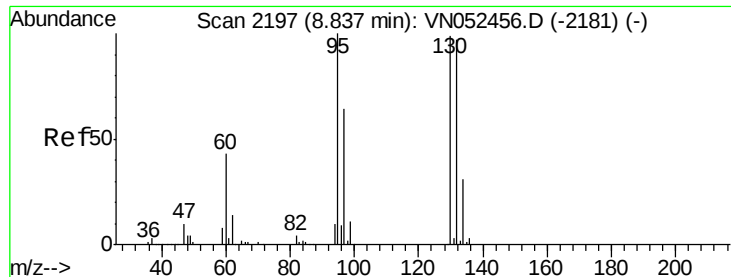
Tot Ion: 41 Resp: 97203  
Ion Ratio Lower Upper  
41 100  
39 52.1 26.6 79.7  
67 68.3 32.3 96.9  
52 27.0 13.0 38.9



#36  
1,2-Dichloroethane  
Concen: 19.792 ug/l  
RT: 8.13 min Scan# 1976  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion: 62 Resp: 258223  
Ion Ratio Lower Upper  
62 100  
98 9.2 7.4 11.2

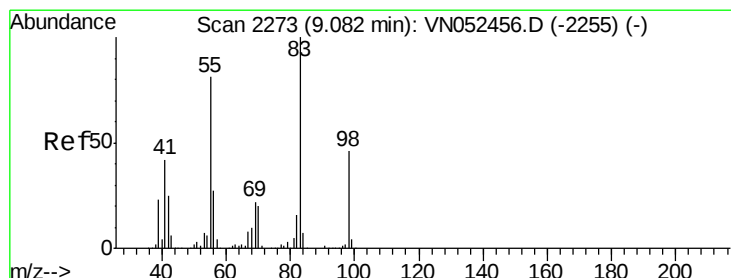
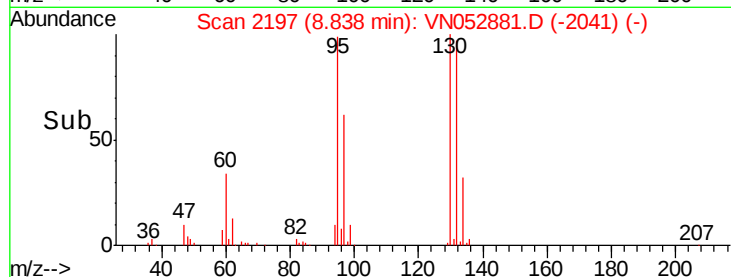
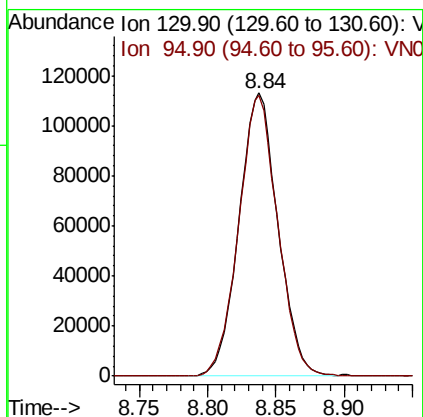
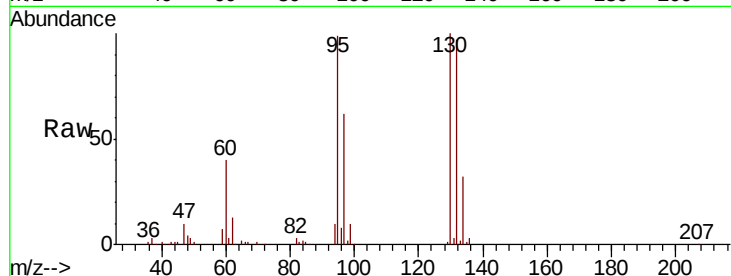




#37  
 Trichloroethene  
 Concen: 20.558 ug/l  
 RT: 8.84 min Scan# 2197  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

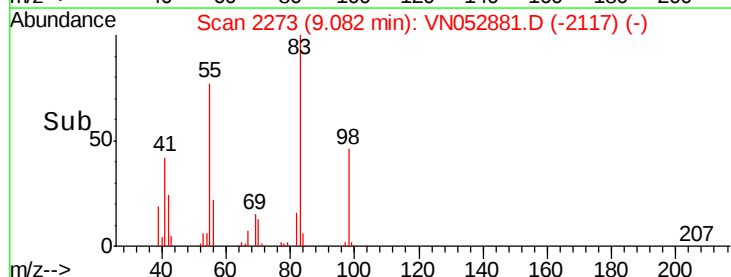
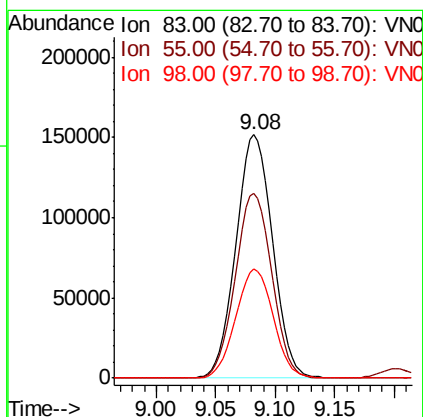
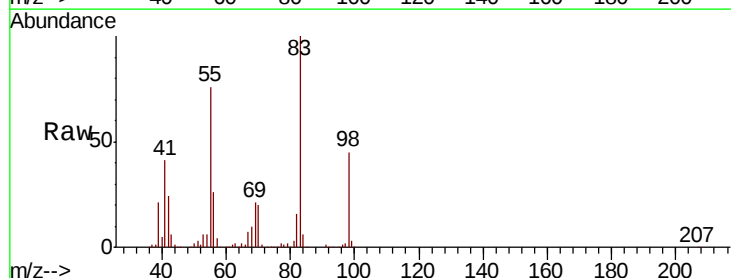
Instrument :  
 MSVOA\_N  
 ClientSampleId :

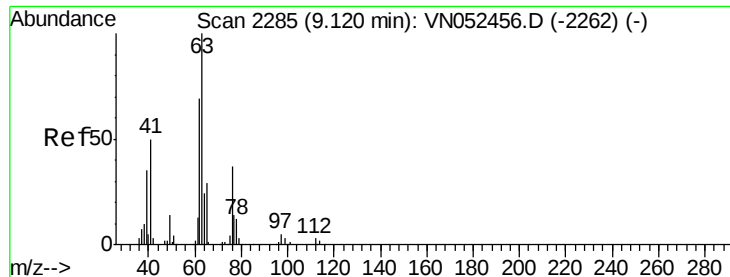
Tot Ion:130 Resp: 224441  
 Ion Ratio Lower Upper  
 130 100  
 95 99.3 81.0 121.4



#38  
 Methylcyclohexane  
 Concen: 18.304 ug/l  
 RT: 9.08 min Scan# 2273  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

Tgt Ion: 83 Resp: 324475  
 Ion Ratio Lower Upper  
 83 100  
 55 75.6 39.8 119.4  
 98 45.7 22.9 68.5

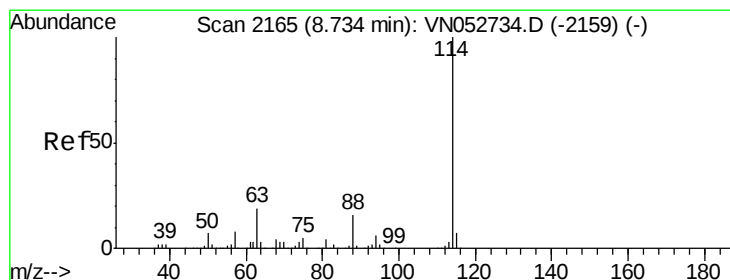
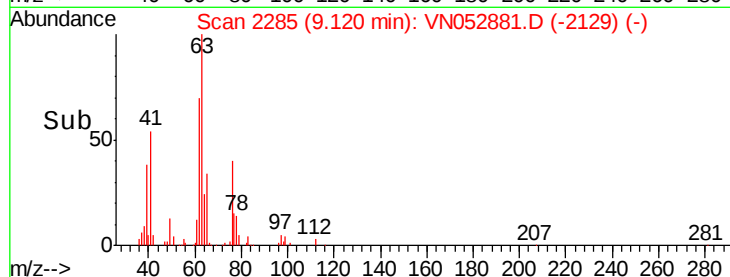
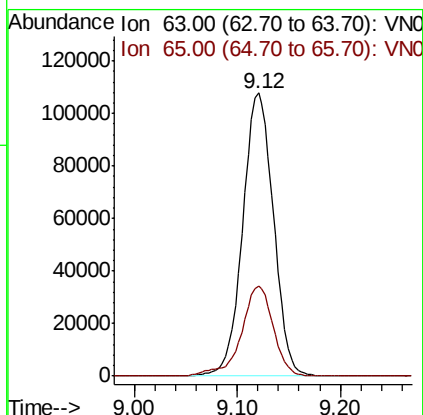
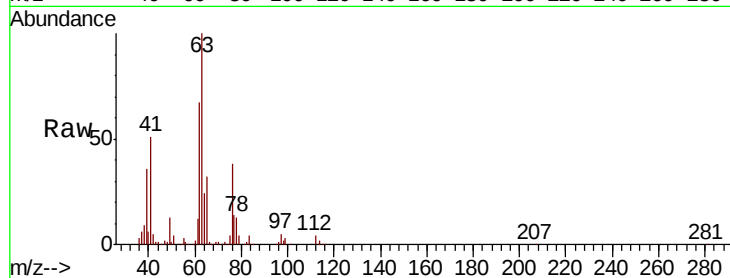




#39  
 1,2-Dichloropropane  
 Concen: 19.371 ug/l  
 RT: 9.12 min Scan# 2285  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

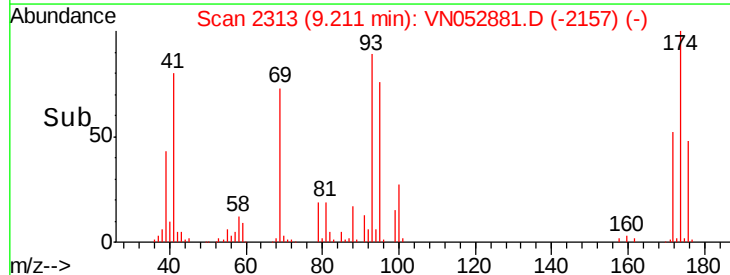
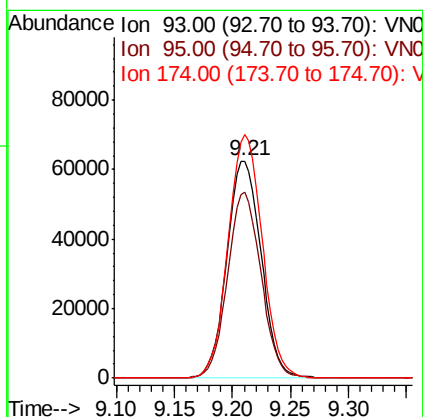
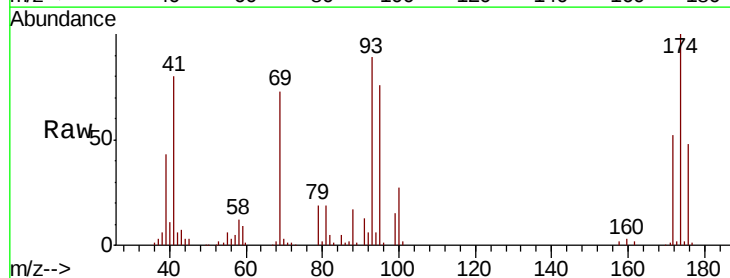
Instrument :  
 MSVOA\_N  
 ClientSampleId :

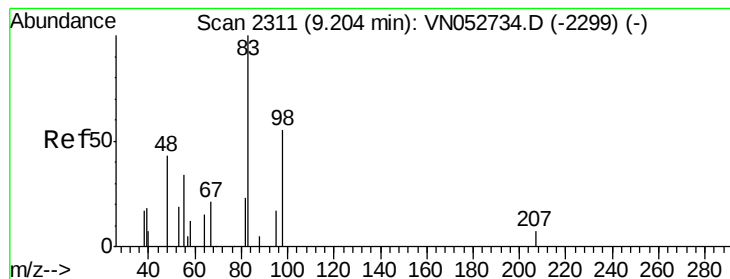
Tot Ion: 63 Resp: 223565  
 Ion Ratio Lower Upper  
 63 100  
 65 31.8 23.6 35.4



#40  
 Dibromomethane  
 Concen: 20.560 ug/l  
 RT: 9.21 min Scan# 2313  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

Tgt Ion: 93 Resp: 128227  
 Ion Ratio Lower Upper  
 93 100  
 95 83.5 0.0 168.4  
 174 111.4 0.0 210.0





#41

Bromodichloromethane

Concen: 19.841 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampleId :

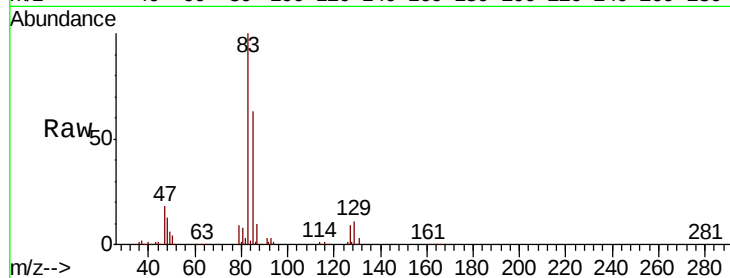
Tot Ion: 83 Resp: 273389

Ion Ratio Lower Upper

83 100

85 63.2 52.4 78.6

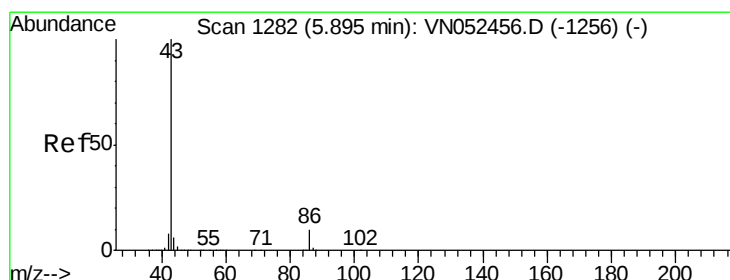
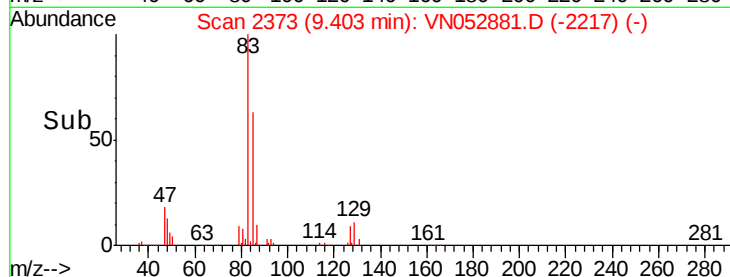
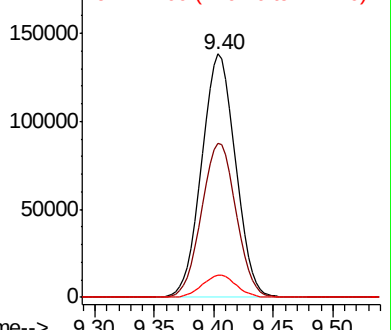
127 8.9 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN052881.D (-1126) (-)

Ion 85.00 (84.70 to 85.70): VN052881.D (-1126) (-)

Ion 127.00 (126.70 to 127.70): VN052881.D (-1126) (-)



#42

Vinyl Acetate

Concen: 90.320 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN052881.D

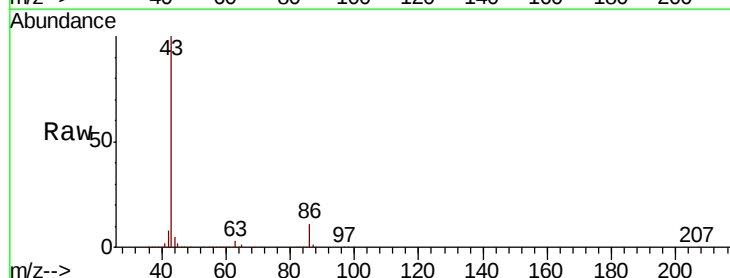
Acq: 14 Dec 2018 11:42

Tgt Ion: 43 Resp: 1872586

Ion Ratio Lower Upper

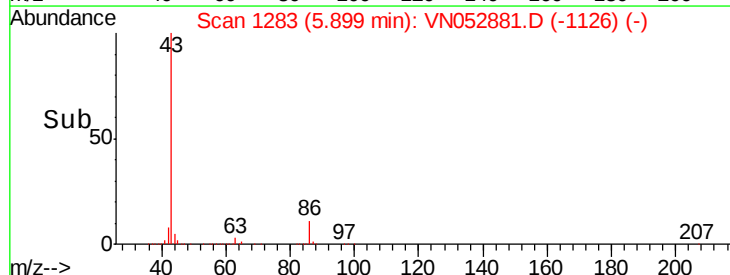
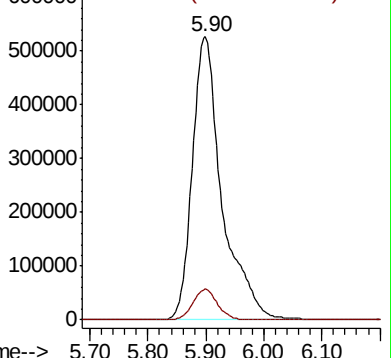
43 100

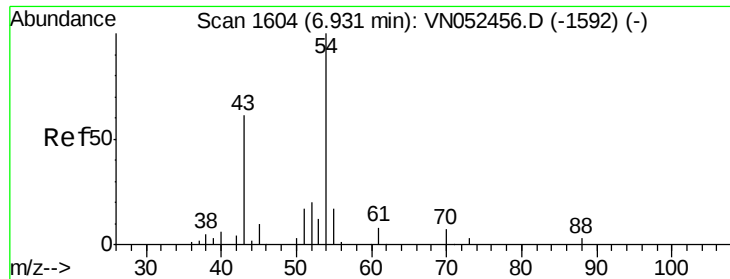
86 8.9 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VN052881.D (-1126) (-)

Ion 86.00 (85.70 to 86.70): VN052881.D (-1126) (-)

