

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121919\  
 Data File : VN059670.D  
 Acq On : 19 Dec 2019 14:41  
 Operator : JC/SP  
 Sample : K6107-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HR-06-121819

Quant Time: Dec 20 03:27:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 13 23:17:39 2019  
 Response via : Initial Calibration

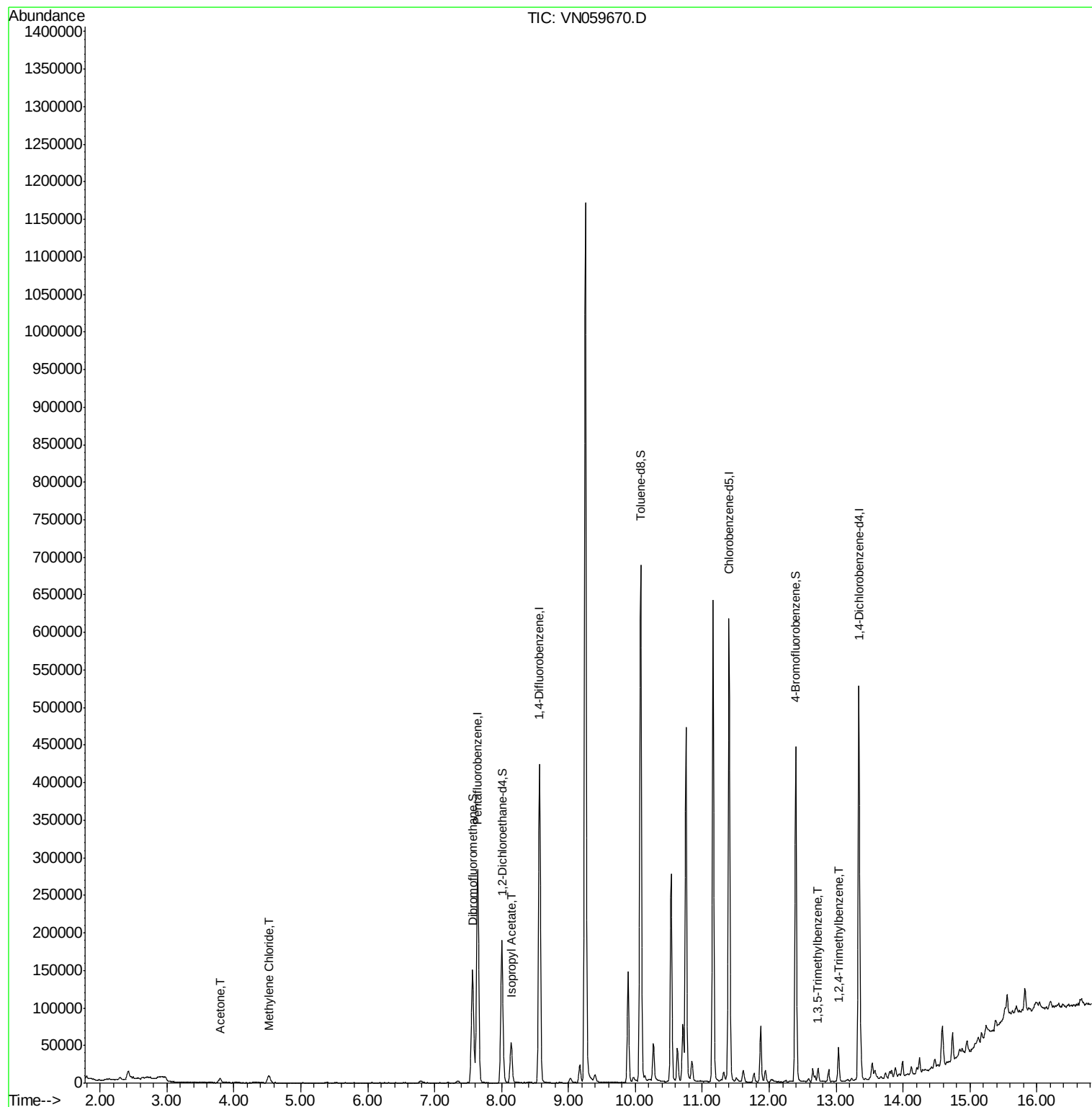
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 7.64  | 168  | 221374   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 360472   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.40 | 117  | 334380   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 134502   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 162512   | 50.45 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.90% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 113484   | 50.32 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.64% |          |
| 50) Toluene-d8              | 10.08 | 98   | 460027   | 51.52 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.04% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 152433   | 46.78 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 93.56%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 16) Acetone                 | 3.79  | 43   | 9635     | 5.038 | ug/l    | 95       |
| 20) Methylene Chloride      | 4.52  | 84   | 6940     | 2.513 | ug/l #  | 95       |
| 43) Isopropyl Acetate       | 8.14  | 43   | 63168    | 9.299 | ug/l #  | 90       |
| 80) 1,3,5-Trimethylbenzene  | 12.73 | 105  | 9308     | 1.042 | ug/l    | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.04 | 105  | 24258    | 2.730 | ug/l    | 97       |

