

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102720\  
 Data File : VN064338.D  
 Acq On : 27 Oct 2020 20:01  
 Operator : JC/MD  
 Sample : L4511-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OB-7

Quant Time: Oct 28 04:28:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 12:23:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 221224   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 387496   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 386361   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 171613   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 180736   | 50.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.68% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 130570   | 50.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.06% |          |
| 50) Toluene-d8              | 10.06 | 98   | 486737   | 50.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.84% |          |
| 62) 4-Bromofluorobenzene    | 12.37 | 95   | 212771   | 57.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.18% |          |

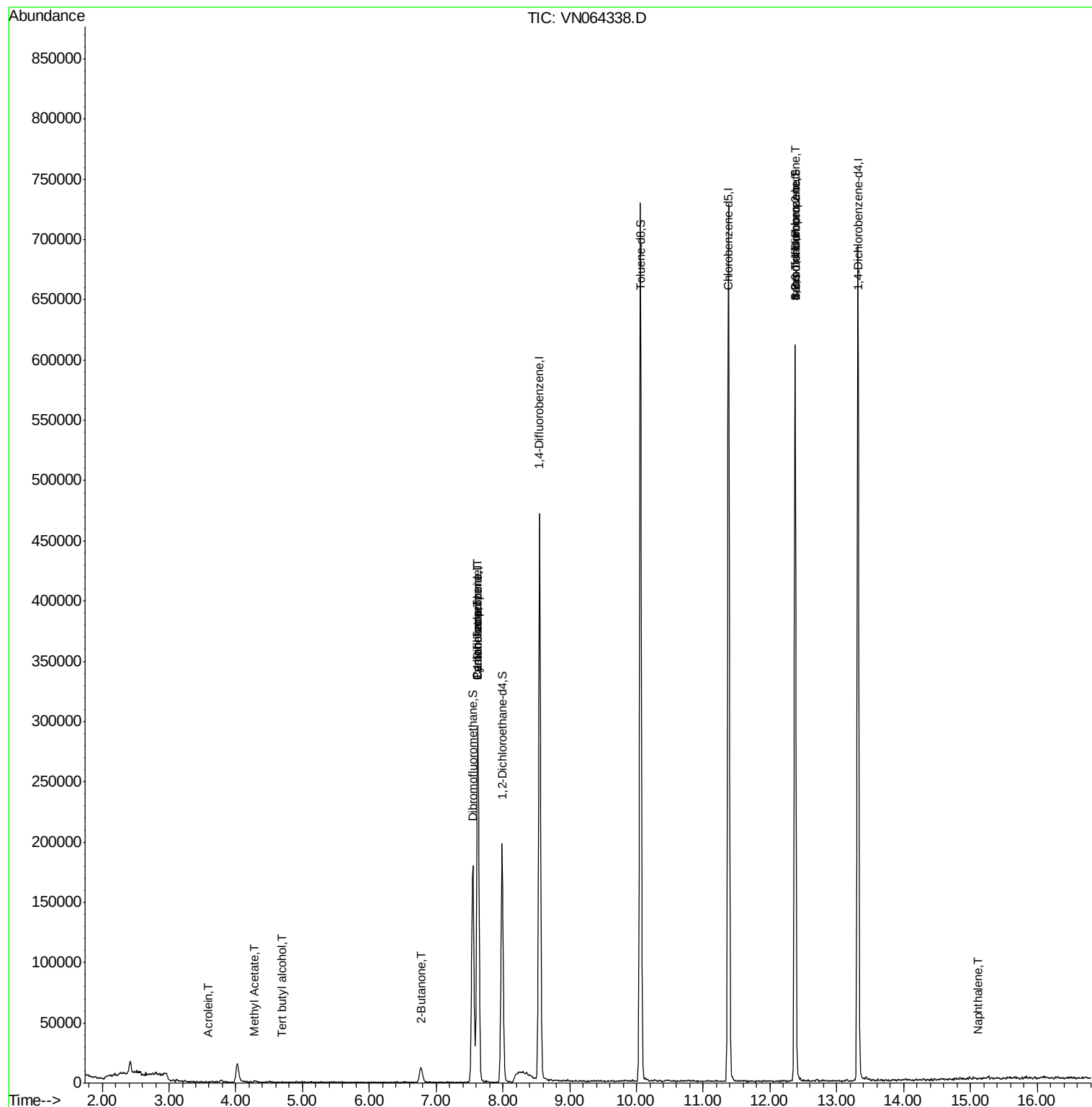
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.68  | 59   | 134      | 0.260     | ug/l # | 70     |
| 13) Acrolein                   | 3.59  | 56   | 66       | 18.227    | ug/l # | 10     |
| 16) Acetone                    | 3.78  | 43   | 1695     | Below Cal | #      | 69     |
| 18) Methyl Acetate             | 4.29  | 43   | 693      | 0.259     | ug/l # | 55     |
| 25) 2-Butanone                 | 6.78  | 43   | 498      | 0.279     | ug/l # | 52     |
| 31) Cyclohexane                | 7.62  | 56   | 5552     | 1.346     | ug/l # | 20     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 19636    | 5.021     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 24130    | 5.322     | ug/l # | 19     |
| 71) Bromoform                  | 12.37 | 173  | 1573     | 0.633     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.37 | 75   | 119281   | 29.024    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.37 | 75   | 119281   | 83.606    | ug/l # | 8      |
| 95) Naphthalene                | 15.11 | 128  | 194      | 2.412     | ug/l # | 69     |

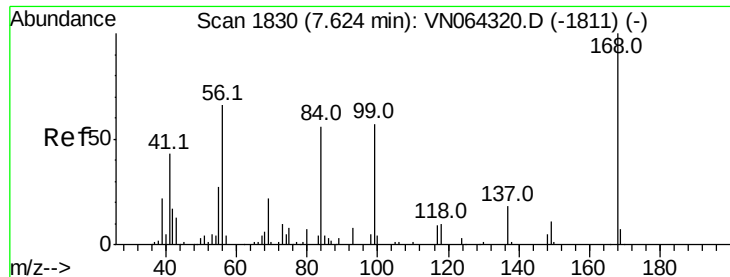
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Oct 27 12:23:17 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

Instrument :

MSVOA\_N

ClientSampled :

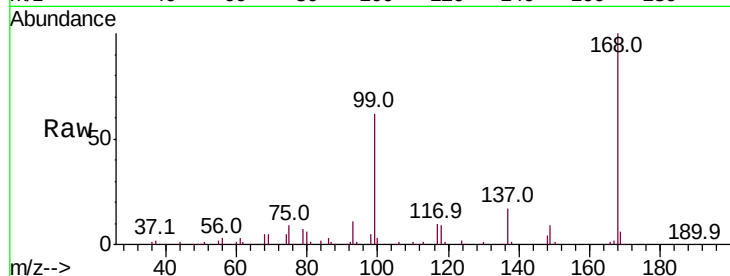
OB-7

Tot Ion:168 Resp: 221224

Ion Ratio Lower Upper

168 100

99 62.4 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): VN064338.D (-1737) (-)

Ion 98.90 (98.60 to 99.60): VN064338.D (-1737) (-)

