

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\  
 Data File : VN054427.D  
 Acq On : 19 Mar 2019 7:19  
 Operator : JC/SP  
 Sample : K1970-01 10X  
 Misc : 6.87g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 19 07:55:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031219W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 13 03:33:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 1996169  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 2792998  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 2349631  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 1069533  | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 861867   | 40.66 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.32% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 821376   | 45.60 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.20% |          |
| 50) Toluene-d8              | 10.09 | 98   | 3208256  | 48.22 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.44% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 1026019  | 44.08 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.16% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 3.94  | 142  | 334      | 1.508     | ug/l # | 1      |
| 13) Acrolein                   | 3.61  | 56   | 298      | 0.216     | ug/l # | 69     |
| 16) Acetone                    | 3.83  | 43   | 1236     | 0.204     | ug/l # | 49     |
| 20) Methylene Chloride         | 4.54  | 84   | 6027     | 0.302     | ug/l   | 91     |
| 31) Cyclohexane                | 7.66  | 56   | 39001    | Below Cal | #      | 6      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 106981   | 4.159     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 153095   | 5.676     | ug/l # | 16     |
| 39) Methylcyclohexane          | 9.08  | 83   | 95617    | 3.021     | ug/l   | 99     |
| 48) Methyl methacrylate        | 9.14  | 41   | 4734     | 0.360     | ug/l # | 43     |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 17578    | 1.280     | ug/l # | 1      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 400      | 1.999     | ug/l # | 38     |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 48797    | 2.864     | ug/l # | 21     |
| 56) Ethyl methacrylate         | 10.43 | 69   | 17038    | 0.839     | ug/l # | 19     |
| 58) 2-Chloroethyl Vinyl ether  | 9.71  | 63   | 61       | 16.834    | ug/l # | 44     |
| 59) 2-Hexanone                 | 10.72 | 43   | 66677    | 7.299     | ug/l # | 29     |
| 67) Ethyl Benzene              | 11.51 | 91   | 70180    | 0.821     | ug/l   | 100    |
| 68) m/p-Xylenes                | 11.63 | 106  | 20772    | 0.621     | ug/l   | 98     |
| 71) Bromoform                  | 12.12 | 173  | 222      | 2.365     | ug/l # | 28     |
| 73) Isopropylbenzene           | 12.25 | 105  | 212660   | 2.485     | ug/l   | 98     |
| 74) N-amyl acetate             | 12.04 | 43   | 97416    | 5.129     | ug/l # | 54     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.45 | 83   | 11475    | 0.629     | ug/l # | 62     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 467231   | 29.707    | ug/l # | 100    |
| 77) Bromobenzene               | 12.55 | 156  | 152198   | 6.722     | ug/l # | 1      |
| 78) n-propylbenzene            | 12.59 | 91   | 562497   | 6.058     | ug/l   | 99     |
| 79) 2-Chlorotoluene            | 12.69 | 91   | 50524    | 0.905     | ug/l # | 41     |
| 80) 1,3,5-Trimethylbenzene     | 12.69 | 105  | 443632   | 6.233     | ug/l   | 72     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 467231   | 101.552   | ug/l # | 11     |
| 82) 4-Chlorotoluene            | 12.69 | 91   | 50524    | 0.906     | ug/l # | 42     |
| 83) tert-Butylbenzene          | 12.99 | 119  | 16829    | 0.257     | ug/l   | 85     |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 1746151  | 25.007    | ug/l   | 100    |
| 85) sec-Butylbenzene           | 13.17 | 105  | 645124   | 7.593     | ug/l   | 89     |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 301251   | 4.042     | ug/l   | 98     |
| 89) n-Butylbenzene             | 13.61 | 91   | 486236   | 8.586     | ug/l # | 63     |
| 90) Hexachloroethane           | 13.89 | 117  | 164152   | 13.300    | ug/l # | 2      |

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Data File : VN054427.D  
Acq On : 19 Mar 2019 7:19  
Operator : JC/SP  
Sample : K1970-01 10X  
Misc : 6.87g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 51 Sample Multiplier: 1

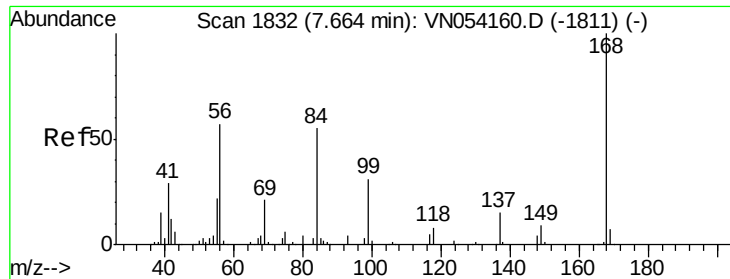
Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Mar 19 07:55:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031219W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 13 03:33:31 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 92) 1,2-Dibromo-3-Chloropropan | 14.29 | 75   | 3074     | 1.090  | ug/l # | 8        |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 10300    | 2.951  | ug/l # | 1        |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 2995     | 0.211  | ug/l   | 87       |
| 95) Naphthalene                | 15.13 | 128  | 410318   | 11.610 | ug/l # | 94       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

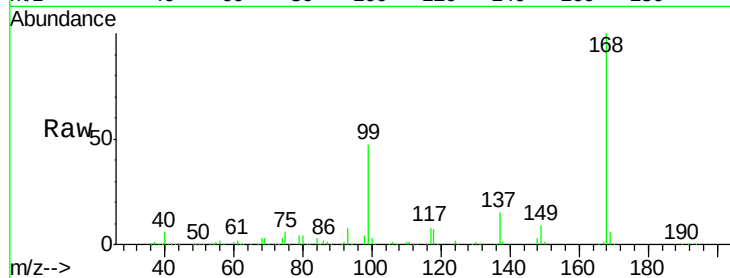
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:168 Resp: 1996169

Ion Ratio Lower Upper

168 100

99 46.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

800000

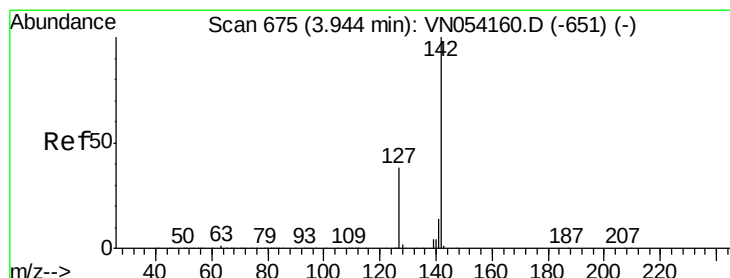
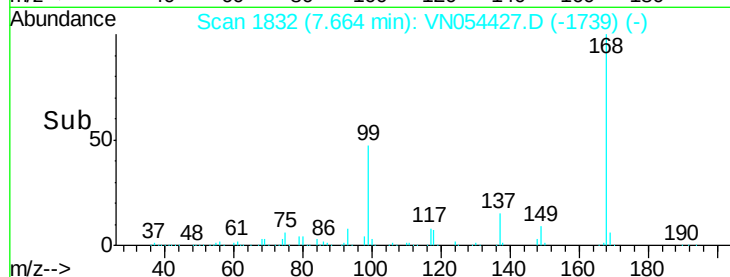
600000

400000

200000

0

Time-->



#10

Methyl Iodide

Concen: 1.508 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

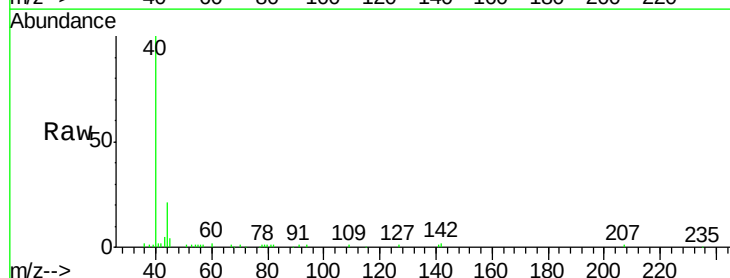
Tgt Ion:142 Resp: 334

Ion Ratio Lower Upper

142 100

127 100.0 30.3 45.5#

141 61.7 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.94

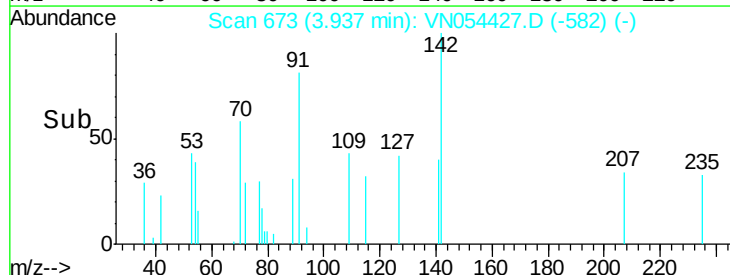
600

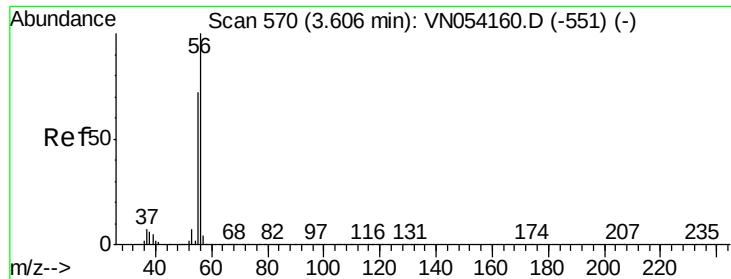
400

200

0

Time-->





#13

Acrolein

Concen: 0.216 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

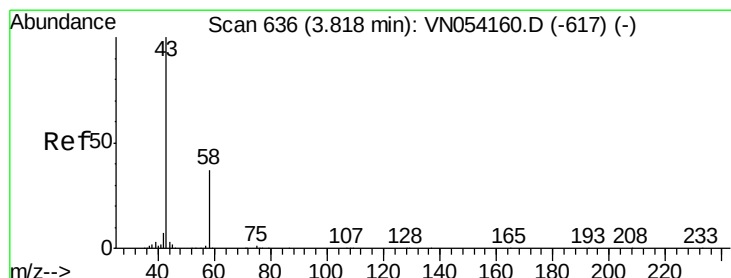
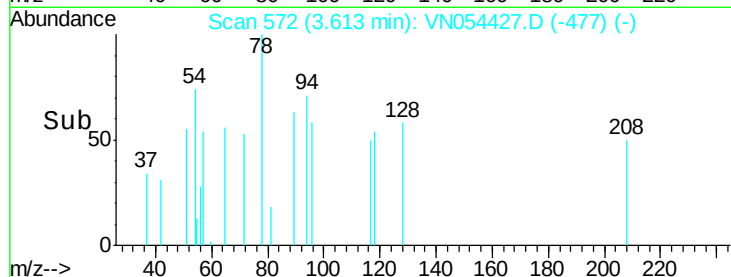
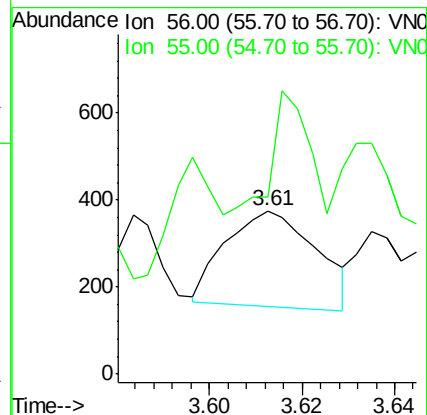
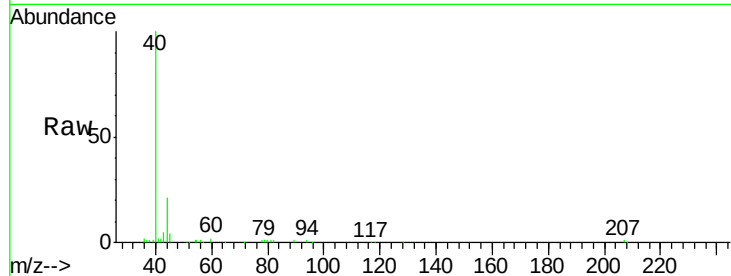
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 56 Resp: 298

Ion Ratio Lower Upper

56 100

55 96.6 56.7 85.1#



#16

Acetone

Concen: 0.204 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054427.D

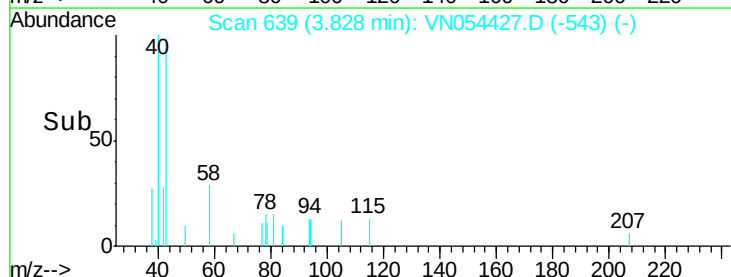
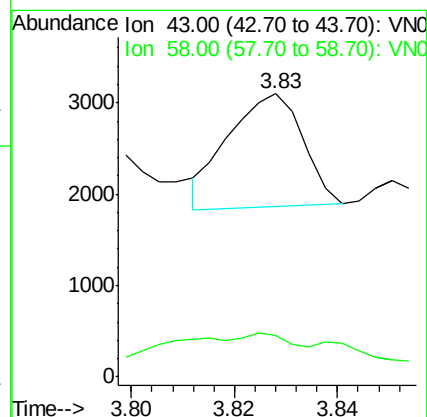
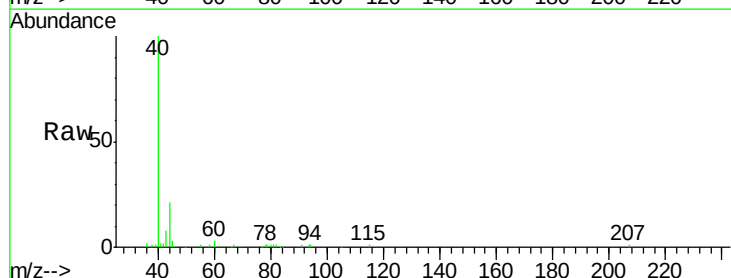
Acq: 19 Mar 2019 7:19

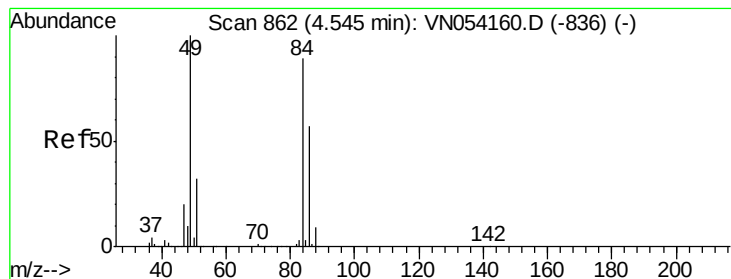
Tgt Ion: 43 Resp: 1236

Ion Ratio Lower Upper

43 100

58 7.1 29.9 44.9#





#20

Methylene Chloride

Concen: 0.302 ug/l

RT: 4.54 min Scan# 861

Delta R.T. -0.00 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 84 Resp: 6027