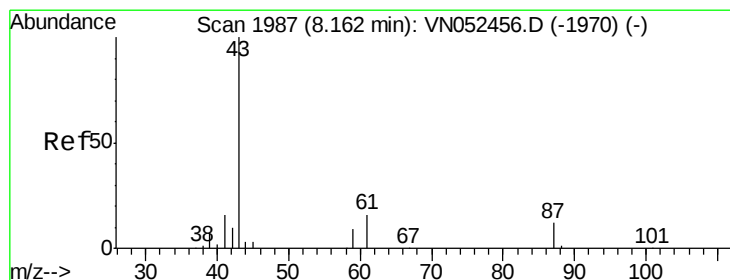
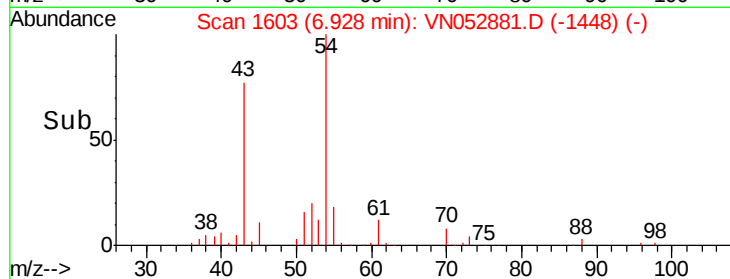
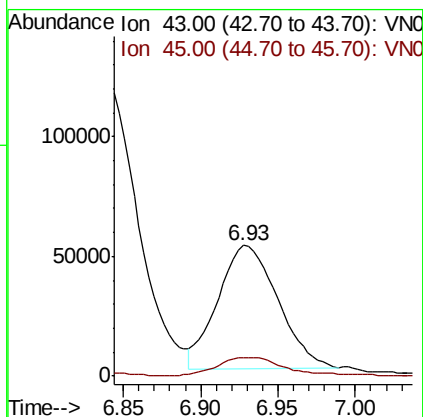
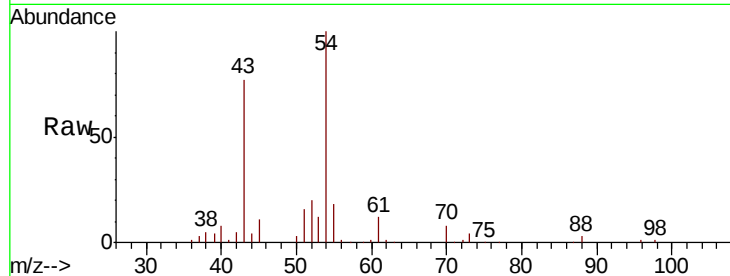




#43  
Ethyl Acetate  
Concen: 16.994 ug/l  
RT: 6.93 min Scan# 1603  
Delta R.T. -0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

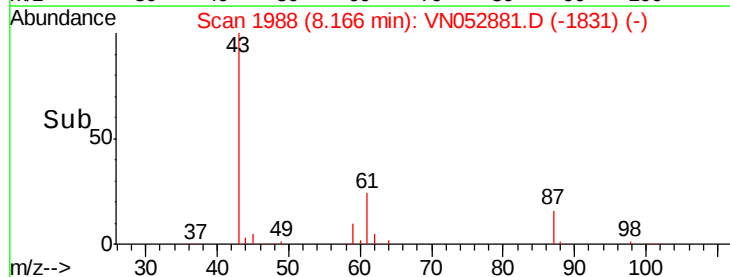
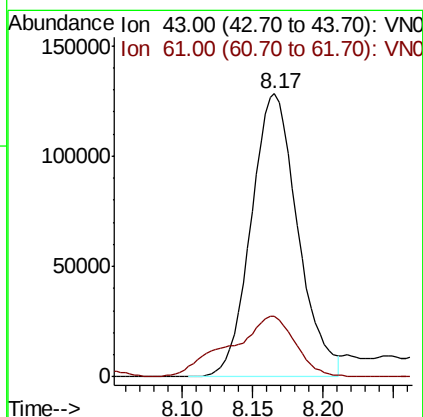
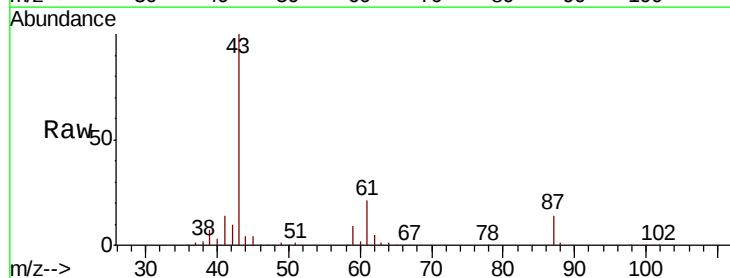
Instrument :  
MSVOA\_N  
ClientSampleId :

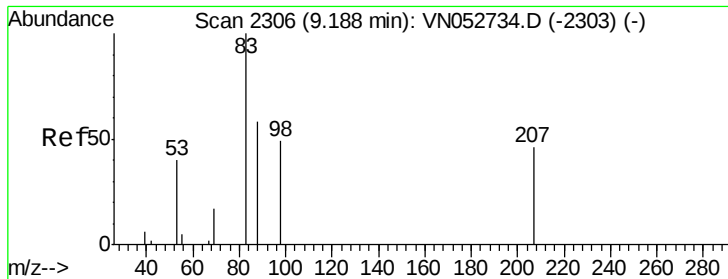
Tot Ion: 43 Resp: 138471  
Ion Ratio Lower Upper  
43 100  
45 16.5 1.0 1.6#



#44  
Isopropyl Acetate  
Concen: 20.634 ug/l  
RT: 8.17 min Scan# 1988  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion: 43 Resp: 294866  
Ion Ratio Lower Upper  
43 100  
61 29.5 16.0 24.0#





#45

1,4-Dioxane

Concen: 411.855 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampleId :

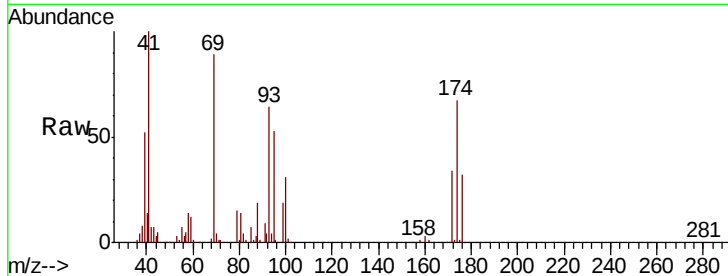
Tot Ion: 88 Resp: 32197

Ion Ratio Lower Upper

88 100

43 31.5 29.5 44.3

58 70.2 61.5 92.3

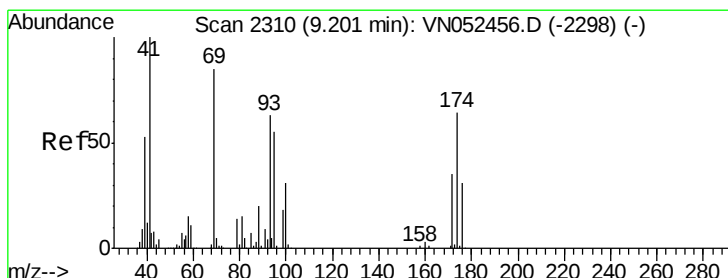
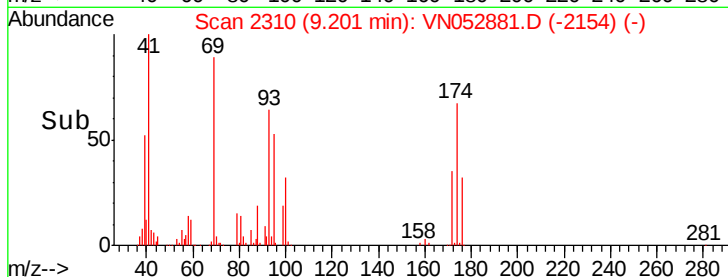
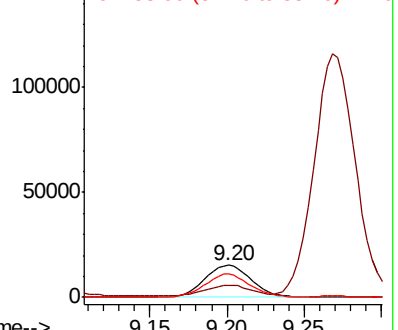


Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#46

Methyl methacrylate

Concen: 19.565 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

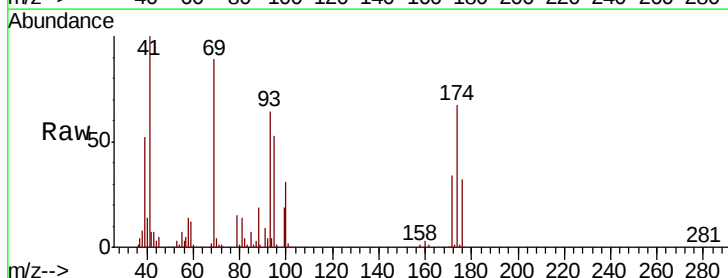
Tgt Ion: 41 Resp: 145167

Ion Ratio Lower Upper

41 100

69 90.3 42.5 127.6

39 51.6 26.3 78.9

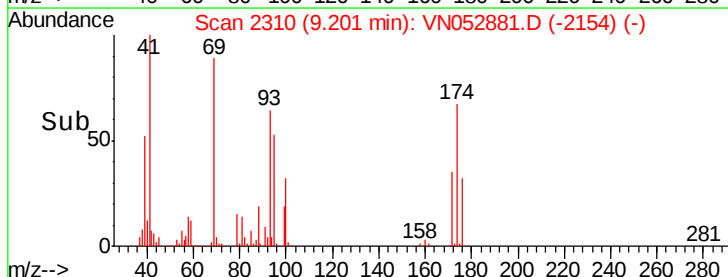
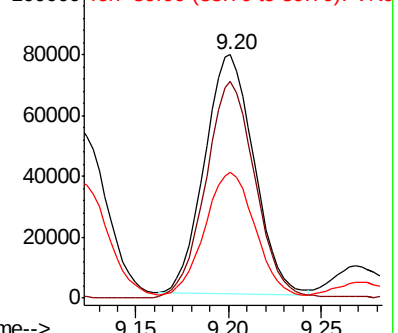


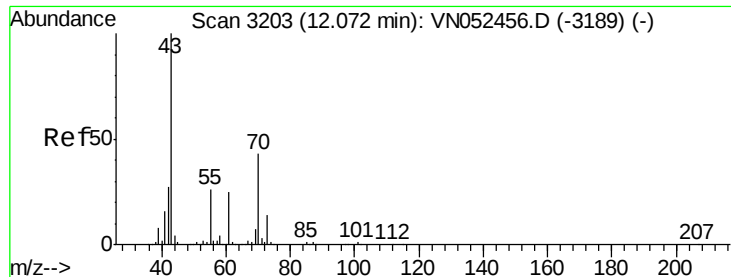
Abundance

Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

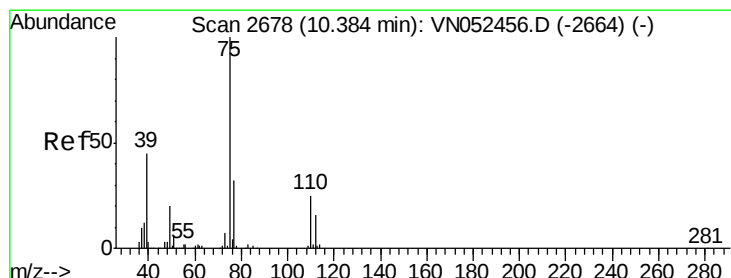
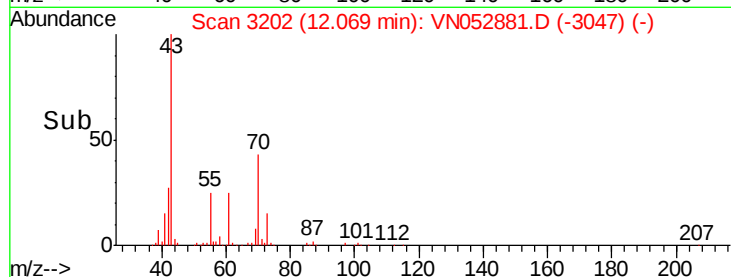
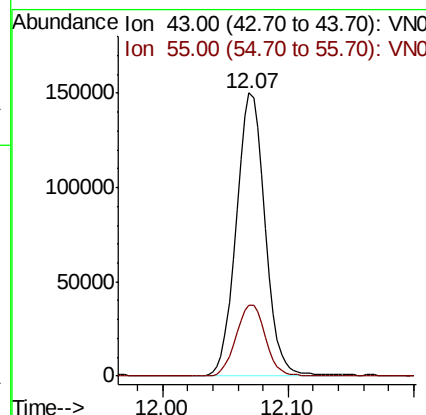
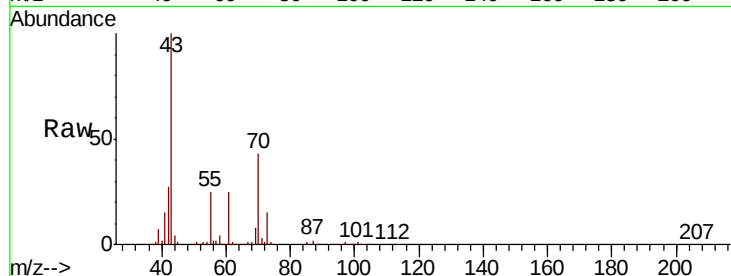




#47  
n-amvl Acetate  
Concen: 20.047 ug/l  
RT: 12.07 min Scan# 3202  
Delta R.T. -0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

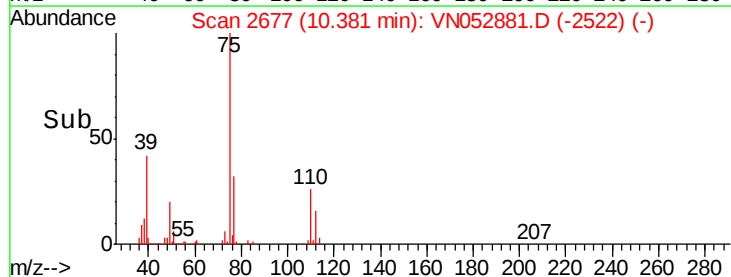
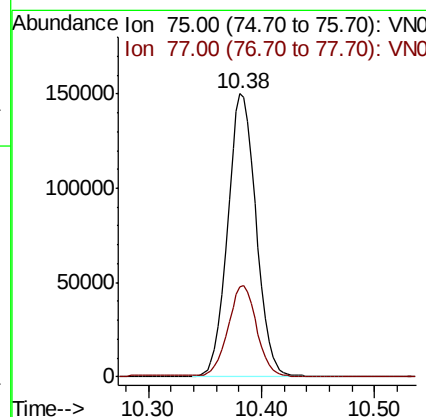
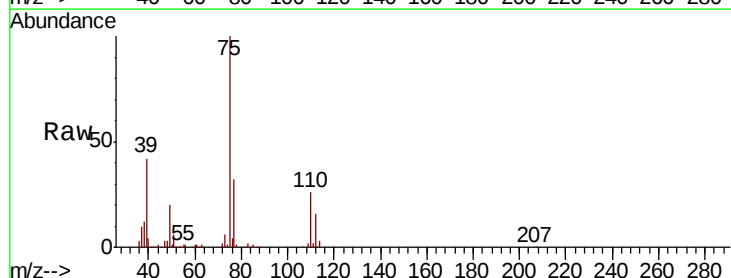
Instrument :  
MSVOA\_N  
ClientSampled :

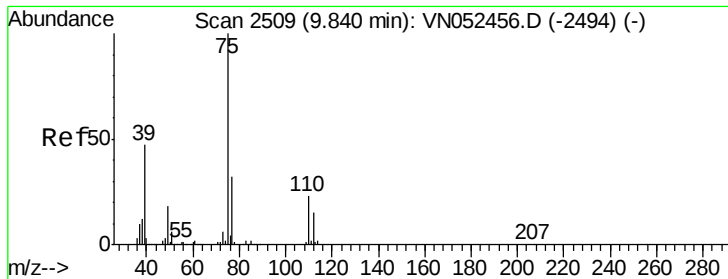
Tot Ion: 43 Resp: 237525  
Ion Ratio Lower Upper  
43 100  
55 26.0 21.1 31.7



#48  
t-1,3-Dichloropropene  
Concen: 19.634 ug/l  
RT: 10.38 min Scan# 2677  
Delta R.T. -0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion: 75 Resp: 262312  
Ion Ratio Lower Upper  
75 100  
77 31.7 25.6 38.4



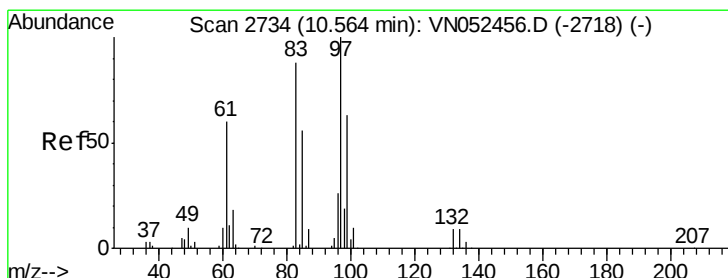
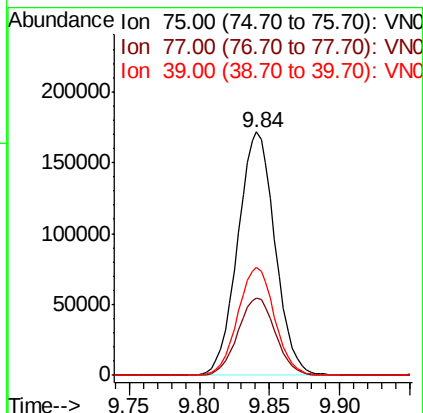
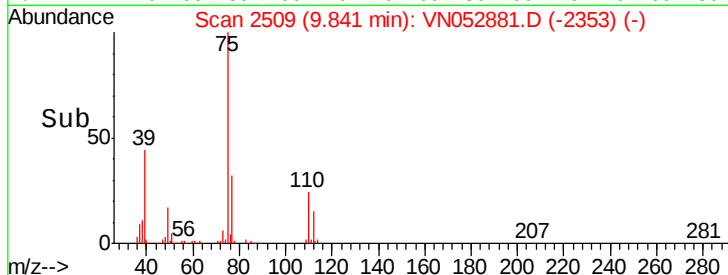
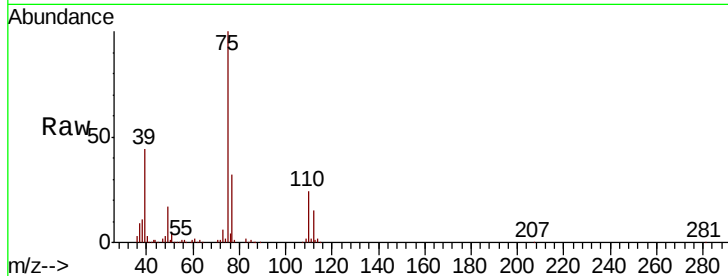


#49

cis-1,3-Dichloropropene  
Concen: 19.513 ug/l  
RT: 9.84 min Scan# 2509  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Instrument :  
MSVOA\_N  
ClientSampleId :

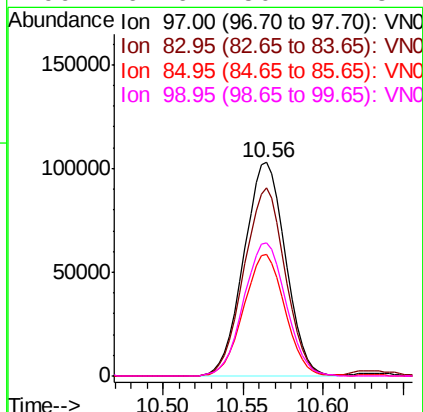
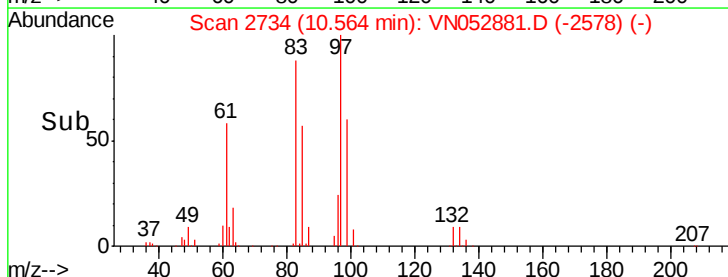
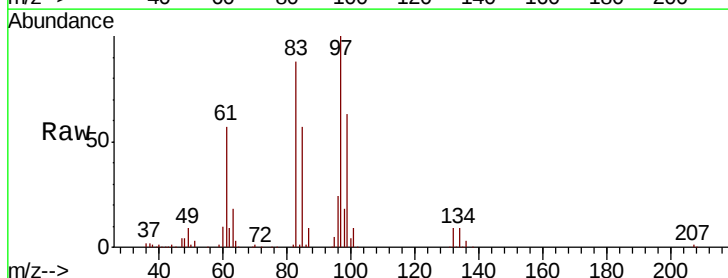
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.9  | 25.4  | 38.0  |
| 39      | 44.3  | 37.3  | 55.9  |

