

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111320\  
 Data File : VN064643.D  
 Acq On : 13 Nov 2020 20:22  
 Operator : JC/MD  
 Sample : L4719-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-3-S

Quant Time: Nov 17 01:59:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 12:09:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 215417   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 464450   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 516869   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 182118   | 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   | 222391   | 59.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.54% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 166087   | 52.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.04% |          |
| 50) Toluene-d8              | 10.06 | 98   | 630255   | 51.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.14% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 228801   | 49.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.00%  |          |

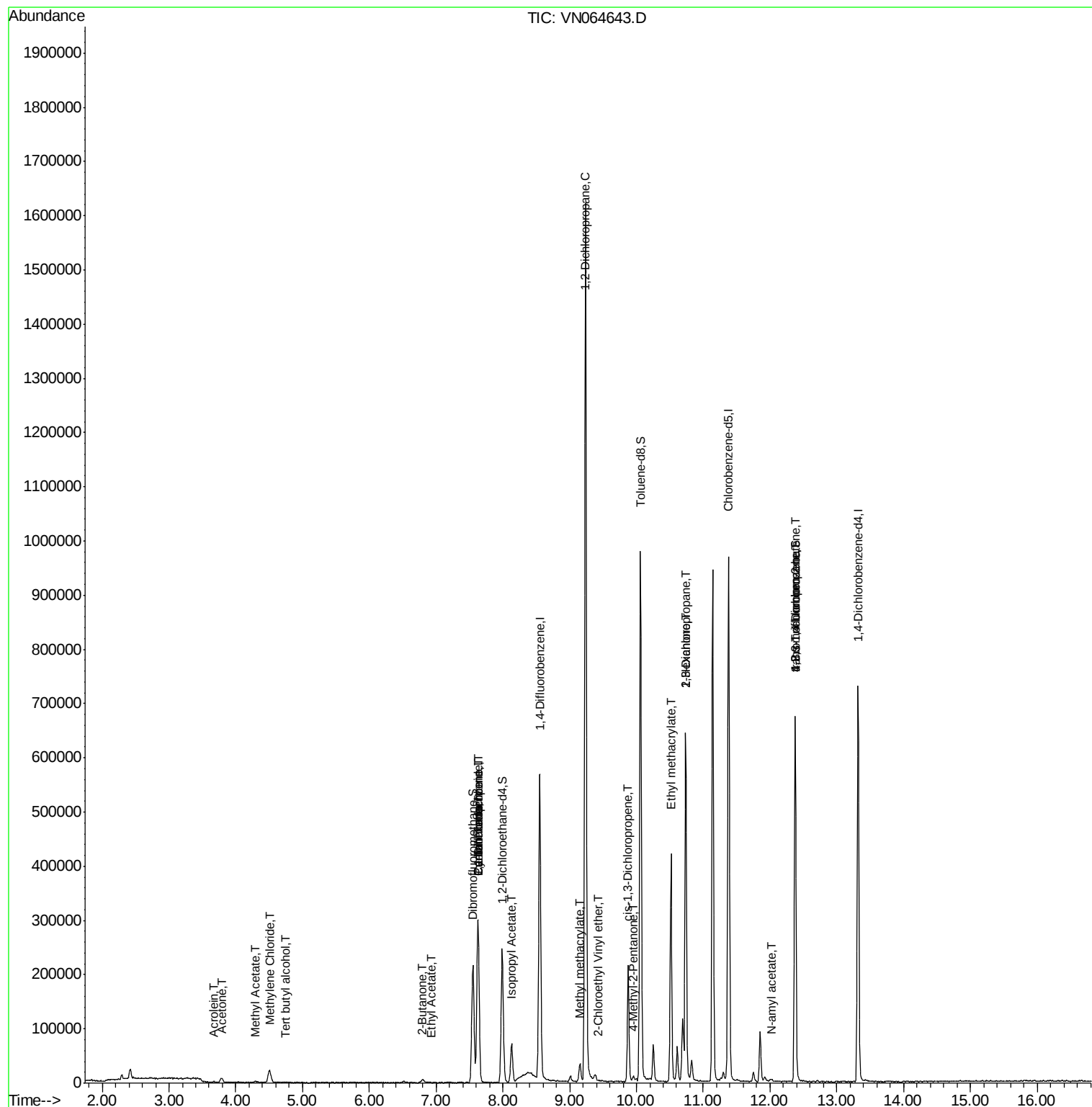
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.75  | 59   | 555      | 1.341  | ug/l # | 71     |
| 13) Acrolein                   | 3.65  | 56   | 68       | 0.265  | ug/l # | 15     |
| 16) Acetone                    | 3.78  | 43   | 13906    | 9.729  | ug/l   | 94     |
| 18) Methyl Acetate             | 4.29  | 43   | 4122     | 1.467  | ug/l # | 65     |
| 20) Methylene Chloride         | 4.51  | 84   | 15707    | 5.539  | ug/l   | 88     |
| 25) 2-Butanone                 | 6.79  | 43   | 6773     | 3.719  | ug/l # | 89     |
| 31) Cyclohexane                | 7.63  | 56   | 6501     | 1.425  | ug/l # | 33     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 21511    | 4.384  | ug/l # | 54     |
| 37) Ethyl Acetate              | 6.92  | 43   | 325      | 0.827  | ug/l # | 71     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 25962    | 4.951  | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.13  | 43   | 83774    | 10.536 | ug/l   | 99     |
| 45) 1,2-Dichloropropane        | 9.23  | 63   | 1634     | 0.425  | ug/l # | 45     |
| 48) Methyl methacrylate        | 9.15  | 41   | 5950     | 1.483  | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 7947     | 1.714  | ug/l   | 91     |
| 54) cis-1,3-Dichloropropene    | 9.87  | 75   | 31861    | 5.162  | ug/l # | 77     |
| 56) Ethyl methacrylate         | 10.52 | 69   | 3413     | 2.424  | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.74 | 76   | 6004     | 1.003  | ug/l # | 42     |
| 58) 2-Chloroethyl Vinyl ether  | 9.43  | 63   | 81       | 21.566 | ug/l # | 51     |
| 59) 2-Hexanone                 | 10.74 | 43   | 100686   | 30.227 | ug/l # | 57     |
| 74) N-amyl acetate             | 12.01 | 43   | 3513     | 1.703  | ug/l # | 53     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 130740   | 29.629 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 130740   | 82.728 | ug/l # | 8      |

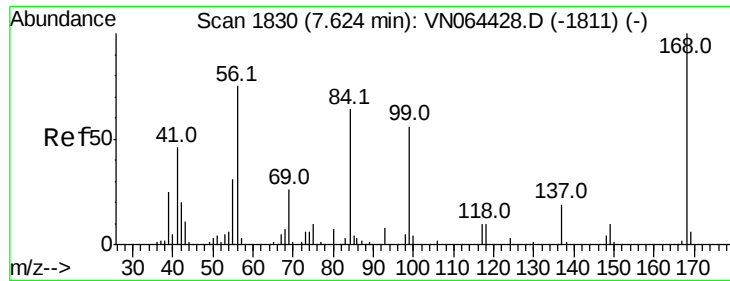
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Nov 04 12:09:03 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Instrument :

MSVOA\_N

ClientSampled :

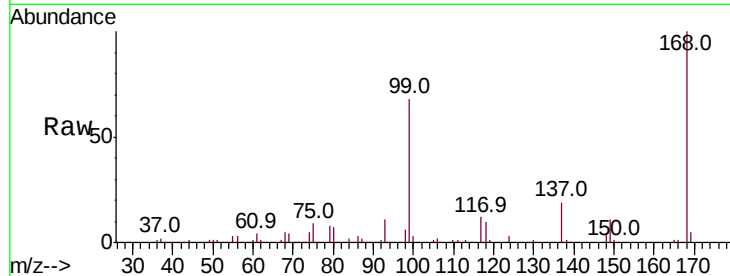
TP-3-S

Tot Ion:168 Resp: 215417

Ion Ratio Lower Upper

168 100

99 67.6 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

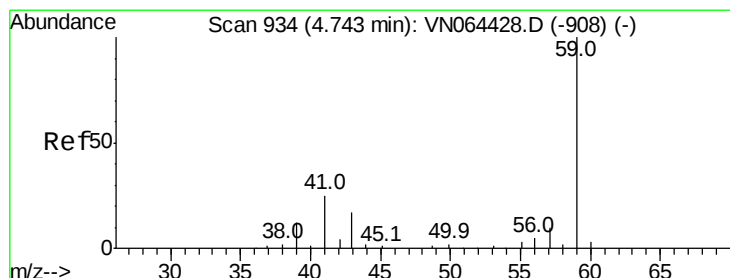
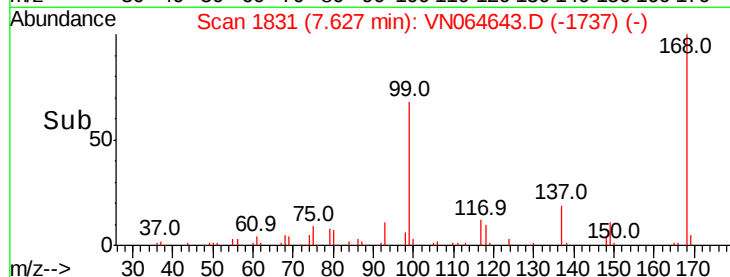
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 1.341 ug/l

RT: 4.75 min Scan# 935

Delta R.T. 0.00 min

Lab File: VN064643.D

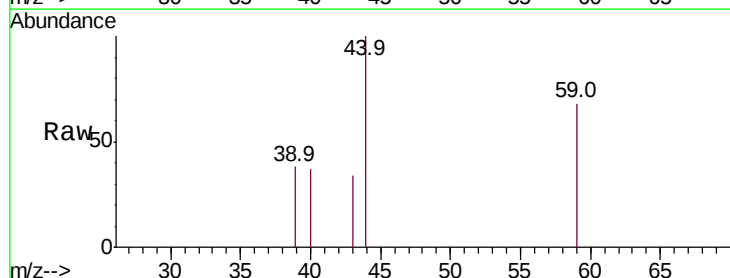
Acq: 13 Nov 2020 20:22

Tgt Ion: 59 Resp: 555

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

500

400

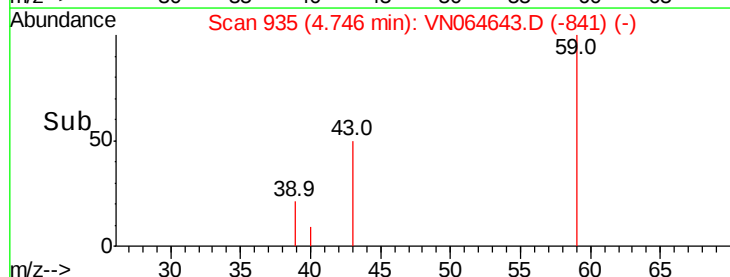
300

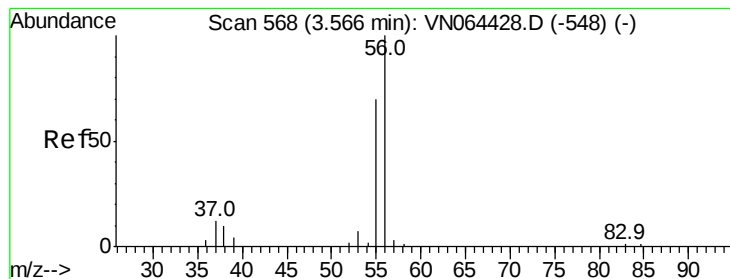
200

100

0

Time--> 4.72 4.74 4.76





#13

Acrolein

Concen: 0.265 ug/l

RT: 3.65 min Scan# 595

Delta R.T. 0.09 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Instrument :