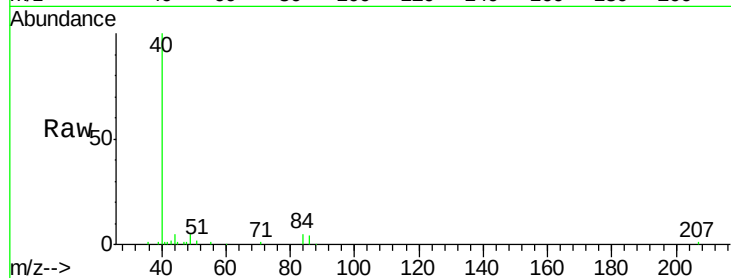
Ion Ratio Lower Upper

84 100

49 100.3 89.7 134.5

51 37.8 28.2 42.4

86 70.1 50.8 76.2

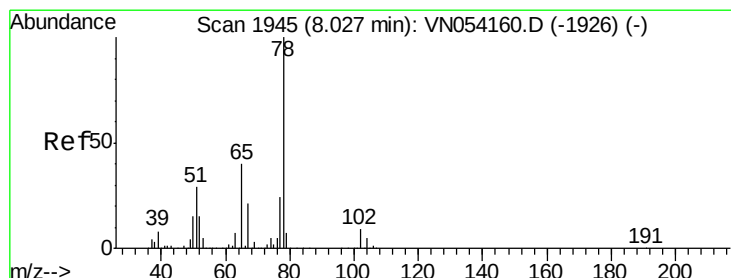
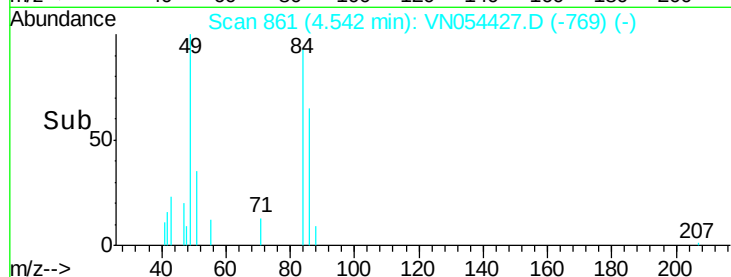
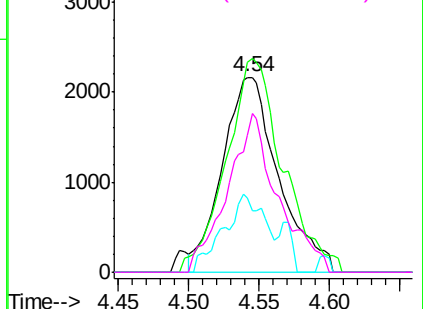


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 40.655 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054427.D

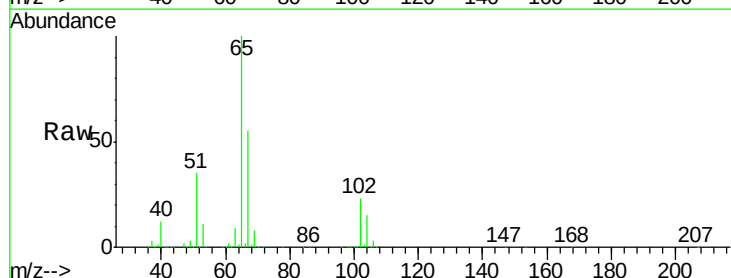
Acq: 19 Mar 2019 7:19

Tgt Ion: 65 Resp: 861867

Ion Ratio Lower Upper

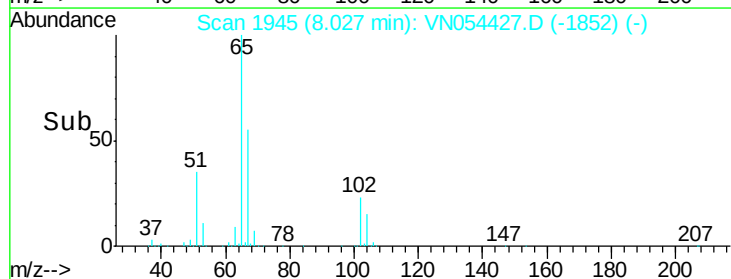
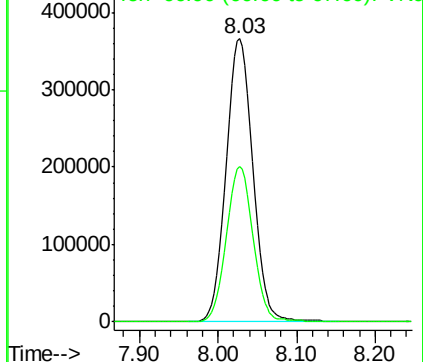
65 100

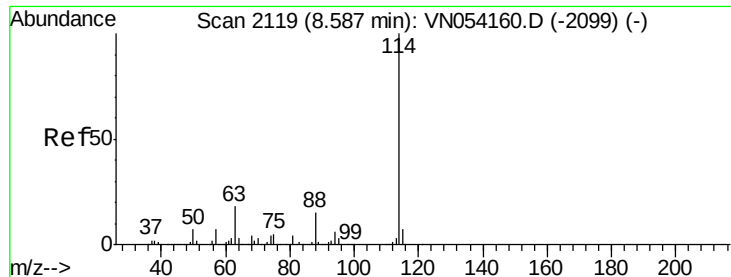
67 54.6 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

ClientSampleId :

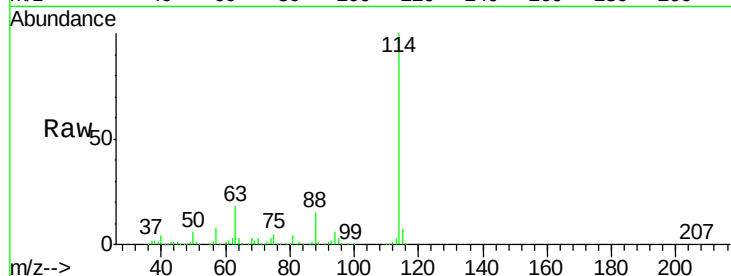
Tot Ion:114 Resp: 2792998

Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.2

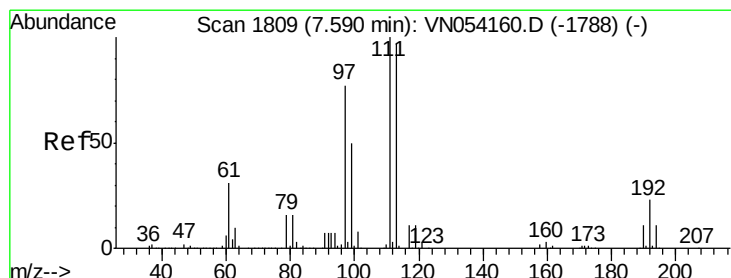
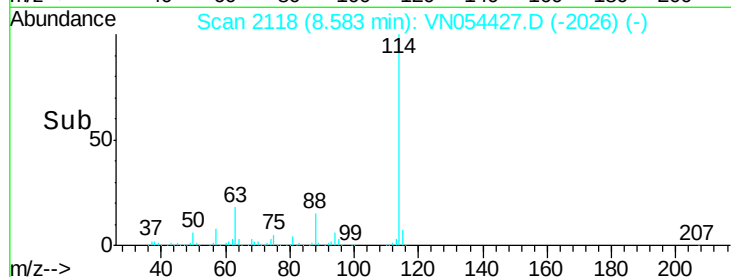
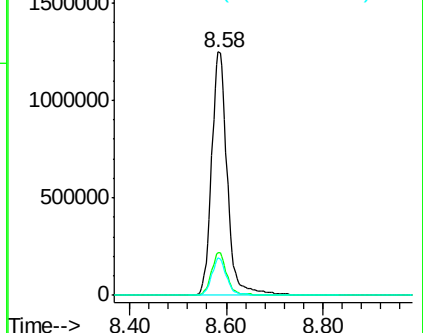
88 15.2 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 45.597 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

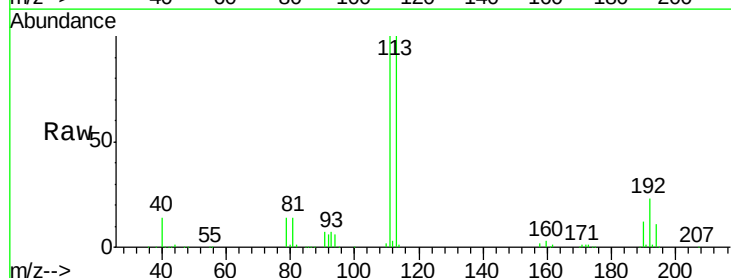
Tgt Ion:113 Resp: 821376

Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.4

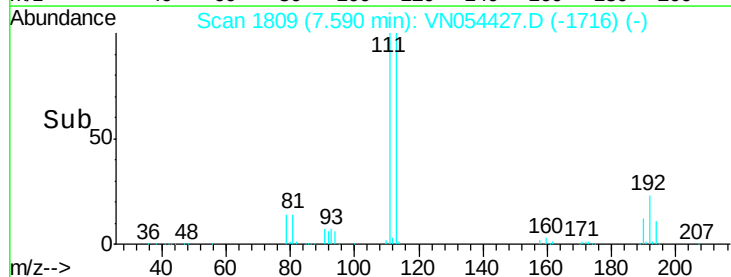
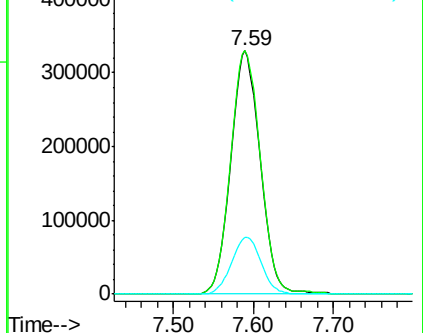
192 23.5 19.2 28.8

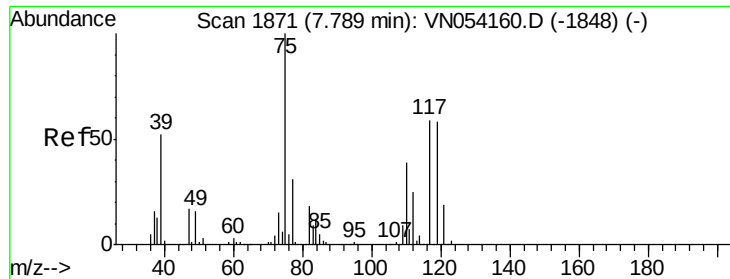


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

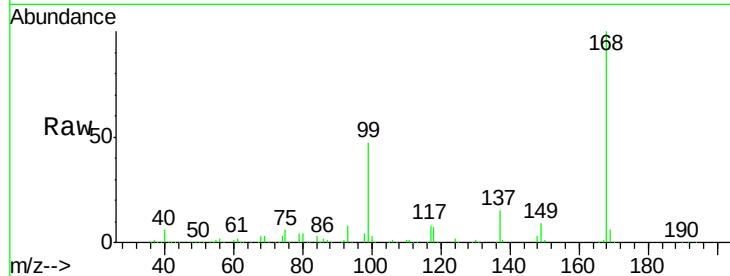




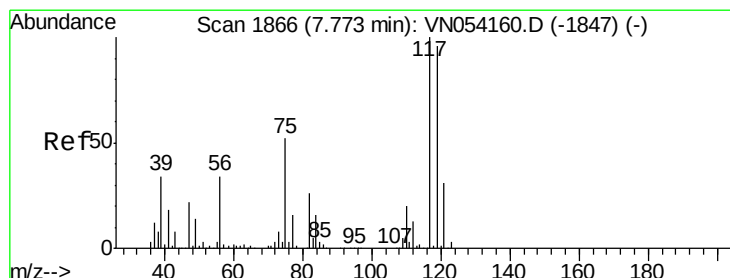
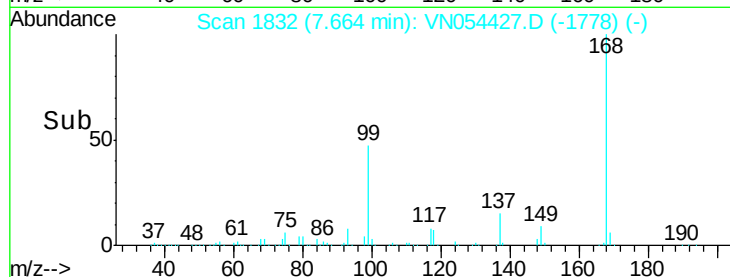
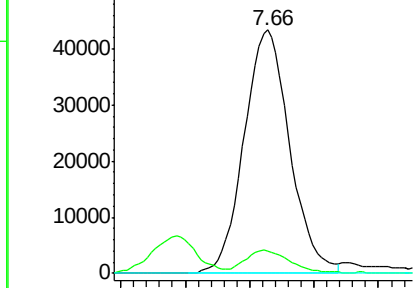
#36  
 1,1-Dichloropropene  
 Concen: 4.159 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN054427.D  
 Acq: 19 Mar 2019 7:19

Instrument :  
 MSVOA\_N  
 ClientSampled :

| Tot Ion | 75  | 110 | 77  | Resp | Lower | Upper |
|---------|-----|-----|-----|------|-------|-------|
| 106981  | 100 | 9.5 | 0.0 |      | 19.1  | 57.5# |
|         |     |     |     |      | 25.0  | 37.4# |

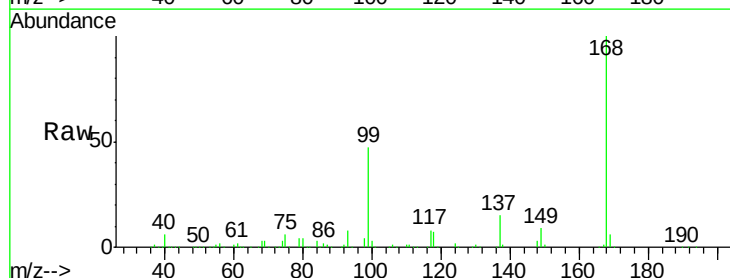


Abundance Ion 74.90 (74.60 to 75.60): VN054427.D (-1778) (-)  
 Ion 109.90 (109.60 to 110.60): VN054427.D (-1778) (-)  
 Ion 76.90 (76.60 to 77.60): VN054427.D (-1778) (-)

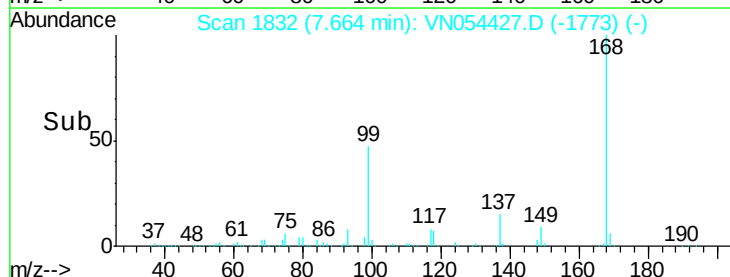
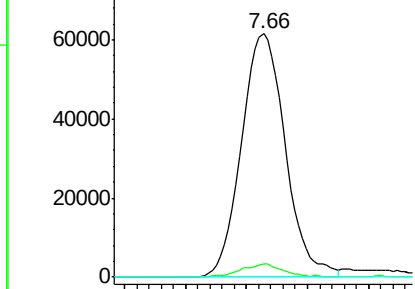


#38  
 Carbon Tetrachloride  
 Concen: 5.676 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.11 min  
 Lab File: VN054427.D  
 Acq: 19 Mar 2019 7:19

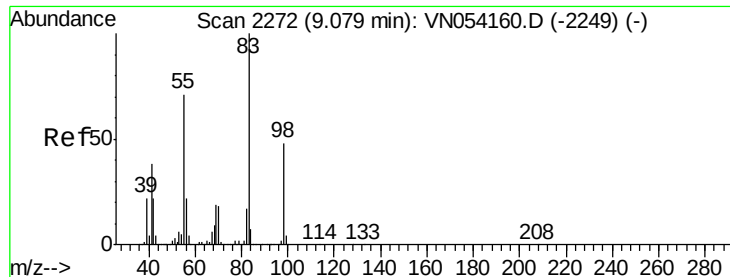
| Tgt Ion | 117 | 119 | 121 | Resp | Lower | Upper  |
|---------|-----|-----|-----|------|-------|--------|
| 153095  | 100 | 5.4 | 0.0 |      | 76.3  | 114.5# |
|         |     |     |     |      | 24.6  | 36.8#  |



Abundance Ion 116.80 (116.50 to 117.50): VN054427.D (-1773) (-)  
 Ion 118.80 (118.50 to 119.50): VN054427.D (-1773) (-)  
 Ion 120.80 (120.50 to 121.50): VN054427.D (-1773) (-)



