

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN121918\  
 Data File : VN053033.D  
 Acq On : 20 Dec 2018 1:56  
 Operator : MD\SY  
 Sample : J6411-09  
 Misc : 6.07µ/5.0mL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 40 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 20 05:29:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 18 13:03:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1350365  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 2050456  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1904078  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 834661   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 640185   | 46.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.44%  |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 520837   | 55.61 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 111.22% |      |
| 50) Toluene-d8            | 10.09  | 98  | 2570489  | 51.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.24% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 1057088  | 59.88 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 119.76% |      |

## Target Compounds

|                                |       |     |         |         |        | Qvalue |
|--------------------------------|-------|-----|---------|---------|--------|--------|
| 13) Acrolein                   | 3.61  | 56  | 274     | 0.361   | ug/l # | 14     |
| 16) Acetone                    | 3.82  | 43  | 2834    | 1.055   | ug/l # | 81     |
| 18) Methyl Acetate             | 4.33  | 43  | 4828    | 1.380   | ug/l # | 75     |
| 36) 1,1-Dichloropropene        | 7.67  | 75  | 86046   | 4.372   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.67  | 117 | 114452  | 6.345   | ug/l # | 16     |
| 39) Methylcyclohexane          | 9.08  | 83  | 72570   | 3.035   | ug/l   | 97     |
| 43) Isopropyl Acetate          | 8.32  | 43  | 136931  | 5.511   | ug/l # | 53     |
| 48) Methyl methacrylate        | 9.14  | 41  | 4744    | 0.445   | ug/l # | 36     |
| 51) 4-Methyl-2-Pentanone       | 10.09 | 43  | 26203   | 2.463   | ug/l # | 44     |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97  | 117271  | 9.264   | ug/l # | 20     |
| 56) Ethyl methacrylate         | 10.43 | 69  | 50203   | 2.996   | ug/l # | 19     |
| 59) 2-Hexanone                 | 10.72 | 43  | 812048  | 112.804 | ug/l # | 28     |
| 65) Chlorobenzene              | 11.54 | 112 | 36024   | 0.853   | ug/l # | 43     |
| 67) Ethyl Benzene              | 11.51 | 91  | 280546  | 3.865   | ug/l   | 99     |
| 68) m/p-Xylenes                | 11.62 | 106 | 826141  | 29.939  | ug/l   | 99     |
| 69) o-Xylene                   | 11.95 | 106 | 36989   | 1.397   | ug/l   | 51     |
| 71) Bromoform                  | 12.40 | 173 | 5115    | 0.482   | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.25 | 105 | 1593840 | 24.406  | ug/l   | 99     |
| 74) N-amyl acetate             | 12.05 | 43  | 3458828 | 190.769 | ug/l # | 60     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83  | 237862  | 18.566  | ug/l # | 25     |
| 76) 1,2,3-Trichloropropane     | 12.59 | 75  | 25659   | 1.826   | ug/l # | 100    |
| 77) Bromobenzene               | 12.51 | 156 | 4469    | 0.263   | ug/l # | 1      |
| 78) n-propylbenzene            | 12.59 | 91  | 4446830 | 59.788  | ug/l   | 99     |
| 79) 2-Chlorotoluene            | 12.69 | 91  | 466675  | 10.123  | ug/l # | 40     |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105 | 5890651 | 110.666 | ug/l   | 97     |
| 81) trans-1,4-Dichloro-2-buten | 12.25 | 75  | 16682   | 3.827   | ug/l # | 1      |
| 82) 4-Chlorotoluene            | 12.73 | 91  | 599303  | 13.280  | ug/l # | 55     |
| 83) tert-Butylbenzene          | 12.99 | 119 | 286211  | 6.080   | ug/l   | 92     |
| 84) 1,2,4-Trimethylbenzene     | 13.17 | 105 | 2347725 | 43.874  | ug/l # | 30     |
| 85) sec-Butylbenzene           | 13.17 | 105 | 2347725 | 36.870  | ug/l # | 74     |
| 86) p-Isopropyltoluene         | 13.29 | 119 | 2194006 | 39.876  | ug/l   | 100    |
| 89) n-Butylbenzene             | 13.62 | 91  | 3127383 | 66.069  | ug/l # | 70     |
| 90) Hexachloroethane           | 13.89 | 117 | 310080  | 36.725  | ug/l # | 4      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75  | 14948   | 6.748   | ug/l # | 1      |

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ALS Vial : 40 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Dec 20 05:29:46 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 18 13:03:37 2018  
Response via : Initial Calibration

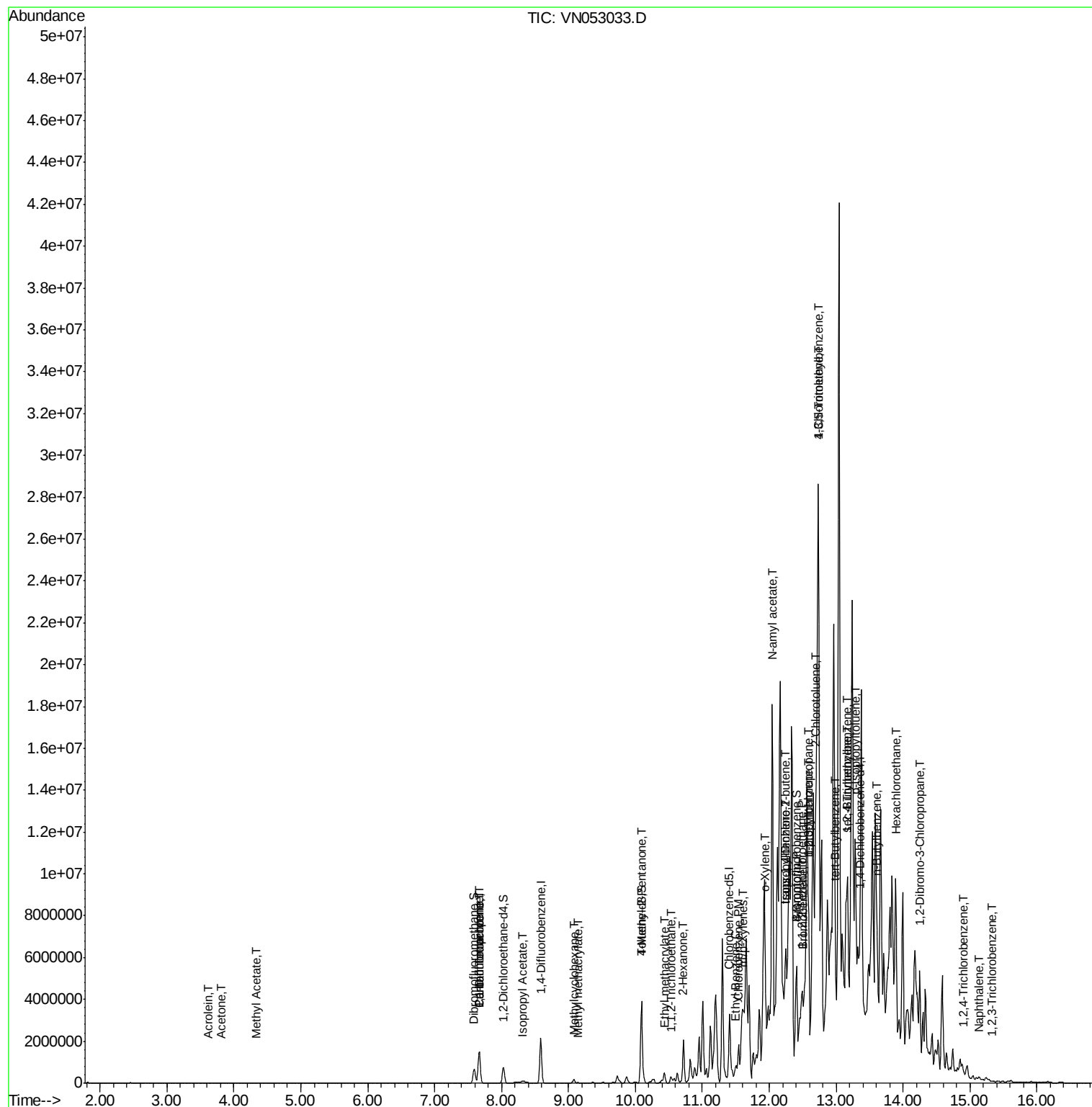
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 1591     | 0.701 | ug/l # | 1        |
| 95) Naphthalene            | 15.13 | 128  | 121865   | 4.775 | ug/l   | 95       |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 775      | 0.565 | ug/l # | 1        |

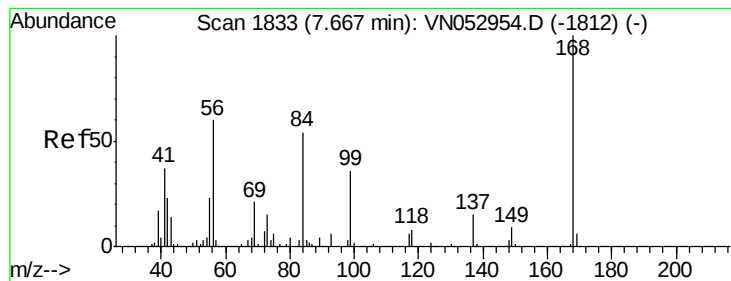
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

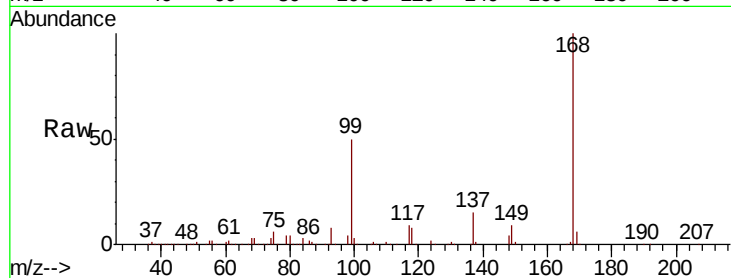
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:168 Resp: 1350365

Ion Ratio Lower Upper

168 100

99 49.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

600000

500000

400000

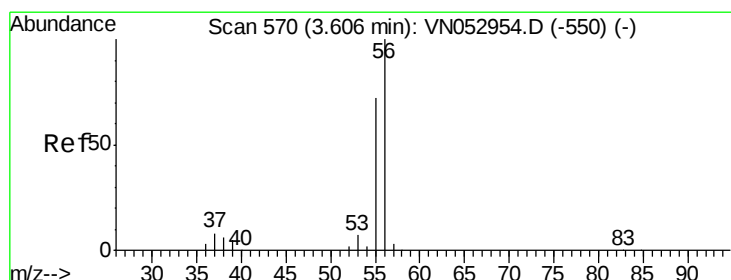
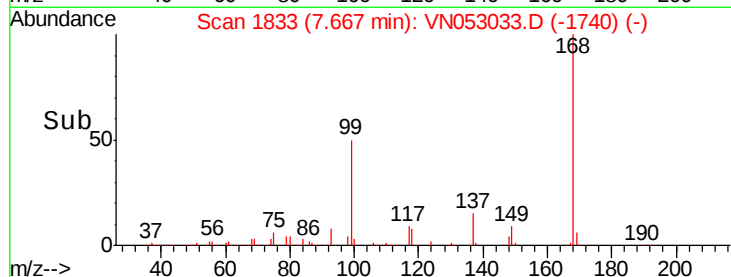
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.361 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN053033.D

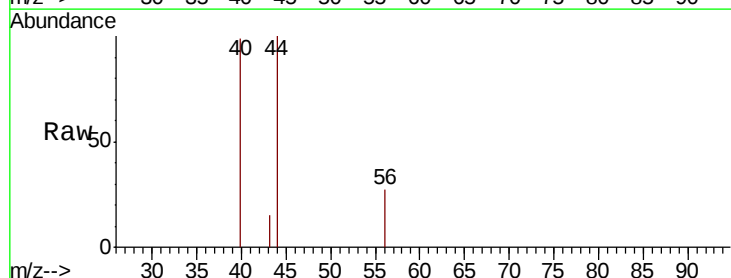
Acq: 20 Dec 2018 1:56

Tgt Ion: 56 Resp: 274

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.61

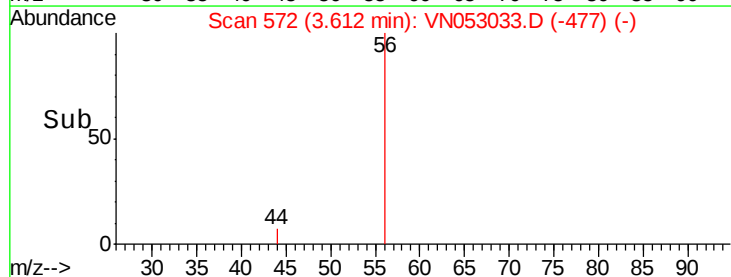
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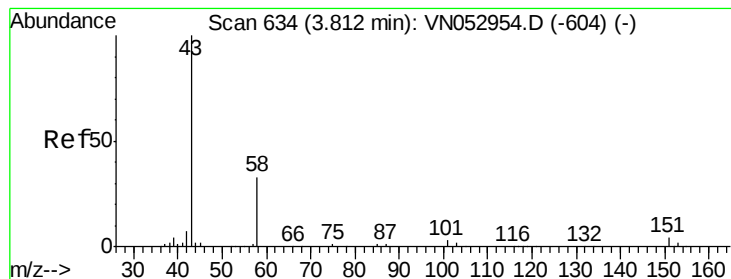
200

100

0

Time-->





#16

Acetone

Concen: 1.055 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

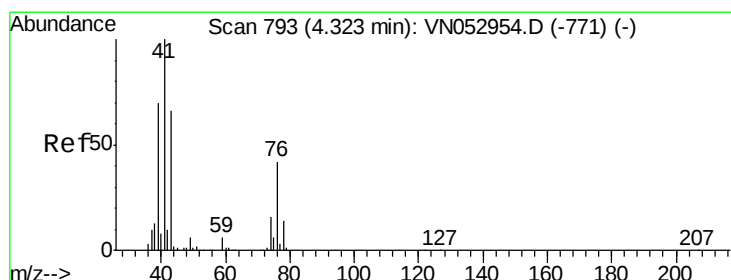
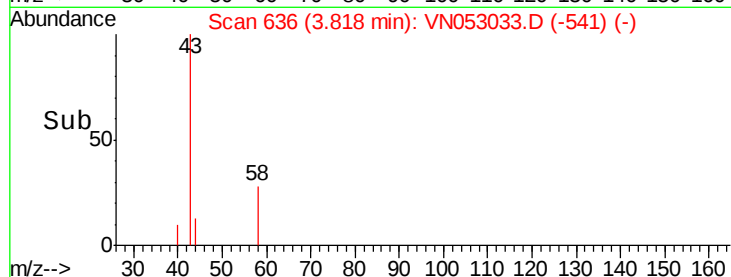
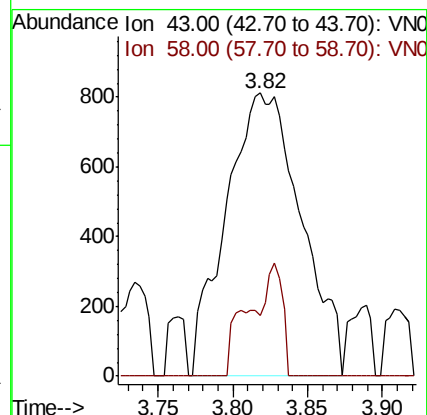
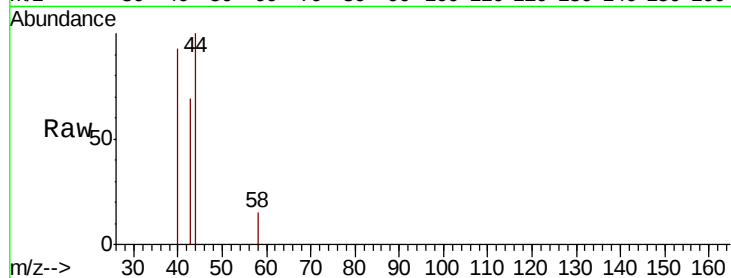
ClientSampleId :

