

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN031220\  
 Data File : VN060476.D  
 Acq On : 12 Mar 2020 14:03  
 Operator : JC/MD  
 Sample : L1893-12  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-2-DA

Quant Time: Mar 13 02:04:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 27 13:52:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 195211   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 323915   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 306028   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 141066   | 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   | 127991   | 51.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.20% |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 96409    | 64.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 128.24% |          |
| 50) Toluene-d8              | 10.08 | 98   | 401218   | 52.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.46% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 149504   | 51.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.66% |          |

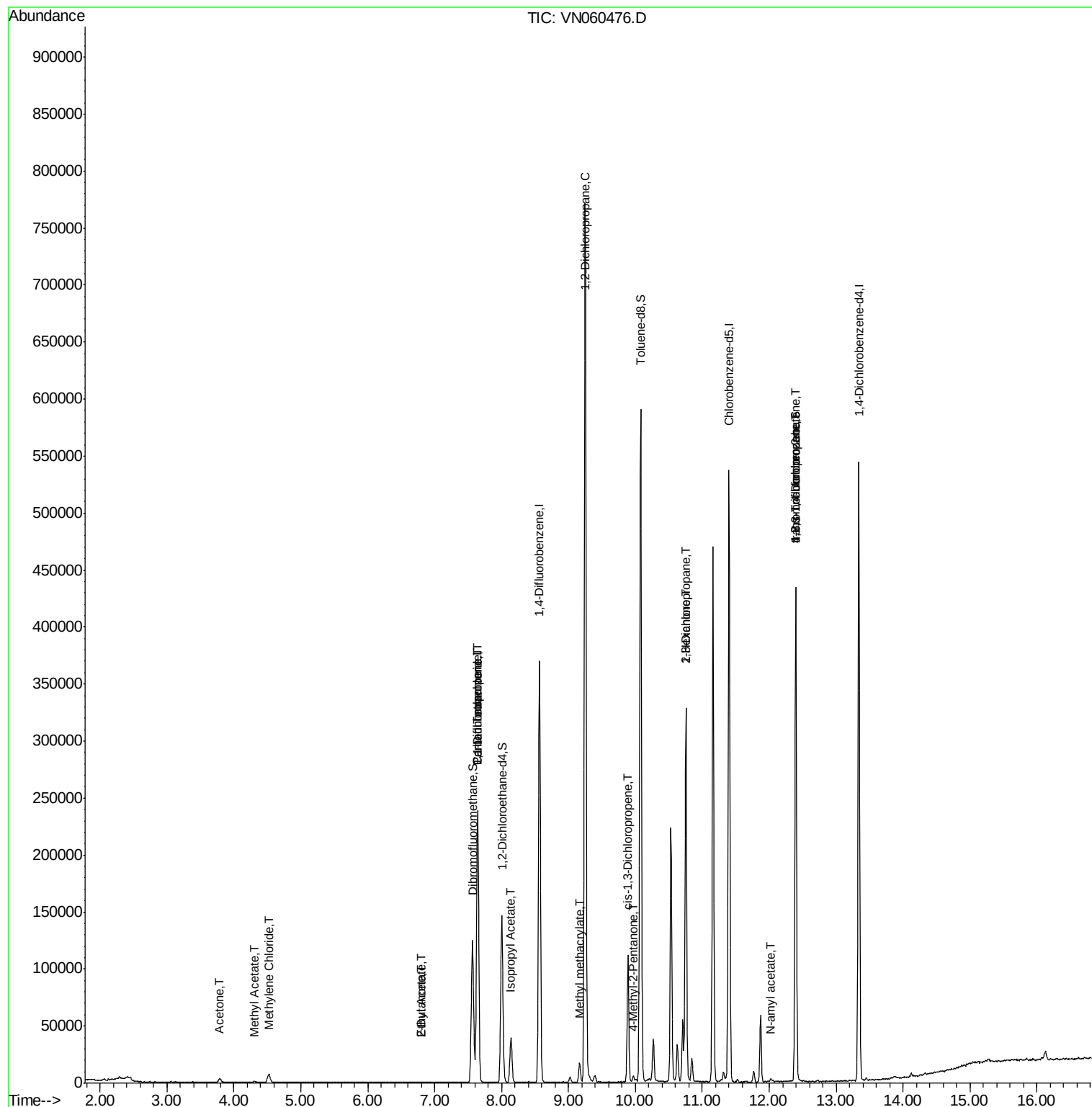
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 16) Acetone                    | 3.79  | 43   | 7083     | 8.76      | ug/l  | 97     |
| 18) Methyl Acetate             | 4.30  | 43   | 1353     | 0.50      | ug/l  | # 52   |
| 20) Methylene Chloride         | 4.52  | 84   | 5746     | 2.59      | ug/l  | 96     |
| 25) 2-Butanone                 | 6.80  | 43   | 589      | 0.45      | ug/l  | # 49   |
| 31) Cyclohexane                | 7.64  | 56   | 4087     | Below Cal | #     | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 14898    | 4.83      | ug/l  | # 46   |
| 37) Ethyl Acetate              | 6.80  | 43   | 589      | 0.20      | ug/l  | # 68   |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18753    | 6.24      | ug/l  | # 15   |
| 43) Isopropyl Acetate          | 8.14  | 43   | 46568    | 9.10      | ug/l  | # 91   |
| 45) 1,2-Dichloropropane        | 9.25  | 63   | 858      | 0.37      | ug/l  | # 44   |
| 48) Methyl methacrylate        | 9.16  | 41   | 2290     | 0.98      | ug/l  | # 13   |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 3967     | 1.37      | ug/l  | 90     |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75   | 20286    | 5.15      | ug/l  | # 58   |
| 57) 1,3-Dichloropropane        | 10.75 | 76   | 3277     | 0.89      | ug/l  | # 42   |
| 59) 2-Hexanone                 | 10.75 | 43   | 47545    | 22.32     | ug/l  | # 52   |
| 74) N-amyl acetate             | 12.02 | 43   | 2050     | 0.45      | ug/l  | # 44   |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 75764    | 24.48     | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 75764    | 67.57     | ug/l  | # 8    |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 63       | Below Cal | #     | 25     |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 63       | Below Cal | #     | 25     |
| 95) Naphthalene                | 15.13 | 128  | 129      | Below Cal | #     | 69     |

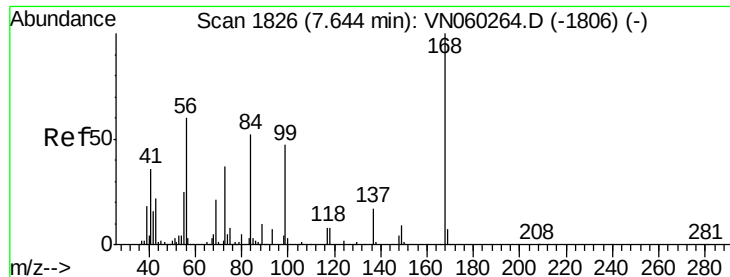
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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Quant Time: Mar 13 02:04:03 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 27 13:52:50 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampleId :

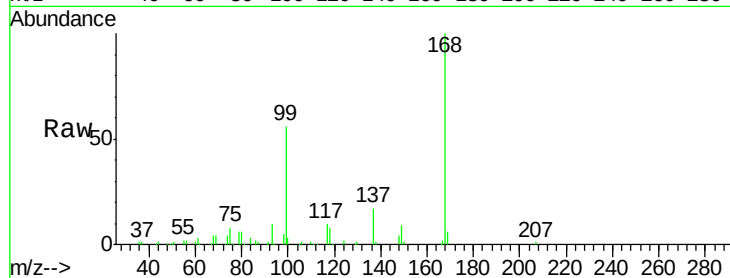
TP-2-DA

Tgt Ion:168 Resp: 195211

Ion Ratio Lower Upper

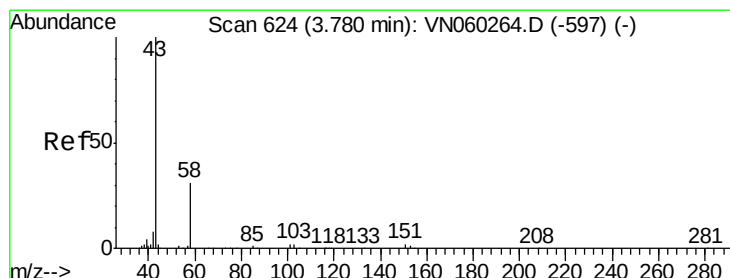
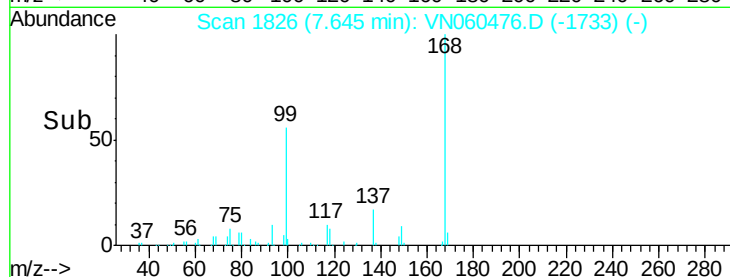
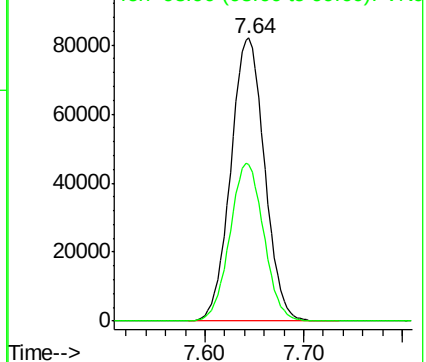
168 100

99 55.6 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 8.76 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060476.D