7.62

100000

80000

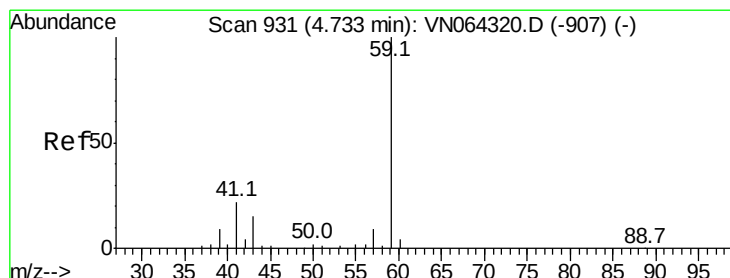
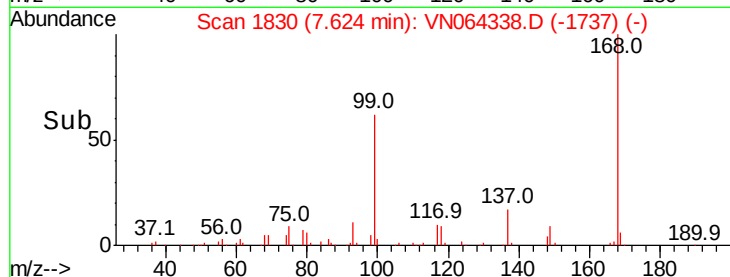
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.260 ug/l

RT: 4.68 min Scan# 914

Delta R.T. -0.05 min

Lab File: VN064338.D

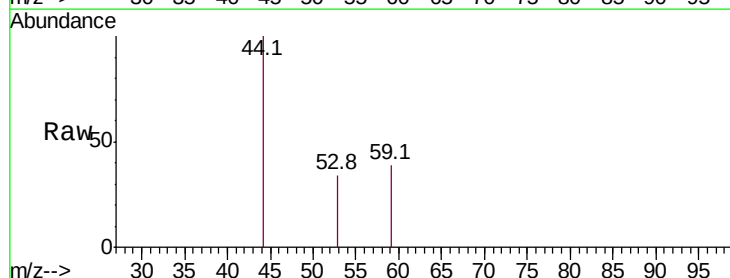
Acq: 27 Oct 2020 20:01

Tgt Ion: 59 Resp: 134

Ion Ratio Lower Upper

59 100

57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VN064338.D (-838) (-)

Ion 57.00 (56.70 to 57.70): VN064338.D (-838) (-)

4.68

200

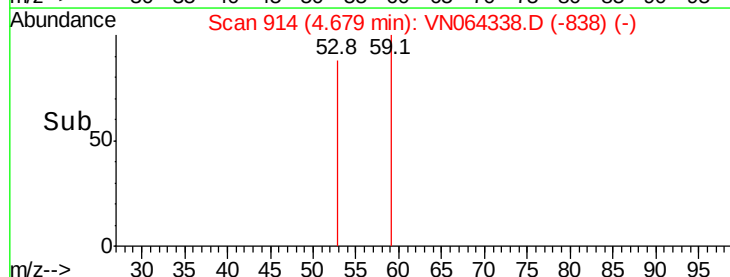
150

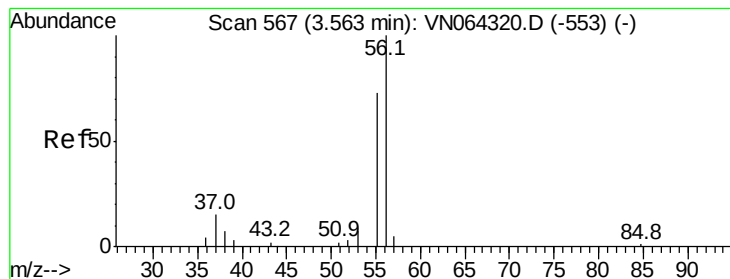
100

50

0

Time-->





#13

Acrolein

Concen: 18.227 ug/l

RT: 3.59 min Scan# 574

Delta R.T. 0.02 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

Instrument :

MSVOA\_N

ClientSampled :

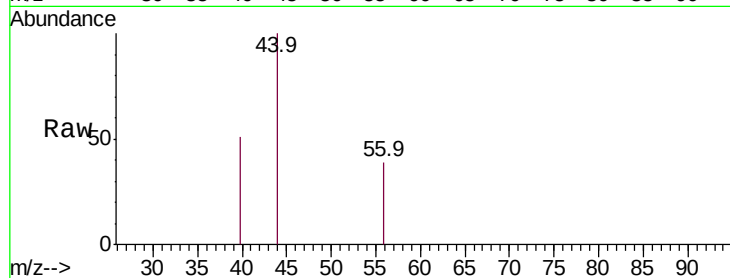
OB-7

Tot Ion: 56 Resp: 66

Ion Ratio Lower Upper

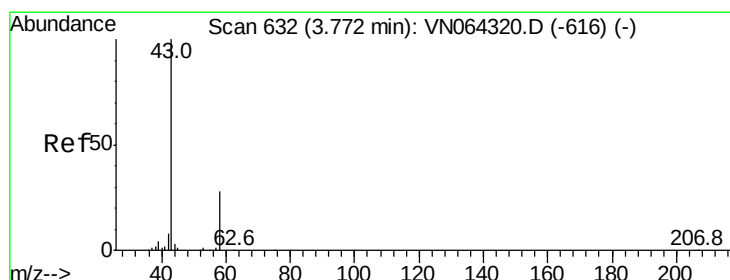
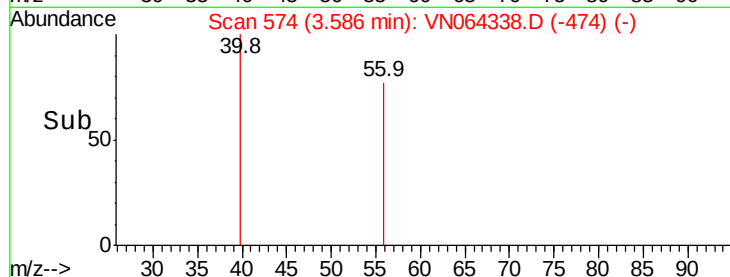
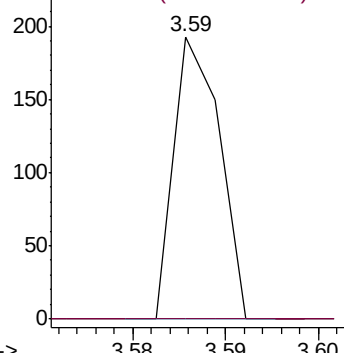
56 100

55 0.0 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064338.D

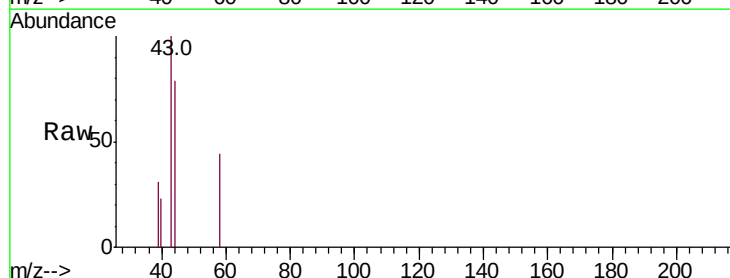
Acq: 27 Oct 2020 20:01

Tgt Ion: 43 Resp: 1695

Ion Ratio Lower Upper

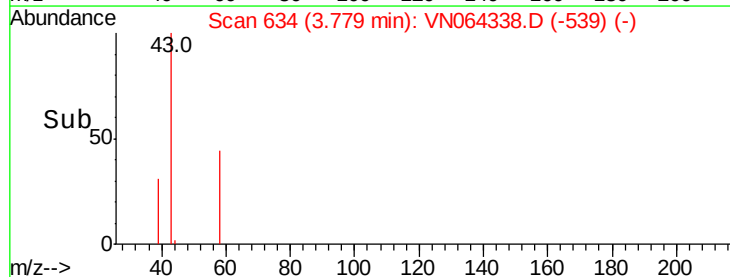
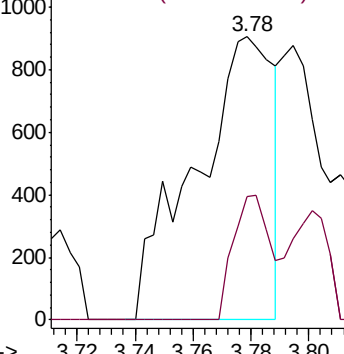
43 100