Tot Ion: 43 Resp: 2834

Ion Ratio Lower Upper

43 100

58 21.3 25.4 38.0#



#18

Methyl Acetate

Concen: 1.380 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN053033.D

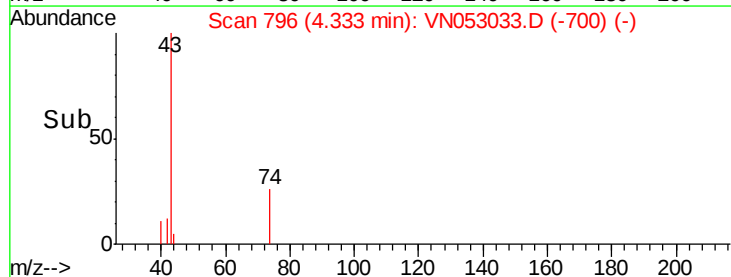
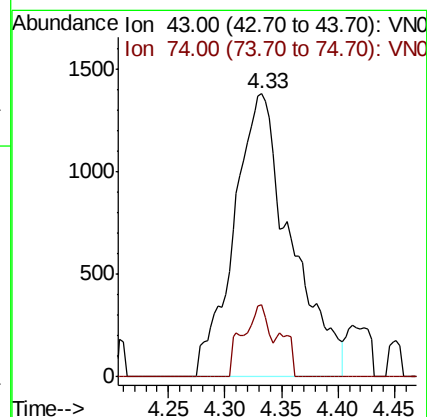
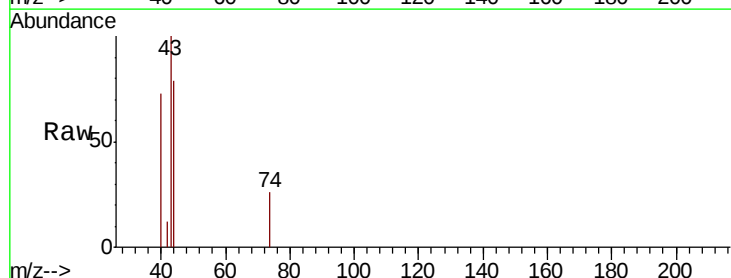
Acq: 20 Dec 2018 1:56

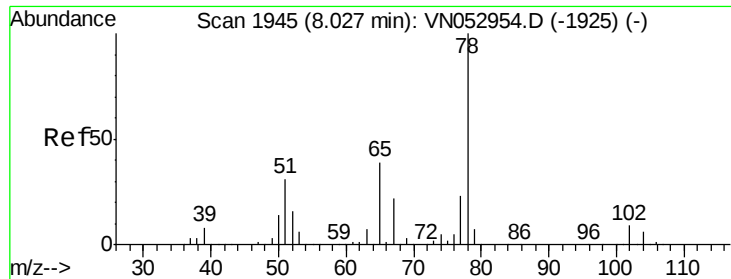
Tgt Ion: 43 Resp: 4828

Ion Ratio Lower Upper

43 100

74 11.8 19.2 28.8#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

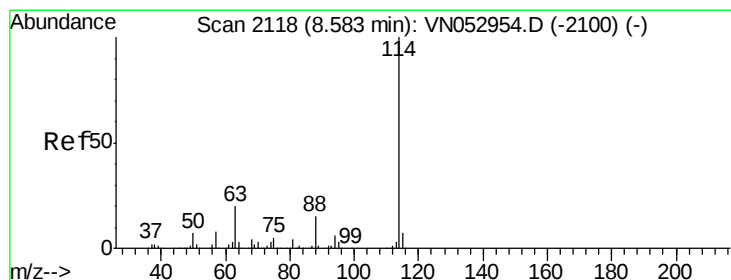
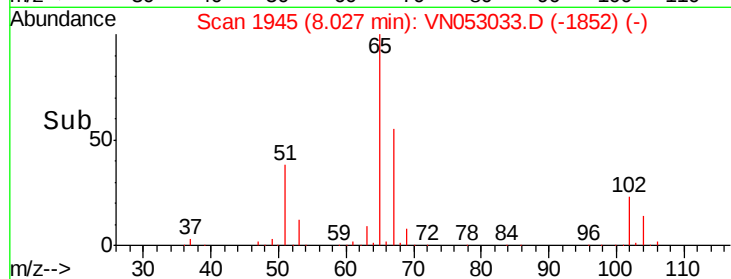
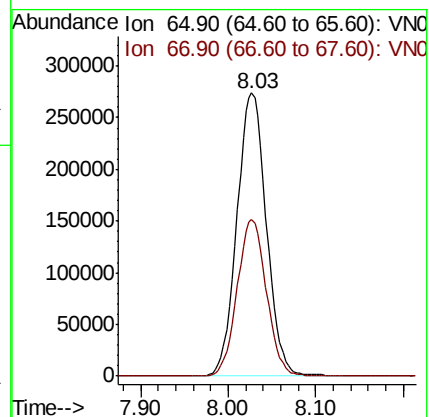
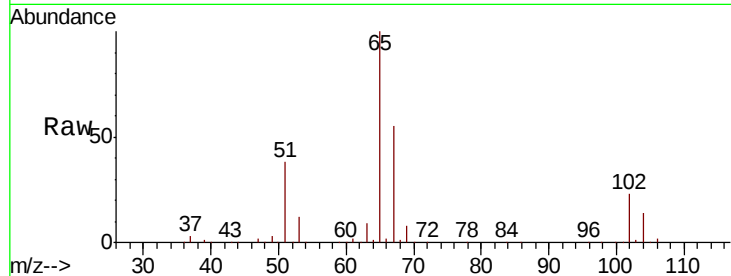
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 65 Resp: 640185

Ion Ratio Lower Upper

65 100

67 54.8 0.0 110.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

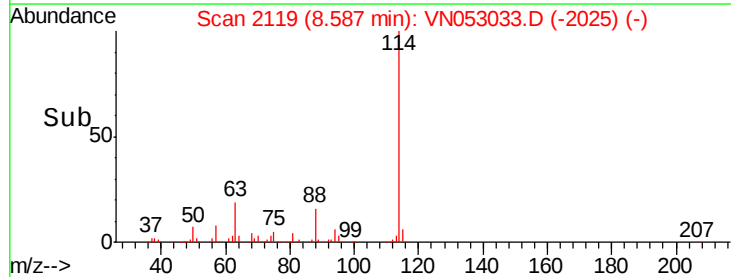
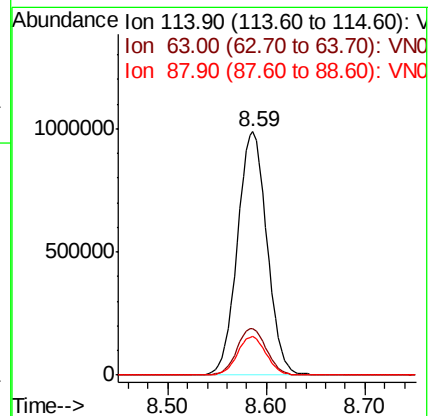
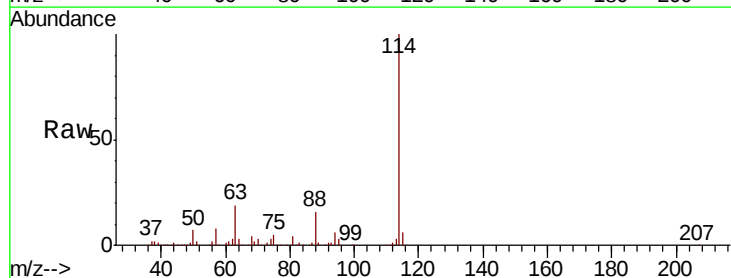
Tgt Ion: 114 Resp: 2050456

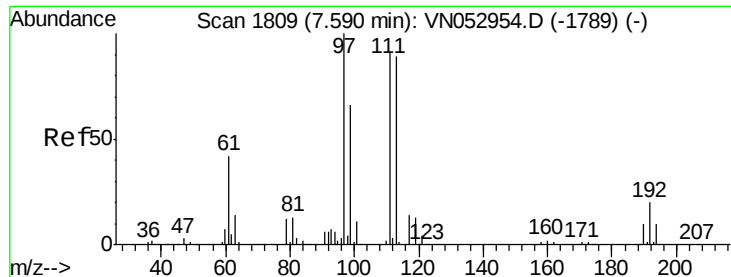
Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.8

88 15.7 0.0 31.0

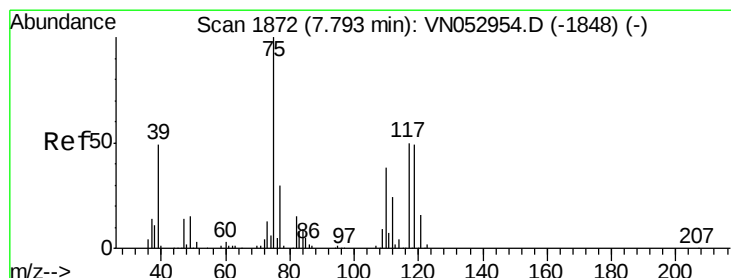
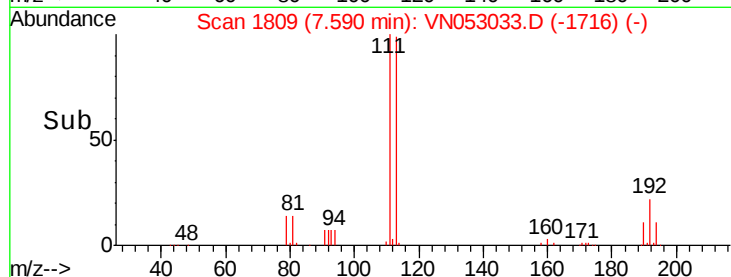
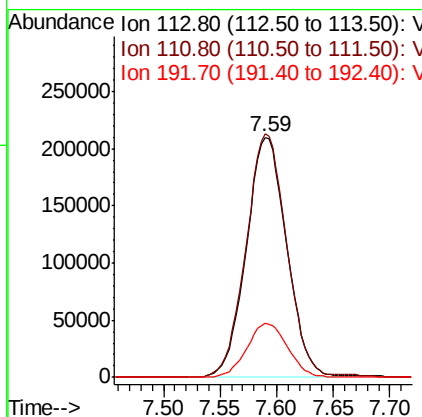
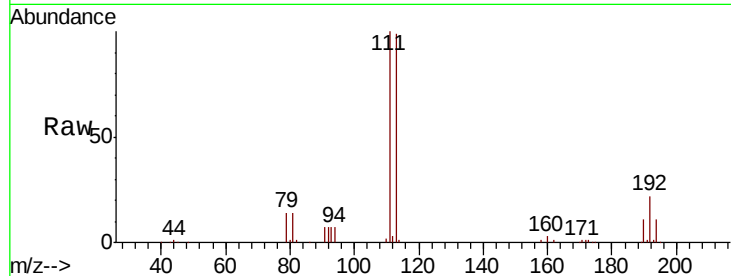




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

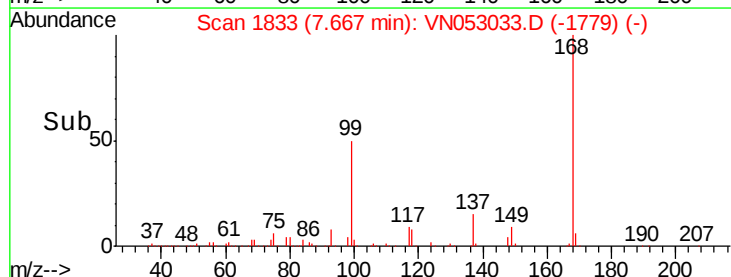
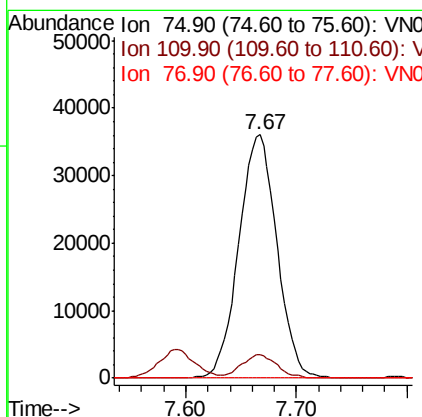
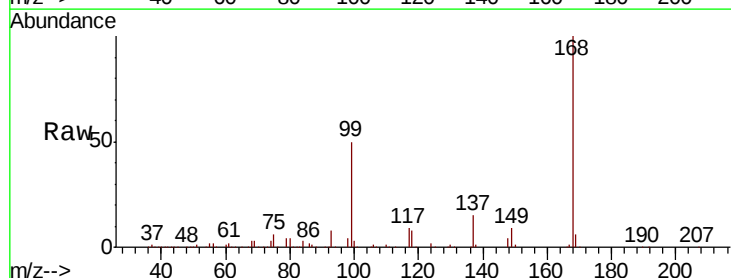
Instrument :  
 MSVOA\_N  
 ClientSampleId :

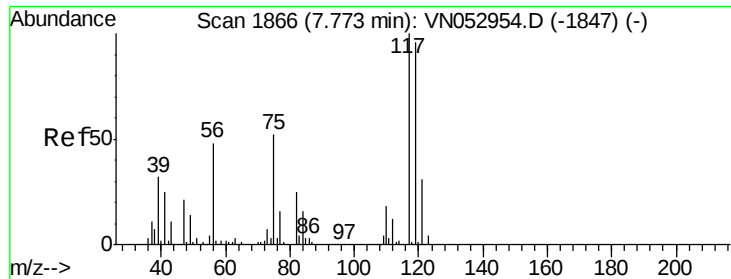
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 83.0  | 124.4 |
| 192     | 22.7  | 17.5  | 26.3  |



#36  
 1,1-Dichloropropene  
 Concen: 4.372 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.13 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.9   | 18.2  | 54.6# |
| 77      | 0.0   | 24.9  | 37.3# |

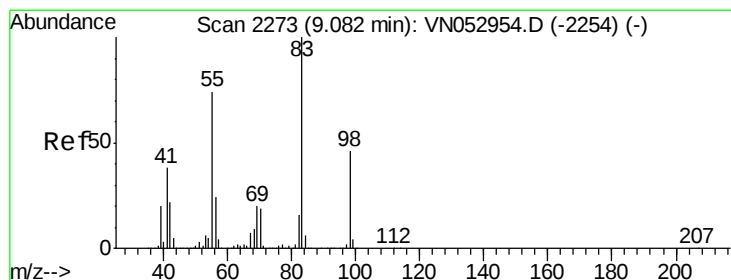
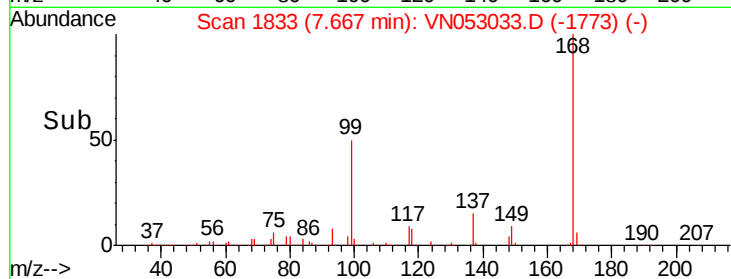
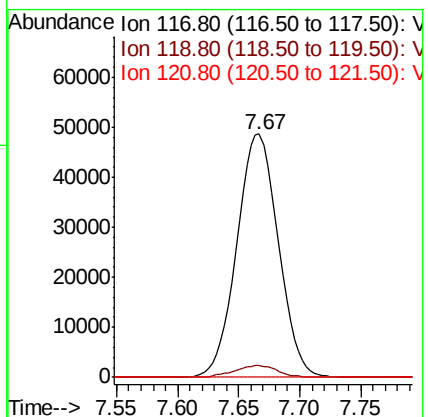
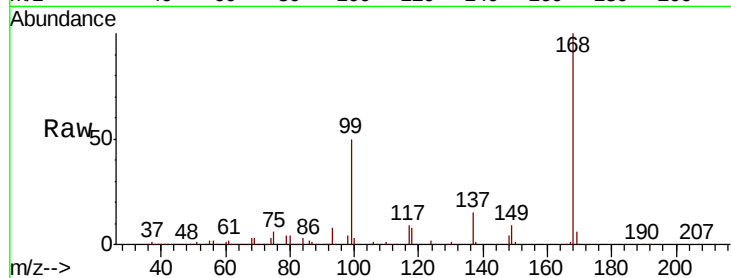




#38  
Carbon Tetrachloride  
Concen: 6.345 ug/l  
RT: 7.67 min Scan# 1833  
Delta R.T. -0.11 min  
Lab File: VN053033.D  
Acq: 20 Dec 2018 1:56