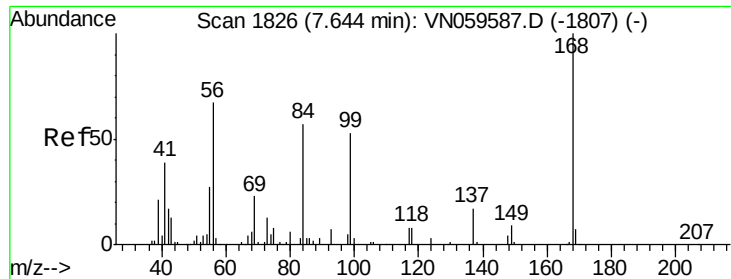
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121919\  
Data File : VN059670.D  
Acq On : 19 Dec 2019 14:41  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
HR-06-121819

Quant Time: Dec 20 03:27:56 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121319W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 13 23:17:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059670.D

Acq: 19 Dec 2019 14:41

Instrument :

MSVOA\_N

ClientSampled :

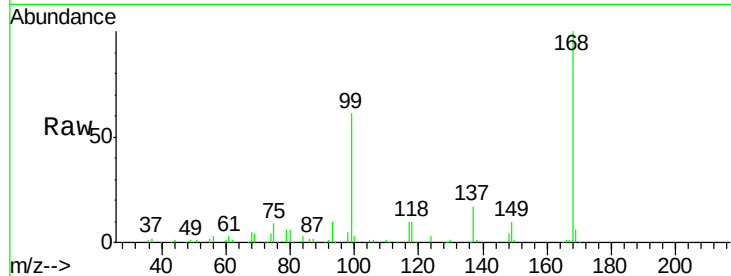
HR-06-121819

Tot Ion:168 Resp: 221374

Ion Ratio Lower Upper

168 100

99 60.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

100000

80000

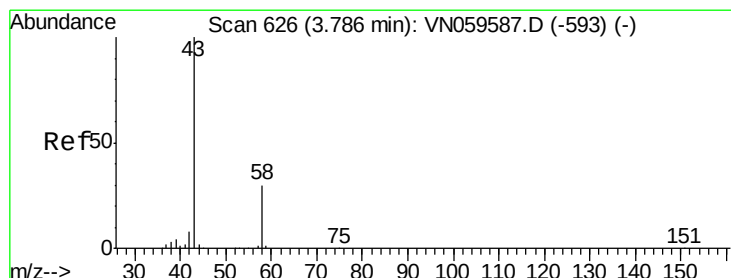
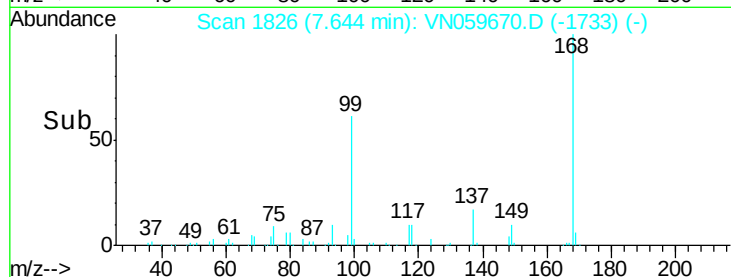
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 5.038 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059670.D