MSVOA\_N

ClientSampled :

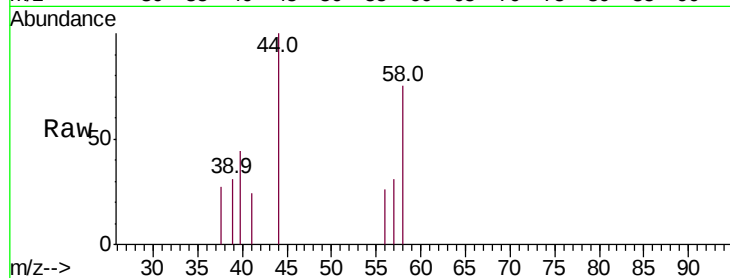
TP-3-S

Tot Ion: 56 Resp: 68

Ion Ratio Lower Upper

56 100

55 0.0 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.65

200

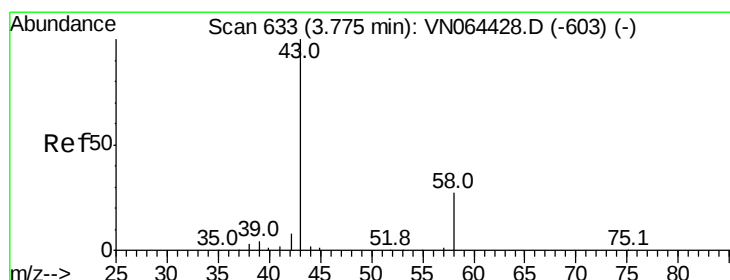
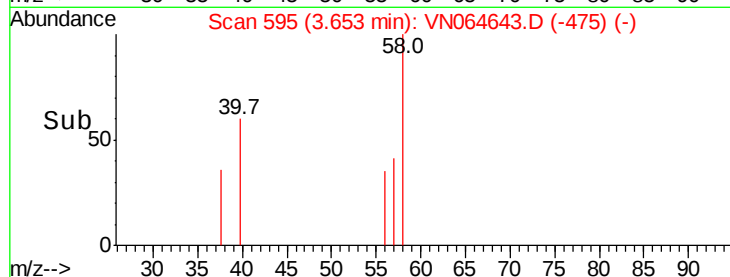
150

100

50

0

Time-->



#16

Acetone

Concen: 9.729 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064643.D

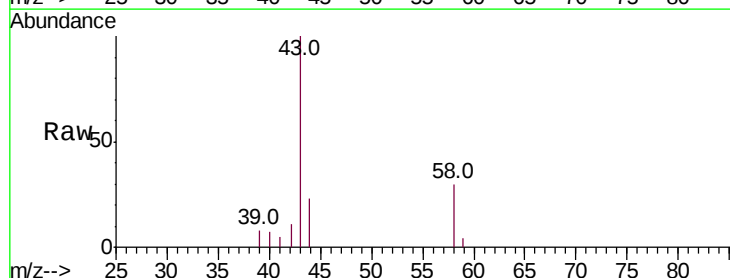
Acq: 13 Nov 2020 20:22

Tgt Ion: 43 Resp: 13906

Ion Ratio Lower Upper

43 100

58 29.6 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

5000

4000

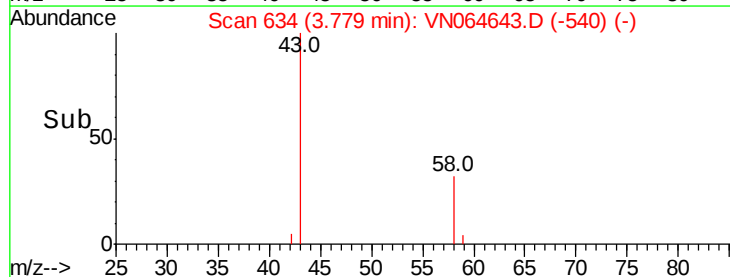
3000

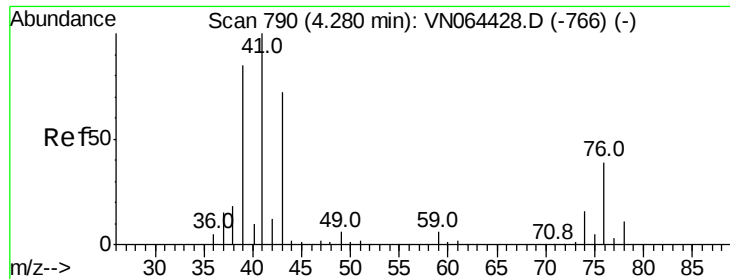
2000

1000

0

Time-->





#18

Methyl Acetate

Concen: 1.467 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Instrument :

MSVOA\_N

ClientSampled :

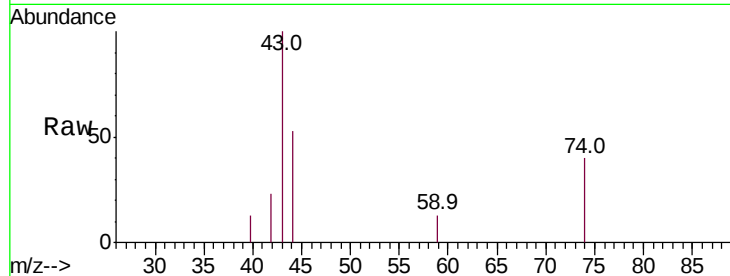
TP-3-S

Tot Ion: 43 Resp: 4122

Ion Ratio Lower Upper

43 100

74 4.9 17.0 25.4#



Abundance Ion 43.00 (42.70 to 43.70): VN064643.D (-697) (-)

Ion 74.00 (73.70 to 74.70): VN064643.D (-697) (-)

1500

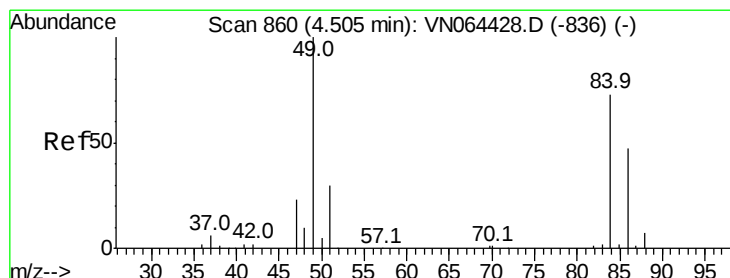
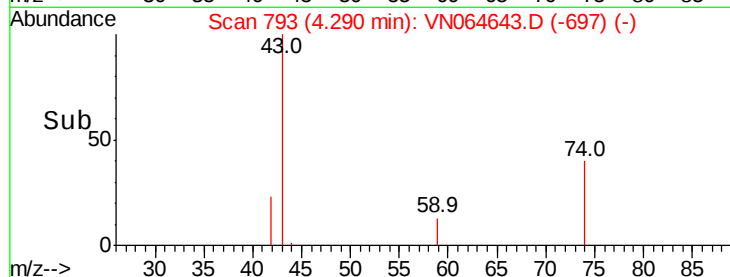
1000

500

0

Time-->

4.20 4.25 4.30 4.35



#20

Methylene Chloride

Concen: 5.539 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.00 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Tgt Ion: 84 Resp: 15707

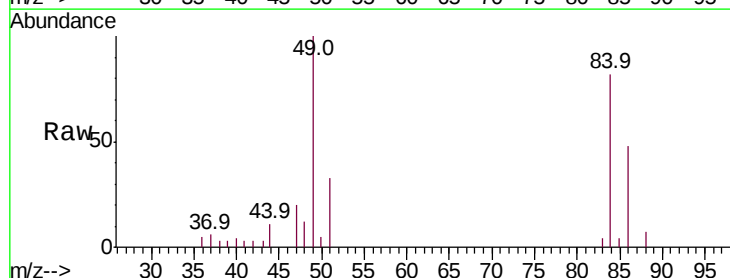
Ion Ratio Lower Upper

84 100

49 118.7 110.1 165.1

51 39.6 33.6 50.4

86 58.8 52.1 78.1



Abundance Ion 83.90 (83.60 to 84.60): VN064643.D (-767) (-)

Ion 48.90 (48.60 to 49.60): VN064643.D (-767) (-)

Ion 50.90 (50.60 to 51.60): VN064643.D (-767) (-)

Ion 85.90 (85.60 to 86.60): VN064643.D (-767) (-)

