

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021419\  
 Data File : VN053778.D  
 Acq On : 14 Feb 2019 14:42  
 Operator : JC/SP  
 Sample : K1480-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OIL-WATER-SEPERATOR-3

Quant Time: Feb 15 04:25:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 01 09:11:52 2019  
 Response via : Initial Calibration

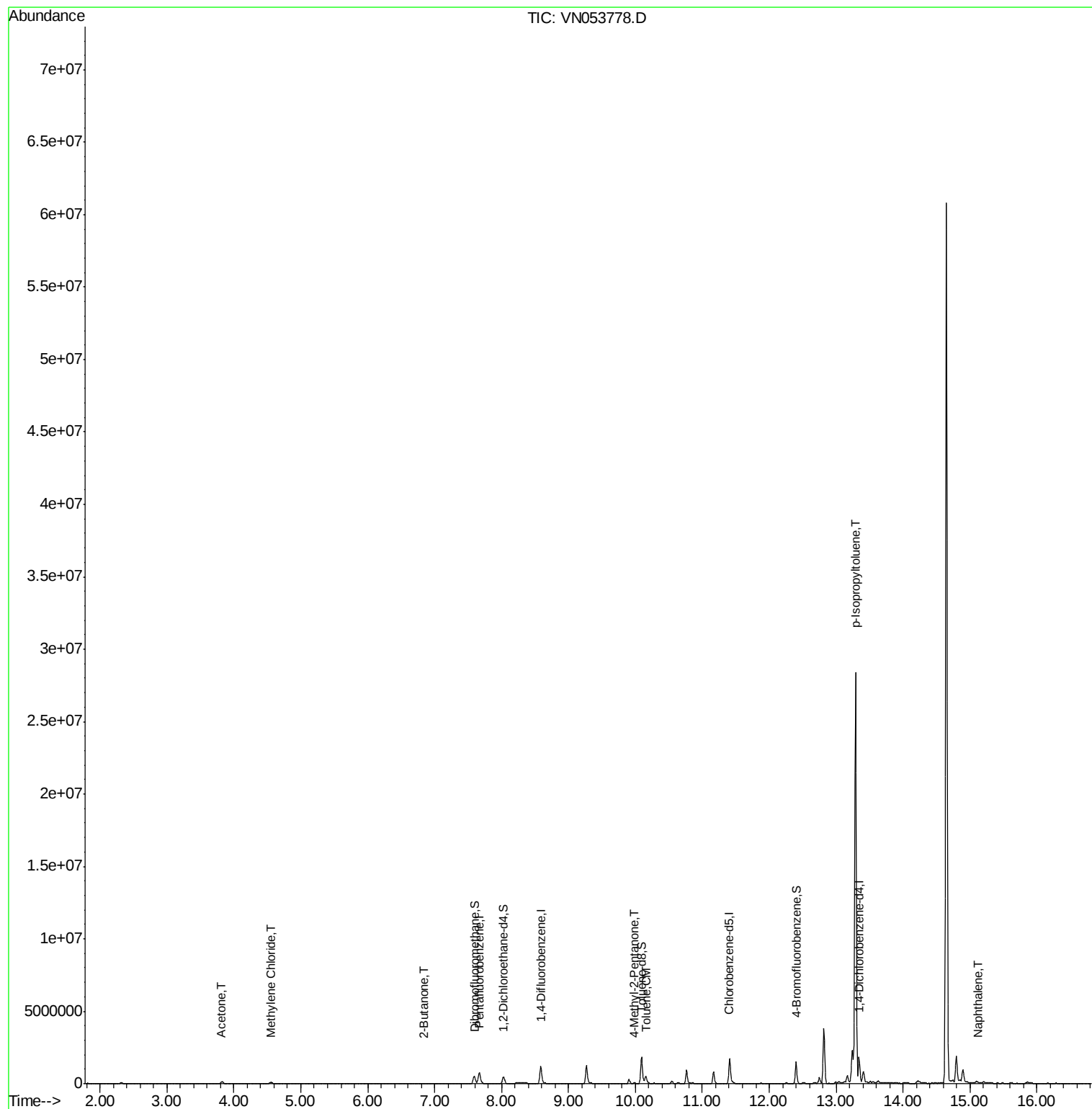
| Internal Standards          | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.67   | 168  | 756021   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59   | 114  | 1237490  | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41  | 117  | 1181343  | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35  | 152  | 537643   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65   | 398589   | 52.55   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 105.10% |          |
| 35) Dibromofluoromethane    | 7.59   | 113  | 392756   | 50.23   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 100.46% |          |
| 50) Toluene-d8              | 10.09  | 98   | 1526143  | 51.98   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 103.96% |          |
| 62) 4-Bromofluorobenzene    | 12.40  | 95   | 529189   | 54.04   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 108.08% |          |
| Target Compounds            |        |      |          |         |         |          |
| 16) Acetone                 | 3.82   | 43   | 224974   | 115.644 | ug/l    | 99       |
| 20) Methylene Chloride      | 4.55   | 84   | 78574    | 9.627   | ug/l    | 97       |
| 25) 2-Butanone              | 6.84   | 43   | 49350    | 17.787  | ug/l    | 98       |
| 51) 4-Methyl-2-Pentanone    | 9.99   | 43   | 68083    | 11.515  | ug/l #  | 85       |
| 52) Toluene                 | 10.16  | 92   | 235071   | 11.514  | ug/l    | 99       |
| 86) p-Isopropyltoluene      | 13.28  | 119  | 15658150 | 474.954 | ug/l    | 93       |
| 95) Naphthalene             | 15.13  | 128  | 11806    | 2.219   | ug/l #  | 87       |