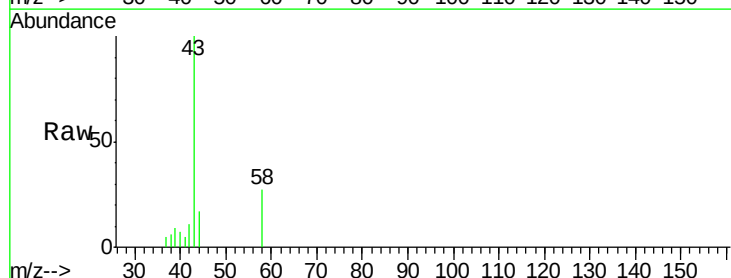
Acq: 19 Dec 2019 14:41

Tgt Ion: 43 Resp: 9635

Ion Ratio Lower Upper

43 100

58 26.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.79

4000

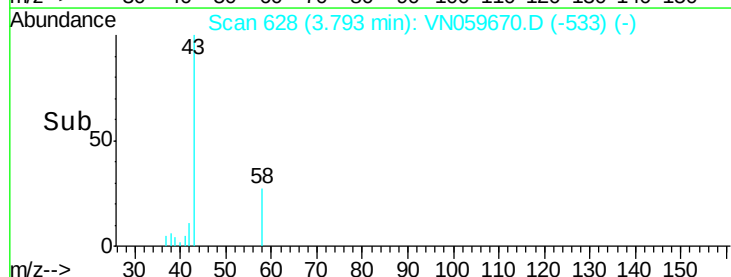
3000

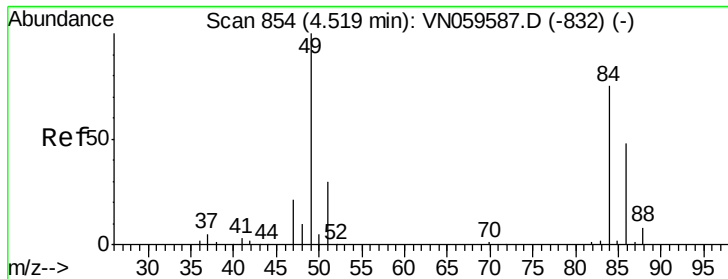
2000

1000

0

Time-->

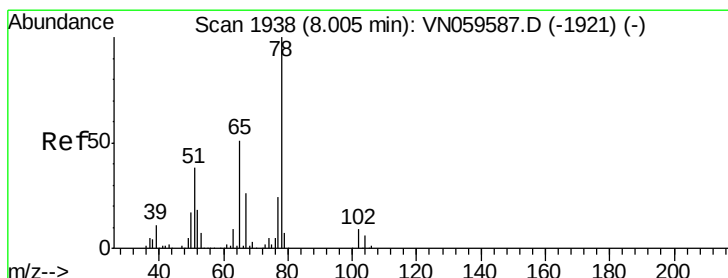
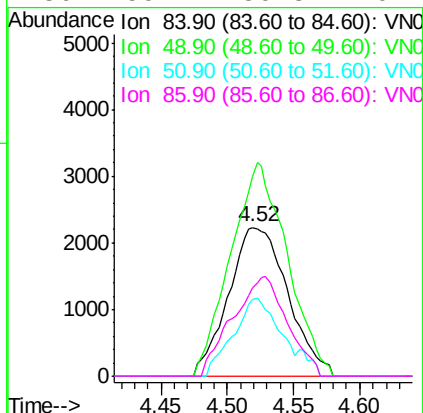
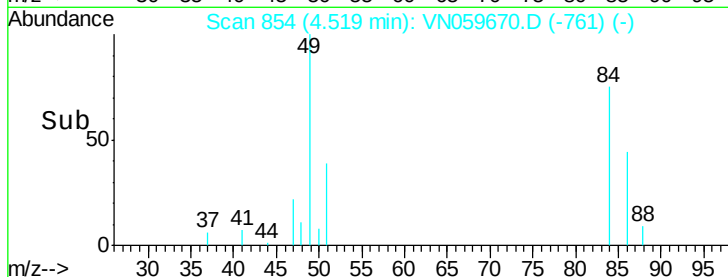
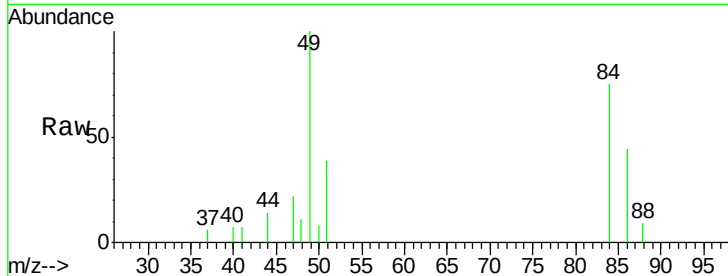




#20  
Methylene Chloride  
Concen: 2.513 ug/l  
RT: 4.52 min Scan# 854  
Delta R.T. 0.00 min  
Lab File: VN059670.D  
Acq: 19 Dec 2019 14:41

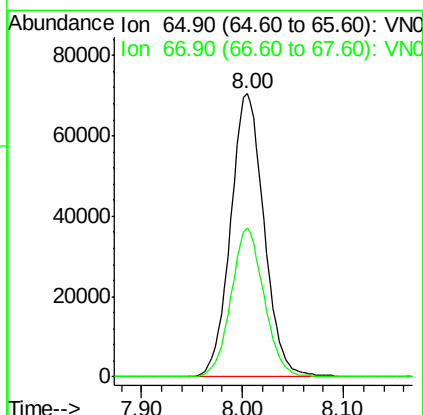
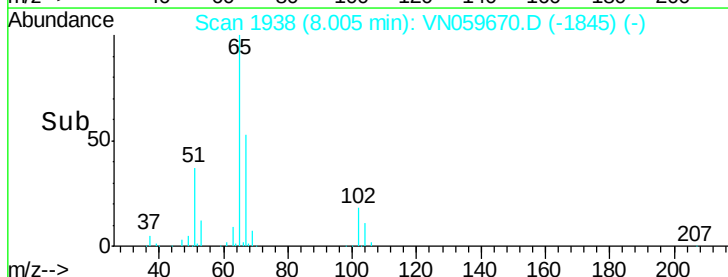
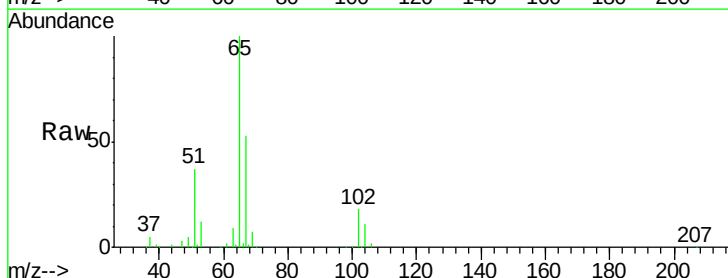
Instrument :  
MSVOA\_N  
ClientSampleId :  
HR-06-121819