12000

10000

8000

6000

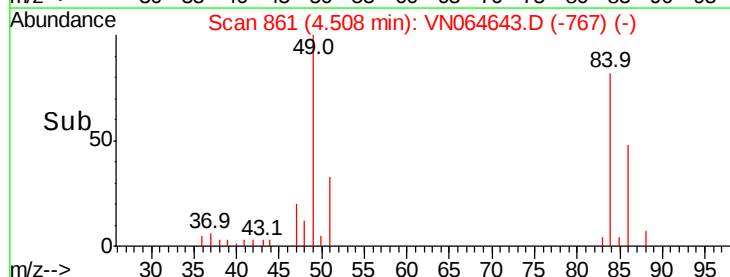
4000

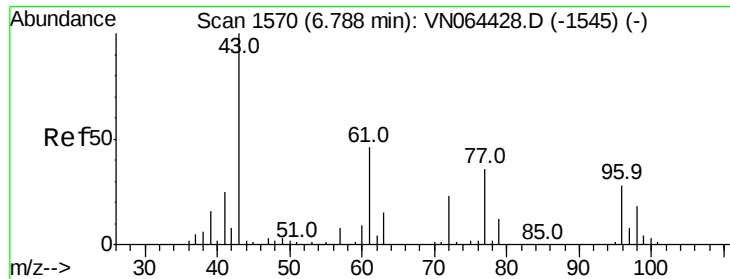
2000

0

Time-->

4.40 4.45 4.50 4.55 4.60

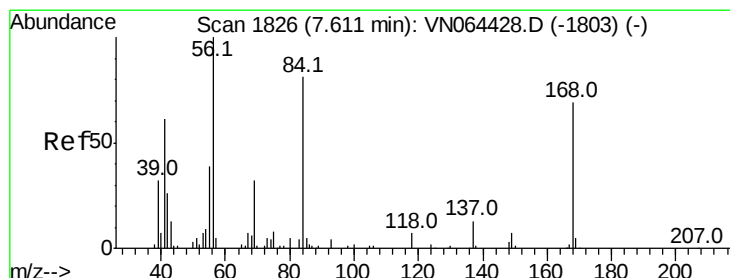
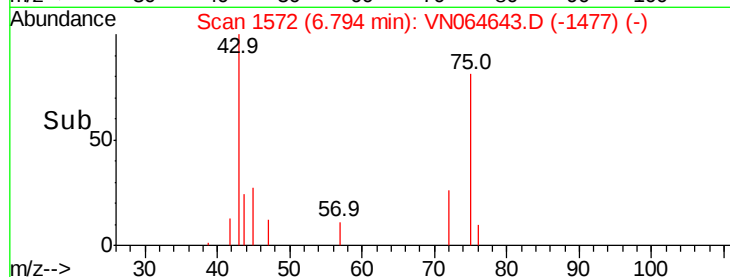
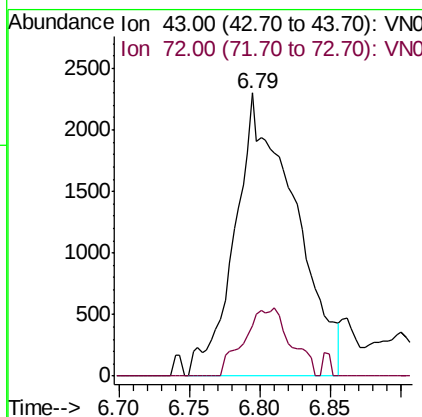
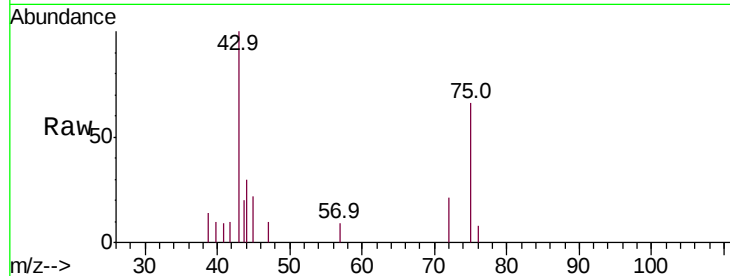




#25  
2-Butanone  
Concen: 3.719 ug/l  
RT: 6.79 min Scan# 1572  
Delta R.T. 0.01 min  
Lab File: VN064643.D  
Acq: 13 Nov 2020 20:22

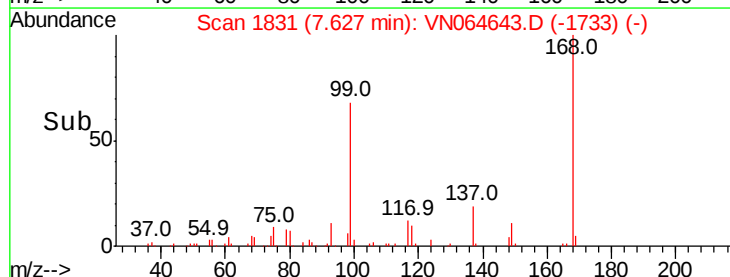
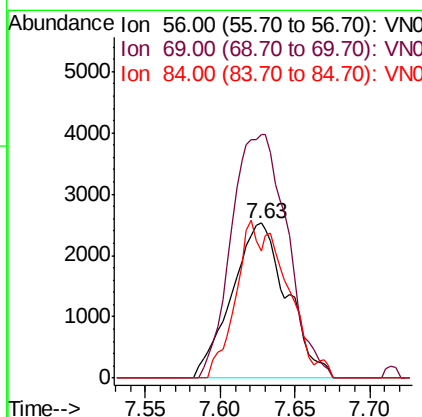
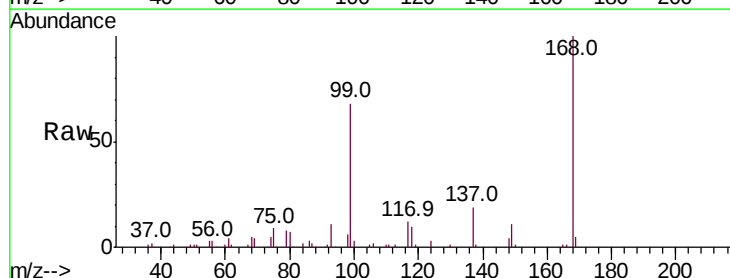
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-3-S

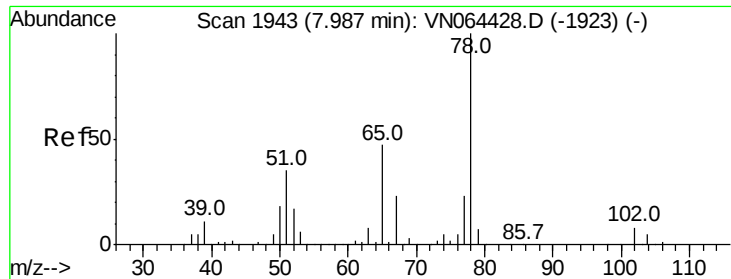
Tot Ion: 43 Resp: 6773  
Ion Ratio Lower Upper  
43 100  
72 17.9 18.5 27.7#



#31  
Cyclohexane  
Concen: 1.425 ug/l  
RT: 7.63 min Scan# 1831  
Delta R.T. 0.02 min  
Lab File: VN064643.D  
Acq: 13 Nov 2020 20:22

Tgt Ion: 56 Resp: 6501  
Ion Ratio Lower Upper  
56 100  
69 156.8 25.6 38.4#  
84 82.2 63.0 94.6

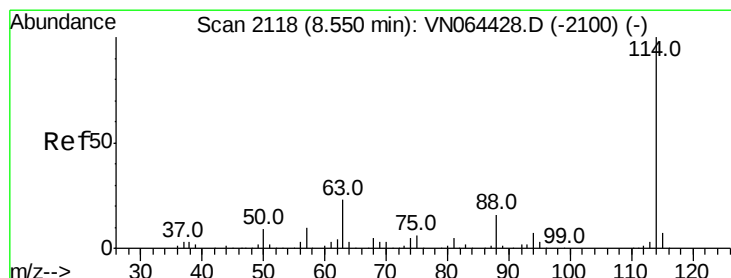
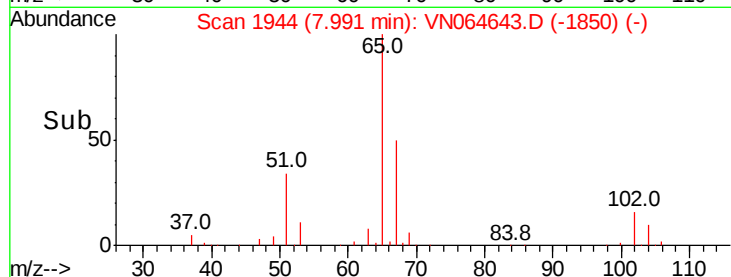
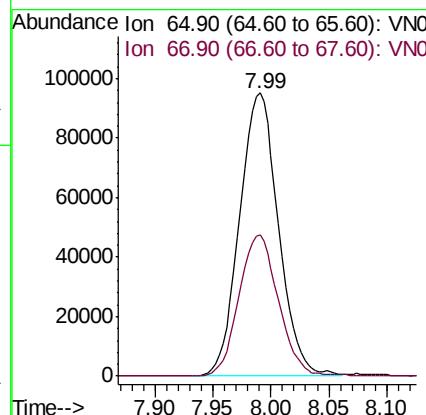
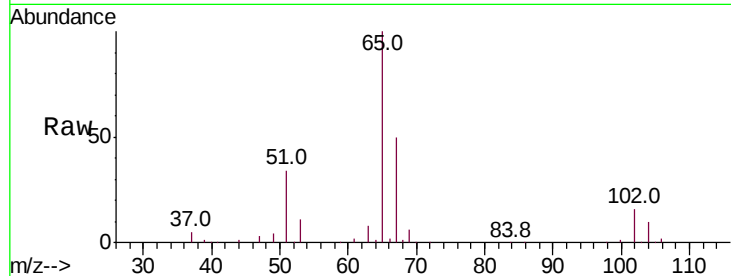




#33  
 1,2-Dichloroethane-d4  
 Concen: 59.269 ug/l  
 RT: 7.99 min Scan# 1944  
 Delta R.T. 0.00 min  
 Lab File: VN064643.D  
 Acq: 13 Nov 2020 20:22

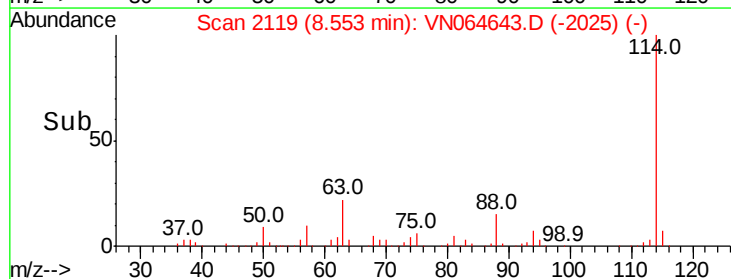
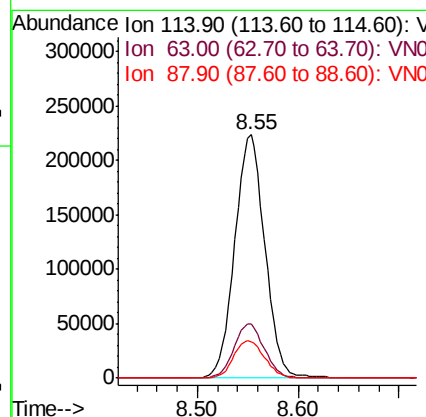
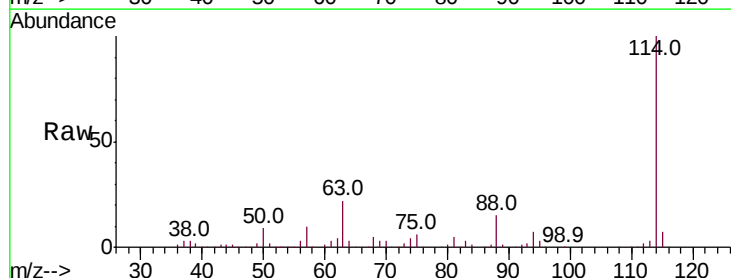
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 TP-3-S

