

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082219\  
 Data File : VN057455.D  
 Acq On : 23 Aug 2019 1:05  
 Operator : JC/SP  
 Sample : K4087-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HD-02-082119

Quant Time: Aug 23 05:49:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 05:07:29 2019  
 Response via : Initial Calibration

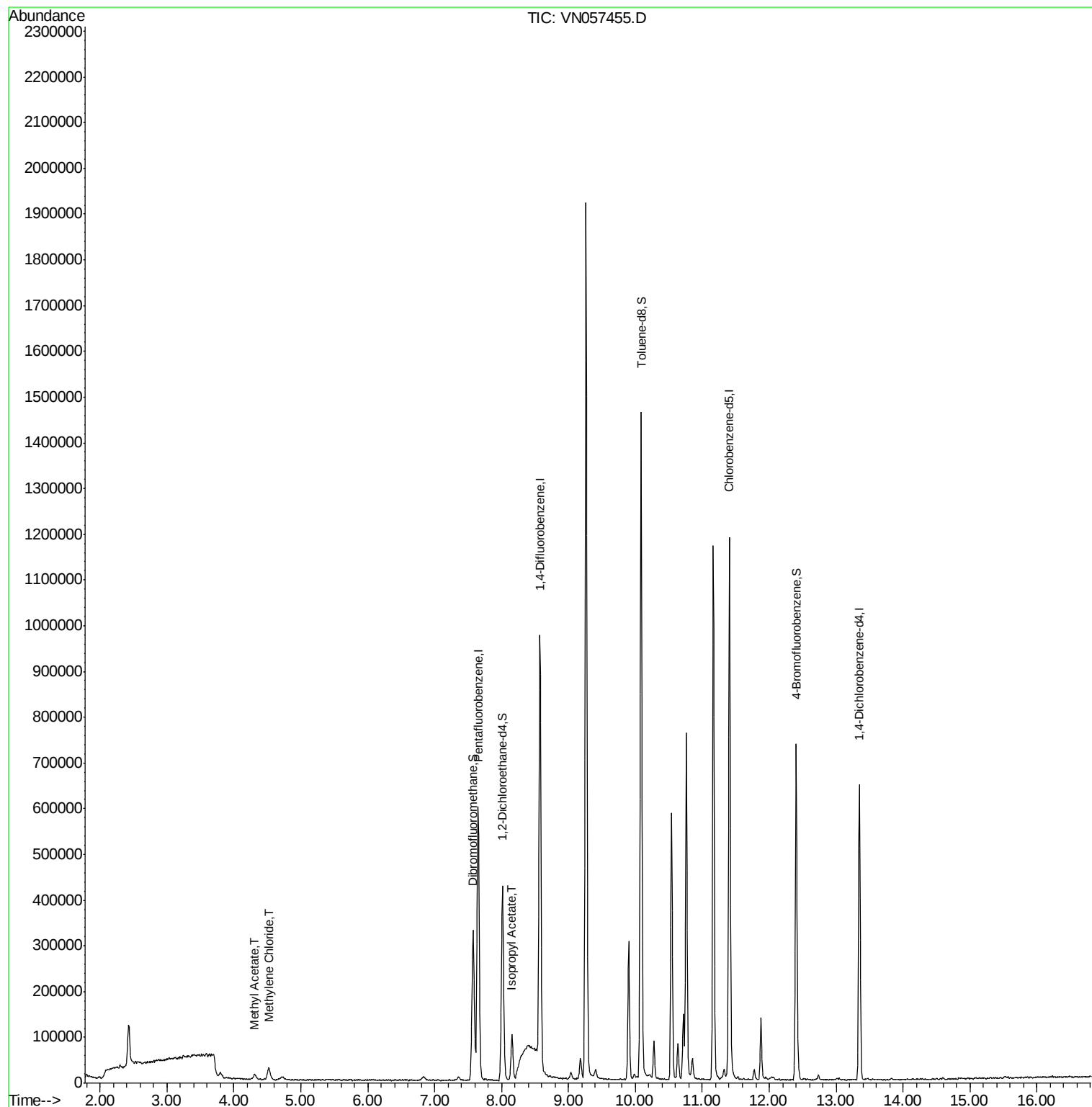
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.65  | 168  | 430969   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 761923   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 626997   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 159172   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 360403   | 47.54 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.08% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 237555   | 46.16 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.32% |          |
| 50) Toluene-d8              | 10.09 | 98   | 954903   | 49.07 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.14% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 259138   | 39.30 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 78.60% |          |
| Target Compounds            |       |      |          |       |        |          |
| 18) Methyl Acetate          | 4.31  | 43   | 23998    | 2.284 | ug/l   | 97       |
| 20) Methylene Chloride      | 4.53  | 84   | 18231    | 3.462 | ug/l   | 93       |
| 43) Isopropyl Acetate       | 8.16  | 43   | 125213   | 8.877 | ug/l   | 99       |

