

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110819\  
 Data File : VN059139.D  
 Acq On : 8 Nov 2019 17:21  
 Operator : JC/SP  
 Sample : K5742-10  
 Misc : 3.87g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SB-38-(2-4)

Quant Time: Nov 11 00:58:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 07 04:00:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 446749   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.56  | 114  | 689584   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 601762   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 244069   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 278390   | 50.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.38% |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 213510   | 51.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.70% |          |
| 50) Toluene-d8              | 10.08 | 98   | 859994   | 53.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.06% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 277719   | 47.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.98%  |          |

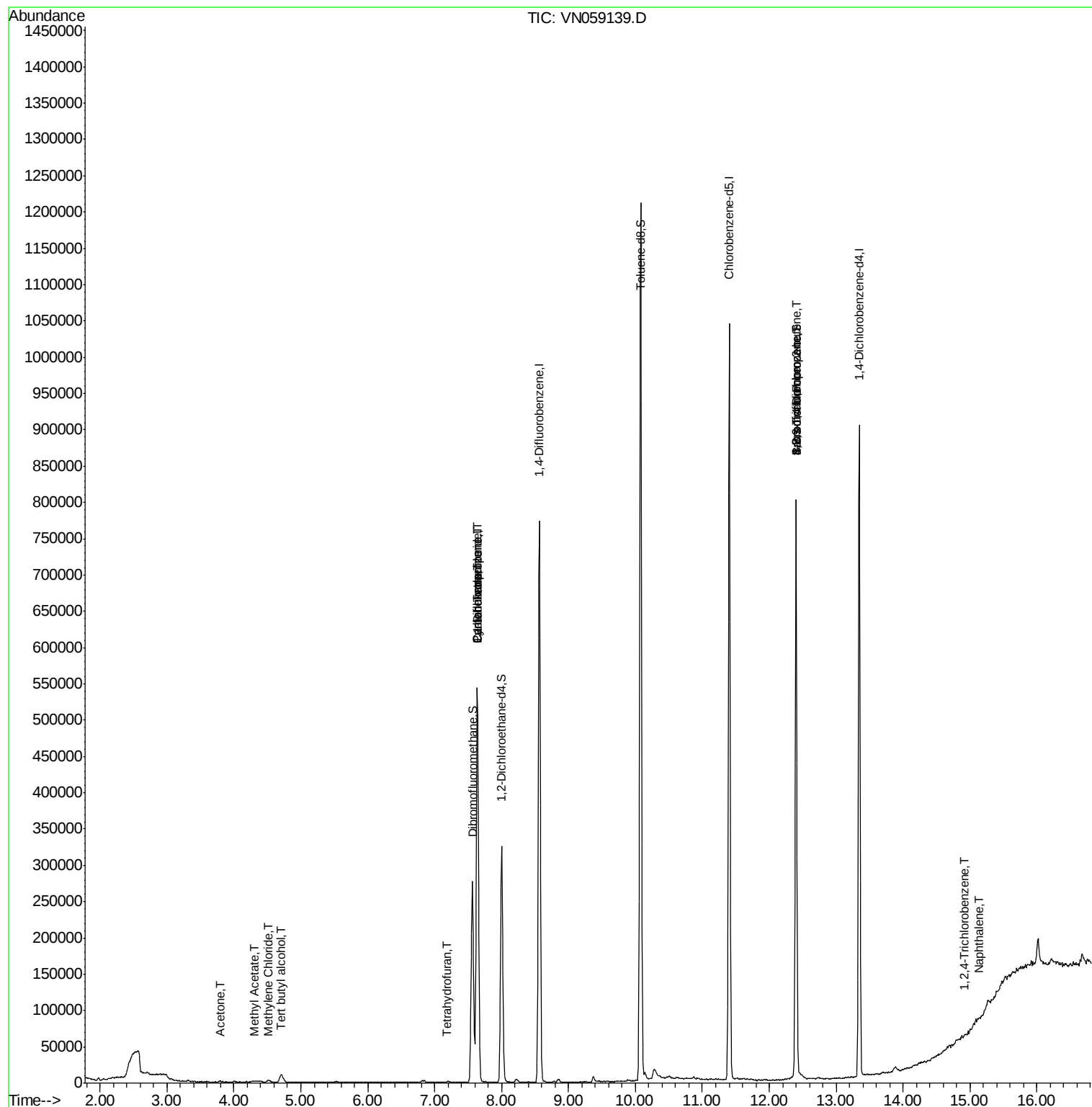
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.70  | 59   | 11455    | 10.945 | ug/l # | 72     |
| 16) Acetone                    | 3.80  | 43   | 703      | 0.246  | ug/l # | 44     |
| 18) Methyl Acetate             | 4.30  | 43   | 1639     | 0.242  | ug/l # | 53     |
| 20) Methylene Chloride         | 4.50  | 84   | 1020     | 0.205  | ug/l   | 93     |
| 29) Tetrahydrofuran            | 7.19  | 42   | 816      | 0.341  | ug/l # | 73     |
| 31) Cyclohexane                | 7.64  | 56   | 7906     | 0.925  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 34377    | 5.333  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 42652    | 6.648  | ug/l # | 17     |
| 71) Bromoform                  | 12.40 | 173  | 1825     | 0.533  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 139189   | 25.049 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 139189   | 66.162 | ug/l # | 13     |
| 93) 1,2,4-Trichlorobenzene     | 14.90 | 180  | 275      | 3.103  | ug/l   | 90     |
| 95) Naphthalene                | 15.13 | 128  | 1892     | 3.185  | ug/l # | 81     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN110819\  
Data File : VN059139.D  
Acq On : 8 Nov 2019 17:21  
Operator : JC/SP  
Sample : K5742-10  
Misc : 3.87µL/5mL/100µL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
SB-38-(2-4)

Quant Time: Nov 11 00:58:08 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 07 04:00:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.01 min

Lab File: VN059139.D

Acq: 8 Nov 2019 17:21

Instrument :

MSVOA\_N

ClientSampleId :

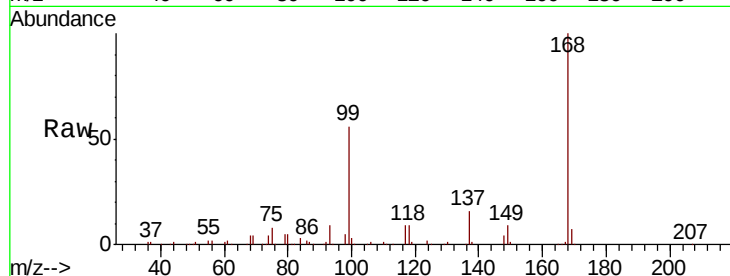
SB-38-(2-4)

Tot Ion:168 Resp: 446749

Ion Ratio Lower Upper

168 100

99 55.6 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

200000

150000

100000

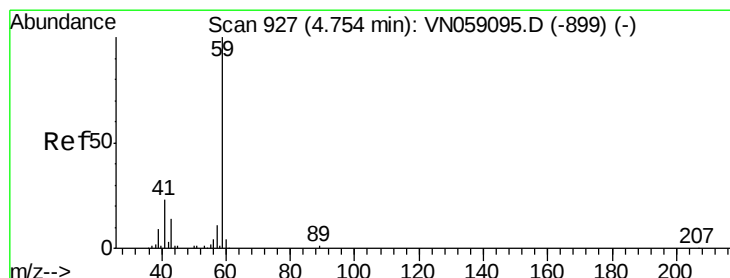
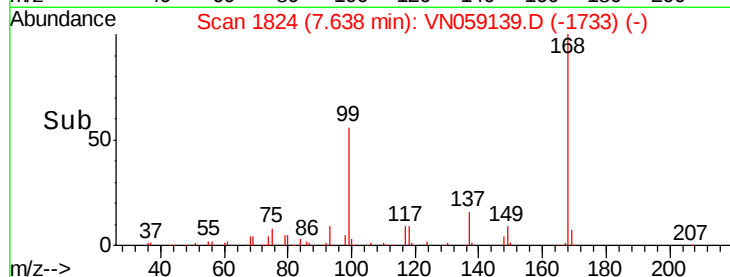
50000