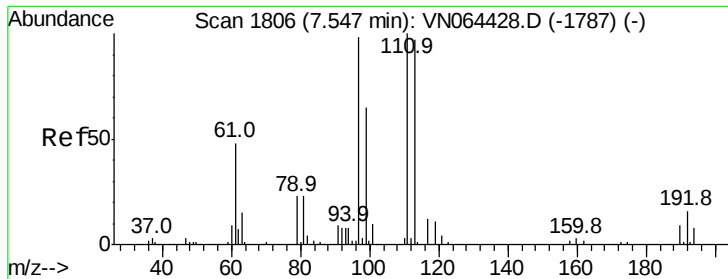
Tot Ion: 65 Resp: 222391  
 Ion Ratio Lower Upper  
 65 100  
 67 50.4 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN064643.D  
 Acq: 13 Nov 2020 20:22

Tgt Ion: 114 Resp: 464450  
 Ion Ratio Lower Upper  
 114 100  
 63 22.2 0.0 45.6  
 88 15.1 0.0 32.8

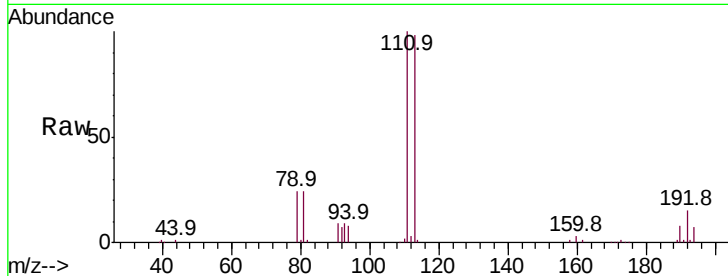




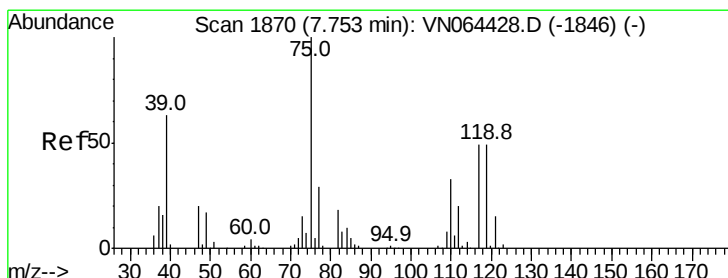
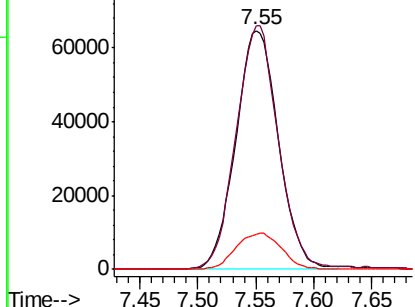
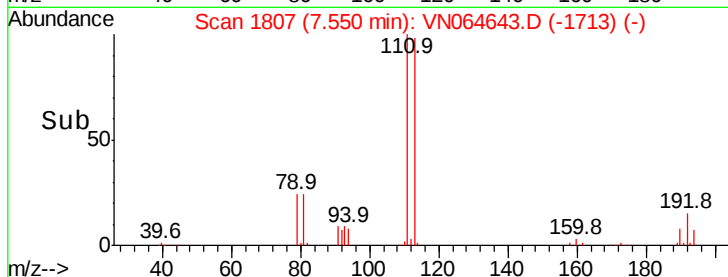
#35  
 Dibromofluoromethane  
 Concen: 52.522 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN064643.D  
 Acq: 13 Nov 2020 20:22

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-3-S

Tot Ion:113 Resp: 166087  
 Ion Ratio Lower Upper  
 113 100  
 111 100.6 81.1 121.7  
 192 16.1 12.8 19.2

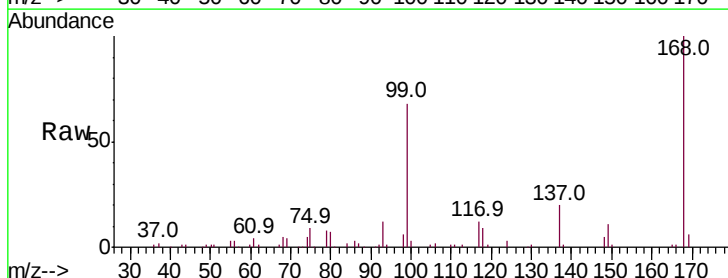


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

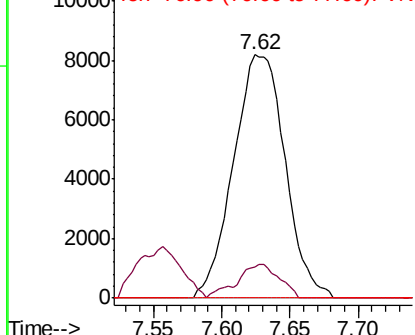
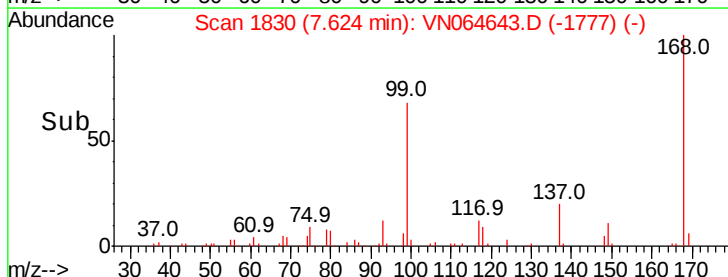


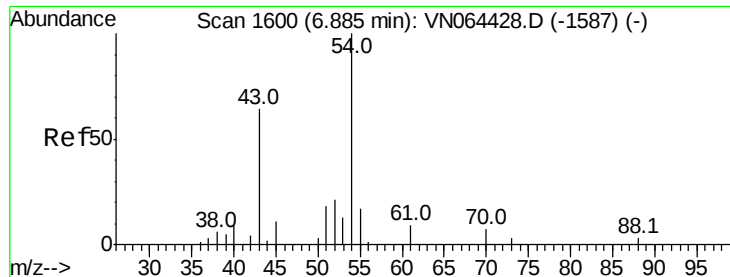
#36  
 1,1-Dichloropropene  
 Concen: 4.384 ug/l  
 RT: 7.62 min Scan# 1830  
 Delta R.T. -0.13 min  
 Lab File: VN064643.D  
 Acq: 13 Nov 2020 20:22

Tgt Ion: 75 Resp: 21511  
 Ion Ratio Lower Upper  
 75 100  
 110 11.3 16.0 48.0#  
 77 0.0 24.0 36.0#



Abundance Ion 74.90 (74.60 to 75.60): V  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): V

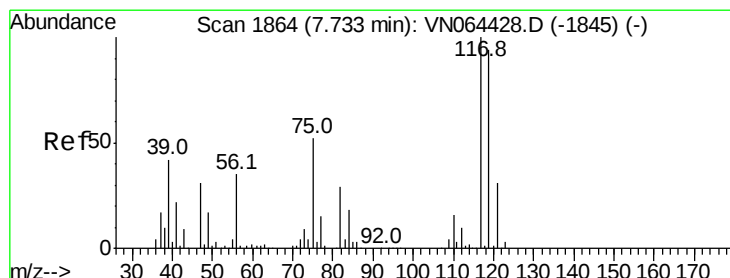
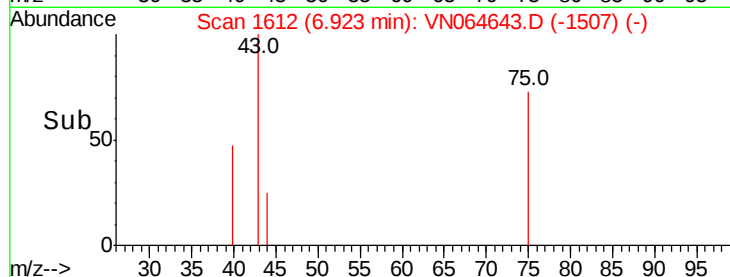
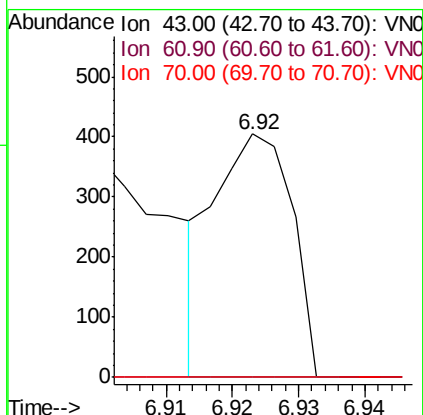
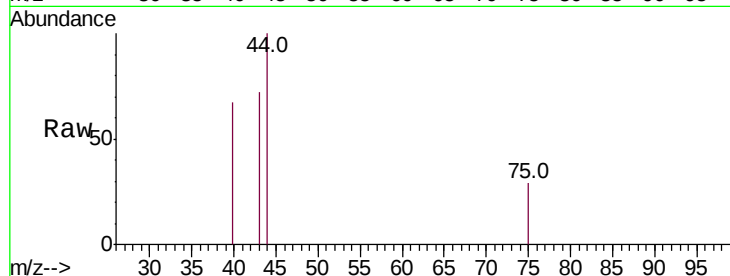




#37  
Ethyl Acetate  
Concen: 0.827 ug/l  
RT: 6.92 min Scan# 1612  
Delta R.T. 0.04 min  
Lab File: VN064643.D  
Acq: 13 Nov 2020 20:22

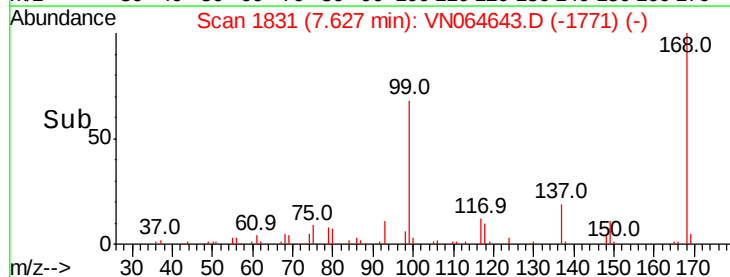
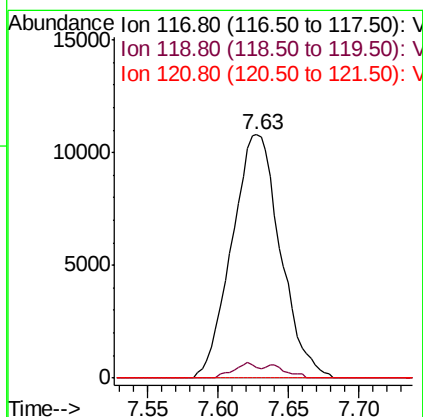
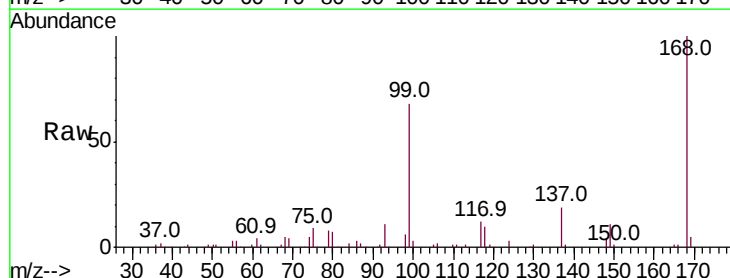
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-3-S