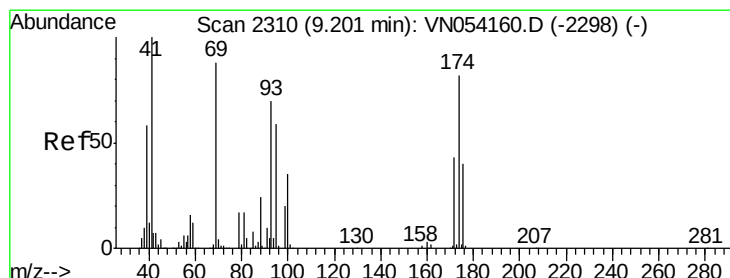
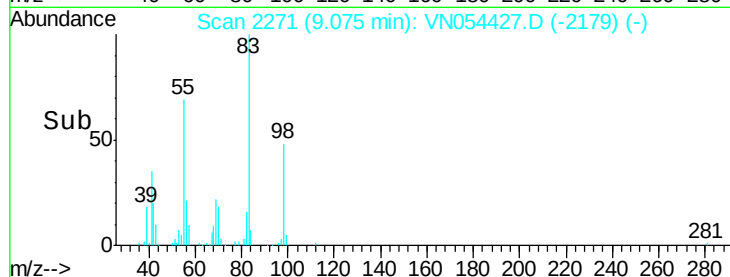
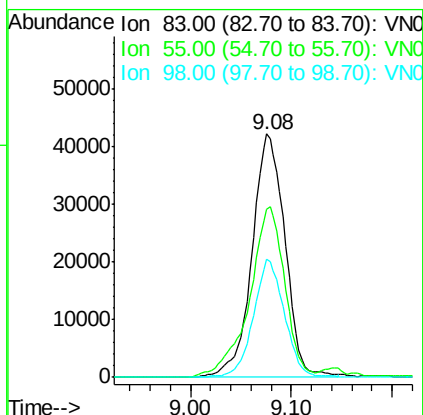
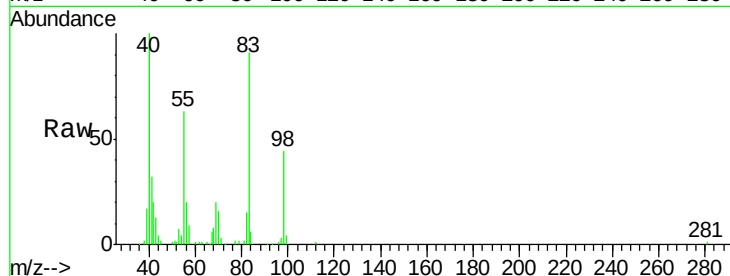




#39  
Methylcyclohexane  
Concen: 3.021 ug/l  
RT: 9.08 min Scan# 2271  
Delta R.T. -0.00 min  
Lab File: VN054427.D  
Acq: 19 Mar 2019 7:19

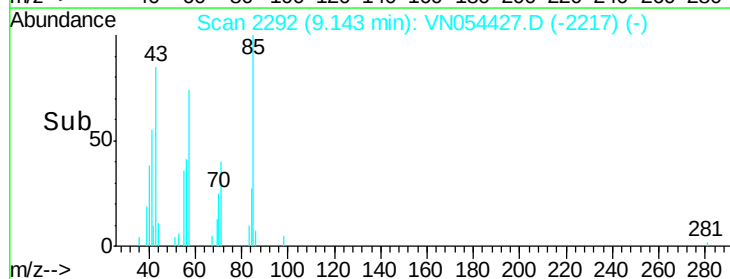
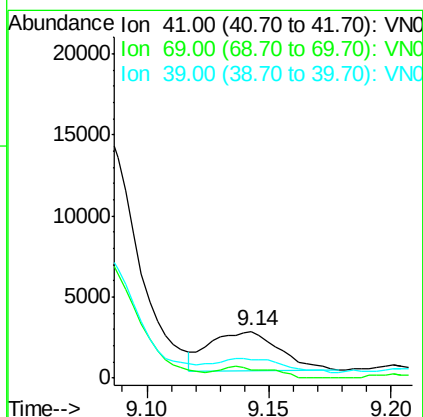
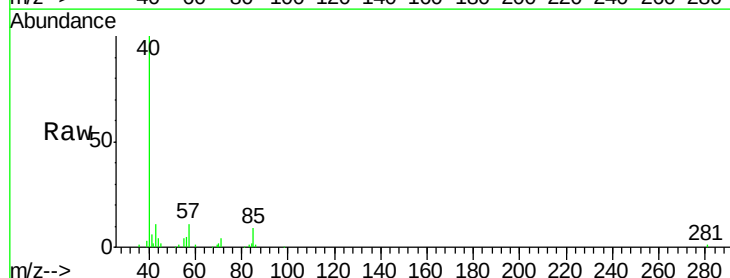
Instrument :  
MSVOA\_N  
ClientSampled :

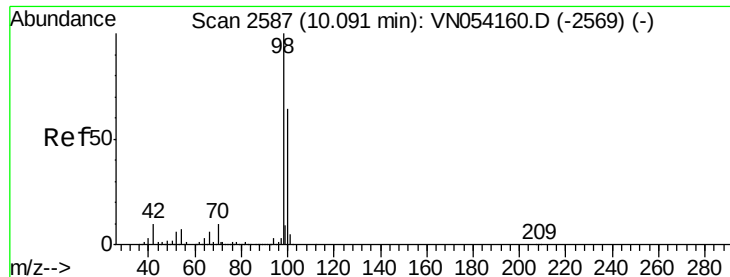
| Tot Ion   | 83    | Resp  | 95617 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 69.0  | 56.6  | 84.8  |
| 98        | 48.4  | 38.4  | 57.6  |



#48  
Methyl methacrylate  
Concen: 0.360 ug/l  
RT: 9.14 min Scan# 2292  
Delta R.T. -0.06 min  
Lab File: VN054427.D  
Acq: 19 Mar 2019 7:19

| Tgt Ion   | 41    | Resp  | 4734   |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 41        | 100   |       |        |
| 69        | 22.4  | 72.6  | 108.8# |
| 39        | 33.2  | 47.5  | 71.3#  |





#50

Toluene-d8

Concen: 48.225 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

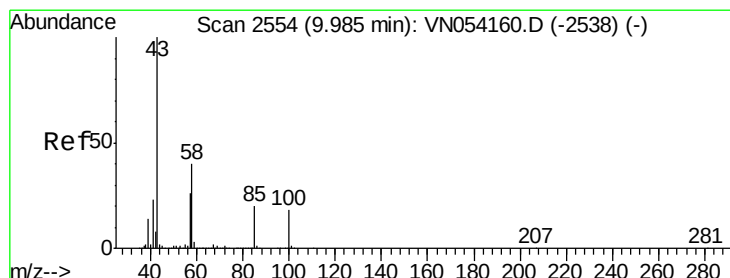
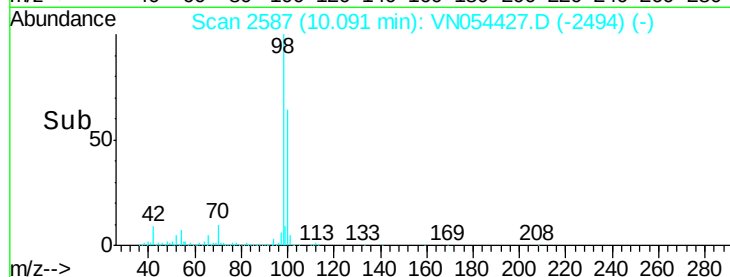
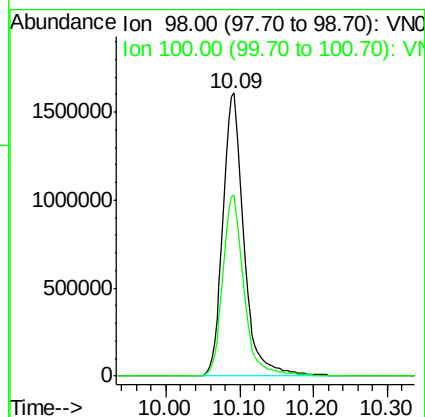
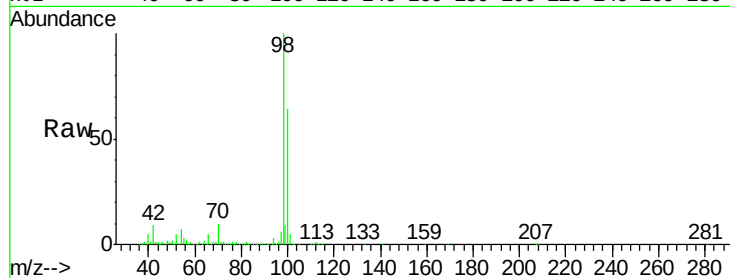
ClientSampleId :

Tot Ion: 98 Resp: 3208256

Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.280 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.10 min

Lab File: VN054427.D

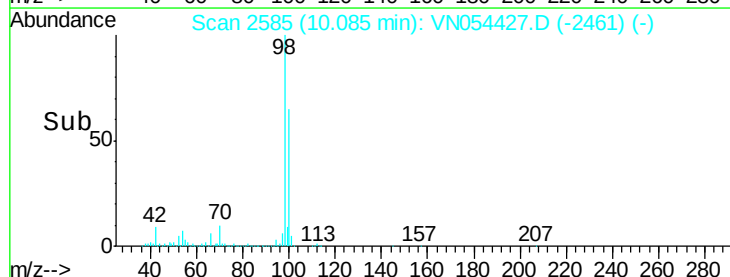
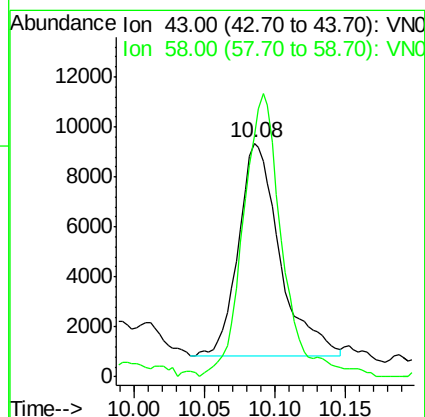
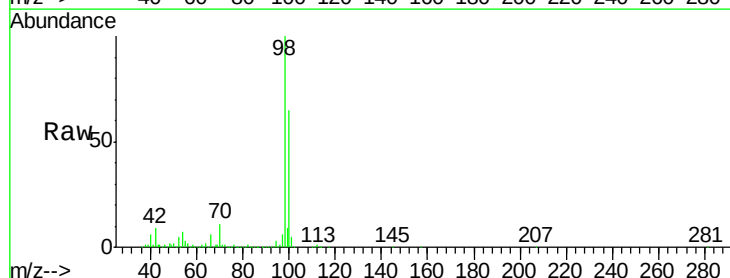
Acq: 19 Mar 2019 7:19

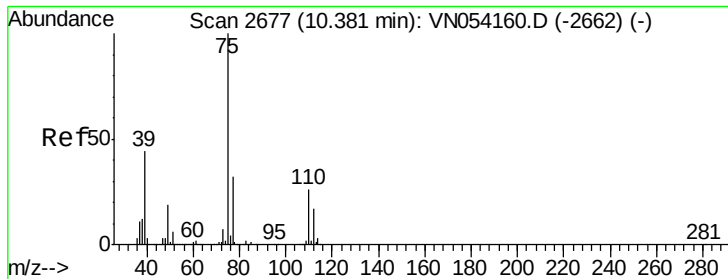
Tgt Ion: 43 Resp: 17578

Ion Ratio Lower Upper

43 100

58 125.1 31.8 47.6#





#53

t-1,3-Dichloropropene

Concen: 1.999 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

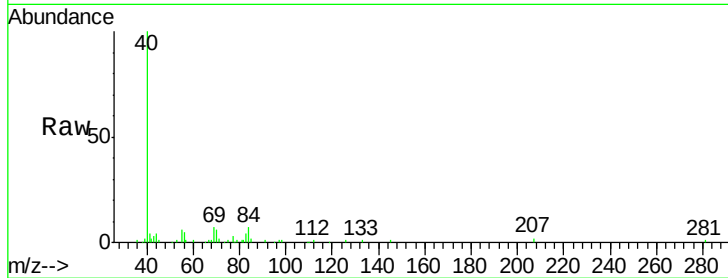
ClientSampled :

Tot Ion: 75 Resp: 400

Ion Ratio Lower Upper

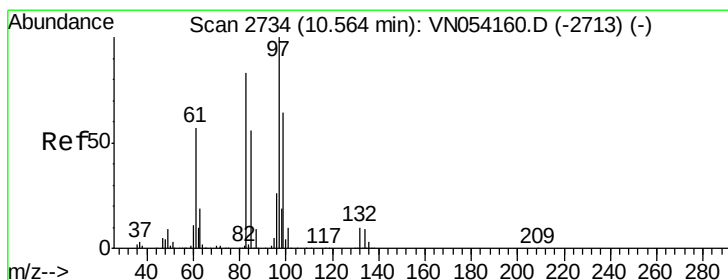
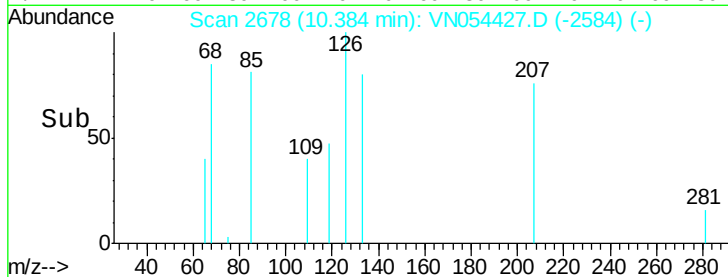
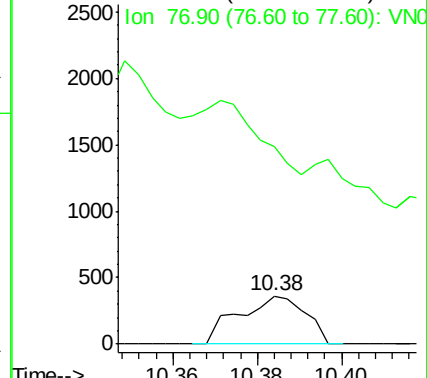
75 100

77 67.2 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#55

1,1,2-Trichloroethane

Concen: 2.864 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. -0.04 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Tgt Ion: 97 Resp: 48797

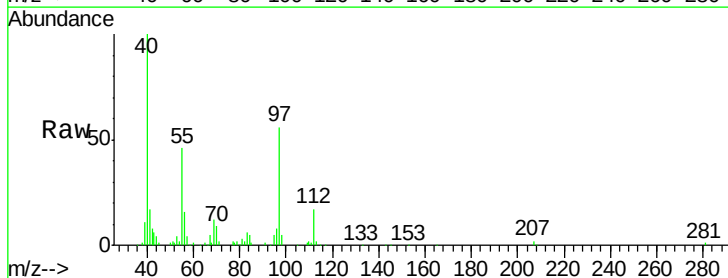
Ion Ratio Lower Upper

97 100

83 9.8 66.6 100.0#

85 2.2 44.4 66.6#

99 0.0 50.8 76.2#

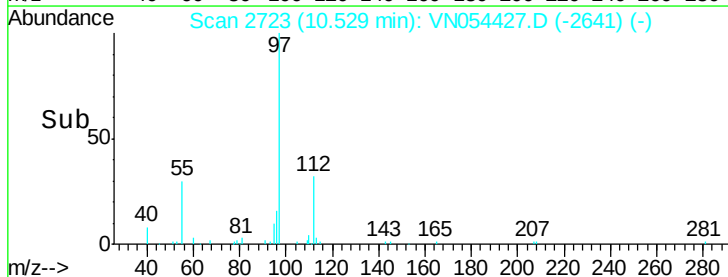
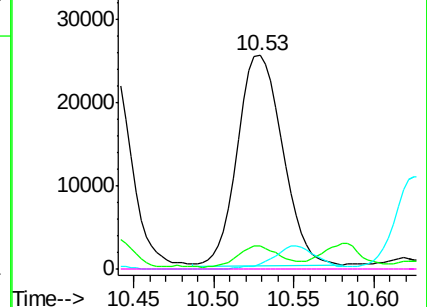