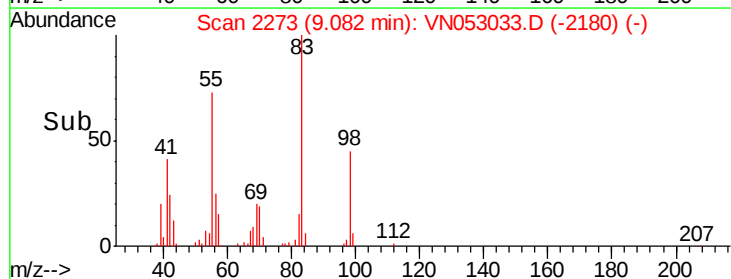
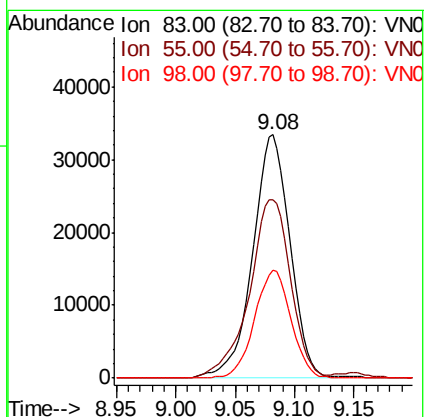
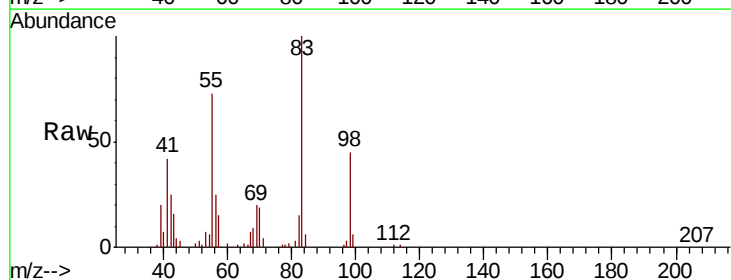
Instrument :  
MSVOA\_N  
ClientSampleId :

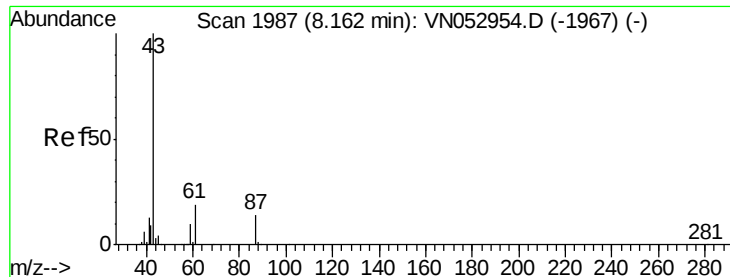
Tot Ion:117 Resp: 114452  
Ion Ratio Lower Upper  
117 100  
119 4.8 77.1 115.7#  
121 0.0 24.9 37.3#



#39  
Methylcyclohexane  
Concen: 3.035 ug/l  
RT: 9.08 min Scan# 2273  
Delta R.T. -0.00 min  
Lab File: VN053033.D  
Acq: 20 Dec 2018 1:56

Tgt Ion: 83 Resp: 72570  
Ion Ratio Lower Upper  
83 100  
55 73.4 61.3 91.9  
98 44.6 37.0 55.4





#43

Isopropyl Acetate

Concen: 5.511 ug/l

RT: 8.32 min Scan# 2035

Delta R.T. 0.15 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

ClientSampled :

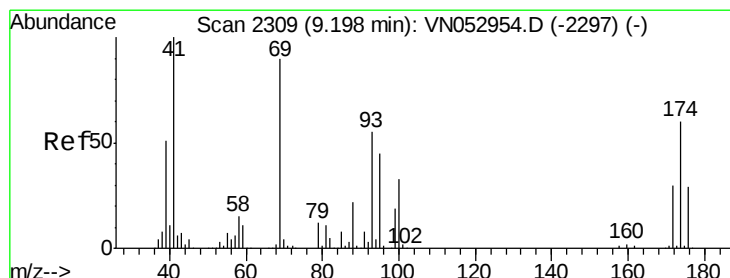
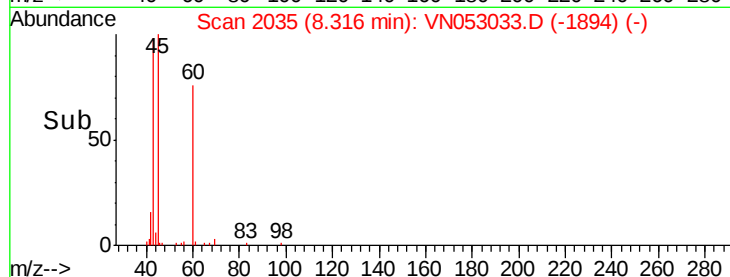
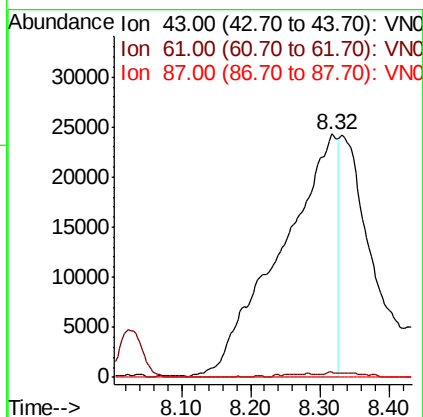
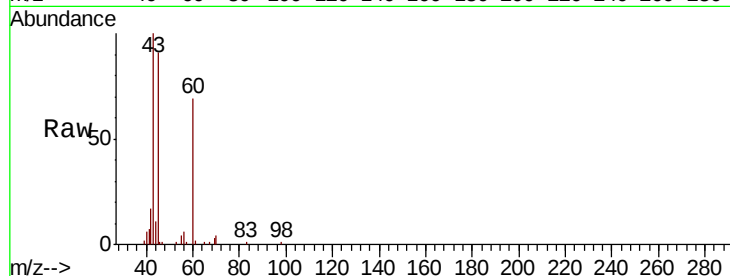
Tot Ion: 43 Resp: 136931

Ion Ratio Lower Upper

43 100

61 0.0 22.9 34.3#

87 0.0 10.6 15.8#



#48

Methyl methacrylate

Concen: 0.445 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.05 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

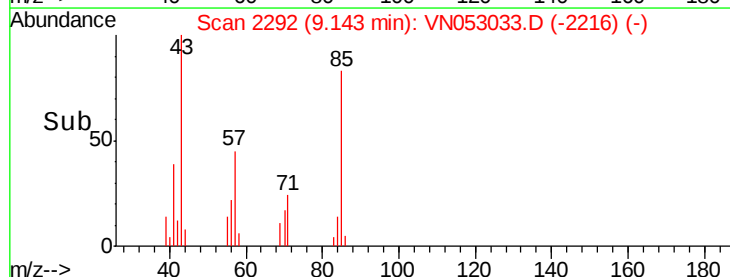
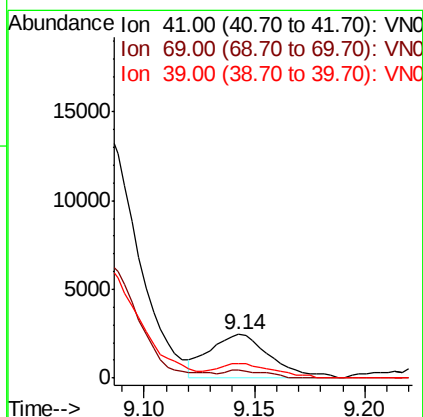
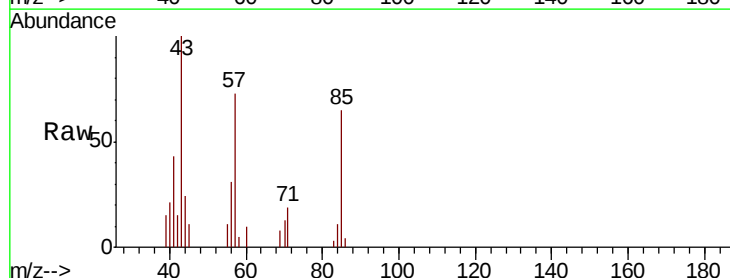
Tgt Ion: 41 Resp: 4744

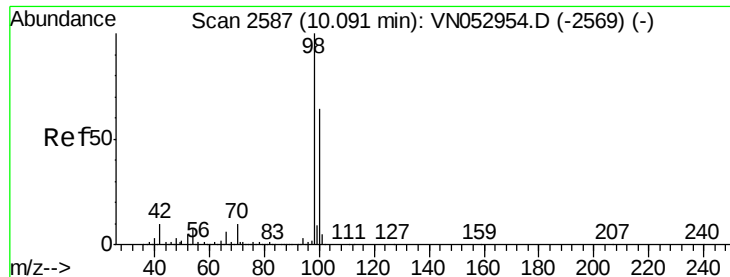
Ion Ratio Lower Upper

41 100

69 12.2 72.2 108.2#

39 30.8 41.9 62.9#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

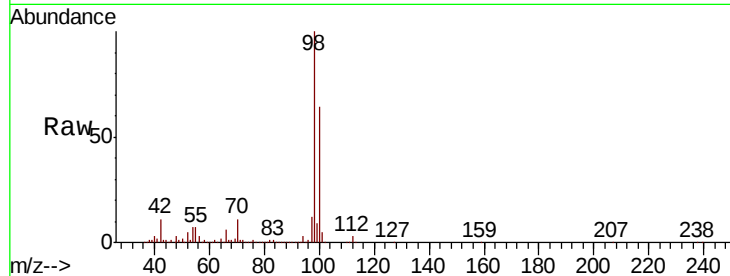
ClientSampleId :

Tot Ion: 98 Resp: 2570489

Ion Ratio Lower Upper

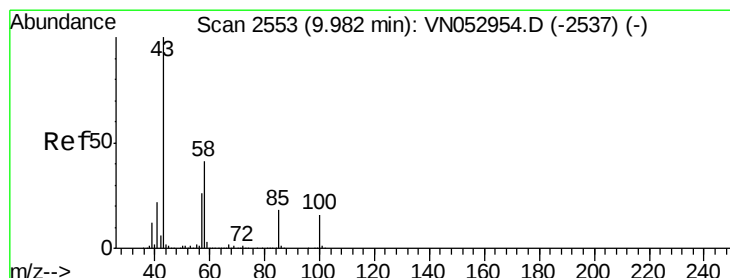
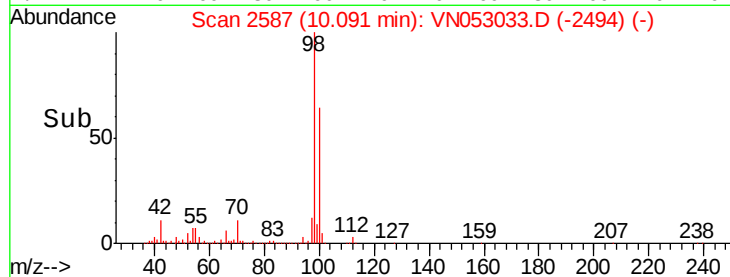
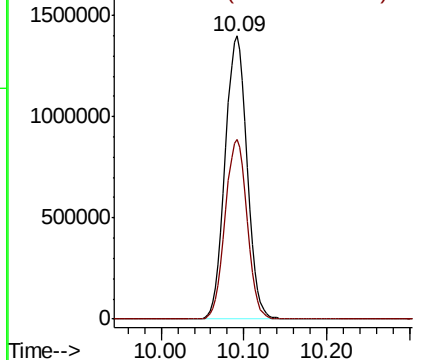
98 100

100 63.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 2.463 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.11 min

Lab File: VN053033.D

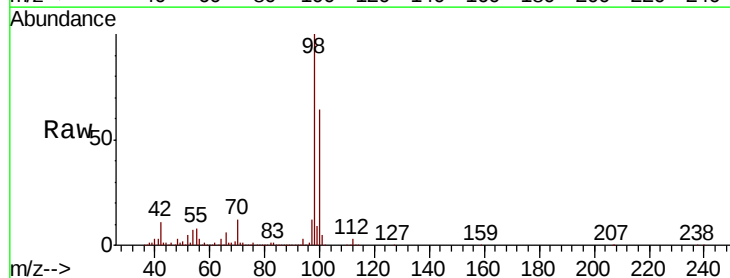
Acq: 20 Dec 2018 1:56

Tgt Ion: 43 Resp: 26203

Ion Ratio Lower Upper

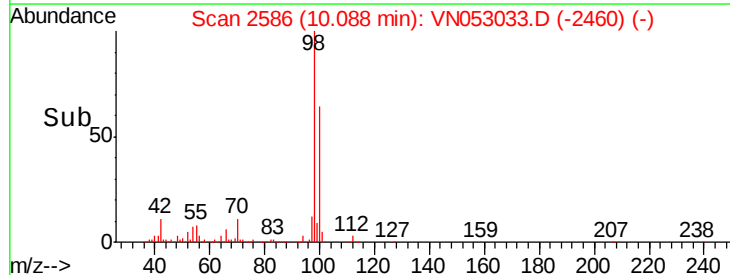
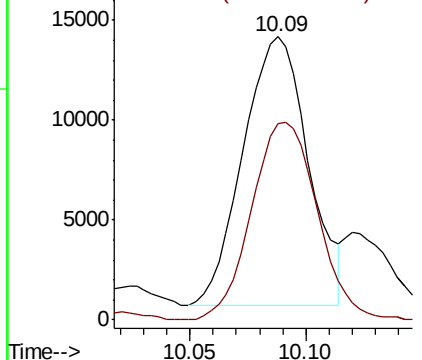
43 100

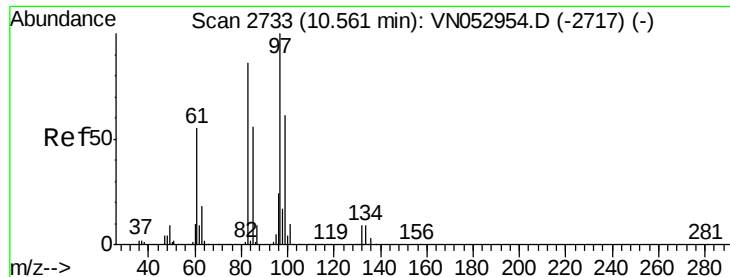
58 74.7 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

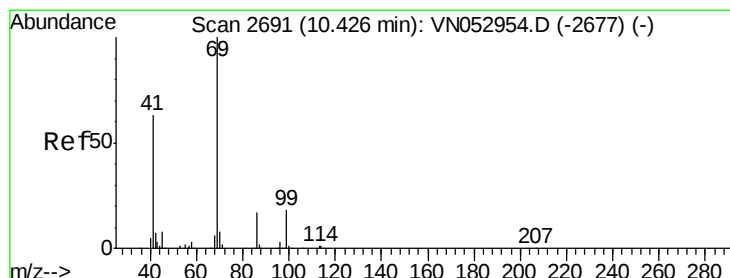
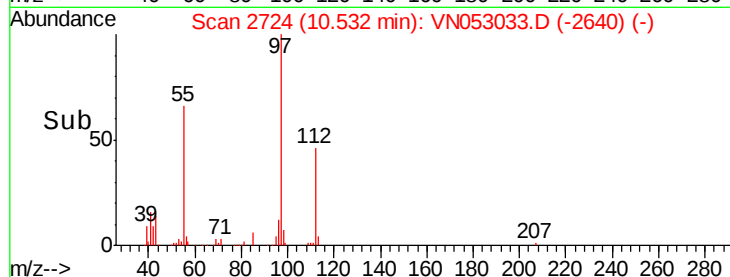
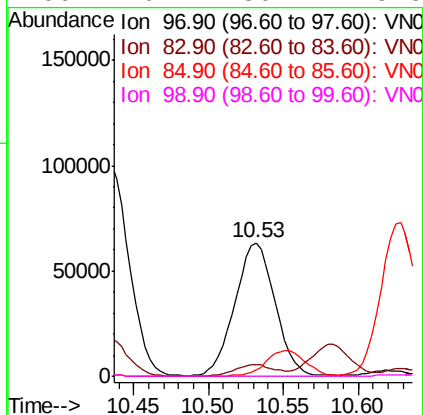
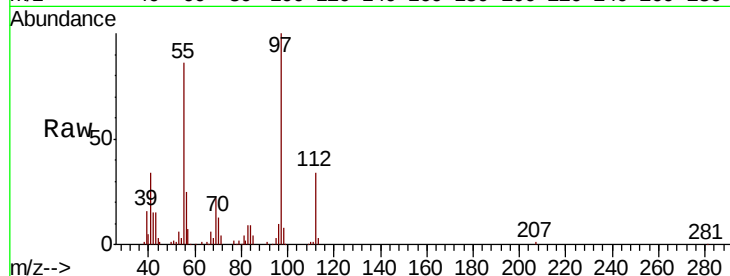