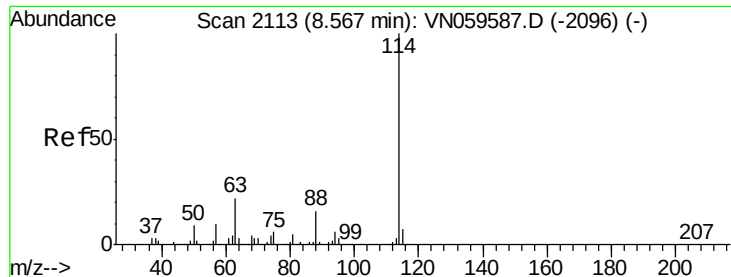
Tot Ion: 84 Resp: 6940  
Ion Ratio Lower Upper  
84 100  
49 134.1 106.6 160.0  
51 51.8 31.9 47.9#  
86 59.1 50.8 76.2



#33  
1,2-Dichloroethane-d4  
Concen: 50.449 ug/l  
RT: 8.00 min Scan# 1938  
Delta R.T. 0.00 min  
Lab File: VN059670.D  
Acq: 19 Dec 2019 14:41

Tgt Ion: 65 Resp: 162512  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 103.0

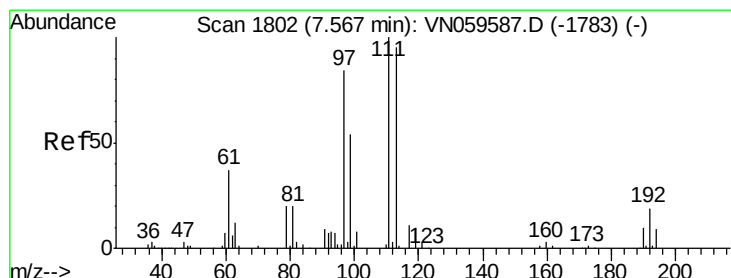
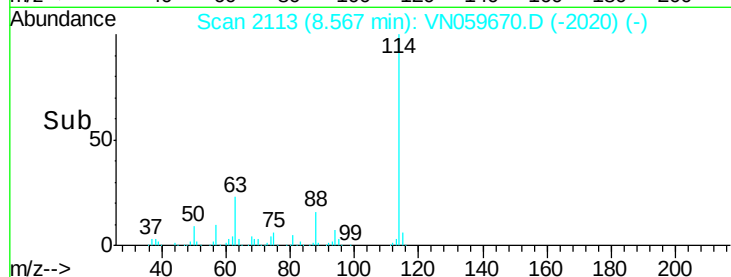
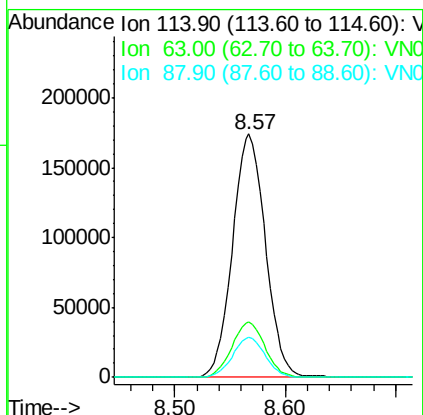
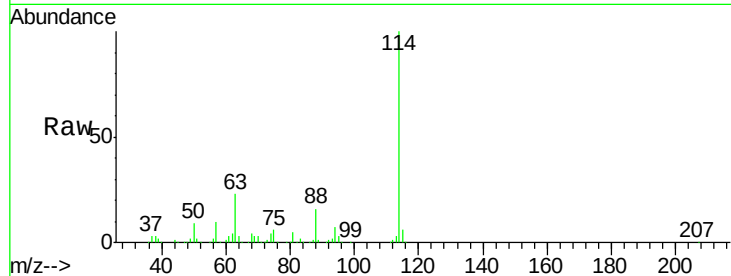




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VN059670.D  
 Acq: 19 Dec 2019 14:41