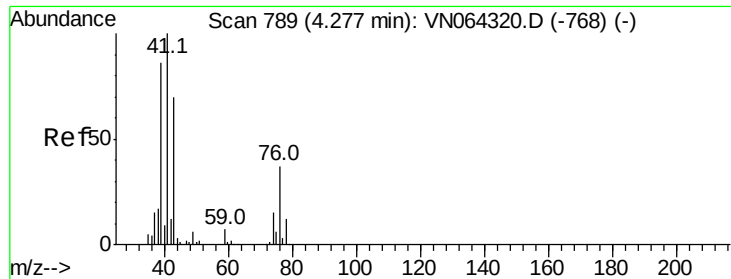
58 43.8 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

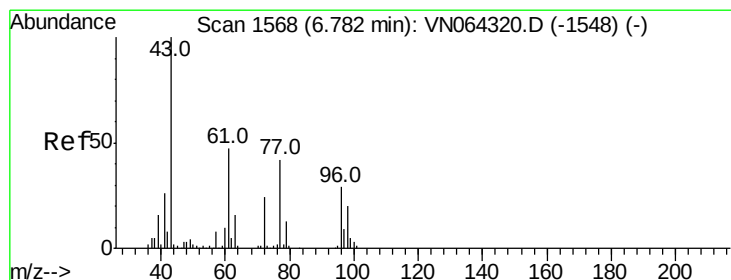
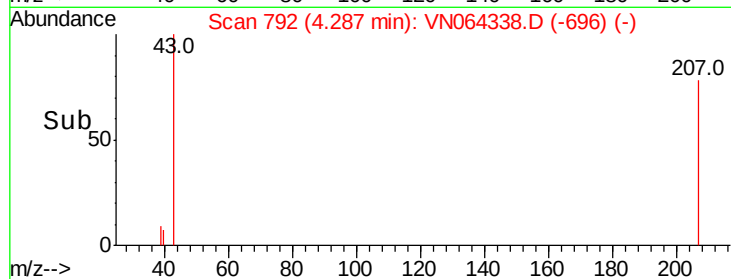
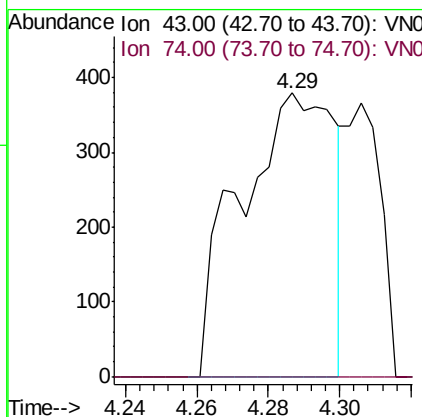
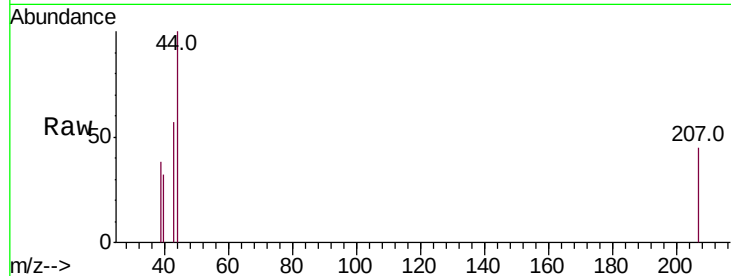




#18  
Methyl Acetate  
Concen: 0.259 ug/l  
RT: 4.29 min Scan# 792  
Delta R.T. 0.01 min  
Lab File: VN064338.D  
Acq: 27 Oct 2020 20:01

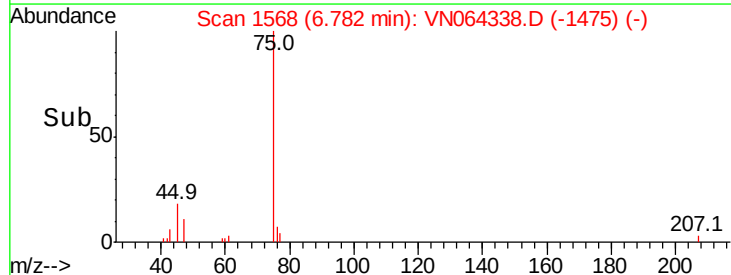
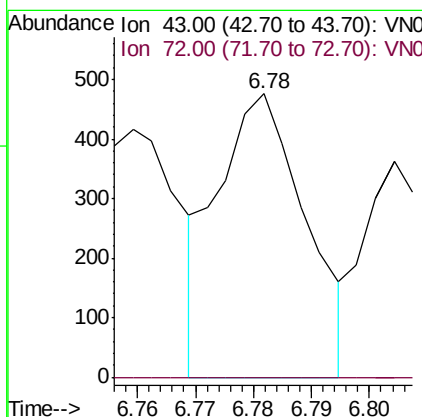
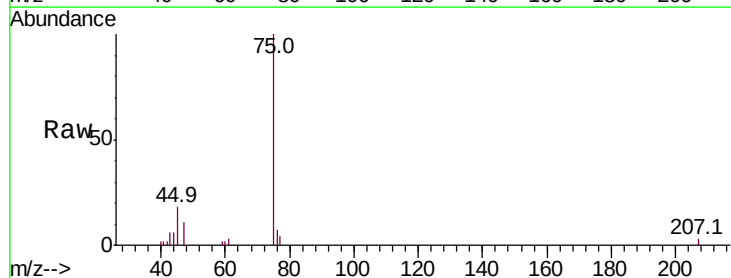
Instrument :  
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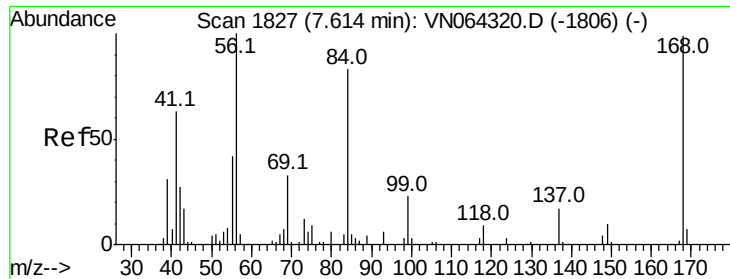
Tot Ion: 43 Resp: 693  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.7 25.1#



#25  
2-Butanone  
Concen: 0.279 ug/l  
RT: 6.78 min Scan# 1568  
Delta R.T. 0.00 min  
Lab File: VN064338.D  
Acq: 27 Oct 2020 20:01