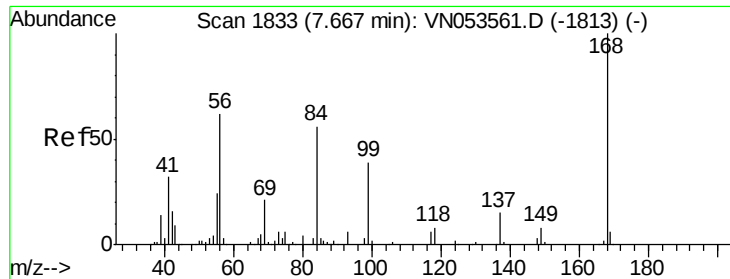
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OIL-WATER-SEPERATOR-3

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Quant Title : SW846 8260  
QLast Update : Fri Feb 01 09:11:52 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: VN053778.D

Acq: 14 Feb 2019 14:42

Instrument :

MSVOA\_N

ClientSampleId :

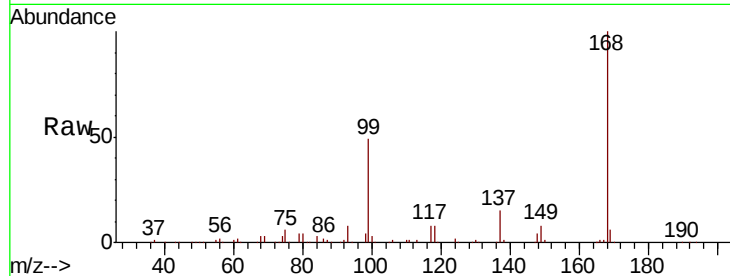
OIL-WATER-SEPARATOR-3

Tot Ion:168 Resp: 756021

Ion Ratio Lower Upper

168 100

99 48.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

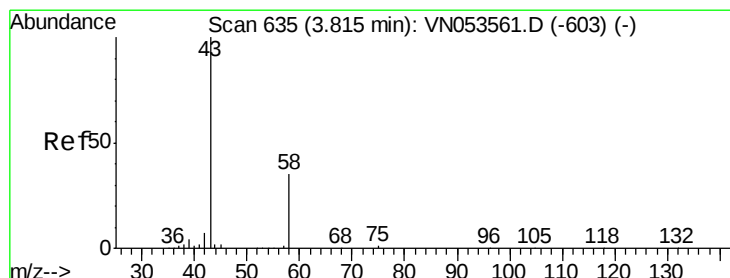
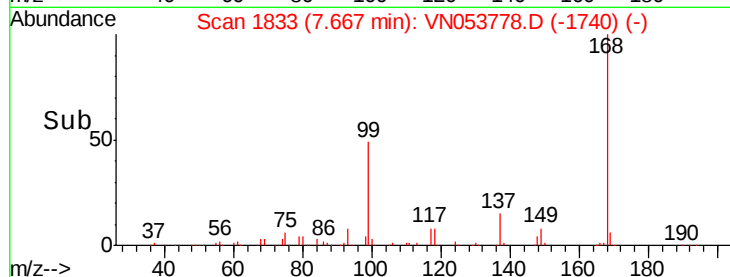
200000

100000

0

Time-->

7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 115.644 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053778.D

