

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012219\  
 Data File : VN053519.D  
 Acq On : 22 Jan 2019 15:09  
 Operator : JC/SP  
 Sample : K1215-08  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP03-20190118

Quant Time: Jan 23 02:55:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 16 03:10:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 833540   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1298700  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1212597  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 513354   | 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   | 422370   | 51.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.54% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 386658   | 52.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.34% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1599904  | 51.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.08% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 539470   | 49.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.16%  |          |

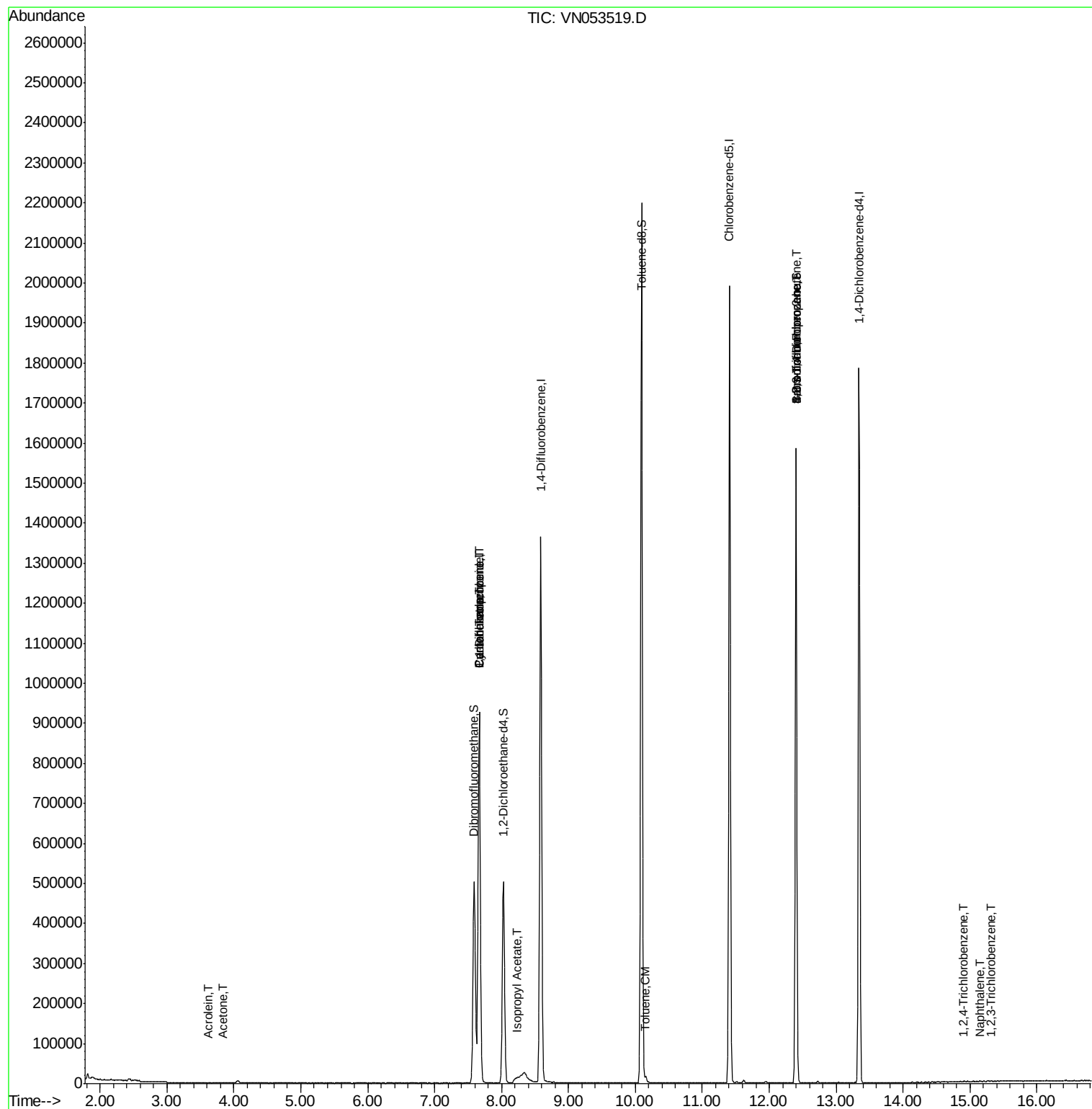
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 13) Acrolein                   | 3.61  | 56   | 31       | 22.773 | ug/l # | 1      |
| 16) Acetone                    | 3.82  | 43   | 1805     | 0.934  | ug/l   | 90     |
| 31) Cyclohexane                | 7.66  | 56   | 13875    | 0.738  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 53200    | 4.498  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 69892    | 6.242  | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.22  | 43   | 12142    | 0.992  | ug/l # | 51     |
| 52) Toluene                    | 10.16 | 92   | 5547     | 0.249  | ug/l   | 100    |
| 71) Bromoform                  | 12.40 | 173  | 3856     | 0.627  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 251719   | 37.209 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 251719   | 91.929 | ug/l # | 15     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 588      | 2.845  | ug/l # | 73     |
| 95) Naphthalene                | 15.14 | 128  | 1154     | 4.024  | ug/l # | 69     |
| 96) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 493      | 3.992  | ug/l # | 63     |

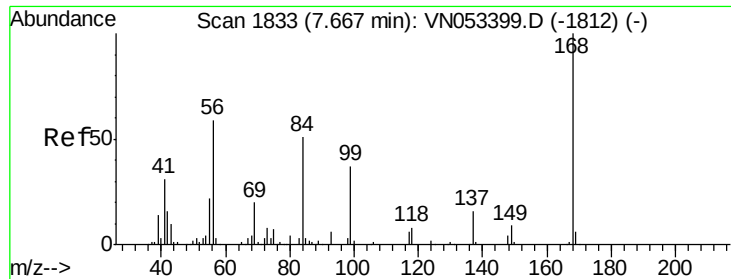
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN012219\  
Data File : VN053519.D  
Acq On : 22 Jan 2019 15:09  
Operator : JC/SP  
Sample : K1215-08  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
DUP03-20190118

Quant Time: Jan 23 02:55:00 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N011519W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 16 03:10:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053519.D

Acq: 22 Jan 2019 15:09

Instrument :

MSVOA\_N

ClientSampleId :

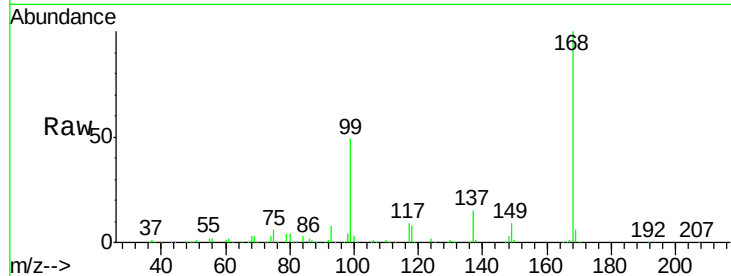
DUP03-20190118

Tot Ion:168 Resp: 833540

Ion Ratio Lower Upper

168 100

99 48.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053519.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053519.D (-1740) (-)

7.67

400000

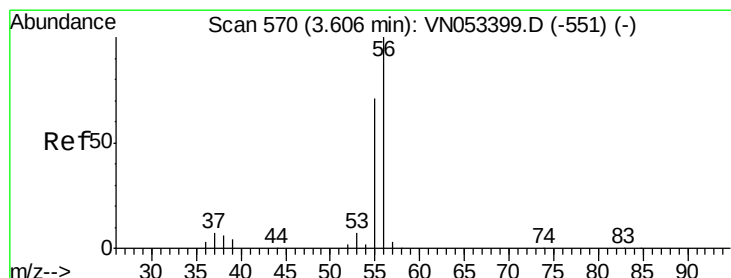
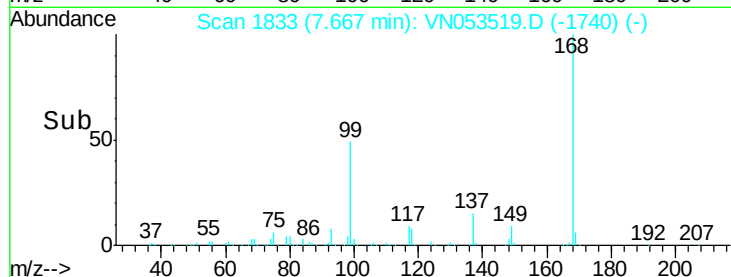
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 22.773 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053519.D