Tgt Ion: 43 Resp: 498  
Ion Ratio Lower Upper  
43 100  
72 0.0 18.8 28.2#

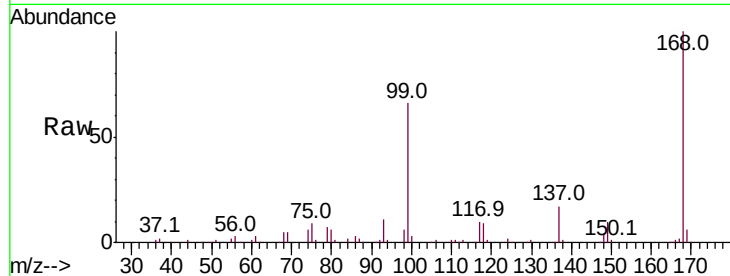




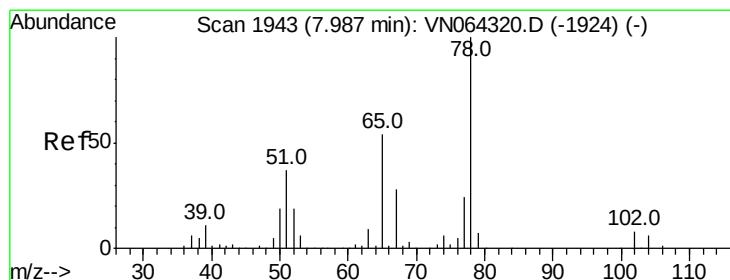
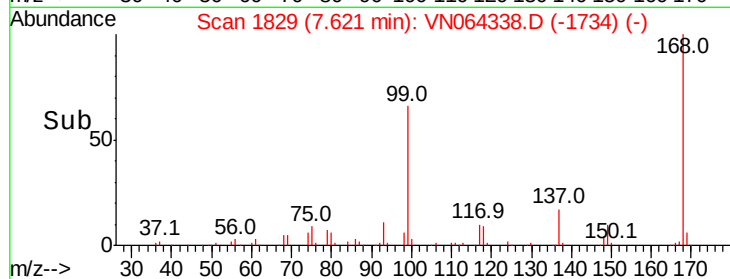
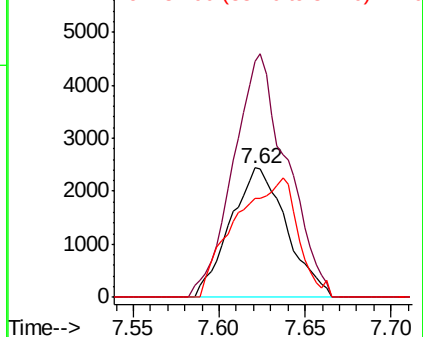
#31  
Cyclohexane  
Concen: 1.346 ug/l  
RT: 7.62 min Scan# 1829  
Delta R.T. 0.01 min  
Lab File: VN064338.D  
Acq: 27 Oct 2020 20:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
OB-7

Tot Ion: 56 Resp: 5552  
Ion Ratio Lower Upper  
56 100  
69 181.7 25.8 38.8#  
84 75.9 66.3 99.5

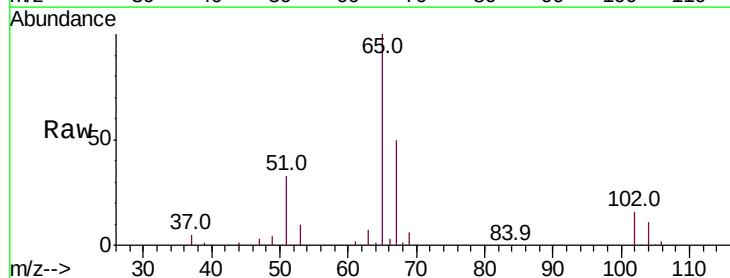


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

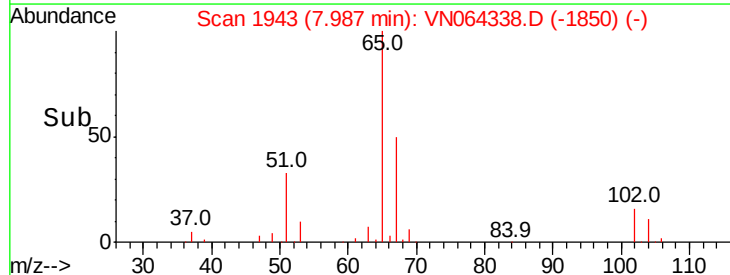
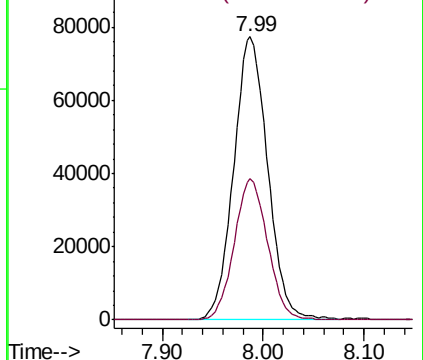


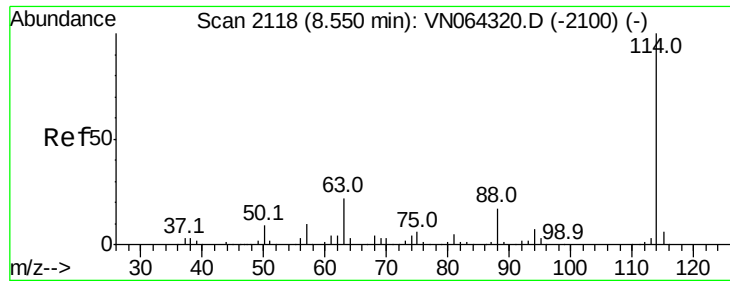
#33  
1,2-Dichloroethane-d4  
Concen: 50.839 ug/l  
RT: 7.99 min Scan# 1943  
Delta R.T. 0.00 min  
Lab File: VN064338.D  
Acq: 27 Oct 2020 20:01

Tgt Ion: 65 Resp: 180736  
Ion Ratio Lower Upper  
65 100  
67 48.9 0.0 99.2



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0

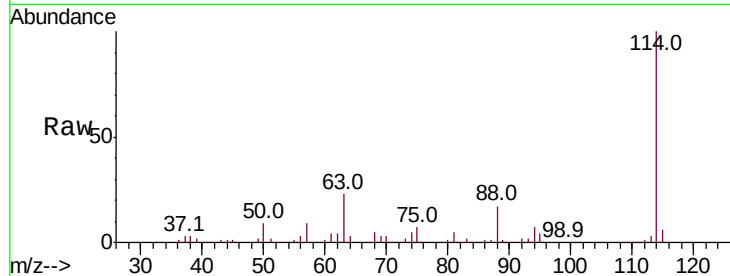




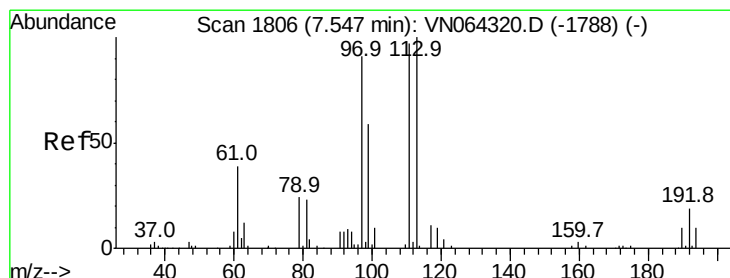
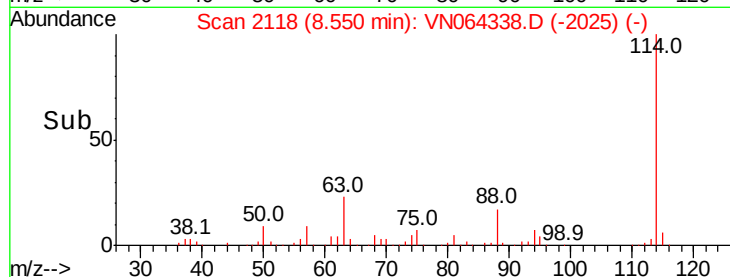
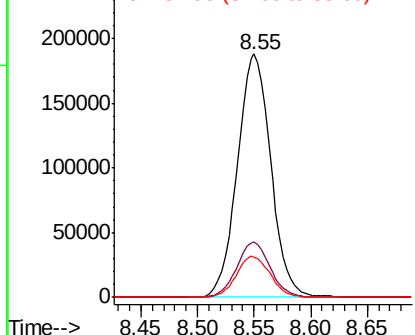
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN064338.D  
 Acq: 27 Oct 2020 20:01