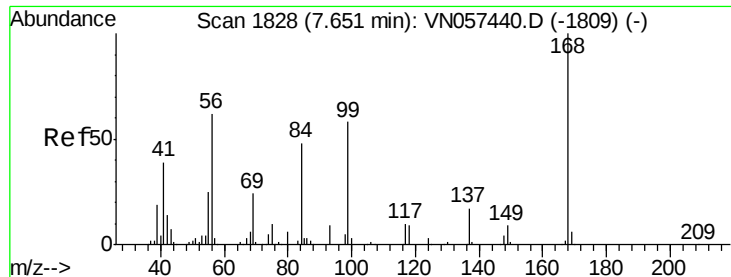
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082219\  
Data File : VN057455.D  
Acq On : 23 Aug 2019 1:05  
Operator : JC/SP  
Sample : K4087-03  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
HD-02-082119

Quant Time: Aug 23 05:49:22 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N082219W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 23 05:07:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057455.D

Acq: 23 Aug 2019 1:05

Instrument :

MSVOA\_N

ClientSampleId :

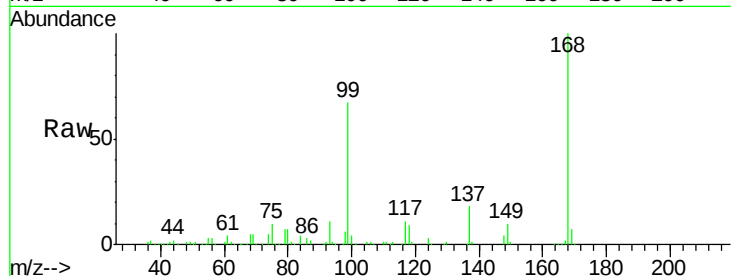
HD-02-082119

Tot Ion:168 Resp: 430969

Ion Ratio Lower Upper

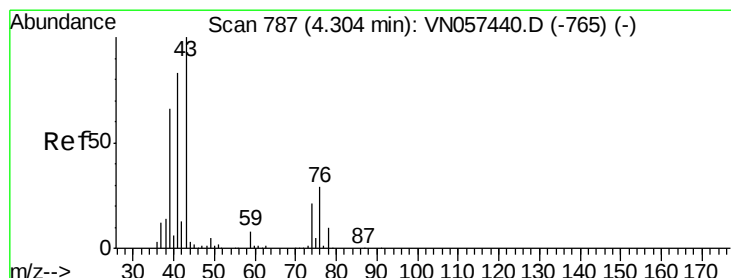
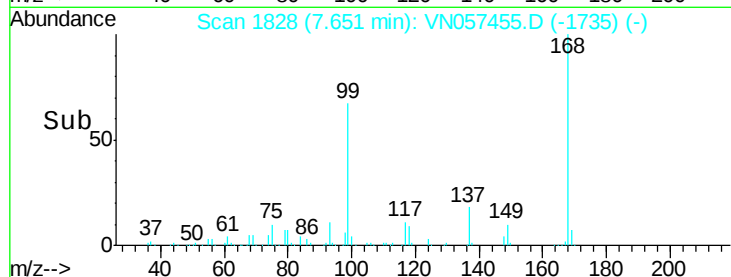
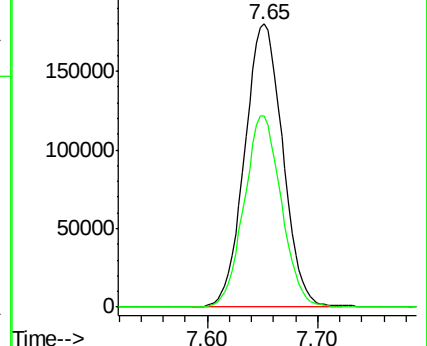
168 100