0

7.60

7.70

Time-->



#11

Tert butyl alcohol

Concen: 10.945 ug/l

RT: 4.70 min Scan# 910

Delta R.T. -0.05 min

Lab File: VN059139.D

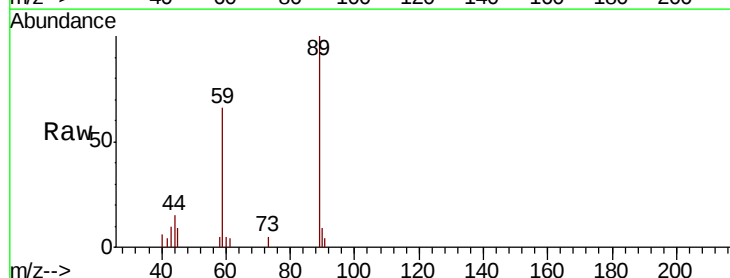
Acq: 8 Nov 2019 17:21

Tgt Ion: 59 Resp: 11455

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.70

3000

2000

1000

0

4.60

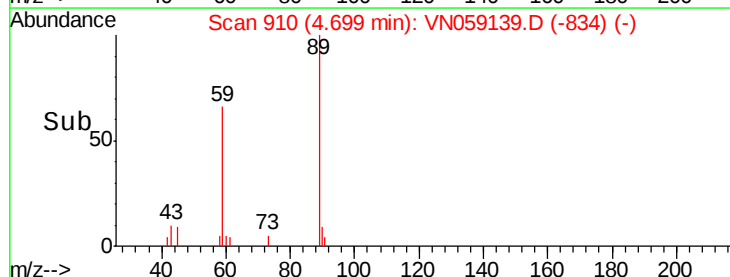
4.65

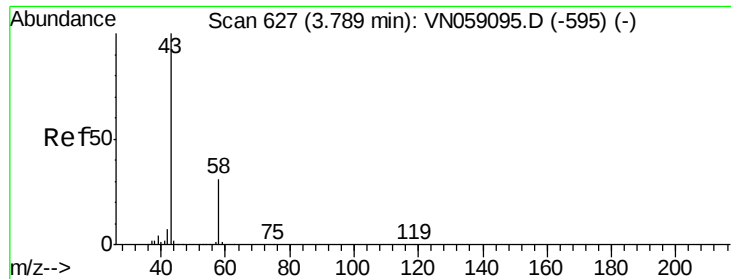
4.70

4.75

4.80

Time-->





#16

Acetone

Concen: 0.246 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059139.D

Acq: 8 Nov 2019 17:21

Instrument :

MSVOA\_N

ClientSampleId :

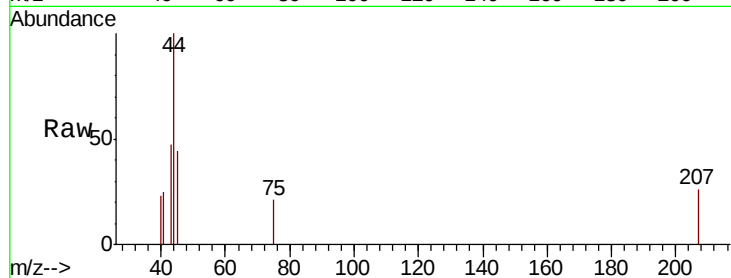
SB-38-(2-4)

Tot Ion: 43 Resp: 703

Ion Ratio Lower Upper

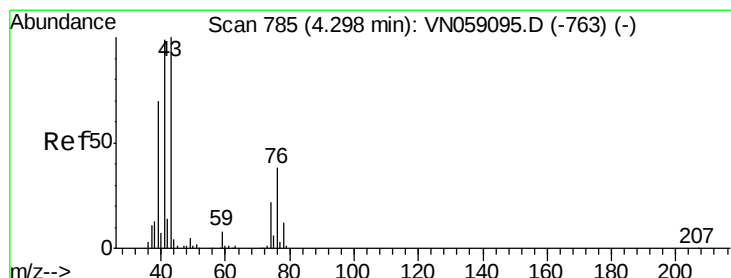
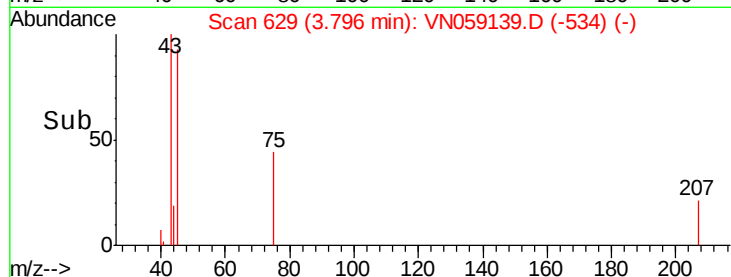
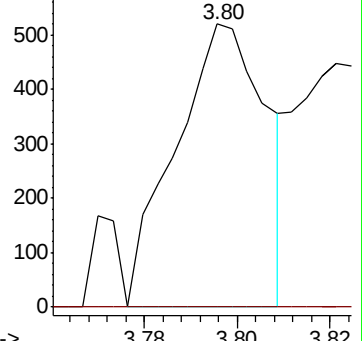
43 100

58 0.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.242 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.01 min

Lab File: VN059139.D

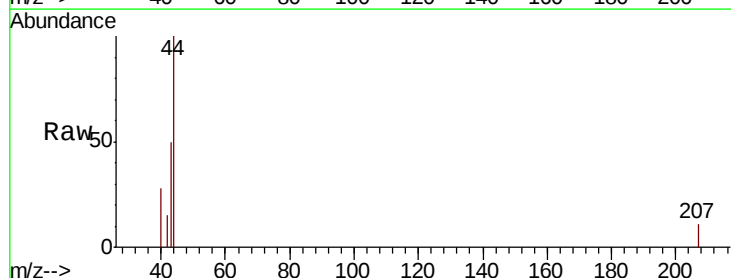
Acq: 8 Nov 2019 17:21

Tgt Ion: 43 Resp: 1639

Ion Ratio Lower Upper

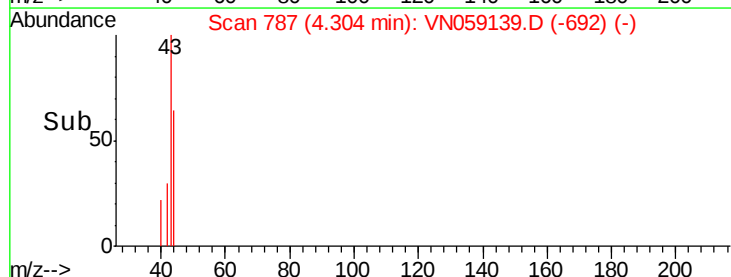
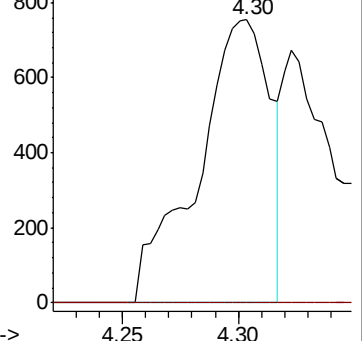
43 100

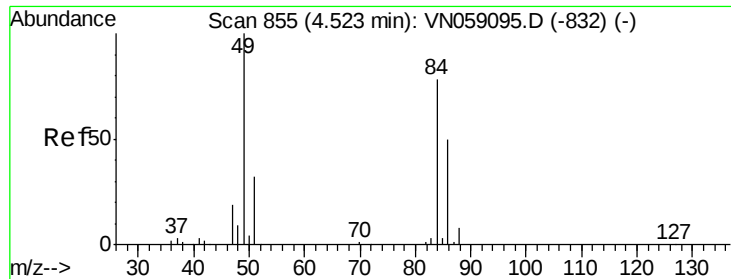
74 0.0 17.8 26.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