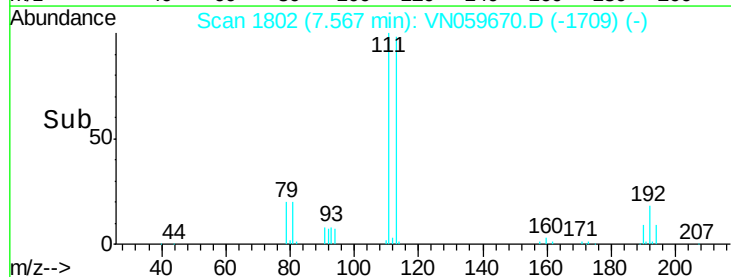
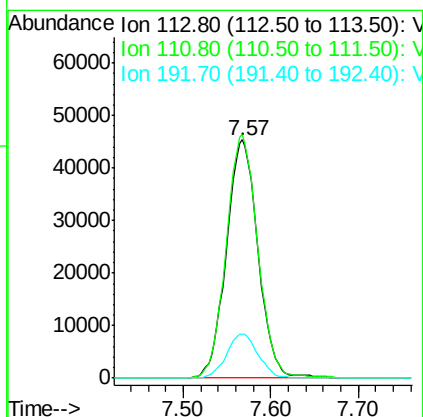
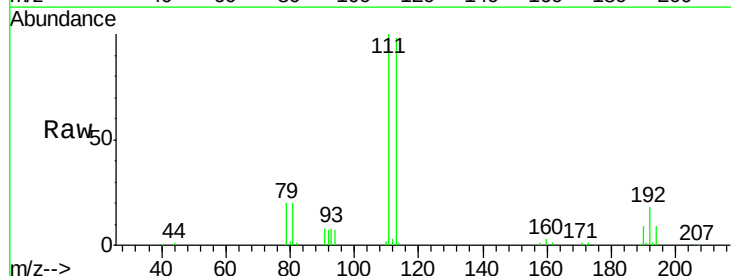
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HR-06-121819

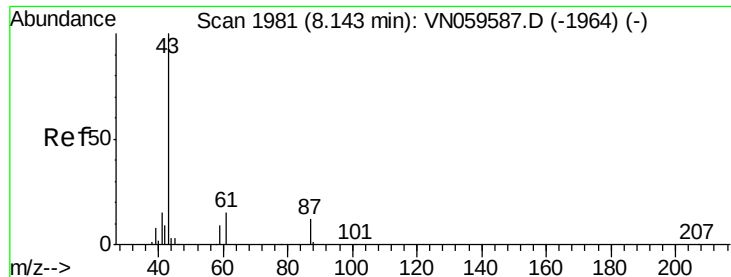
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.7  | 0.0   | 43.6  |
| 88      | 16.4  | 0.0   | 31.4  |



#35  
 Dibromofluoromethane  
 Concen: 50.316 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. 0.00 min  
 Lab File: VN059670.D  
 Acq: 19 Dec 2019 14:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 83.5  | 125.3 |
| 192     | 18.5  | 15.4  | 23.2  |





#43

Isopropyl Acetate

Concen: 9.299 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059670.D

Acq: 19 Dec 2019 14:41

Instrument :

MSVOA\_N

ClientSampleId :

HR-06-121819

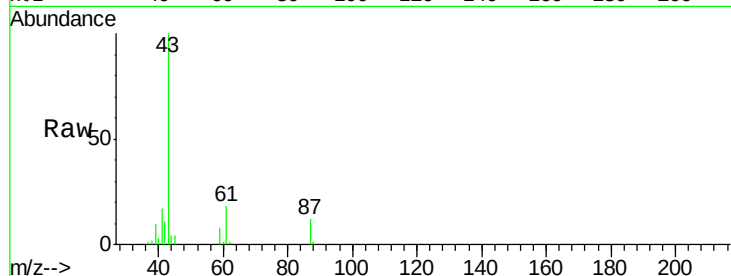
Tot Ion: 43 Resp: 63168

Ion Ratio Lower Upper

43 100

61 18.2 20.2 30.2#

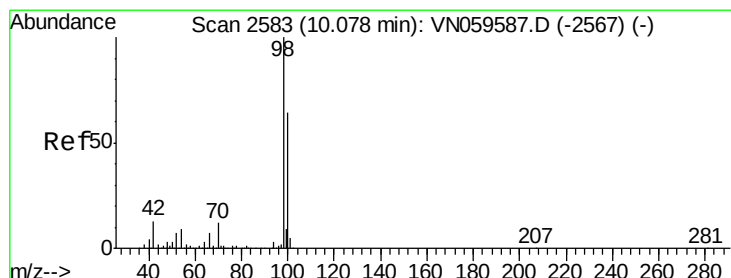
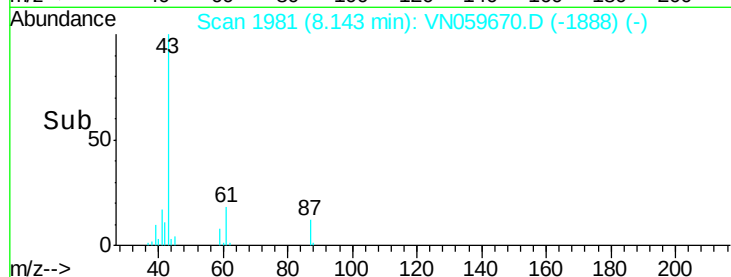
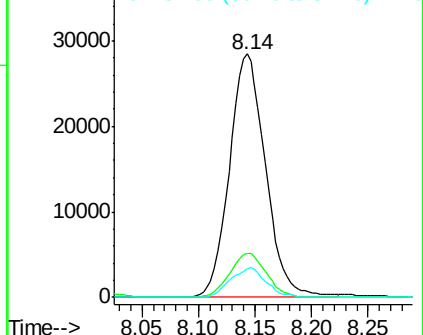
87 12.0 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN059587.D (-1964) (-)