#55  
 1,1,2-Trichloroethane  
 Concen: 9.264 ug/l  
 RT: 10.53 min Scan# 2724  
 Delta R.T. -0.03 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

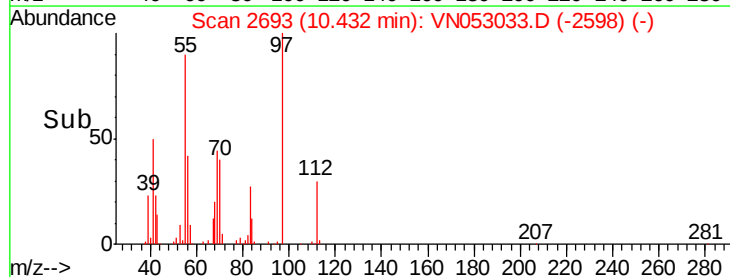
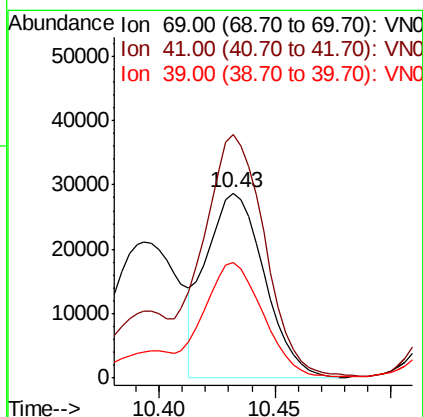
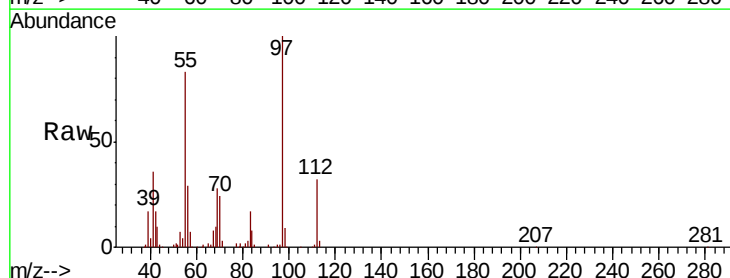
Instrument :  
 MSVOA\_N  
 ClientSampleId :

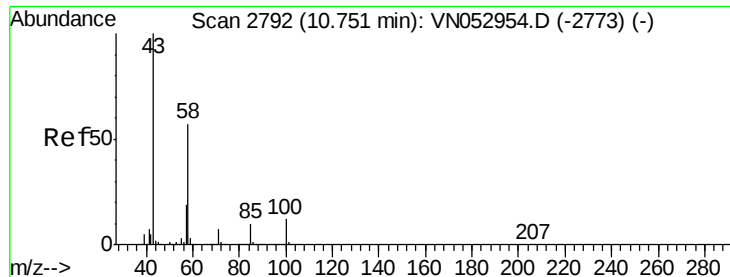
Tot Ion: 97 Resp: 117271  
 Ion Ratio Lower Upper  
 97 100  
 83 8.8 70.9 106.3#  
 85 4.4 45.4 68.2#  
 99 0.4 50.4 75.6#



#56  
 Ethyl methacrylate  
 Concen: 2.996 ug/l  
 RT: 10.43 min Scan# 2693  
 Delta R.T. 0.01 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

Tgt Ion: 69 Resp: 50203  
 Ion Ratio Lower Upper  
 69 100  
 41 137.0 51.7 77.5#  
 39 62.7 24.6 37.0#

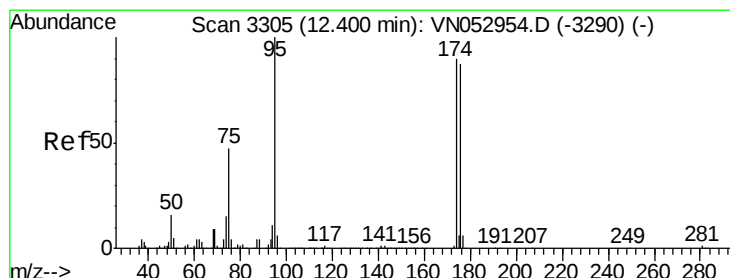
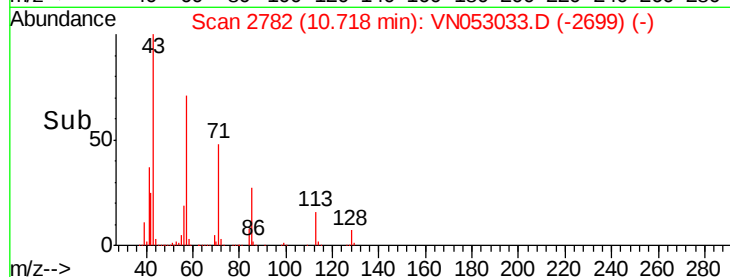
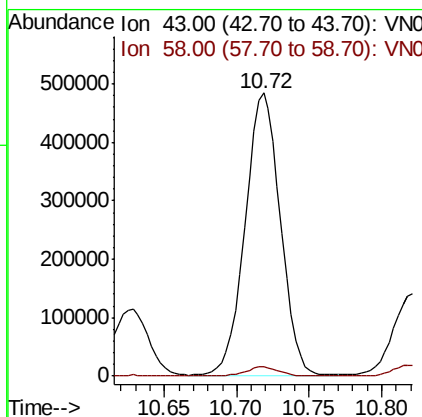
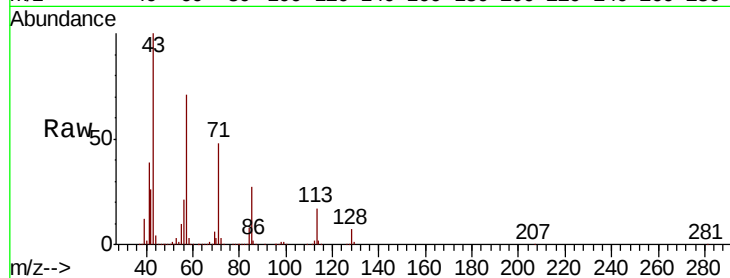




#59  
2-Hexanone  
Concen: 112.804 ug/l  
RT: 10.72 min Scan# 2782  
Delta R.T. -0.03 min  
Lab File: VN053033.D  
Acq: 20 Dec 2018 1:56

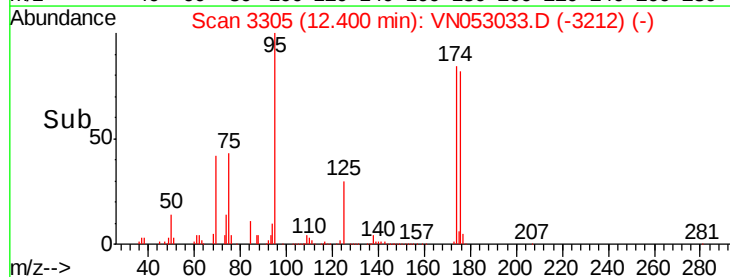
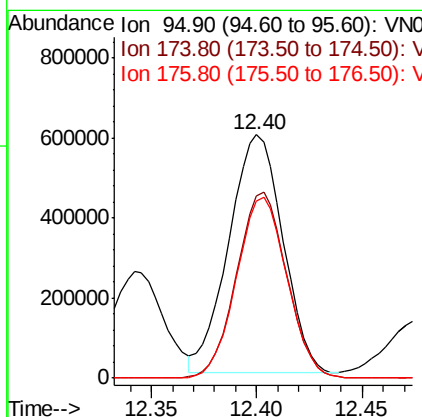
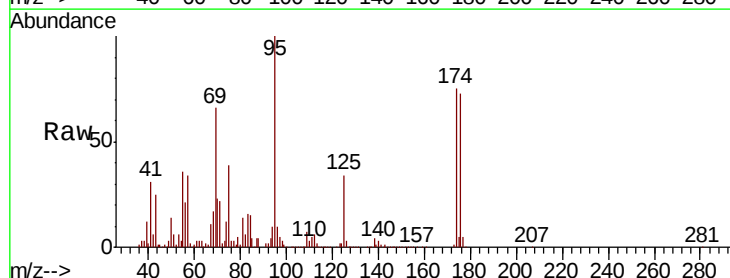
Instrument :  
MSVOA\_N  
ClientSampled :

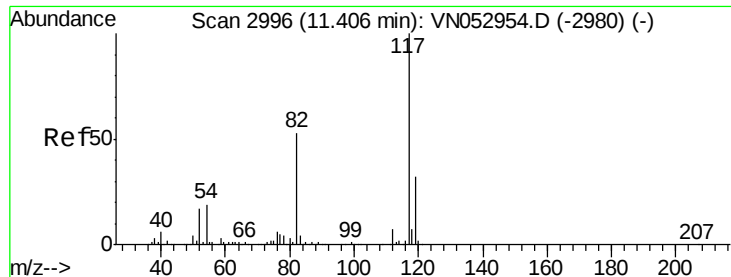
Tot Ion: 43 Resp: 812048  
Ion Ratio Lower Upper  
43 100  
58 3.2 28.1 84.3#



#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN053033.D  
Acq: 20 Dec 2018 1:56

Tgt Ion: 95 Resp: 1057088  
Ion Ratio Lower Upper  
95 100  
174 72.9 0.0 178.8  
176 71.2 0.0 173.8

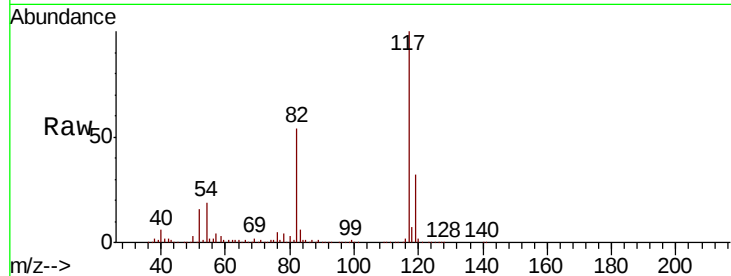




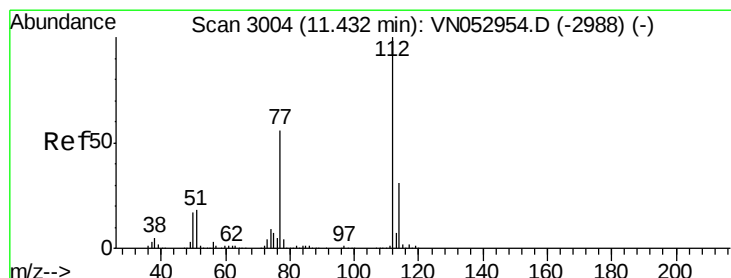
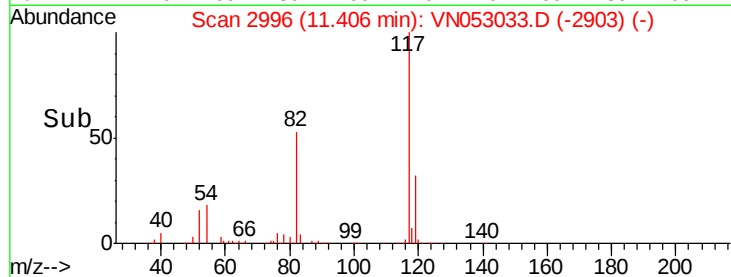
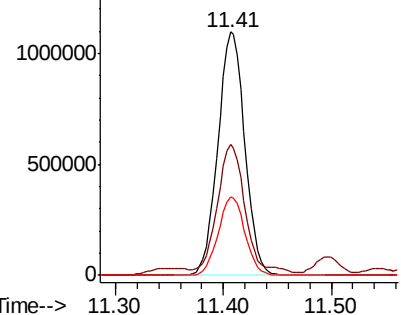
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN053033.D  
Acq: 20 Dec 2018 1:56

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:117 Resp: 1904078  
Ion Ratio Lower Upper  
117 100  
82 50.9 42.8 64.2  
119 32.1 25.5 38.3

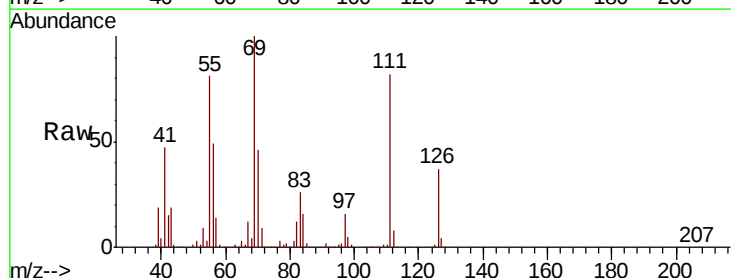


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

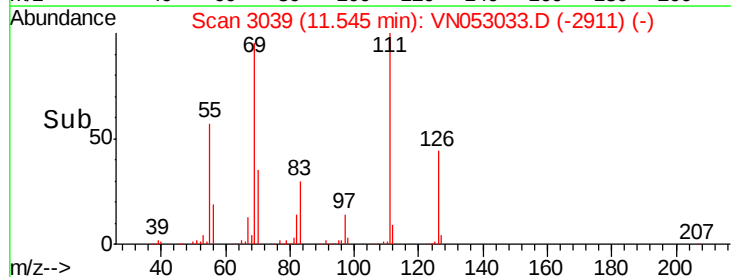
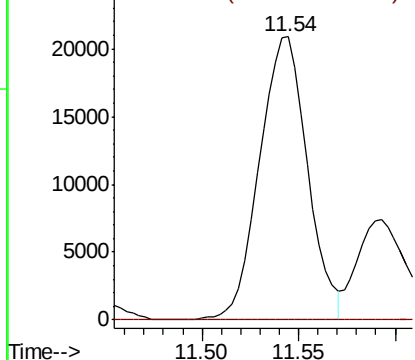


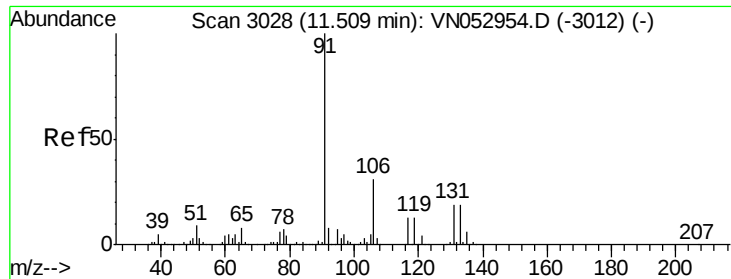
#65  
Chlorobenzene  
Concen: 0.853 ug/l  
RT: 11.54 min Scan# 3039  
Delta R.T. 0.11 min  
Lab File: VN053033.D  
Acq: 20 Dec 2018 1:56

Tgt Ion:112 Resp: 36024  
Ion Ratio Lower Upper  
112 100  
114 0.0 25.5 38.3#



Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V





#67

Ethyl Benzene

Concen: 3.865 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

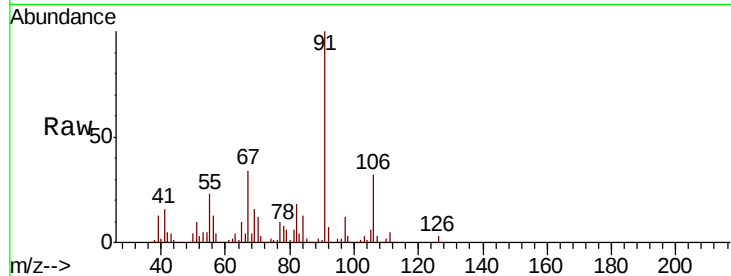
ClientSampled :

Tot Ion: 91 Resp: 280546

Ion Ratio Lower Upper

91 100

106 31.8 24.9 37.3



Abundance Ion 91.00 (90.70 to 91.70): VN052954.D (-3012) (-)

Ion 106.00 (105.70 to 106.70): VN052954.D (-3012) (-)