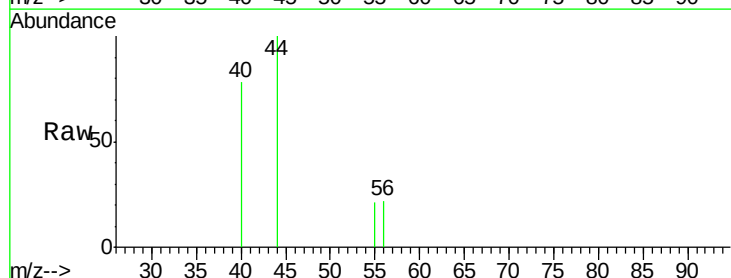
Acq: 22 Jan 2019 15:09

Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

56 100

55 193.5 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN053519.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN053519.D (-477) (-)

3.61

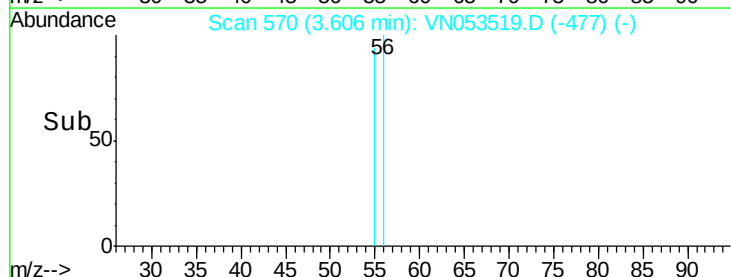
150

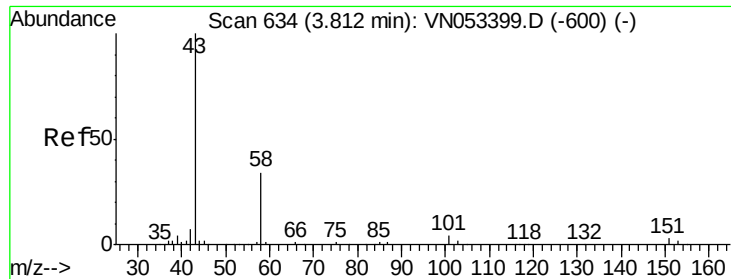
100

50

0

Time-->





#16

Acetone

Concen: 0.934 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053519.D

Acq: 22 Jan 2019 15:09

Instrument :

MSVOA\_N

ClientSampleId :

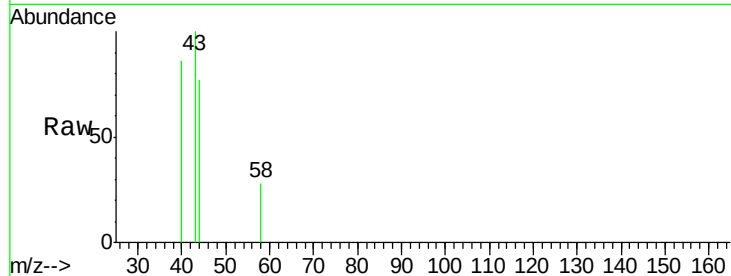
DUP03-20190118

Tot Ion: 43 Resp: 1805

Ion Ratio Lower Upper

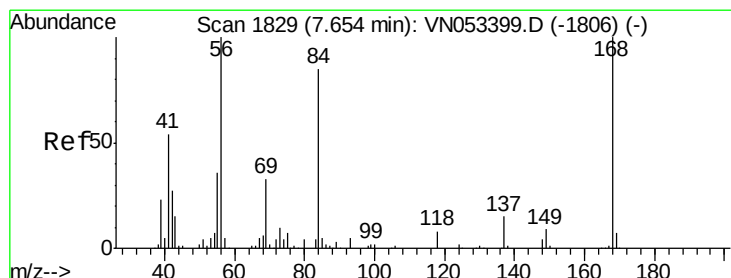
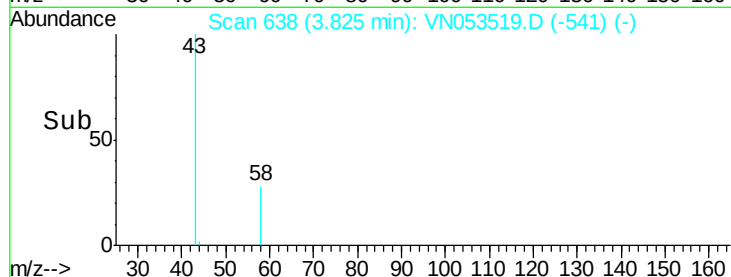
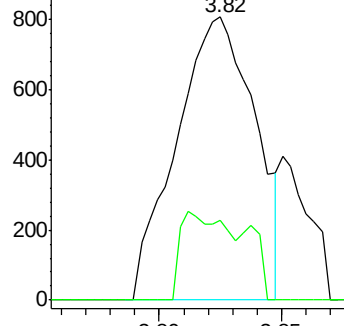
43 100

58 28.4 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#31

Cyclohexane

Concen: 0.738 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053519.D

Acq: 22 Jan 2019 15:09

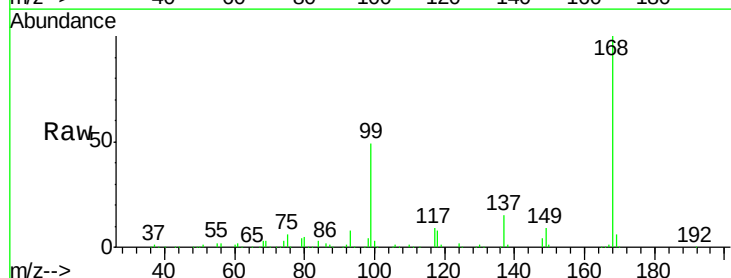
Tgt Ion: 56 Resp: 13875

Ion Ratio Lower Upper

56 100

69 187.8 26.4 39.6#

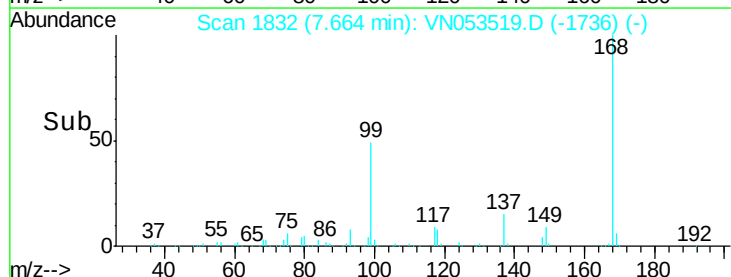
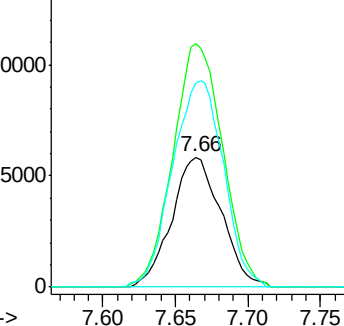
84 157.2 67.9 101.9#