99 67.4 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#18

Methyl Acetate

Concen: 2.284 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057455.D

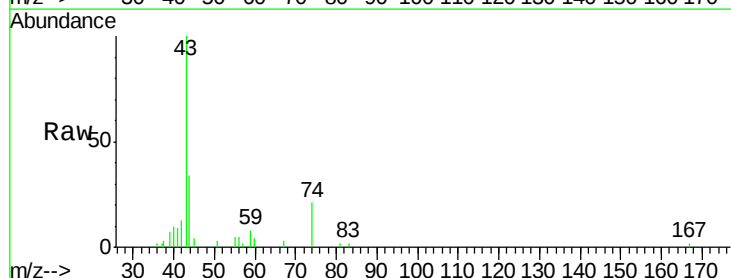
Acq: 23 Aug 2019 1:05

Tgt Ion: 43 Resp: 23998

Ion Ratio Lower Upper

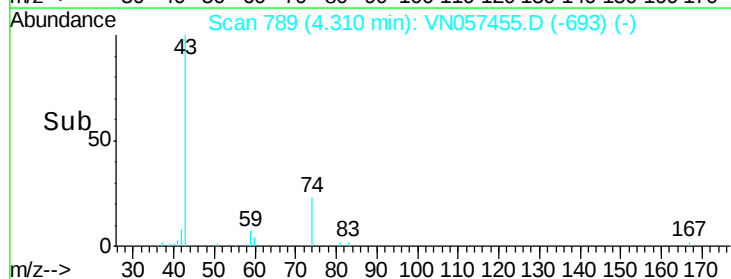
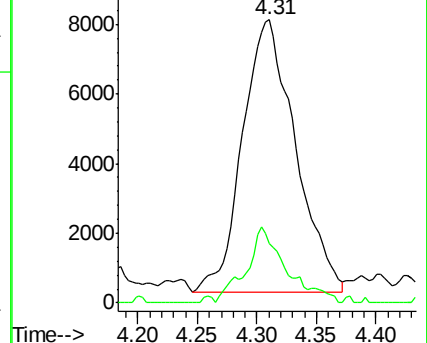
43 100

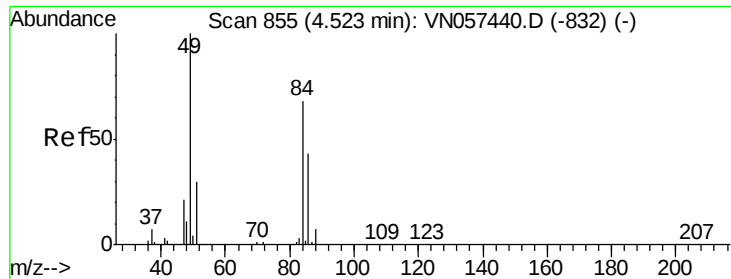
74 21.2 15.9 23.9



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

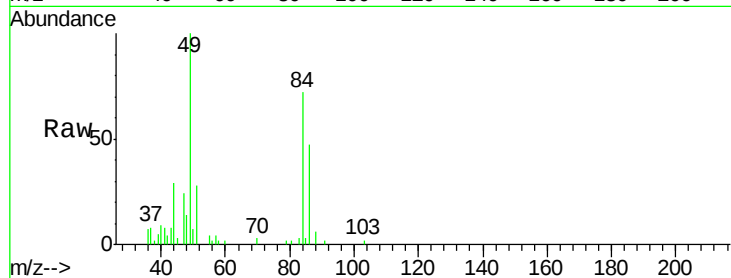




#20  
Methvlene Chloride  
Concen: 3.462 ug/l  
RT: 4.53 min Scan# 856  
Delta R.T. 0.00 min  
Lab File: VN057455.D  
Acq: 23 Aug 2019 1:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
HD-02-082119

| Tot Ion   | 84    | Resp  | 18231 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 84        | 100   |       |       |
| 49        | 137.2 | 117.0 | 175.4 |
| 51        | 35.9  | 35.5  | 53.3  |
| 86        | 65.1  | 49.8  | 74.8  |