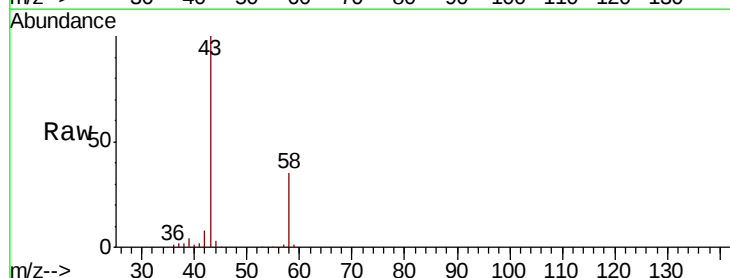
Acq: 14 Feb 2019 14:42

Tgt Ion: 43 Resp: 224974

Ion Ratio Lower Upper

43 100

58 34.5 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

80000

60000

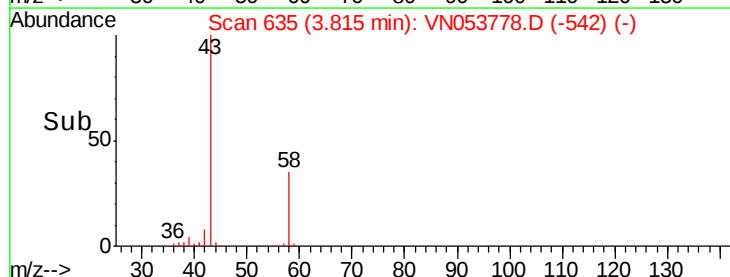
40000

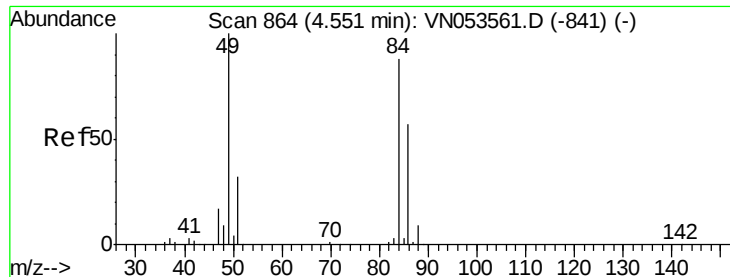
20000

0

Time-->

3.70 3.80 3.90

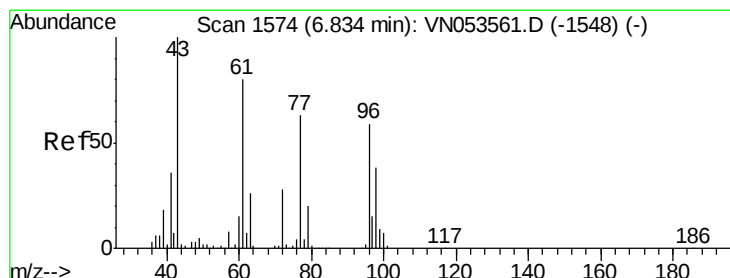
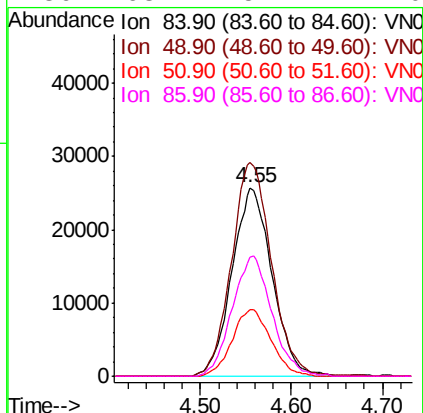
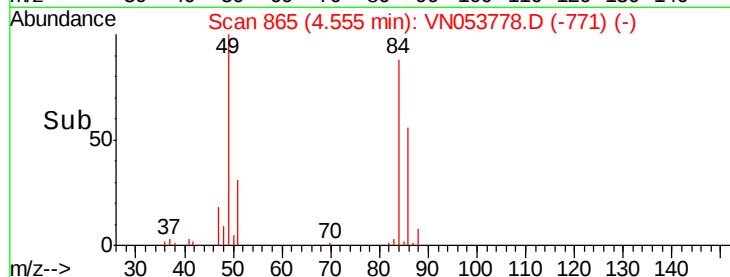
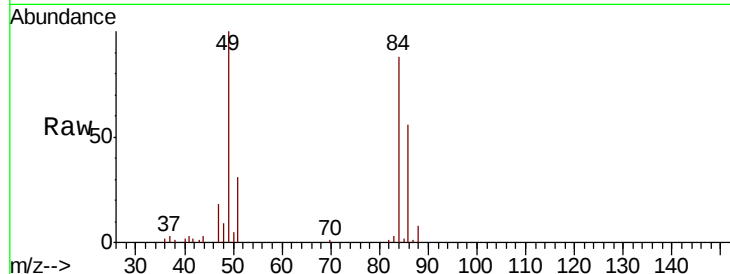




#20  
Methvlene Chloride  
Concen: 9.627 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.00 min  
Lab File: VN053778.D  
Acq: 14 Feb 2019 14:42

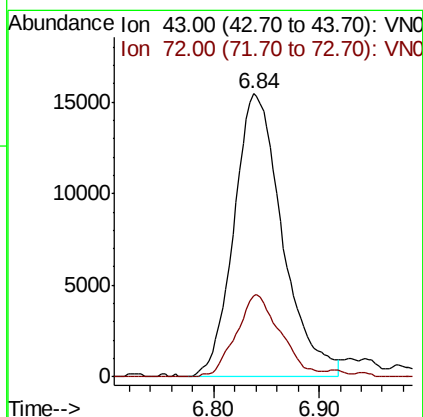
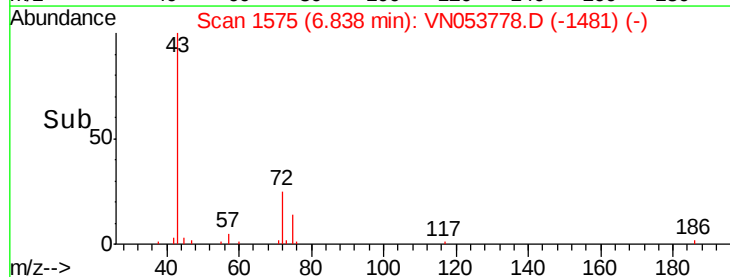
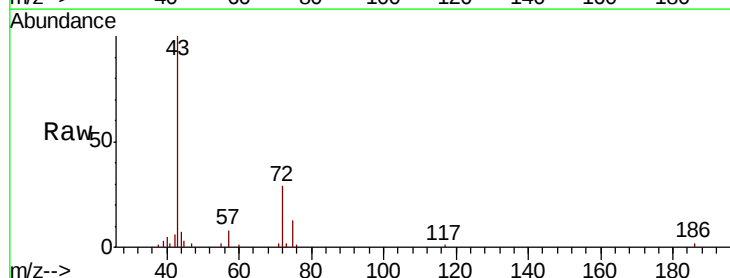
Instrument :  
MSVOA\_N  
ClientSampleId :  
OIL-WATER-SEPERATOR-3

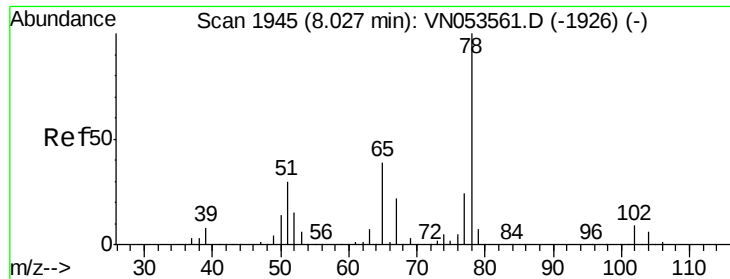
Tot Ion: 84 Resp: 78574  
Ion Ratio Lower Upper  
84 100  
49 113.4 94.3 141.5  
51 35.4 29.4 44.2  
86 63.1 51.4 77.0



#25  
2-Butanone  
Concen: 17.787 ug/l  
RT: 6.84 min Scan# 1575  
Delta R.T. 0.00 min  
Lab File: VN053778.D  
Acq: 14 Feb 2019 14:42