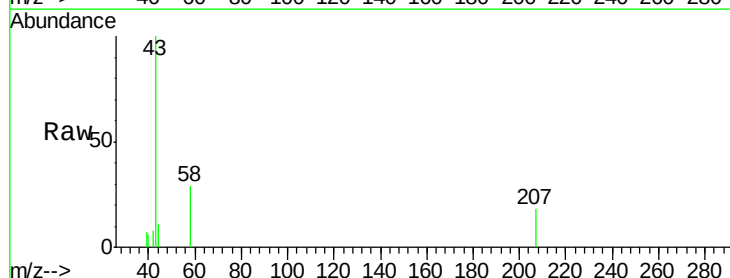
Acq: 12 Mar 2020 14:03

Tgt Ion: 43 Resp: 7083

Ion Ratio Lower Upper

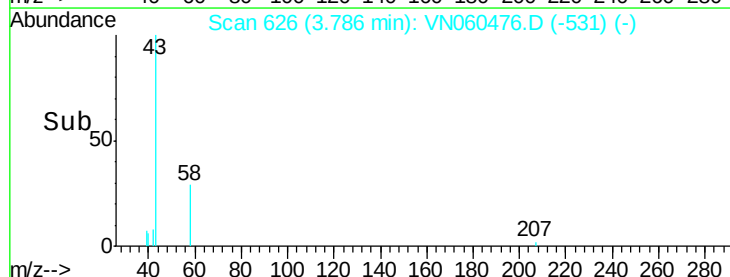
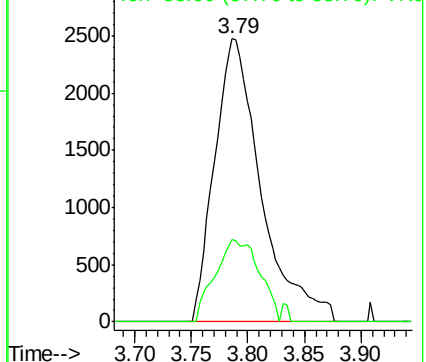
43 100

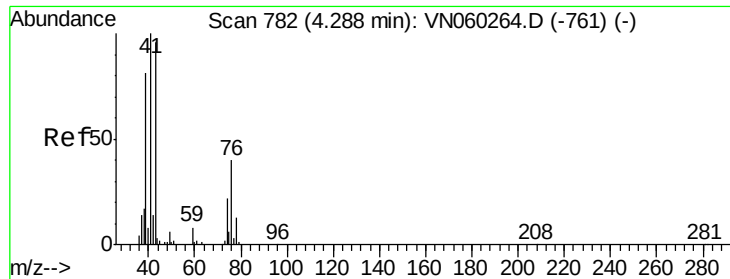
58 29.1 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

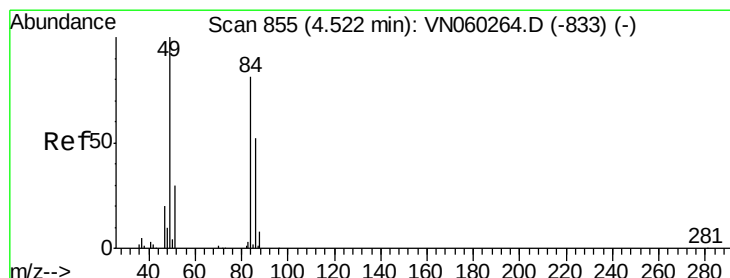
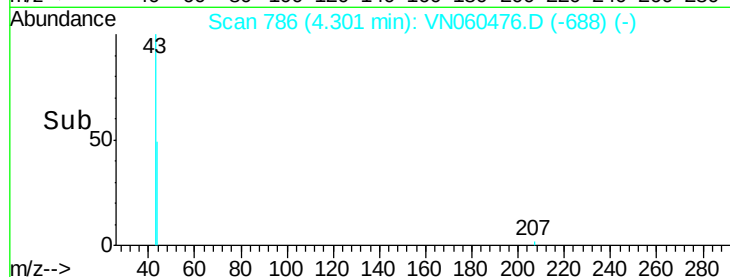
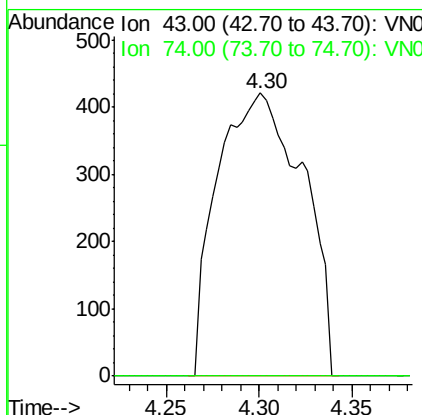
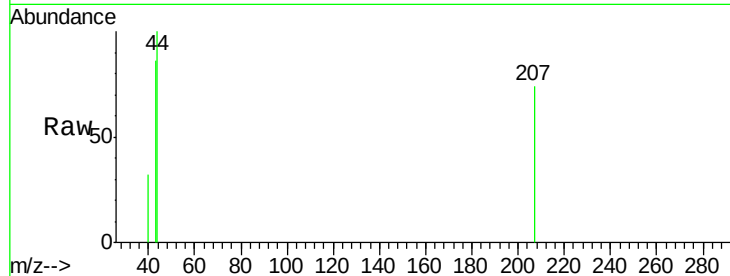




#18  
Methyl Acetate  
Concen: 0.50 ug/l  
RT: 4.30 min Scan# 786  
Delta R.T. 0.01 min  
Lab File: VN060476.D  
Acq: 12 Mar 2020 14:03

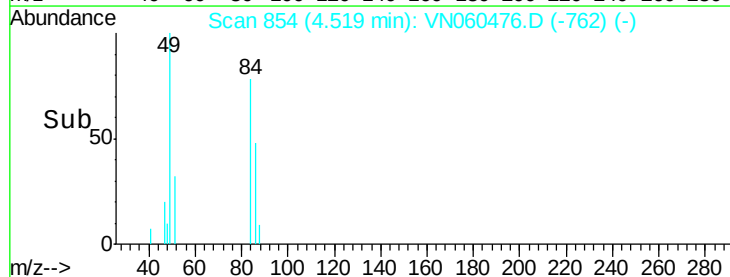
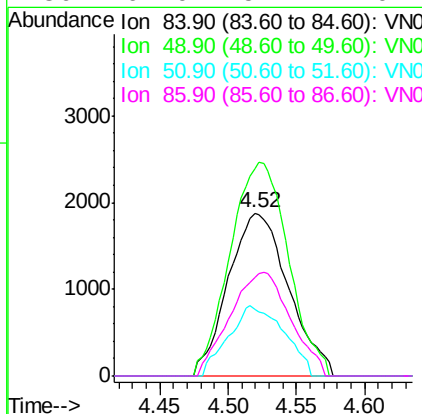
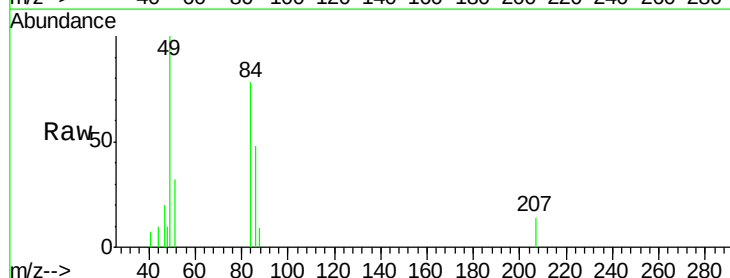
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-2-DA

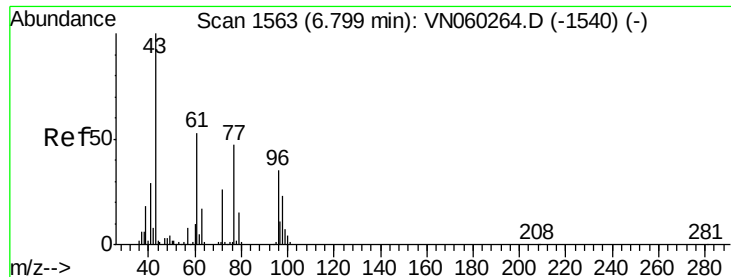
Tgt Ion: 43 Resp: 1353  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.8 28.2#



#20  
Methylene Chloride  
Concen: 2.59 ug/l  
RT: 4.52 min Scan# 854  
Delta R.T. -0.00 min  
Lab File: VN060476.D  
Acq: 12 Mar 2020 14:03

Tgt Ion: 84 Resp: 5746  
Ion Ratio Lower Upper  
84 100  
49 127.6 99.3 148.9  
51 40.9 30.1 45.1  
86 61.0 51.1 76.7





#25

2-Butanone

Concen: 0.45 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampled :