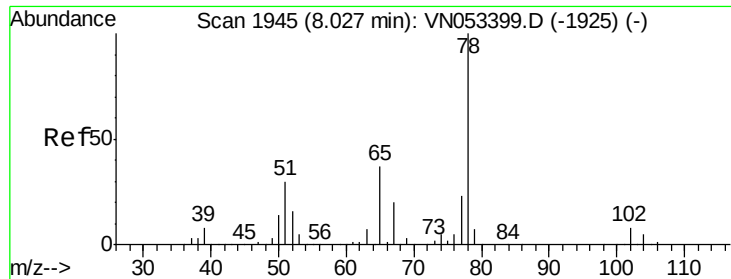


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

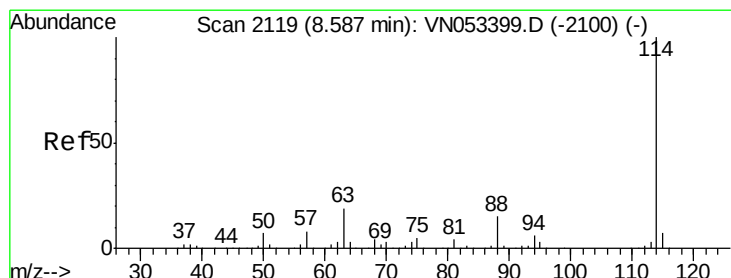
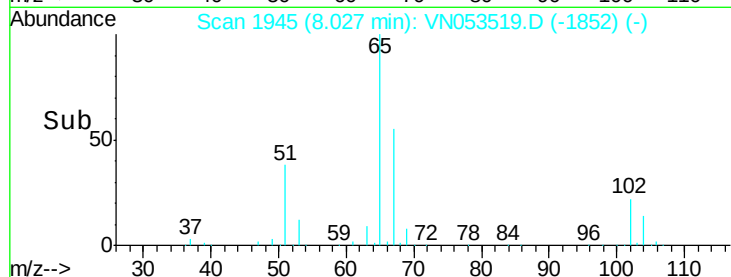
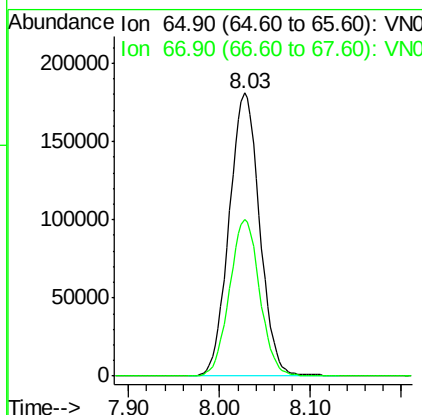
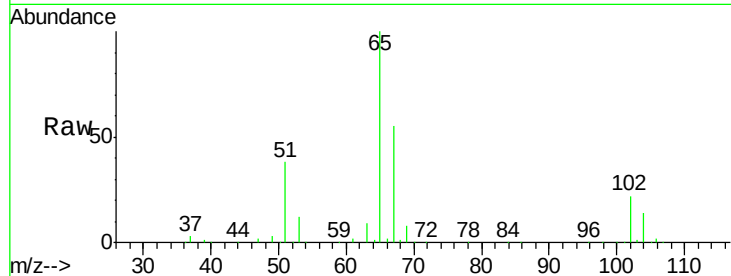




#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN053519.D  
 Acq: 22 Jan 2019 15:09

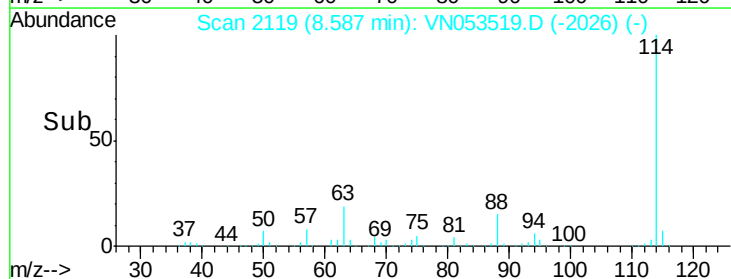
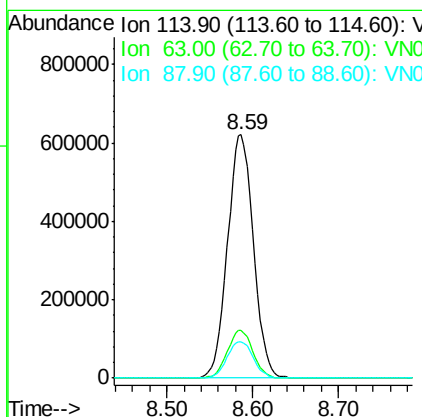
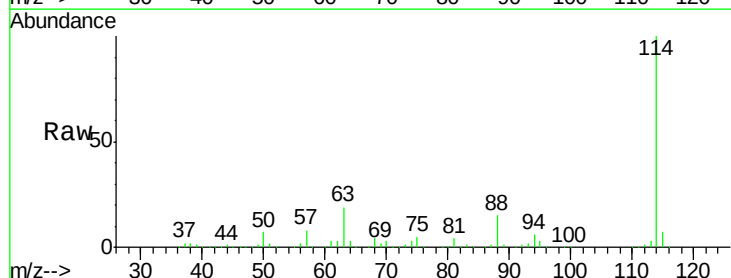
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP03-20190118

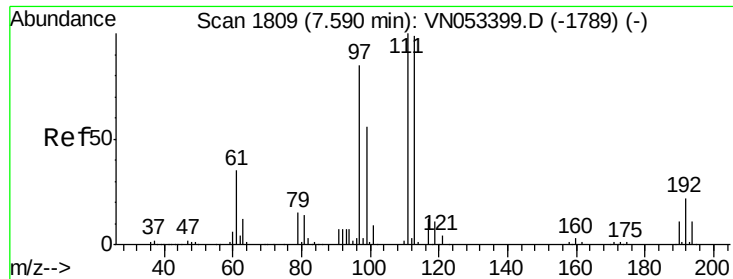
Tot Ion: 65 Resp: 422370  
 Ion Ratio Lower Upper  
 65 100  
 67 54.8 0.0 111.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN053519.D  
 Acq: 22 Jan 2019 15:09

Tgt Ion: 114 Resp: 1298700  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 38.6  
 88 15.0 0.0 30.4

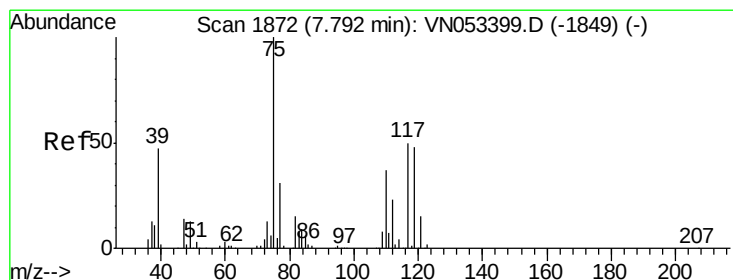
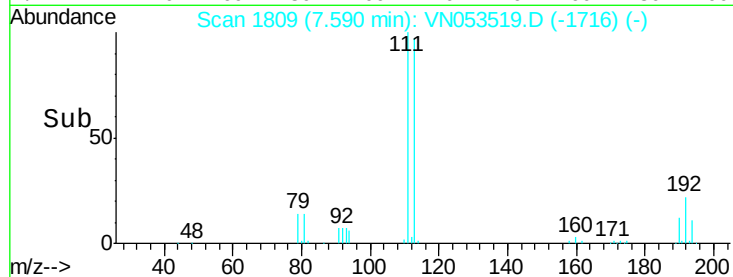
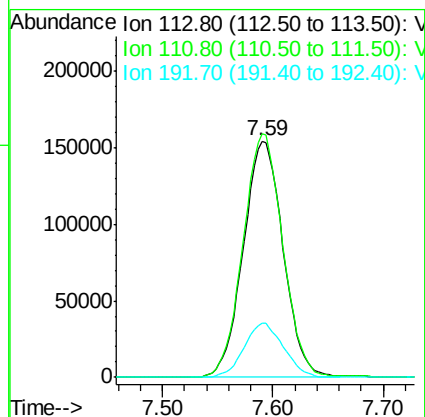
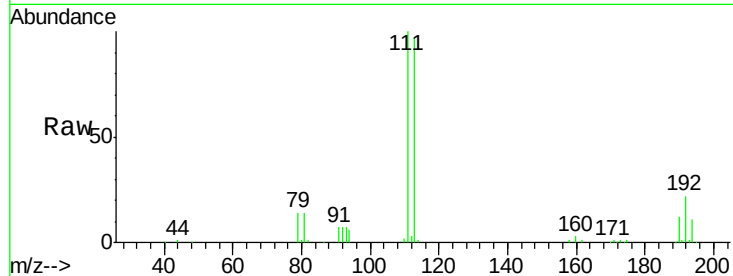