Tgt Ion: 43 Resp: 49350  
Ion Ratio Lower Upper  
43 100  
72 28.5 22.0 33.0

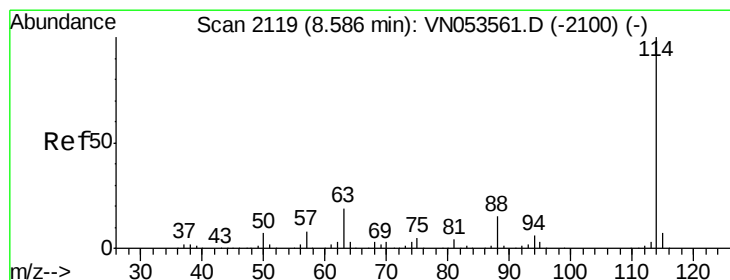
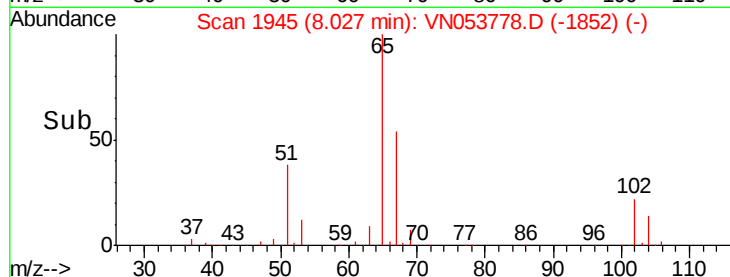
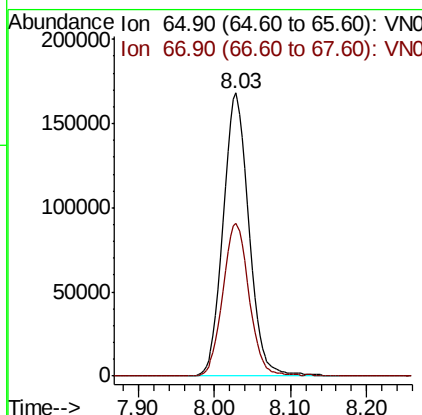
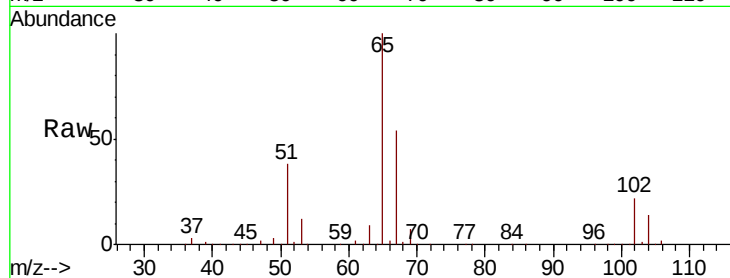




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.554 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN053778.D  
 Acq: 14 Feb 2019 14:42

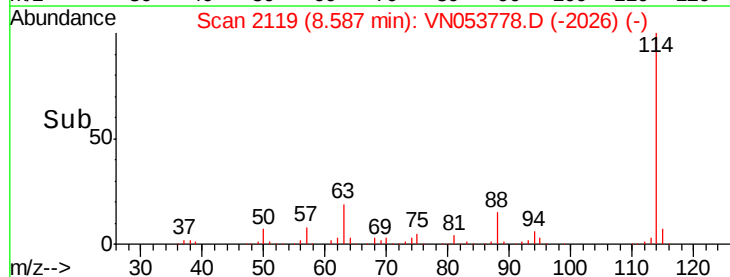
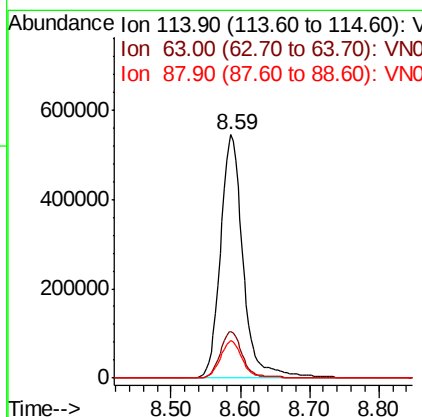
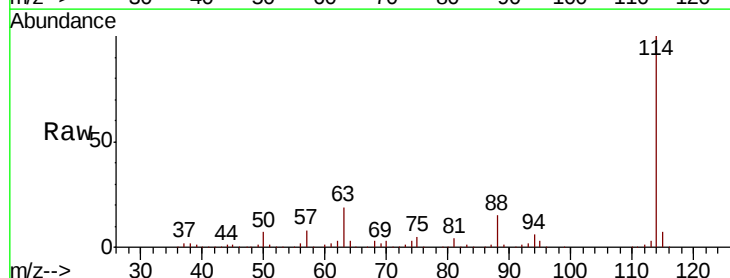
Instrument :  
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 OIL-WATER-SEPARATOR-3

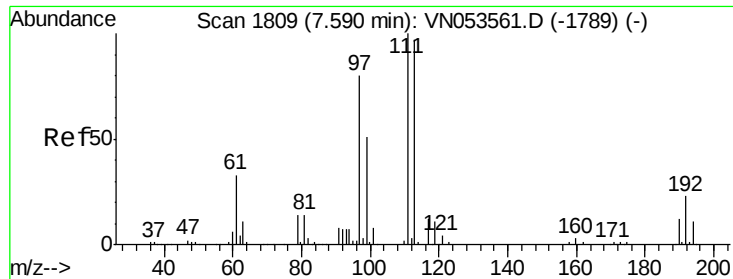
Tot Ion: 65 Resp: 398589  
 Ion Ratio Lower Upper  
 65 100  
 67 54.9 0.0 111.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN053778.D  
 Acq: 14 Feb 2019 14:42

Tgt Ion: 114 Resp: 1237490  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 38.6  
 88 15.4 0.0 30.4