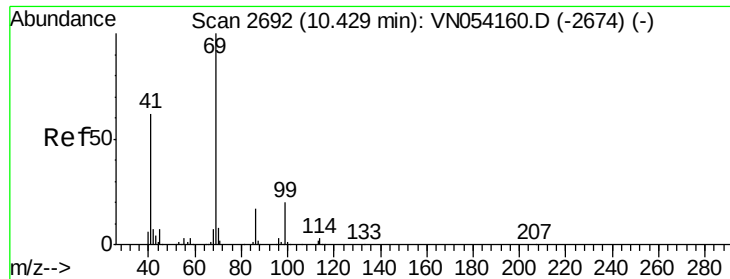
Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0





#56

Ethyl methacrylate

Concen: 0.839 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

ClientSampled :

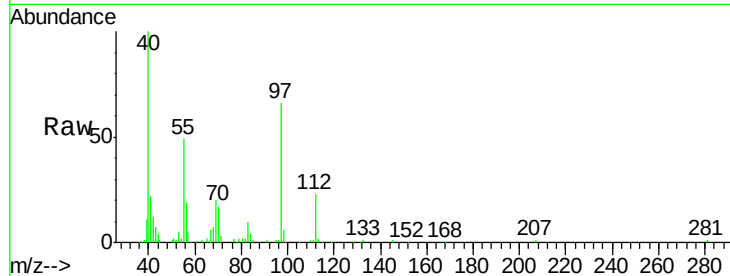
Tot Ion: 69 Resp: 17038

Ion Ratio Lower Upper

69 100

41 144.6 49.4 74.2#

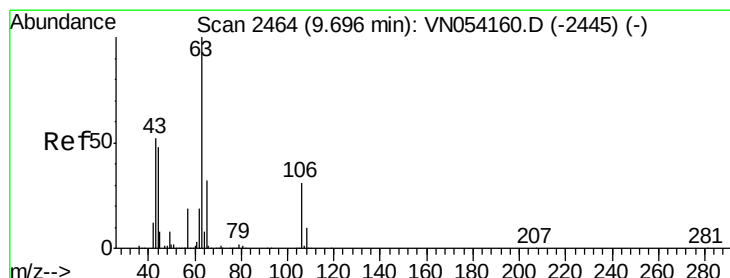
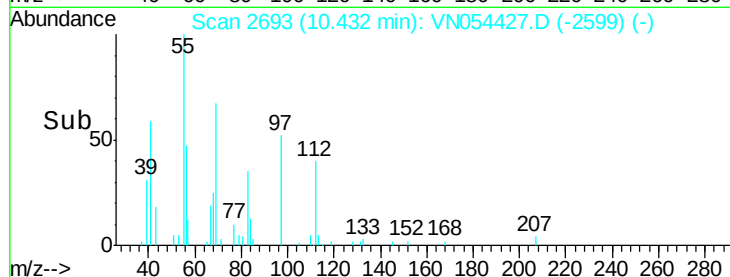
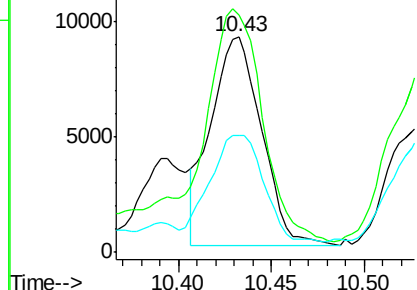
39 55.2 28.3 42.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 16.834 ug/l

RT: 9.71 min Scan# 2469

Delta R.T. 0.02 min

Lab File: VN054427.D

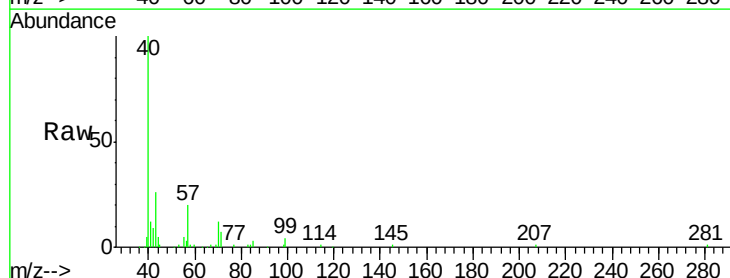
Acq: 19 Mar 2019 7:19

Tgt Ion: 63 Resp: 61

Ion Ratio Lower Upper

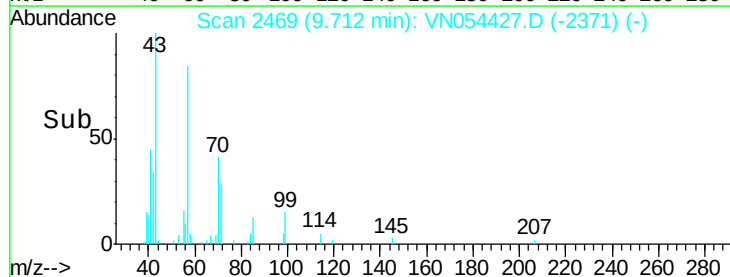
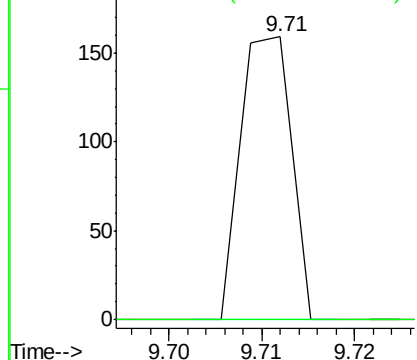
63 100

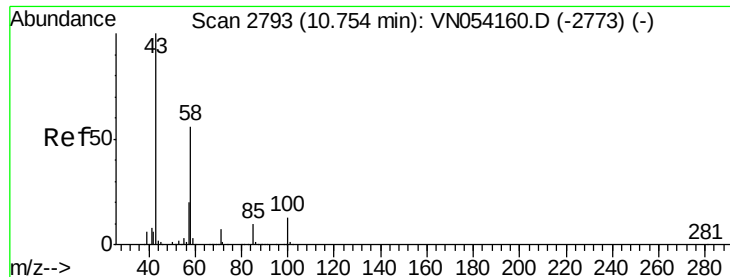
106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

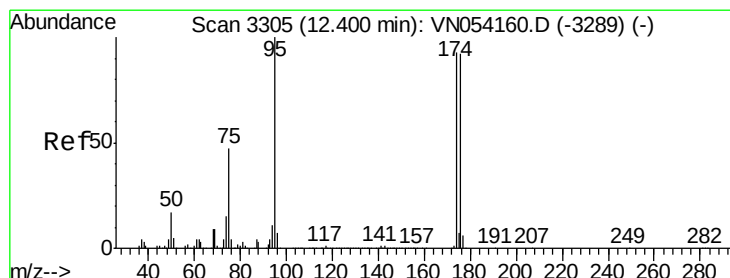
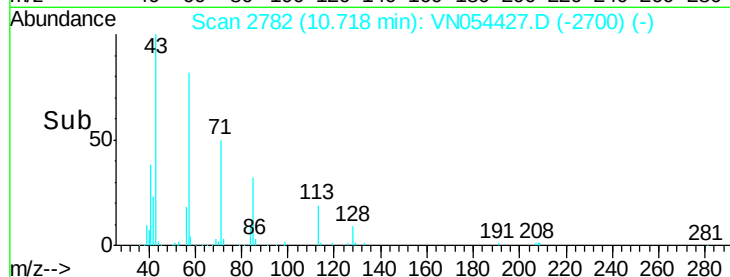
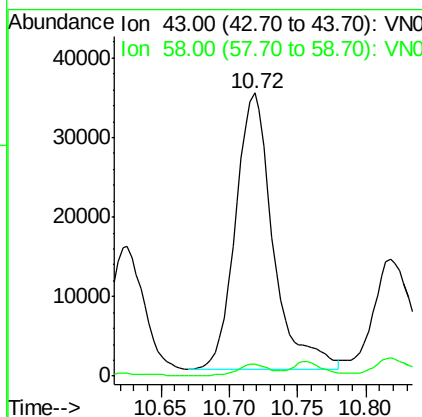
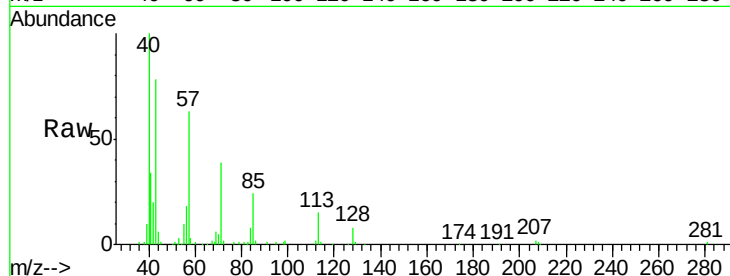




#59  
2-Hexanone  
Concen: 7.299 ug/l  
RT: 10.72 min Scan# 2782  
Delta R.T. -0.04 min  
Lab File: VN054427.D  
Acq: 19 Mar 2019 7:19

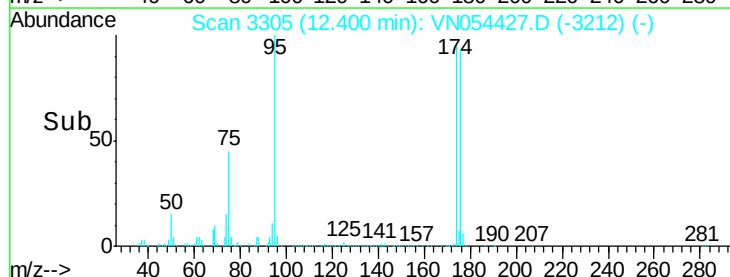
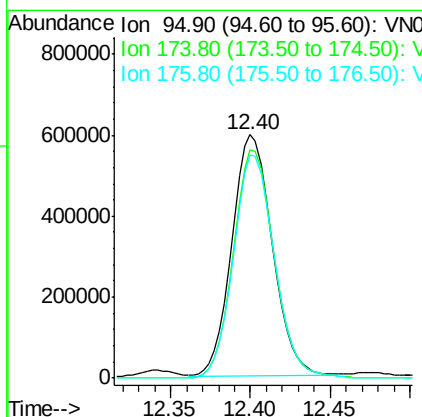
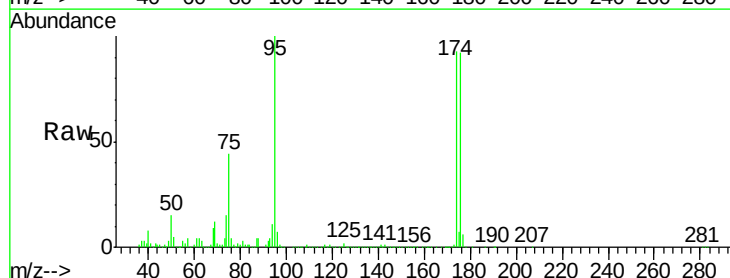
Instrument :  
MSVOA\_N  
ClientSampleId :

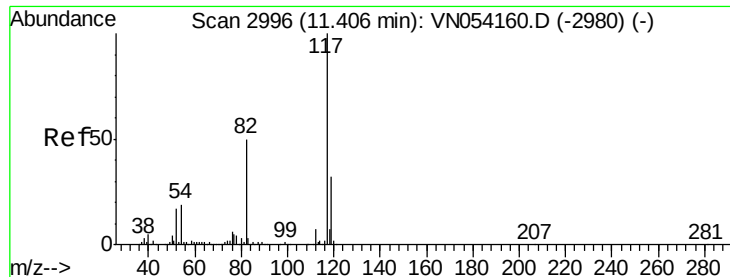
Tot Ion: 43 Resp: 66677  
Ion Ratio Lower Upper  
43 100  
58 3.9 28.0 83.9#



#62  
4-Bromofluorobenzene  
Concen: 44.077 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.00 min  
Lab File: VN054427.D  
Acq: 19 Mar 2019 7:19

Tgt Ion: 95 Resp: 1026019  
Ion Ratio Lower Upper  
95 100  
174 95.6 0.0 191.0  
176 94.0 0.0 187.4

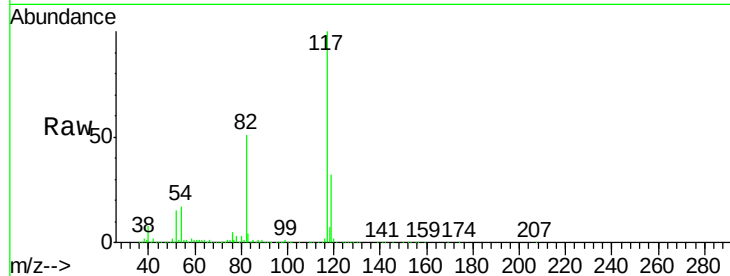




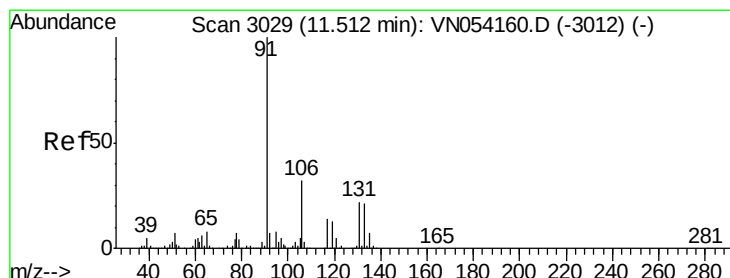
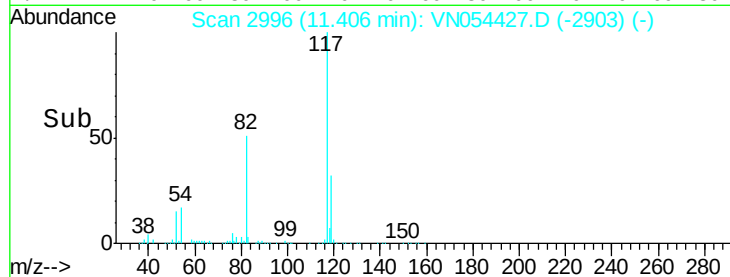
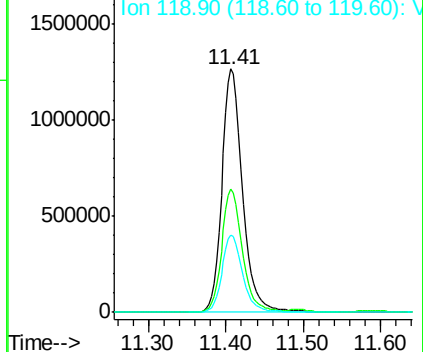
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN054427.D  
Acq: 19 Mar 2019 7:19

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:117 Resp: 2349631  
Ion Ratio Lower Upper  
117 100  
82 50.3 40.0 60.0  
119 31.8 25.8 38.6

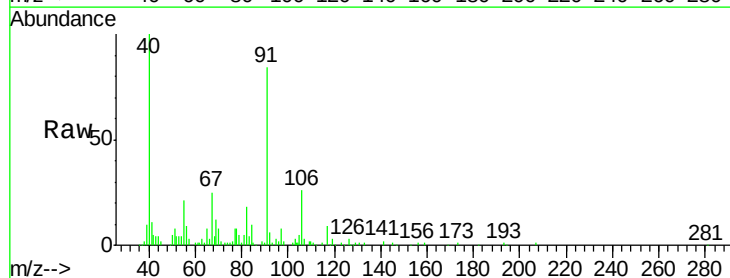


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

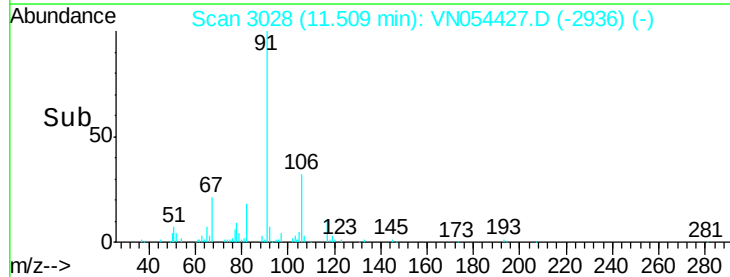
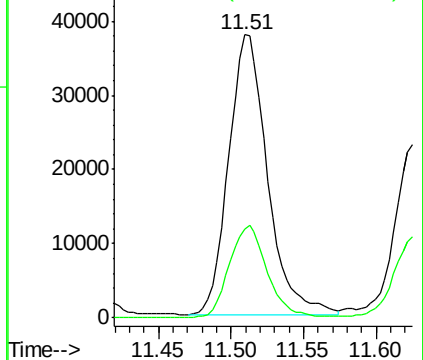