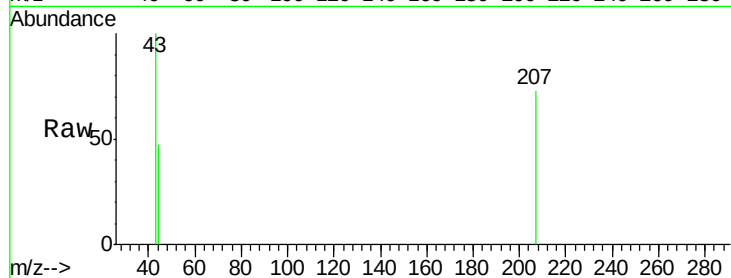
TP-2-DA

Tgt Ion: 43 Resp: 589

Ion Ratio Lower Upper

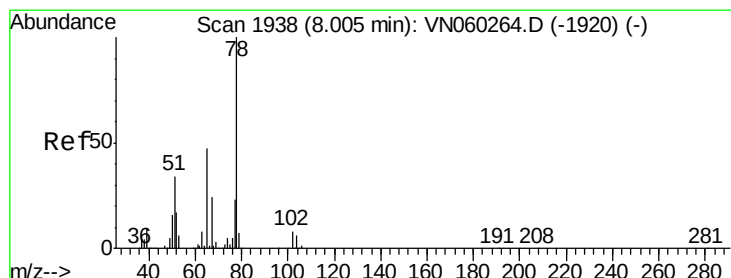
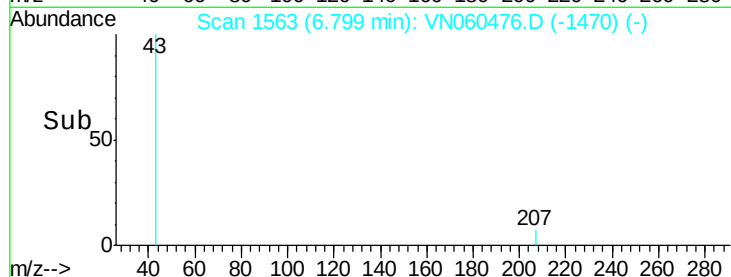
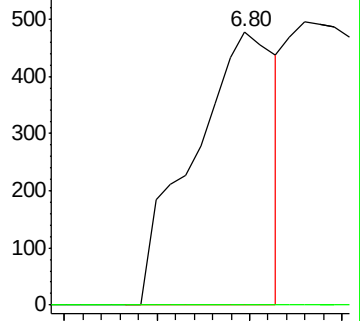
43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.10 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060476.D

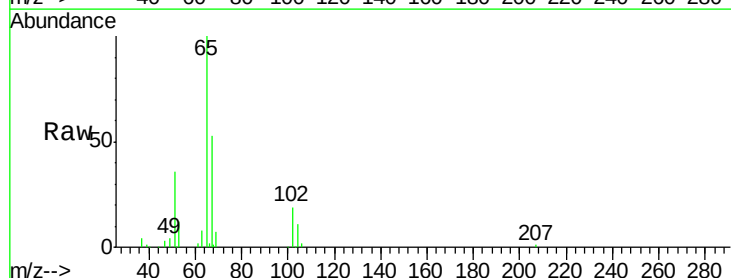
Acq: 12 Mar 2020 14:03

Tgt Ion: 65 Resp: 127991

Ion Ratio Lower Upper

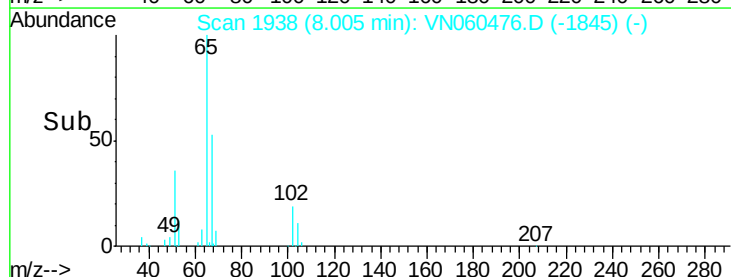
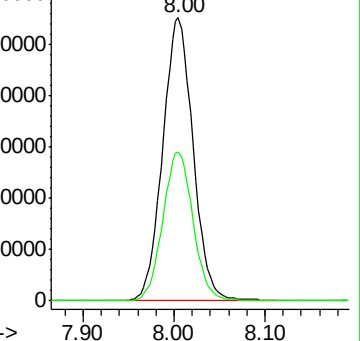
65 100

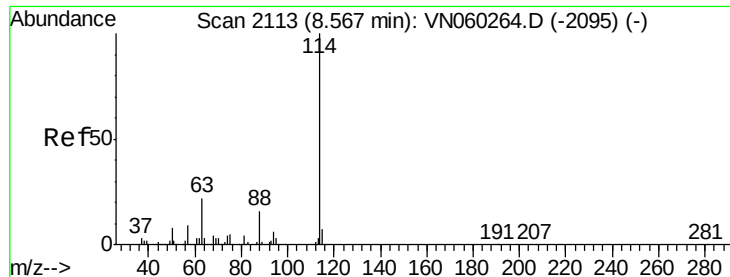
67 52.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

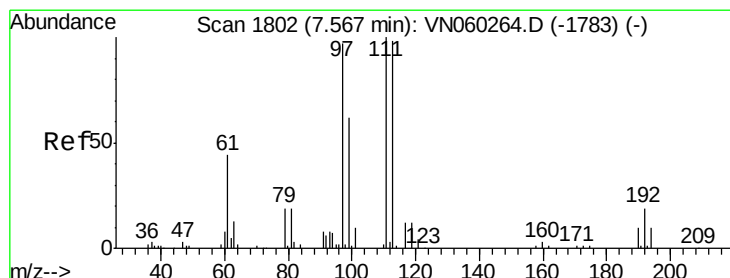
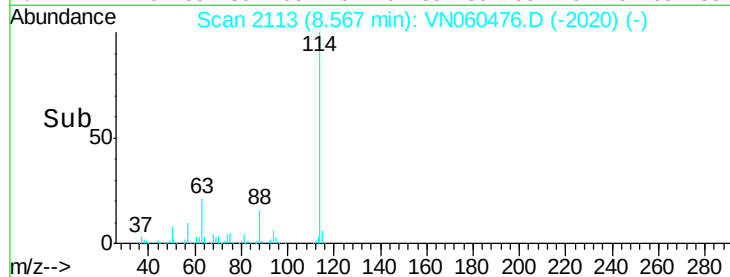
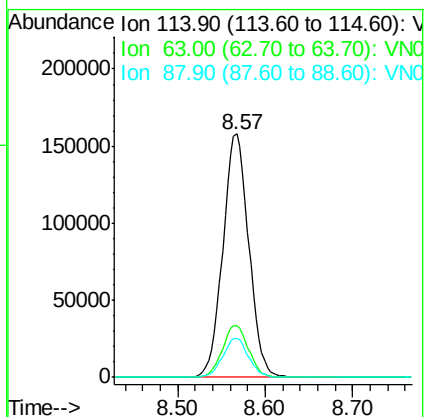
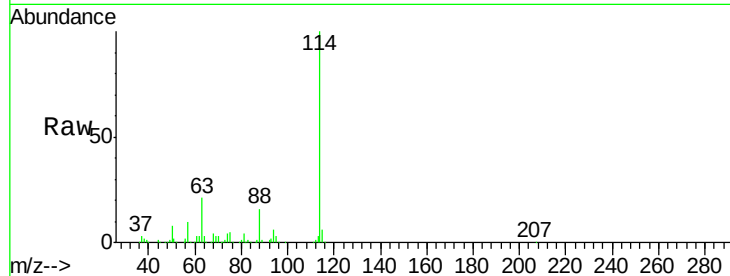




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.57 min Scan# 2113  
Delta R.T. 0.00 min  
Lab File: VN060476.D  
Acq: 12 Mar 2020 14:03

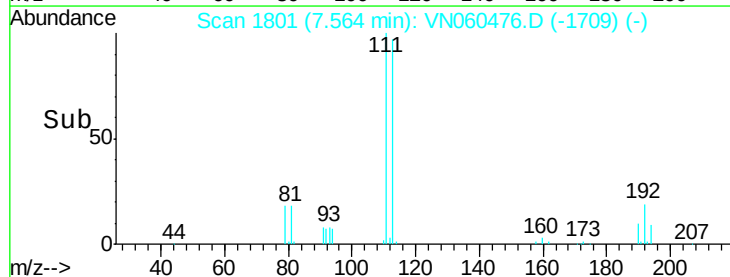
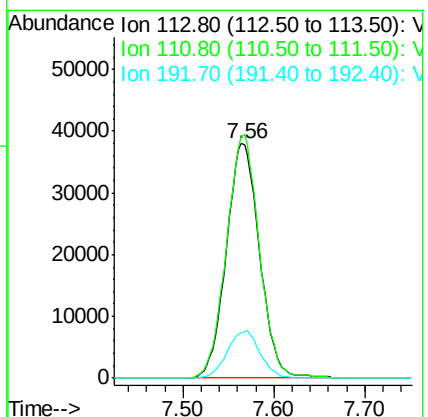
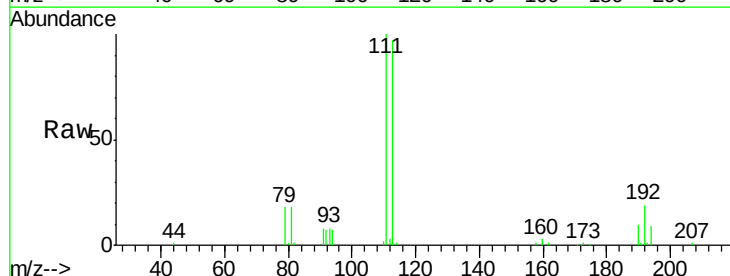
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-2-DA

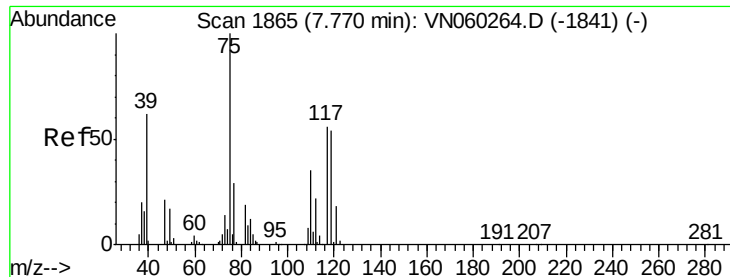
Tgt Ion:114 Resp: 323915  
Ion Ratio Lower Upper  
114 100  
63 21.2 0.0 43.2  
88 16.0 0.0 31.6



#35  
Dibromofluoromethane  
Concen: 64.12 ug/l  
RT: 7.56 min Scan# 1801  
Delta R.T. -0.00 min  
Lab File: VN060476.D  
Acq: 12 Mar 2020 14:03

Tgt Ion:113 Resp: 96409  
Ion Ratio Lower Upper  
113 100  
111 102.5 82.4 123.6  
192 19.8 16.2 24.2