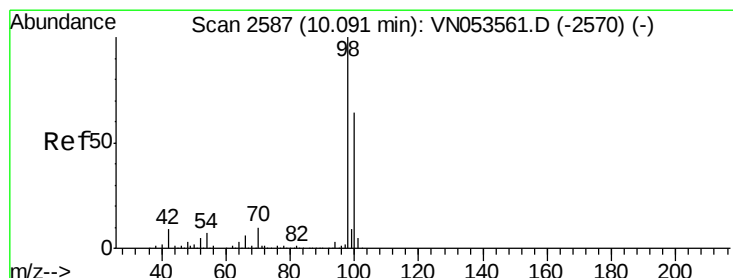
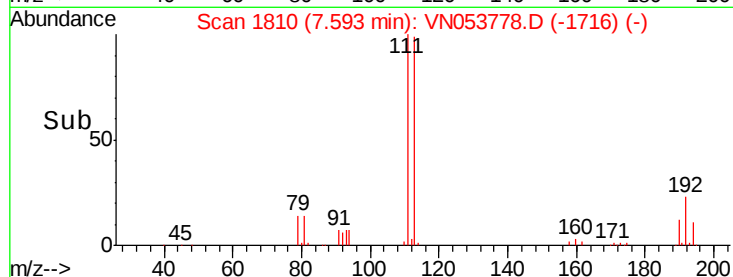
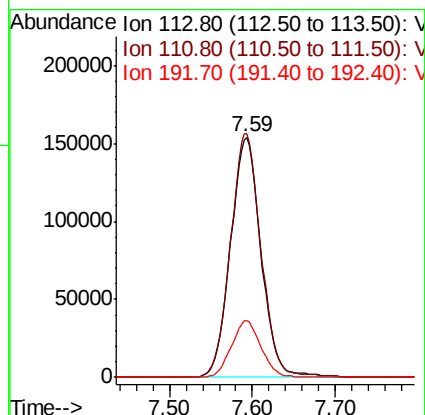
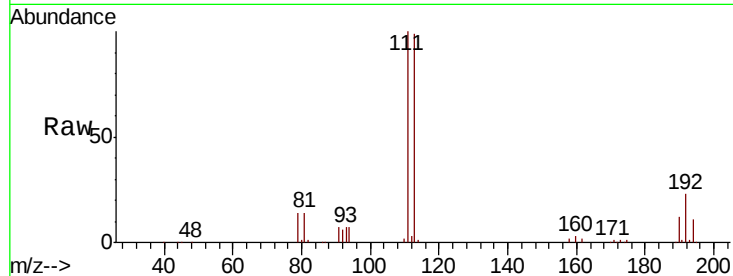




#35  
 Dibromofluoromethane  
 Concen: 50.229 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN053778.D  
 Acq: 14 Feb 2019 14:42

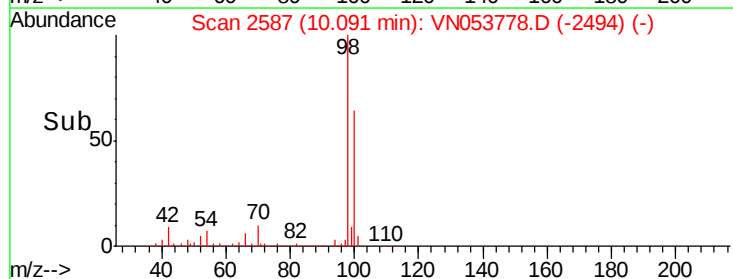
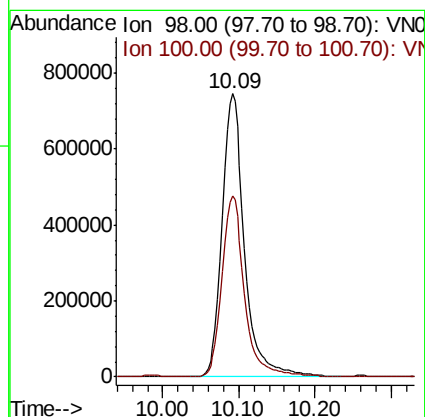
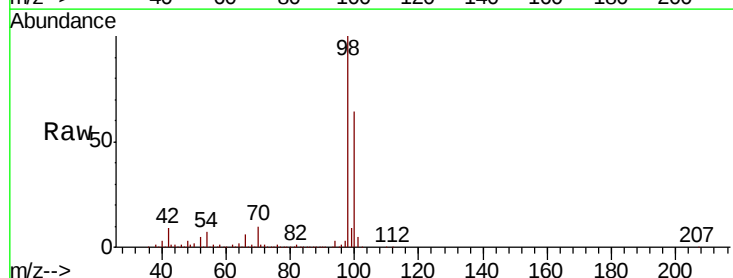
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OIL-WATER-SEPARATOR-3

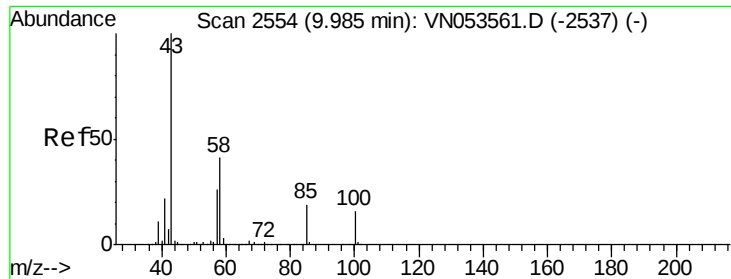
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 81.1  | 121.7 |
| 192     | 23.2  | 18.2  | 27.2  |



#50  
 Toluene-d8  
 Concen: 51.980 ug/l  
 RT: 10.09 min Scan# 2587  
 Delta R.T. 0.00 min  
 Lab File: VN053778.D  
 Acq: 14 Feb 2019 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.6  | 51.4  | 77.0  |