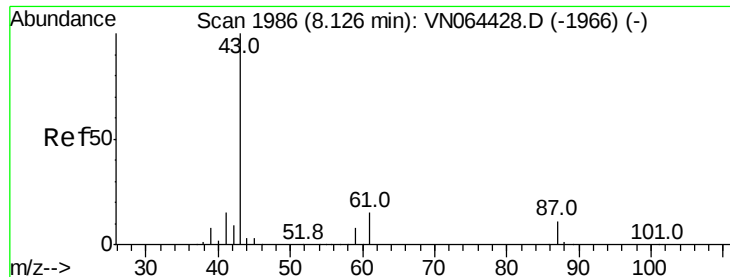
Tot Ion: 43 Resp: 325  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.0 15.0#  
70 0.0 7.1 10.7#



#38  
Carbon Tetrachloride  
Concen: 4.951 ug/l  
RT: 7.63 min Scan# 1831  
Delta R.T. -0.11 min  
Lab File: VN064643.D  
Acq: 13 Nov 2020 20:22

Tgt Ion: 117 Resp: 25962  
Ion Ratio Lower Upper  
117 100  
119 4.2 75.5 113.3#  
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 10.536 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Instrument :

MSVOA\_N

ClientSampleId :

TP-3-S

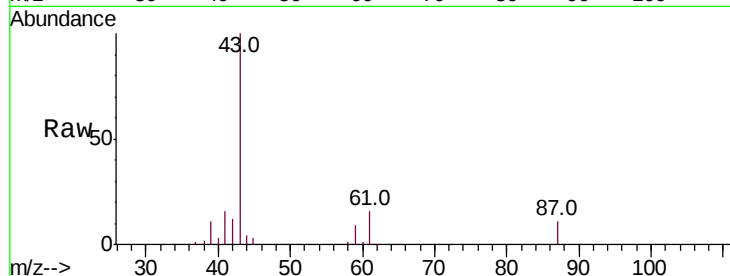
Tot Ion: 43 Resp: 83774

Ion Ratio Lower Upper

43 100

61 17.1 14.0 21.0

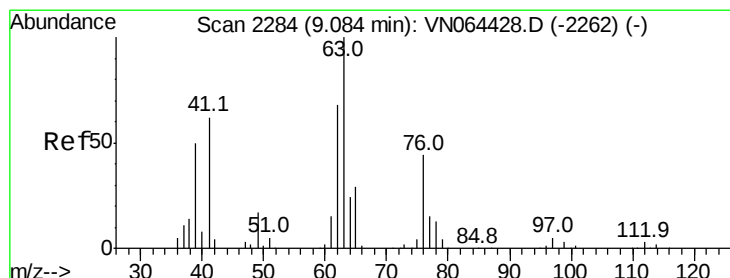
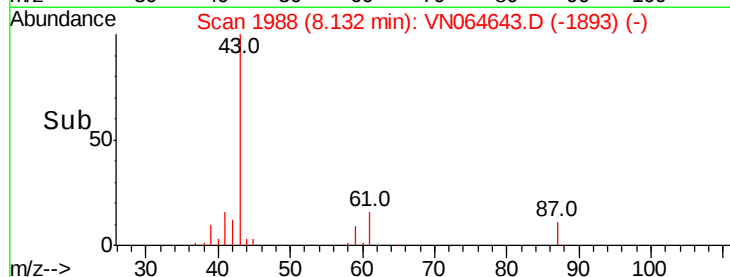
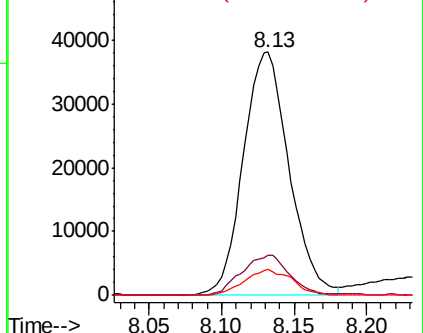
87 11.0 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.425 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064643.D

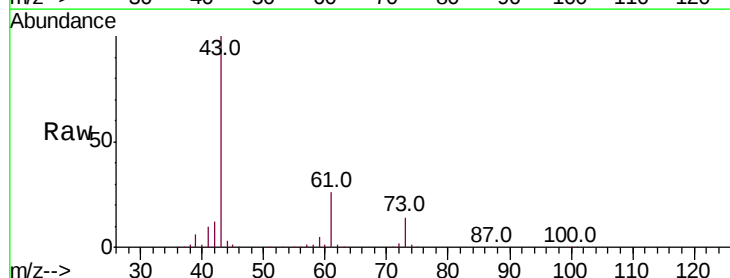
Acq: 13 Nov 2020 20:22

Tgt Ion: 63 Resp: 1634

Ion Ratio Lower Upper

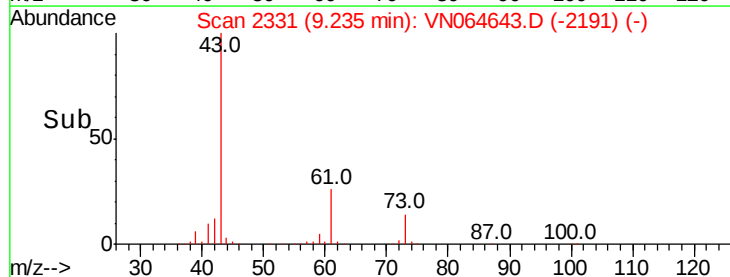
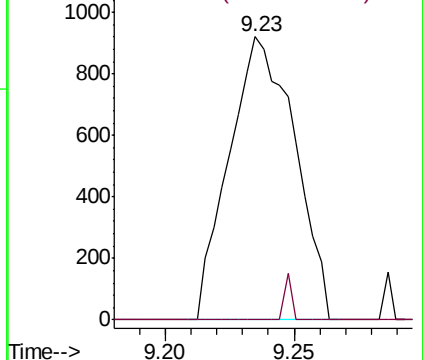
63 100

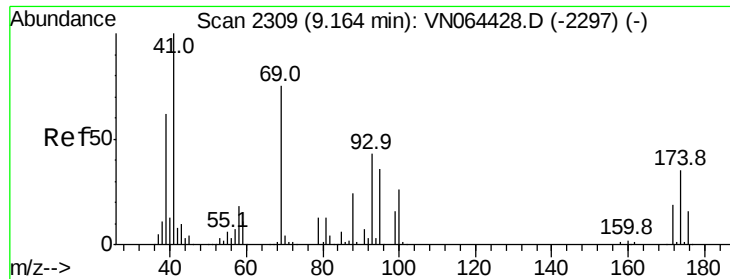
65 0.0 23.6 35.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

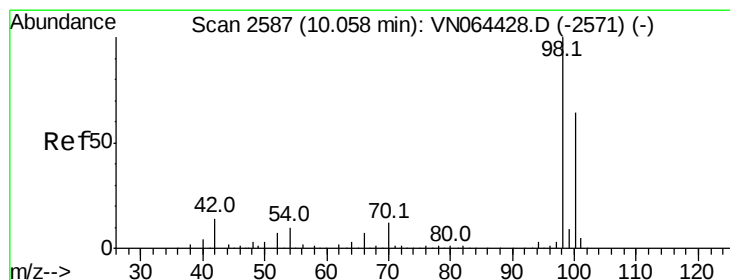
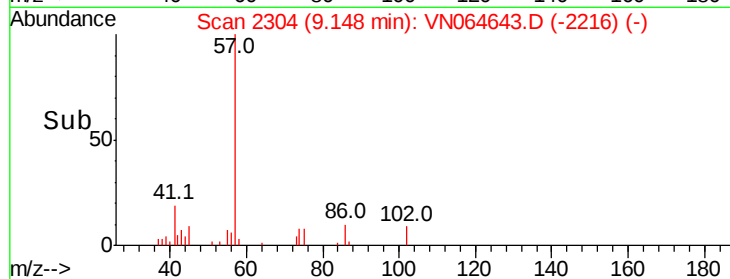
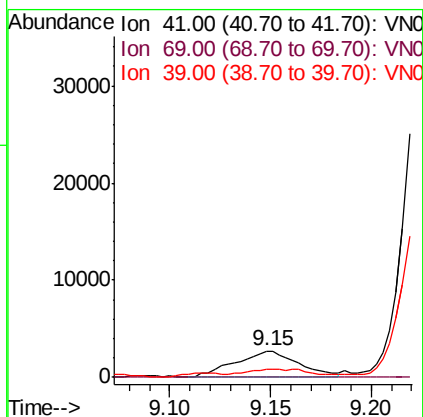
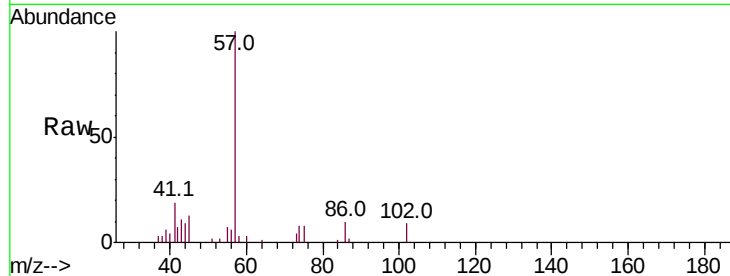




#48  
Methvl methacrylate  
Concen: 1.483 ug/l  
RT: 9.15 min Scan# 2304  
Delta R.T. -0.02 min  
Lab File: VN064643.D  
Acq: 13 Nov 2020 20:22