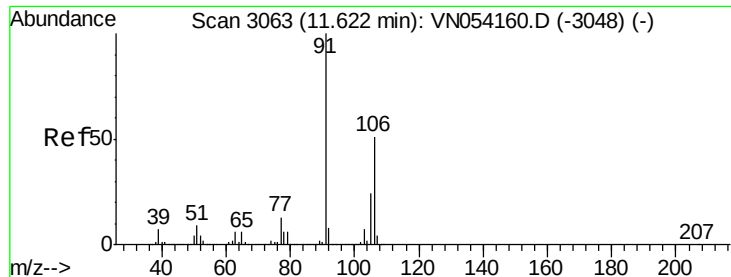
#67  
Ethyl Benzene  
Concen: 0.821 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. -0.00 min  
Lab File: VN054427.D  
Acq: 19 Mar 2019 7:19

Tgt Ion: 91 Resp: 70180  
Ion Ratio Lower Upper  
91 100  
106 31.7 25.5 38.3



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





#68

m/p-Xvlenes

Concen: 0.621 ug/l

RT: 11.63 min Scan# 3065

Delta R.T. 0.01 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

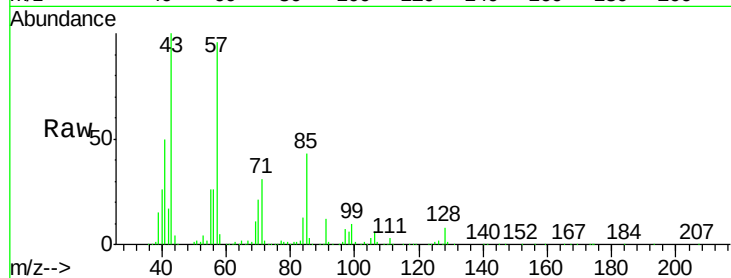
ClientSampleId :

Tot Ion:106 Resp: 20772

Ion Ratio Lower Upper

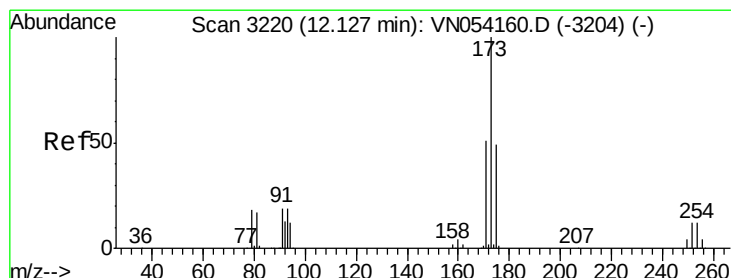
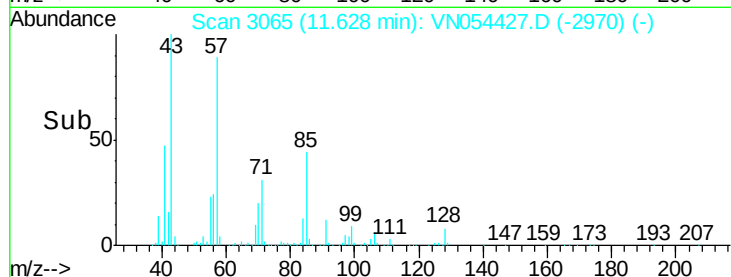
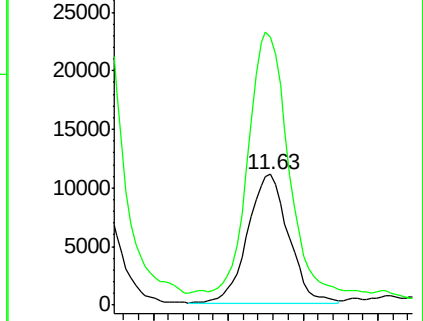
106 100

91 201.8 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#71

Bromoform

Concen: 2.365 ug/l

RT: 12.12 min Scan# 3217

Delta R.T. -0.01 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

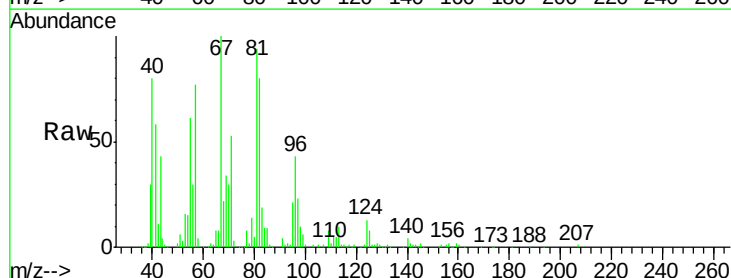
Tgt Ion:173 Resp: 222

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

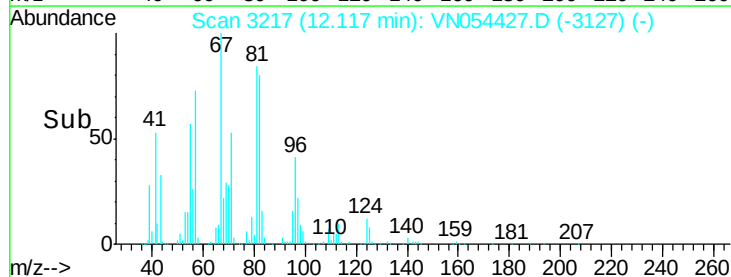
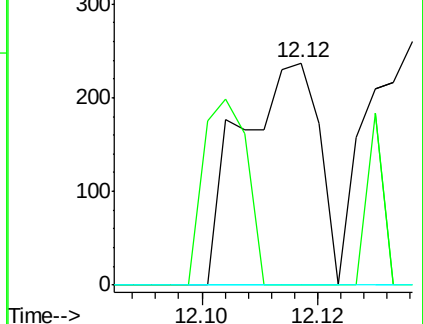
254 0.0 0.1 0.1#

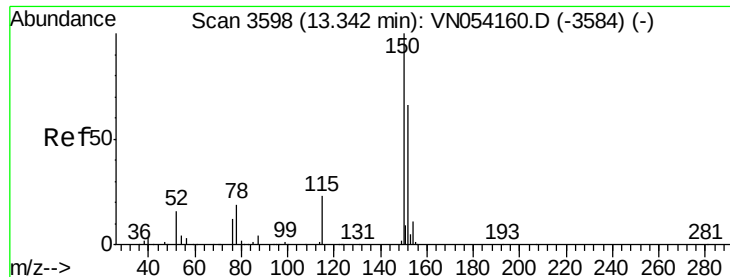


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



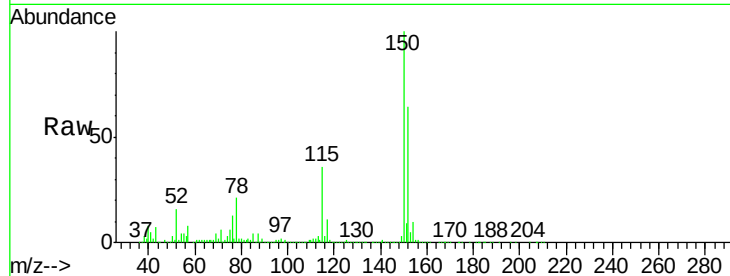


#72

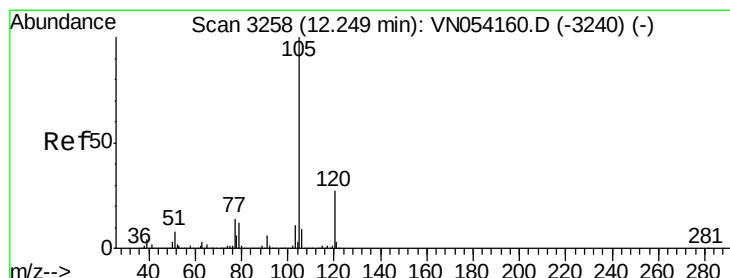
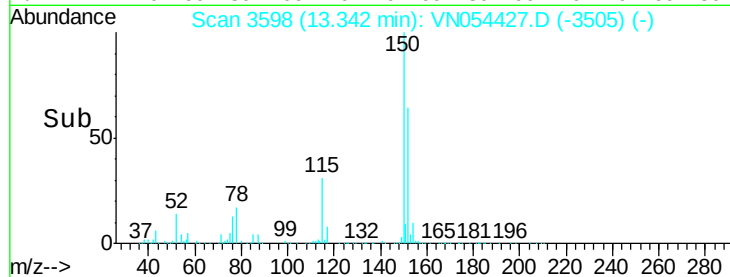
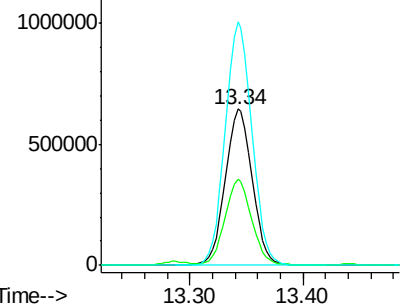
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. 0.00 min  
Lab File: VN054427.D  
Acq: 19 Mar 2019 7:19

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:152 Resp: 1069533  
Ion Ratio Lower Upper  
152 100  
115 54.7 27.2 81.6  
150 154.9 0.0 349.2



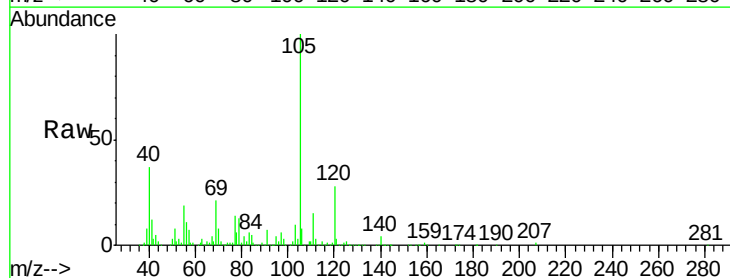
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



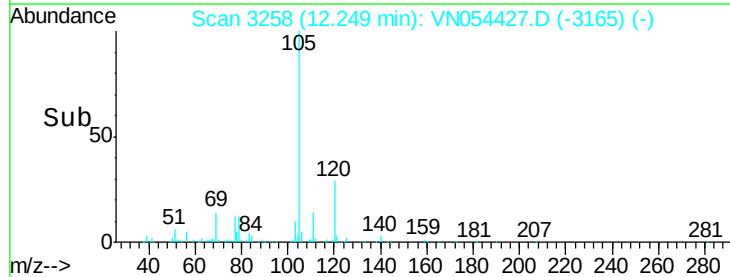
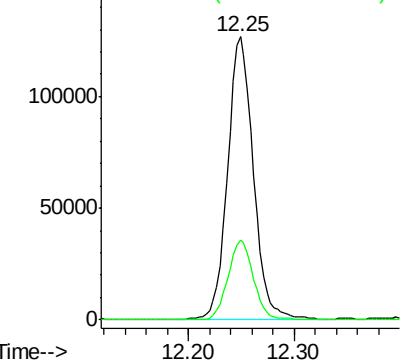
#73

Isopropylbenzene  
Concen: 2.485 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. 0.00 min  
Lab File: VN054427.D  
Acq: 19 Mar 2019 7:19

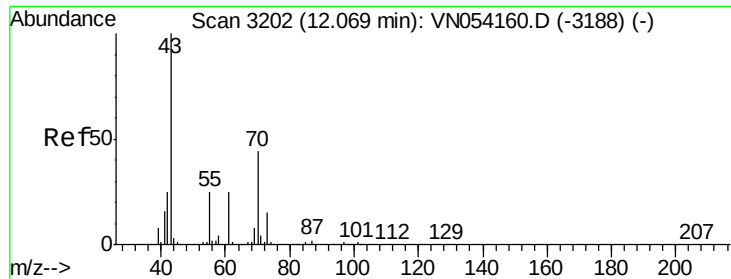
Tgt Ion:105 Resp: 212660  
Ion Ratio Lower Upper  
105 100  
120 28.3 13.8 41.3



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







#74

N-amyl acetate

Concen: 5.129 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

ClientSampled :

Tot Ion: 43 Resp: 97416

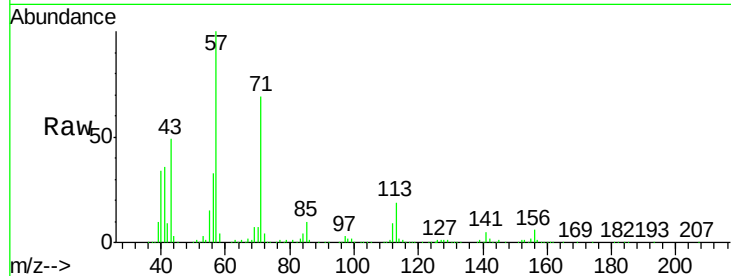
Ion Ratio Lower Upper

43 100

70 10.3 35.4 53.0#

55 9.0 19.8 29.6#

61 0.0 19.8 29.6#

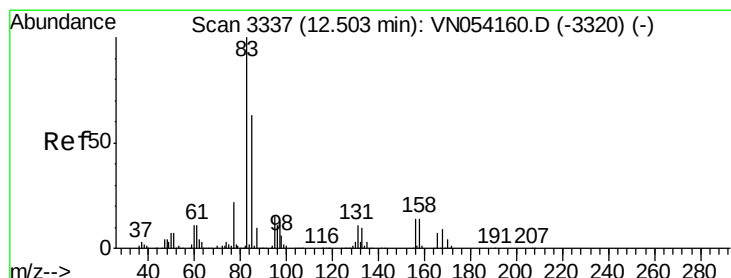
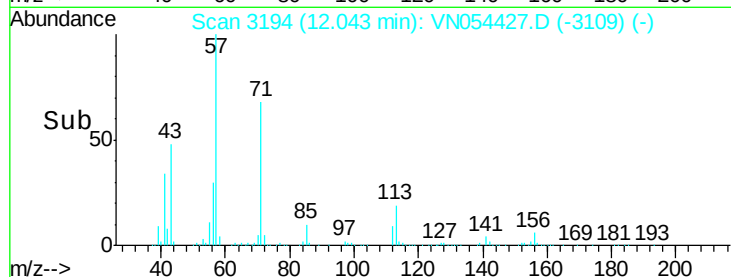
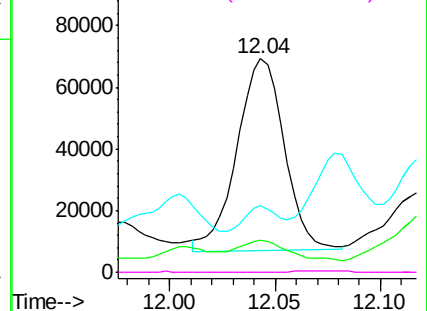


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: 0.629 ug/l

RT: 12.45 min Scan# 3321

Delta R.T. -0.05 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

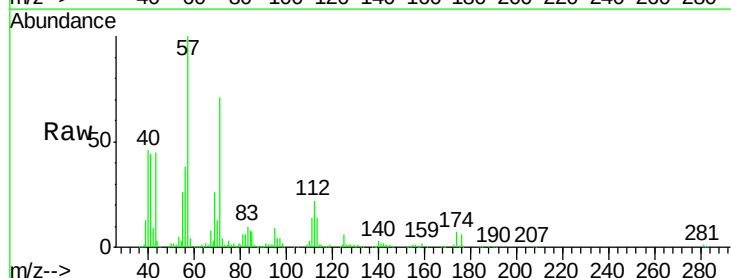
Tgt Ion: 83 Resp: 11475

Ion Ratio Lower Upper

83 100

131 1.7 5.8 17.4#

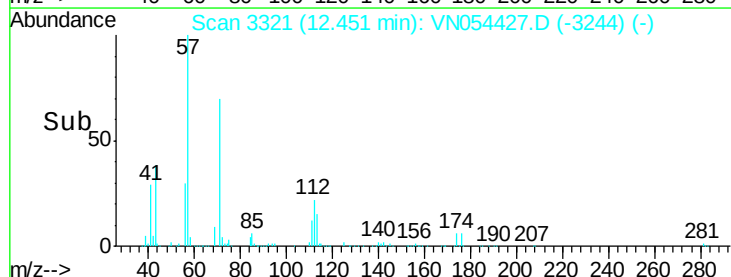
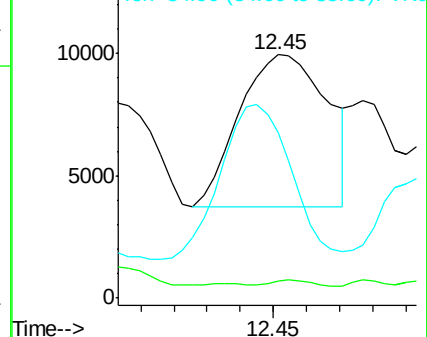
85 95.8 32.2 96.6