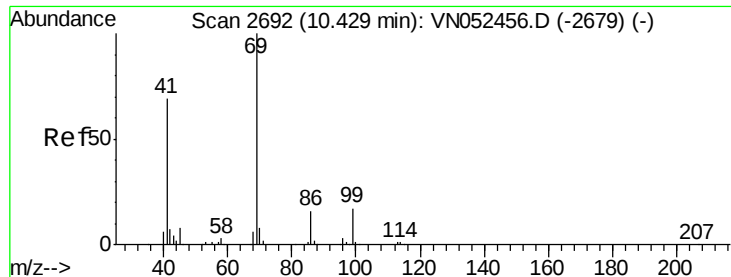


#50

1,1,2-Trichloroethane  
Concen: 20.878 ug/l  
RT: 10.56 min Scan# 2734  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 88.0  | 70.4  | 105.6 |
| 85      | 56.8  | 45.0  | 67.6  |
| 99      | 62.6  | 50.2  | 75.2  |





#51

Ethyl methacrylate

Concen: 20.073 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampled :

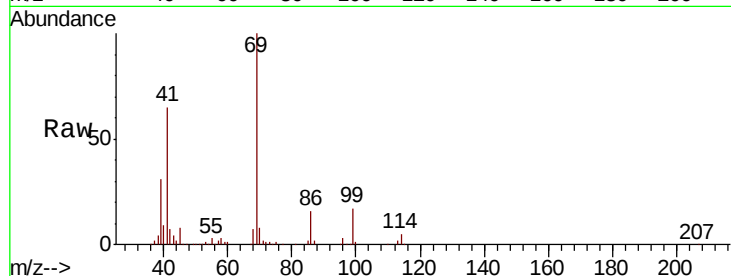
Tot Ion: 69 Resp: 222869

Ion Ratio Lower Upper

69 100

41 64.7 34.4 103.3

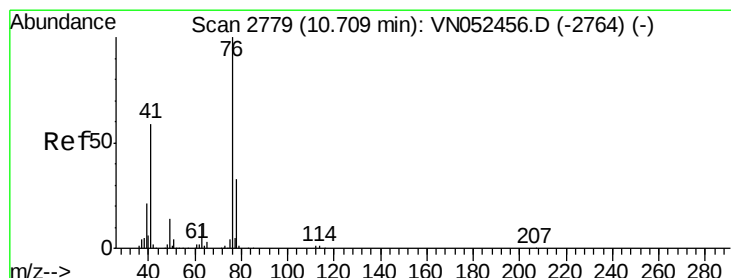
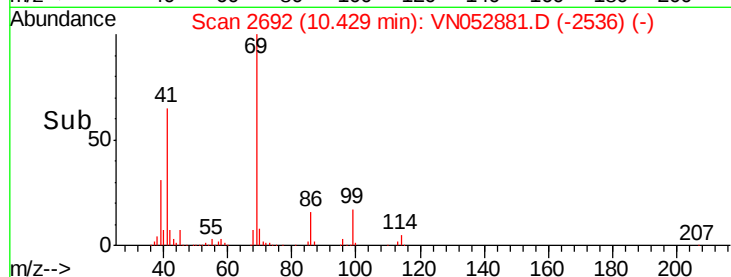
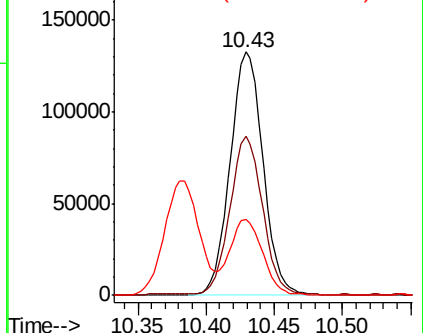
39 30.8 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN052881.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN052881.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN052881.D (-2679) (-)



#52

1,3-Dichloropropane

Concen: 20.044 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052881.D

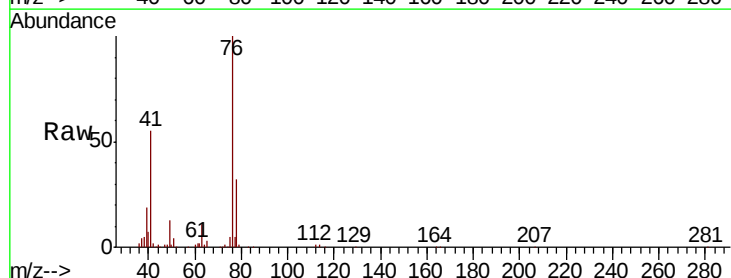
Acq: 14 Dec 2018 11:42

Tgt Ion: 76 Resp: 315409

Ion Ratio Lower Upper

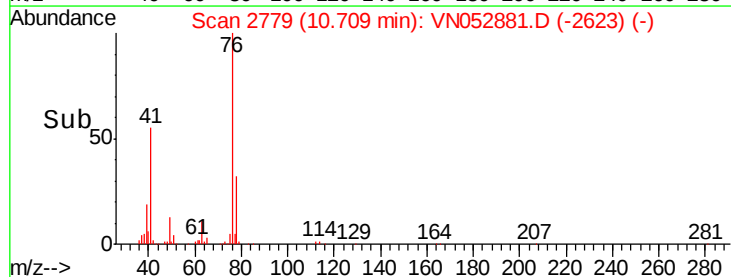
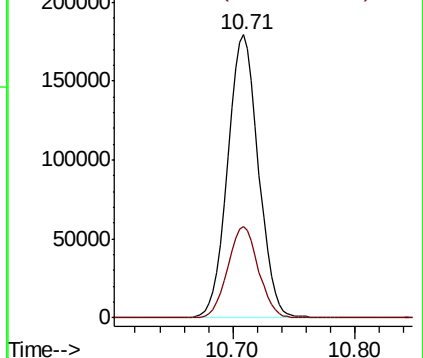
76 100

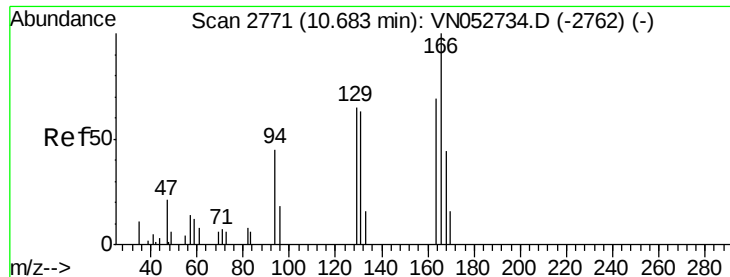
78 32.3 0.0 64.8



Abundance Ion 76.00 (75.70 to 76.70): VN052881.D (-2623) (-)

Ion 78.00 (77.70 to 78.70): VN052881.D (-2623) (-)

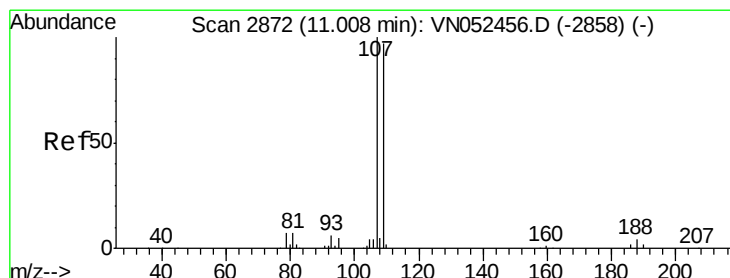
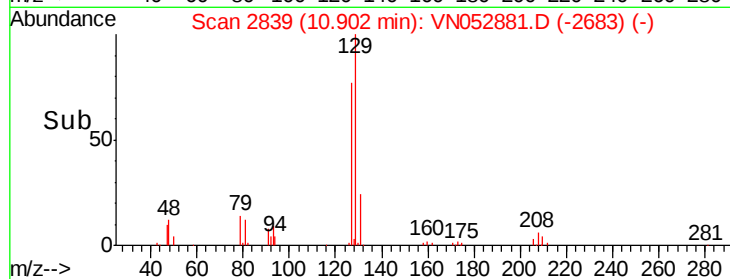
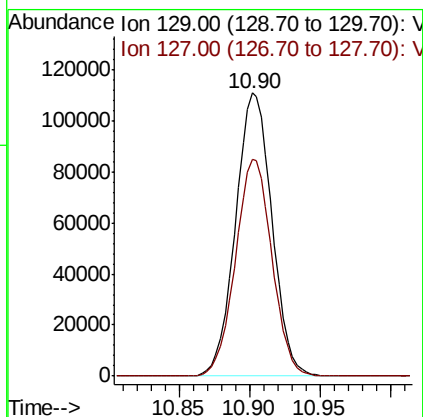
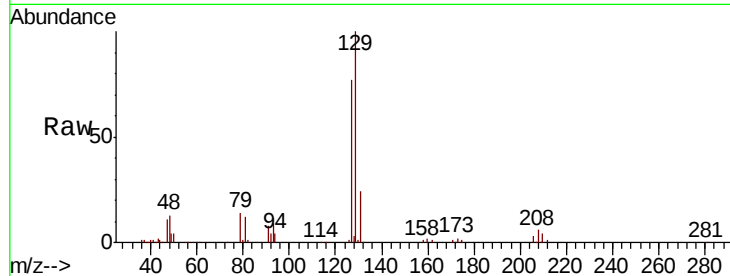




#53  
Dibromochloromethane  
Concen: 20.572 ug/l  
RT: 10.90 min Scan# 2839  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

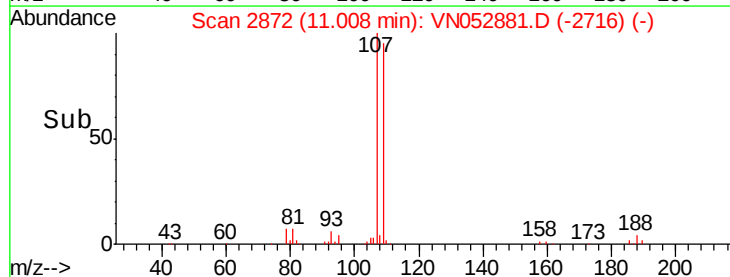
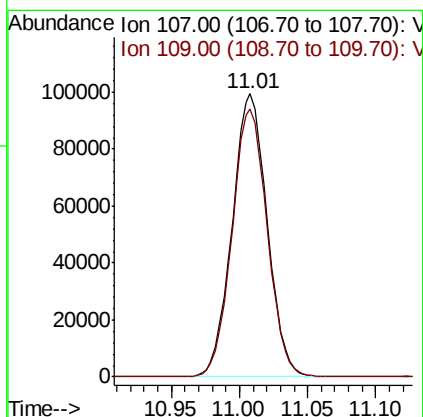
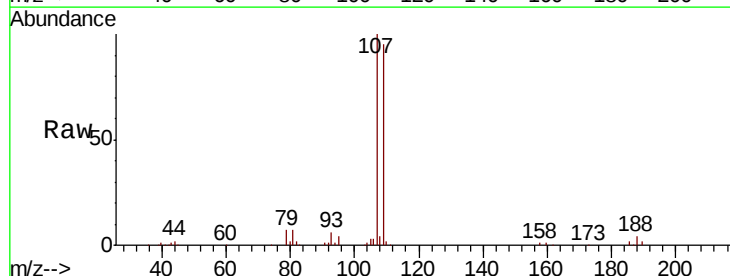
Instrument :  
MSVOA\_N  
ClientSampled :

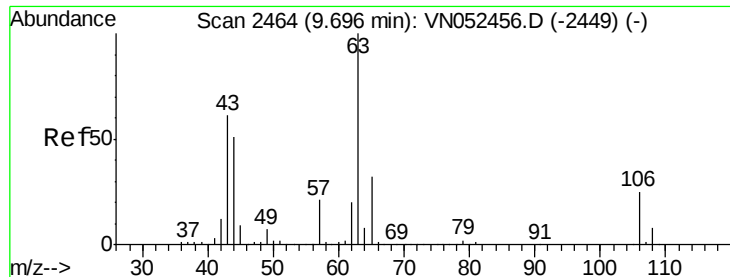
Tot Ion:129 Resp: 200224  
Ion Ratio Lower Upper  
129 100  
127 76.8 37.6 112.8



#54  
1,2-Dibromoethane  
Concen: 20.475 ug/l  
RT: 11.01 min Scan# 2872  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion:107 Resp: 176872  
Ion Ratio Lower Upper  
107 100  
109 95.2 77.1 115.7

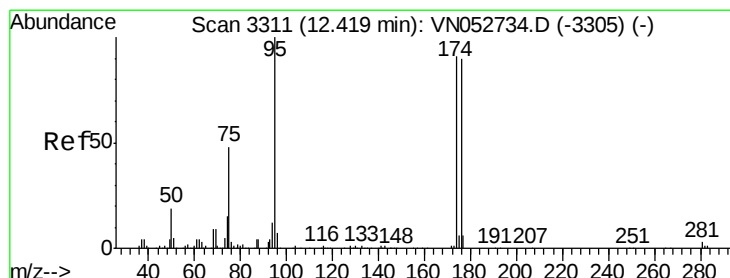
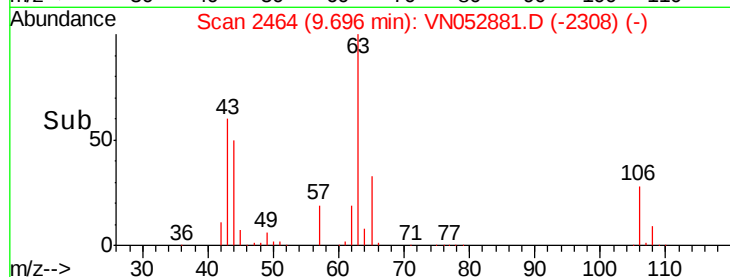
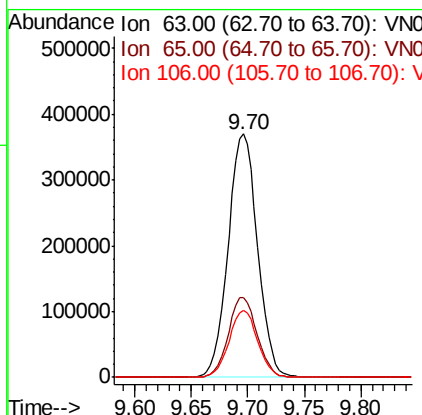
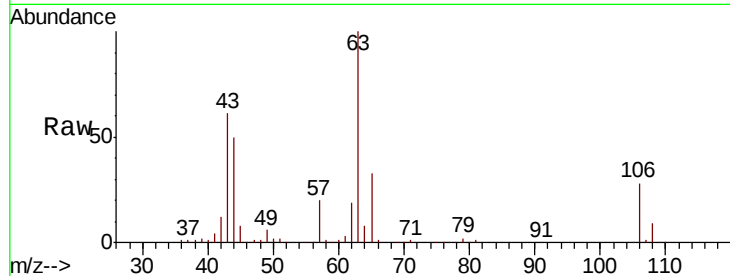




#55  
2-Chloroethyl vinyl ether  
Concen: 102.706 ug/l  
RT: 9.70 min Scan# 2464  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

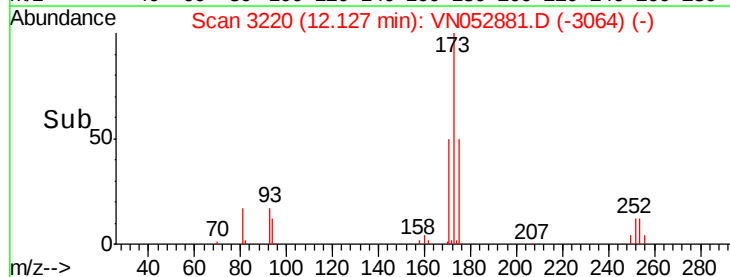
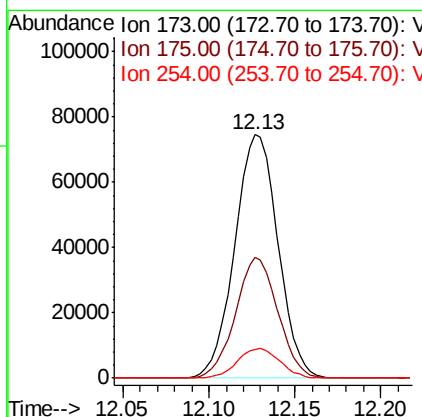
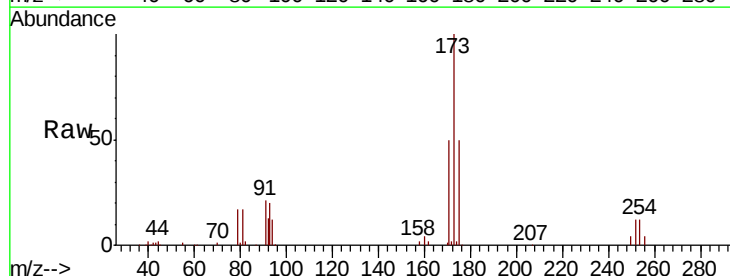
Instrument :  
MSVOA\_N  
ClientSampleId :

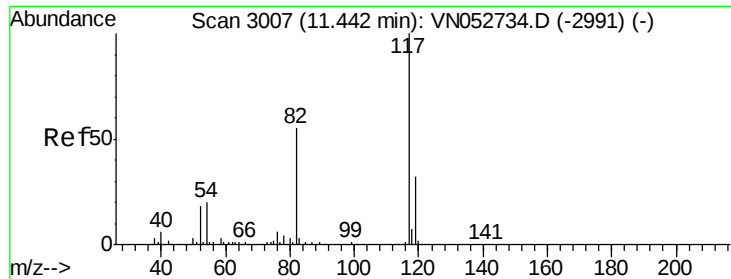
Tot Ion: 63 Resp: 667515  
Ion Ratio Lower Upper  
63 100  
65 32.2 25.4 38.2  
106 26.9 20.4 30.6



#56  
Bromoform  
Concen: 20.540 ug/l  
RT: 12.13 min Scan# 3220  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion: 173 Resp: 130674  
Ion Ratio Lower Upper  
173 100  
175 48.4 38.7 58.1  
254 11.9 8.4 12.6