1000000

800000

600000

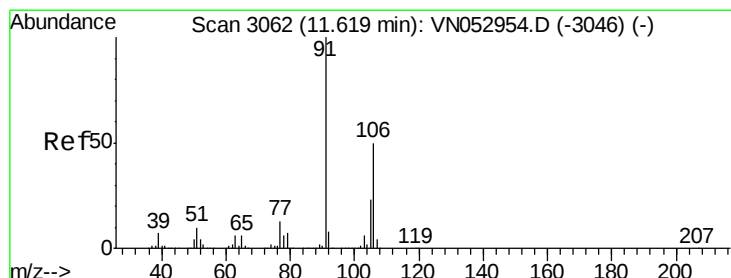
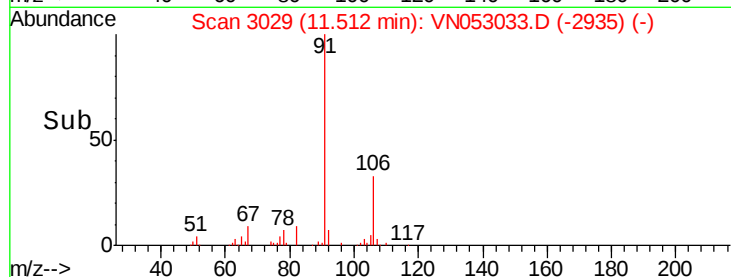
400000

200000

0

11.45 11.50 11.55 11.60

Time-->



#68

m/p-Xylenes

Concen: 29.939 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053033.D

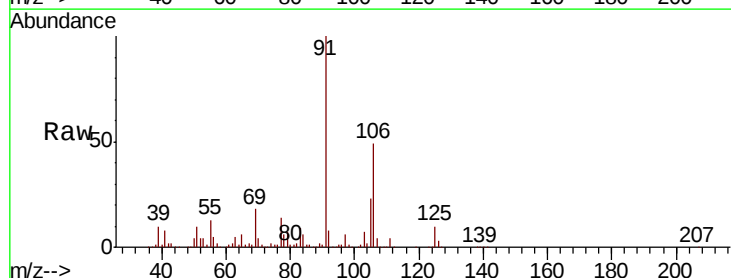
Acq: 20 Dec 2018 1:56

Tgt Ion: 106 Resp: 826141

Ion Ratio Lower Upper

106 100

91 203.9 162.2 243.4



Abundance Ion 106.00 (105.70 to 106.70): VN052954.D (-3046) (-)

Ion 91.00 (90.70 to 91.70): VN052954.D (-3046) (-)

1000000

800000

600000

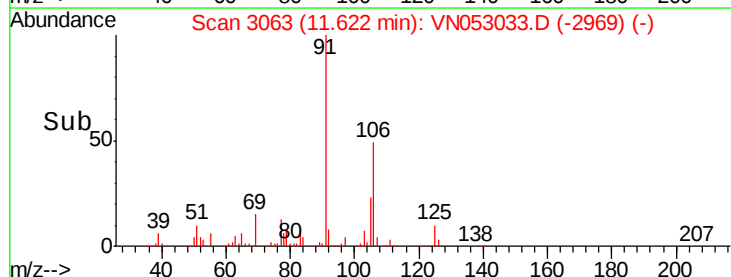
400000

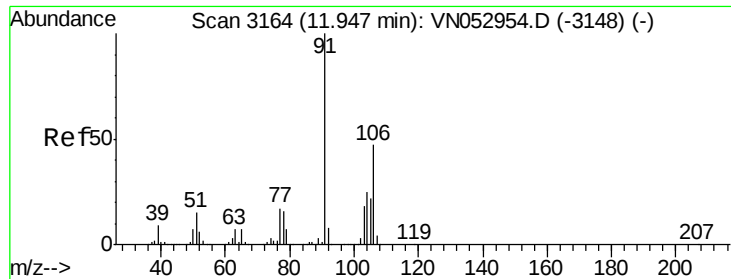
200000

0

11.50 11.60 11.70

Time-->





#69

o-Xylene

Concen: 1.397 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

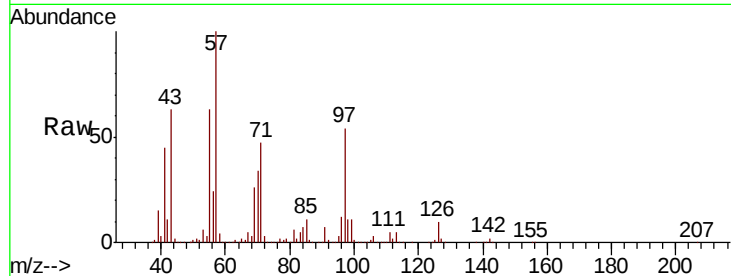
ClientSampled :

Tot Ion:106 Resp: 36989

Ion Ratio Lower Upper

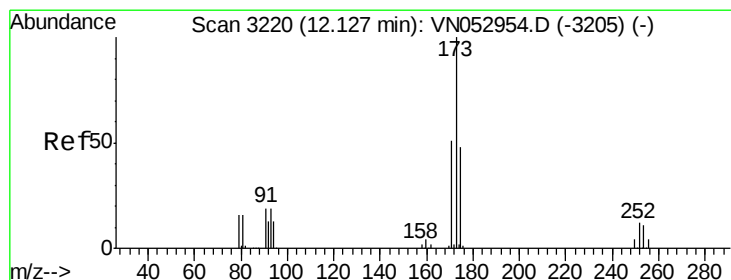
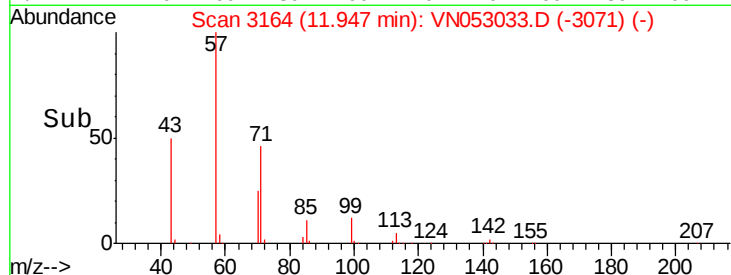
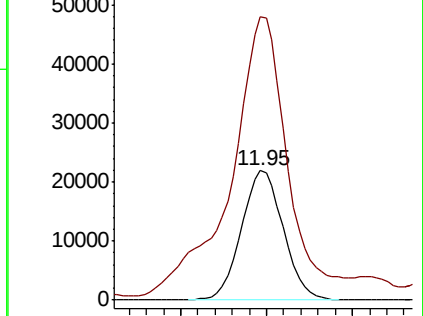
106 100

91 290.9 106.6 319.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#71

Bromoform

Concen: 0.482 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

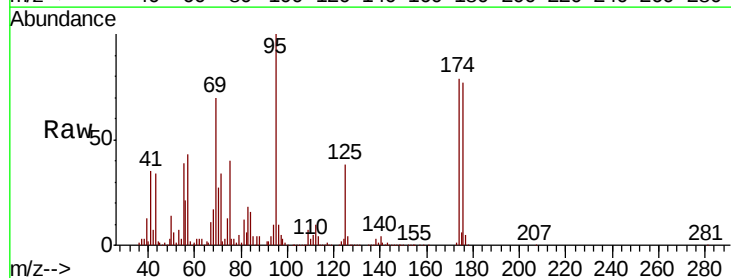
Tgt Ion:173 Resp: 5115

Ion Ratio Lower Upper

173 100

175 935.6 24.3 72.9#

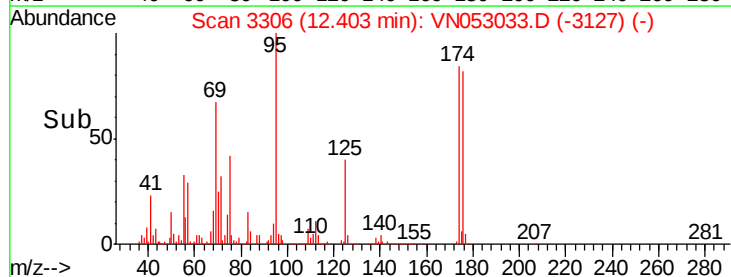
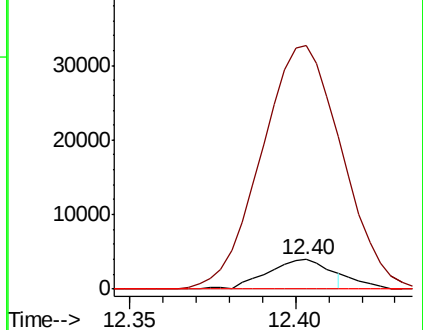
254 0.0 0.1 0.1#

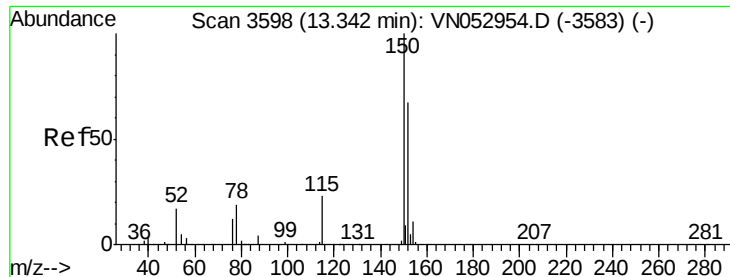


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

ClientSampleId :

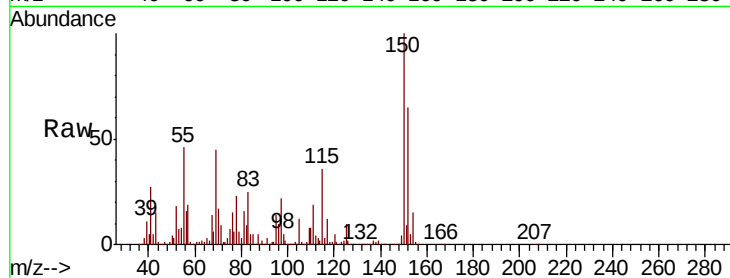
Tot Ion:152 Resp: 834661

Ion Ratio Lower Upper

152 100

115 51.9 28.3 85.0

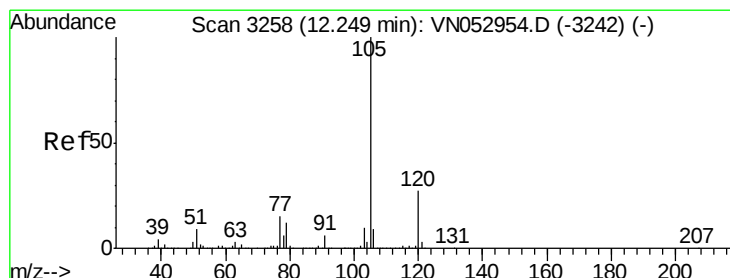
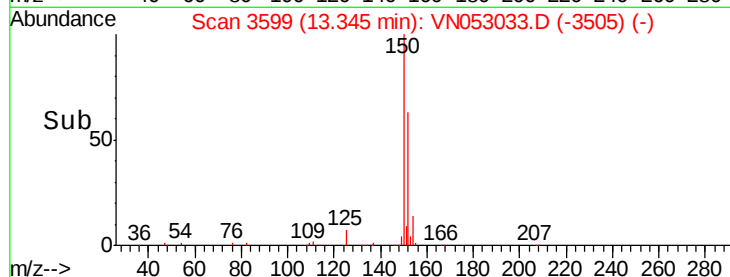
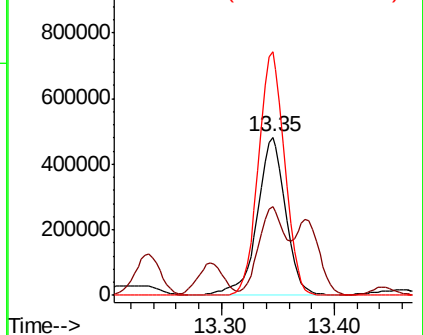
150 143.0 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 24.406 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053033.D

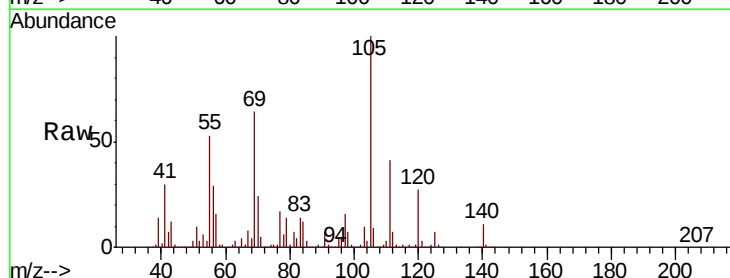
Acq: 20 Dec 2018 1:56

Tgt Ion:105 Resp: 1593840

Ion Ratio Lower Upper

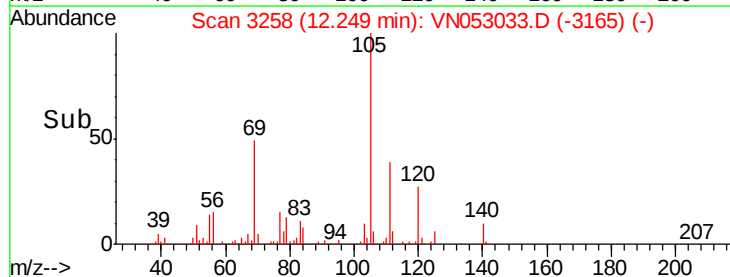
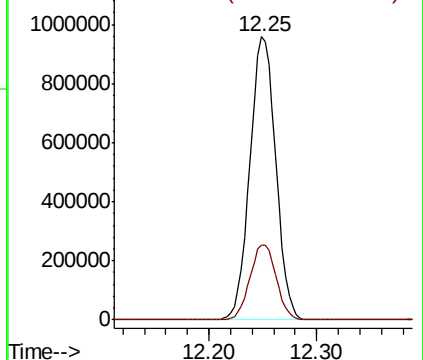
105 100

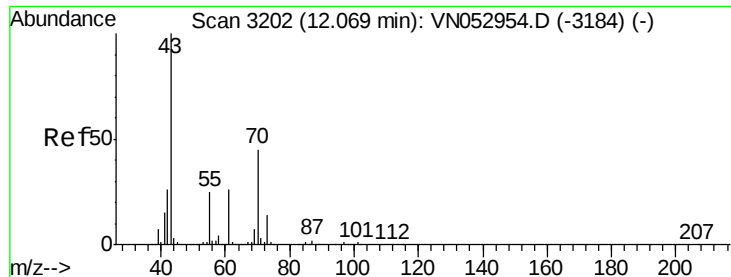
120 27.0 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyl acetate

Concen: 190.769 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. -0.02 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

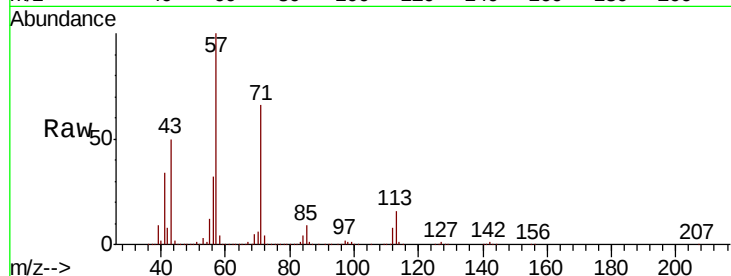
Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 43 Resp: 3458828

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 70  | 10.4  | 34.2  | 51.4# |
| 55  | 18.6  | 20.3  | 30.5# |
| 61  | 0.0   | 20.0  | 30.0# |



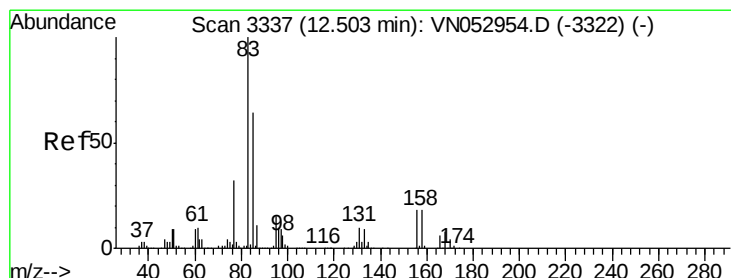
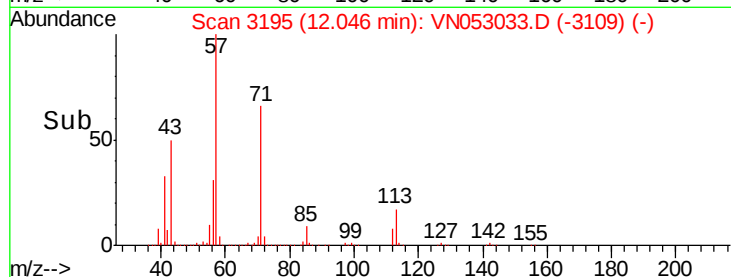
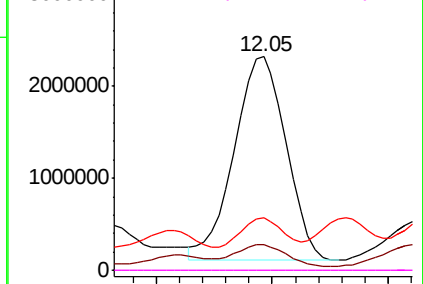
Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#75