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OB-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.7  | 0.0   | 44.6  |
| 88      | 16.5  | 0.0   | 33.4  |

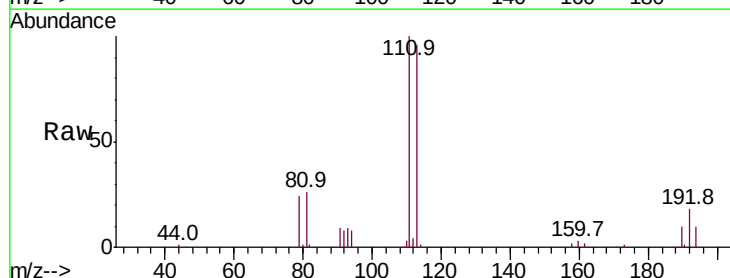


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

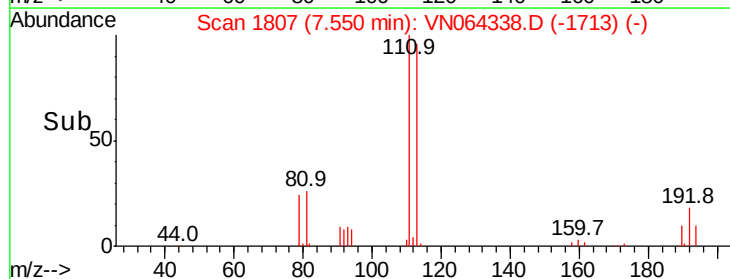
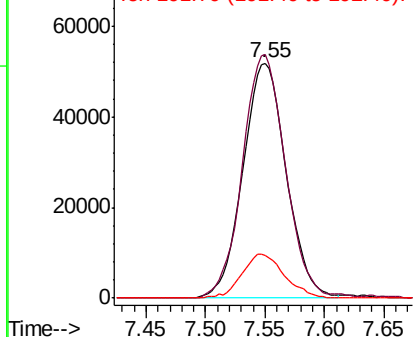


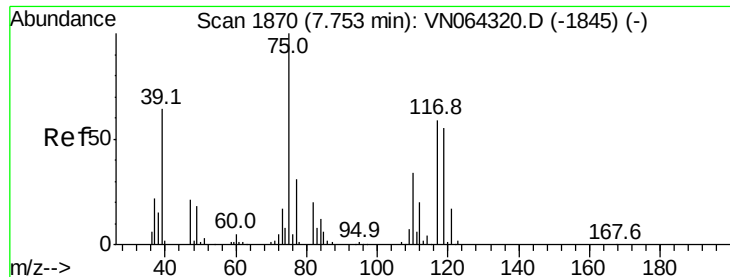
#35  
 Dibromofluoromethane  
 Concen: 50.528 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN064338.D  
 Acq: 27 Oct 2020 20:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.2 | 81.5  | 122.3 |
| 192     | 18.6  | 15.0  | 22.4  |



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: 5.021 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

Instrument :

MSVOA\_N

ClientSampleId :

OB-7

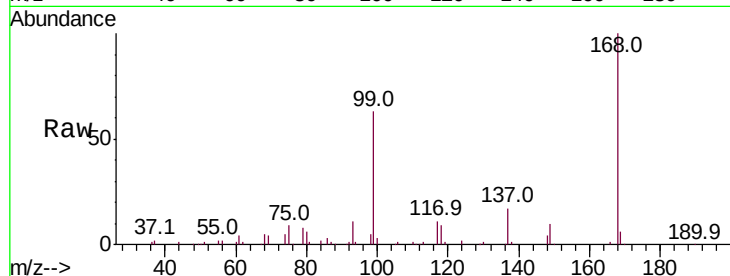
Tot Ion: 75 Resp: 19636

Ion Ratio Lower Upper

75 100

110 8.6 16.8 50.3#

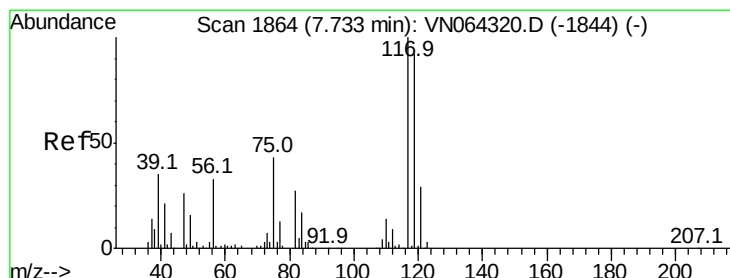
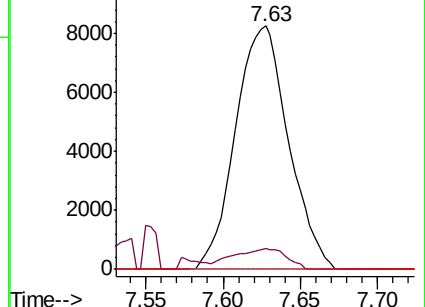
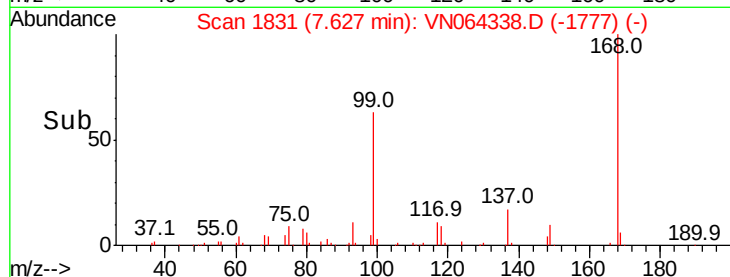
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064338.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN064338.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN064338.D (-1777) (-)