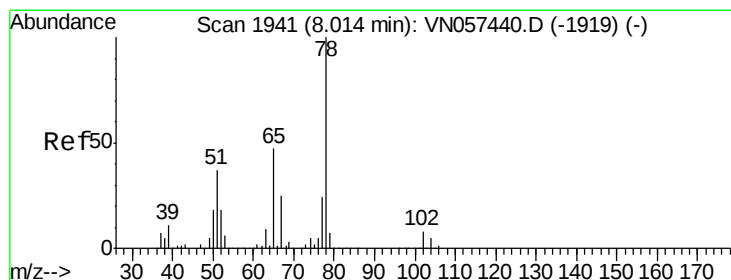
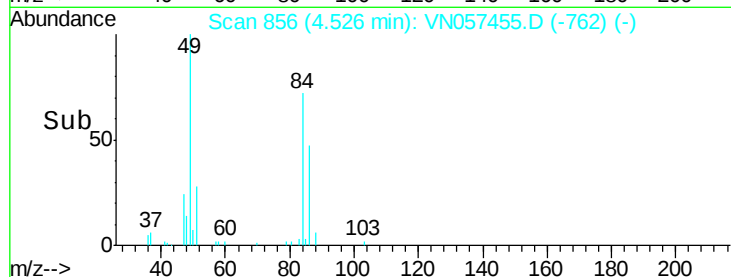
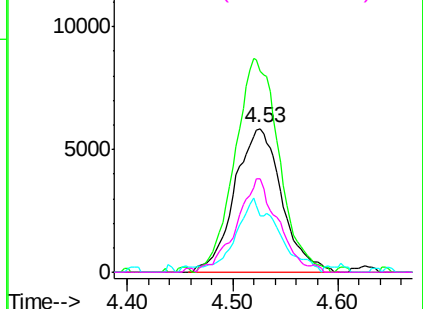


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

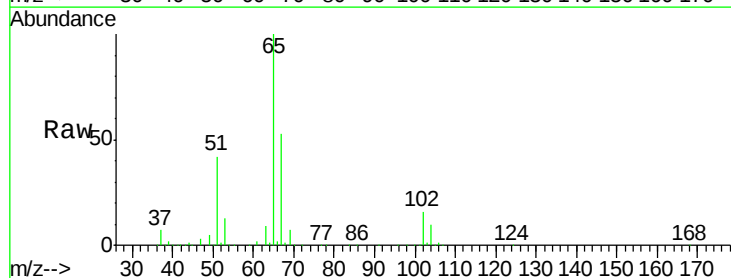
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



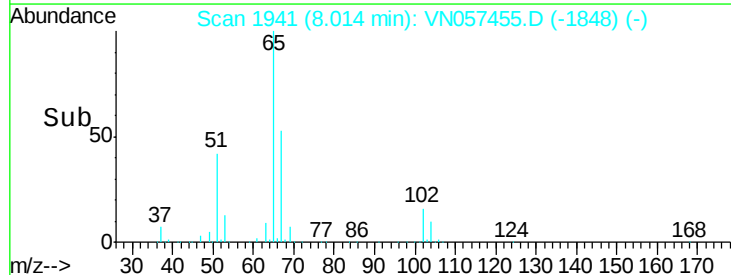
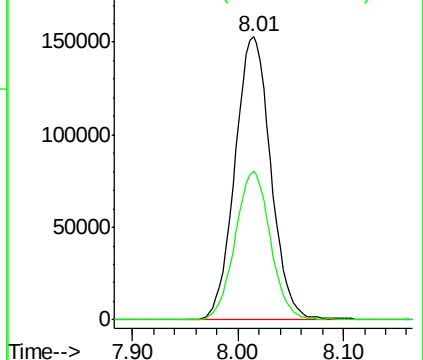
#33  
1,2-Dichloroethane-d4  
Concen: 47.539 ug/l  
RT: 8.01 min Scan# 1941  
Delta R.T. 0.00 min  
Lab File: VN057455.D  
Acq: 23 Aug 2019 1:05

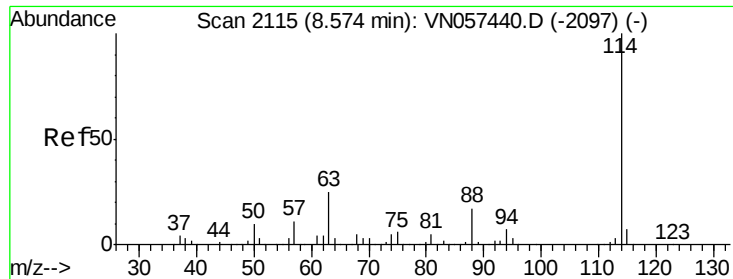
| Tgt Ion   | 65    | Resp  | 360403 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 65        | 100   |       |        |
| 67        | 51.7  | 0.0   | 103.8  |