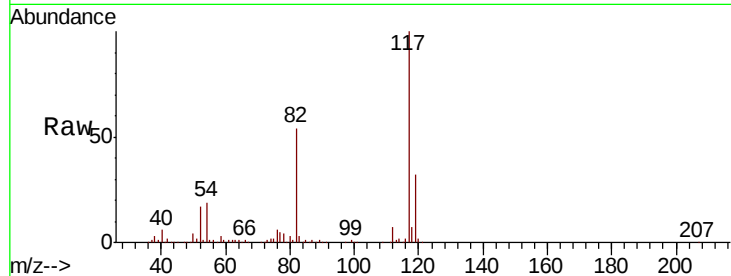




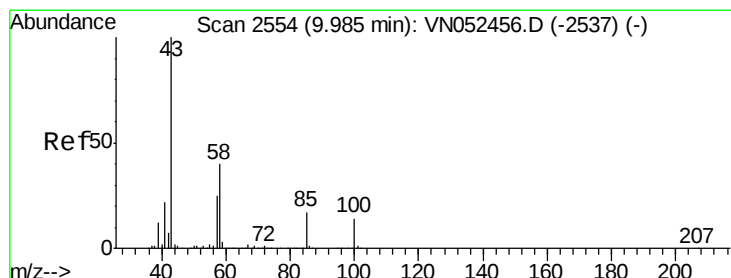
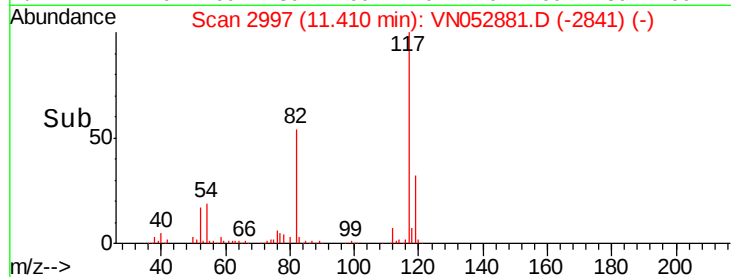
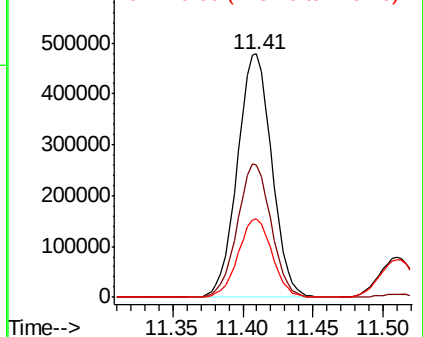
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:117 Resp: 820144  
Ion Ratio Lower Upper  
117 100  
82 53.8 44.2 66.2  
119 31.9 25.4 38.2

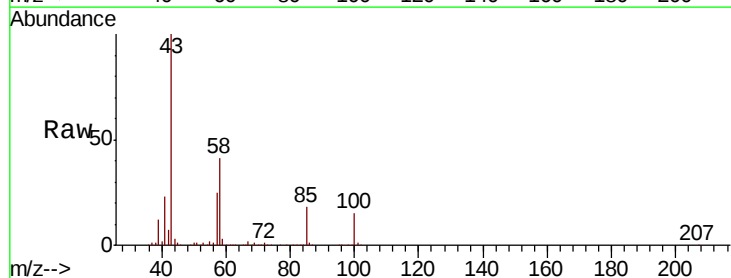


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V

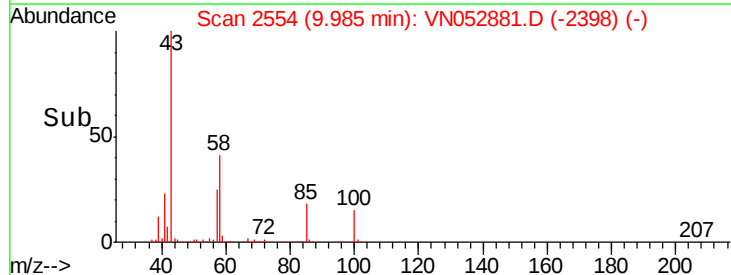
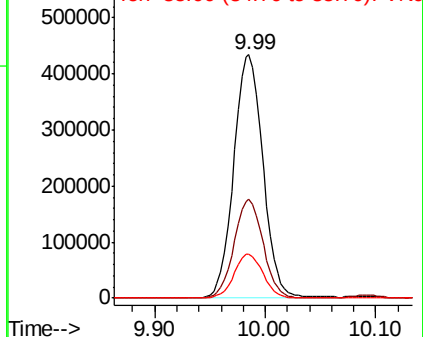


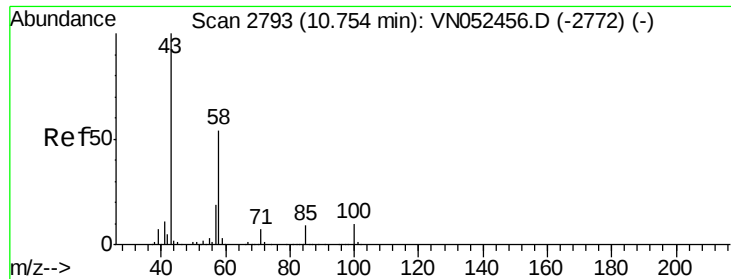
#58  
4-Methyl-2-Pentanone  
Concen: 100.141 ug/l  
RT: 9.99 min Scan# 2554  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion: 43 Resp: 796231  
Ion Ratio Lower Upper  
43 100  
58 40.3 31.6 47.4  
85 17.9 13.3 19.9



Abundance Ion 43.00 (42.70 to 43.70): V  
Ion 58.00 (57.70 to 58.70): V  
Ion 85.00 (84.70 to 85.70): V

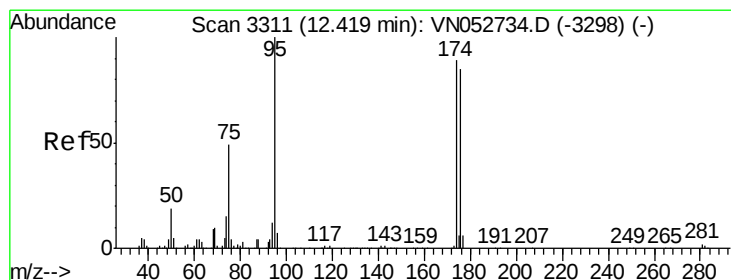
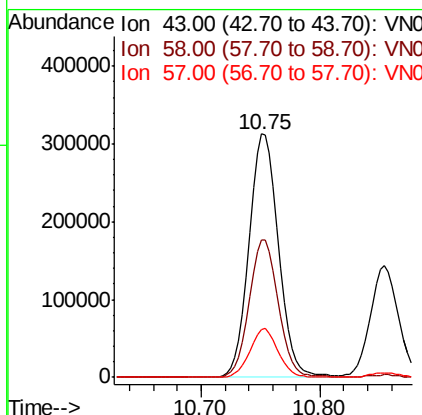
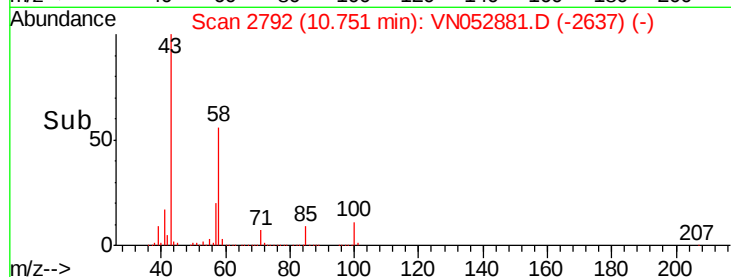
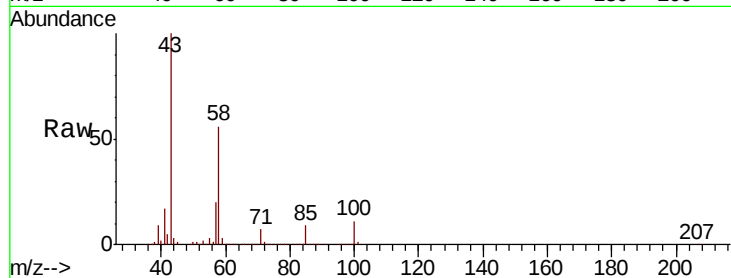




#59  
2-Hexanone  
Concen: 98.777 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. -0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

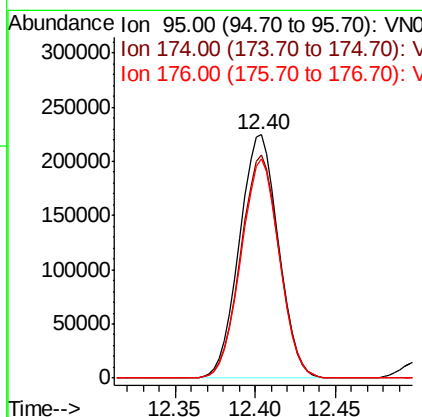
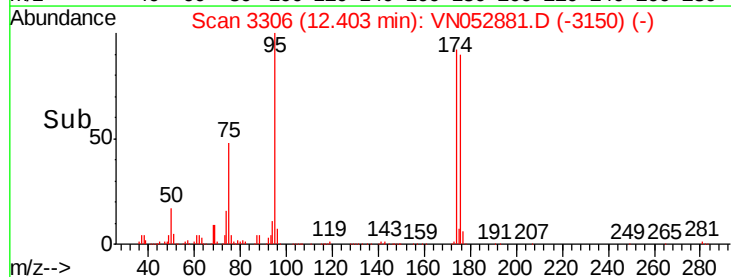
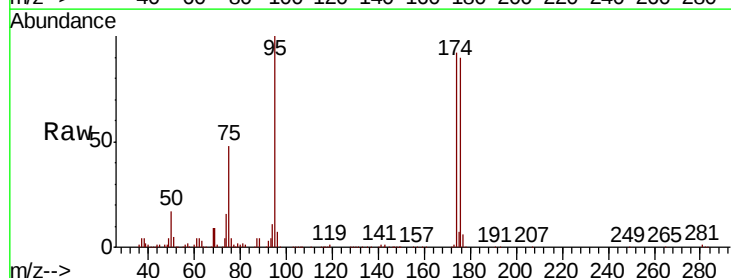
Instrument :  
MSVOA\_N  
ClientSampleId :

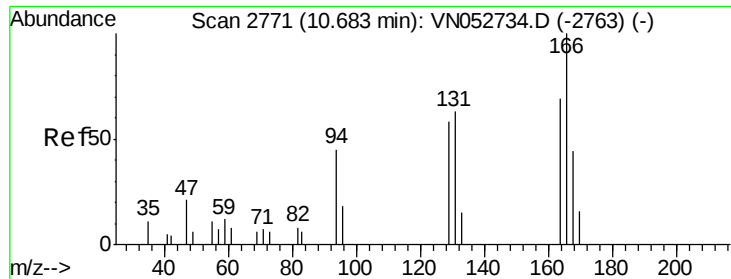
Tot Ion: 43 Resp: 536504  
Ion Ratio Lower Upper  
43 100  
58 55.7 43.2 64.8  
57 19.1 14.9 22.3



#60  
4-Bromofluorobenzene  
Concen: 98.777 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion: 95 Resp: 374836  
Ion Ratio Lower Upper  
95 100  
174 90.6 67.9 101.9  
176 88.2 66.4 99.6





#61

Tetrachloroethene

Concen: 22.973 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion:164 Resp: 232048

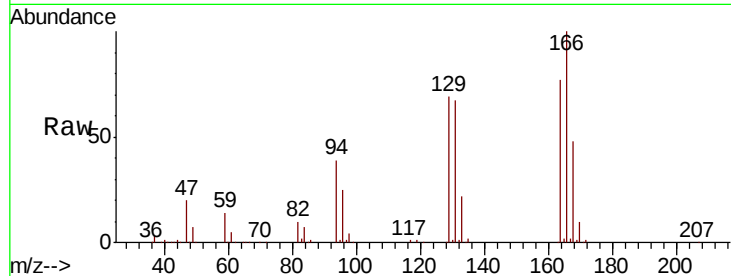
Ion Ratio Lower Upper

164 100

166 129.5 104.6 157.0

129 90.0 75.3 112.9

131 87.0 74.3 111.5

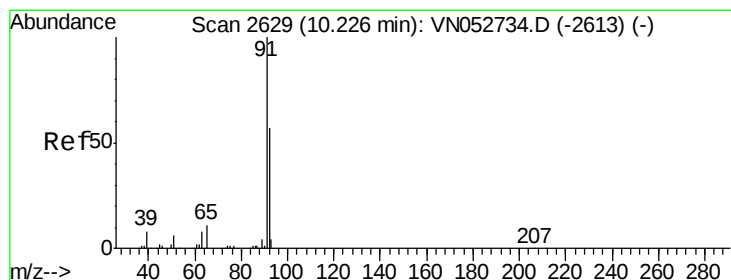
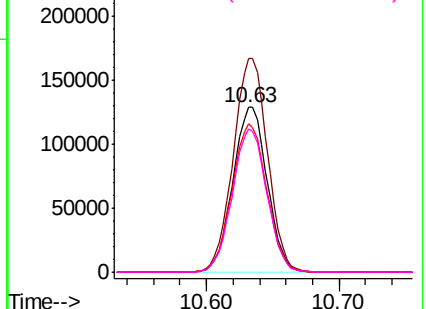
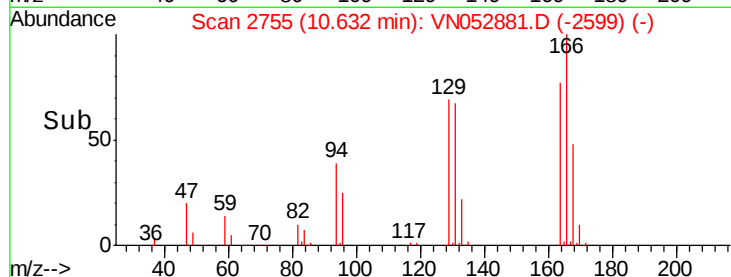


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 19.988 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052881.D

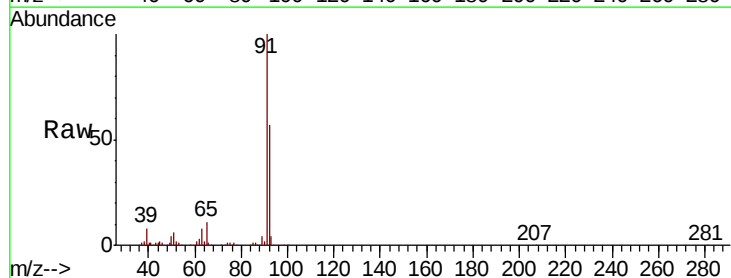
Acq: 14 Dec 2018 11:42

Tgt Ion: 91 Resp: 903688

Ion Ratio Lower Upper

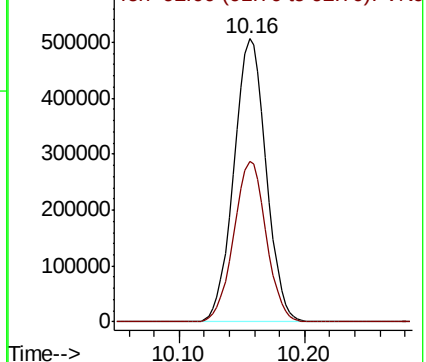
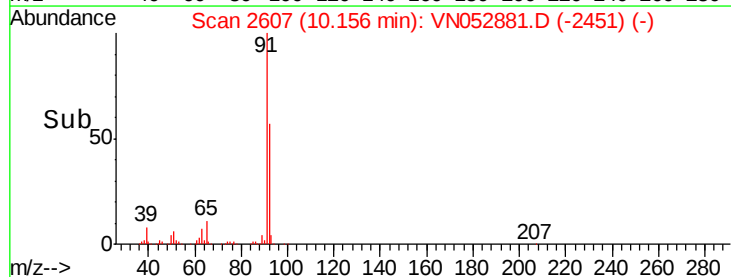
91 100

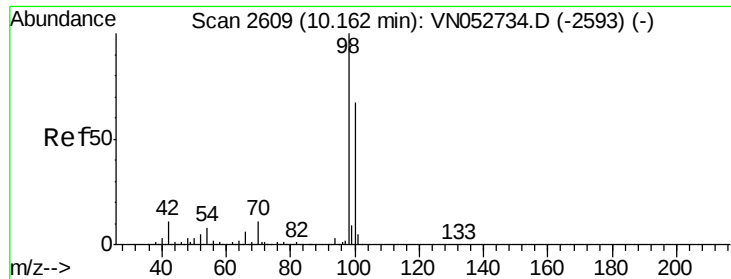
92 57.0 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 19.988 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

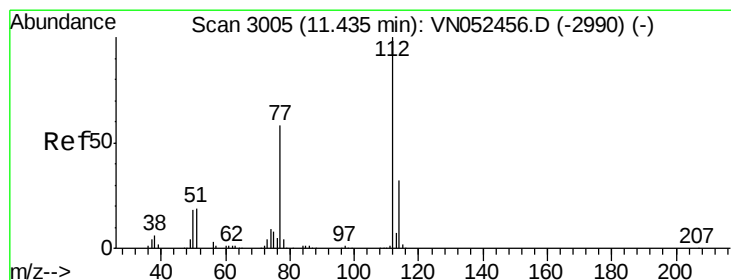
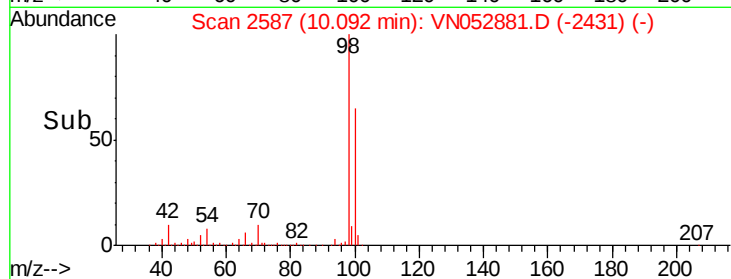
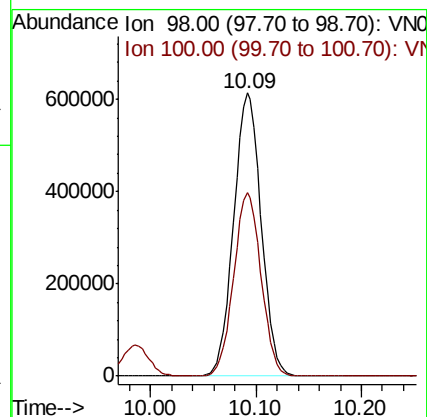
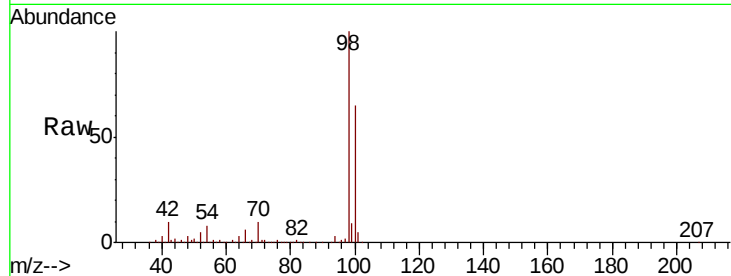
ClientSampleId :