Ion 61.00 (60.70 to 61.70): VN059587.D (-1964) (-)

Ion 87.00 (86.70 to 87.70): VN059587.D (-1964) (-)



#50

Toluene-d8

Concen: 51.517 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059670.D

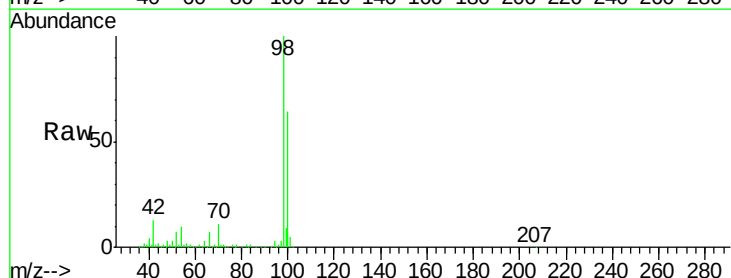
Acq: 19 Dec 2019 14:41

Tgt Ion: 98 Resp: 460027

Ion Ratio Lower Upper

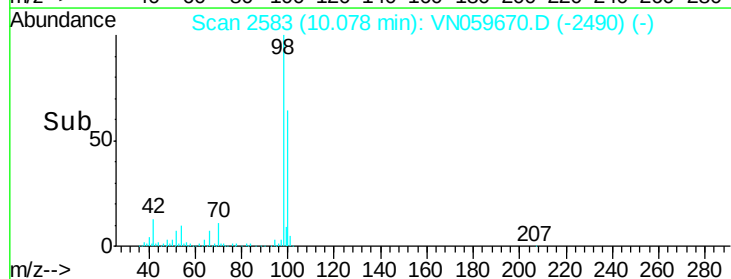
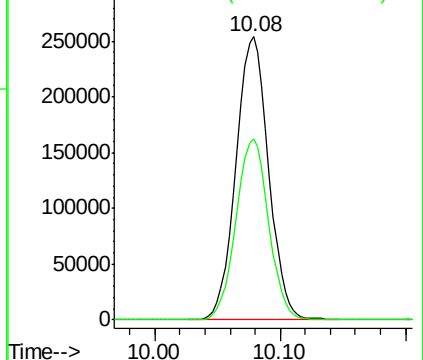
98 100

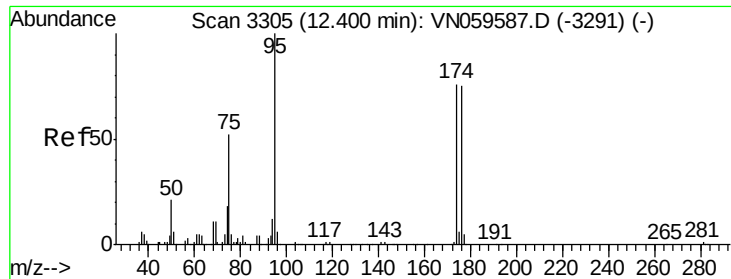
100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059587.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN059587.D (-2567) (-)





#62

4-Bromofluorobenzene

Concen: 46.783 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN059670.D

Acq: 19 Dec 2019 14:41

Instrument :

MSVOA\_N

ClientSampleId :

HR-06-121819

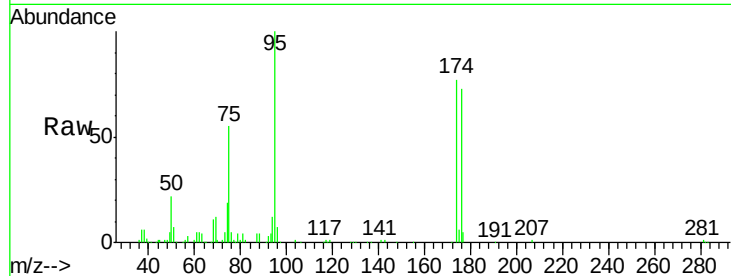
Tot Ion: 95 Resp: 152433

Ion Ratio Lower Upper

95 100

174 76.7 0.0 151.4

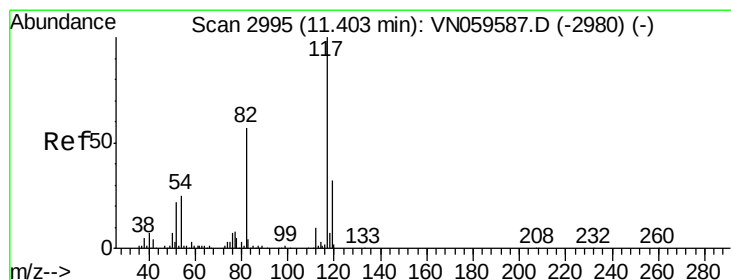
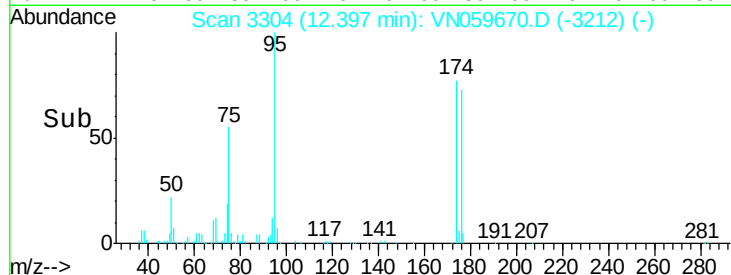
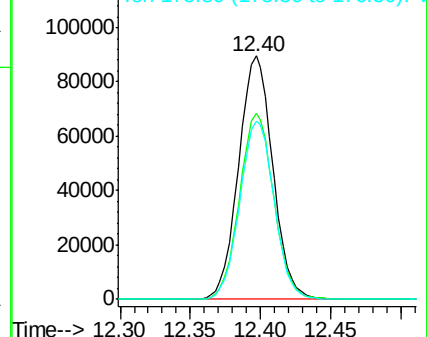
176 73.5 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059587.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059587.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059587.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN059670.D