#38

Carbon Tetrachloride

Concen: 5.322 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

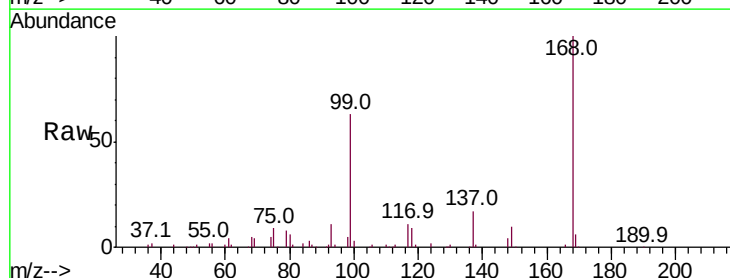
Tgt Ion: 117 Resp: 24130

Ion Ratio Lower Upper

117 100

119 6.9 73.7 110.5#

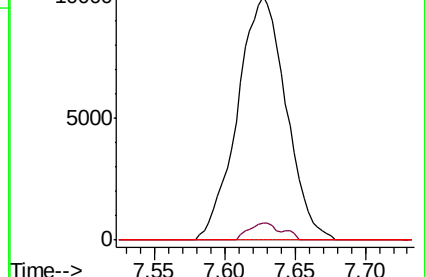
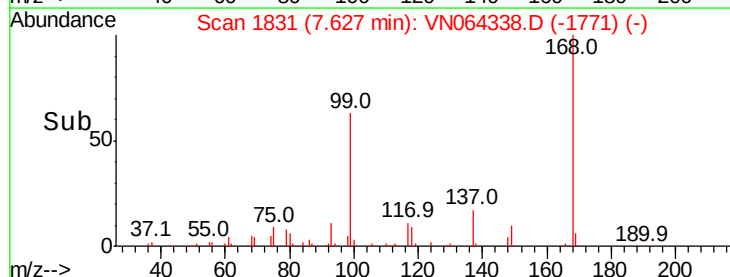
121 0.0 22.8 34.2#



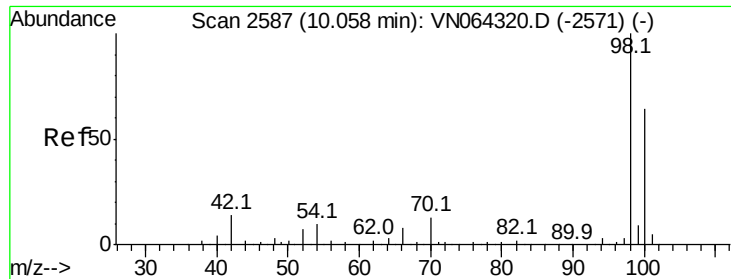
Abundance Ion 116.80 (116.50 to 117.50): VN064338.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN064338.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN064338.D (-1771) (-)







#50

Toluene-d8

Concen: 50.923 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

Instrument :

MSVOA\_N

ClientSampled :

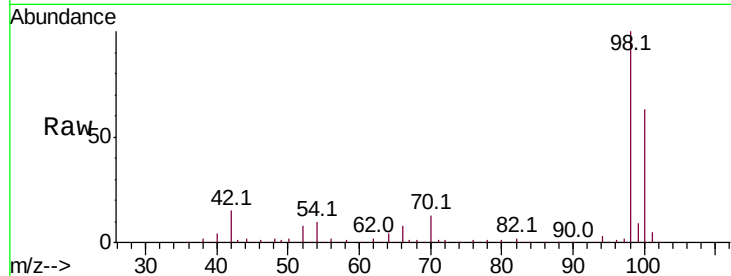
OB-7

Tot Ion: 98 Resp: 486737

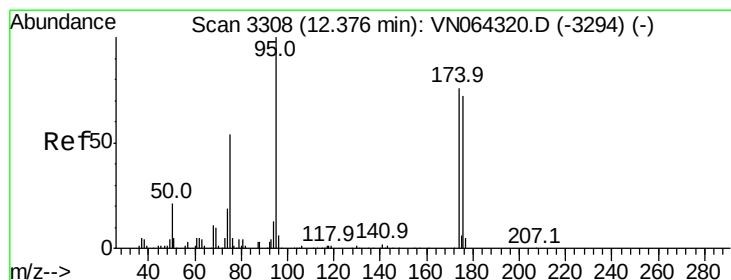
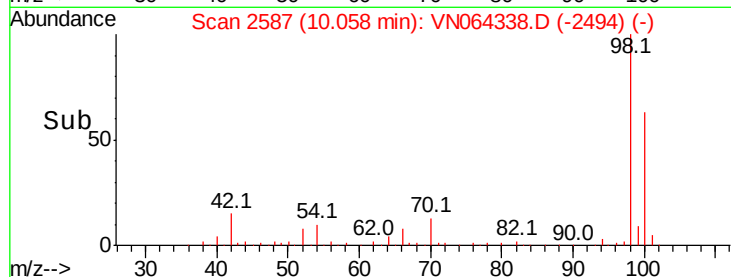
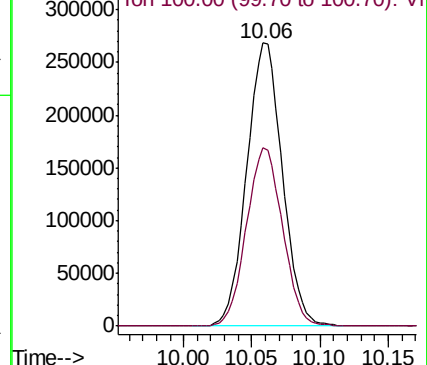
Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN064338.D (-2571) (-)



#62

4-Bromofluorobenzene

Concen: 57.093 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

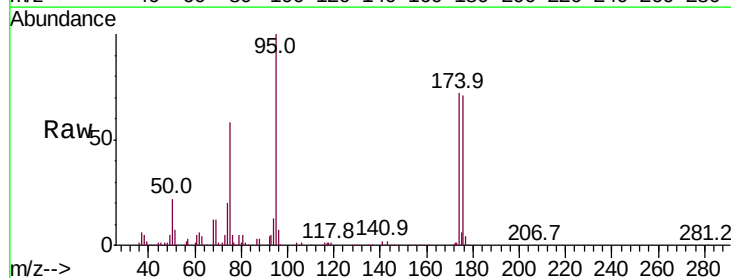
Tgt Ion: 95 Resp: 212771

Ion Ratio Lower Upper

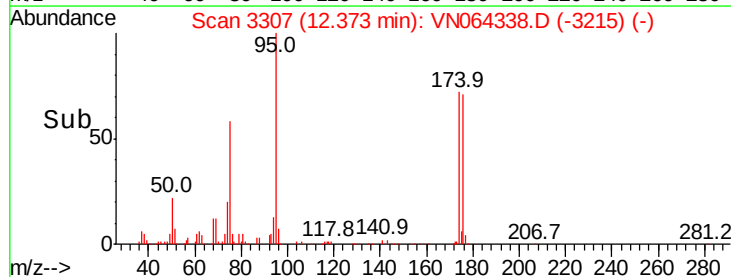
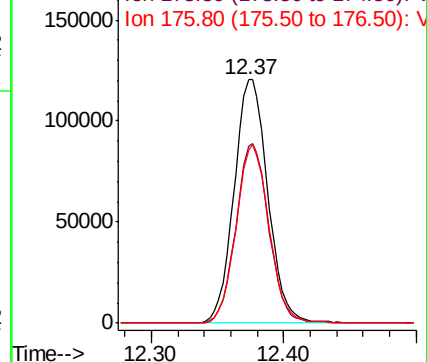
95 100

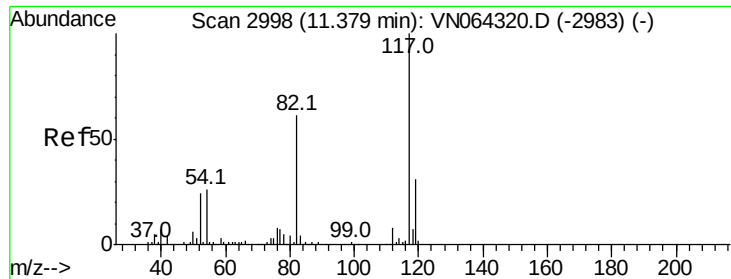
174 71.8 0.0 147.4

176 71.3 0.0 143.6



Abundance Ion 94.90 (94.60 to 95.60): VN064338.D (-3215) (-)