#36

1,1-Dichloropropene

Concen: 4.83 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampled :

TP-2-DA

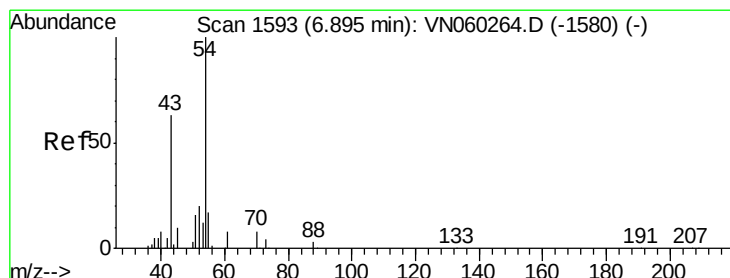
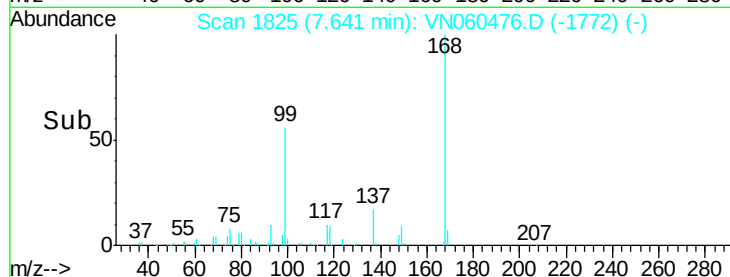
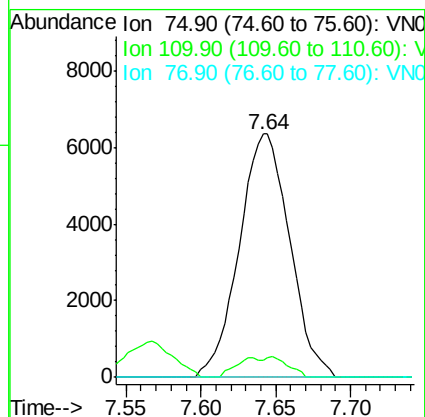
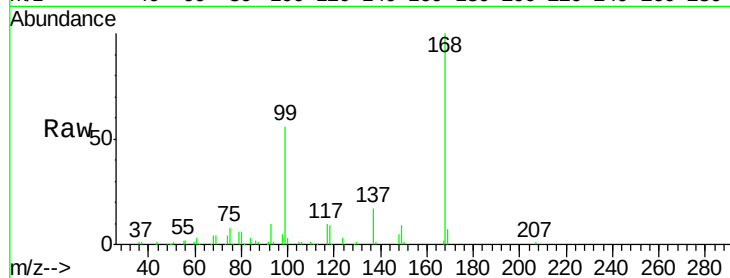
Tgt Ion: 75 Resp: 14898

Ion Ratio Lower Upper

75 100

110 3.8 17.3 52.0#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 0.20 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.10 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

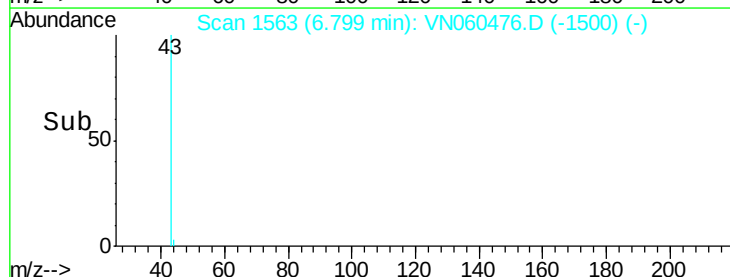
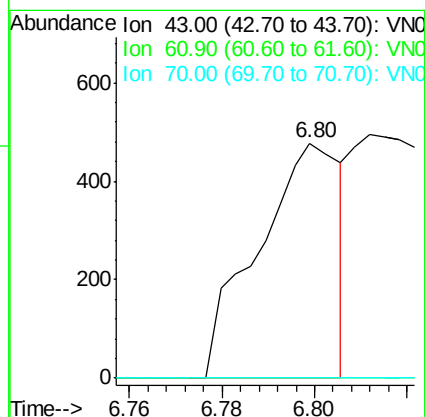
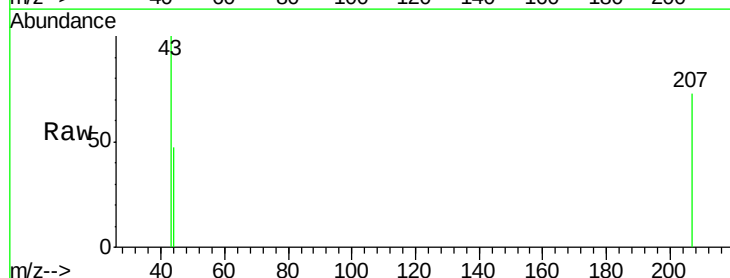
Tgt Ion: 43 Resp: 589

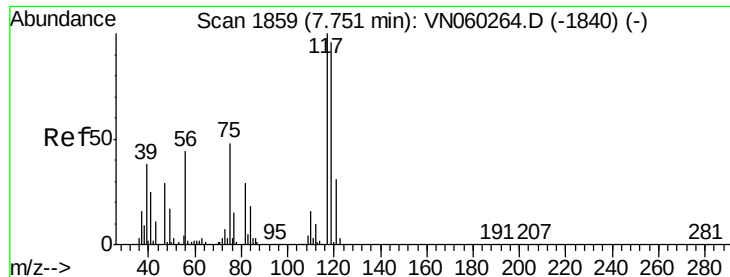
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.24 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampled :

TP-2-DA

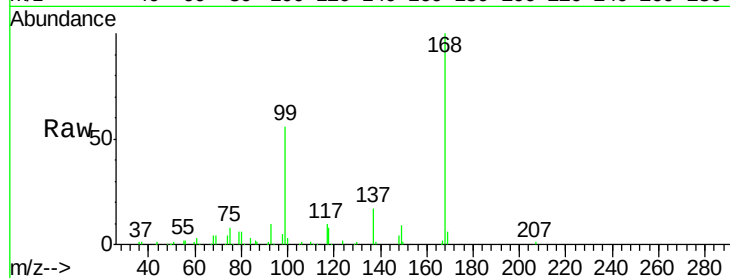
Tgt Ion:117 Resp: 18753

Ion Ratio Lower Upper

117 100

119 4.4 76.7 115.1#

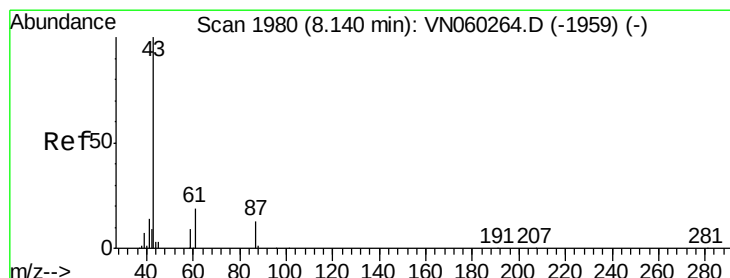
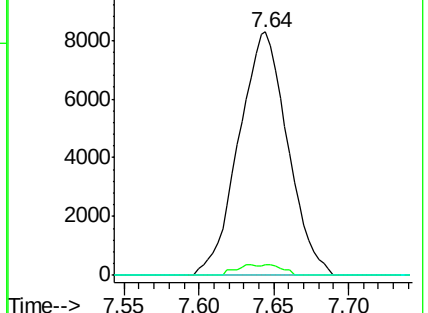
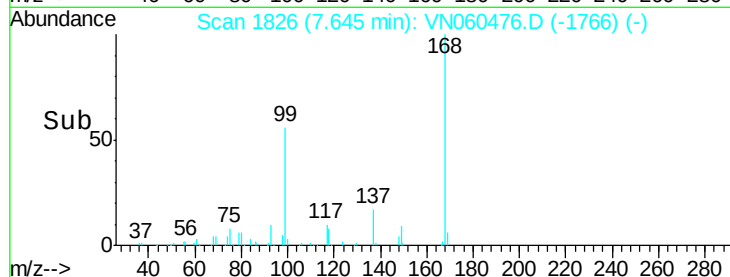
121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 9.10 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

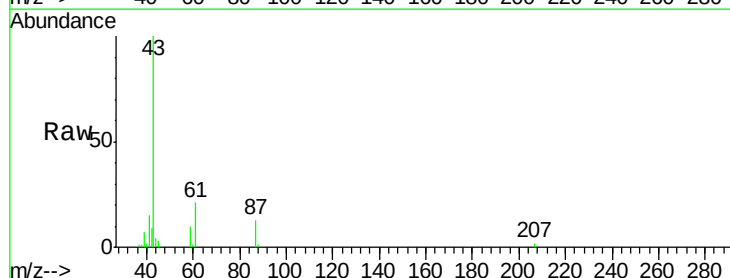
Tgt Ion: 43 Resp: 46568

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

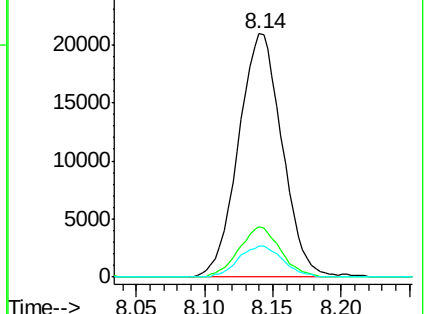
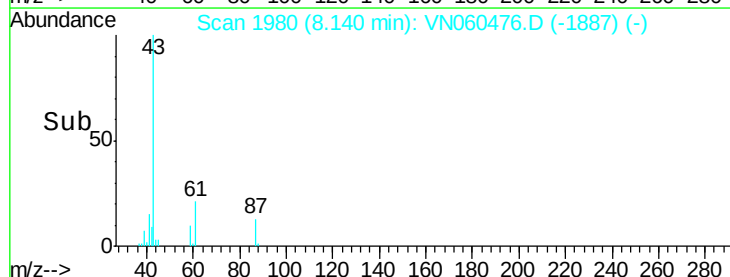
87 12.8 10.6 16.0