Tot Ion: 98 Resp: 1106478

Ion Ratio Lower Upper

98 100

100 64.5 51.1 76.7



#64

Chlorobenzene

Concen: 20.313 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN052881.D

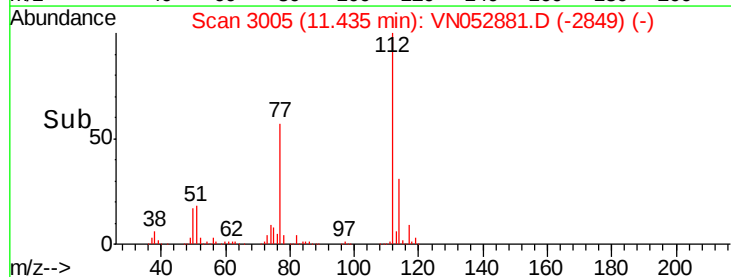
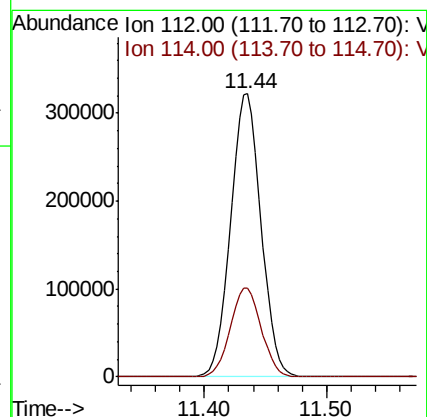
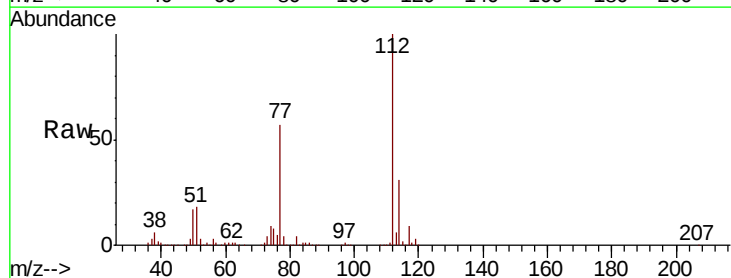
Acq: 14 Dec 2018 11:42

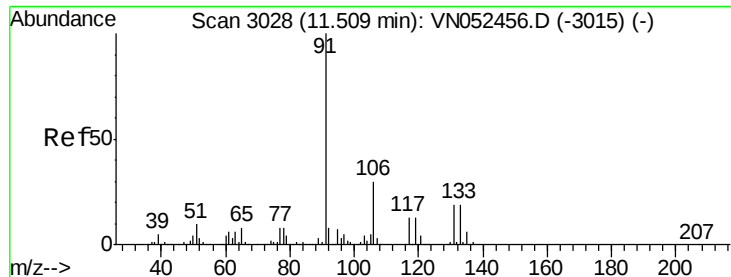
Tgt Ion: 112 Resp: 560568

Ion Ratio Lower Upper

112 100

114 31.4 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 21.045 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampleId :

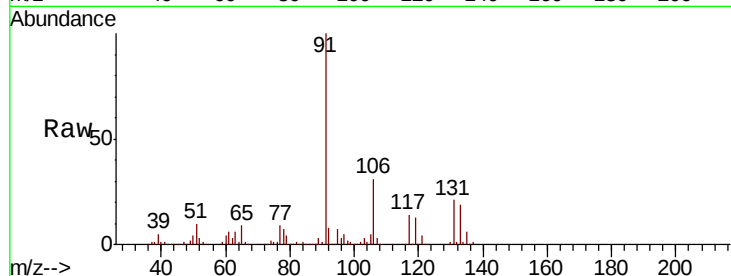
Tot Ion:131 Resp: 201591

Ion Ratio Lower Upper

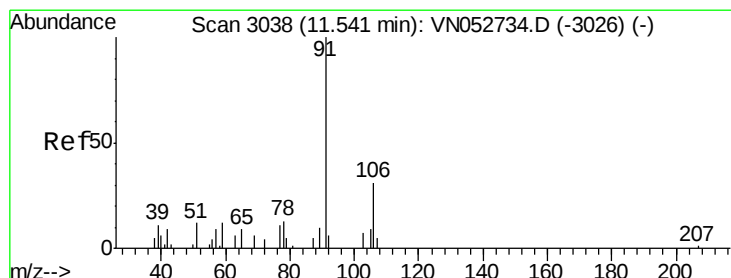
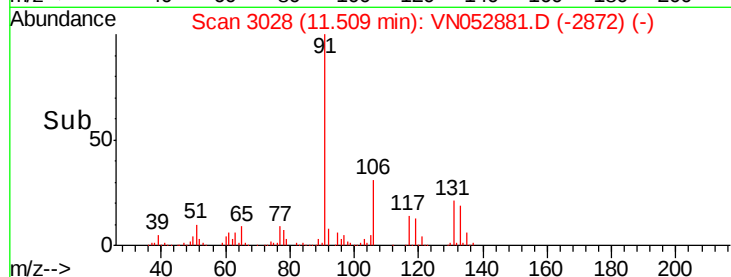
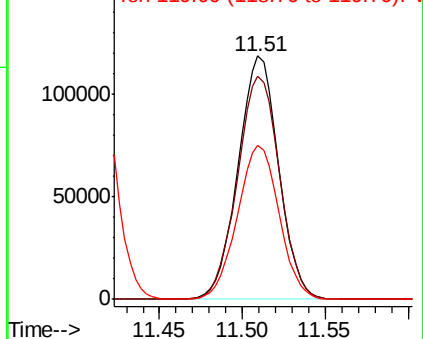
131 100

133 95.4 0.0 193.4

119 65.1 0.0 133.0



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: 19.853 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN052881.D

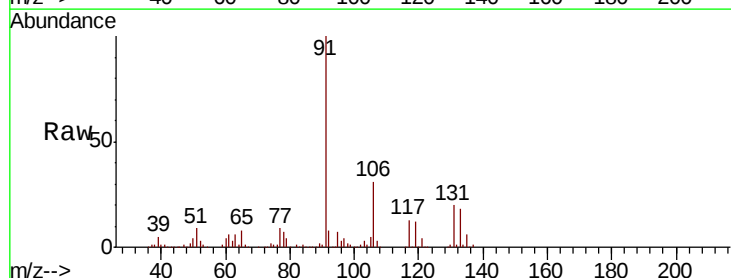
Acq: 14 Dec 2018 11:42

Tgt Ion: 91 Resp: 967404

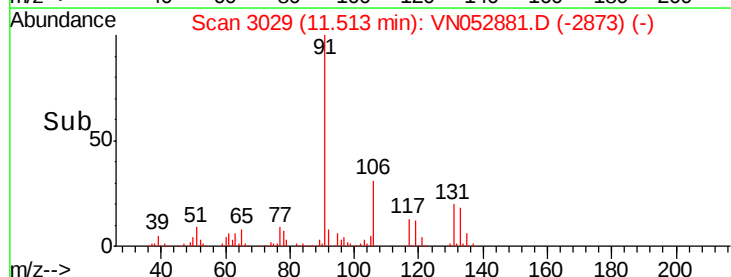
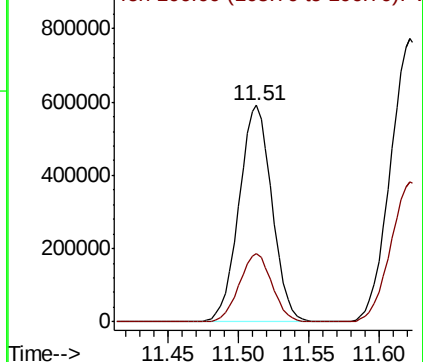
Ion Ratio Lower Upper

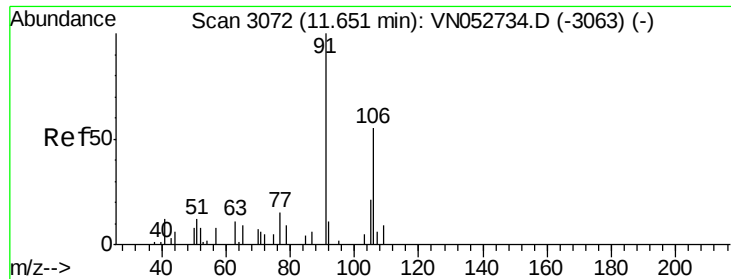
91 100

106 31.5 24.3 36.5



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

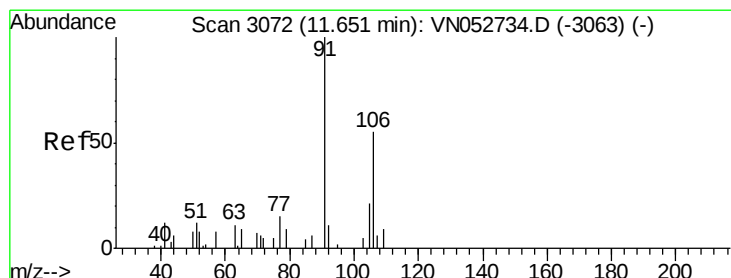
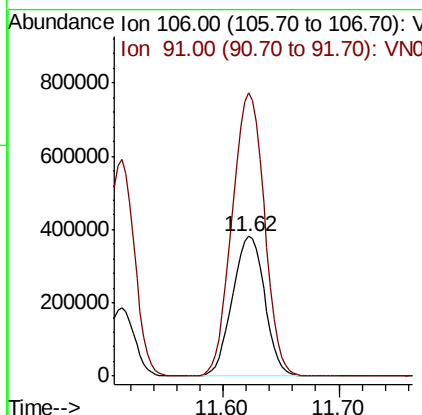
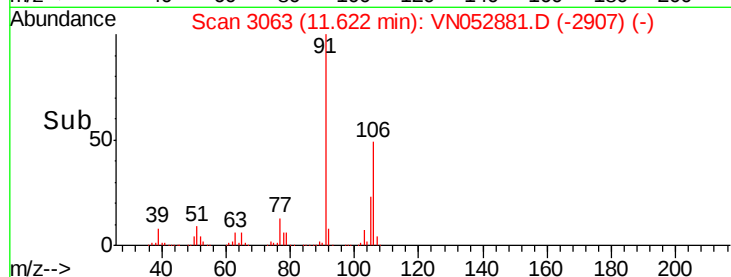
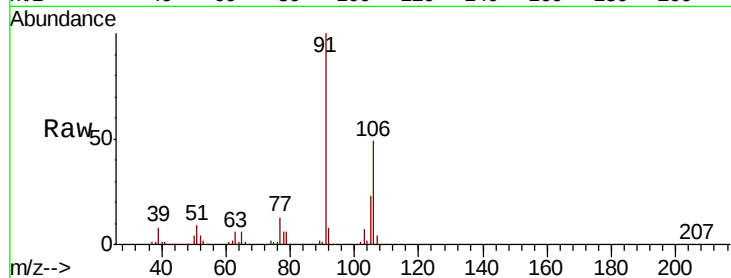




#67  
m/p-Xylenes  
Concen: 40.538 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

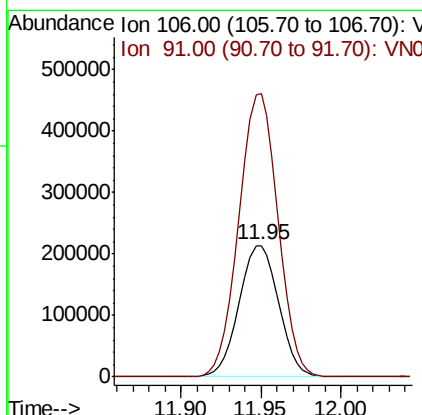
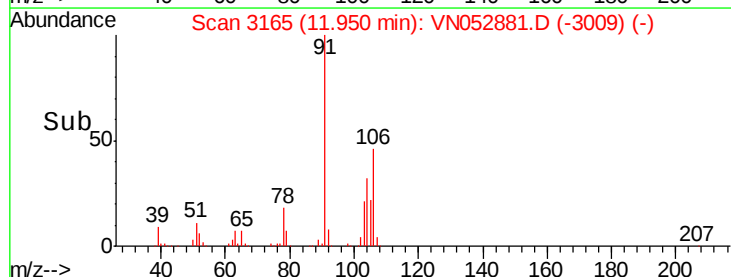
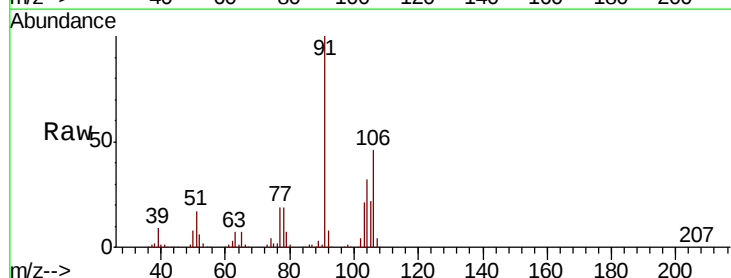
Instrument :  
MSVOA\_N  
ClientSampleId :

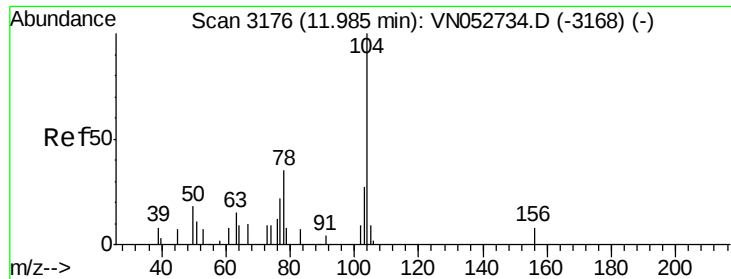
Tot Ion:106 Resp: 735921  
Ion Ratio Lower Upper  
106 100  
91 202.3 163.9 245.9



#68  
o-Xylene  
Concen: 20.505 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion:106 Resp: 361295  
Ion Ratio Lower Upper  
106 100  
91 212.7 107.8 323.4

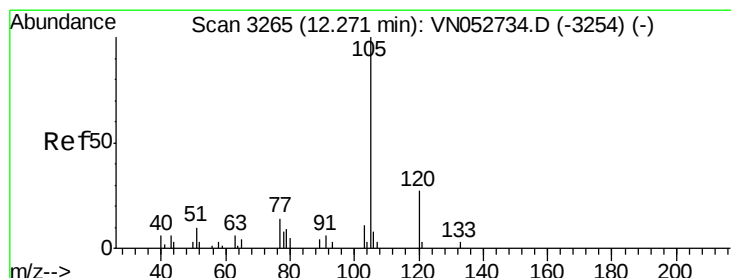
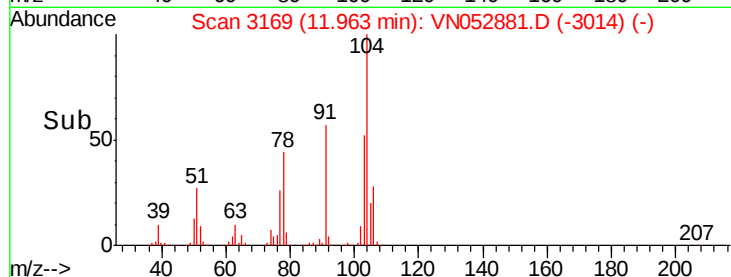
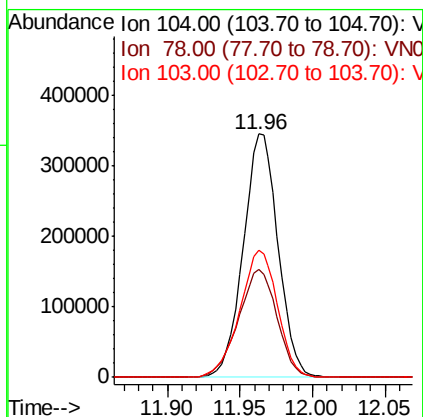
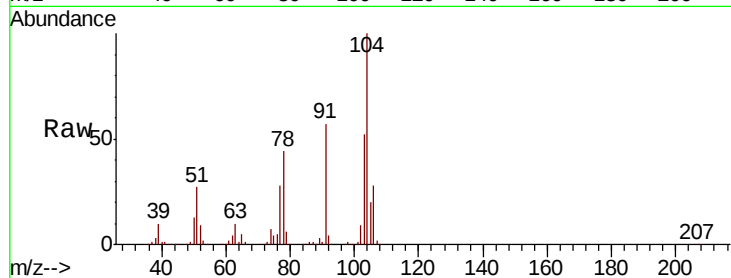




#69  
Stvrene  
Concen: 20.294 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. -0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

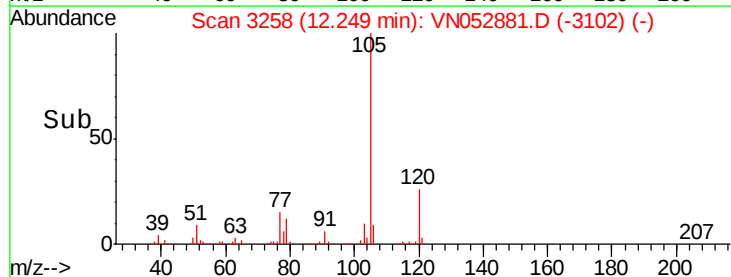
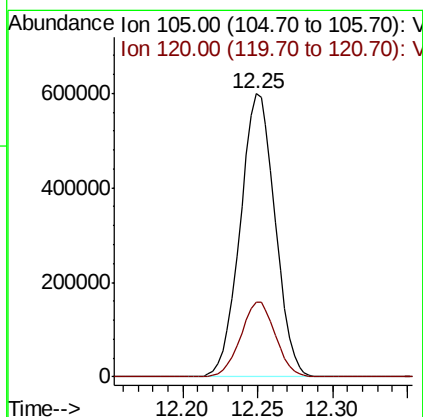
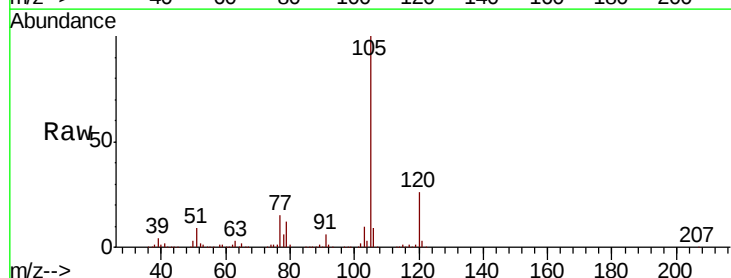
Instrument :  
MSVOA\_N  
ClientSampleId :

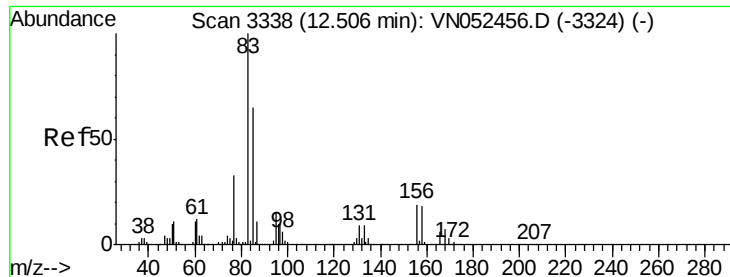
Tot Ion:104 Resp: 577161  
Ion Ratio Lower Upper  
104 100  
78 49.2 39.3 58.9  
103 56.6 44.6 66.8



#70  
Isopropylbenzene  
Concen: 20.707 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion:105 Resp: 970758  
Ion Ratio Lower Upper  
105 100  
120 26.5 18.6 34.6