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

Instrument :

MSVOA\_N

ClientSampled :

OB-7

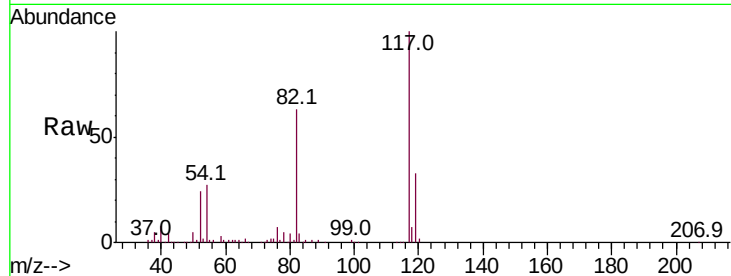
Tot Ion:117 Resp: 386361

Ion Ratio Lower Upper

117 100

82 62.6 48.8 73.2

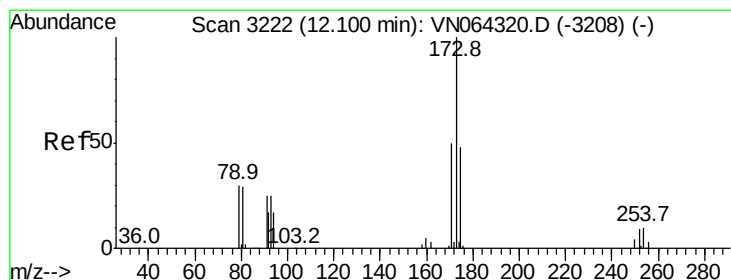
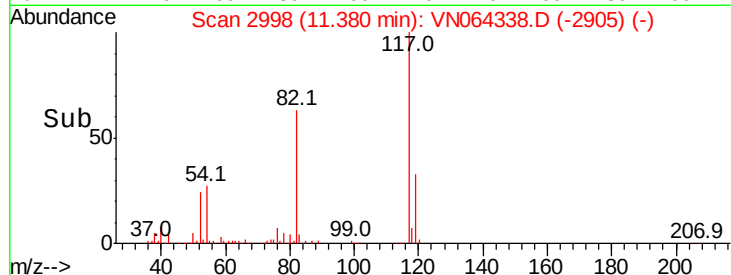
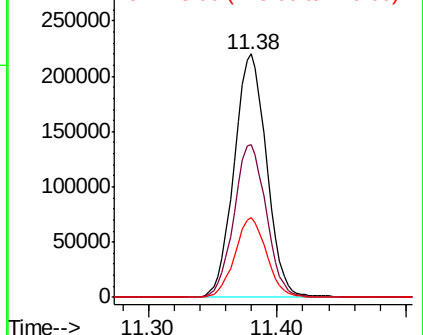
119 32.5 25.1 37.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.633 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

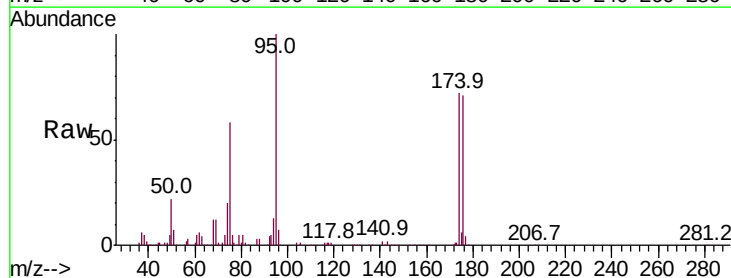
Tgt Ion:173 Resp: 1573

Ion Ratio Lower Upper

173 100

175 666.6 25.4 76.0#

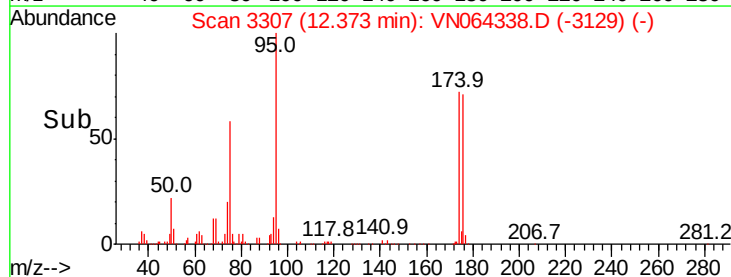
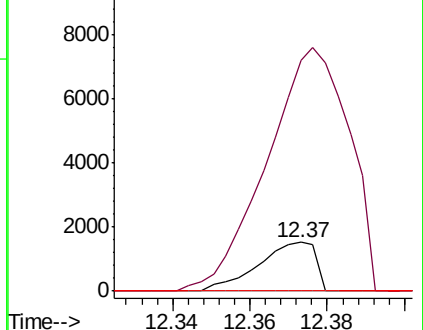
254 0.0 0.0 0.0

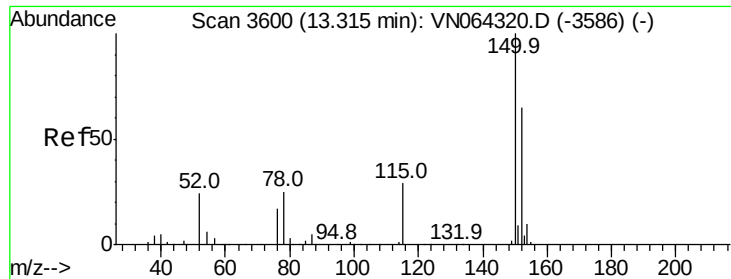


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

Instrument :

MSVOA\_N

ClientSampled :

OB-7

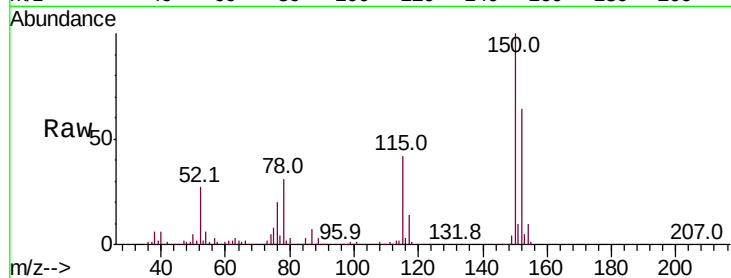
Tot Ion:152 Resp: 171613

Ion Ratio Lower Upper

152 100

115 66.3 31.5 94.5

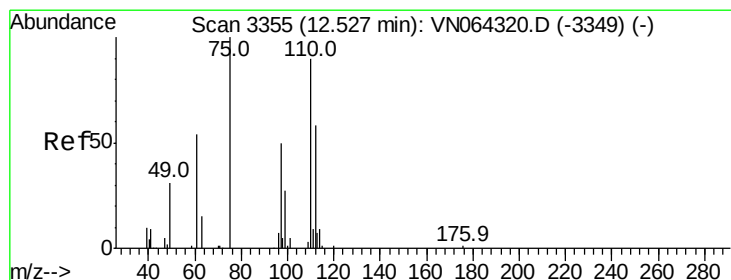
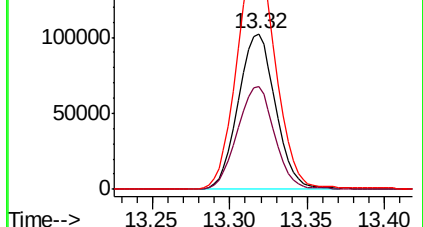
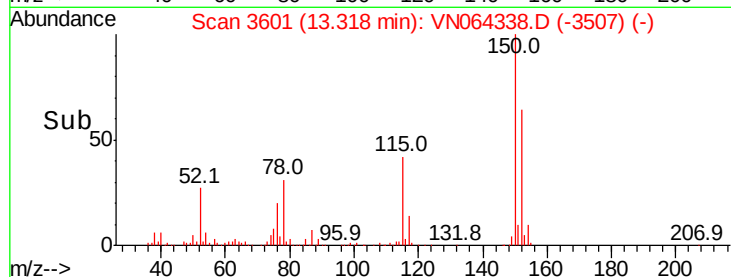
150 157.9 0.0 346.2