1,1,2,2-Tetrachloroethane

Concen: 18.566 ug/l

RT: 12.48 min Scan# 3329

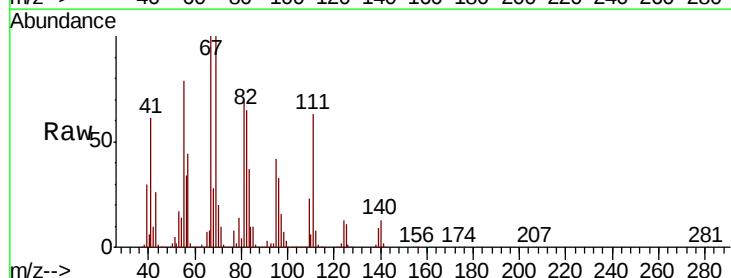
Delta R.T. -0.03 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Tgt Ion: 83 Resp: 237862

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 0.0   | 5.2   | 15.6# |
| 85  | 0.0   | 32.4  | 97.0# |

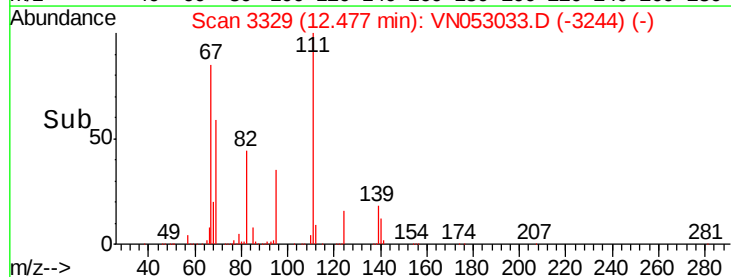
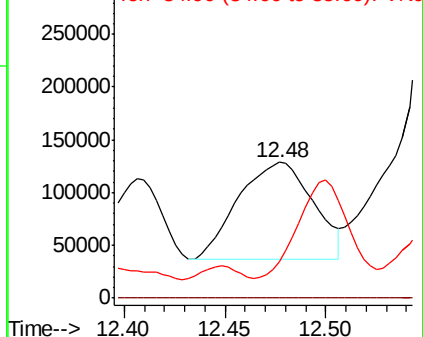


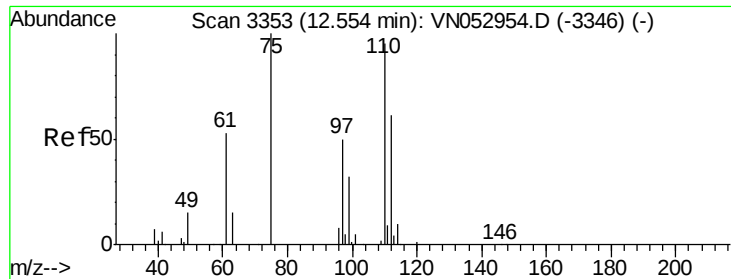
Abundance

Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 1.826 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.04 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

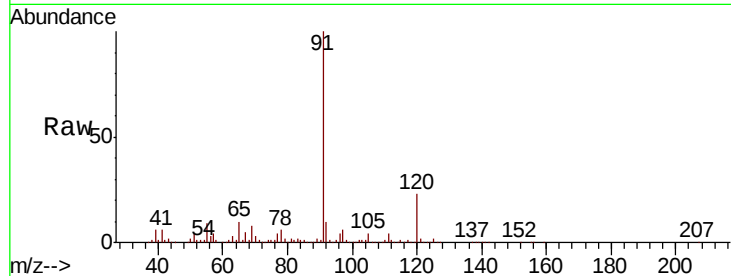
ClientSampled :

Tot Ion: 75 Resp: 25659

Ion Ratio Lower Upper

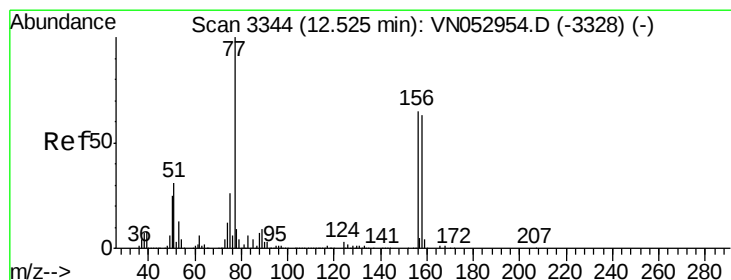
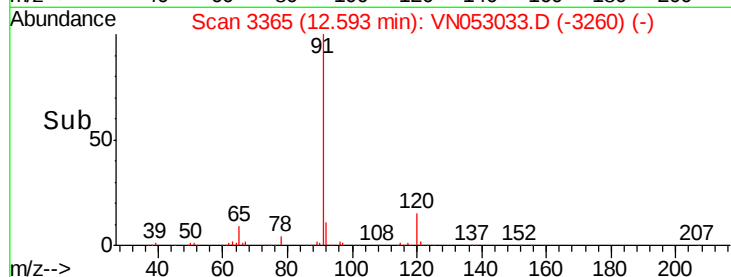
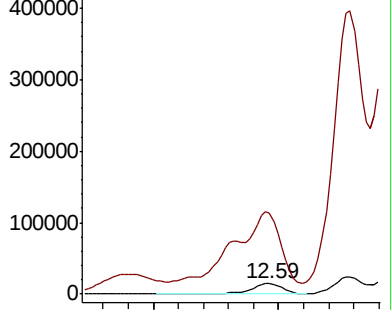
75 100

77 536.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN052954.D (-3346) (-)



#77

Bromobenzene

Concen: 0.263 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. -0.02 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

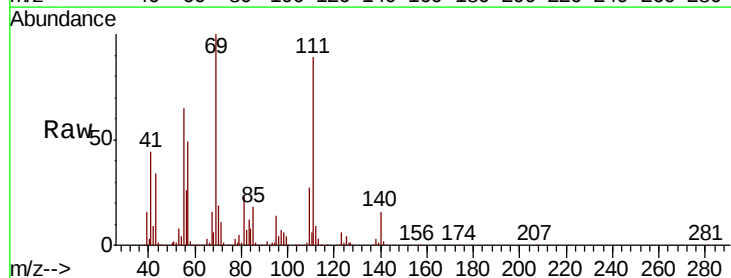
Tgt Ion: 156 Resp: 4469

Ion Ratio Lower Upper

156 100

77 0.0 91.3 273.8#

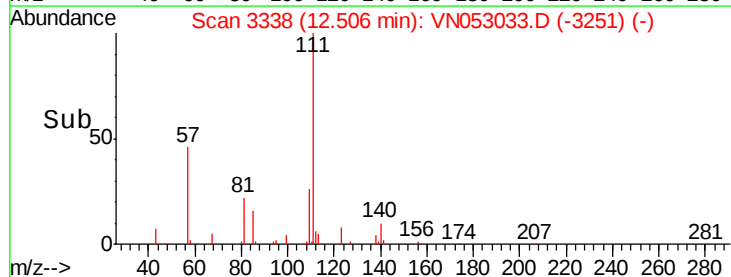
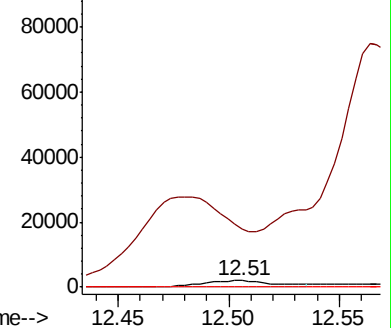
158 1.5 49.0 147.2#

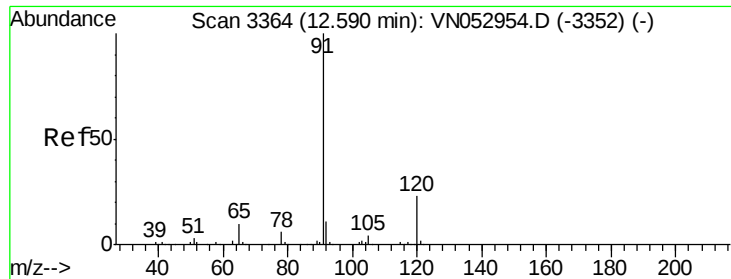


Abundance Ion 155.80 (155.50 to 156.50): VN052954.D (-3328) (-)

Ion 77.00 (76.70 to 77.70): VN052954.D (-3328) (-)

Ion 157.80 (157.50 to 158.50): VN052954.D (-3328) (-)





#78

n-propylbenzene

Concen: 59.788 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

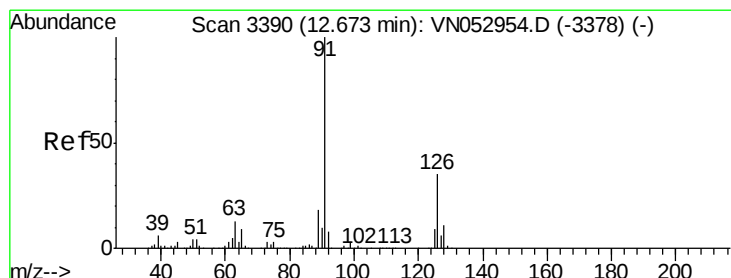
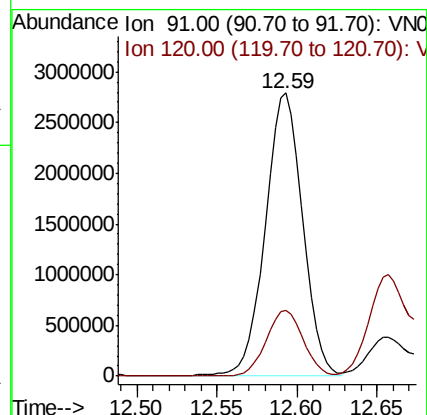
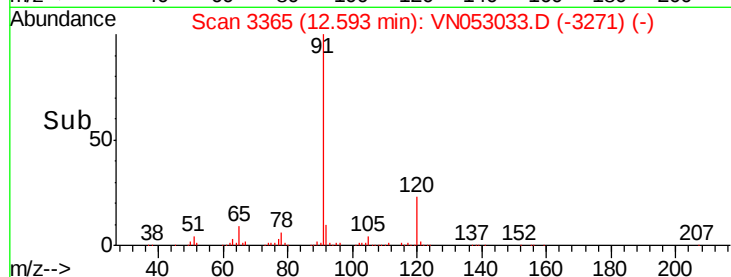
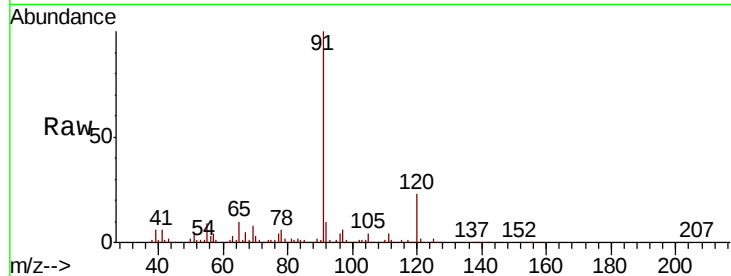
ClientSampleId :

Tot Ion: 91 Resp: 4446830

Ion Ratio Lower Upper

91 100

120 23.3 11.5 34.5



#79

2-Chlorotoluene

Concen: 10.123 ug/l

RT: 12.69 min Scan# 3395

Delta R.T. 0.02 min

Lab File: VN053033.D

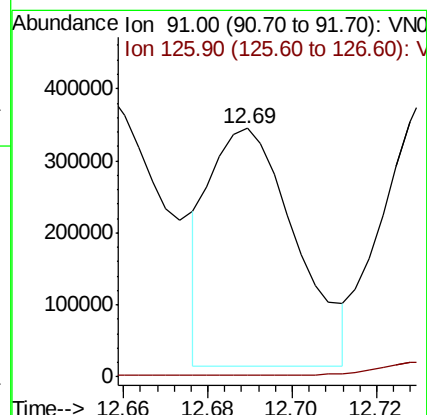
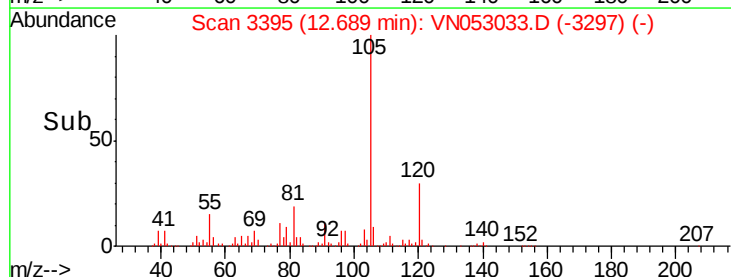
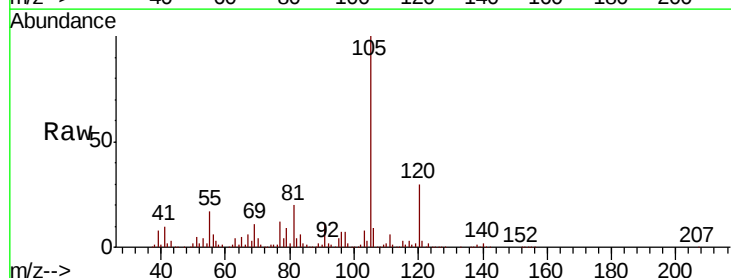
Acq: 20 Dec 2018 1:56

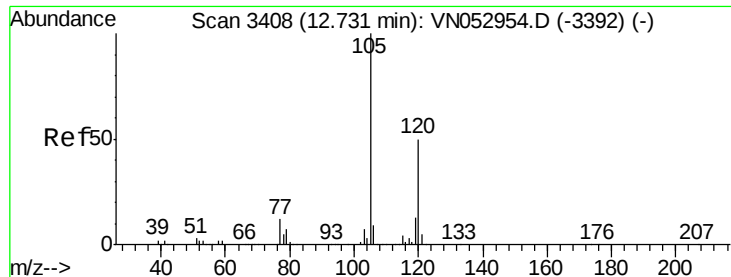
Tgt Ion: 91 Resp: 466675

Ion Ratio Lower Upper

91 100

126 0.0 17.4 52.3#





#80

1,3,5-Trimethylbenzene

Concen: 110.666 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

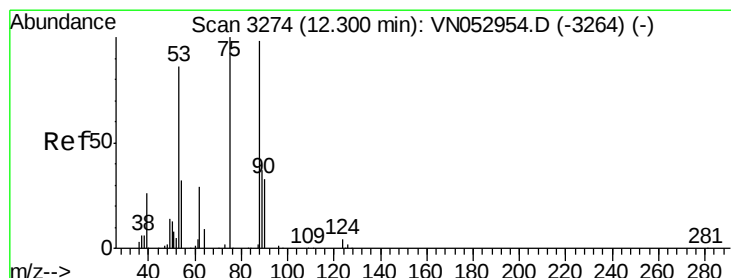
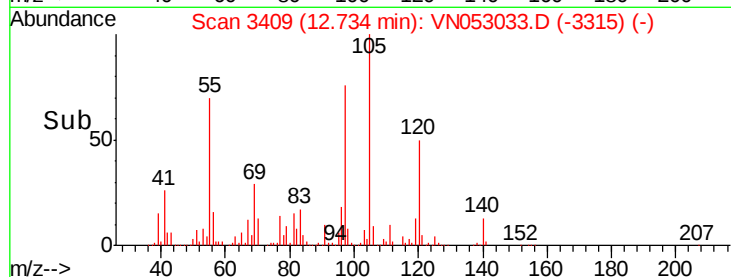
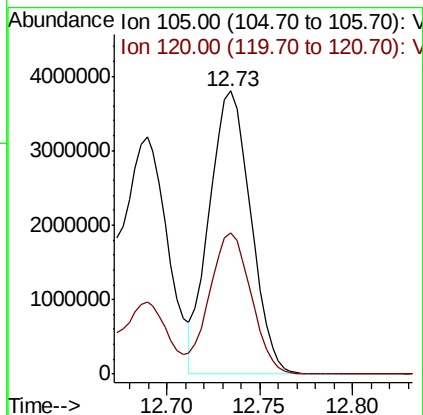
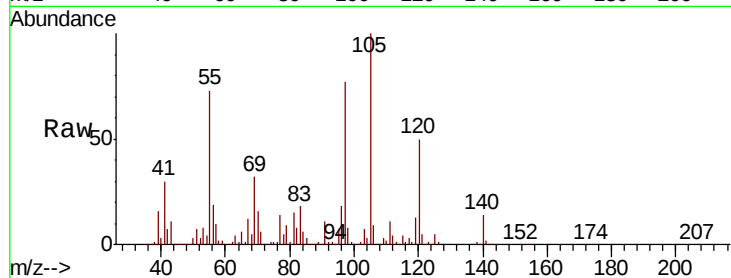
ClientSampled :