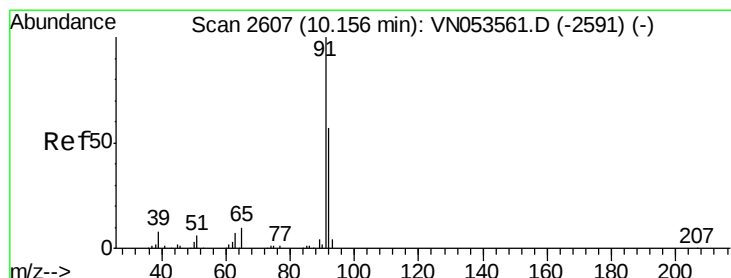
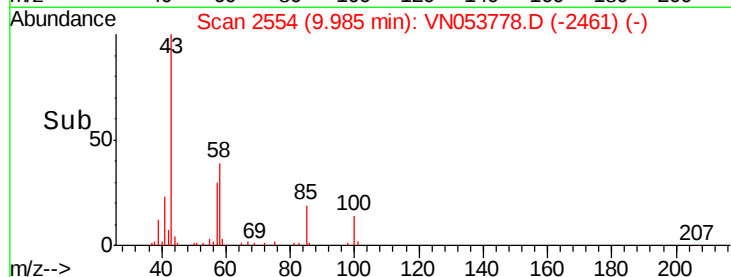
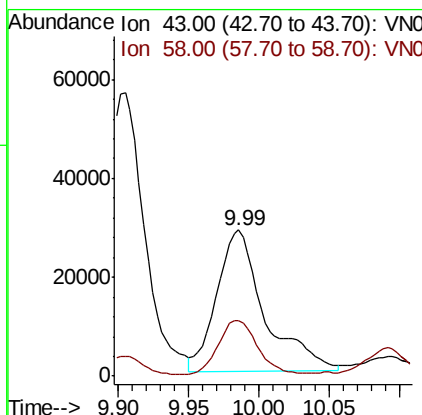
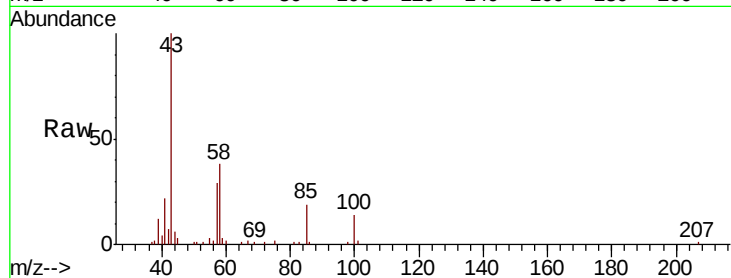




#51  
 4-Methyl-2-Pentanone  
 Concen: 11.515 ug/l  
 RT: 9.99 min Scan# 2554  
 Delta R.T. 0.00 min  
 Lab File: VN053778.D  
 Acq: 14 Feb 2019 14:42

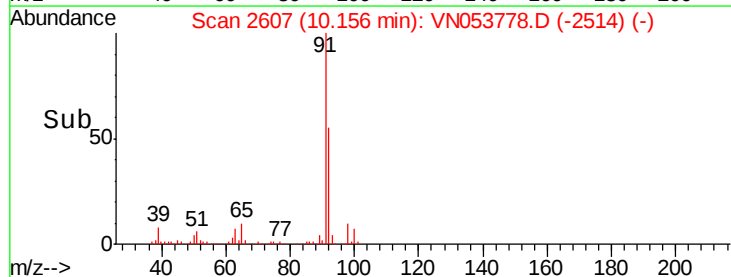
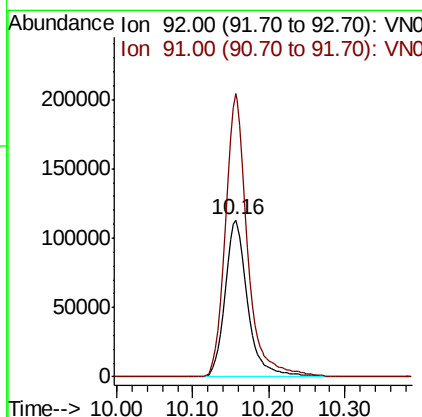
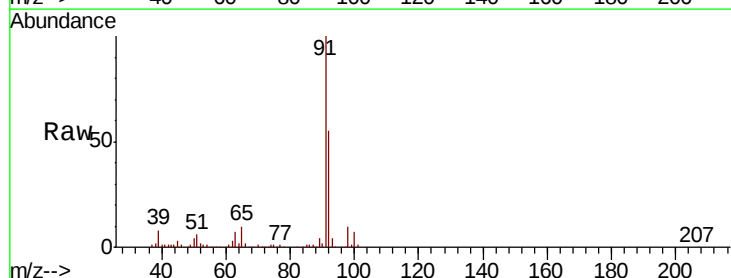
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OIL-WATER-SEPARATOR-3

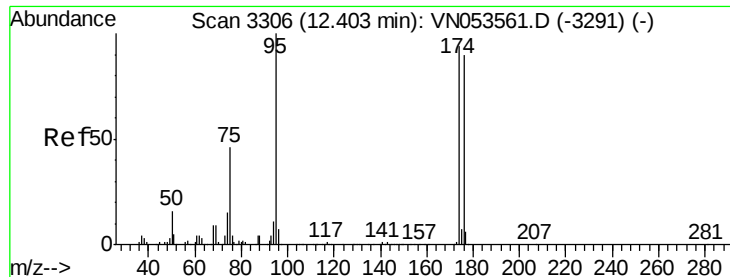
Tot Ion: 43 Resp: 68083  
 Ion Ratio Lower Upper  
 43 100  
 58 31.6 32.8 49.2#



#52  
 Toluene  
 Concen: 11.514 ug/l  
 RT: 10.16 min Scan# 2607  
 Delta R.T. 0.00 min  
 Lab File: VN053778.D  
 Acq: 14 Feb 2019 14:42

Tgt Ion: 92 Resp: 235071  
 Ion Ratio Lower Upper  
 92 100  
 91 176.0 139.9 209.9





#62

4-Bromofluorobenzene

Concen: 54.043 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053778.D

Acq: 14 Feb 2019 14:42

Instrument :

MSVOA\_N

ClientSampleId :