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

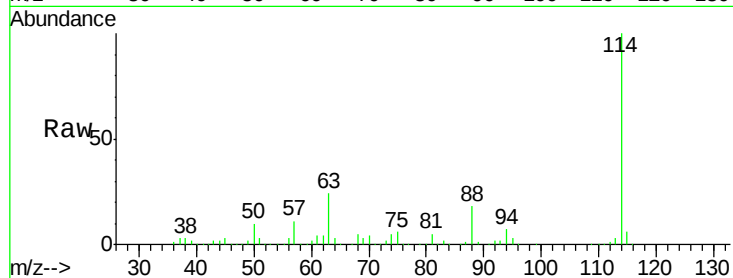




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN057455.D  
 Acq: 23 Aug 2019 1:05

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HD-02-082119

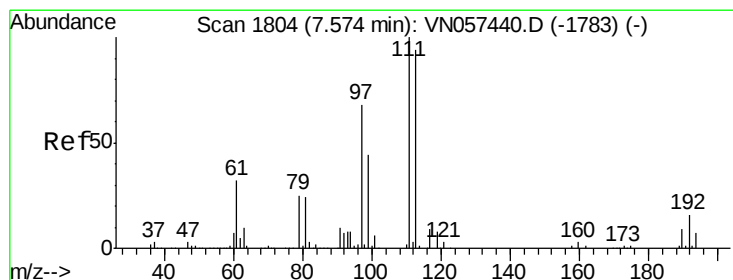
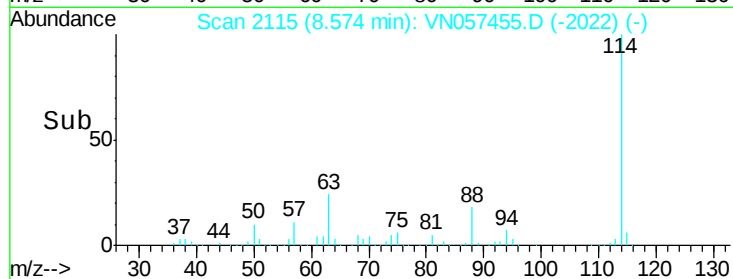
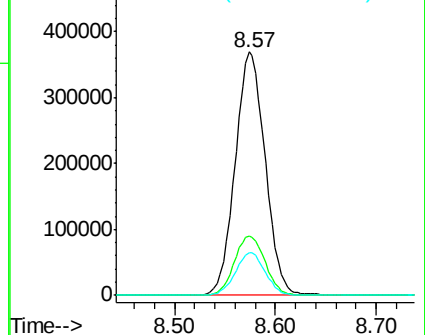
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.3  | 0.0   | 50.2  |
| 88      | 17.6  | 0.0   | 34.6  |



Abundance Ion 113.90 (113.60 to 114.60): V

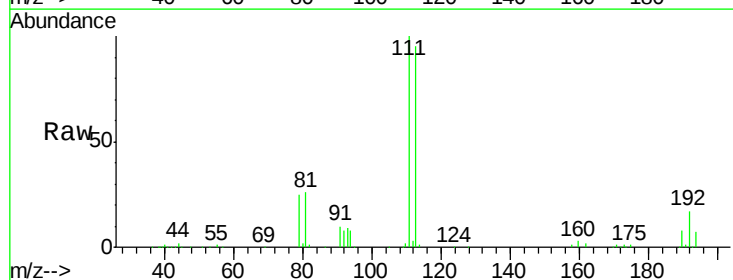
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35  
 Dibromofluoromethane  
 Concen: 46.159 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. 0.00 min  
 Lab File: VN057455.D  
 Acq: 23 Aug 2019 1:05

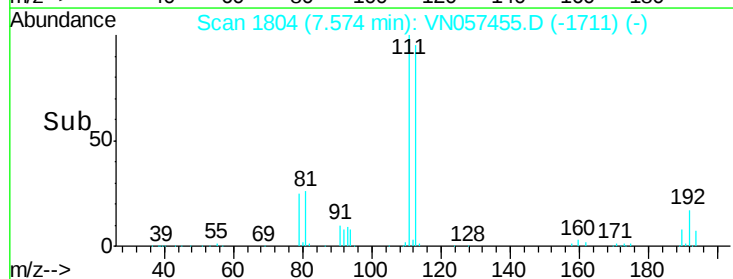
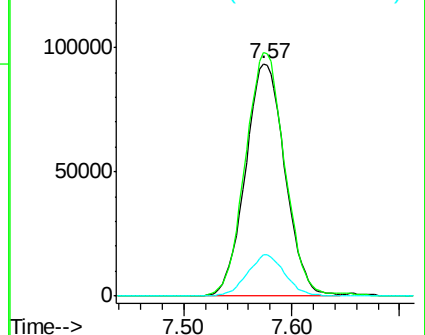
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.9 | 83.8  | 125.6 |
| 192     | 16.9  | 13.5  | 20.3  |