Acq: 19 Dec 2019 14:41

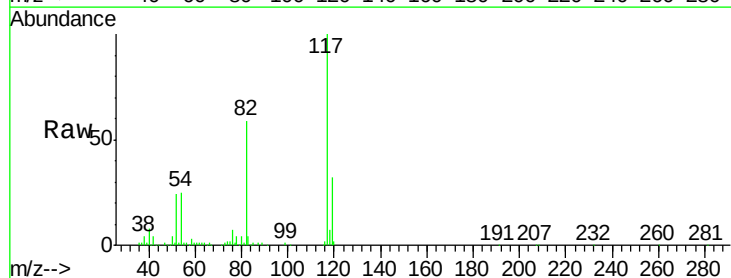
Tgt Ion: 117 Resp: 334380

Ion Ratio Lower Upper

117 100

82 59.2 45.9 68.9

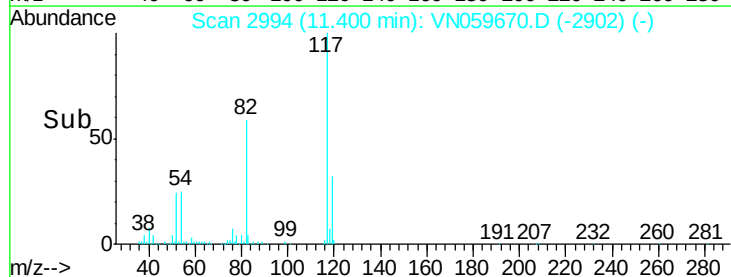
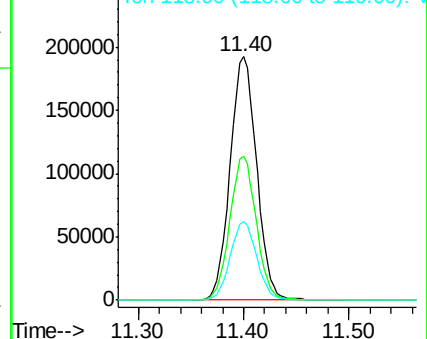
119 32.1 25.5 38.3

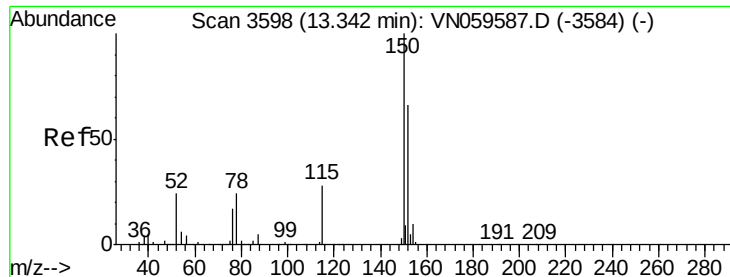


Abundance Ion 116.90 (116.60 to 117.60): VN059587.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN059587.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN059587.D (-2980) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN059670.D

Acq: 19 Dec 2019 14:41

Instrument :

MSVOA\_N

ClientSampleId :