OIL-WATER-SEPARATOR-3

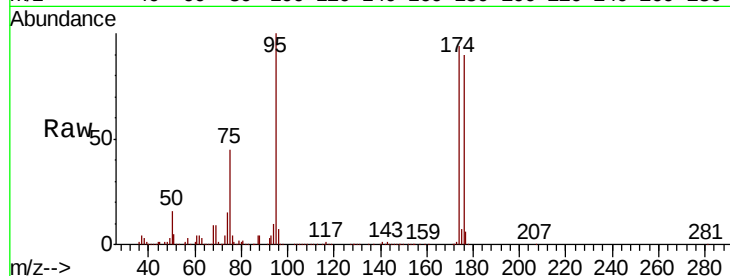
Tot Ion: 95 Resp: 529189

Ion Ratio Lower Upper

95 100

174 94.2 0.0 183.2

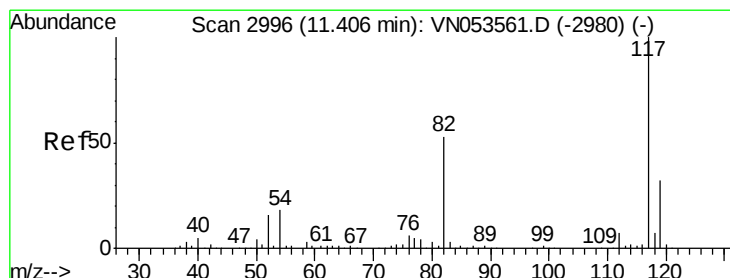
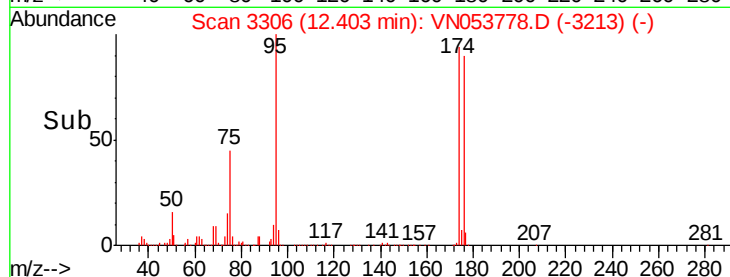
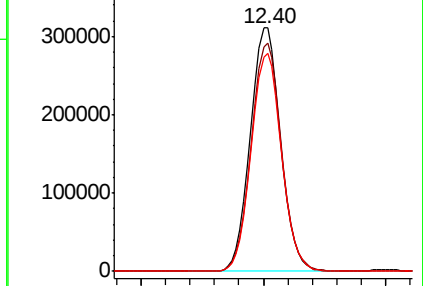
176 90.0 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053778.D

Acq: 14 Feb 2019 14:42

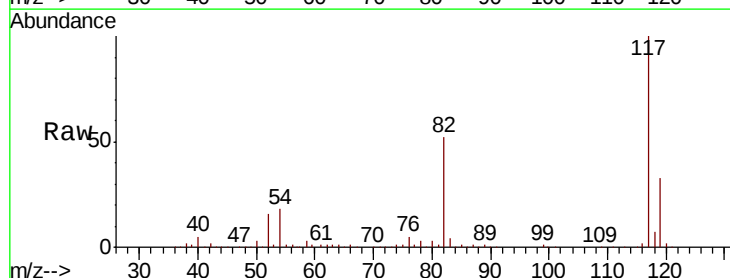
Tgt Ion: 117 Resp: 1181343

Ion Ratio Lower Upper

117 100

82 52.4 42.9 64.3

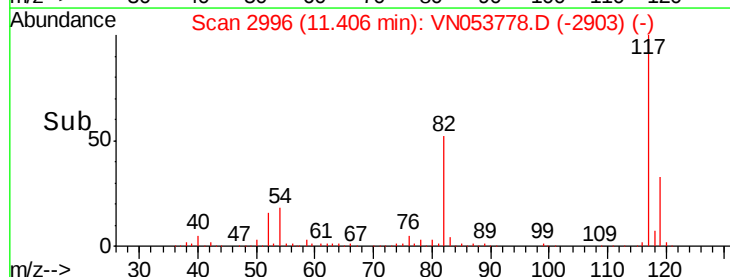
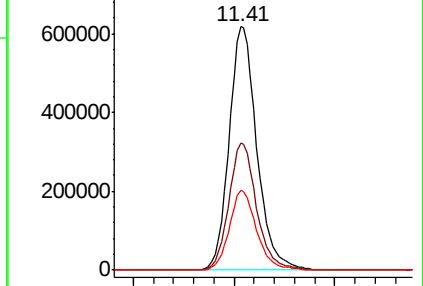
119 32.8 26.0 39.0

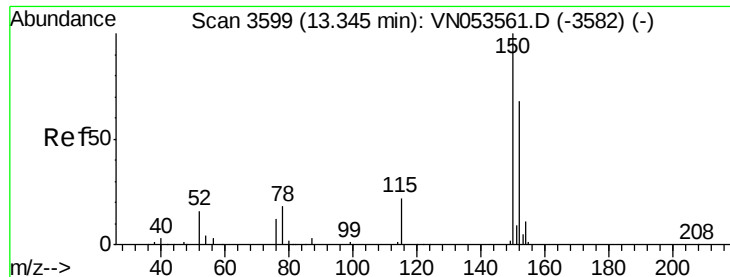


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053778.D

Acq: 14 Feb 2019 14:42

Instrument :

MSVOA\_N

ClientSampleId :