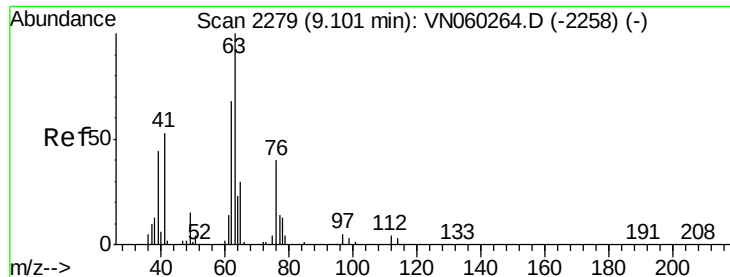
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V







#45

1,2-Dichloropropane

Concen: 0.37 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampled :

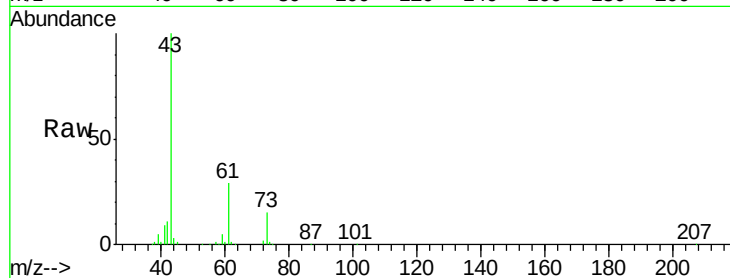
TP-2-DA

Tgt Ion: 63 Resp: 858

Ion Ratio Lower Upper

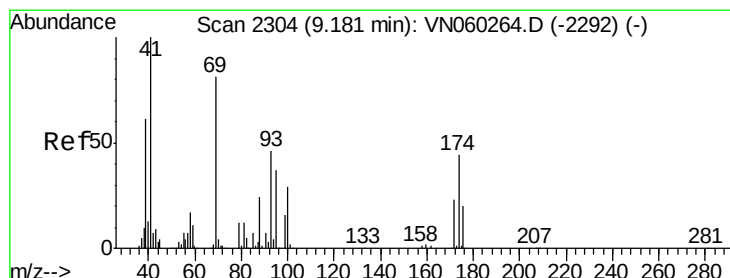
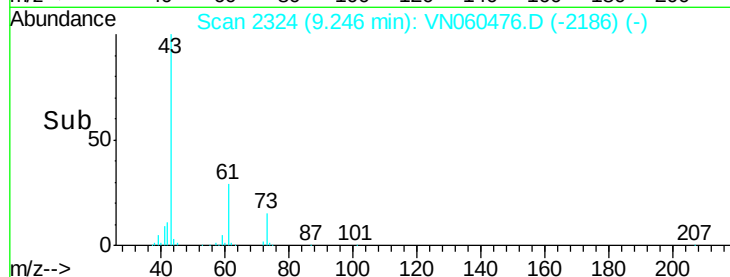
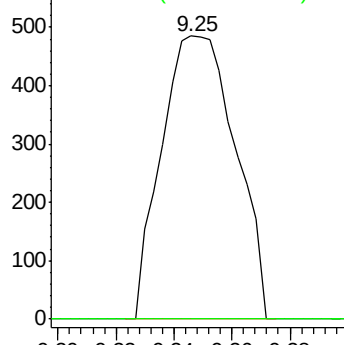
63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 0.98 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

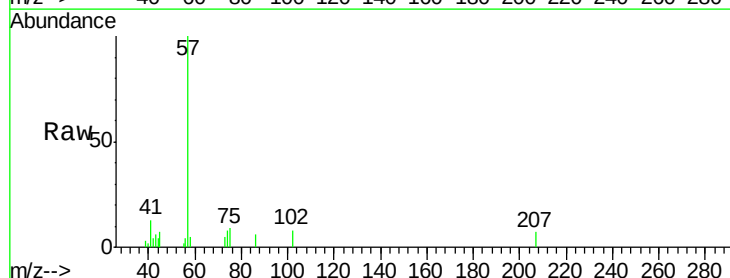
Tgt Ion: 41 Resp: 2290

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

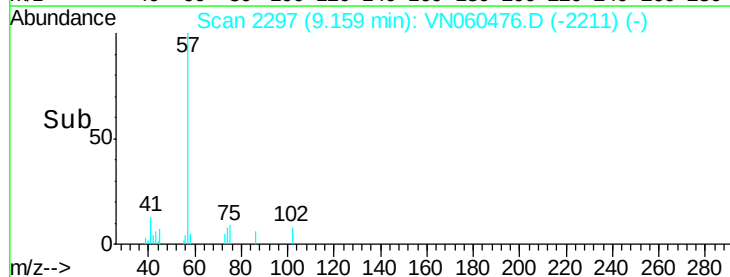
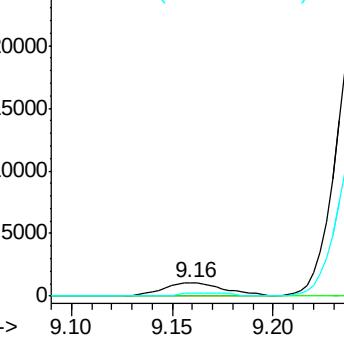
39 0.0 50.1 75.1#

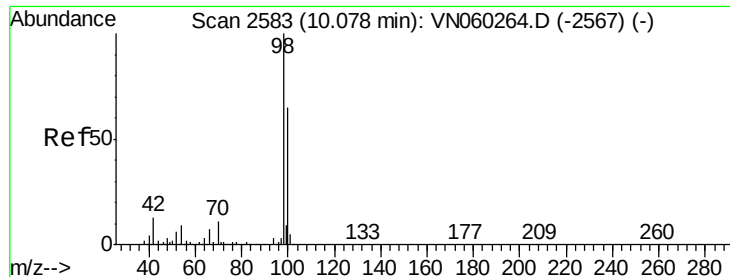


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 52.73 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampled :

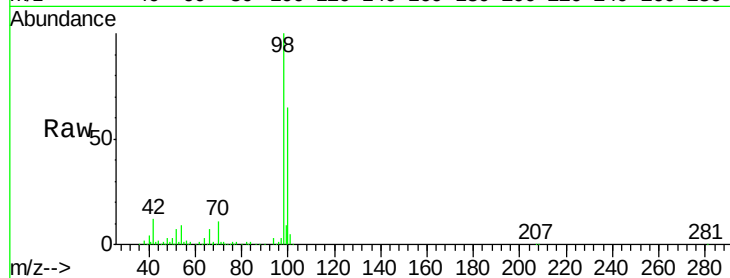
TP-2-DA

Tgt Ion: 98 Resp: 401218

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

250000

200000

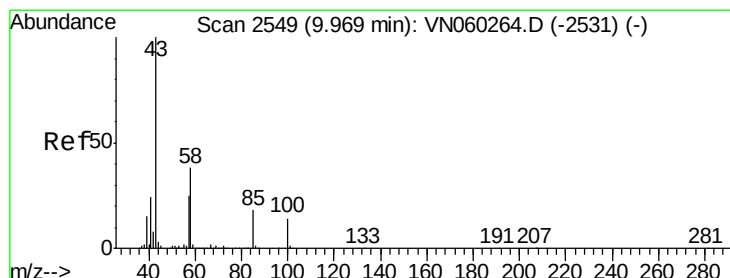
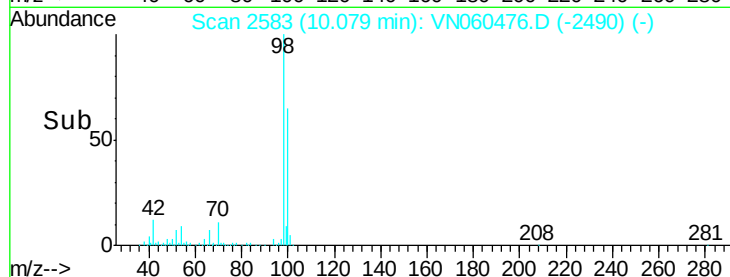
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.37 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060476.D

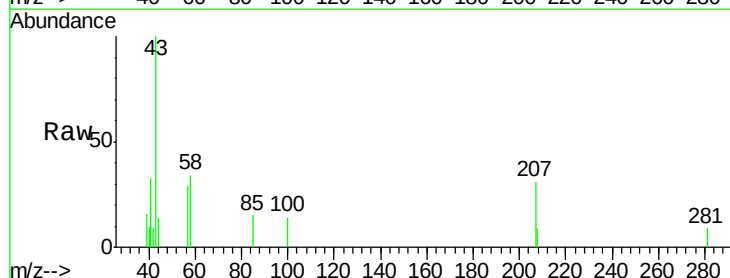
Acq: 12 Mar 2020 14:03

Tgt Ion: 43 Resp: 3967

Ion Ratio Lower Upper

43 100

58 32.4 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10000

8000

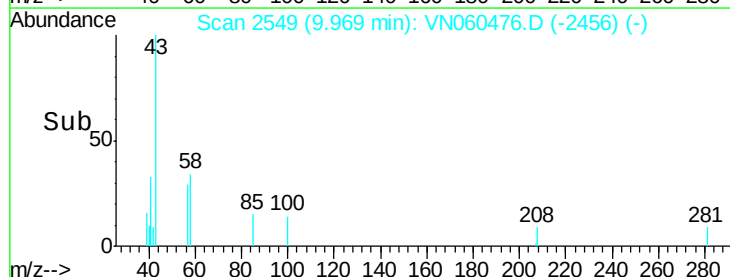
6000

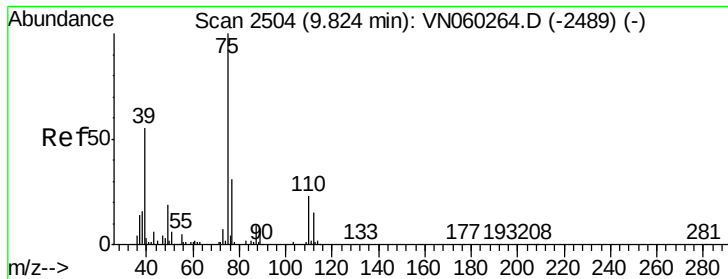
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.15 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampled :