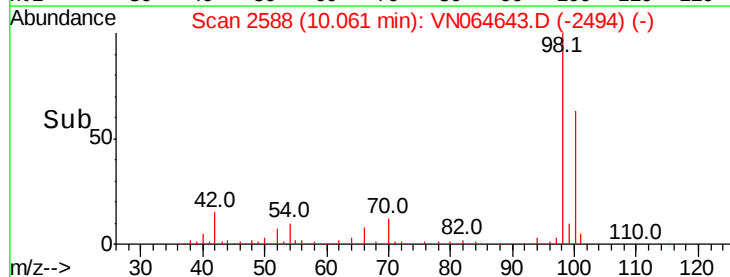
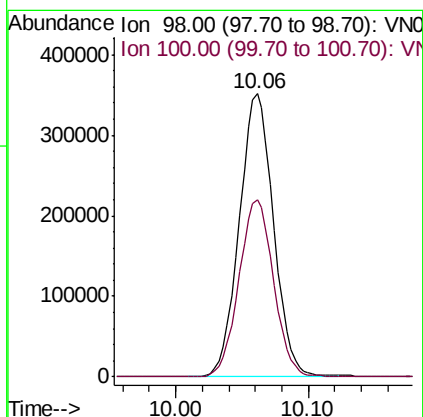
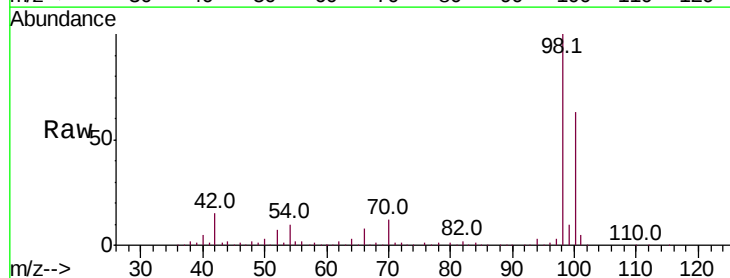
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-3-S

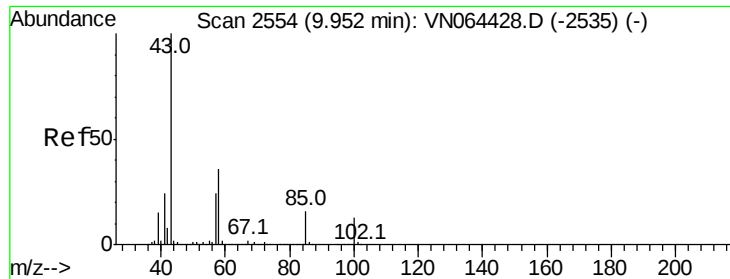
Tot Ion: 41 Resp: 5950  
Ion Ratio Lower Upper  
41 100  
69 0.0 60.4 90.6#  
39 0.0 51.2 76.8#



#50  
Toluene-d8  
Concen: 51.566 ug/l  
RT: 10.06 min Scan# 2588  
Delta R.T. 0.00 min  
Lab File: VN064643.D  
Acq: 13 Nov 2020 20:22

Tgt Ion: 98 Resp: 630255  
Ion Ratio Lower Upper  
98 100  
100 63.3 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 1.714 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Instrument :

MSVOA\_N

ClientSampled :

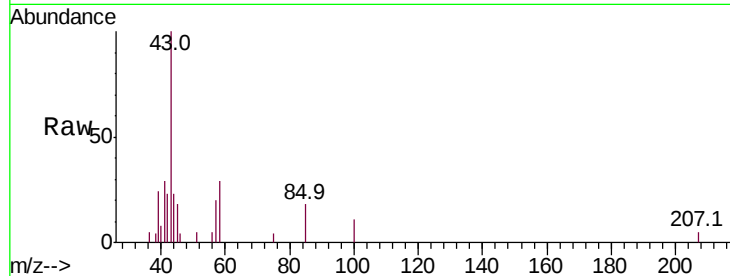
TP-3-S

Tot Ion: 43 Resp: 7947

Ion Ratio Lower Upper

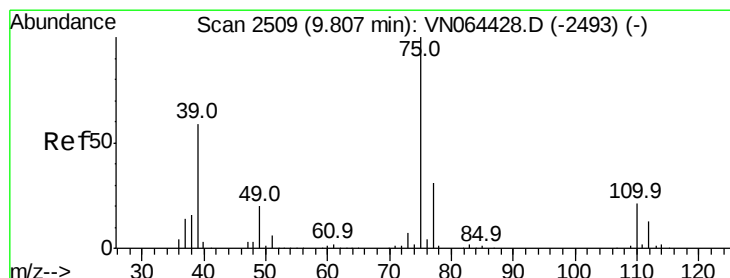
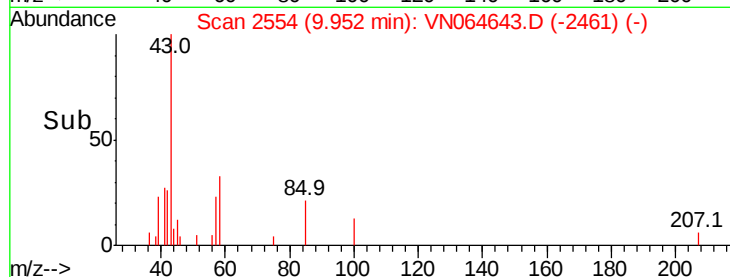
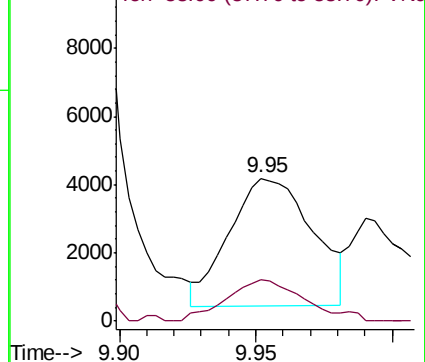
43 100

58 30.2 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.162 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

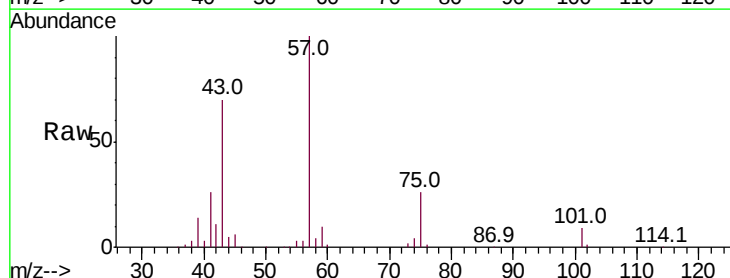
Tgt Ion: 75 Resp: 31861

Ion Ratio Lower Upper

75 100

77 0.0 24.9 37.3#

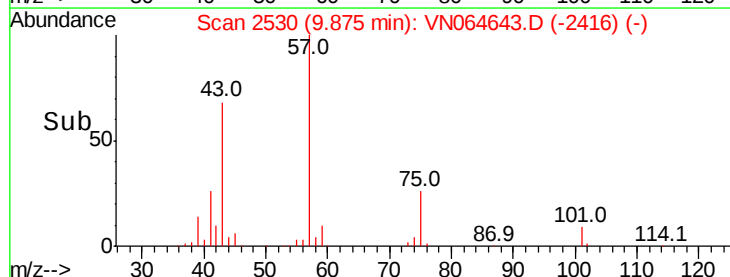
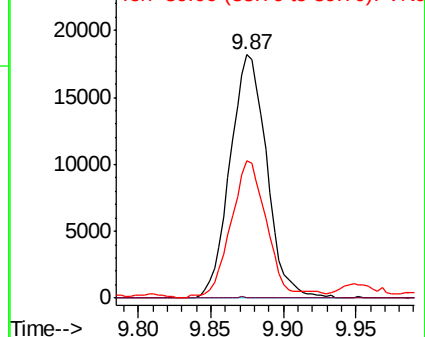
39 55.4 47.1 70.7

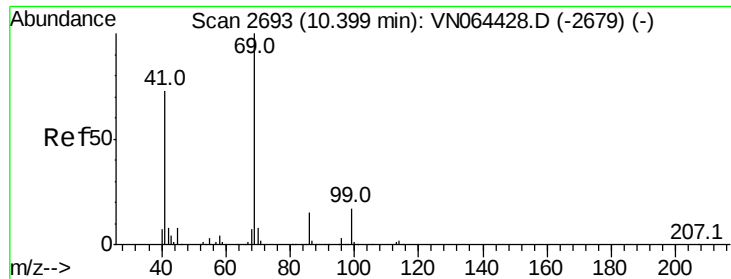


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 2.424 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Instrument :

MSVOA\_N

ClientSampled :

TP-3-S

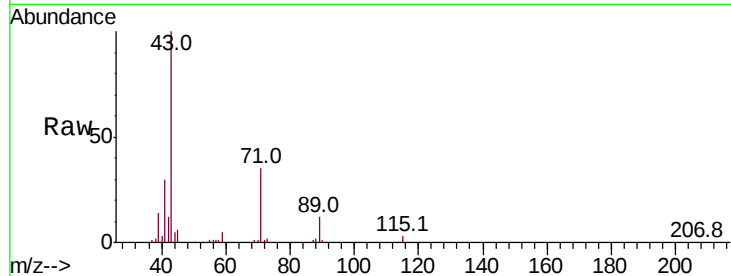
Tot Ion: 69 Resp: 3413

Ion Ratio Lower Upper

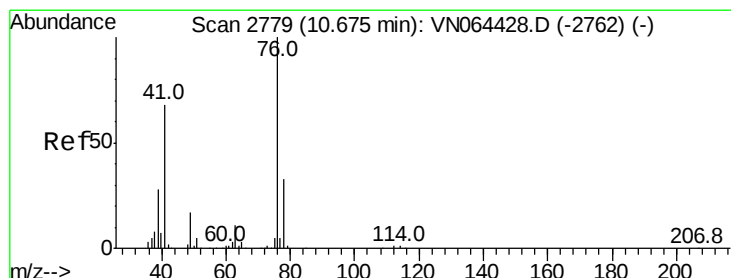
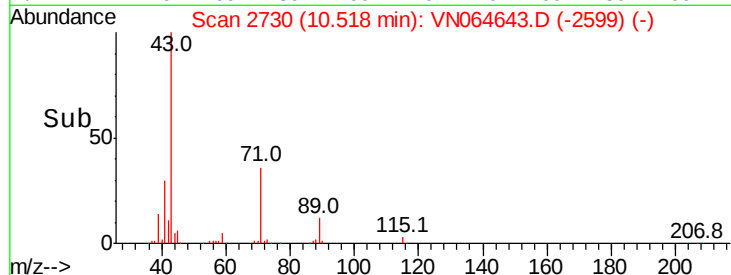
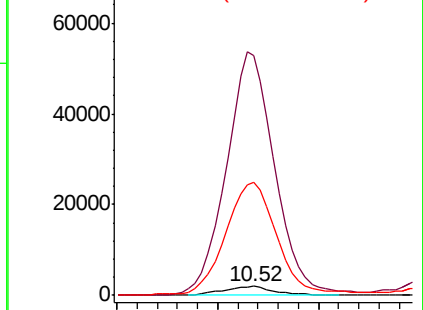
69 100

41 2640.3 59.3 88.9#

39 1272.6 35.4 53.0#



Abundance Ion 69.00 (68.70 to 69.70): VNO  
Ion 41.00 (40.70 to 41.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.003 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064643.D