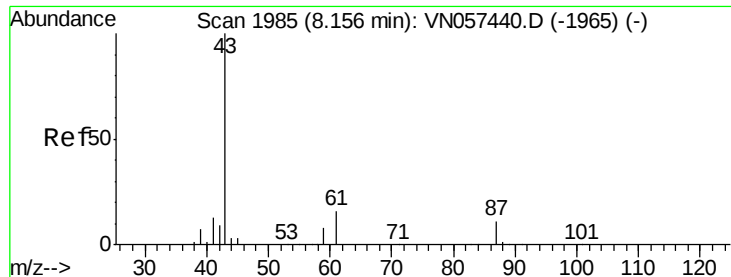


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#43

Isopropyl Acetate

Concen: 8.877 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057455.D

Acq: 23 Aug 2019 1:05

Instrument :

MSVOA\_N

ClientSampleId :

HD-02-082119

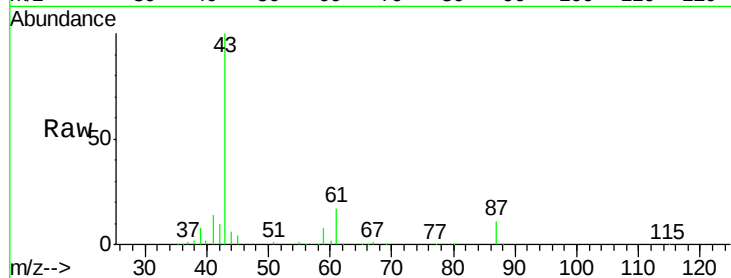
Tot Ion: 43 Resp: 125213

Ion Ratio Lower Upper

43 100

61 17.9 14.5 21.7

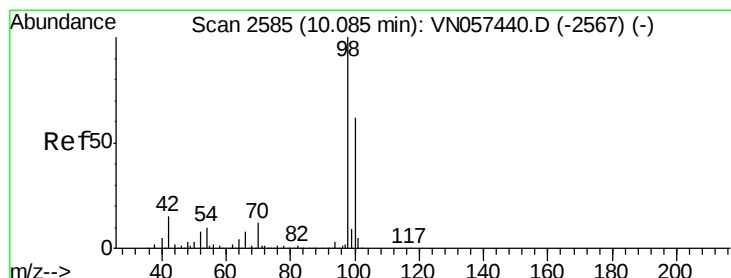
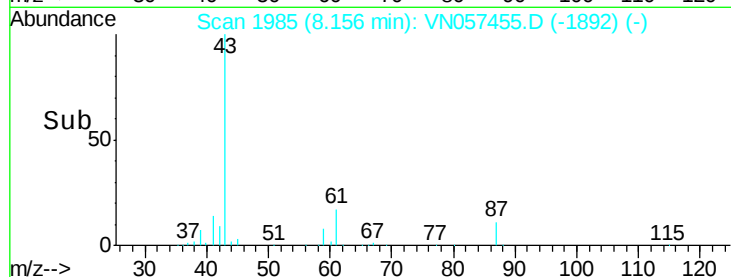
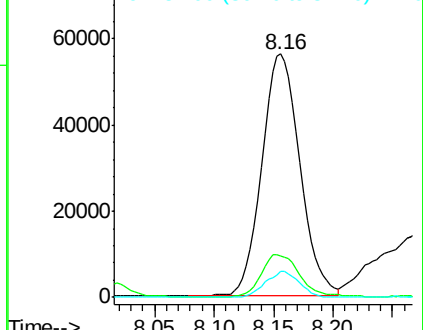
87 9.5 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 49.070 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057455.D