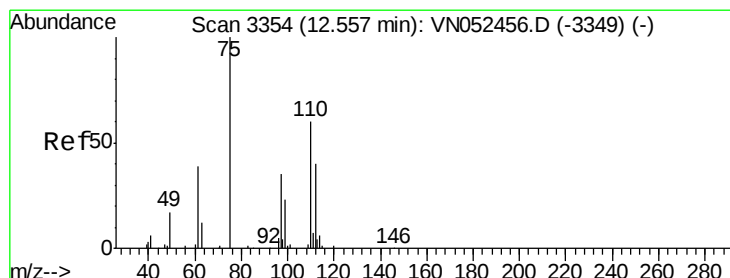
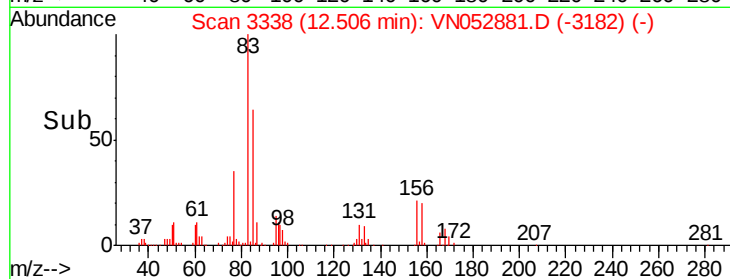
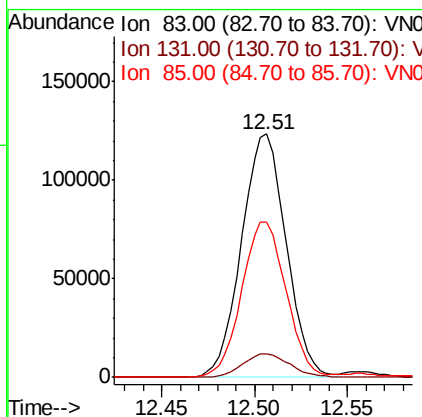
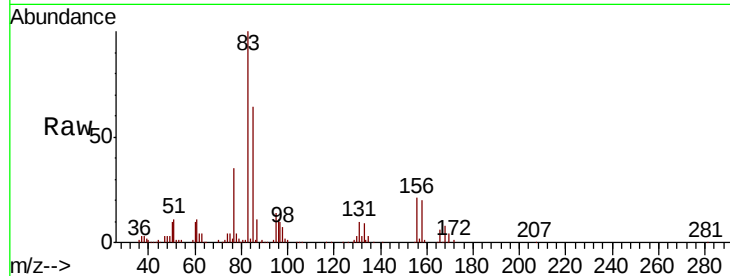




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 20.321 ug/l  
 RT: 12.51 min Scan# 3338  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

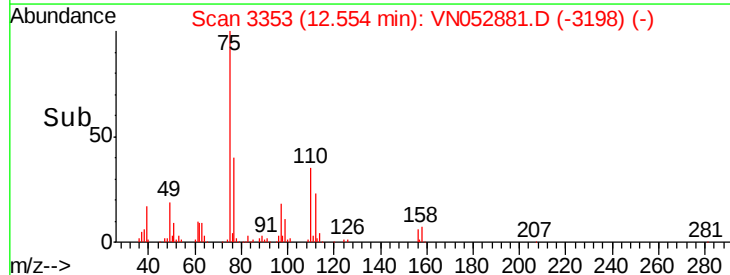
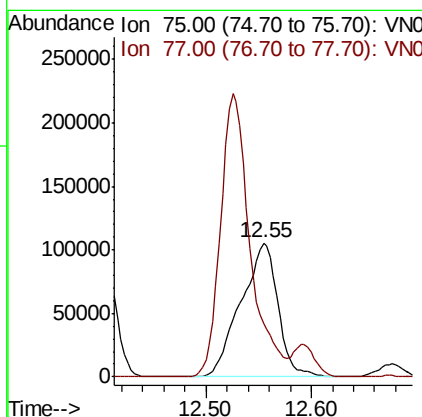
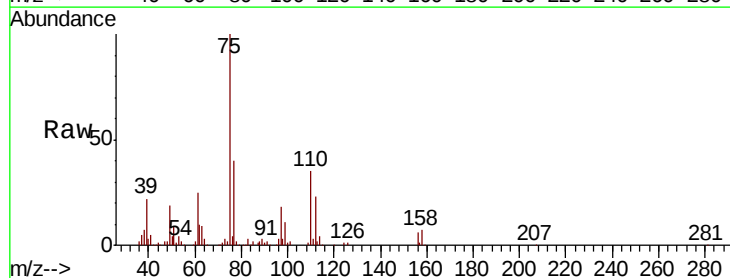
Instrument :  
 MSVOA\_N  
 ClientSampleId :

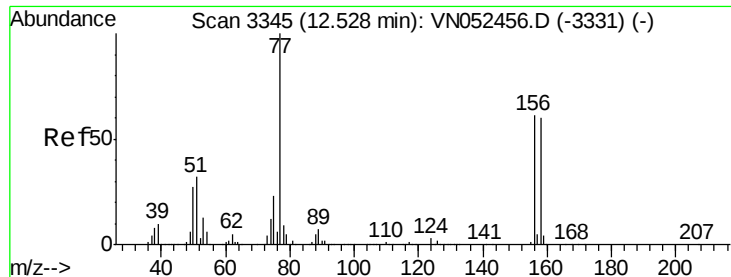
| Tot Ion   | 83    | Resp  | 207237 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 10.3  | 4.9   | 14.6   |
| 85        | 63.5  | 32.2  | 96.6   |



#72  
 1,2,3-Trichloropropane  
 Concen: 29.649 ug/l  
 RT: 12.55 min Scan# 3353  
 Delta R.T. -0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

| Tgt Ion   | 75    | Resp  | 259563 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 166.8 | 0.0   | 514.8  |





#73

Bromobenzene

Concen: 21.391 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampleId :

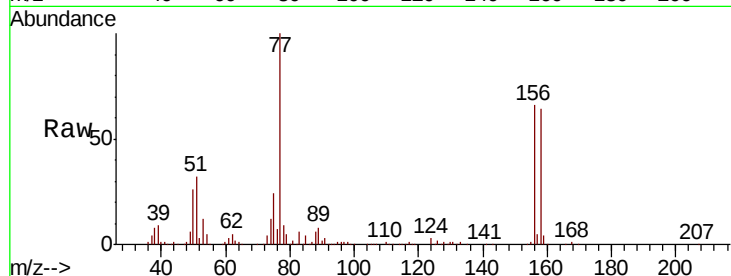
Tot Ion:156 Resp: 242548

Ion Ratio Lower Upper

156 100

77 178.5 0.0 382.6

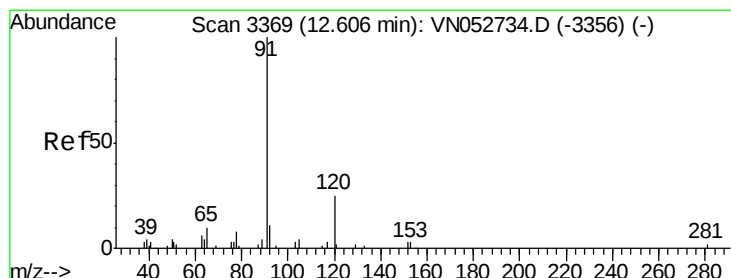
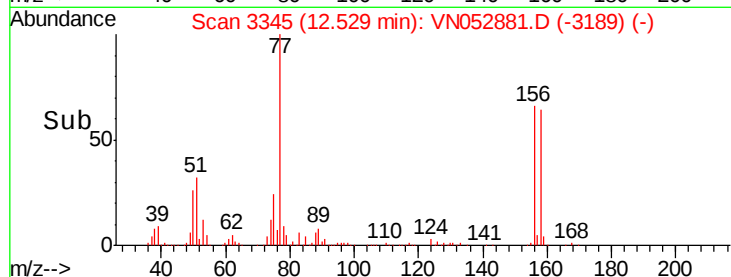
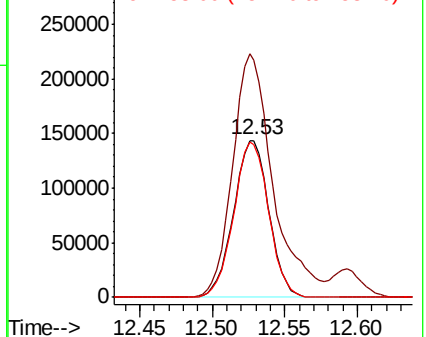
158 97.7 0.0 196.8



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: 19.866 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN052881.D

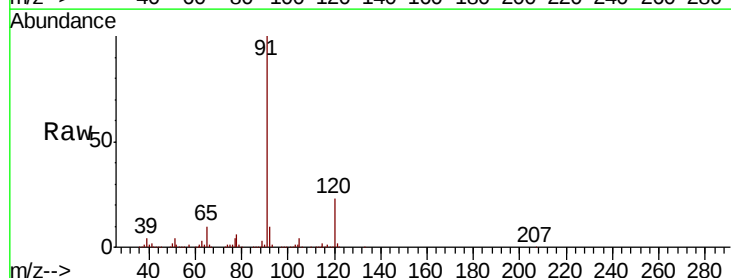
Acq: 14 Dec 2018 11:42

Tgt Ion: 91 Resp: 1085142

Ion Ratio Lower Upper

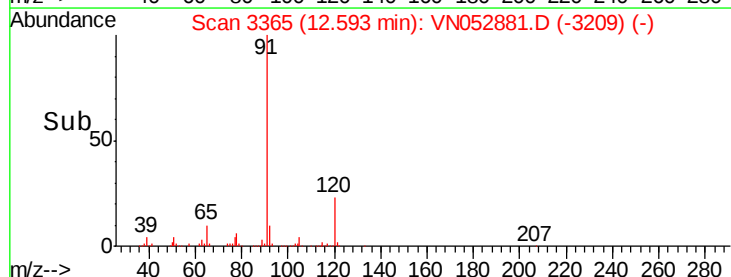
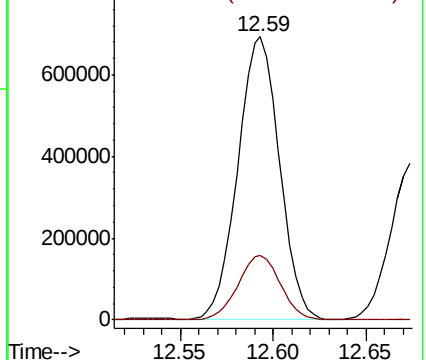
91 100

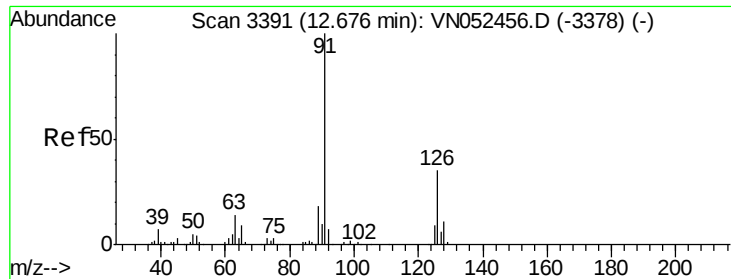
120 23.2 0.0 44.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 20.482 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

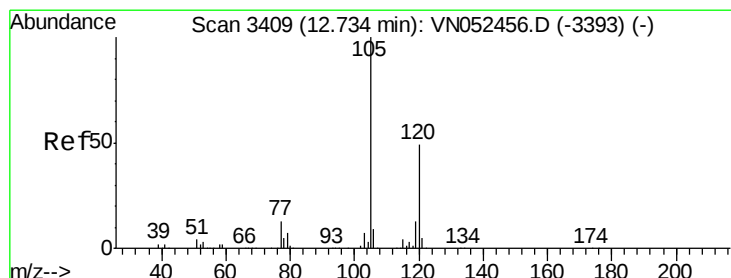
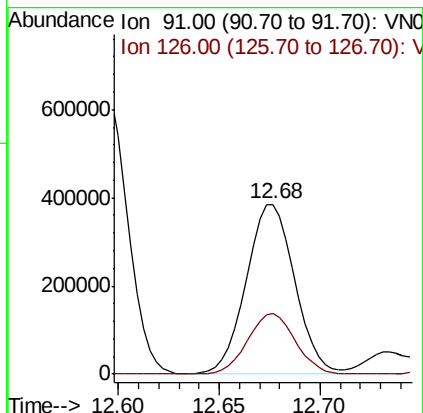
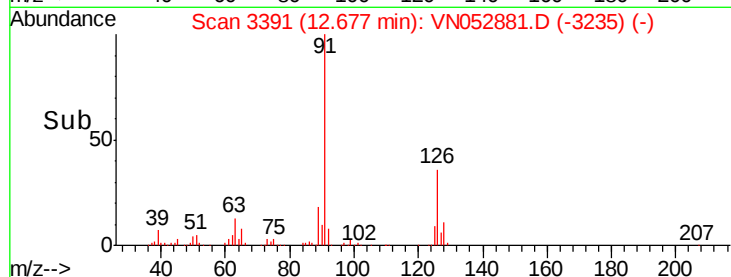
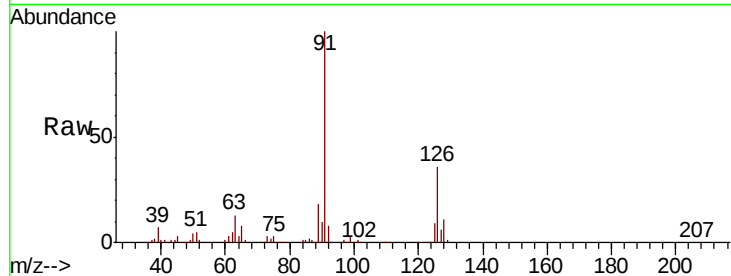
ClientSampleId :

Tot Ion: 91 Resp: 649392

Ion Ratio Lower Upper

91 100

126 35.1 0.0 68.4



#76

1,3,5-Trimethylbenzene

Concen: 20.443 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052881.D

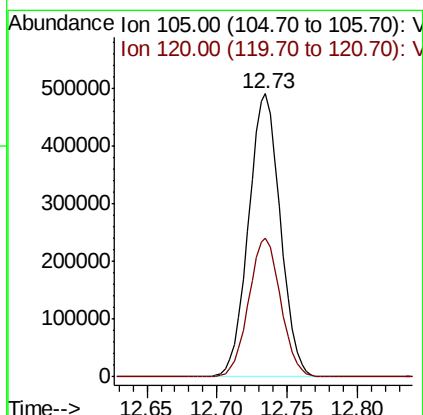
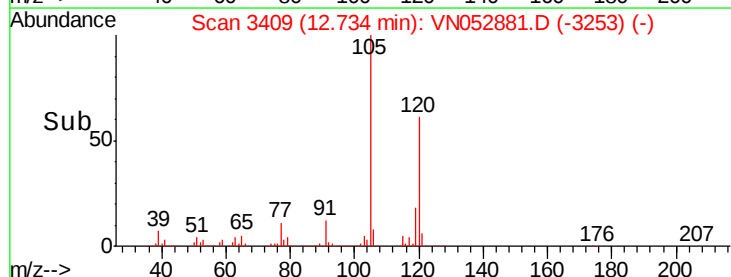
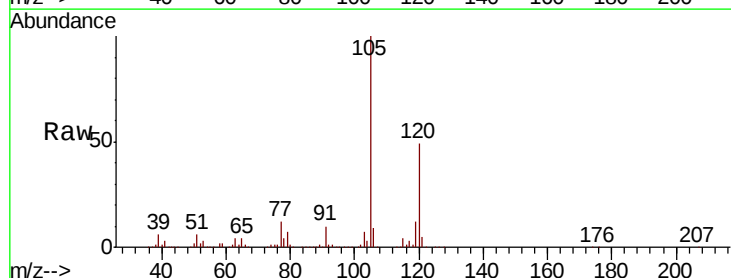
Acq: 14 Dec 2018 11:42

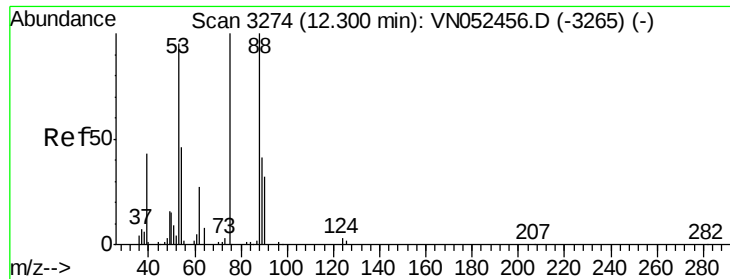
Tgt Ion:105 Resp: 774118

Ion Ratio Lower Upper

105 100

120 49.3 0.0 97.4





#77

t-1,4-Dichloro-2-butene

Concen: 19.283 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampleId :

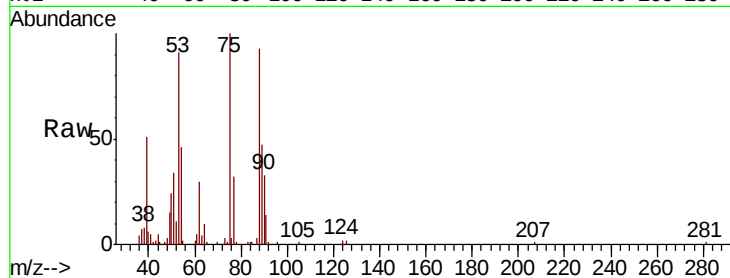
Tot Ion: 75 Resp: 53328

Ion Ratio Lower Upper

75 100

53 90.7 48.5 145.6

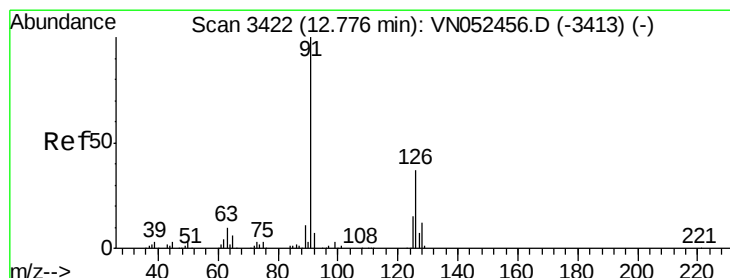
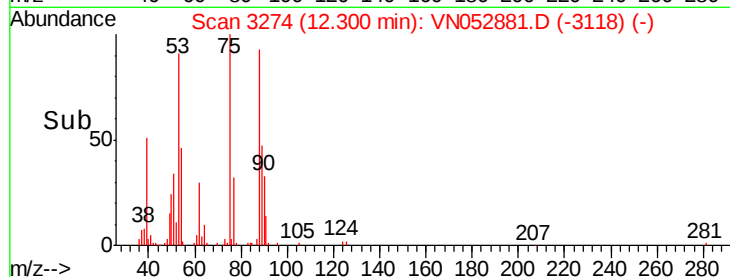
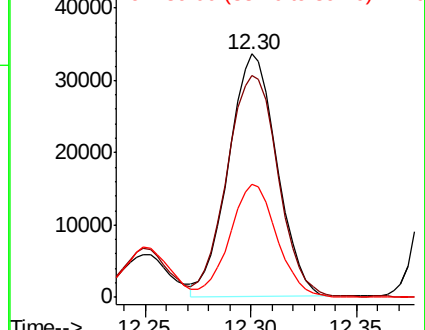
89 46.9 21.7 65.1



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 20.544 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN052881.D