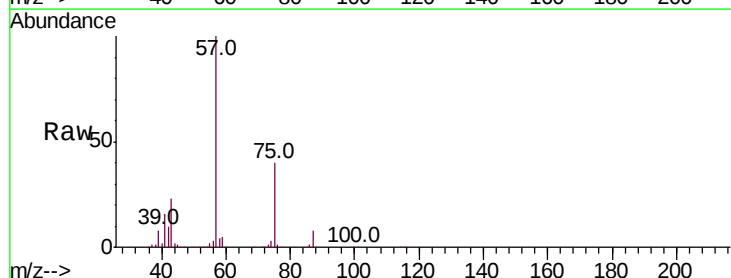
Acq: 13 Nov 2020 20:22

Tgt Ion: 76 Resp: 6004

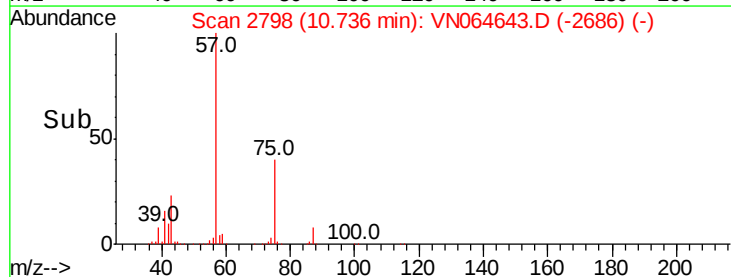
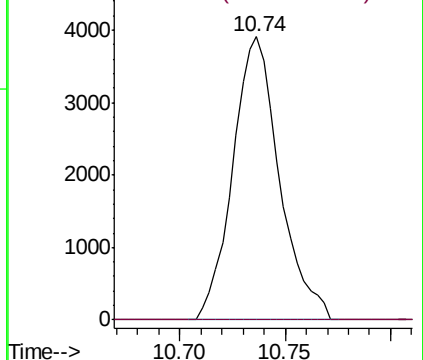
Ion Ratio Lower Upper

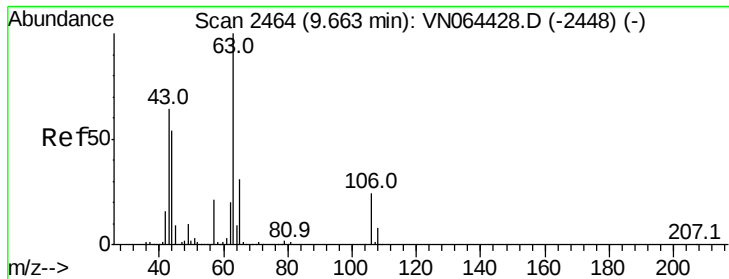
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VNO  
Ion 77.90 (77.60 to 78.60): VNO





#58

2-Chloroethyl Vinyl ether

Concen: 21.566 ug/l

RT: 9.43 min Scan# 2393

Delta R.T. -0.23 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Instrument :

MSVOA\_N

ClientSampleId :

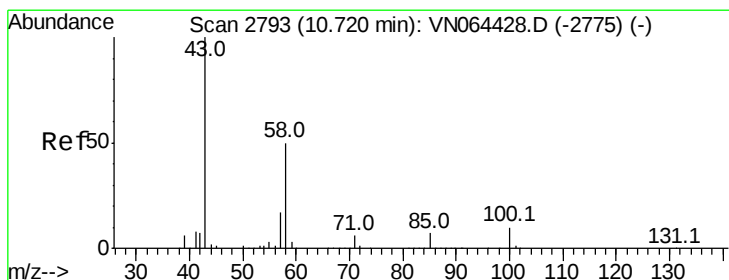
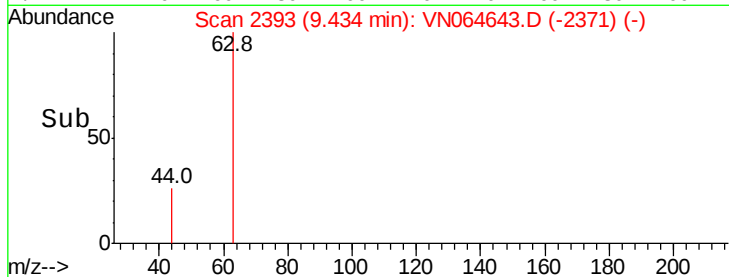
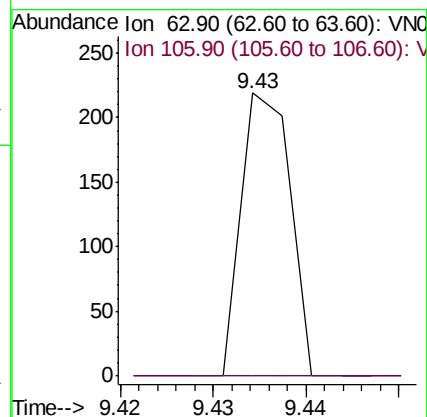
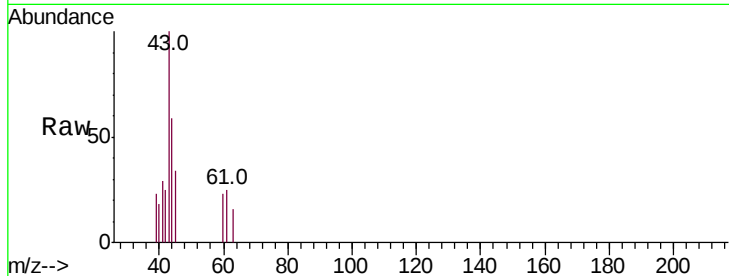
TP-3-S

Tot Ion: 63 Resp: 81

Ion Ratio Lower Upper

63 100

106 0.0 19.5 29.3#



#59

2-Hexanone

Concen: 30.227 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064643.D

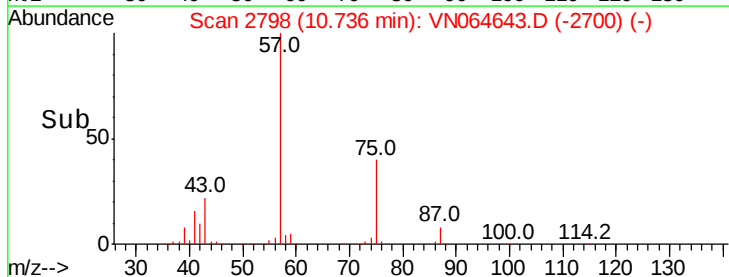
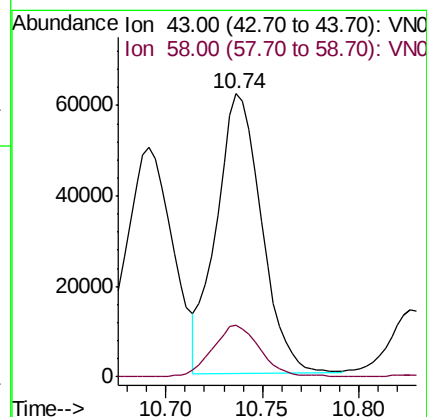
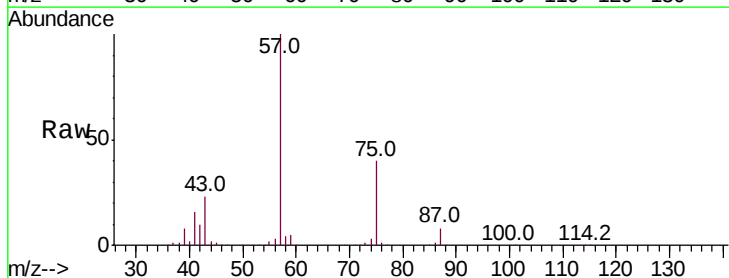
Acq: 13 Nov 2020 20:22

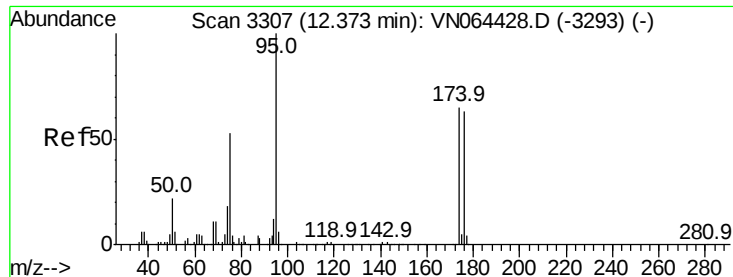
Tgt Ion: 43 Resp: 100686

Ion Ratio Lower Upper

43 100

58 19.6 24.7 74.1#

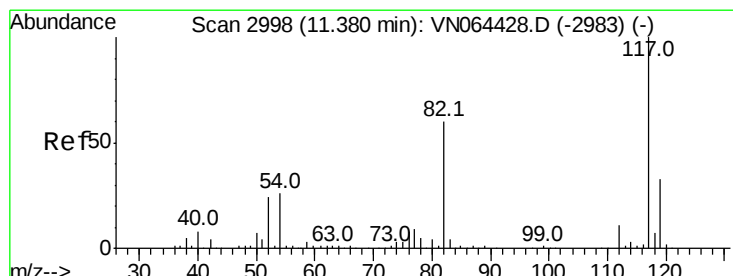
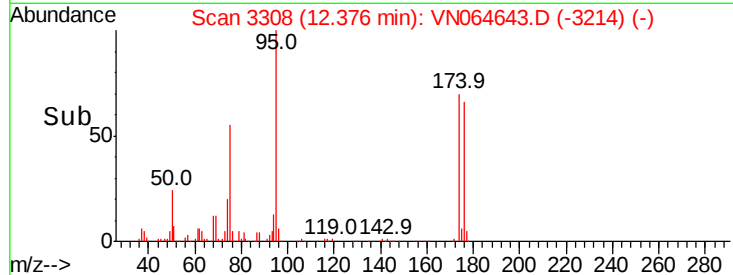
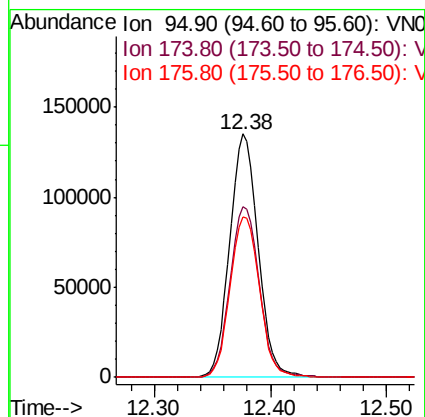
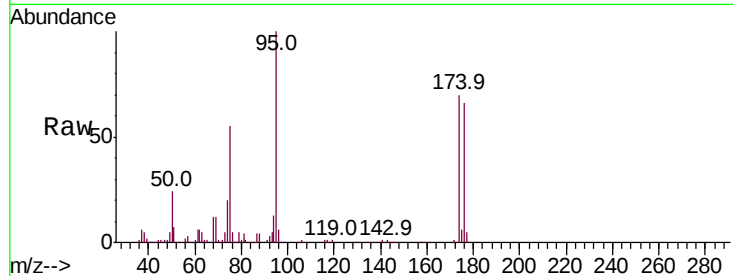