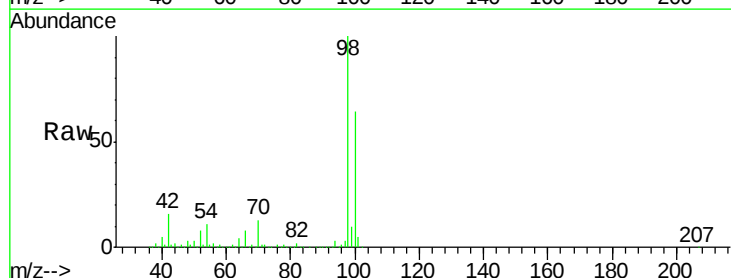
Acq: 23 Aug 2019 1:05

Tgt Ion: 98 Resp: 954903

Ion Ratio Lower Upper

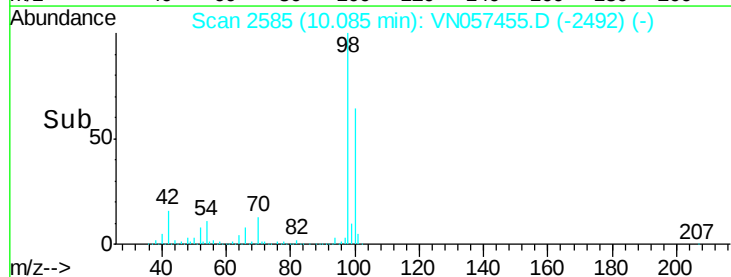
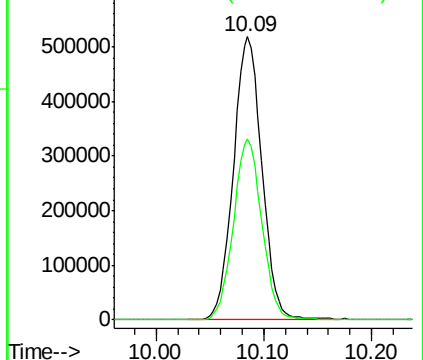
98 100

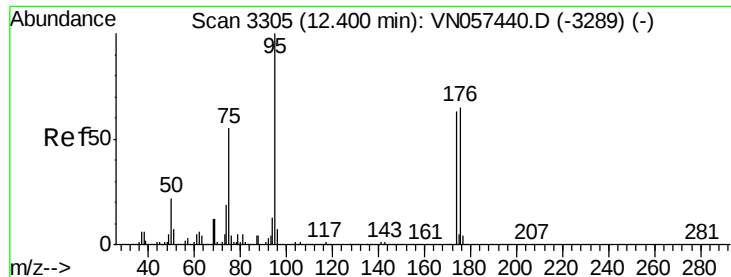
100 63.9 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 39.295 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057455.D

Acq: 23 Aug 2019 1:05

Instrument :

MSVOA\_N

ClientSampleId :

HD-02-082119

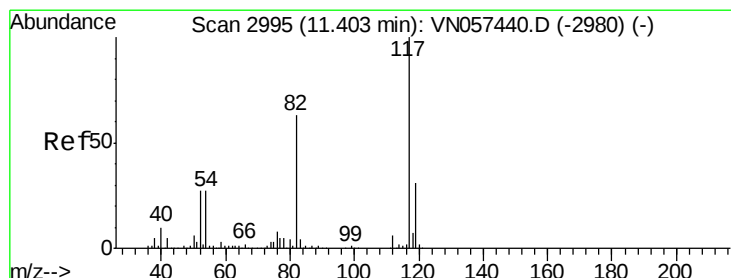
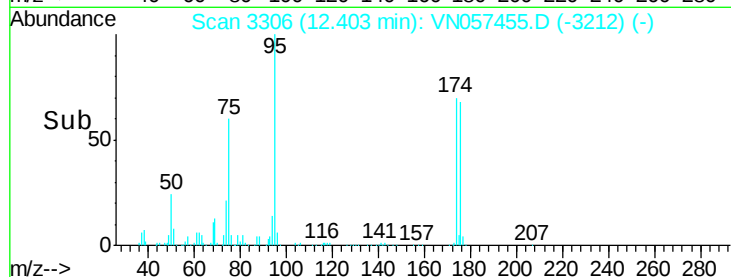
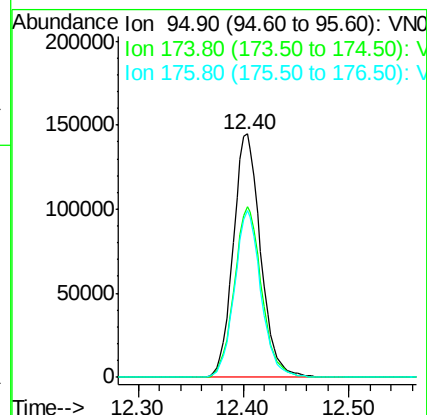
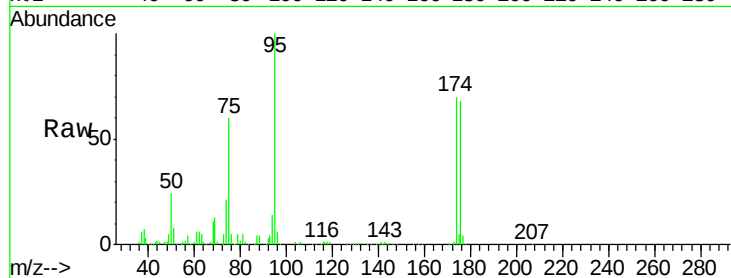
Tot Ion: 95 Resp: 259138