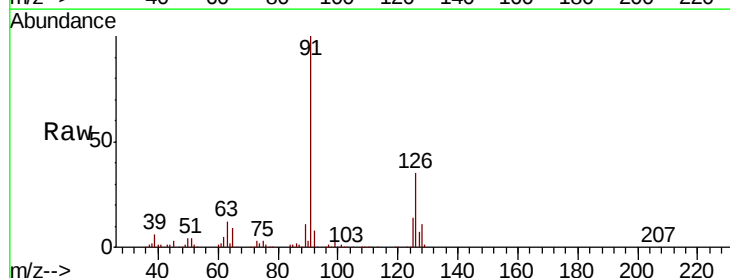
Acq: 14 Dec 2018 11:42

Tgt Ion: 91 Resp: 650490

Ion Ratio Lower Upper

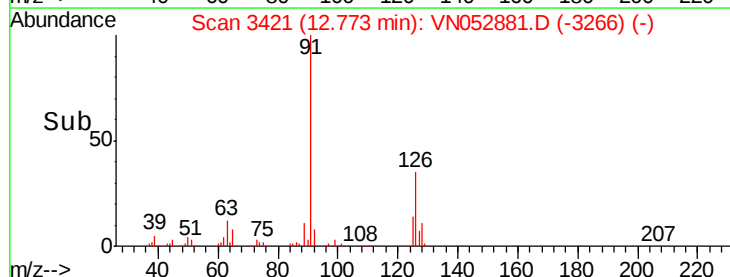
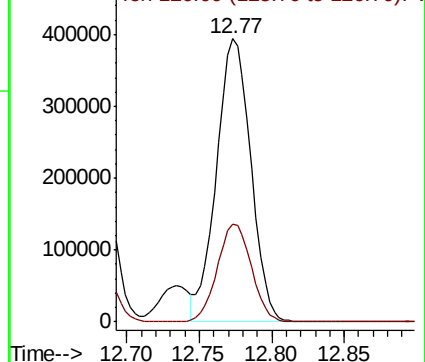
91 100

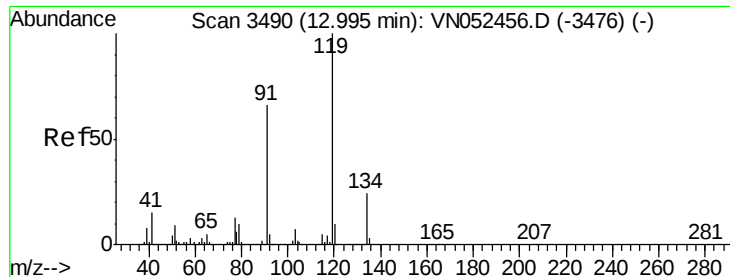
126 34.5 0.0 68.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

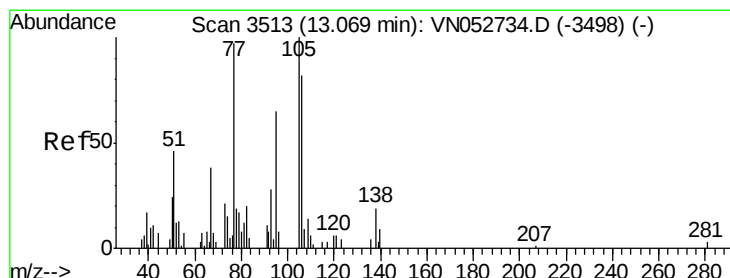
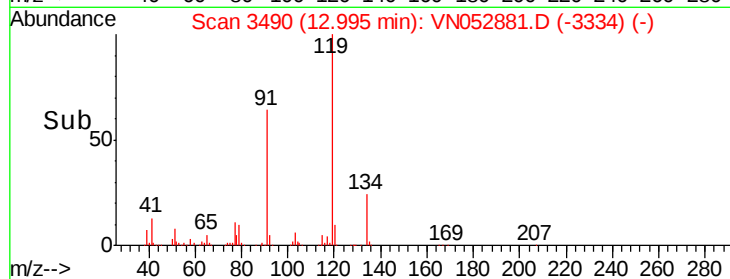
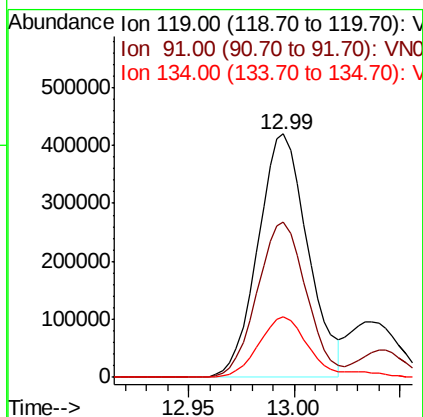
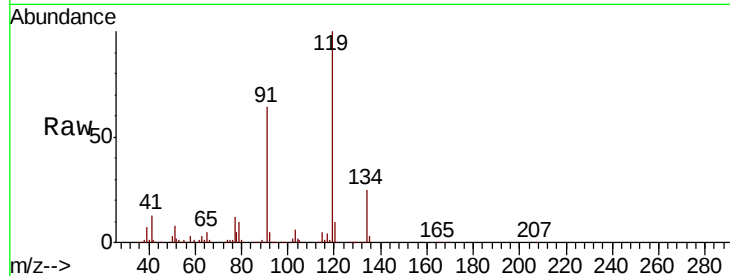




#79  
tert-butylbenzene  
Concen: 20.943 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

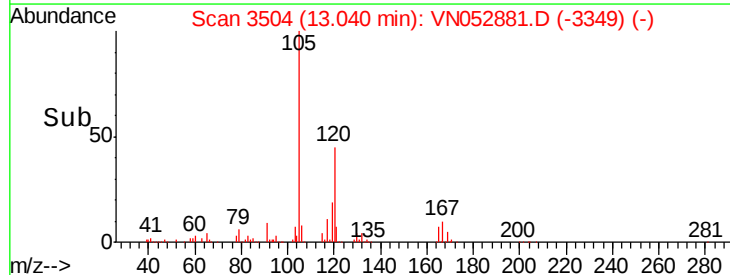
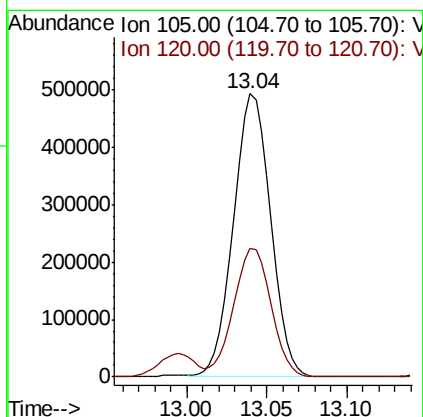
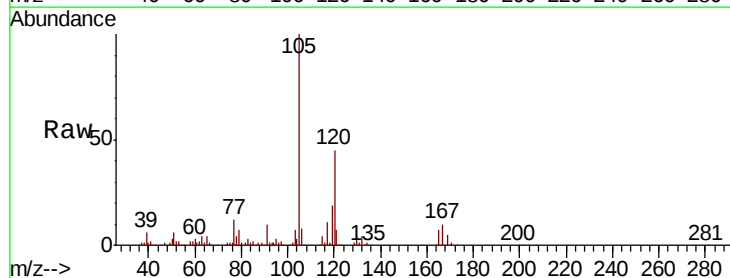
Instrument :  
MSVOA\_N  
ClientSampled :

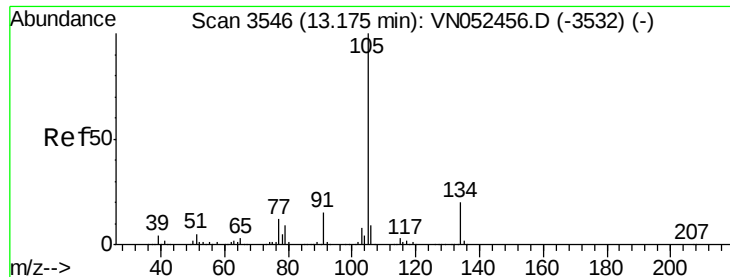
Tot Ion:119 Resp: 690662  
Ion Ratio Lower Upper  
119 100  
91 63.1 0.0 129.8  
134 26.0 0.0 52.2



#80  
1,2,4-Trimethylbenzene  
Concen: 20.574 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. -0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion:105 Resp: 779556  
Ion Ratio Lower Upper  
105 100  
120 45.8 0.0 91.0





#81

sec-Butylbenzene

Concen: 19.923 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

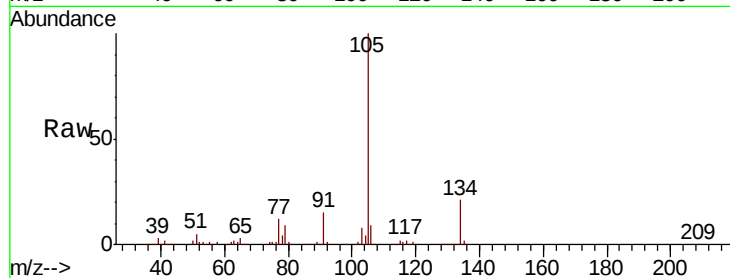
ClientSampleId :

Tot Ion:105 Resp: 915134

Ion Ratio Lower Upper

105 100

134 20.9 0.0 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

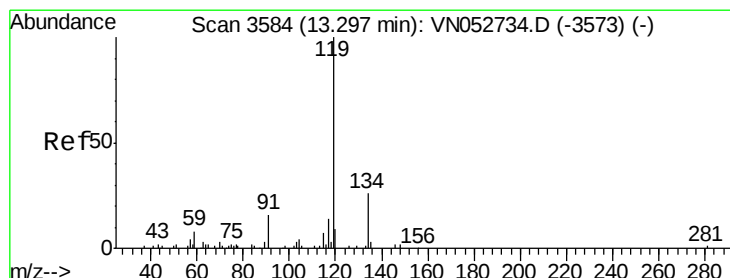
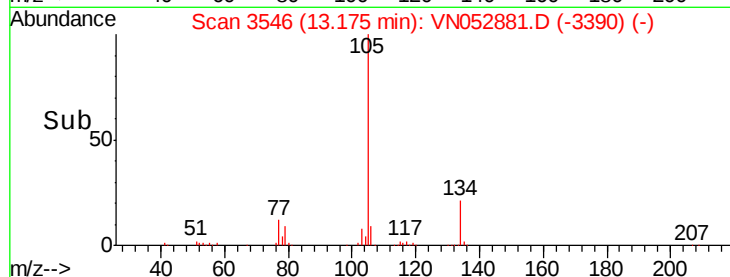
600000

400000

200000

0

Time-->



#82

p-Isopropyltoluene

Concen: 20.194 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

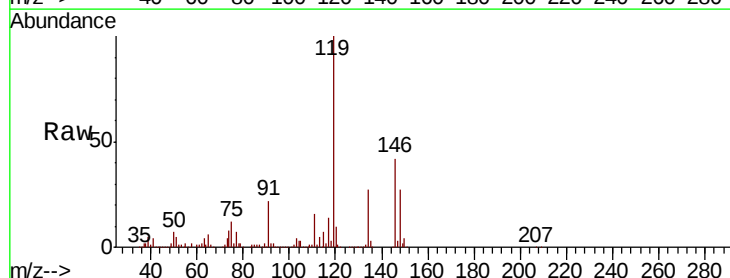
Tgt Ion:119 Resp: 789843

Ion Ratio Lower Upper

119 100

134 26.8 0.0 52.6

91 22.2 0.0 46.2



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

13.29

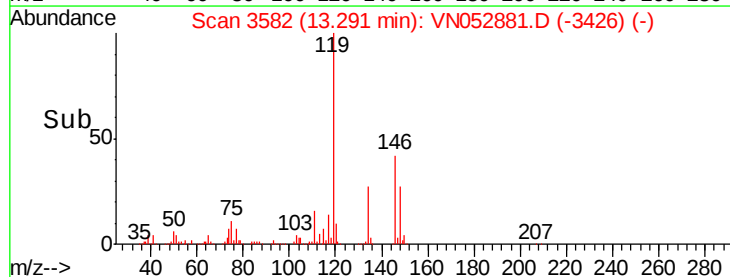
600000

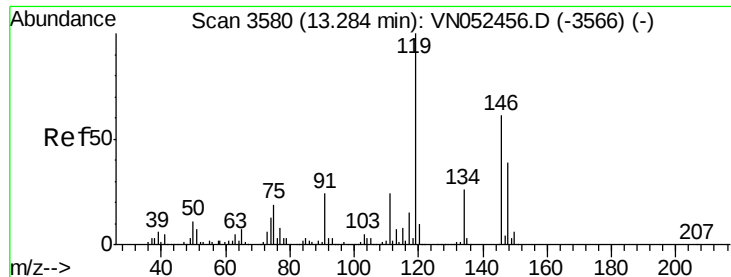
400000

200000

0

Time-->

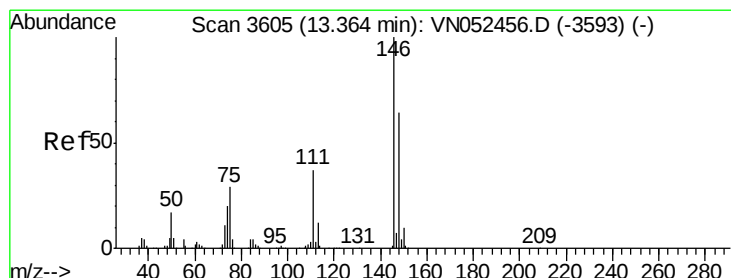
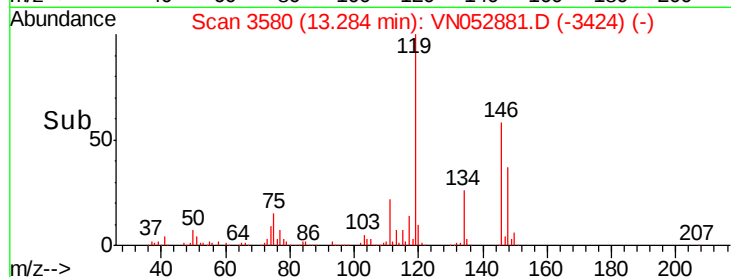
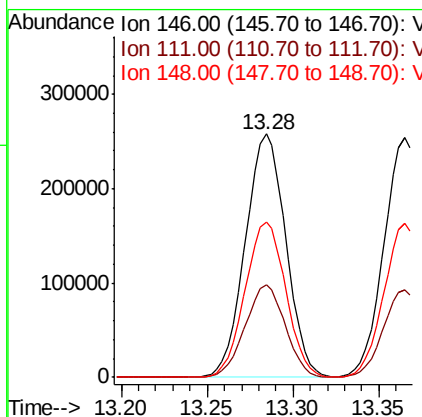
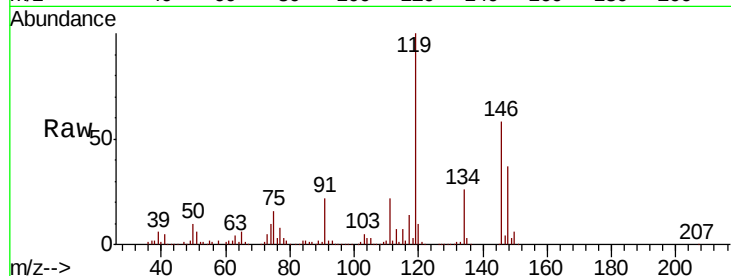




#83  
 1,3-Dichlorobenzene  
 Concen: 21.196 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

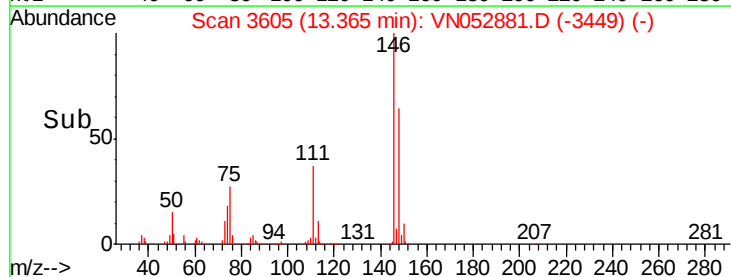
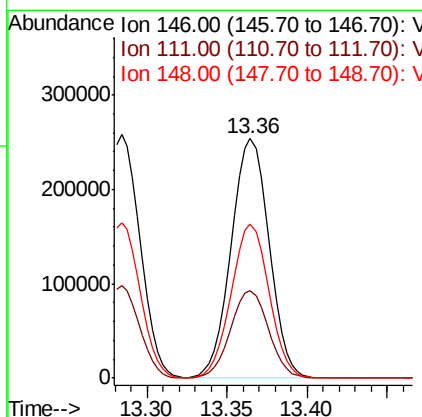
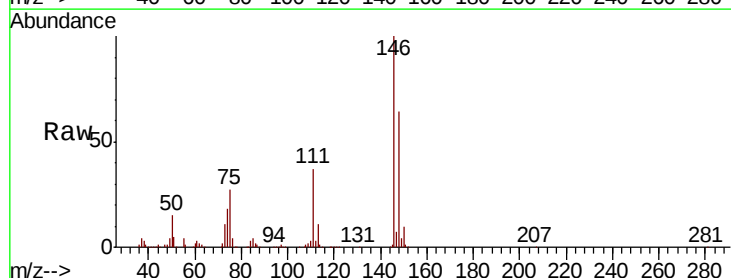
Instrument :  
 MSVOA\_N  
 ClientSampleId :

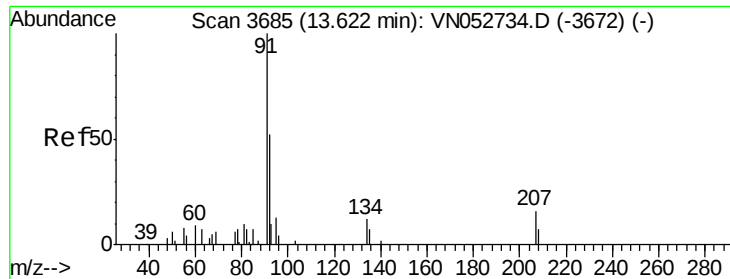
Tot Ion:146 Resp: 422696  
 Ion Ratio Lower Upper  
 146 100  
 111 37.7 19.7 59.0  
 148 64.1 32.3 96.8



#84  
 1,4-Dichlorobenzene  
 Concen: 21.334 ug/l  
 RT: 13.36 min Scan# 3605  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

Tgt Ion:146 Resp: 411050  
 Ion Ratio Lower Upper  
 146 100  
 111 36.6 18.8 56.3  
 148 64.2 32.5 97.4