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. 0.00 min  
 Lab File: VN053519.D  
 Acq: 22 Jan 2019 15:09

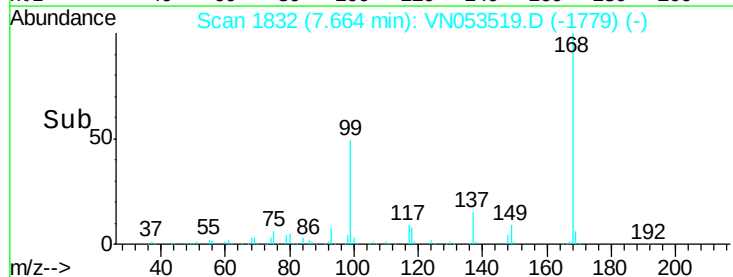
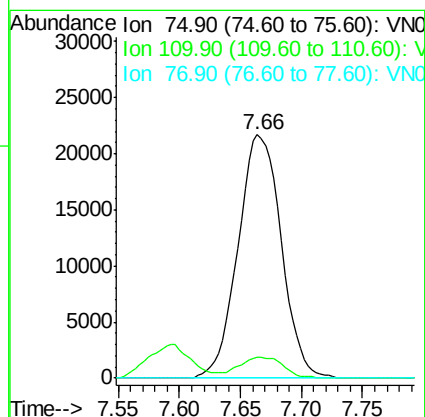
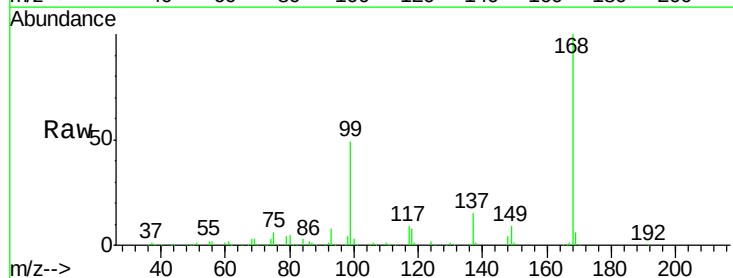
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP03-20190118

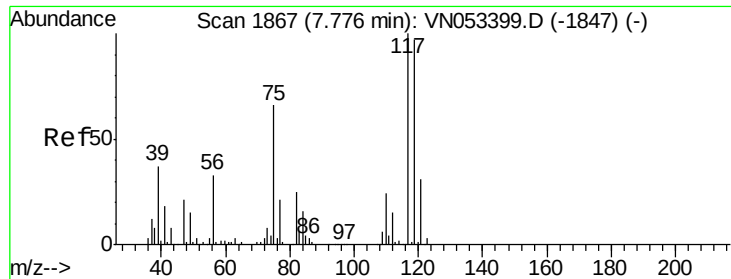
Tot Ion:113 Resp: 386658  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 81.1 121.7  
 192 22.9 18.2 27.2



#36  
 1,1-Dichloropropene  
 Concen: 4.498 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN053519.D  
 Acq: 22 Jan 2019 15:09

Tgt Ion: 75 Resp: 53200  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 18.1 54.3#  
 77 0.0 25.1 37.7#

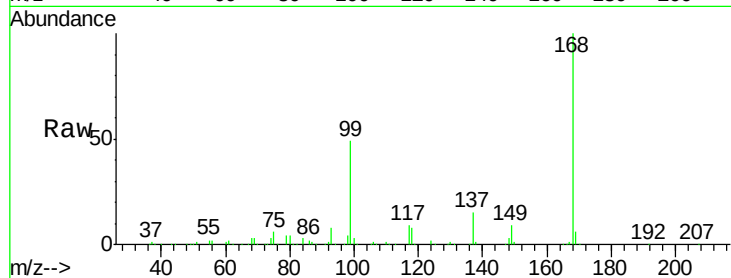




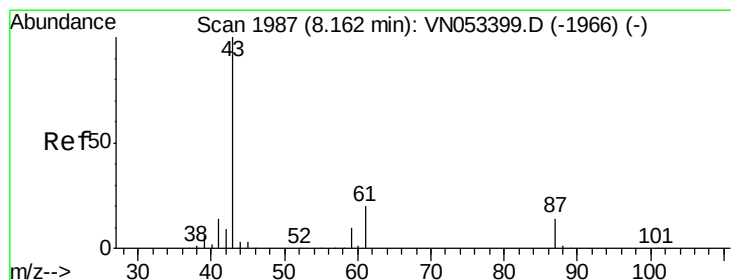
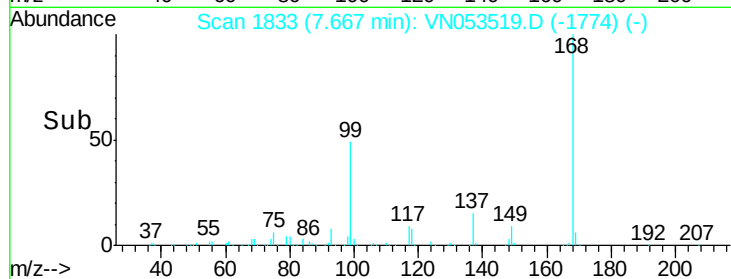
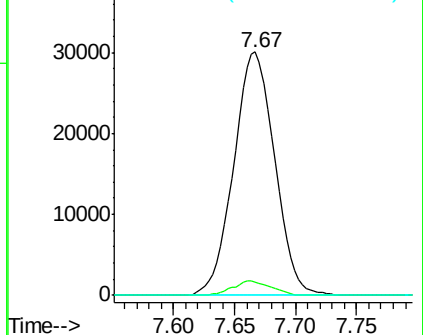
#38  
 Carbon Tetrachloride  
 Concen: 6.242 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.11 min  
 Lab File: VN053519.D  
 Acq: 22 Jan 2019 15:09

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP03-20190118

Tot Ion:117 Resp: 69892  
 Ion Ratio Lower Upper  
 117 100  
 119 5.4 77.2 115.8#  
 121 0.0 24.6 37.0#

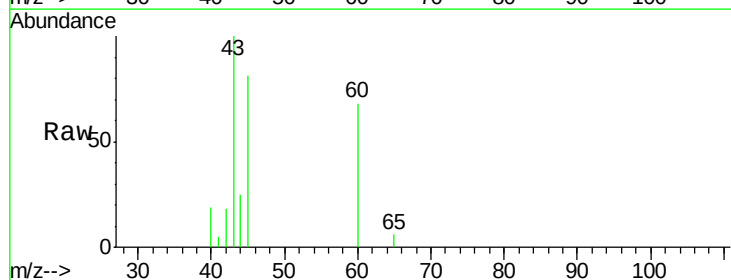


Abundance Ion 116.80 (116.50 to 117.50): V  
 Ion 118.80 (118.50 to 119.50): V  
 Ion 120.80 (120.50 to 121.50): V