TP-2-DA

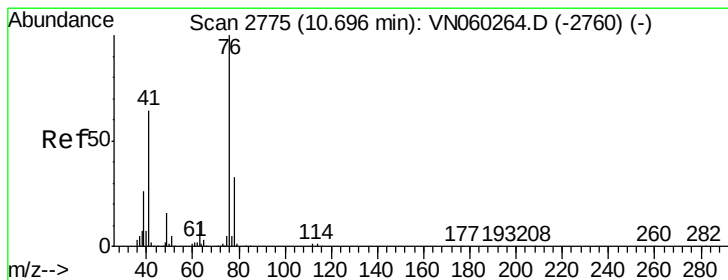
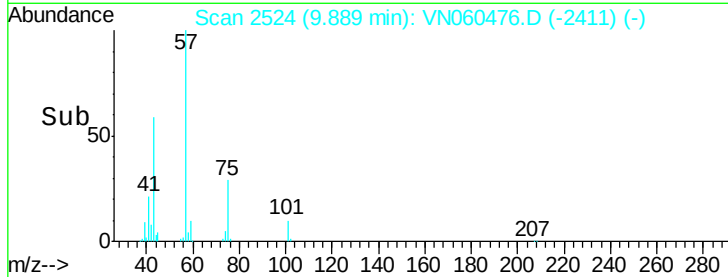
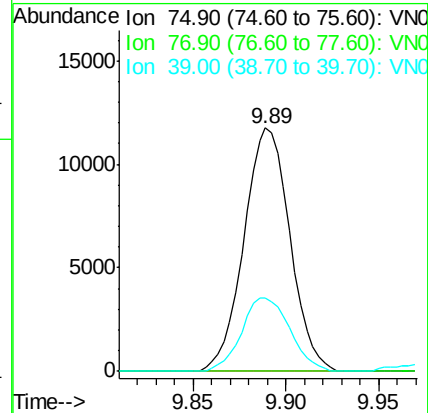
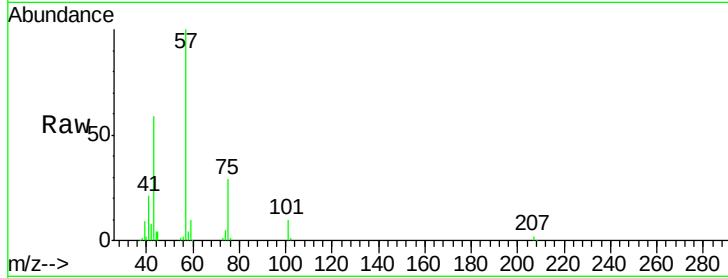
Tgt Ion: 75 Resp: 20286

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 30.0 43.8 65.8#



#57

1,3-Dichloropropane

Concen: 0.89 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060476.D

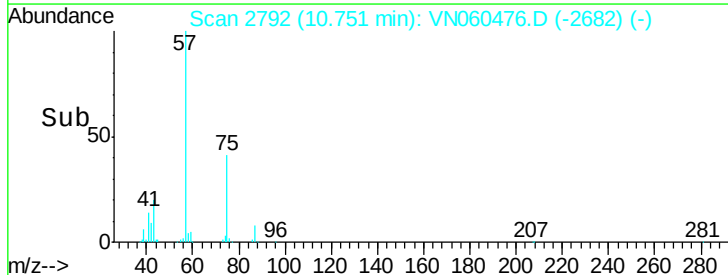
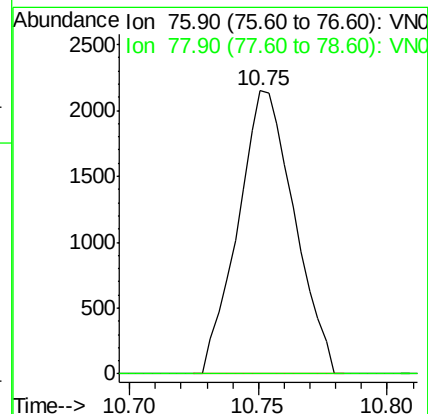
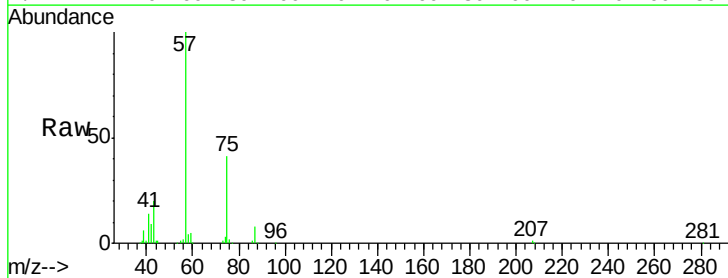
Acq: 12 Mar 2020 14:03

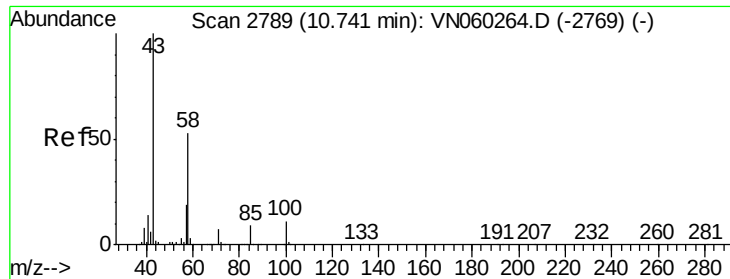
Tgt Ion: 76 Resp: 3277

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#

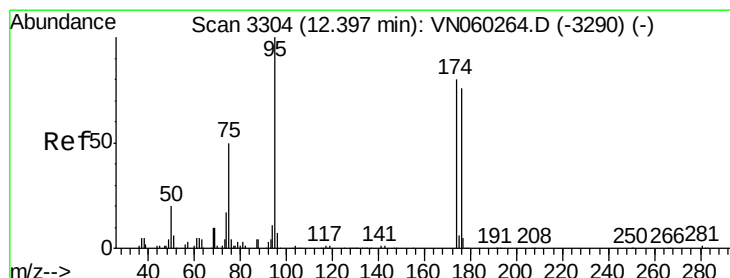
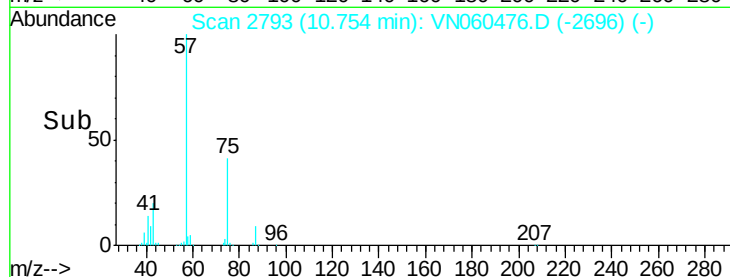
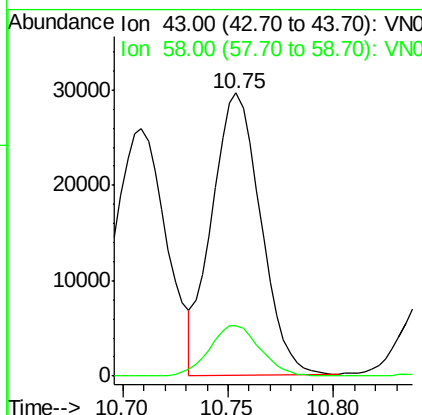
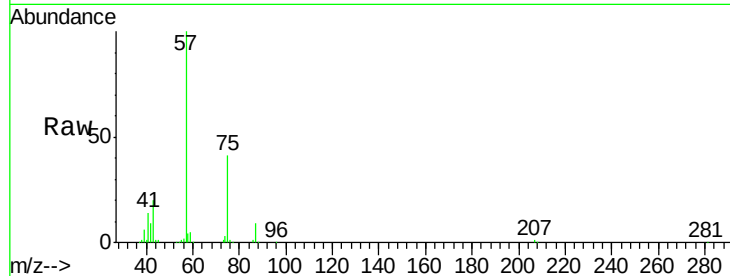




#59  
2-Hexanone  
Concen: 22.32 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.01 min  
Lab File: VN060476.D  
Acq: 12 Mar 2020 14:03

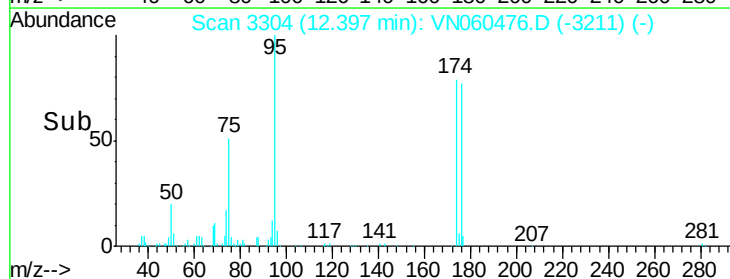
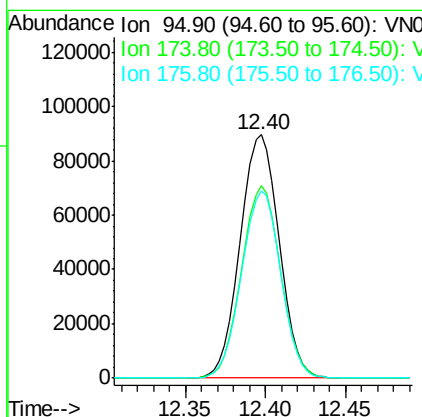
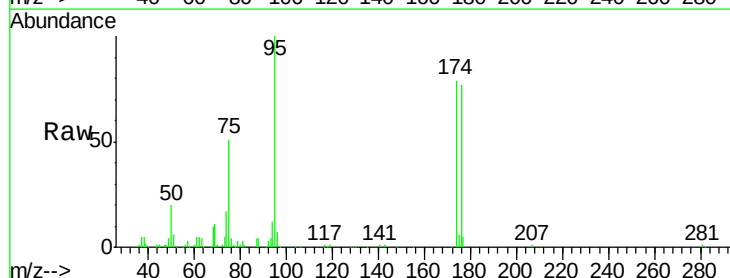
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-2-DA