HR-06-121819

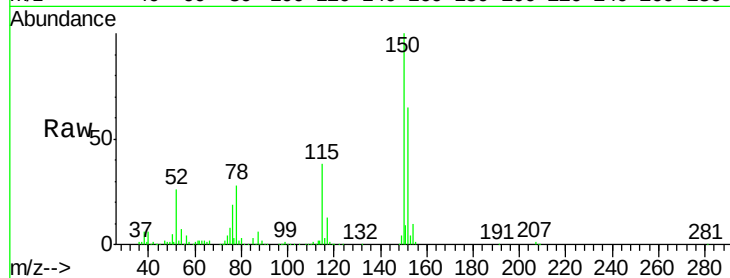
Tot Ion:152 Resp: 134502

Ion Ratio Lower Upper

152 100

115 61.0 30.3 90.9

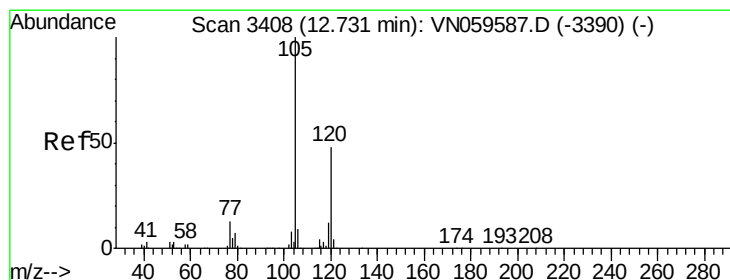
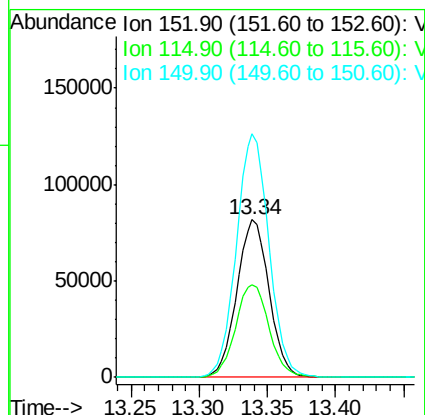
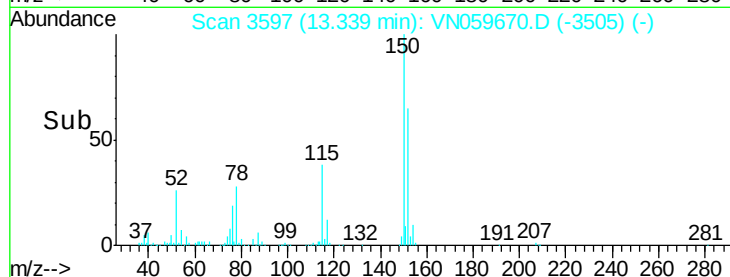
150 155.5 0.0 345.2



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



#80

1,3,5-Trimethylbenzene

Concen: 1.042 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN059670.D

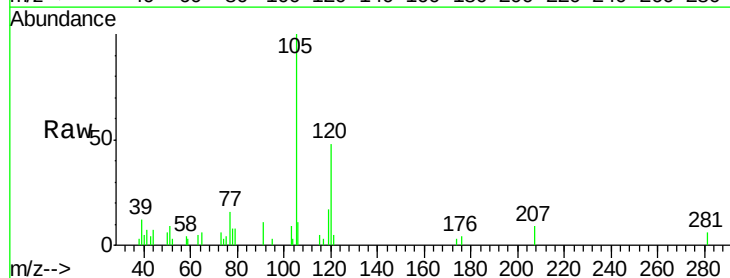
Acq: 19 Dec 2019 14:41

Tgt Ion:105 Resp: 9308

Ion Ratio Lower Upper

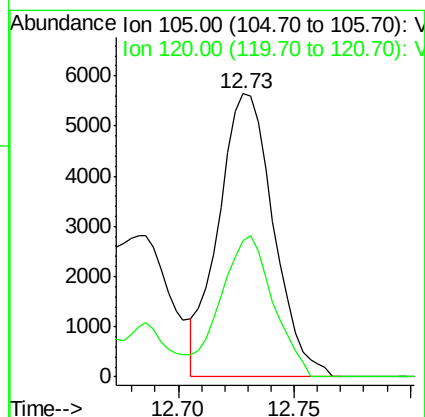
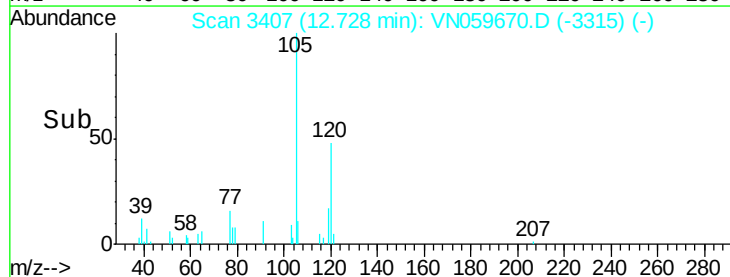
105 100

120 48.0 24.1 72.4

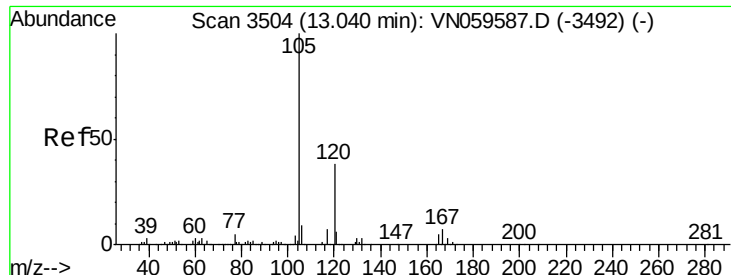


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V







#84

1,2,4-Trimethylbenzene

Concen: 2.730 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN059670.D

Acq: 19 Dec 2019 14:41

Instrument :

MSVOA\_N

ClientSampleId :

HR-06-121819

Tot Ion:105 Resp: 24258

Ion Ratio Lower Upper

105 100

120 46.5 22.3 66.9