Tot Ion:105 Resp: 5890651

Ion Ratio Lower Upper

105 100

120 50.7 24.4 73.2



#81

trans-1,4-Dichloro-2-butene

Concen: 3.827 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.05 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

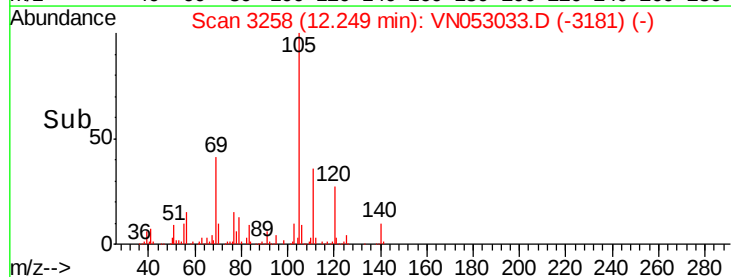
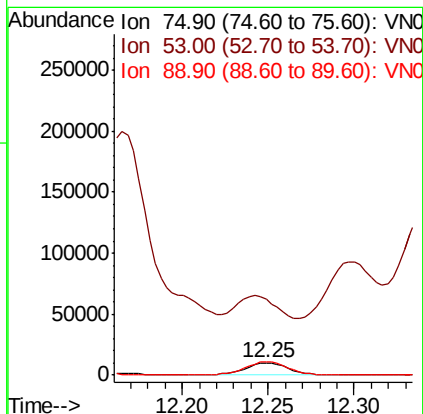
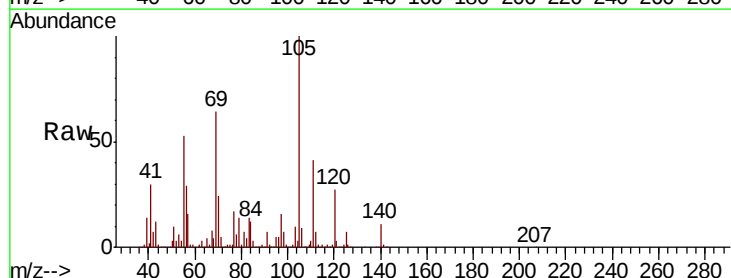
Tgt Ion: 75 Resp: 16682

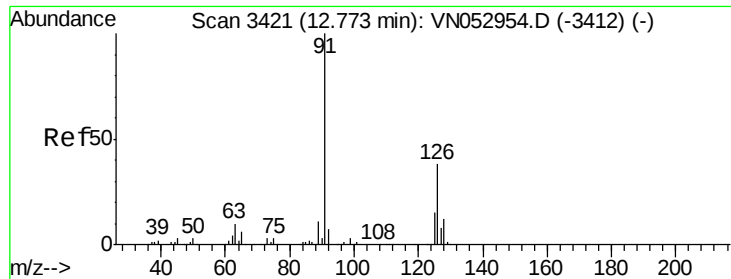
Ion Ratio Lower Upper

75 100

53 233.5 74.7 112.1#

89 105.9 36.1 54.1#





#82

4-Chlorotoluene

Concen: 13.280 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.04 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

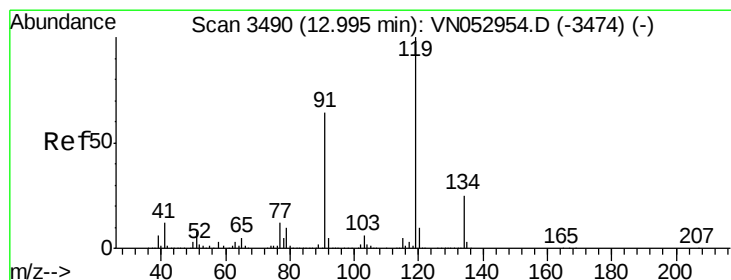
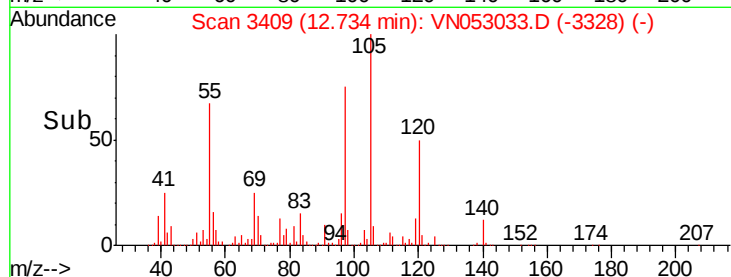
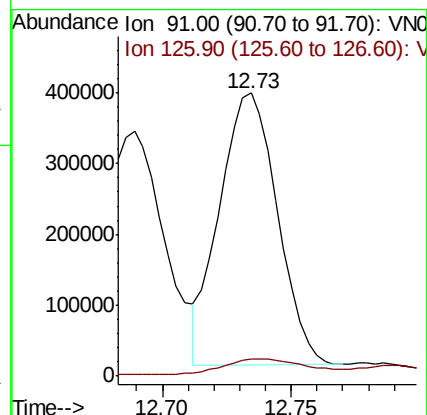
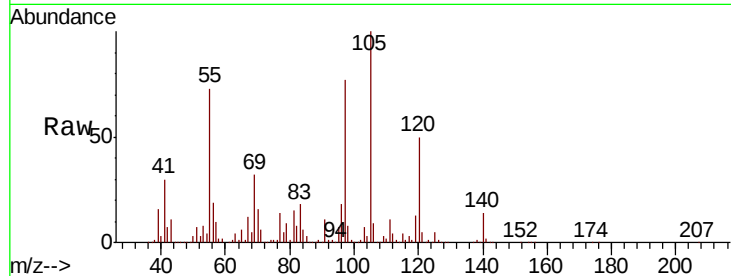
ClientSampled :

Tot Ion: 91 Resp: 599303

Ion Ratio Lower Upper

91 100

126 8.6 17.3 51.7#



#83

tert-Butylbenzene

Concen: 6.080 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

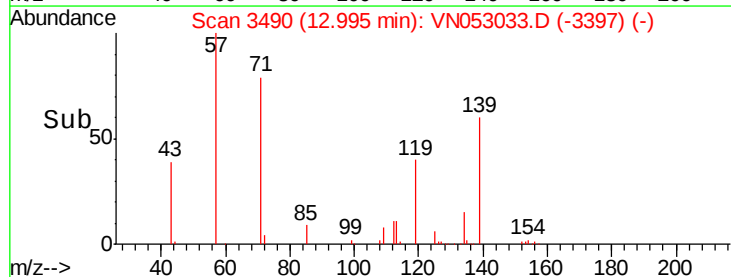
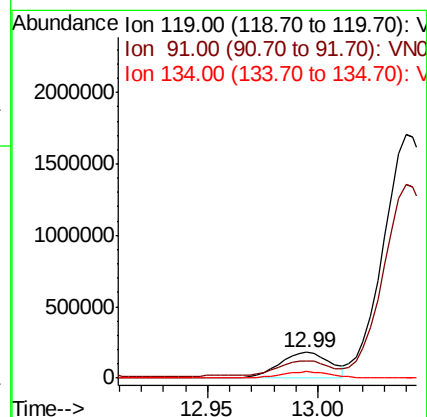
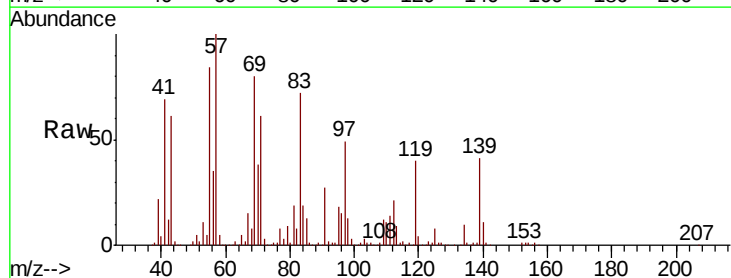
Tgt Ion: 119 Resp: 286211

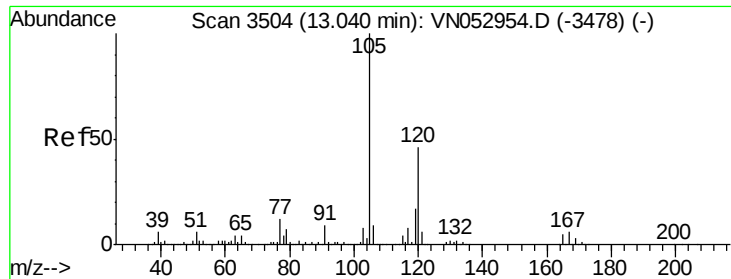
Ion Ratio Lower Upper

119 100

91 71.9 31.9 95.5

134 25.0 12.8 38.4

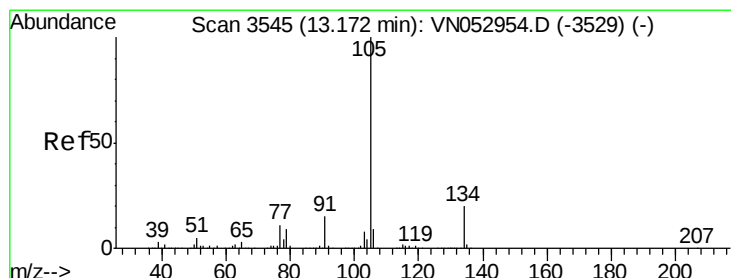
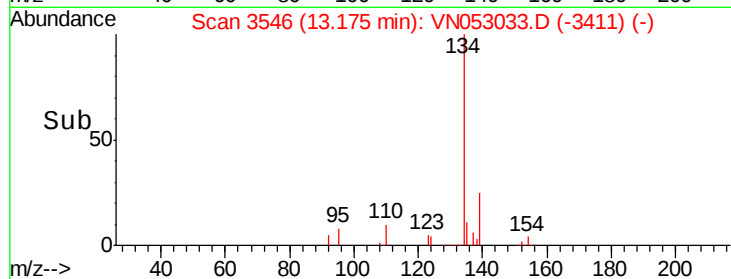
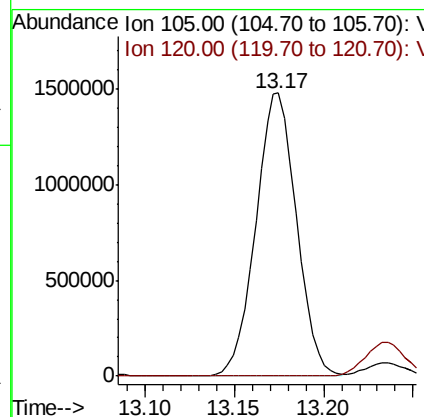
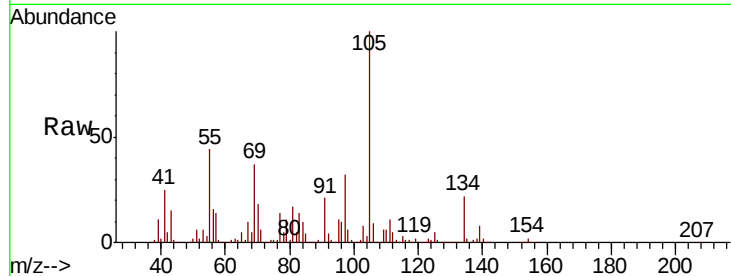




#84  
 1,2,4-Trimethylbenzene  
 Concen: 43.874 ug/l  
 RT: 13.17 min Scan# 3546  
 Delta R.T. 0.13 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

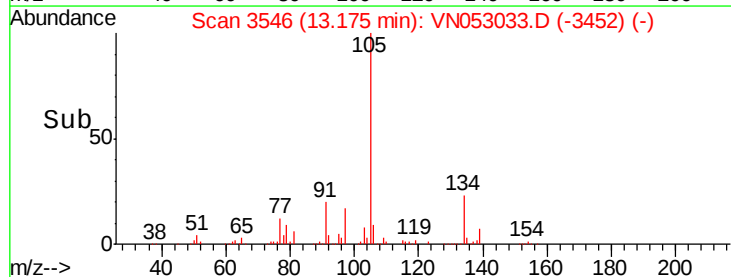
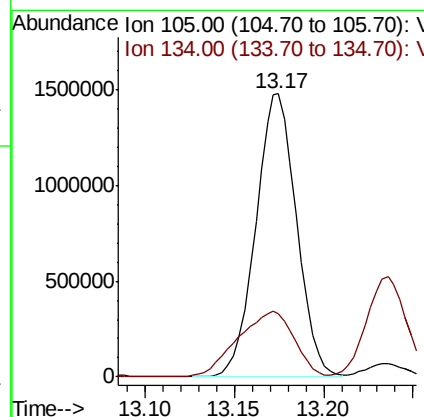
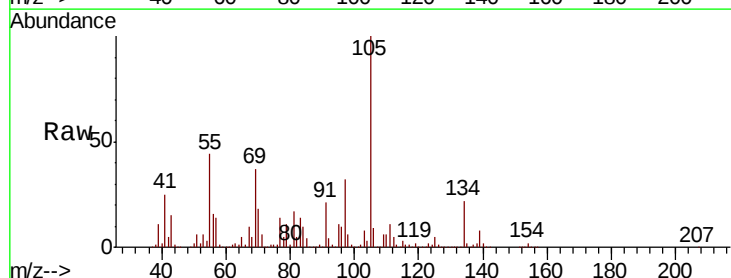
Instrument :  
 MSVOA\_N  
 ClientSampleId :

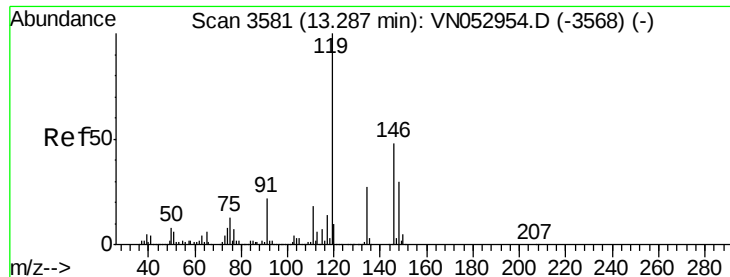
Tot Ion:105 Resp: 2347725  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 22.9 68.8#



#85  
 sec-Butylbenzene  
 Concen: 36.870 ug/l  
 RT: 13.17 min Scan# 3546  
 Delta R.T. 0.00 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

Tgt Ion:105 Resp: 2347725  
 Ion Ratio Lower Upper  
 105 100  
 134 32.3 10.1 30.3#