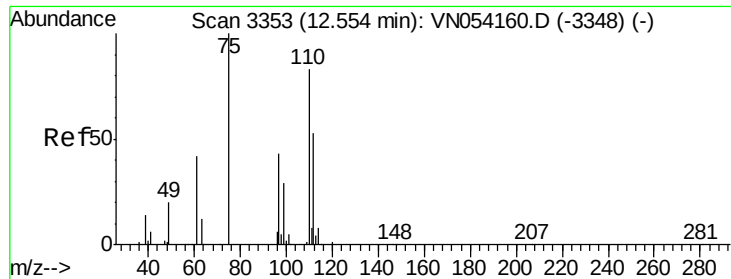


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

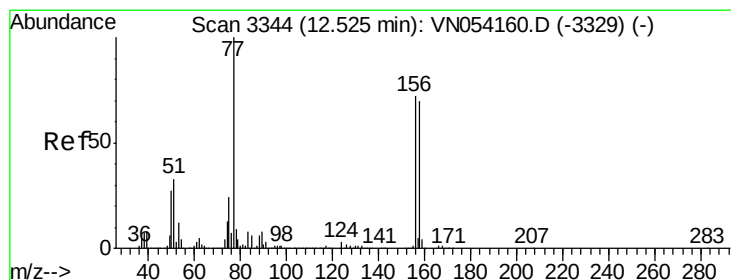
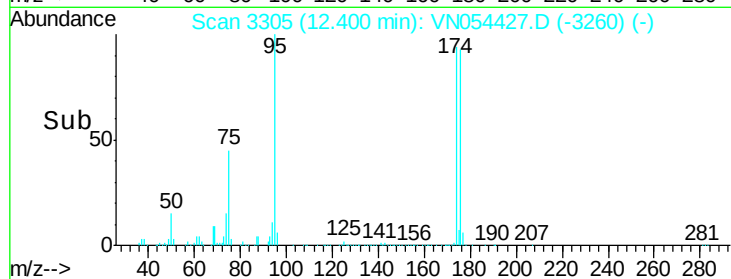
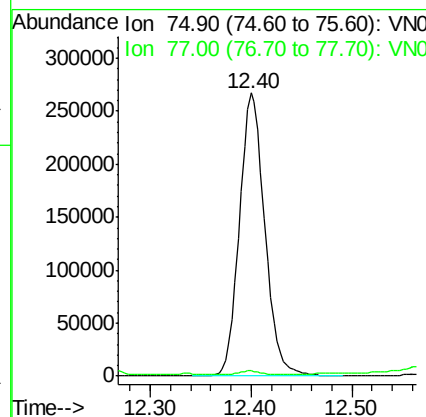
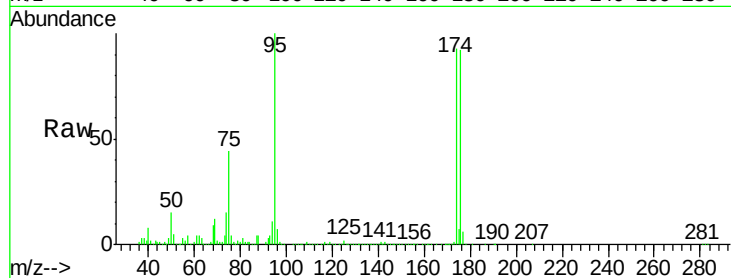




#76  
 1,2,3-Trichloropropane  
 Concen: 29.707 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. -0.15 min  
 Lab File: VN054427.D  
 Acq: 19 Mar 2019 7:19

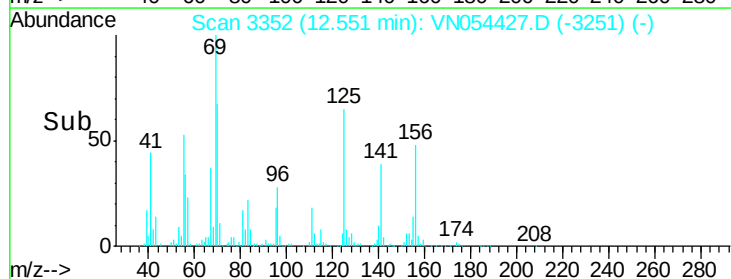
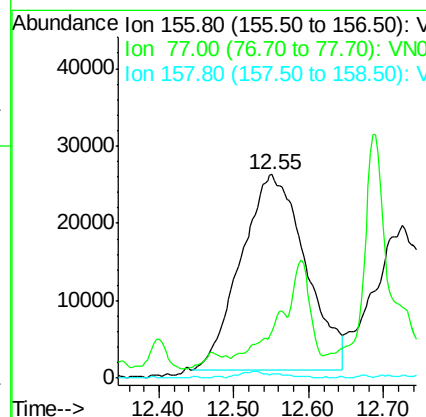
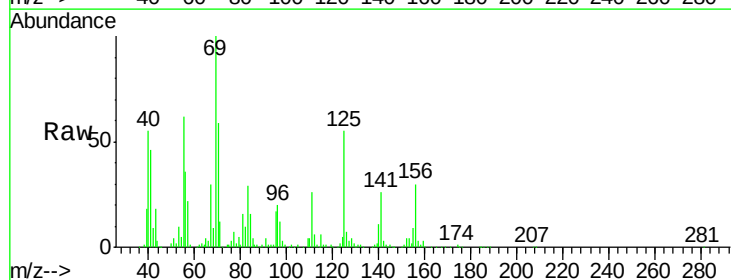
Instrument :  
 MSVOA\_N  
 ClientSampleId :

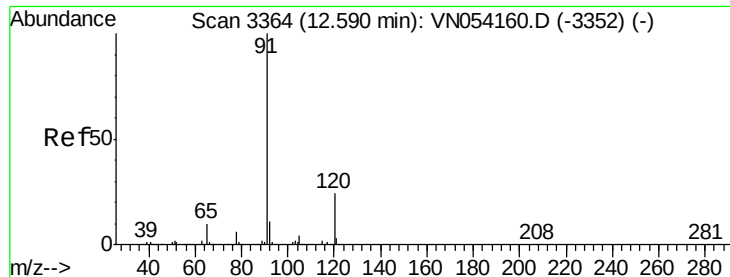
Tot Ion: 75 Resp: 467231  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 0.0 0.0#



#77  
 Bromobenzene  
 Concen: 6.722 ug/l  
 RT: 12.55 min Scan# 3352  
 Delta R.T. 0.03 min  
 Lab File: VN054427.D  
 Acq: 19 Mar 2019 7:19

Tgt Ion: 156 Resp: 152198  
 Ion Ratio Lower Upper  
 156 100  
 77 8.1 81.5 244.4#  
 158 0.7 49.0 147.2#





#78

n-propylbenzene

Concen: 6.058 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

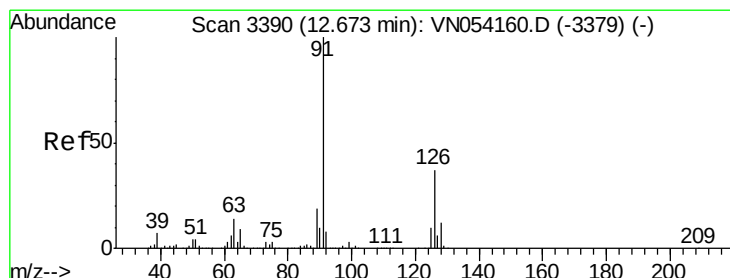
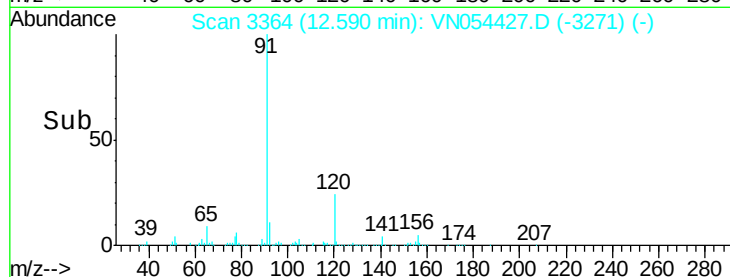
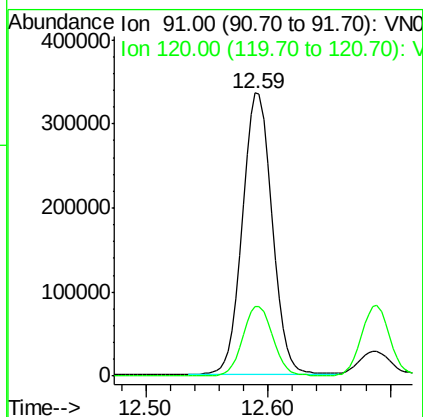
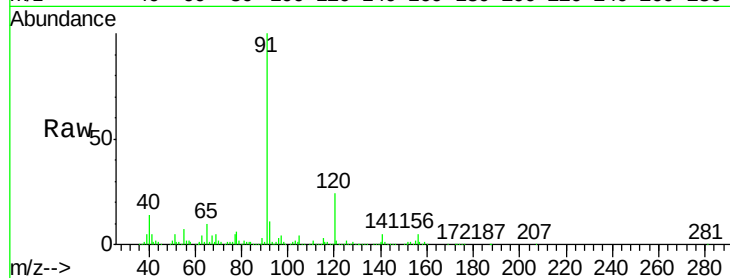
ClientSampled :

Tot Ion: 91 Resp: 562497

Ion Ratio Lower Upper

91 100

120 25.0 12.3 36.9



#79

2-Chlorotoluene

Concen: 0.905 ug/l

RT: 12.69 min Scan# 3394

Delta R.T. 0.01 min

Lab File: VN054427.D

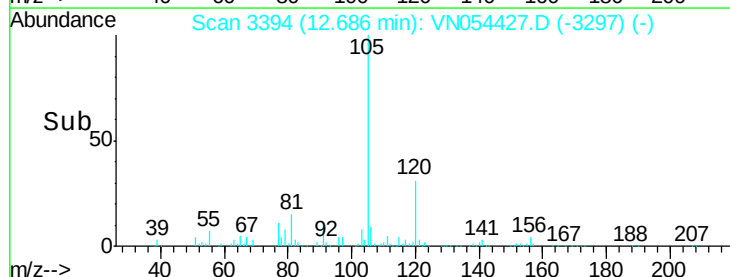
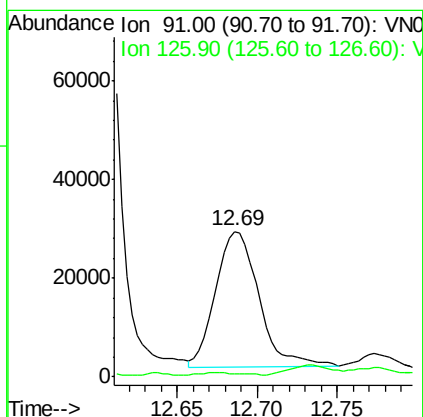
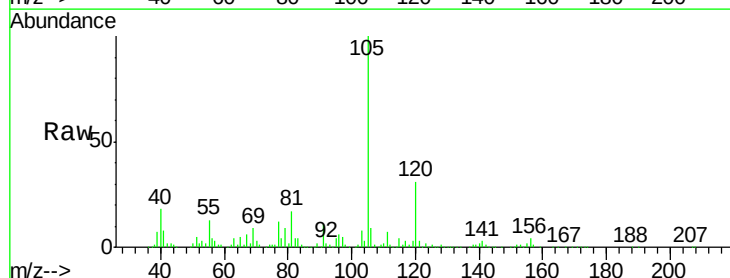
Acq: 19 Mar 2019 7:19

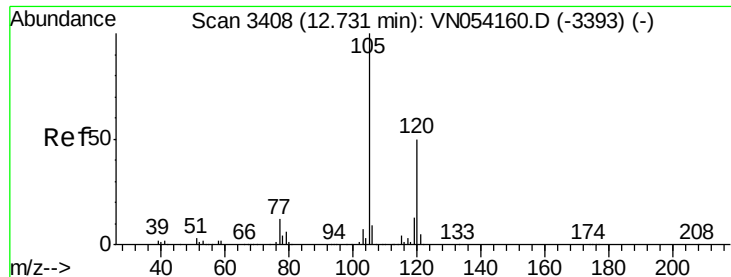
Tgt Ion: 91 Resp: 50524

Ion Ratio Lower Upper

91 100

126 2.1 18.7 56.1#





#80

1,3,5-Trimethylbenzene

Concen: 6.233 ug/l

RT: 12.69 min Scan# 3395

Delta R.T. -0.04 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

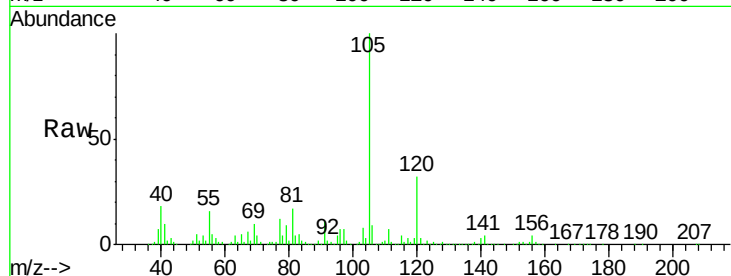
ClientSampleId :

Tot Ion:105 Resp: 443632

Ion Ratio Lower Upper

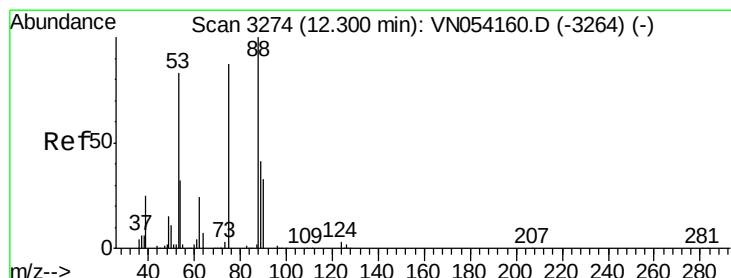
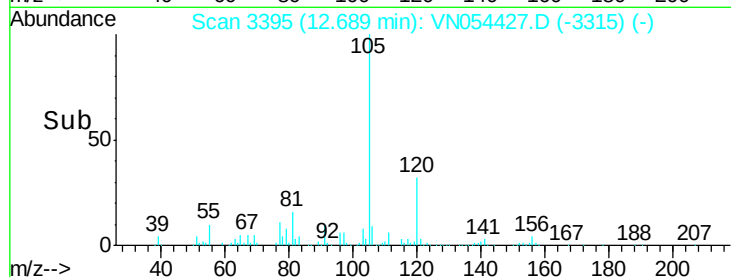
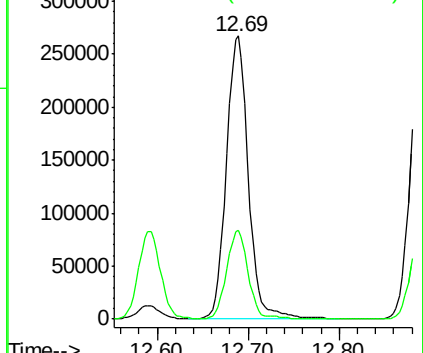
105 100

120 30.9 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 101.552 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