OIL-WATER-SEPARATOR-3

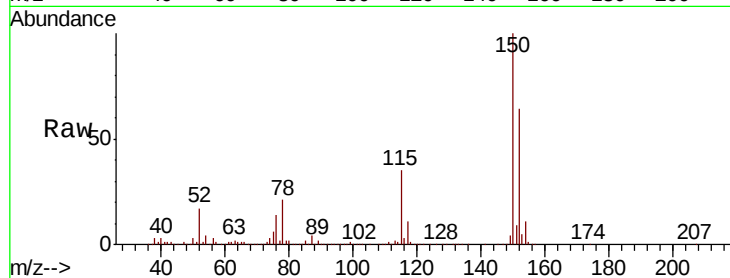
Tot Ion:152 Resp: 537643

Ion Ratio Lower Upper

152 100

115 53.7 27.8 83.4

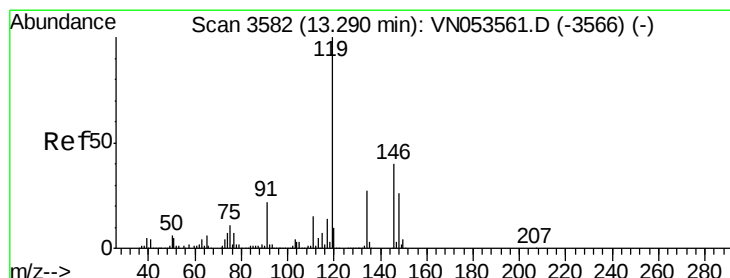
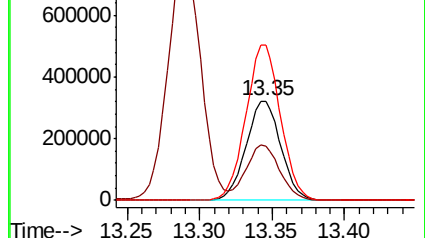
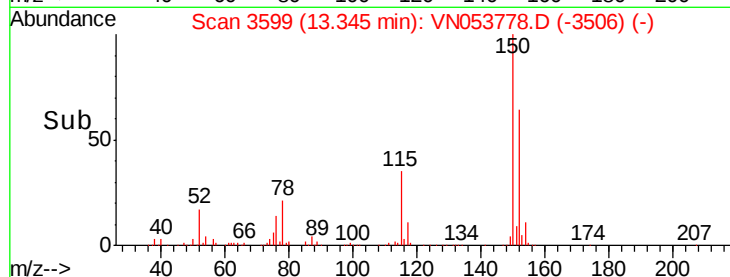
150 155.3 0.0 349.0



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



#86

p-Isopropyltoluene

Concen: 474.954 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.01 min

Lab File: VN053778.D

Acq: 14 Feb 2019 14:42

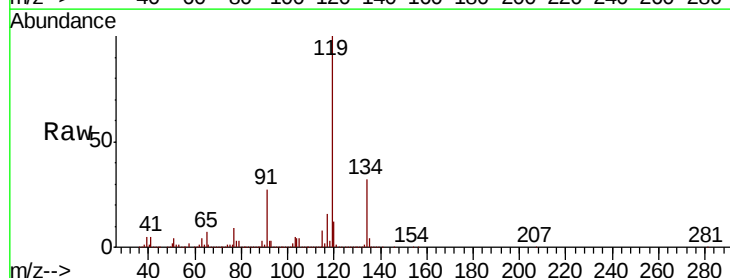
Tgt Ion:119 Resp:15658150

Ion Ratio Lower Upper

119 100

134 30.3 13.5 40.4

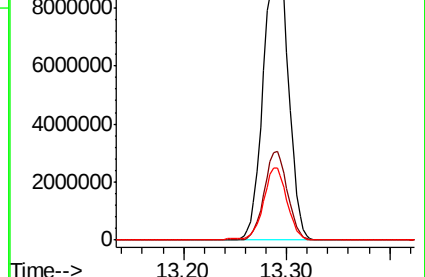
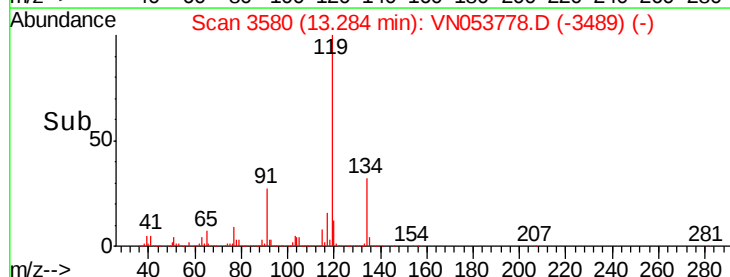
91 25.2 11.0 33.0

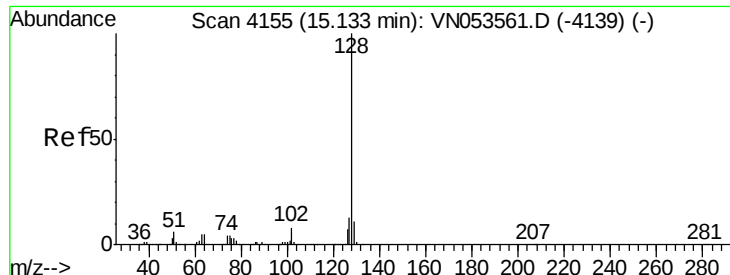


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

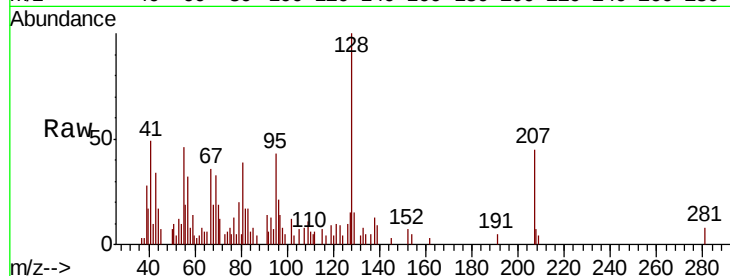




#95  
Naphthalene  
Concen: 2.219 ug/l  
RT: 15.13 min Scan# 4154  
Delta R.T. -0.00 min  
Lab File: VN053778.D  
Acq: 14 Feb 2019 14:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
OIL-WATER-SEPERATOR-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 16.7  | 10.3  | 15.5# |
| 129     | 17.3  | 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