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



#76

1,2,3-Trichloropropane

Concen: 29.024 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064338.D

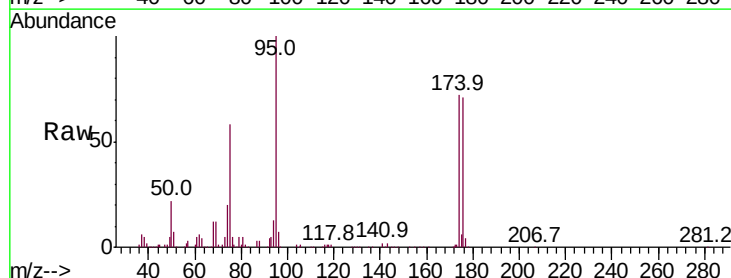
Acq: 27 Oct 2020 20:01

Tgt Ion: 75 Resp: 119281

Ion Ratio Lower Upper

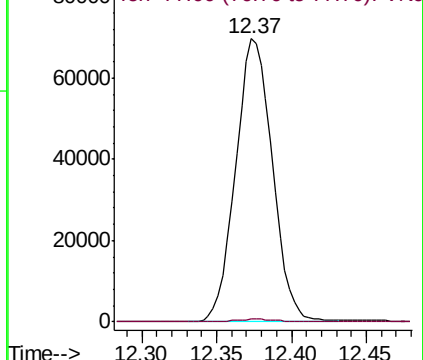
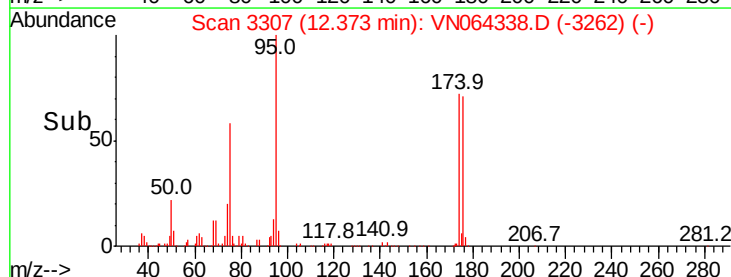
75 100

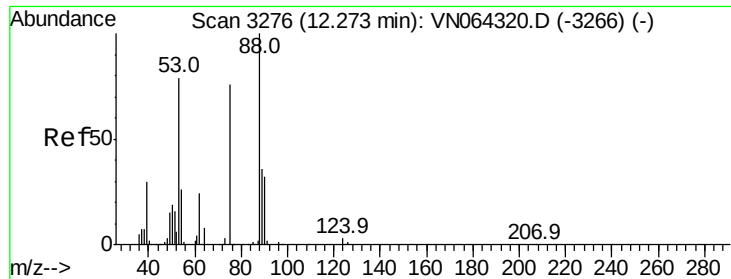
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 83.606 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

Instrument :

MSVOA\_N

ClientSampled :

OB-7

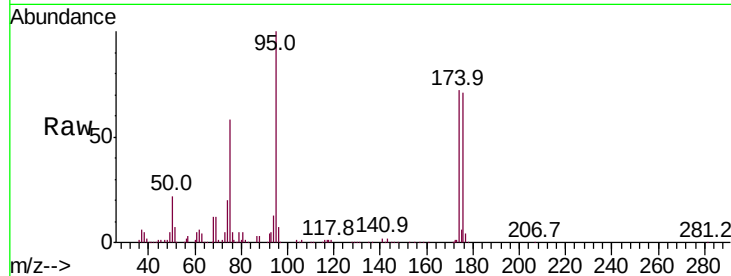
Tot Ion: 75 Resp: 119281

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

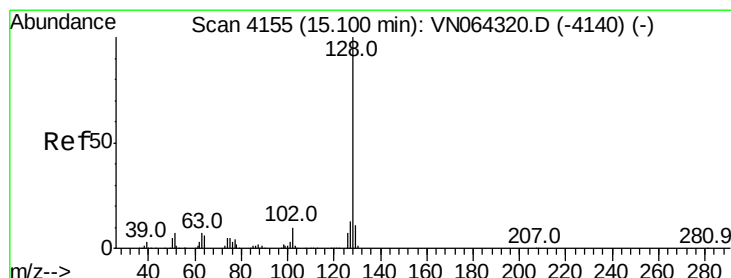
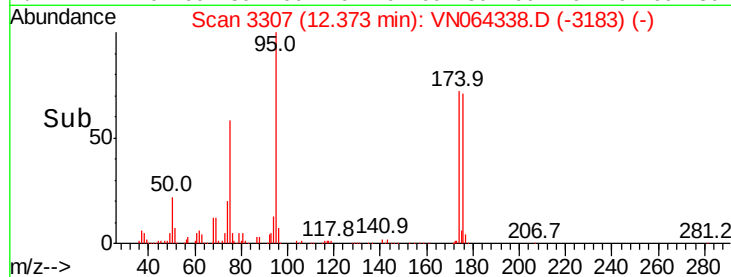
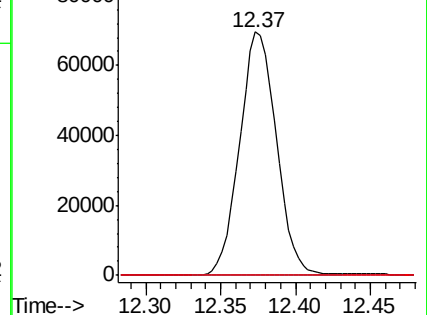
89 0.0 39.9 59.9#



Abundance Ion 74.90 (74.60 to 75.60): VN064338.D (-3183) (-)

Ion 53.00 (52.70 to 53.70): VN064338.D (-3183) (-)

Ion 88.90 (88.60 to 89.60): VN064338.D (-3183) (-)



#95

Naphthalene

Concen: 2.412 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN064338.D

Acq: 27 Oct 2020 20:01

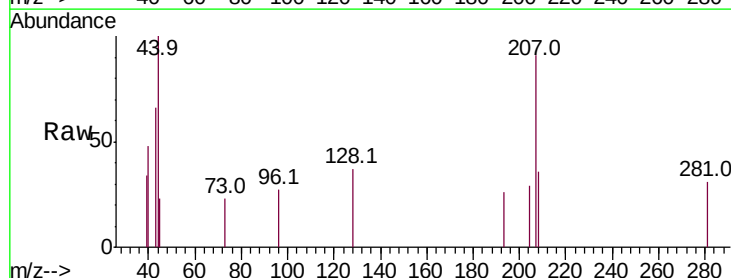
Tgt Ion: 128 Resp: 194

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN064338.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN064338.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN064338.D (-4061) (-)