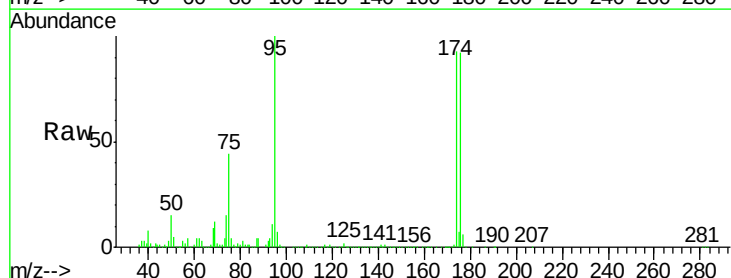
Tgt Ion: 75 Resp: 467231

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

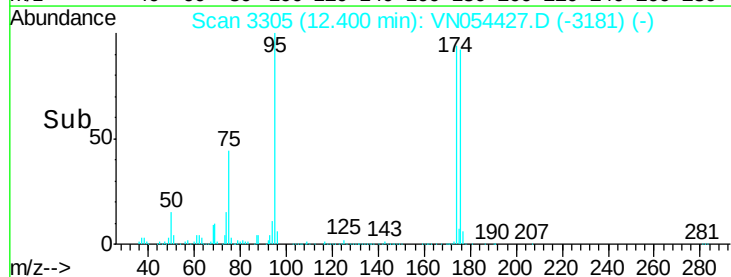
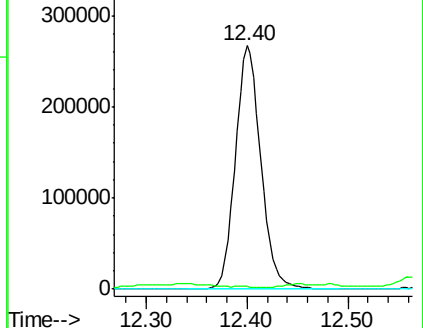
89 0.0 39.2 58.8#

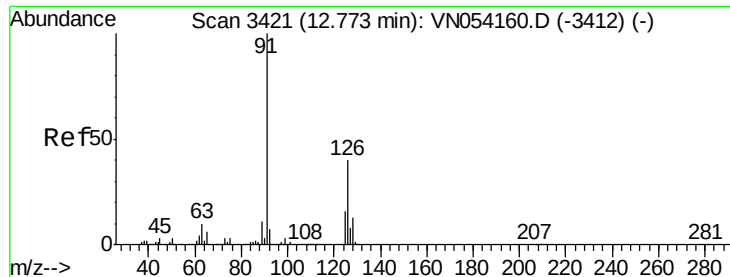


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 0.906 ug/l

RT: 12.69 min Scan# 3394

Delta R.T. -0.09 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

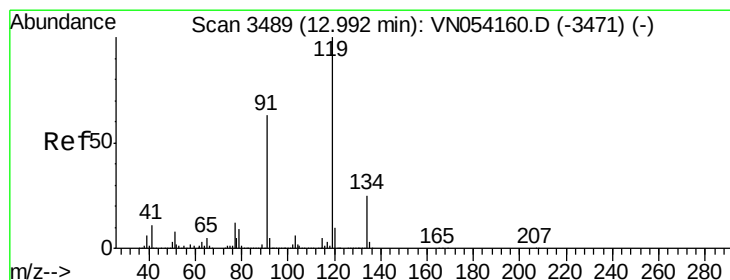
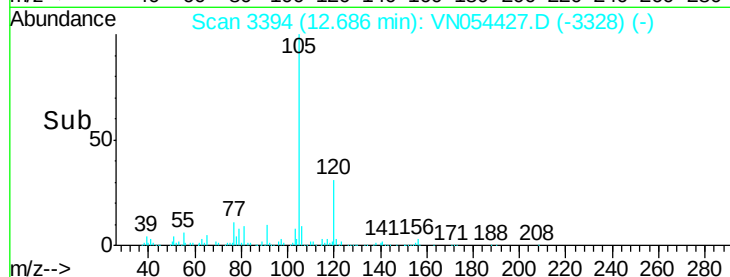
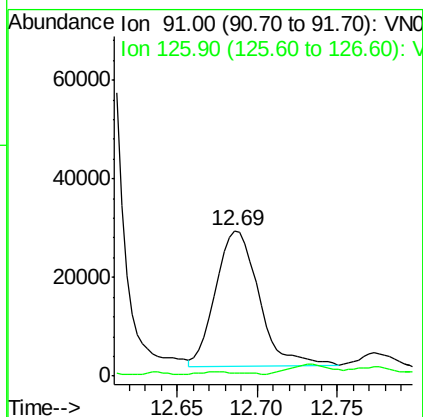
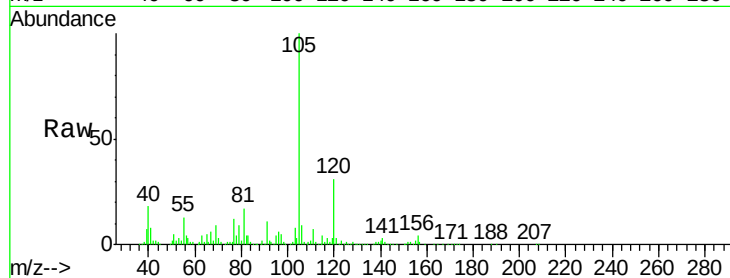
ClientSampled :

Tot Ion: 91 Resp: 50524

Ion Ratio Lower Upper

91 100

126 2.2 18.1 54.1#



#83

tert-Butylbenzene

Concen: 0.257 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

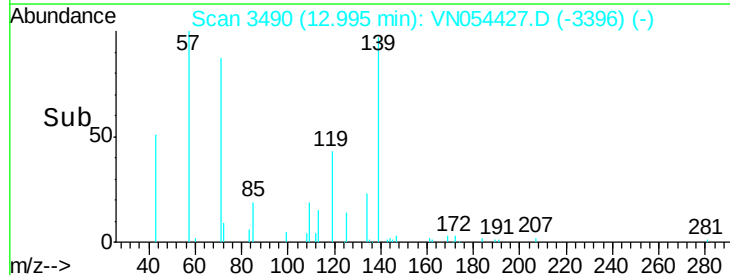
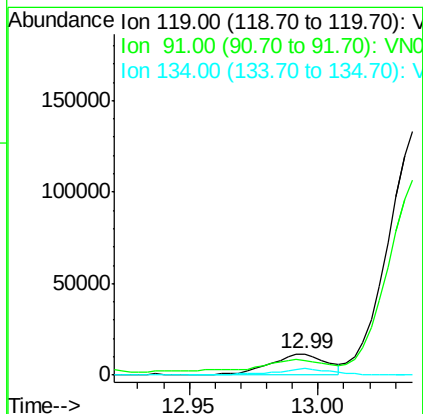
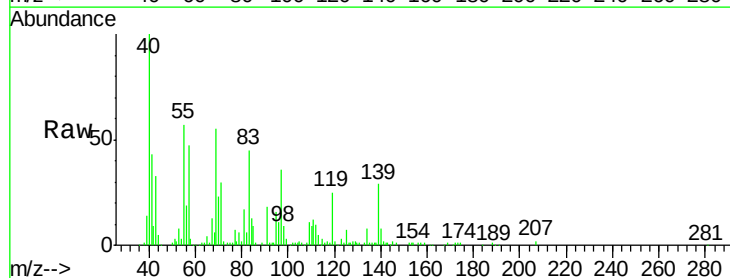
Tgt Ion: 119 Resp: 16829

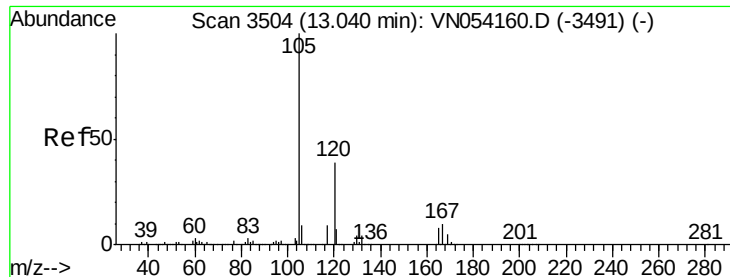
Ion Ratio Lower Upper

119 100

91 49.5 30.9 92.8

134 33.4 13.2 39.6

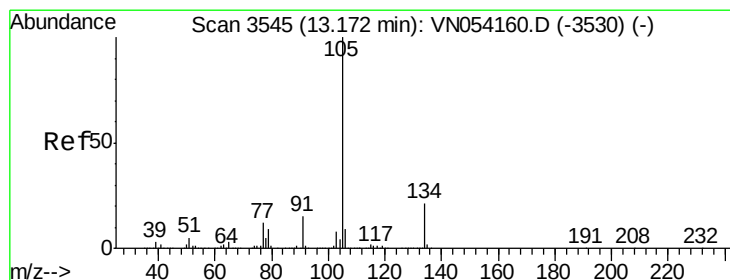
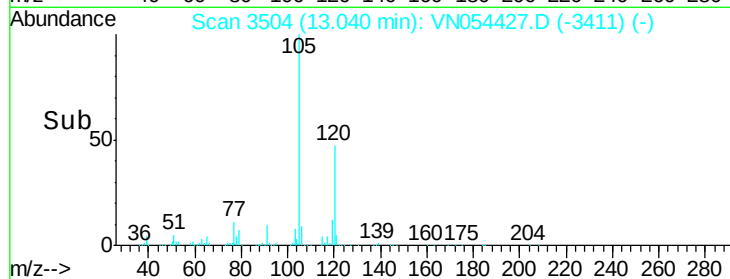
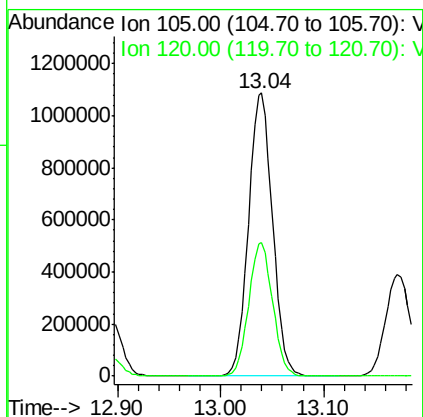
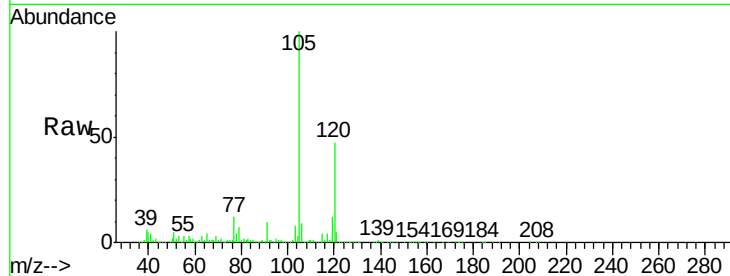




#84  
 1,2,4-Trimethylbenzene  
 Concen: 25.007 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. 0.00 min  
 Lab File: VN054427.D  
 Acq: 19 Mar 2019 7:19

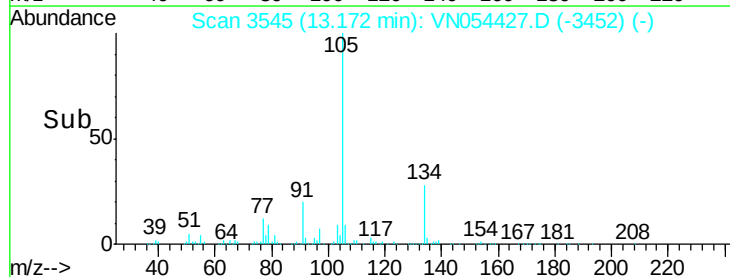
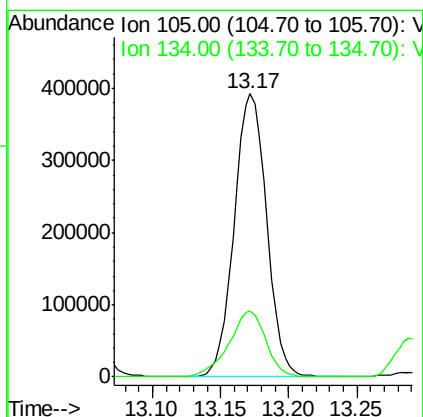
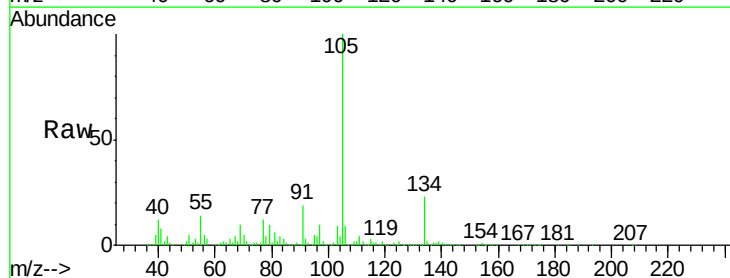
Instrument :  
 MSVOA\_N  
 ClientSampled :

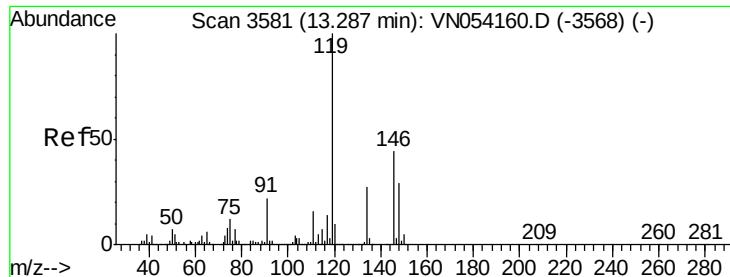
Tot Ion:105 Resp: 1746151  
 Ion Ratio Lower Upper  
 105 100  
 120 47.0 23.4 70.3



#85  
 sec-Butylbenzene  
 Concen: 7.593 ug/l  
 RT: 13.17 min Scan# 3545  
 Delta R.T. 0.00 min  
 Lab File: VN054427.D  
 Acq: 19 Mar 2019 7:19

Tgt Ion:105 Resp: 645124  
 Ion Ratio Lower Upper  
 105 100  
 134 26.6 10.7 32.1

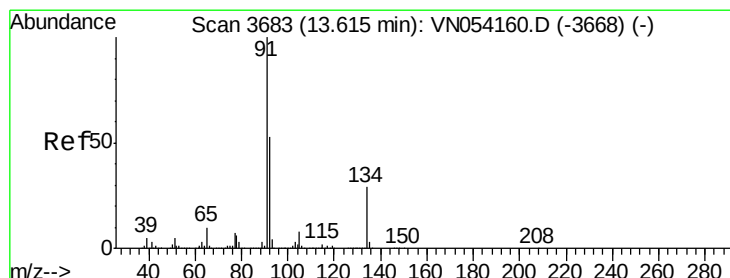
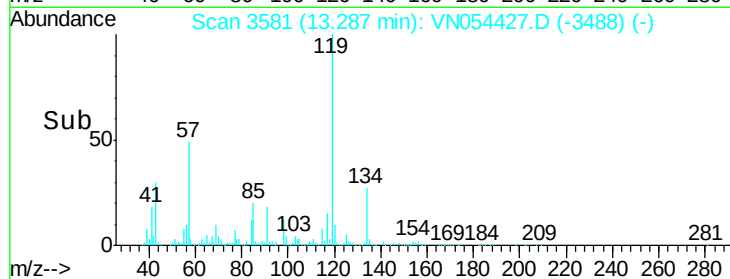
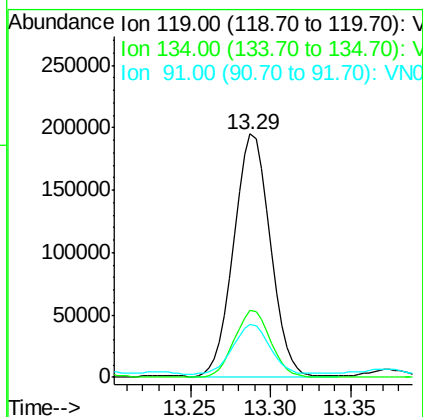
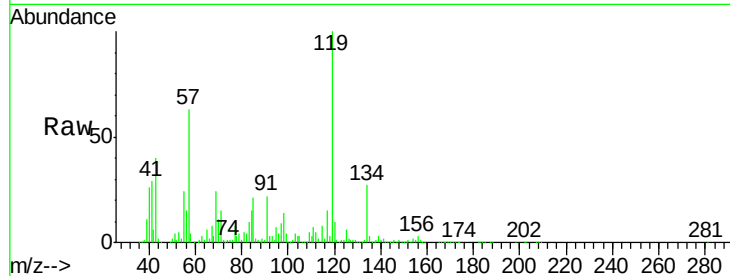