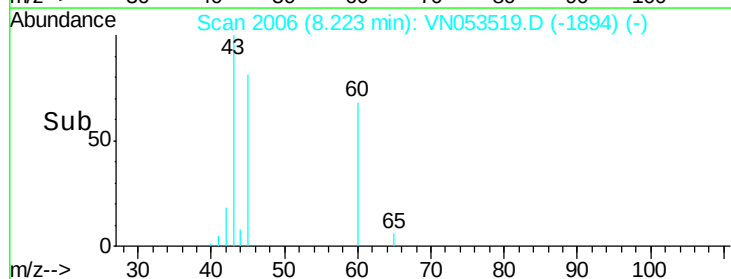
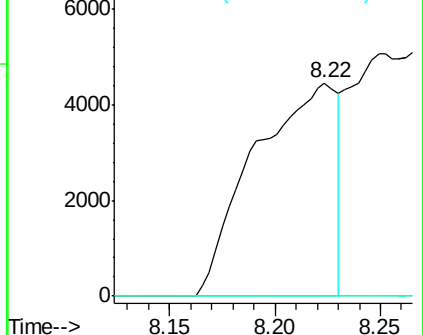


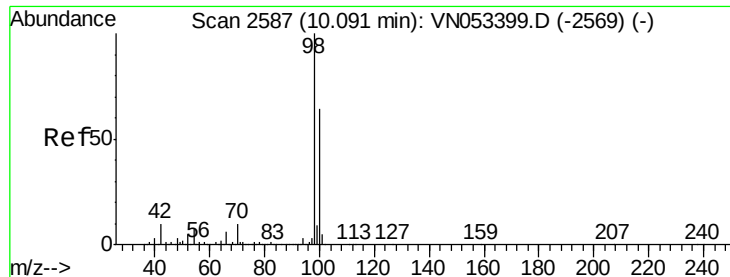
#43  
 Isopropyl Acetate  
 Concen: 0.992 ug/l  
 RT: 8.22 min Scan# 2006  
 Delta R.T. 0.06 min  
 Lab File: VN053519.D  
 Acq: 22 Jan 2019 15:09

Tgt Ion: 43 Resp: 12142  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 23.9 35.9#  
 87 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): V  
 Ion 61.00 (60.70 to 61.70): V  
 Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053519.D

Acq: 22 Jan 2019 15:09

Instrument :

MSVOA\_N

ClientSampleId :

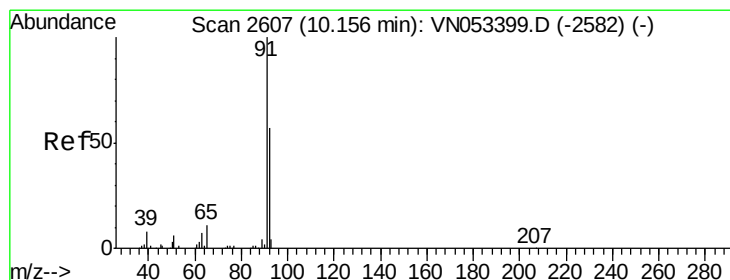
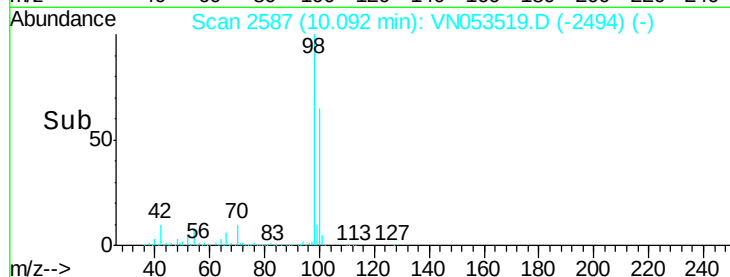
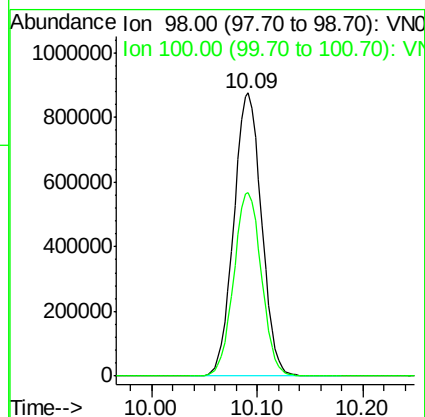
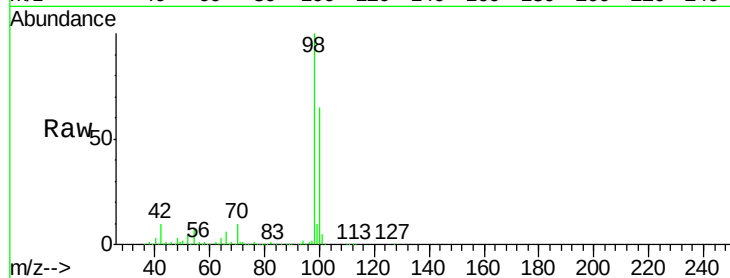
DUP03-20190118

Tot Ion: 98 Resp: 1599904

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0



#52

Toluene

Concen: 0.249 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN053519.D

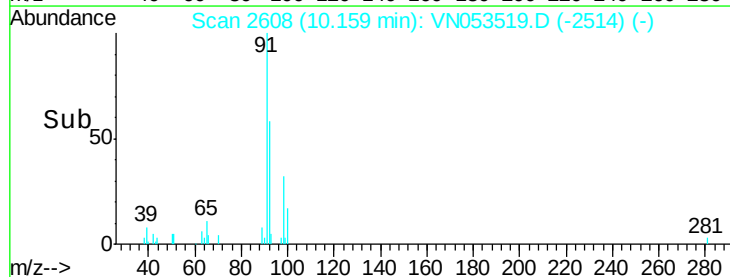
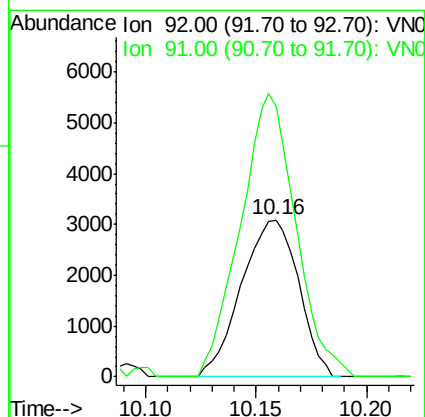
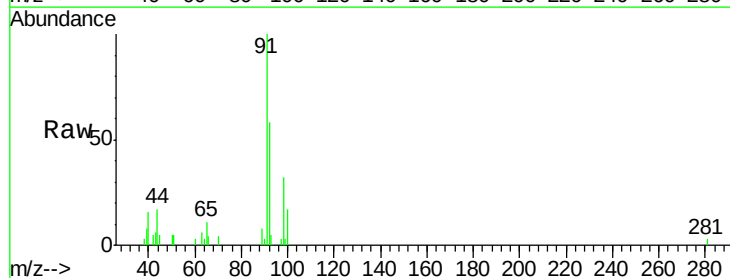
Acq: 22 Jan 2019 15:09