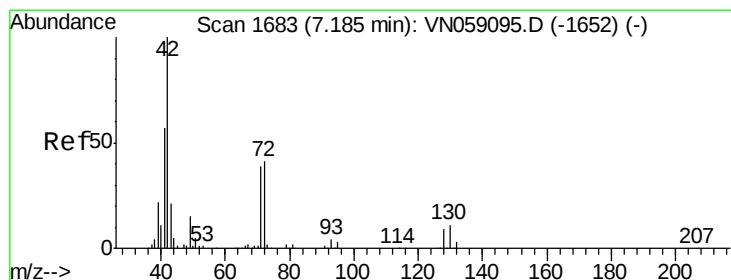
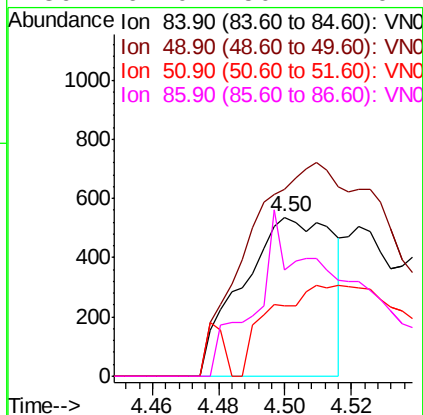
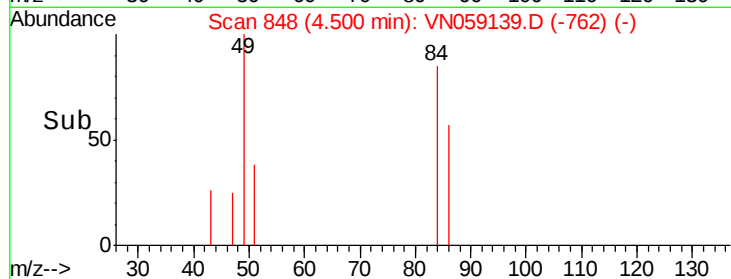
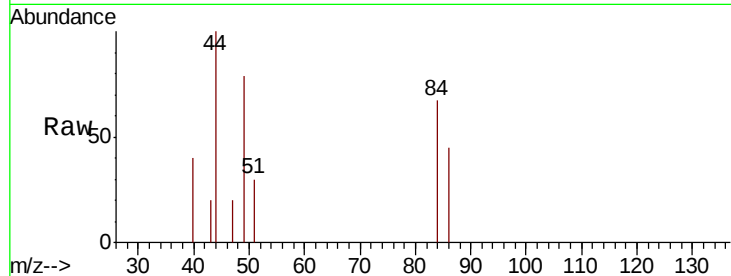




#20  
Methvlene Chloride  
Concen: 0.205 ug/l  
RT: 4.50 min Scan# 848  
Delta R.T. -0.02 min  
Lab File: VN059139.D  
Acq: 8 Nov 2019 17:21

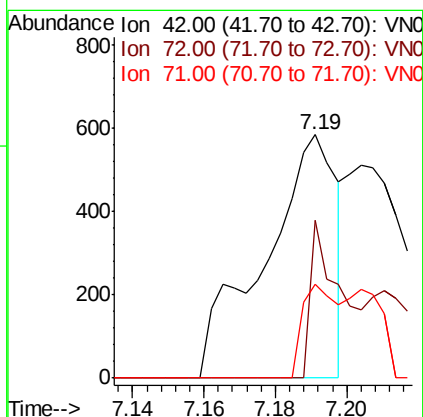
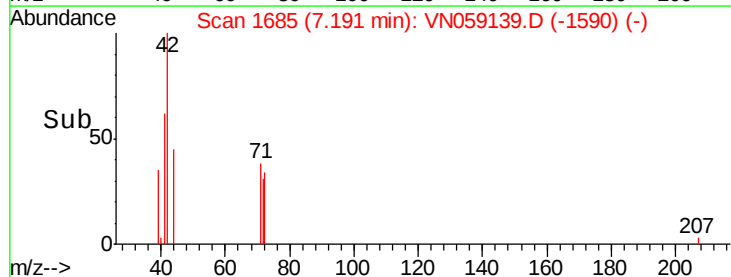
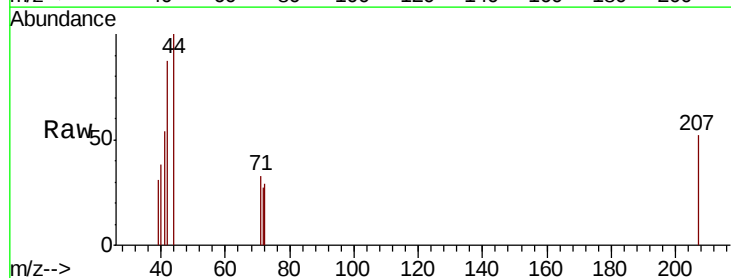
Instrument :  
MSVOA\_N  
ClientSampled :  
SB-38-(2-4)

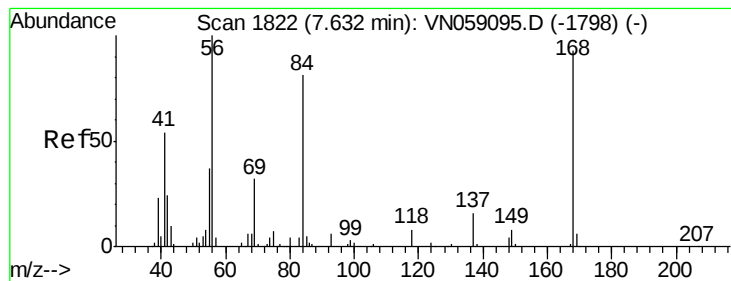
Tot Ion: 84 Resp: 1020  
Ion Ratio Lower Upper  
84 100  
49 117.5 102.0 153.0  
51 44.4 32.2 48.2  
86 67.0 50.7 76.1



#29  
Tetrahydrofuran  
Concen: 0.341 ug/l  
RT: 7.19 min Scan# 1685  
Delta R.T. 0.01 min  
Lab File: VN059139.D  
Acq: 8 Nov 2019 17:21

Tgt Ion: 42 Resp: 816  
Ion Ratio Lower Upper  
42 100  
72 27.8 33.1 49.7#  
71 18.5 30.9 46.3#





#31

Cyclohexane

Concen: 0.925 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN059139.D

Acq: 8 Nov 2019 17:21

Instrument :

MSVOA\_N

ClientSampleId :

SB-38-(2-4)