#86  
 p-Isopropyltoluene  
 Concen: 4.042 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. 0.00 min  
 Lab File: VN054427.D  
 Acq: 19 Mar 2019 7:19

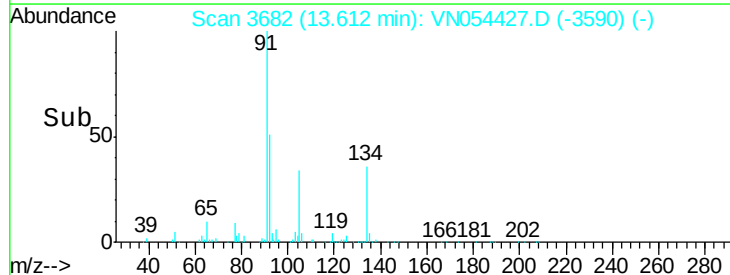
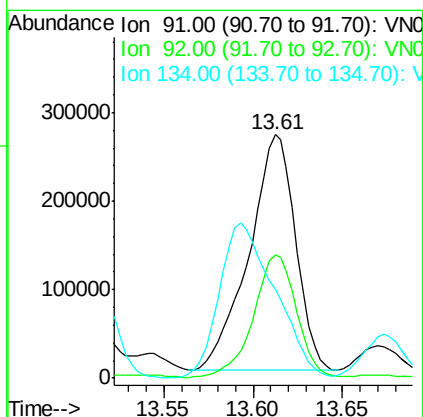
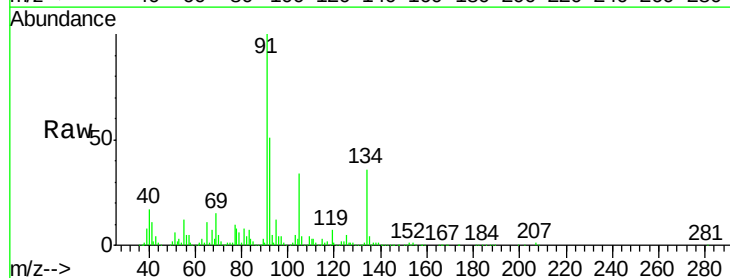
Instrument :  
 MSVOA\_N  
 ClientSampled :

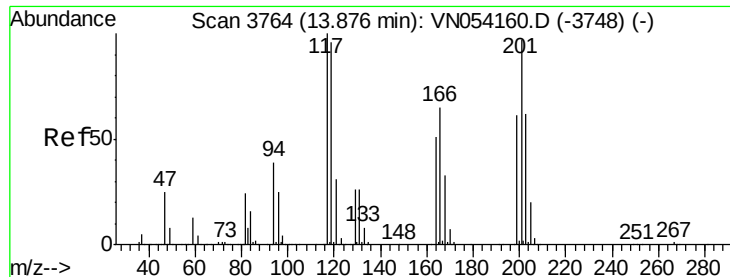
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.1  | 13.6  | 40.8  |
| 91      | 20.7  | 11.1  | 33.3  |



#89  
 n-Butylbenzene  
 Concen: 8.586 ug/l  
 RT: 13.61 min Scan# 3682  
 Delta R.T. -0.00 min  
 Lab File: VN054427.D  
 Acq: 19 Mar 2019 7:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 47.7  | 26.2  | 78.6  |
| 134     | 77.4  | 14.3  | 42.9  |





#90

Hexachloroethane

Concen: 13.300 ug/l

RT: 13.89 min Scan# 3767

Delta R.T. 0.01 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

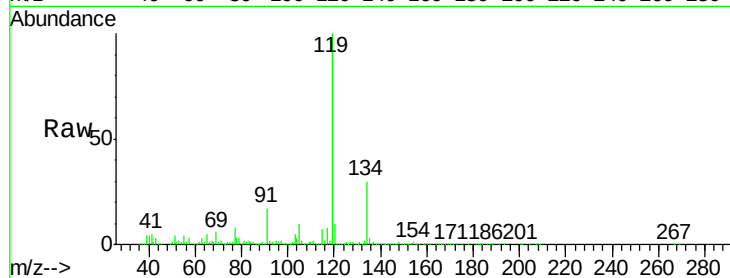
ClientSampled :

Tot Ion:117 Resp: 164152

Ion Ratio Lower Upper

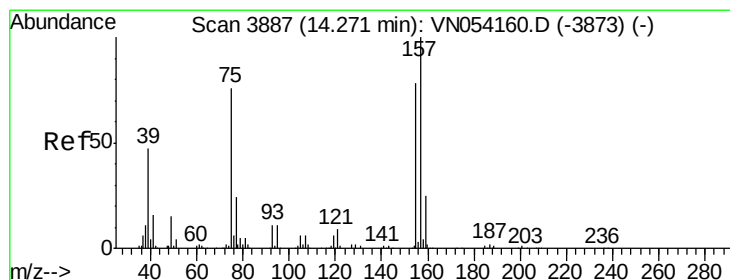
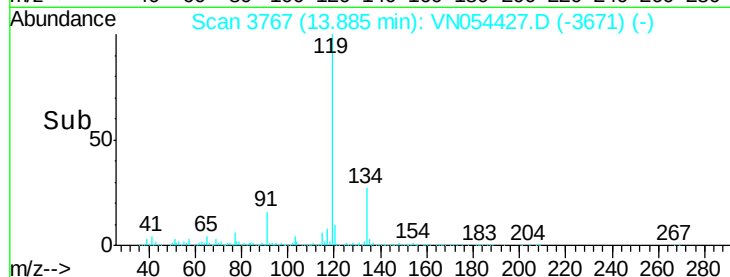
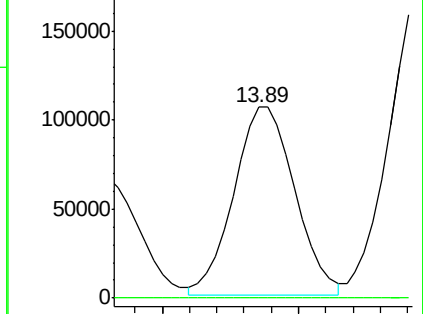
117 100

201 0.3 48.1 144.4#



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: 1.090 ug/l

RT: 14.29 min Scan# 3894

Delta R.T. 0.02 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

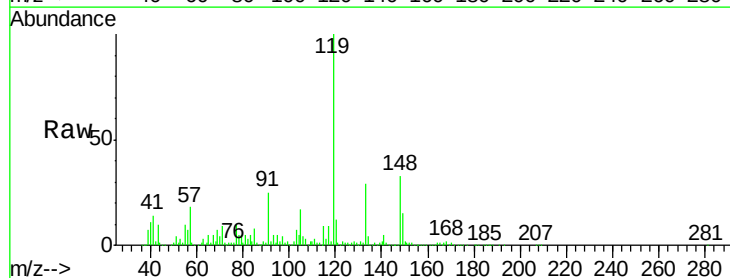
Tgt Ion: 75 Resp: 3074

Ion Ratio Lower Upper

75 100

155 30.0 50.1 150.3#

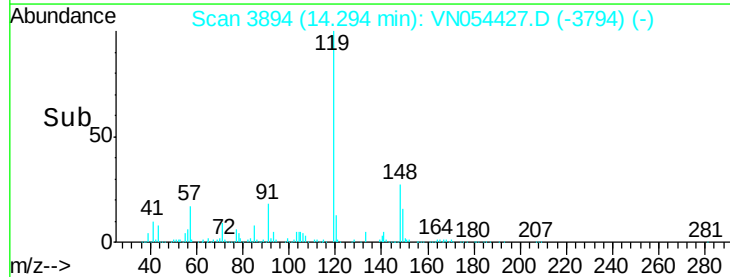
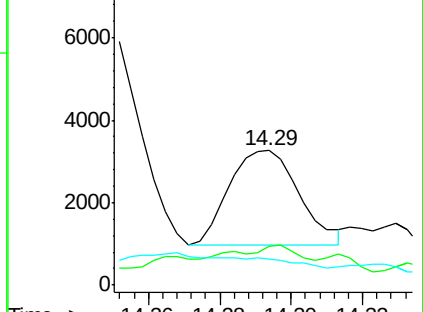
157 0.0 63.1 189.3#



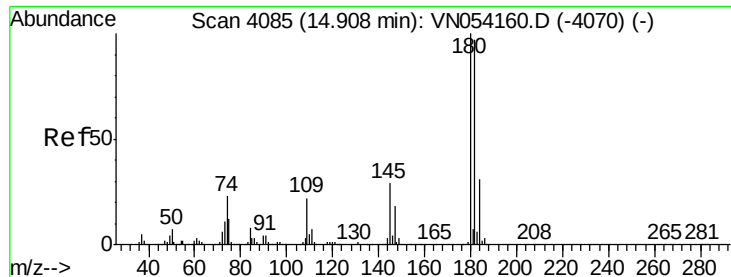
Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



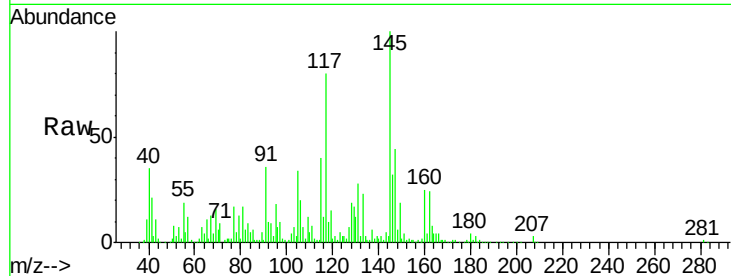




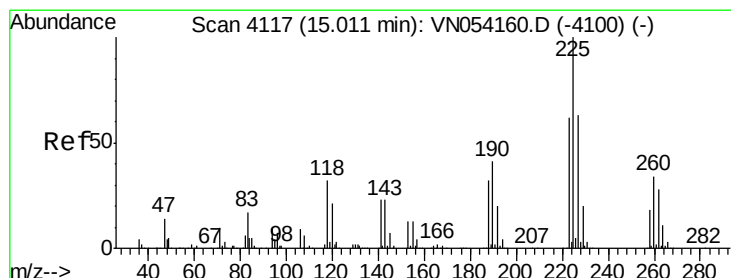
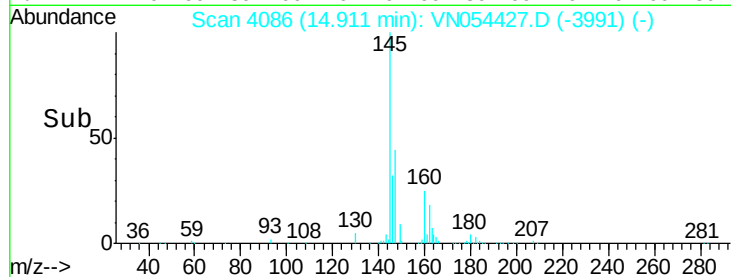
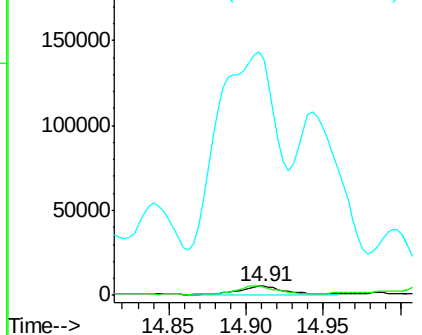
#93  
 1,2,4-Trichlorobenzene  
 Concen: 2.951 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. 0.00 min  
 Lab File: VN054427.D  
 Acq: 19 Mar 2019 7:19

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion:180 Resp: 10300  
 Ion Ratio Lower Upper  
 180 100  
 182 82.7 48.0 144.2  
 145 3540.7 14.2 42.8#

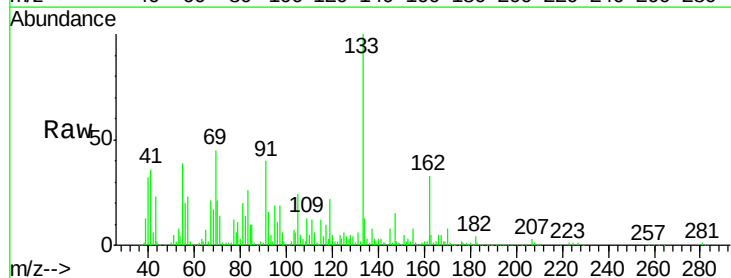


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

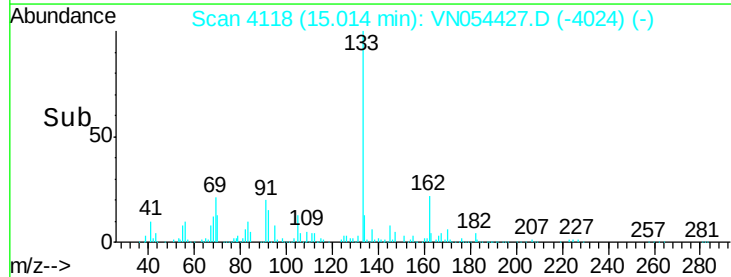
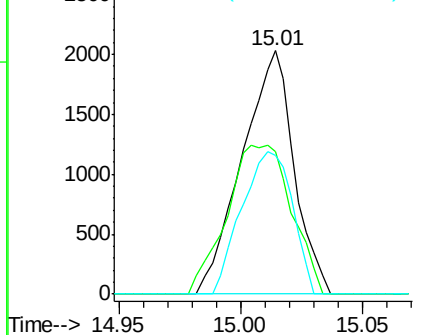


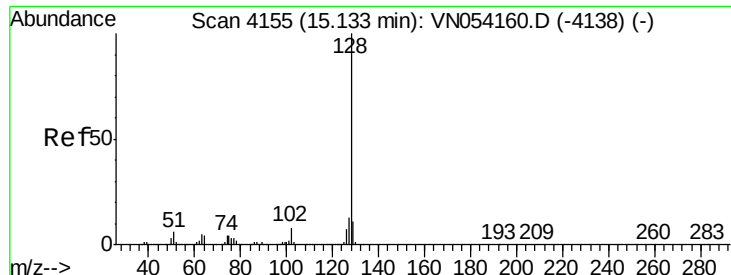
#94  
 Hexachlorobutadiene  
 Concen: 0.211 ug/l  
 RT: 15.01 min Scan# 4118  
 Delta R.T. 0.00 min  
 Lab File: VN054427.D  
 Acq: 19 Mar 2019 7:19

Tgt Ion:225 Resp: 2995  
 Ion Ratio Lower Upper  
 225 100  
 223 76.3 31.1 93.5  
 227 57.2 31.9 95.9



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





#95

Naphthalene

Concen: 11.610 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054427.D

Acq: 19 Mar 2019 7:19

Instrument :

MSVOA\_N

ClientSampleId :

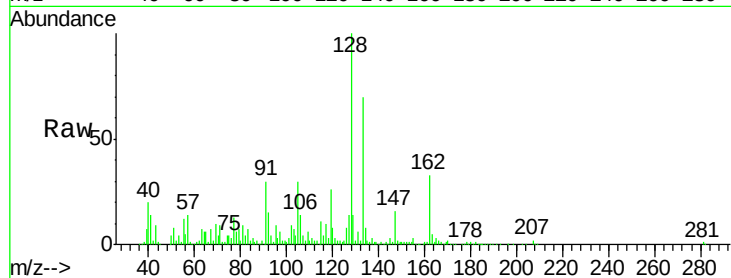
Tot Ion:128 Resp: 410318

Ion Ratio Lower Upper

128 100

127 15.0 10.1 15.1

129 8.4 8.7 13.1#



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