Tgt Ion: 92 Resp: 5547

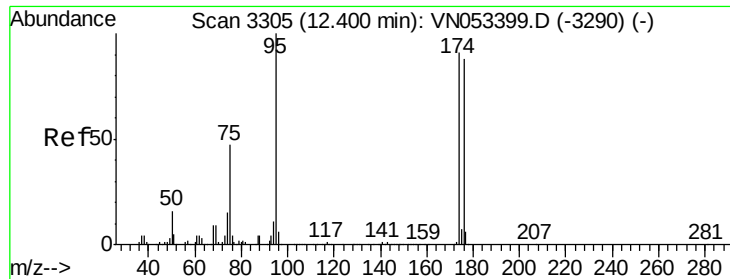
Ion Ratio Lower Upper

92 100

91 174.5 139.9 209.9



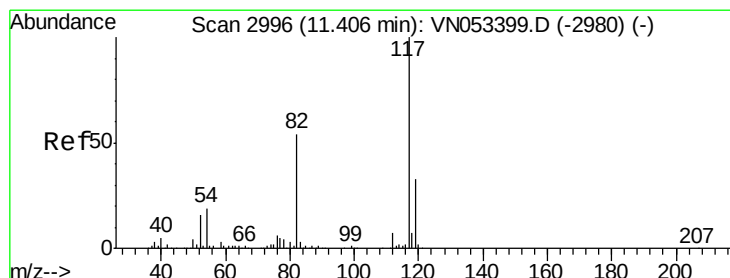
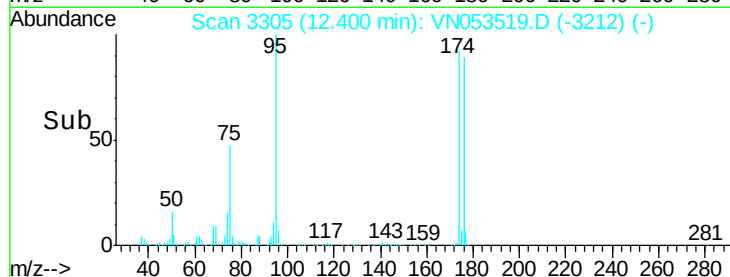
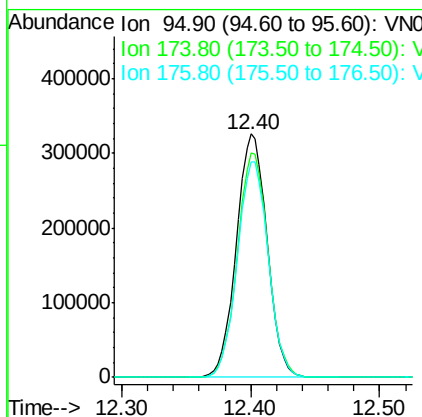
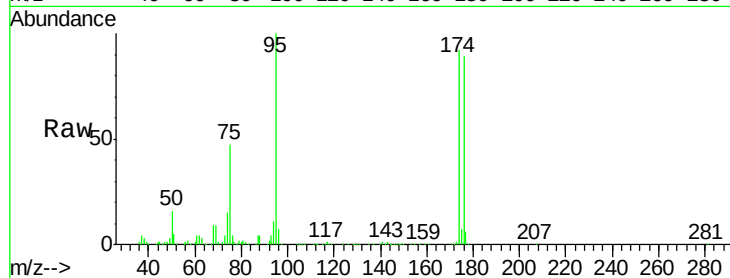




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.00 min  
Lab File: VN053519.D  
Acq: 22 Jan 2019 15:09

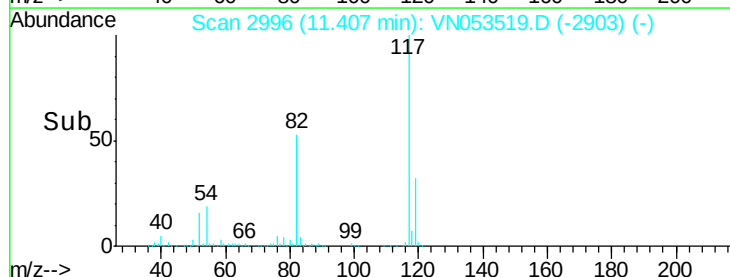
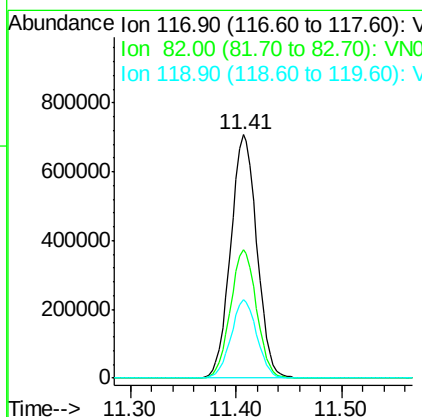
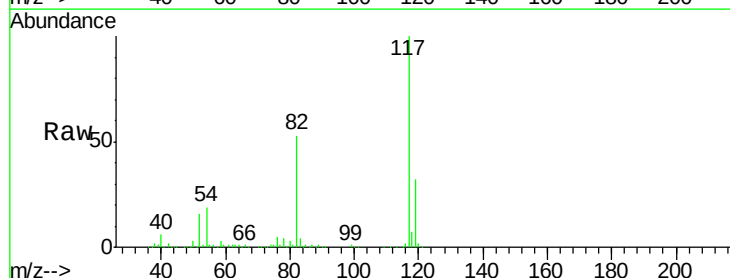
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUP03-20190118

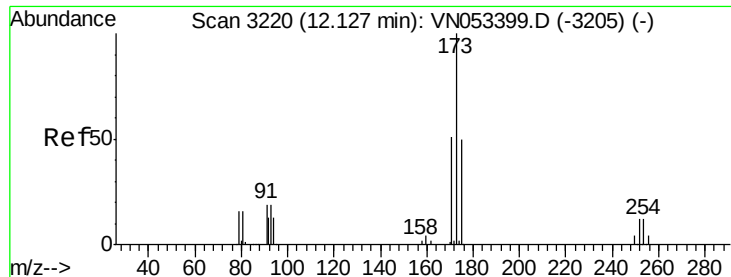
Tot Ion: 95 Resp: 539470  
Ion Ratio Lower Upper  
95 100  
174 92.4 0.0 183.2  
176 89.2 0.0 177.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN053519.D  
Acq: 22 Jan 2019 15:09

Tgt Ion: 117 Resp: 1212597  
Ion Ratio Lower Upper  
117 100  
82 52.8 42.9 64.3  
119 32.1 26.0 39.0





#71

Bromoform

Concen: 0.627 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053519.D

Acq: 22 Jan 2019 15:09

Instrument :

MSVOA\_N

ClientSampleId :

DUP03-20190118

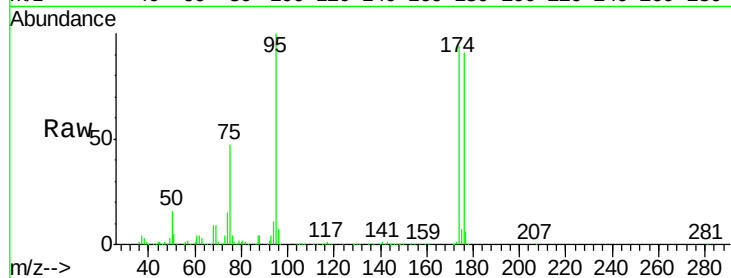
Tot Ion:173 Resp: 3856

Ion Ratio Lower Upper

173 100

175 855.6 24.6 74.0#

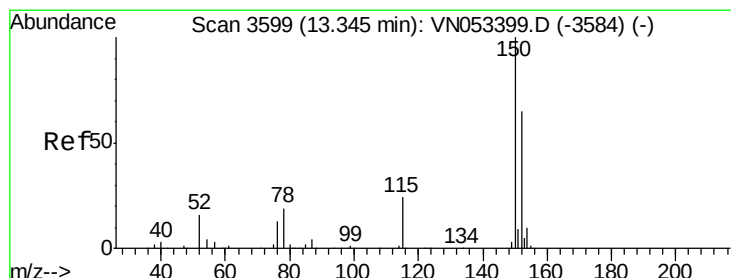
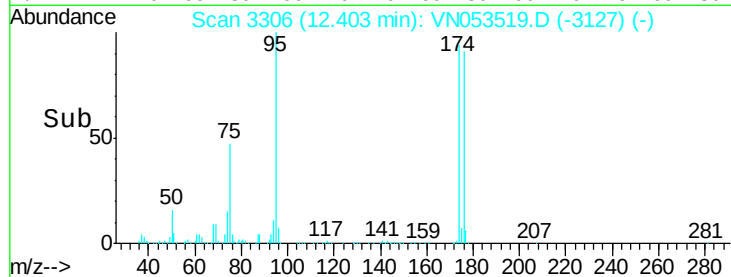
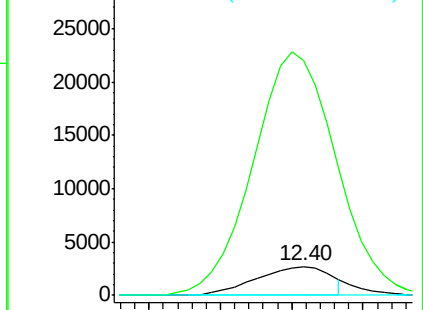
254 0.0 0.2 0.2#