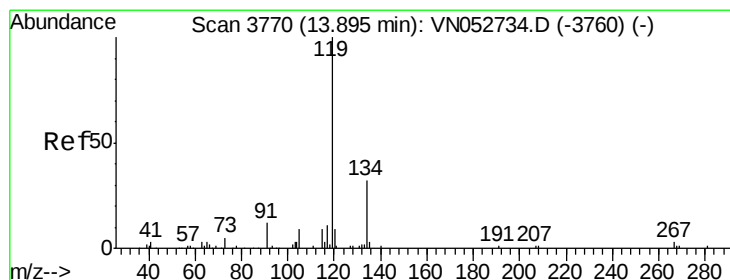
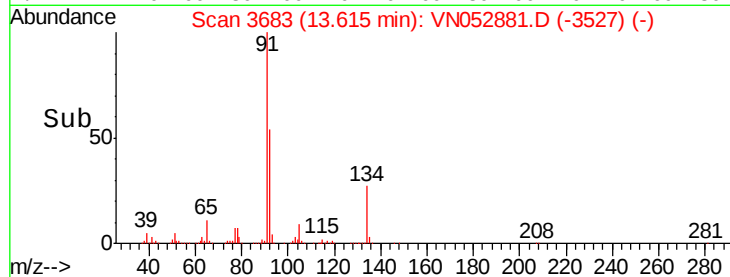
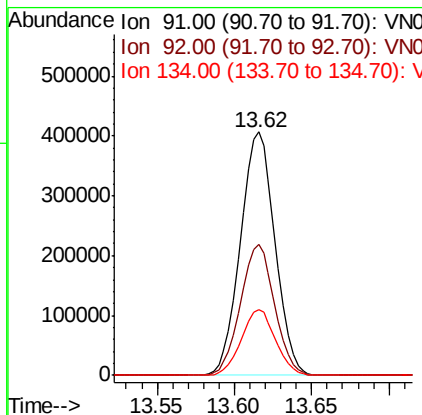
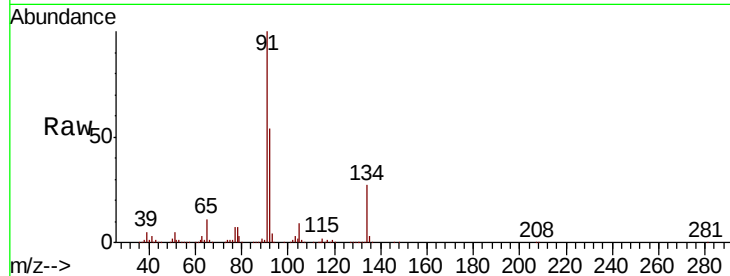




#85  
n-Butylbenzene  
Concen: 18.793 ug/l  
RT: 13.62 min Scan# 3683  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

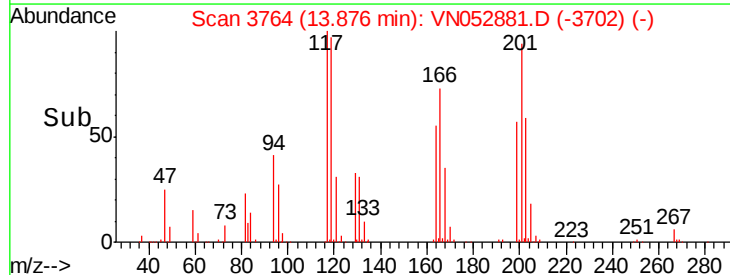
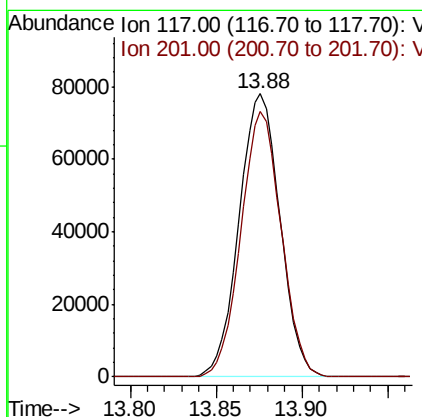
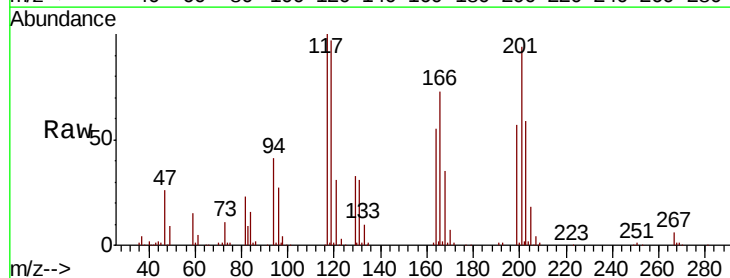
Instrument :  
MSVOA\_N  
ClientSampled :

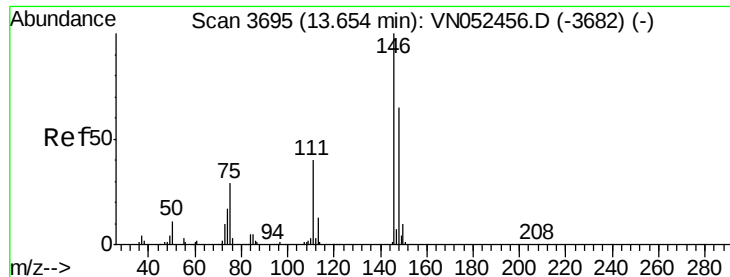
Tot Ion: 91 Resp: 631394  
Ion Ratio Lower Upper  
91 100  
92 52.9 0.0 104.2  
134 26.6 0.0 50.6



#86  
Hexachloroethane  
Concen: 19.525 ug/l  
RT: 13.88 min Scan# 3764  
Delta R.T. 0.00 min  
Lab File: VN052881.D  
Acq: 14 Dec 2018 11:42

Tgt Ion: 117 Resp: 129397  
Ion Ratio Lower Upper  
117 100  
201 91.8 43.8 131.3

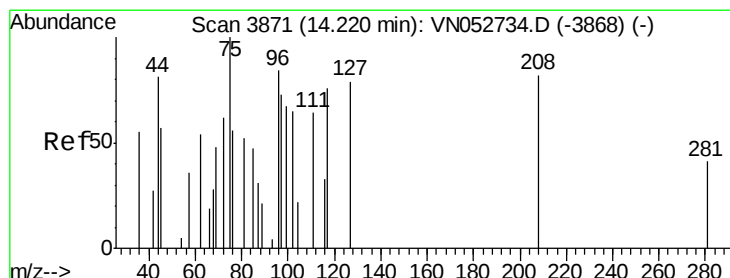
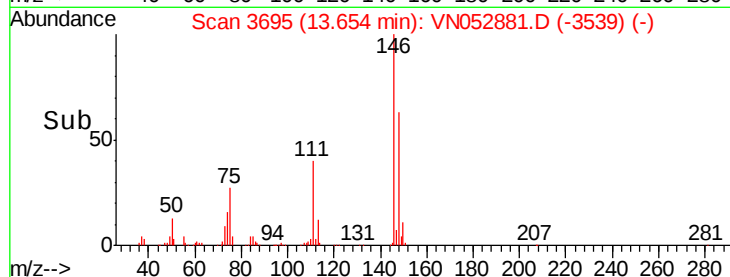
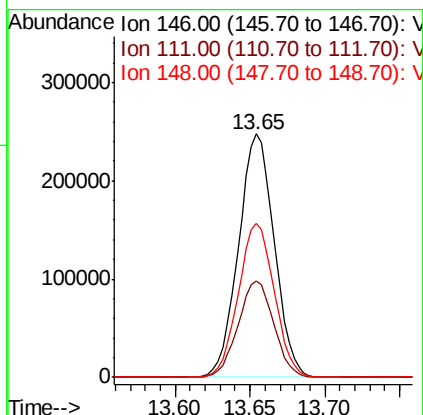
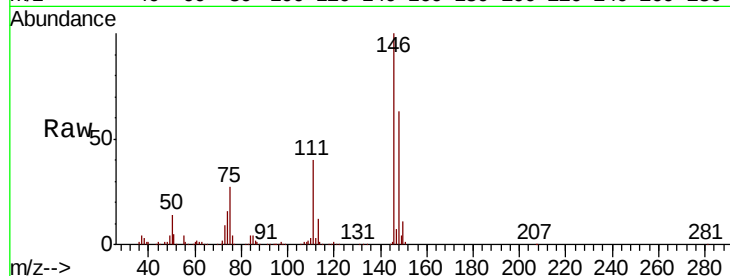




#87  
 1,2-Dichlorobenzene  
 Concen: 21.663 ug/l  
 RT: 13.65 min Scan# 3695  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

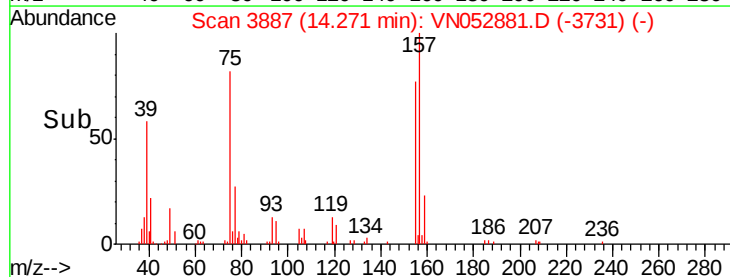
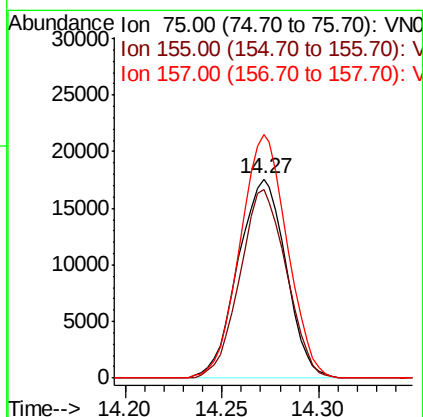
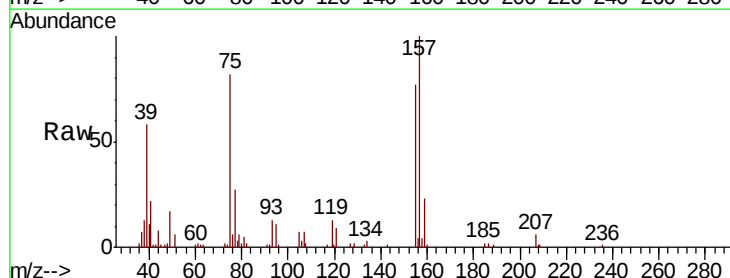
Instrument :  
 MSVOA\_N  
 ClientSampleId :

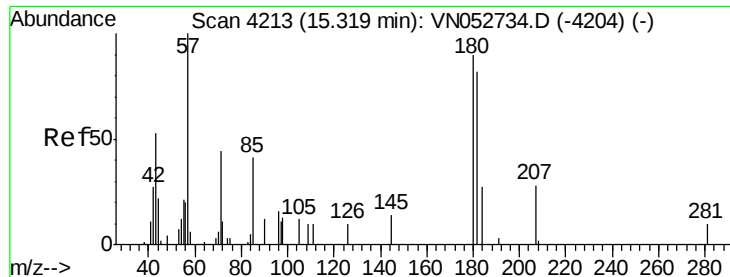
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.5  | 20.3  | 60.8  |
| 148     | 63.7  | 32.1  | 96.5  |



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 21.245 ug/l  
 RT: 14.27 min Scan# 3887  
 Delta R.T. 0.00 min  
 Lab File: VN052881.D  
 Acq: 14 Dec 2018 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 92.0  | 72.2  | 108.2 |
| 157     | 120.2 | 94.2  | 141.2 |





#89

1,2,4-Trichlorobenzene

Concen: 21.836 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampled :

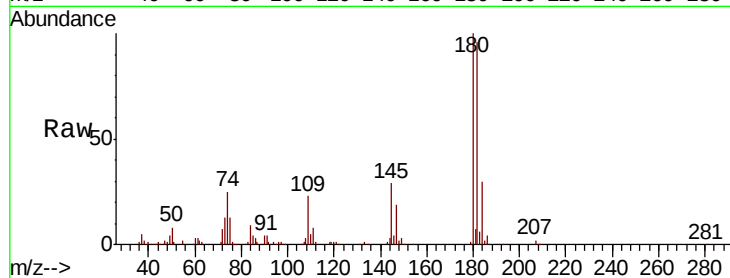
Tot Ion:180 Resp: 204161

Ion Ratio Lower Upper

180 100

182 95.1 76.6 114.8

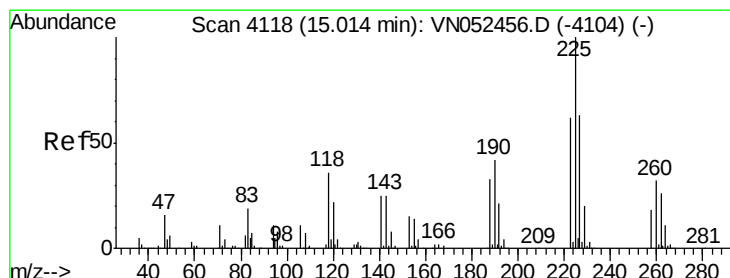
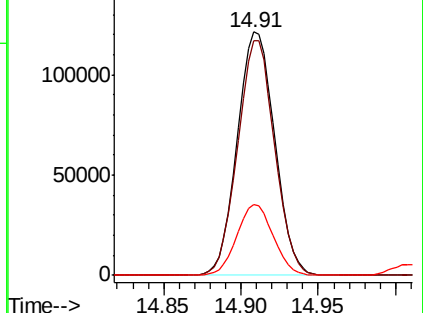
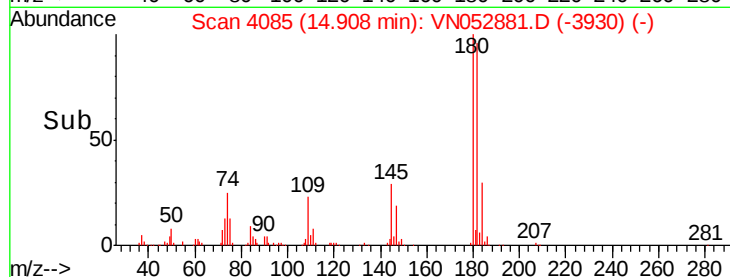
145 28.4 23.6 35.4



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



#90

Hexachlorobutadiene

Concen: 20.687 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

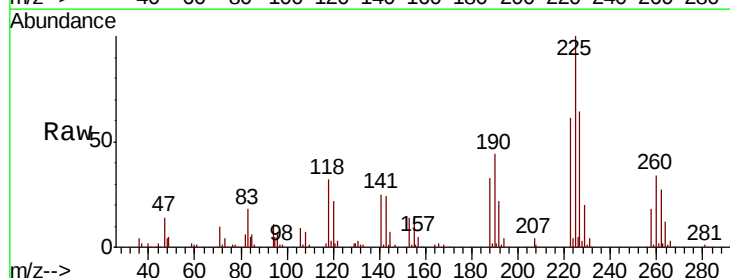
Tgt Ion:225 Resp: 126882

Ion Ratio Lower Upper

225 100

223 61.5 0.0 125.6

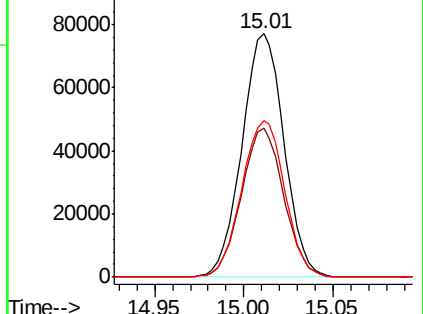
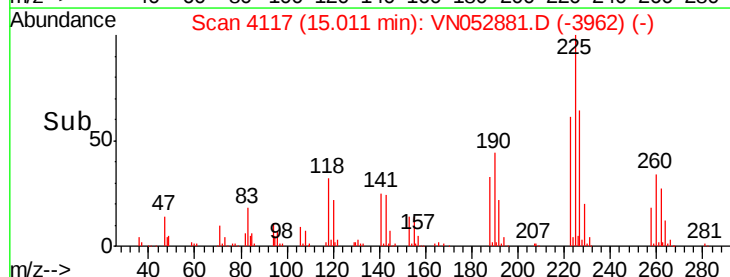
227 65.8 0.0 127.8

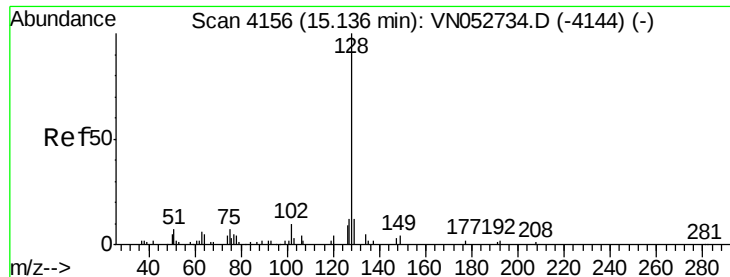


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 21.211 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA\_N

ClientSampleId :

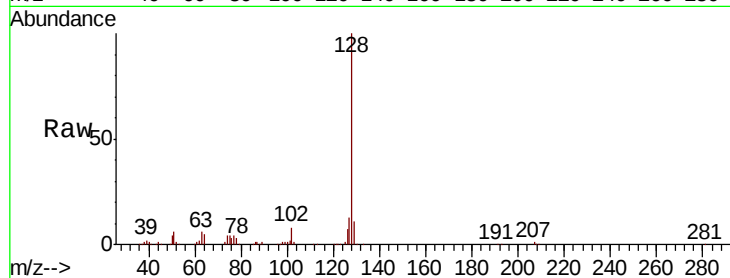
Tot Ion:128 Resp: 400469

Ion Ratio Lower Upper

128 100

127 12.9 9.9 14.9

129 11.0 8.5 12.7

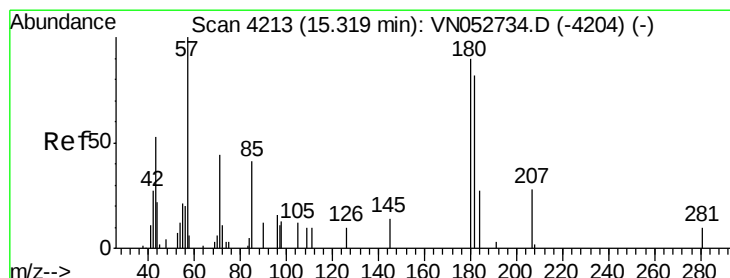
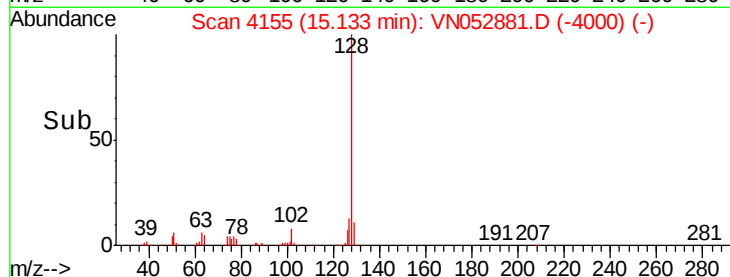
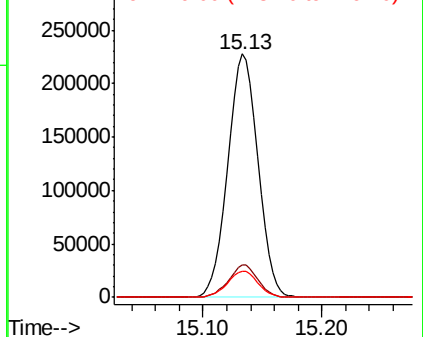


Abundance

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: 22.077 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

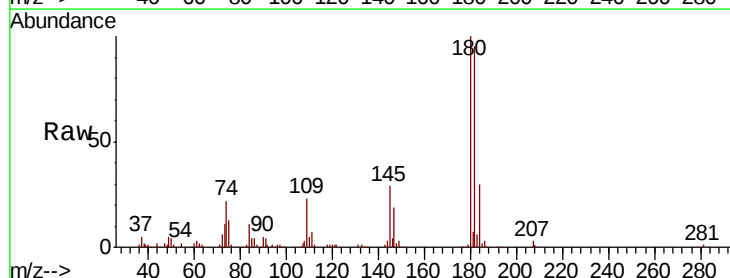
Tgt Ion:180 Resp: 190217

Ion Ratio Lower Upper

180 100

182 93.6 0.0 196.2

145 29.6 0.0 62.2



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