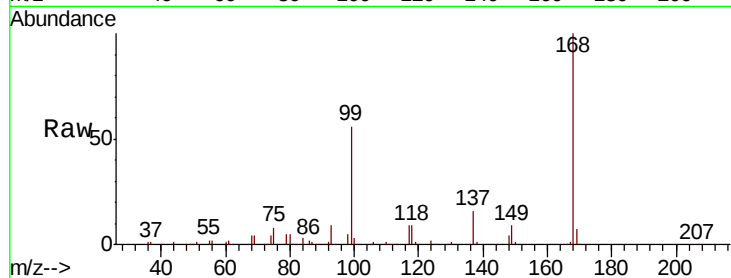
Tot Ion: 56 Resp: 7906

Ion Ratio Lower Upper

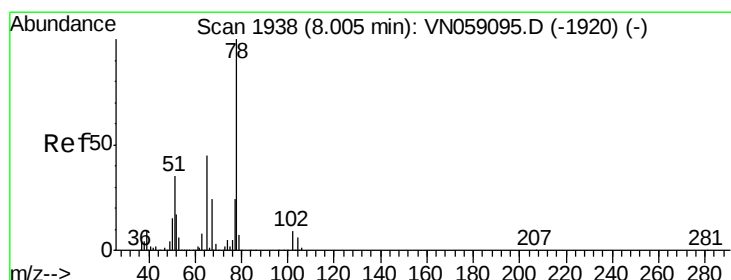
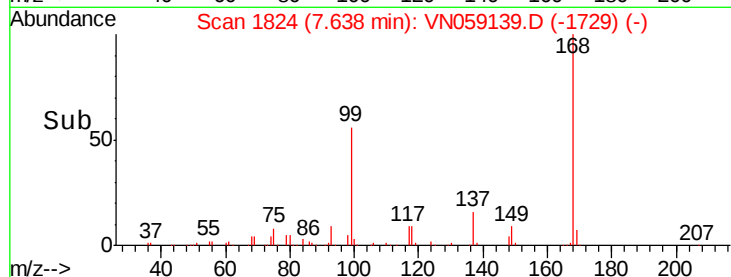
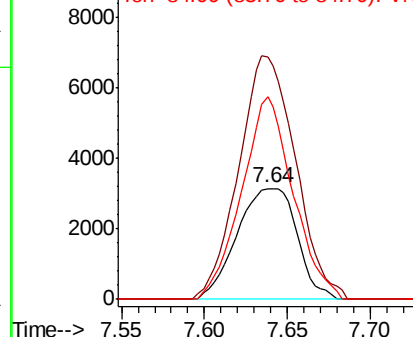
56 100

69 218.7 25.8 38.8#

84 182.9 65.0 97.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 84.00 (83.70 to 84.70): VNO



#33

1,2-Dichloroethane-d4

Concen: 50.693 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN059139.D

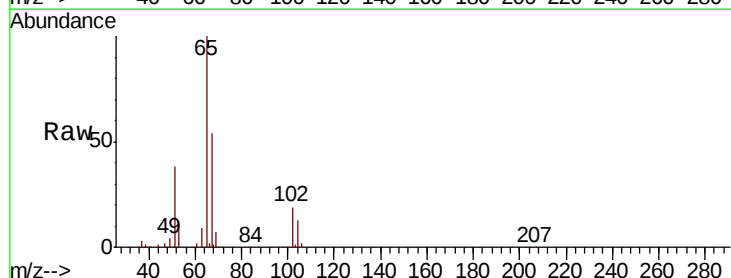
Acq: 8 Nov 2019 17:21

Tgt Ion: 65 Resp: 278390

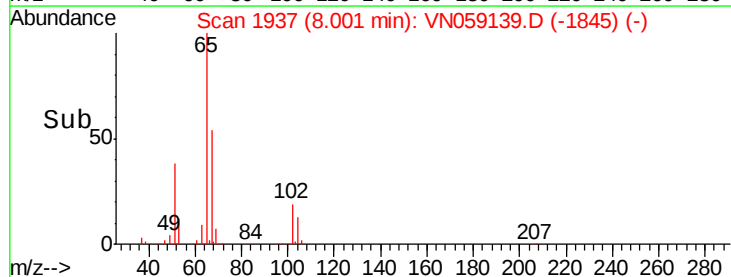
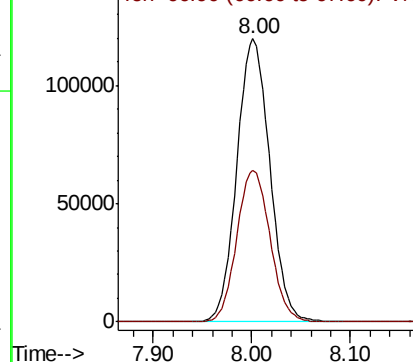
Ion Ratio Lower Upper

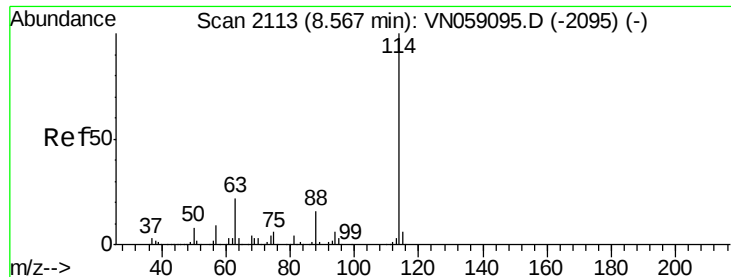
65 100

67 54.1 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VNO  
Ion 66.90 (66.60 to 67.60): VNO

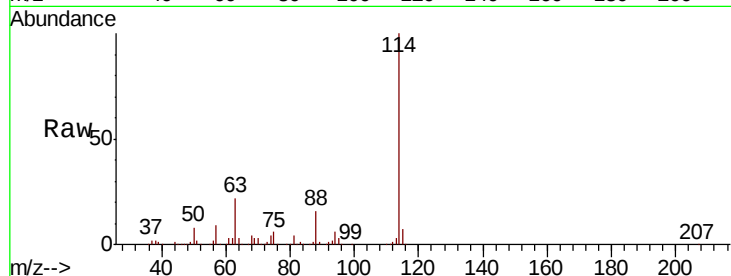




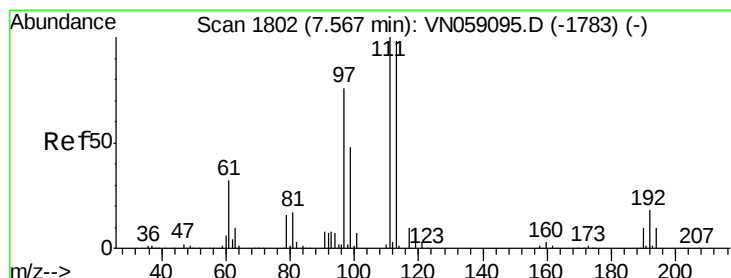
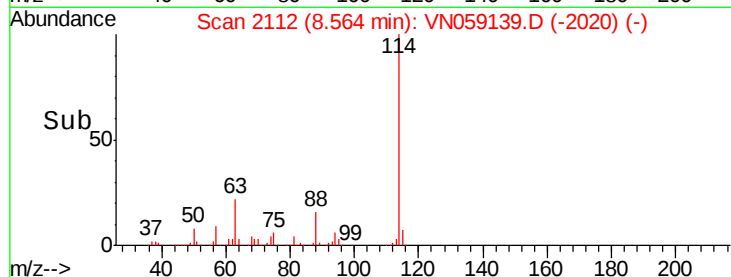
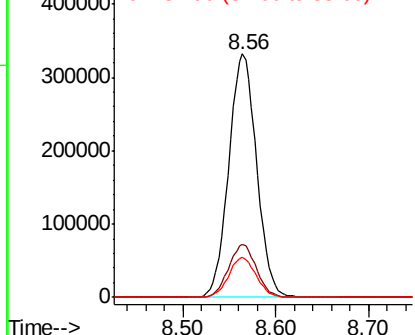
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.56 min Scan# 2112  
 Delta R.T. -0.00 min  
 Lab File: VN059139.D  
 Acq: 8 Nov 2019 17:21

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SB-38-(2-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.8  | 0.0   | 43.4  |
| 88      | 16.2  | 0.0   | 32.2  |