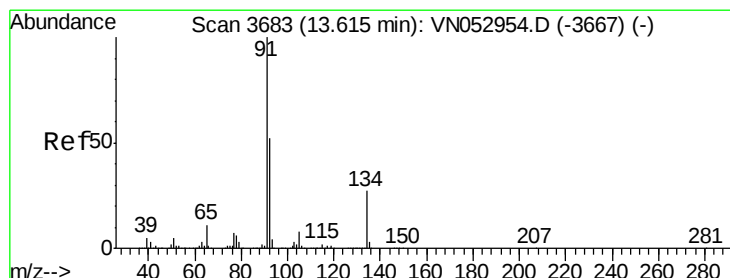
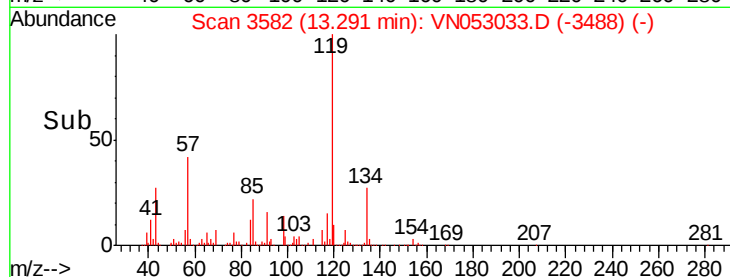
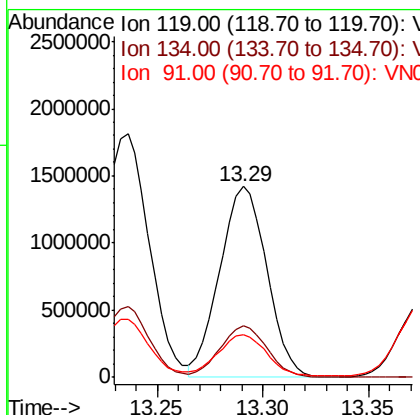
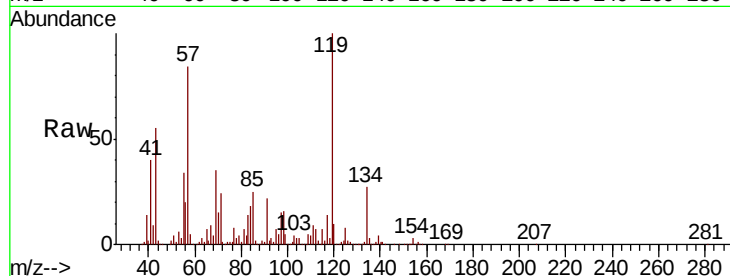




#86  
 p-Isopropyltoluene  
 Concen: 39.876 ug/l  
 RT: 13.29 min Scan# 3582  
 Delta R.T. 0.00 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

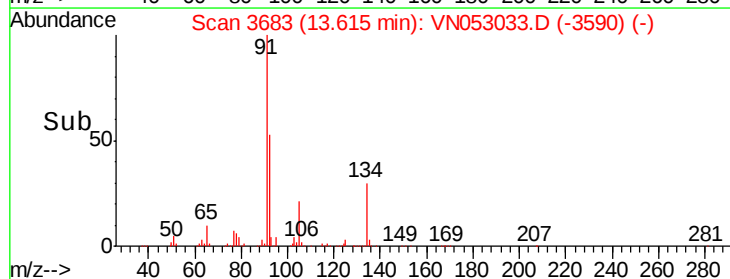
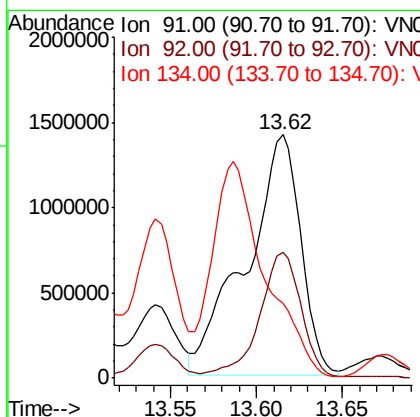
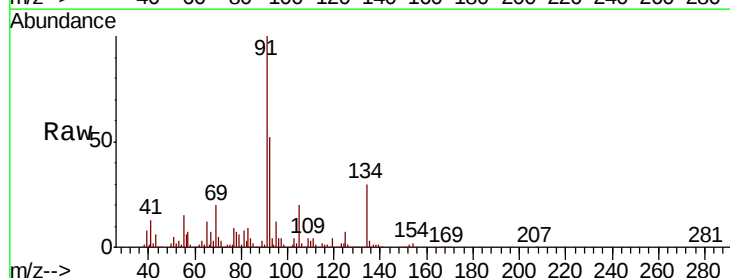
Instrument :  
 MSVOA\_N  
 ClientSampled :

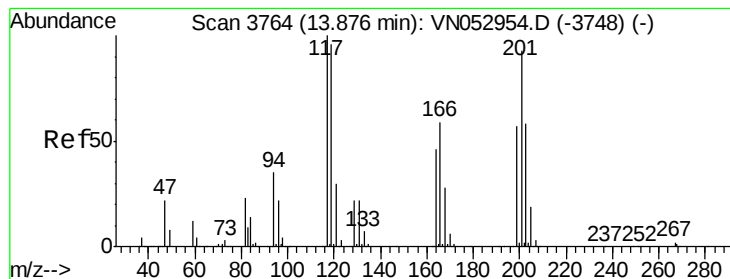
Tot Ion:119 Resp: 2194006  
 Ion Ratio Lower Upper  
 119 100  
 134 26.8 13.4 40.2  
 91 22.1 11.1 33.3



#89  
 n-Butylbenzene  
 Concen: 66.069 ug/l  
 RT: 13.62 min Scan# 3683  
 Delta R.T. -0.00 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

Tgt Ion: 91 Resp: 3127383  
 Ion Ratio Lower Upper  
 91 100  
 92 39.2 26.3 78.9  
 134 0.0 13.3 39.8#





#90

Hexachloroethane

Concen: 36.725 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

Instrument :

MSVOA\_N

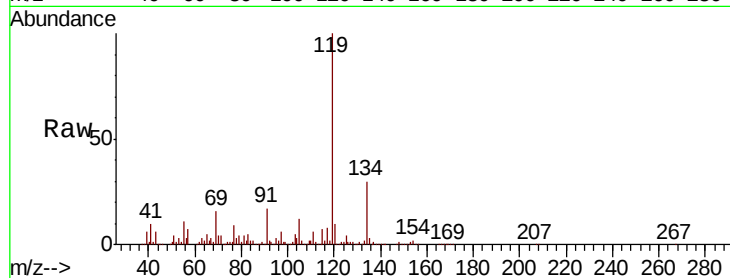
ClientSampled :

Tot Ion:117 Resp: 310080

Ion Ratio Lower Upper

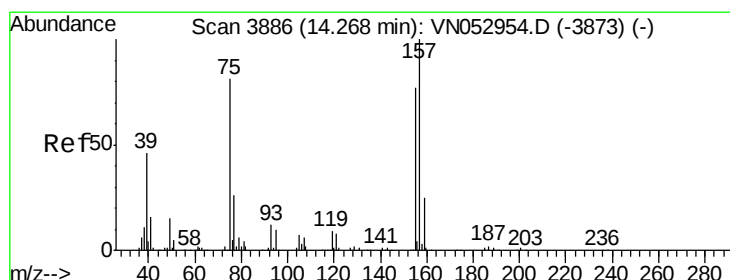
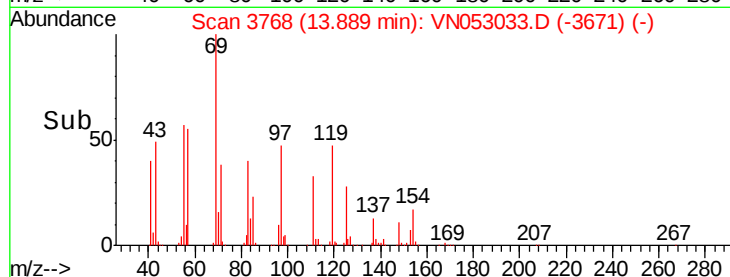
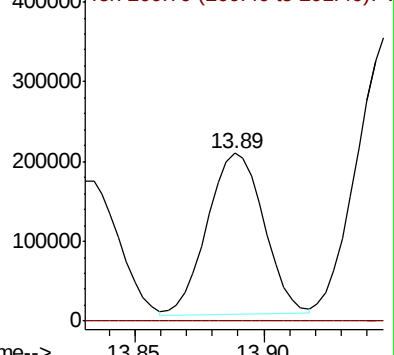
117 100

201 0.0 45.7 137.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 6.748 ug/l

RT: 14.25 min Scan# 3880

Delta R.T. -0.02 min

Lab File: VN053033.D

Acq: 20 Dec 2018 1:56

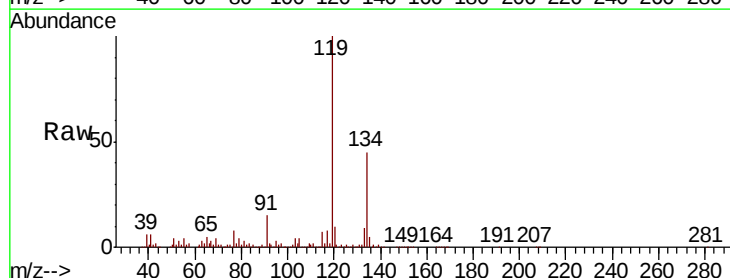
Tgt Ion: 75 Resp: 14948

Ion Ratio Lower Upper

75 100

155 0.0 48.2 144.6#

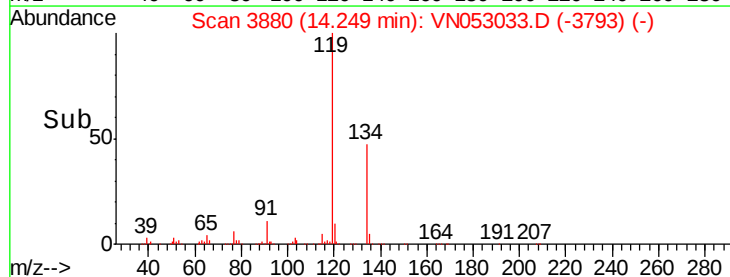
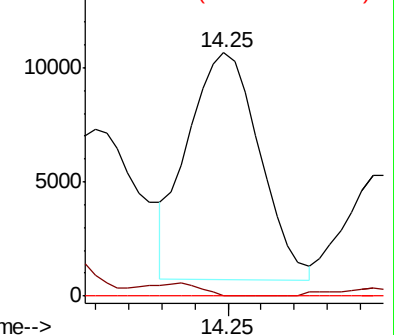
157 0.0 61.2 183.5#

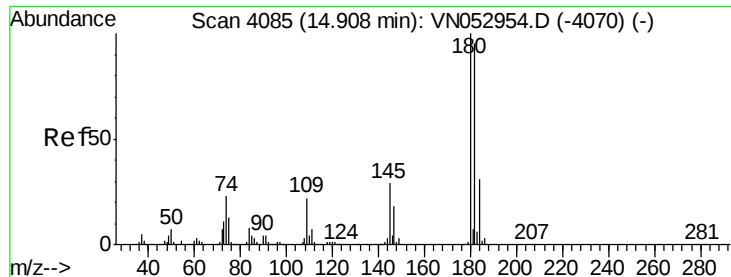


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

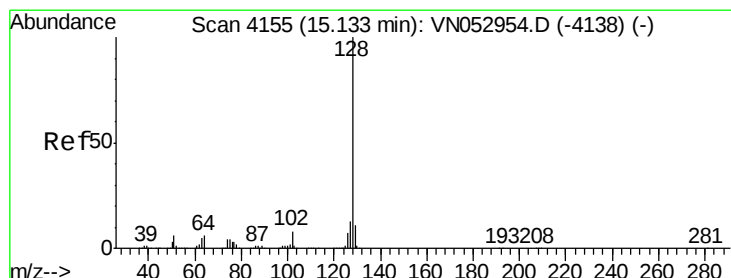
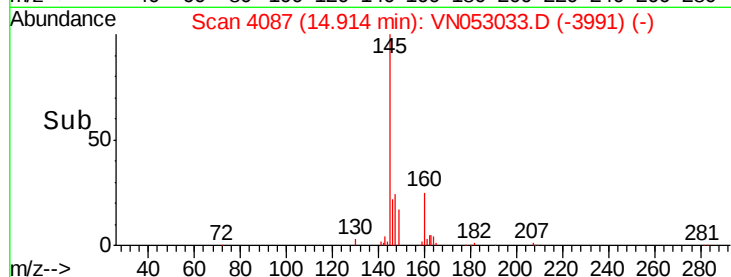
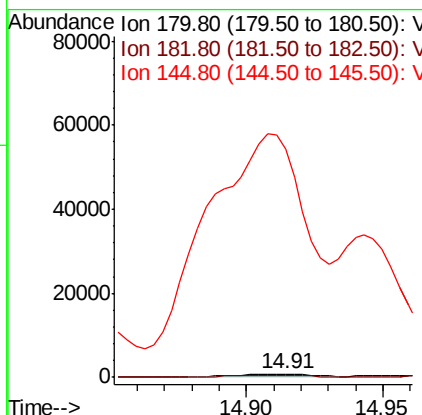
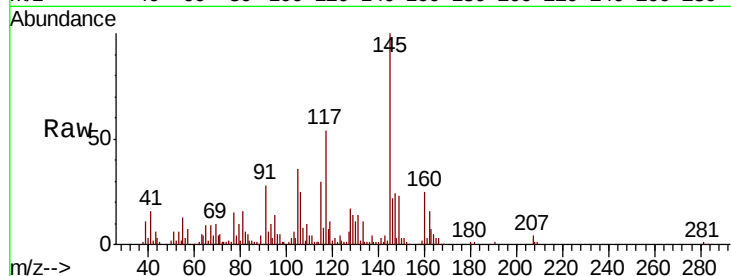




#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.701 ug/l  
 RT: 14.91 min Scan# 4087  
 Delta R.T. 0.01 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

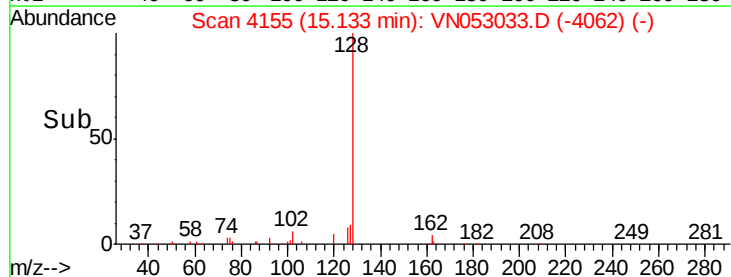
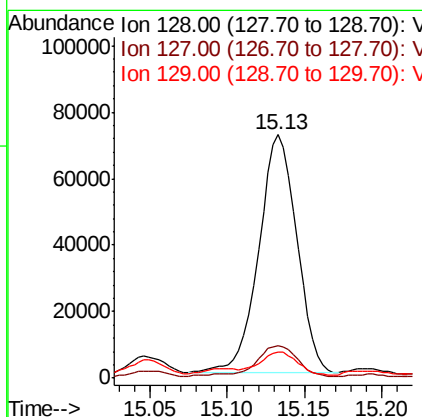
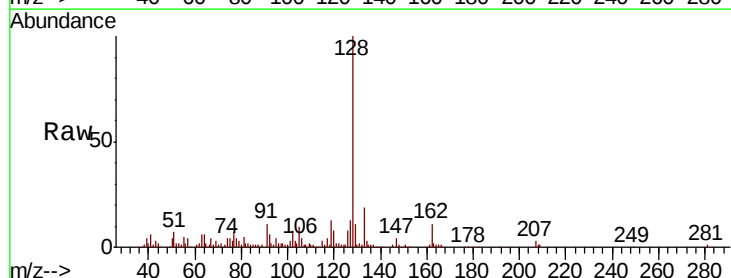
Instrument :  
 MSVOA\_N  
 ClientSampled :

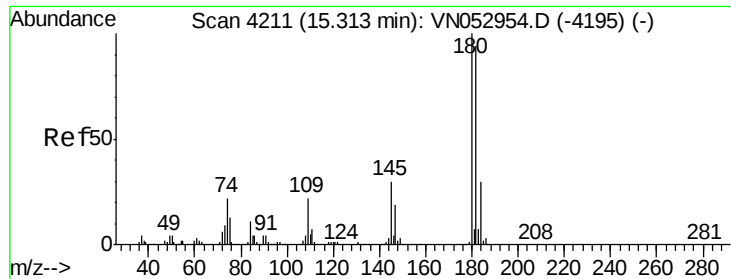
Tot Ion:180 Resp: 1591  
 Ion Ratio Lower Upper  
 180 100  
 182 73.6 47.8 143.3  
 145 7926.8 14.2 42.6#



#95  
 Naphthalene  
 Concen: 4.775 ug/l  
 RT: 15.13 min Scan# 4155  
 Delta R.T. -0.00 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

Tgt Ion:128 Resp: 121865  
 Ion Ratio Lower Upper  
 128 100  
 127 14.9 10.2 15.4  
 129 9.3 8.6 13.0





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.565 ug/l  
 RT: 15.32 min Scan# 4212  
 Delta R.T. 0.00 min  
 Lab File: VN053033.D  
 Acq: 20 Dec 2018 1:56

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio  | Lower | Upper  |
|---------|--------|-------|--------|
| 180     | 100    |       |        |
| 182     | 36.1   | 47.9  | 143.7# |
| 145     | 1680.4 | 15.0  | 45.0#  |