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: VN053519.D

Acq: 22 Jan 2019 15:09

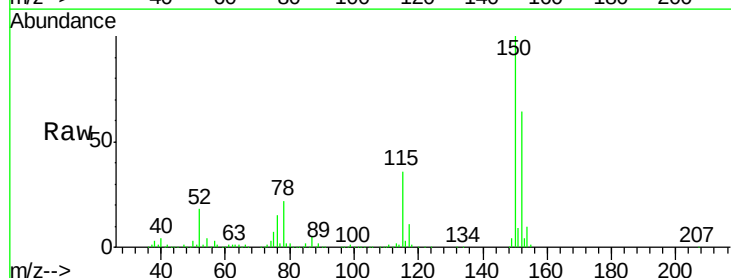
Tgt Ion:152 Resp: 513354

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.4

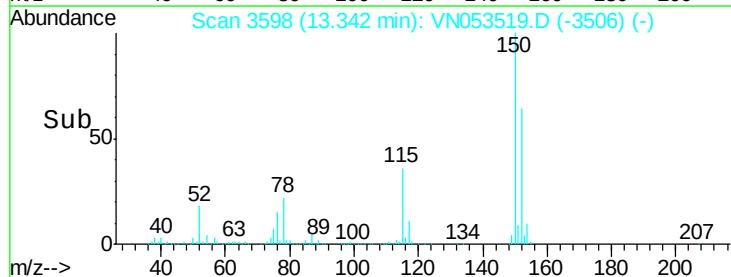
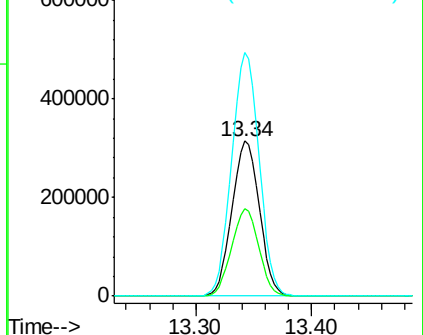
150 157.3 0.0 349.0

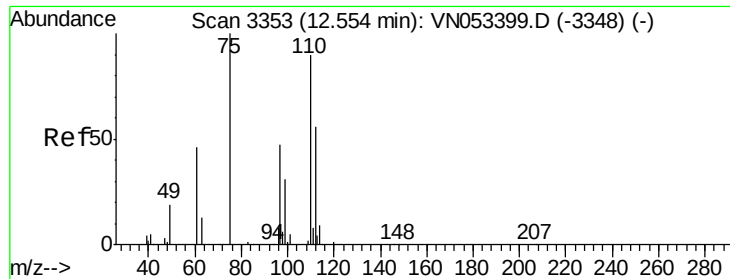


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 37.209 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053519.D

Acq: 22 Jan 2019 15:09

Instrument :

MSVOA\_N

ClientSampleId :

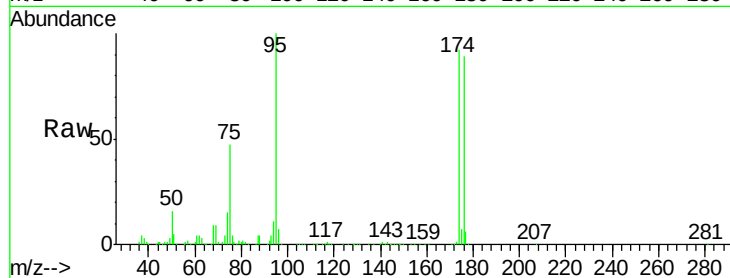
DUP03-20190118

Tot Ion: 75 Resp: 251719

Ion Ratio Lower Upper

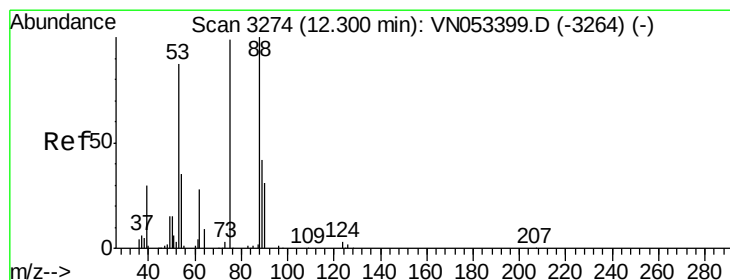
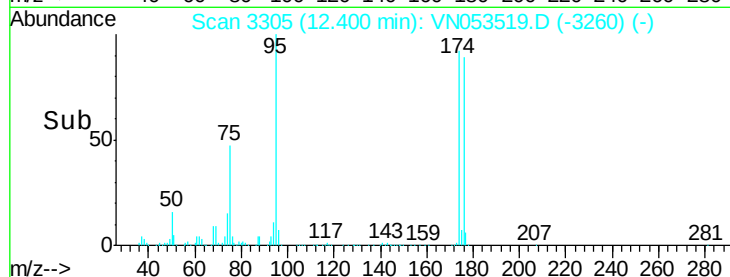
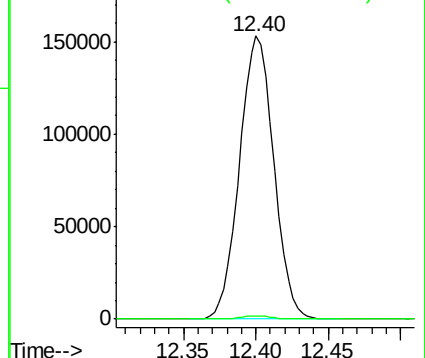
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 91.929 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053519.D

Acq: 22 Jan 2019 15:09

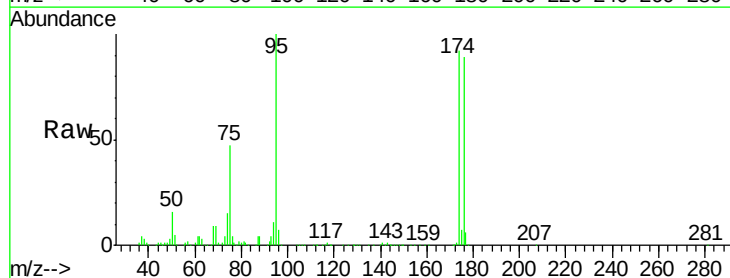
Tgt Ion: 75 Resp: 251719

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

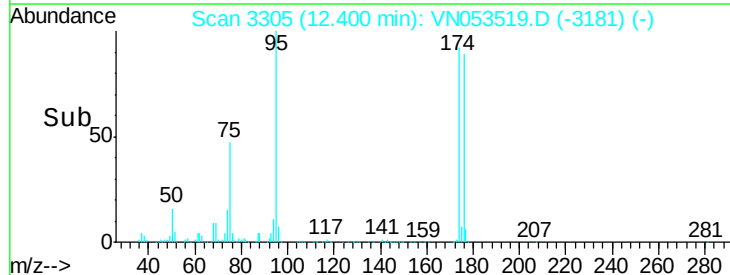
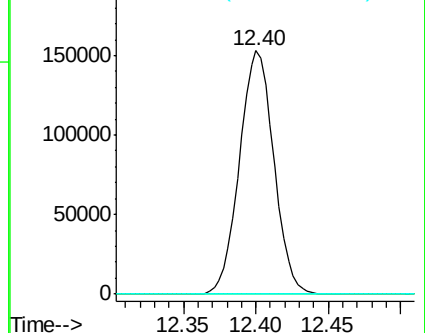
89 0.0 35.6 53.4#