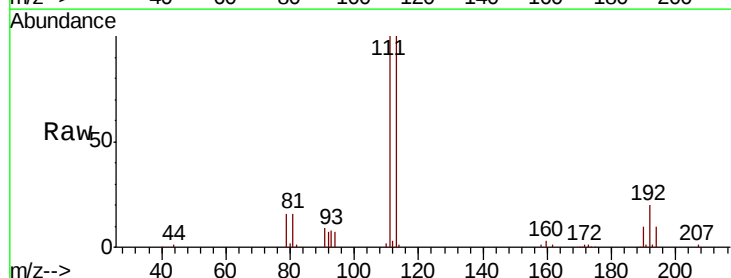


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

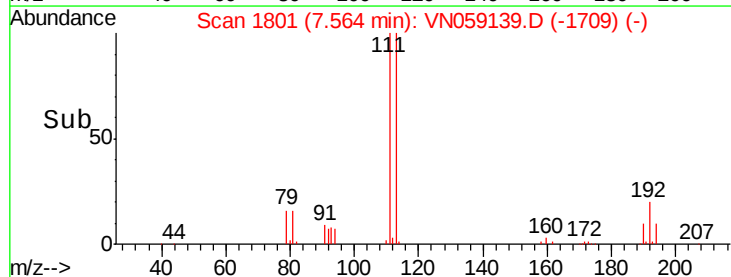
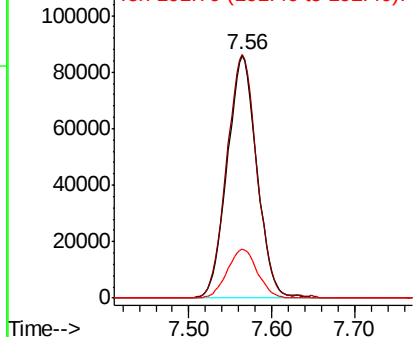


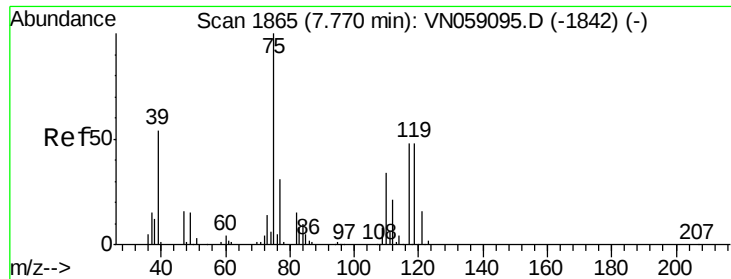
#35  
 Dibromofluoromethane  
 Concen: 51.854 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. -0.00 min  
 Lab File: VN059139.D  
 Acq: 8 Nov 2019 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.7 | 82.8  | 124.2 |
| 192     | 20.5  | 16.1  | 24.1  |



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

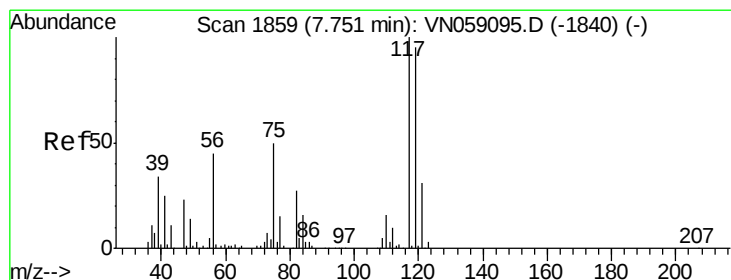
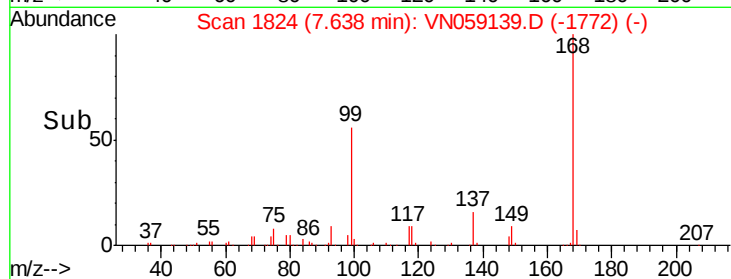
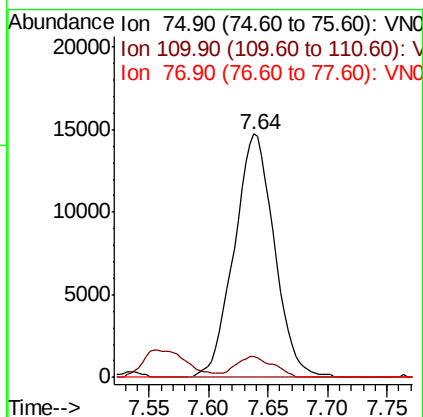
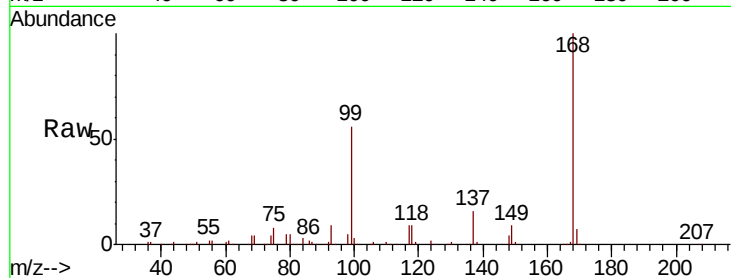




#36  
 1,1-Dichloropropene  
 Concen: 5.333 ug/l  
 RT: 7.64 min Scan# 1824  
 Delta R.T. -0.13 min  
 Lab File: VN059139.D  
 Acq: 8 Nov 2019 17:21

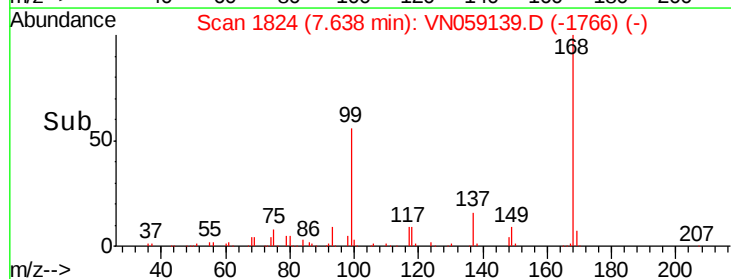
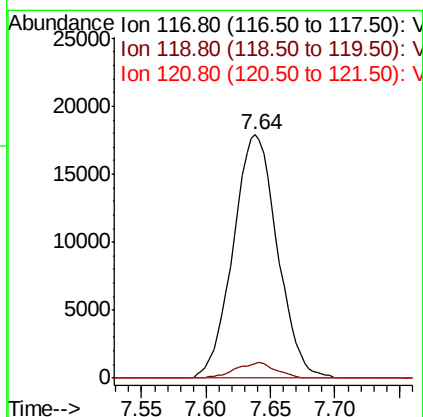
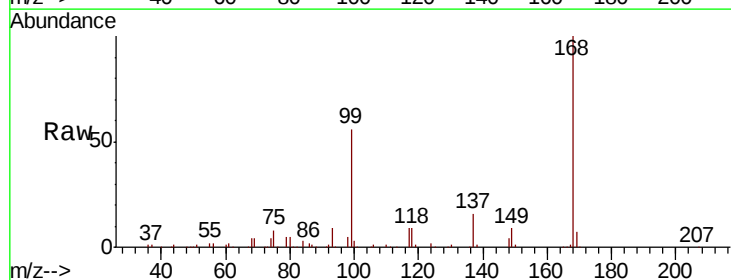
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SB-38-(2-4)

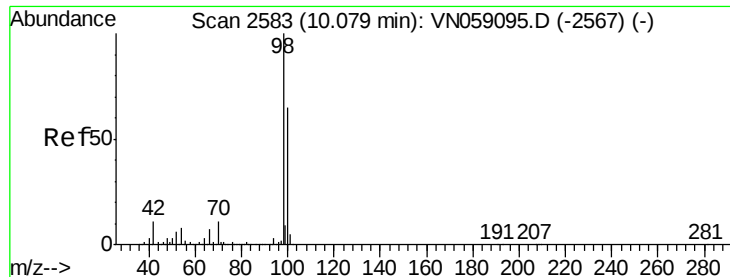
| Tot Ion   | 75    | Resp  | 34377 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.0   | 17.1  | 51.2# |
| 77        | 0.0   | 24.8  | 37.2# |