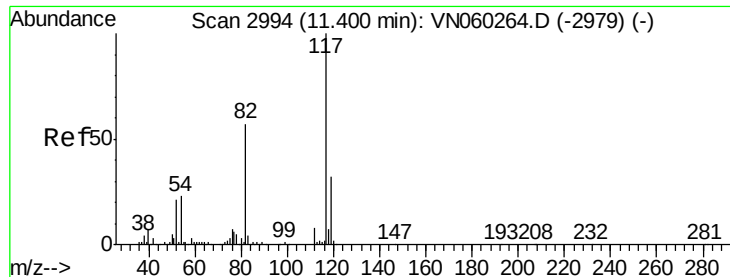
Tgt Ion: 43 Resp: 47545  
Ion Ratio Lower Upper  
43 100  
58 18.6 26.5 79.5#



#62  
4-Bromofluorobenzene  
Concen: 51.83 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.00 min  
Lab File: VN060476.D  
Acq: 12 Mar 2020 14:03

Tgt Ion: 95 Resp: 149504  
Ion Ratio Lower Upper  
95 100  
174 78.9 0.0 159.2  
176 77.1 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampleId :

TP-2-DA

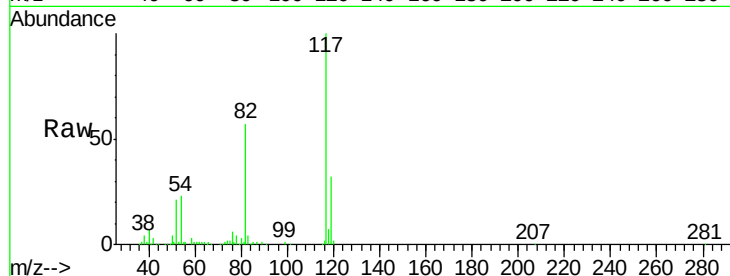
Tgt Ion:117 Resp: 306028

Ion Ratio Lower Upper

117 100

82 57.5 45.8 68.6

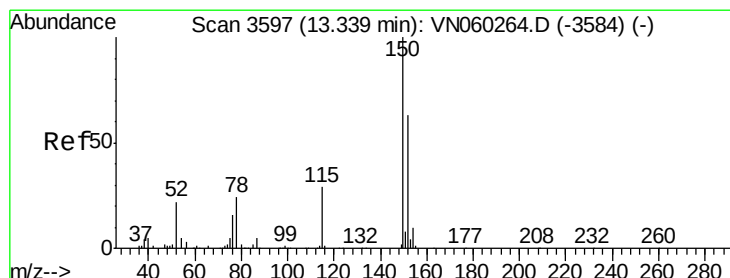
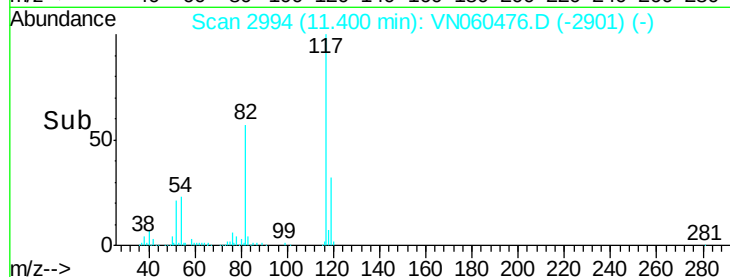
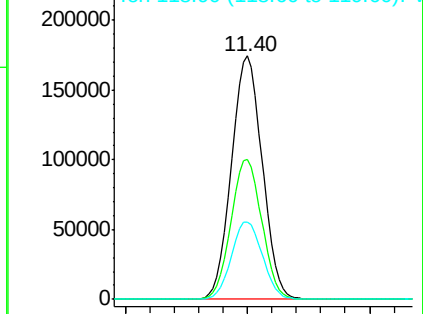
119 31.9 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

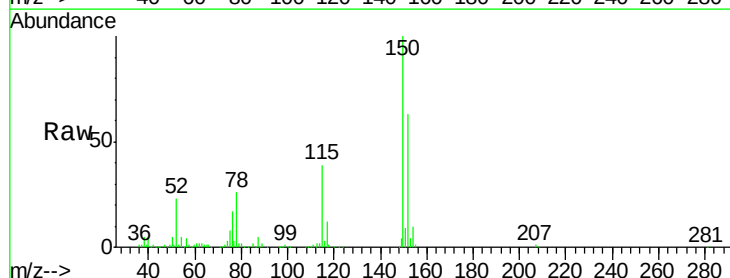
Tgt Ion:152 Resp: 141066

Ion Ratio Lower Upper

152 100

115 60.3 30.0 90.0

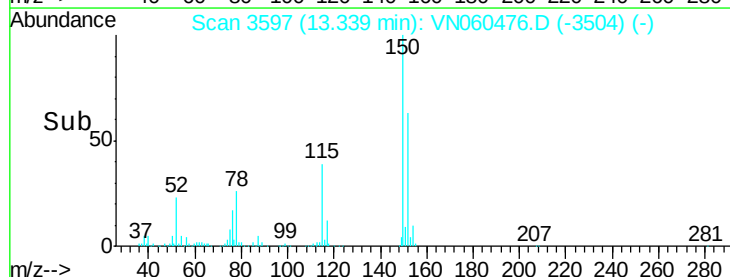
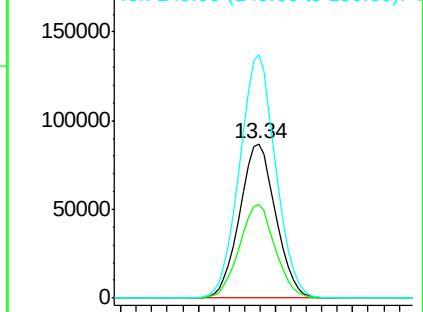
150 157.6 0.0 349.6

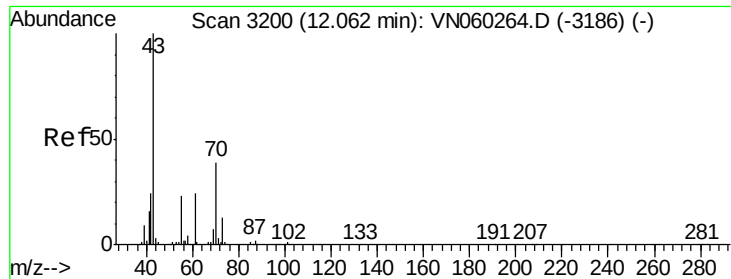


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.45 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampleId :

TP-2-DA

Tgt Ion: 43 Resp: 2050

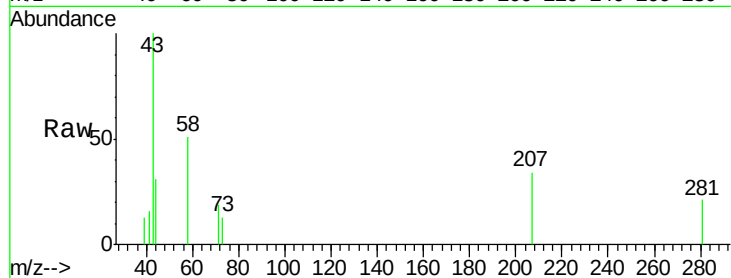
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

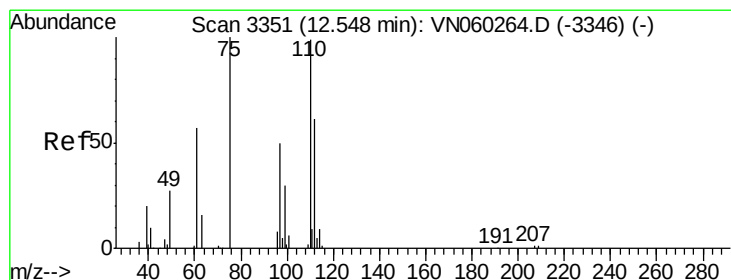
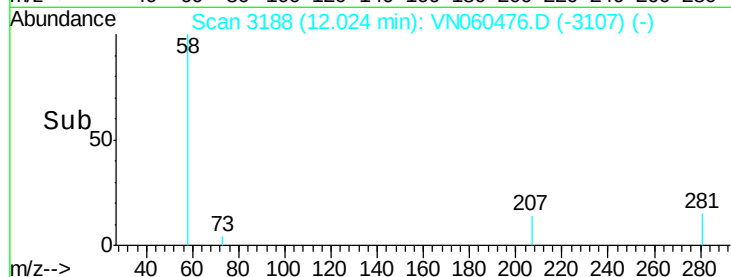
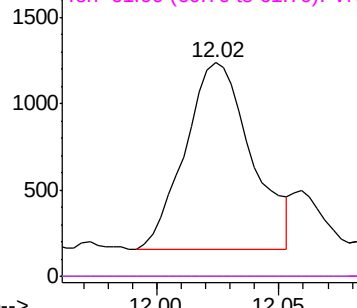