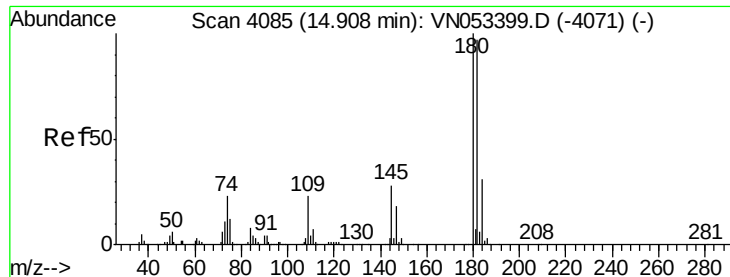


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

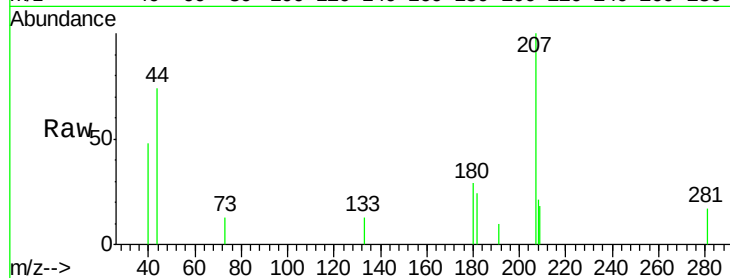




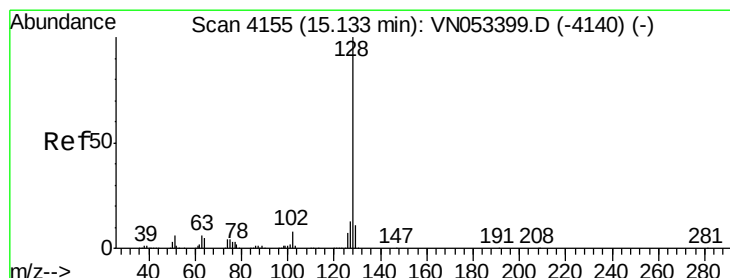
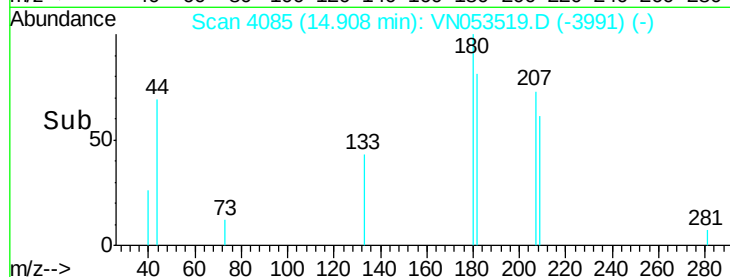
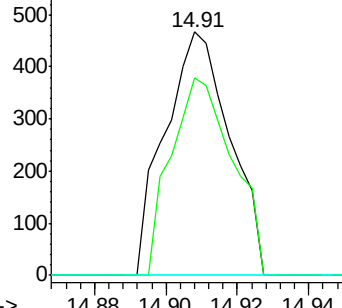
#93  
 1,2,4-Trichlorobenzene  
 Concen: 2.845 ug/l  
 RT: 14.91 min Scan# 4085  
 Delta R.T. 0.00 min  
 Lab File: VN053519.D  
 Acq: 22 Jan 2019 15:09

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP03-20190118

Tot Ion:180 Resp: 588  
 Ion Ratio Lower Upper  
 180 100  
 182 77.2 48.1 144.3  
 145 0.0 13.9 41.6#

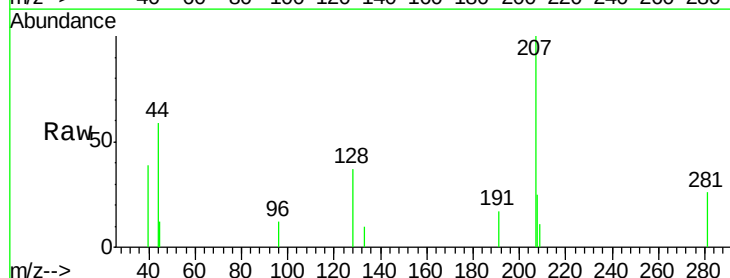


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

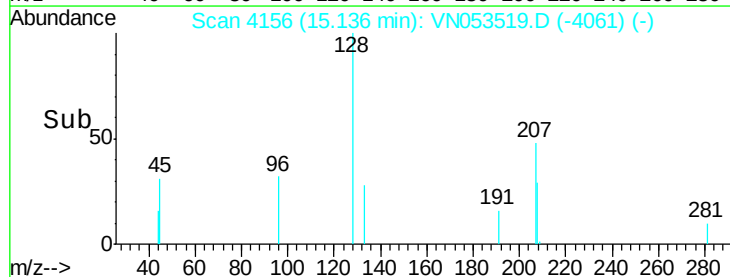
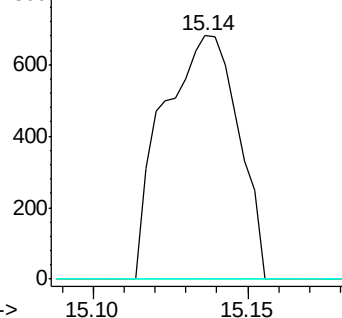


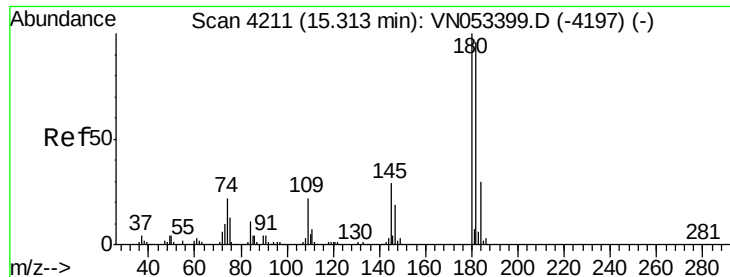
#95  
 Naphthalene  
 Concen: 4.024 ug/l  
 RT: 15.14 min Scan# 4156  
 Delta R.T. 0.00 min  
 Lab File: VN053519.D  
 Acq: 22 Jan 2019 15:09

Tgt Ion:128 Resp: 1154  
 Ion Ratio Lower Upper  
 128 100  
 127 0.0 10.3 15.5#  
 129 0.0 8.6 13.0#



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





#96

1,2,3-Trichlorobenzene

Concen: 3.992 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN053519.D

Acq: 22 Jan 2019 15:09

Instrument :

MSVOA\_N

ClientSampleId :

DUP03-20190118

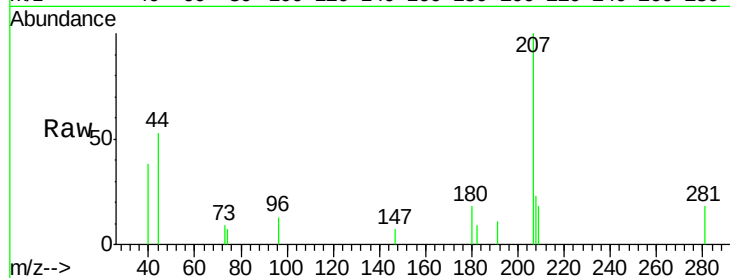
Tot Ion:180 Resp: 493

Ion Ratio Lower Upper

180 100

182 65.5 47.9 143.8

145 0.0 14.7 44.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