#38  
 Carbon Tetrachloride  
 Concen: 6.648 ug/l  
 RT: 7.64 min Scan# 1824  
 Delta R.T. -0.11 min  
 Lab File: VN059139.D  
 Acq: 8 Nov 2019 17:21

| Tgt Ion   | 117   | Resp  | 42652  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 6.1   | 75.6  | 113.4# |
| 121       | 0.0   | 24.6  | 36.8#  |





#50

Toluene-d8

Concen: 53.026 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059139.D

Acq: 8 Nov 2019 17:21

Instrument :

MSVOA\_N

ClientSampleId :

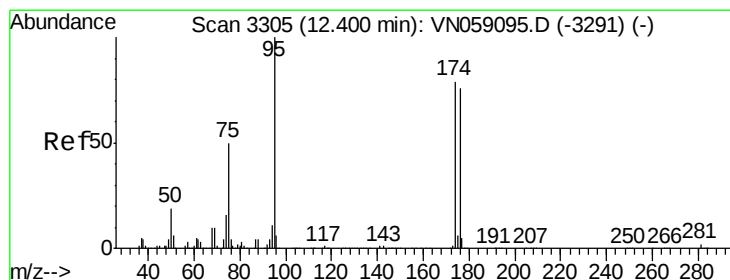
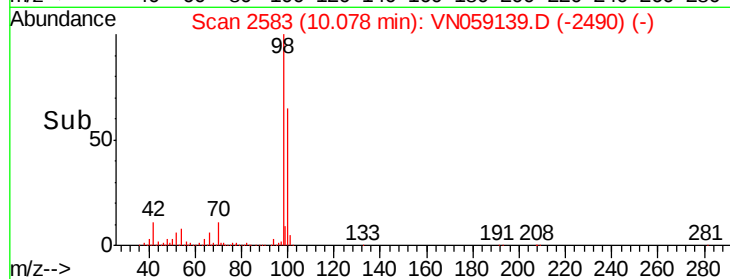
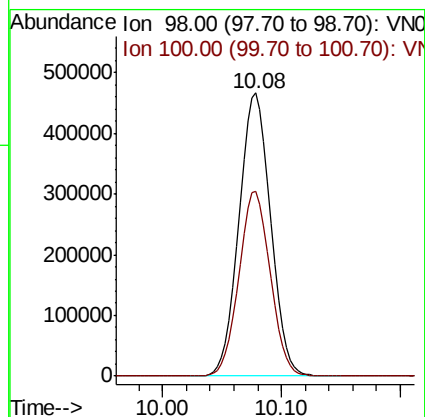
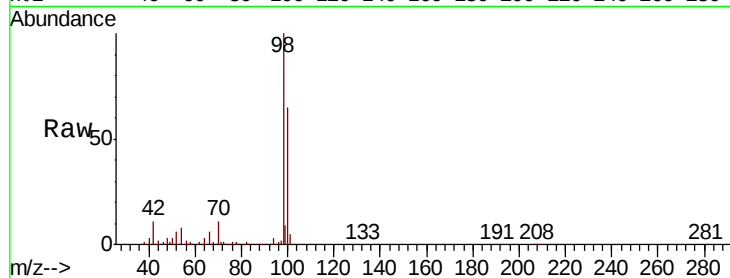
SB-38-(2-4)

Tot Ion: 98 Resp: 859994

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 47.492 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059139.D

Acq: 8 Nov 2019 17:21

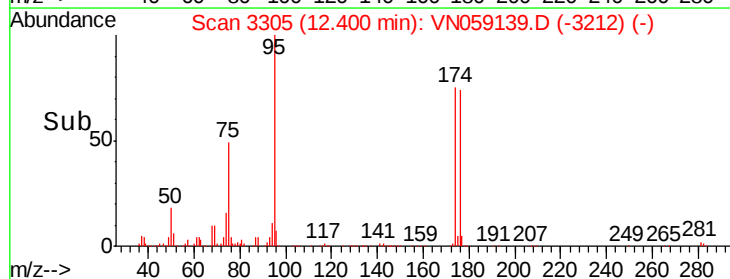
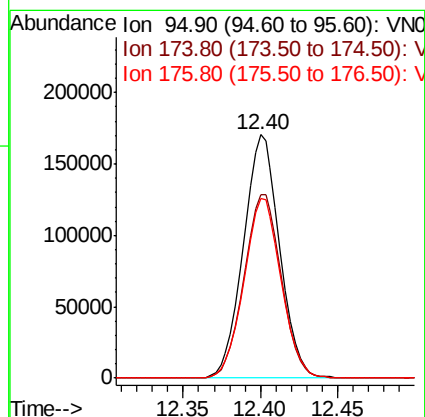
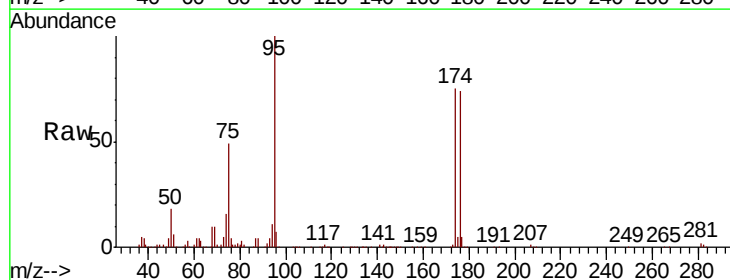
Tgt Ion: 95 Resp: 277719

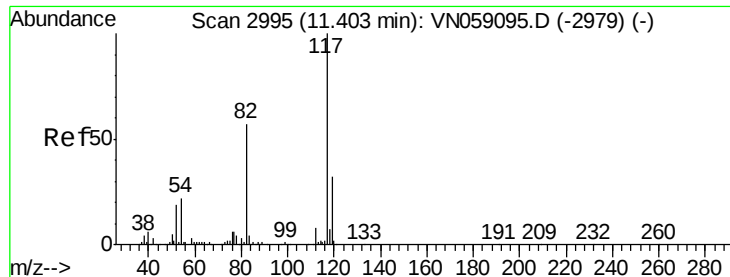
Ion Ratio Lower Upper

95 100

174 78.1 0.0 158.2

176 75.9 0.0 151.8

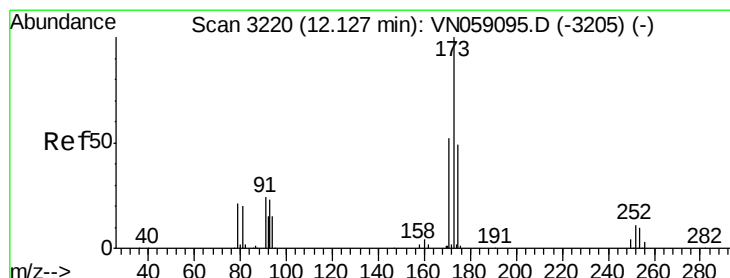
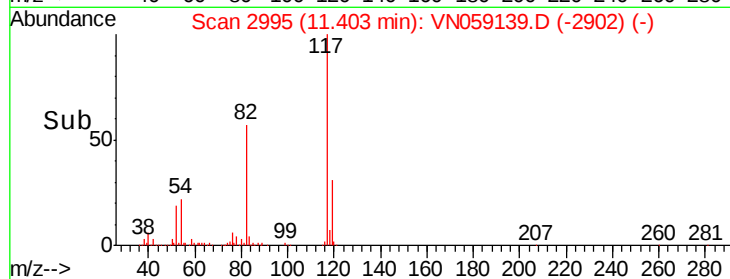
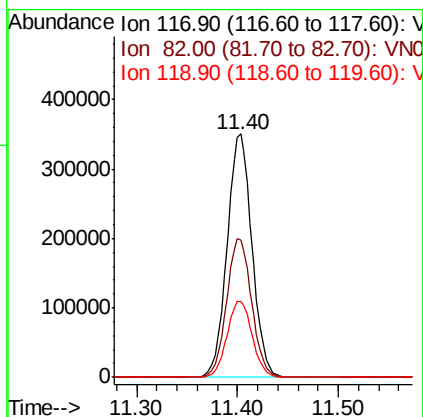
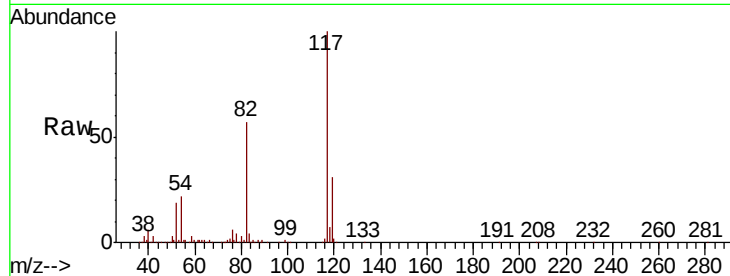