Ion Ratio Lower Upper

95 100

174 70.1 0.0 133.0

176 66.3 0.0 130.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057455.D

Acq: 23 Aug 2019 1:05

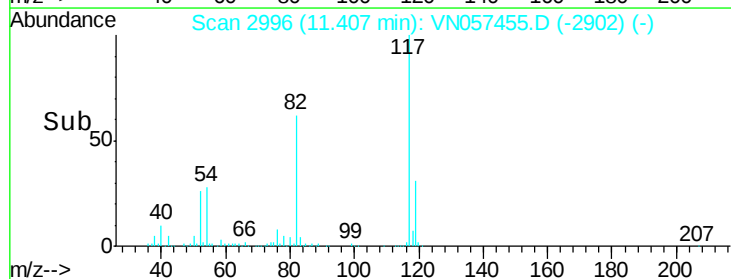
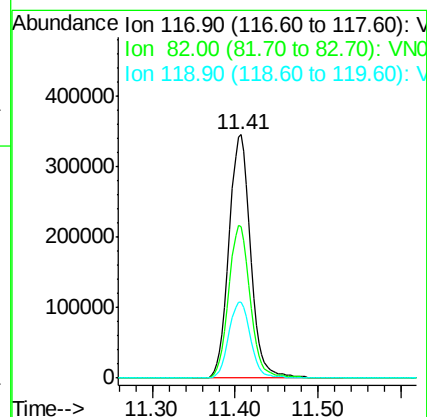
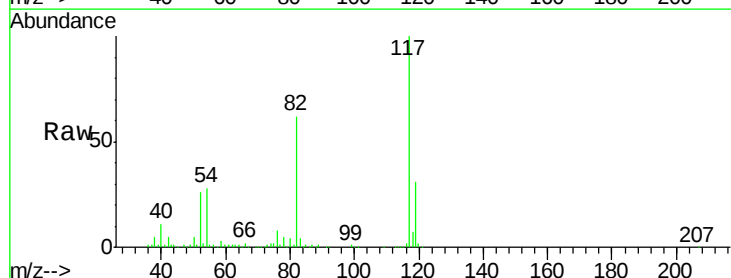
Tgt Ion: 117 Resp: 626997

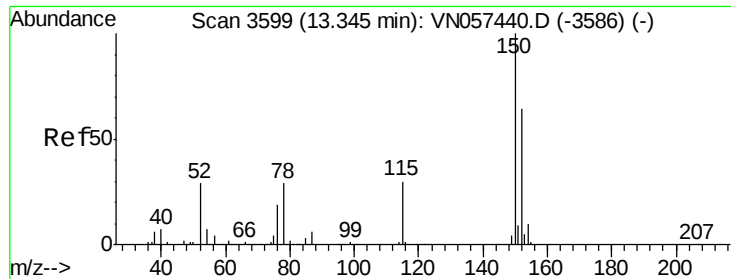
Ion Ratio Lower Upper

117 100

82 62.1 50.6 75.8

119 31.3 24.6 36.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057455.D

Acq: 23 Aug 2019 1:05

Instrument :

MSVOA\_N

ClientSampleId :

HD-02-082119

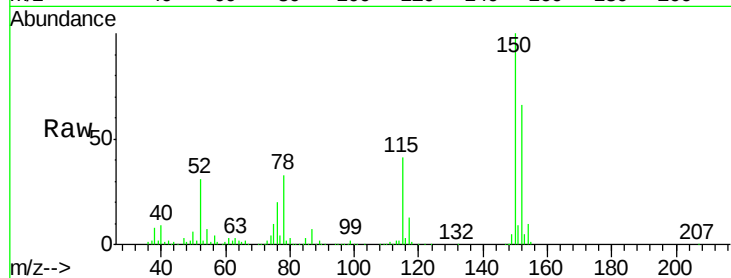
Tot Ion:152 Resp: 159172

Ion Ratio Lower Upper

152 100

115 64.5 32.0 96.0

150 156.6 0.0 346.6



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