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 24.48 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060476.D

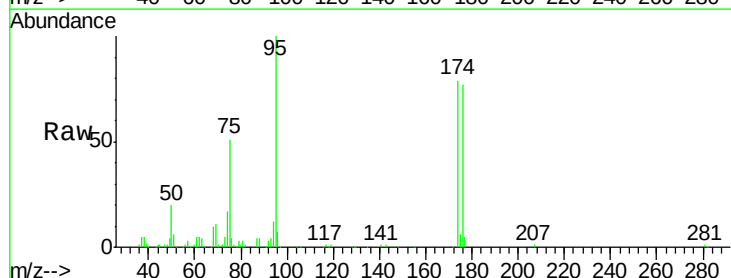
Acq: 12 Mar 2020 14:03

Tgt Ion: 75 Resp: 75764

Ion Ratio Lower Upper

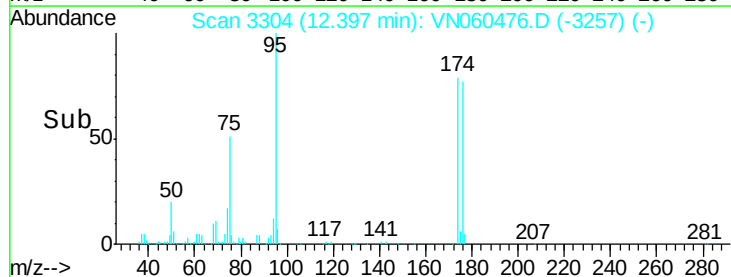
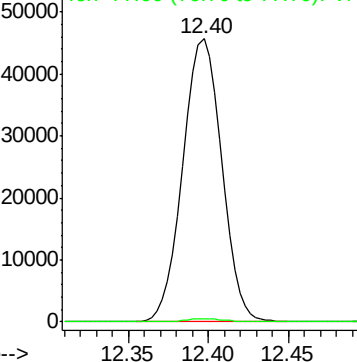
75 100

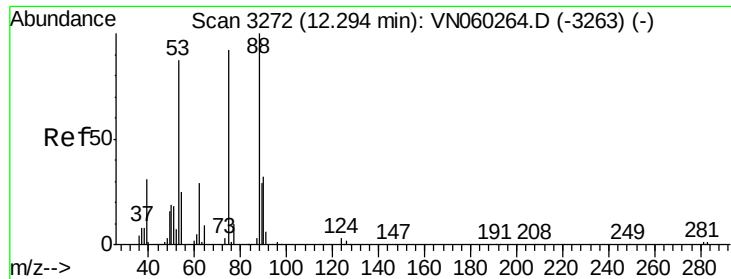
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 67.57 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampled :

TP-2-DA

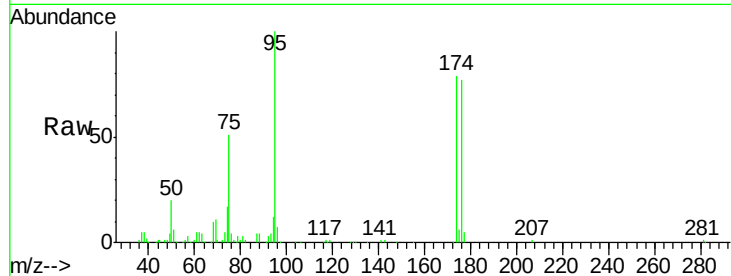
Tgt Ion: 75 Resp: 75764

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

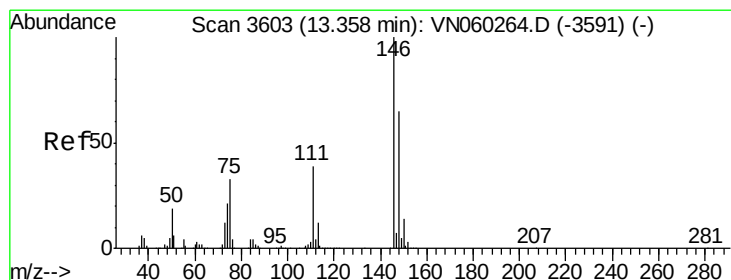
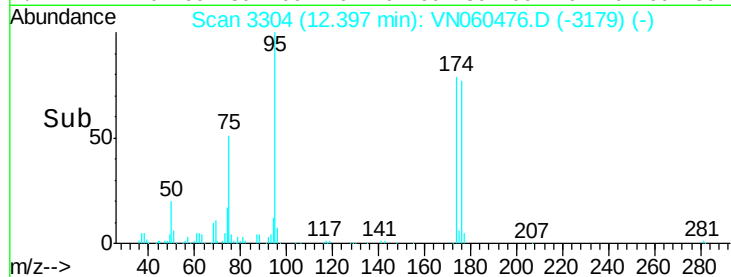
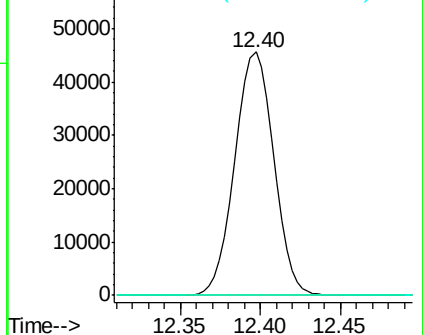
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060476.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060476.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060476.D (-3179) (-)



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.36 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VN060476.D

Acq: 12 Mar 2020 14:03

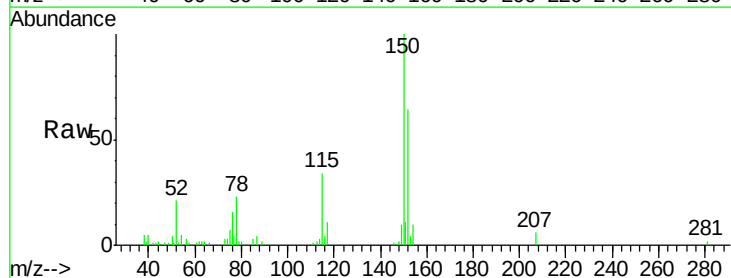
Tgt Ion: 146 Resp: 63

Ion Ratio Lower Upper

146 100

111 0.0 19.8 59.4#

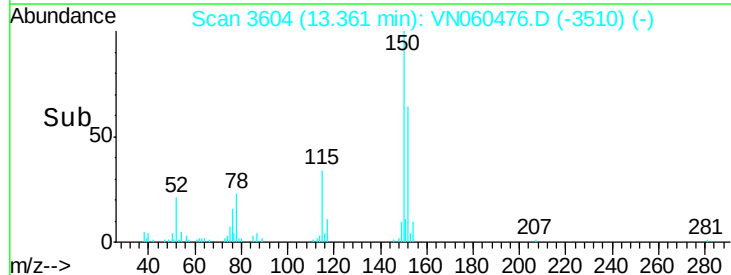
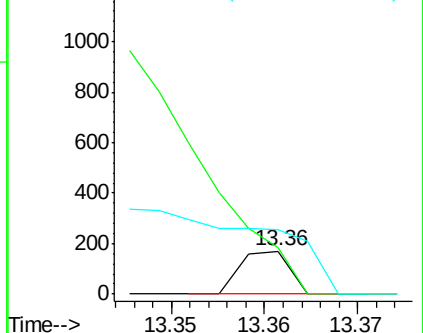
148 0.0 32.3 96.9#

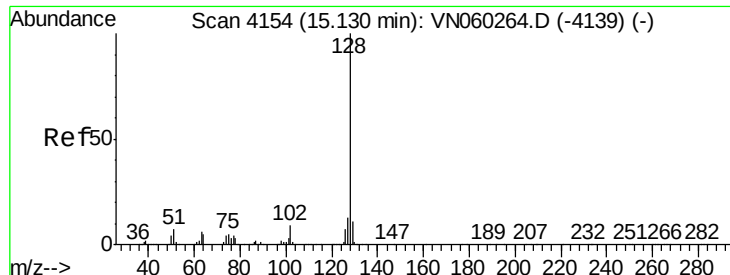


Abundance Ion 145.90 (145.60 to 146.60): VN060476.D (-3510) (-)

Ion 110.90 (110.60 to 111.60): VN060476.D (-3510) (-)

Ion 147.90 (147.60 to 148.60): VN060476.D (-3510) (-)





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060476.D

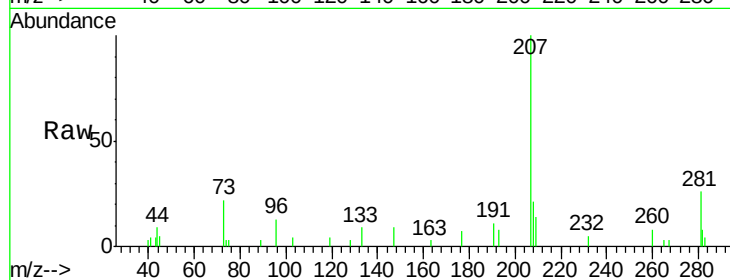
Acq: 12 Mar 2020 14:03

Instrument :

MSVOA\_N

ClientSampleId :

TP-2-DA



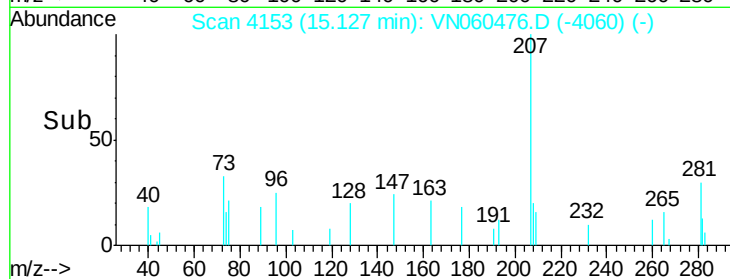
Tgt Ion:128 Resp: 129

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): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