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. -0.00 min  
Lab File: VN059139.D  
Acq: 8 Nov 2019 17:21

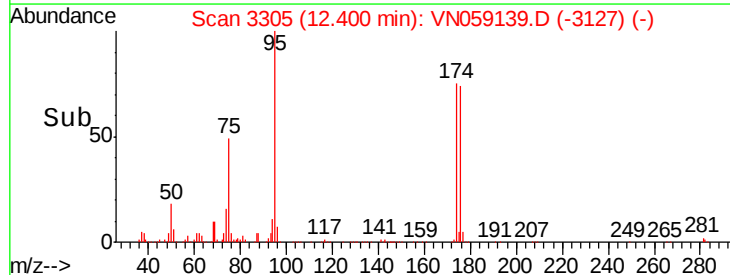
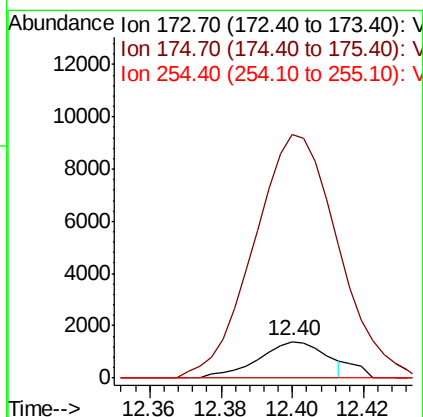
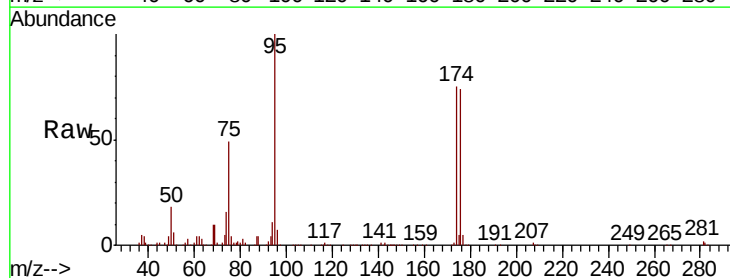
Instrument :  
MSVOA\_N  
ClientSampleId :  
SB-38-(2-4)

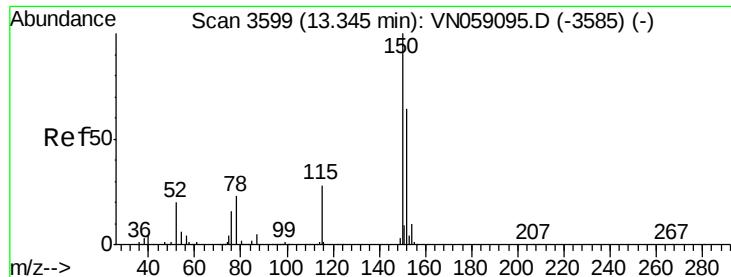
Tot Ion:117 Resp: 601762  
Ion Ratio Lower Upper  
117 100  
82 56.5 45.8 68.8  
119 31.3 25.8 38.6



#71  
Bromoform  
Concen: 0.533 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.27 min  
Lab File: VN059139.D  
Acq: 8 Nov 2019 17:21

Tgt Ion:173 Resp: 1825  
Ion Ratio Lower Upper  
173 100  
175 740.7 24.2 72.6#  
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059139.D

Acq: 8 Nov 2019 17:21

Instrument :

MSVOA\_N

ClientSampleId :

SB-38-(2-4)

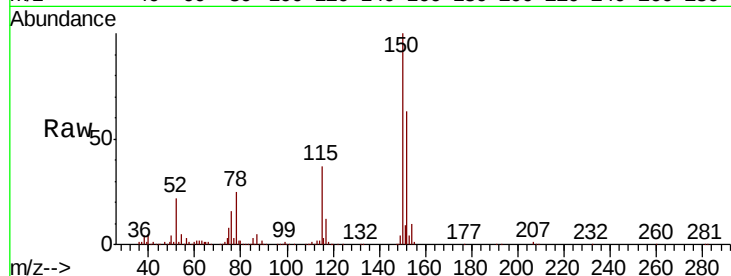
Tot Ion:152 Resp: 244069

Ion Ratio Lower Upper

152 100

115 59.1 29.4 88.2

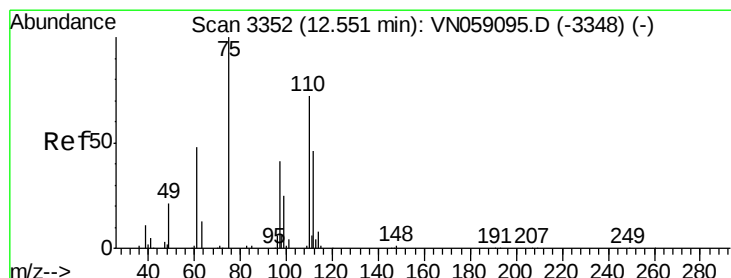
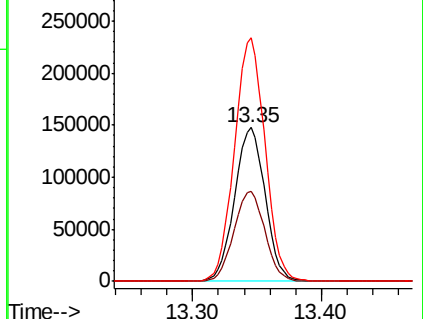
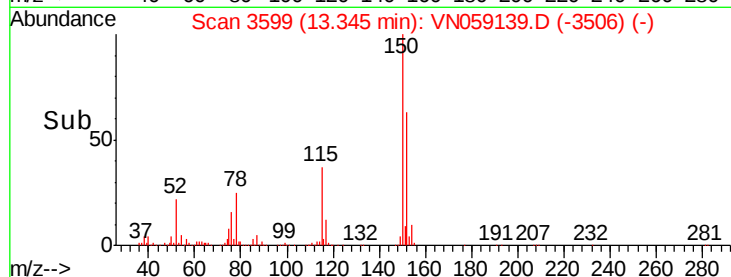
150 158.2 0.0 345.8



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: 25.049 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059139.D

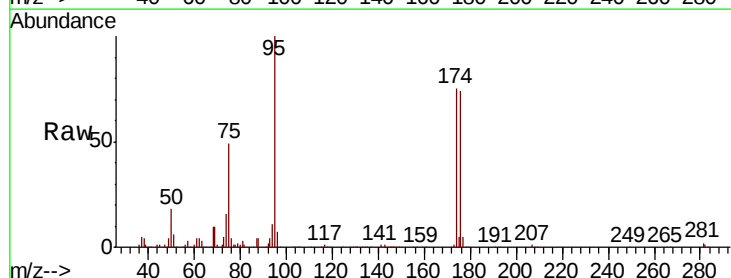
Acq: 8 Nov 2019 17:21

Tgt Ion: 75 Resp: 139189

Ion Ratio Lower Upper

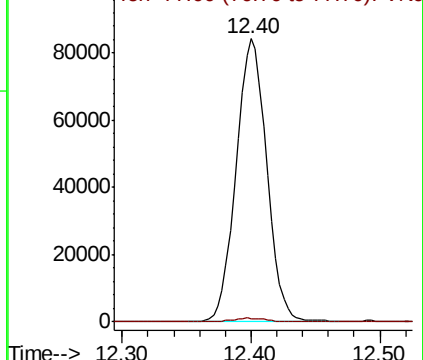
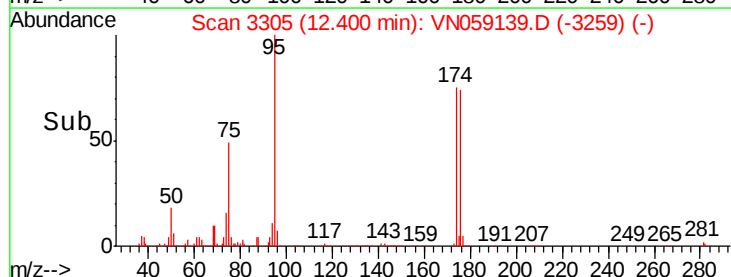
75 100

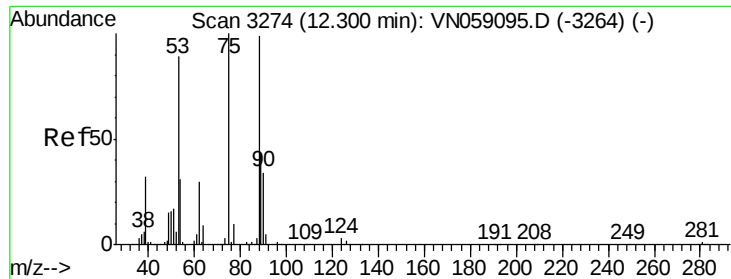
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 66.162 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059139.D

Acq: 8 Nov 2019 17:21

Instrument :

MSVOA\_N

ClientSampled :

SB-38-(2-4)

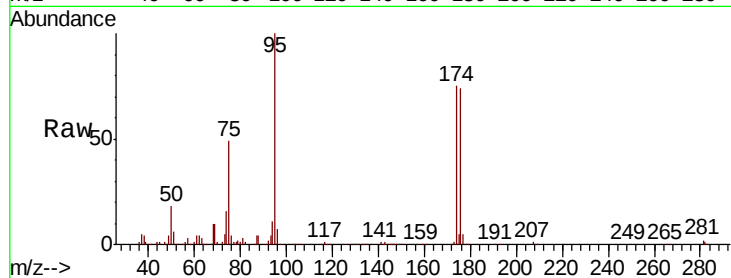
Tot Ion: 75 Resp: 139189

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

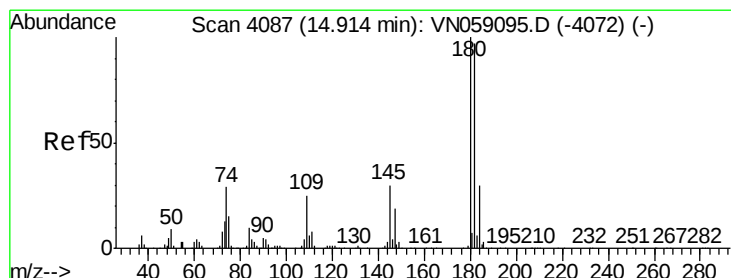
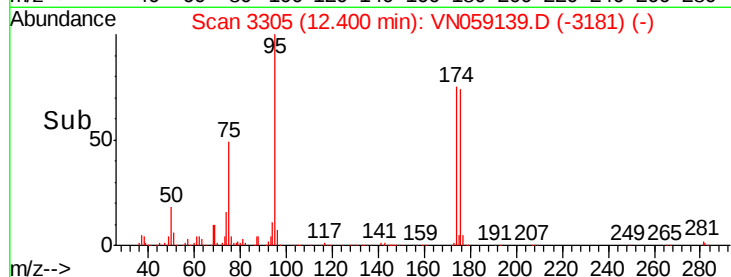
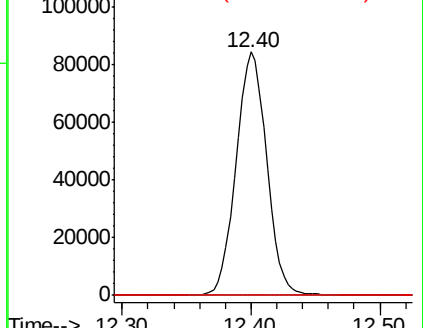
89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN059139.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN059139.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN059139.D (-3181) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.103 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.01 min

Lab File: VN059139.D

Acq: 8 Nov 2019 17:21

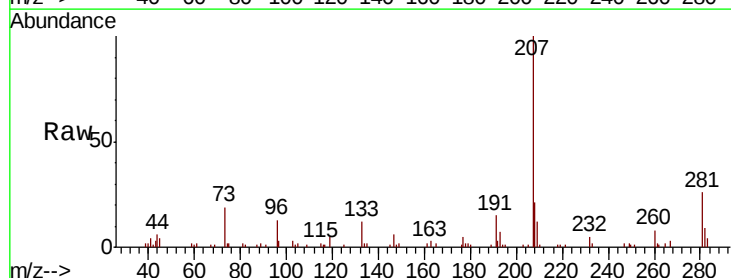
Tgt Ion: 180 Resp: 275

Ion Ratio Lower Upper

180 100

182 85.5 48.1 144.3

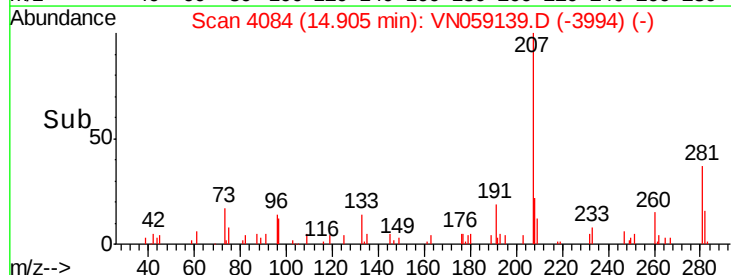
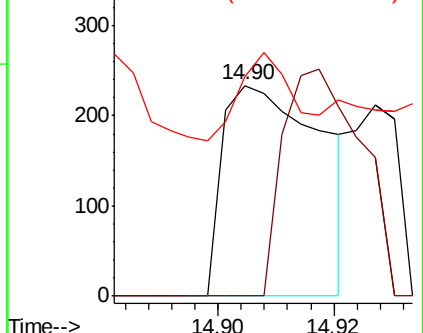
145 33.5 15.1 45.3

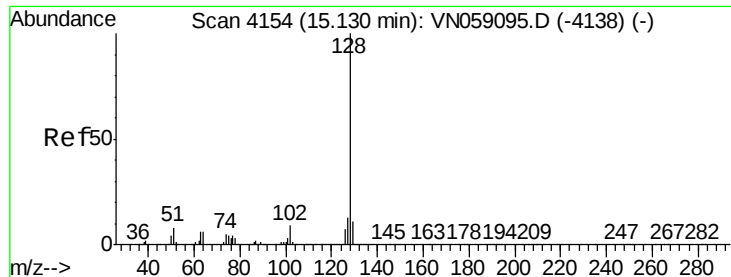


Abundance Ion 179.80 (179.50 to 180.50): VN059139.D (-3994) (-)

Ion 181.80 (181.50 to 182.50): VN059139.D (-3994) (-)

Ion 144.80 (144.50 to 145.50): VN059139.D (-3994) (-)





#95  
Naphthalene  
Concen: 3.185 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN059139.D  
Acq: 8 Nov 2019 17:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
SB-38-(2-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.2  | 15.2# |
| 129     | 11.6  | 8.6   | 12.8  |