#62  
4-Bromofluorobenzene  
Concen: 49.500 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. 0.00 min  
Lab File: VN064643.D  
Acq: 13 Nov 2020 20:22

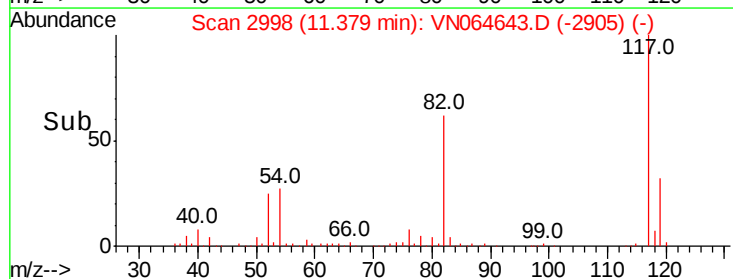
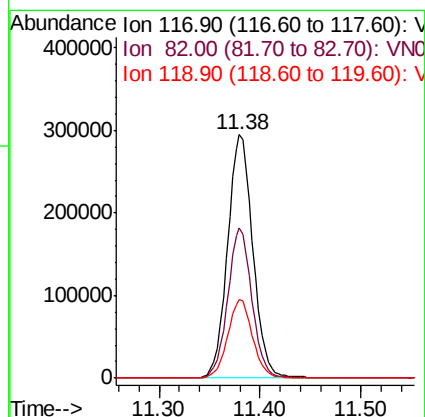
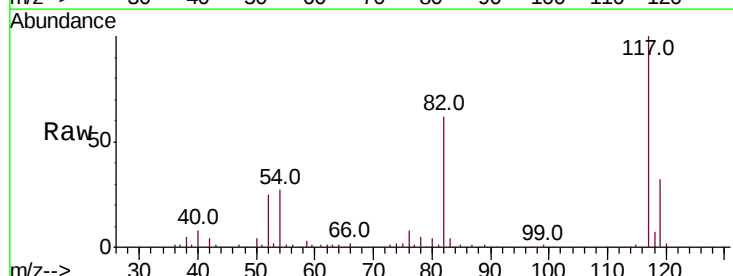
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-3-S

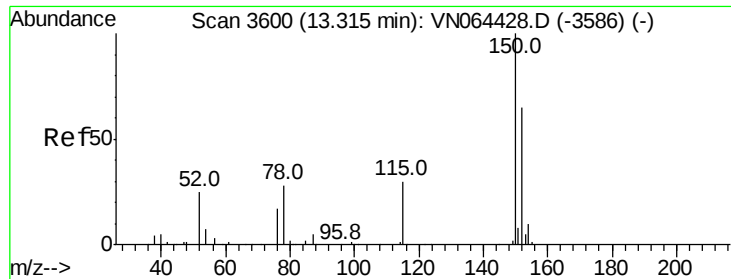
Tot Ion: 95 Resp: 228801  
Ion Ratio Lower Upper  
95 100  
174 72.3 0.0 132.6  
176 68.0 0.0 129.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. -0.00 min  
Lab File: VN064643.D  
Acq: 13 Nov 2020 20:22

Tgt Ion: 117 Resp: 516869  
Ion Ratio Lower Upper  
117 100  
82 61.5 48.1 72.1  
119 32.3 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Instrument :

MSVOA\_N

ClientSampled :

TP-3-S

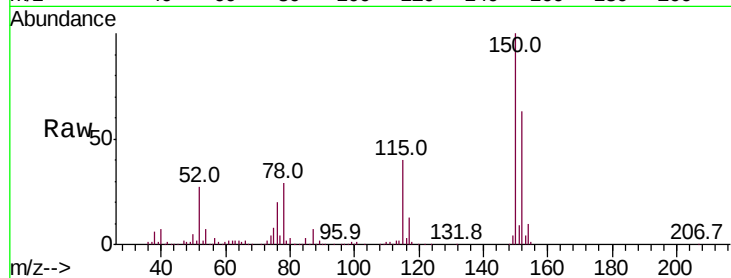
Tot Ion:152 Resp: 182118

Ion Ratio Lower Upper

152 100

115 64.8 32.0 96.0

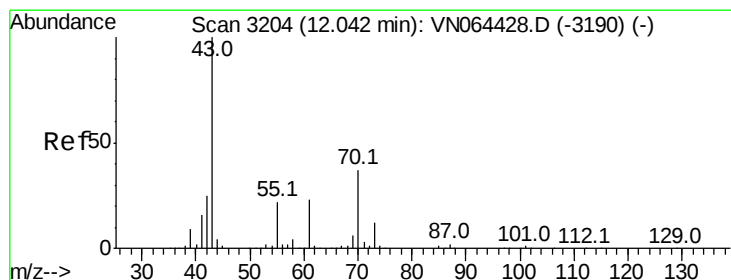
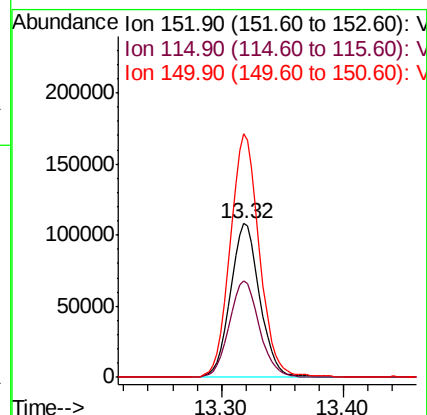
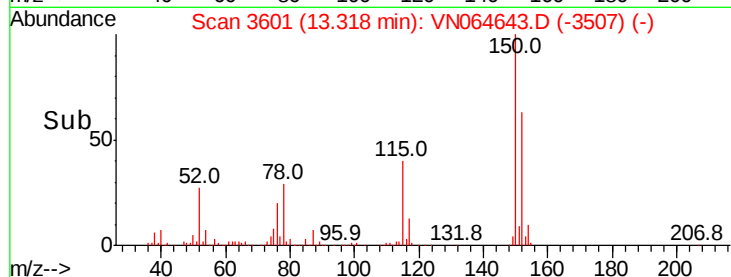
150 157.3 0.0 353.8



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



#74

N-ethyl acetate

Concen: 1.703 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Tgt Ion: 43 Resp: 3513

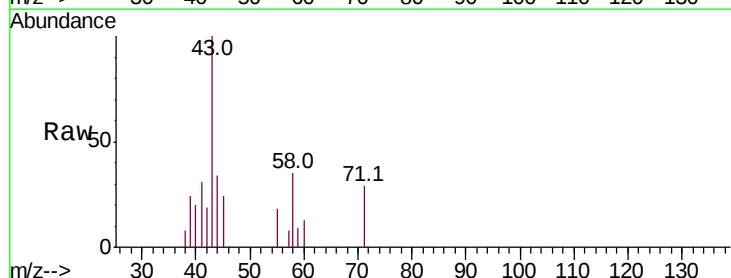
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 11.4 18.4 27.6#

61 0.0 17.8 26.6#

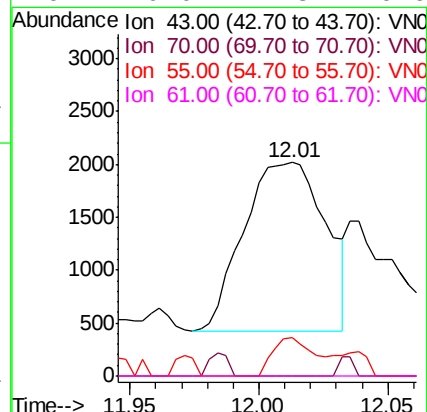
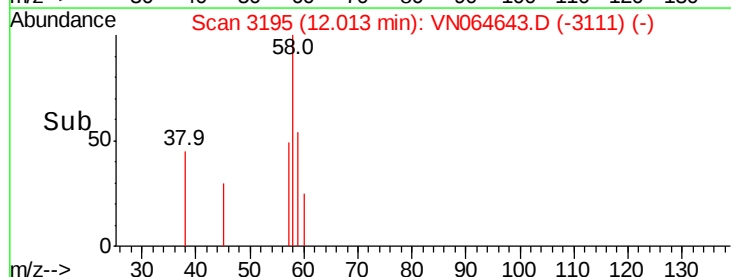


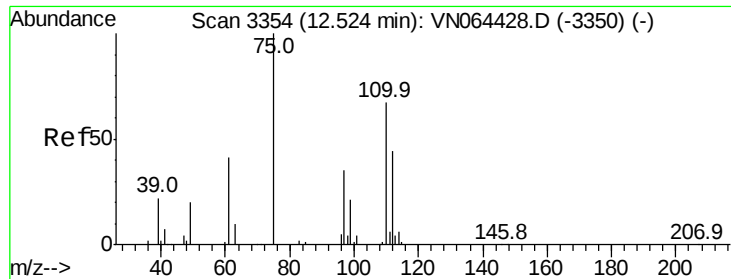
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.629 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Instrument :

MSVOA\_N

ClientSampleId :

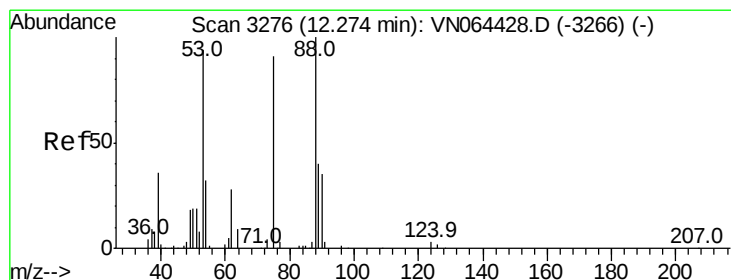
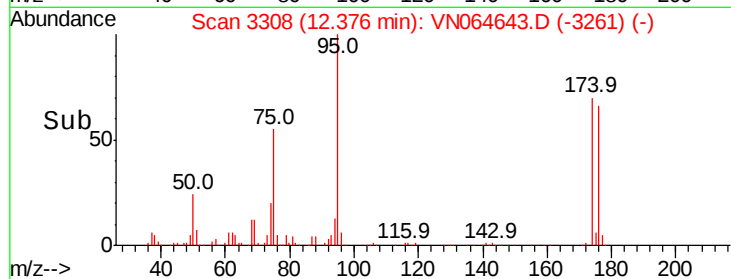
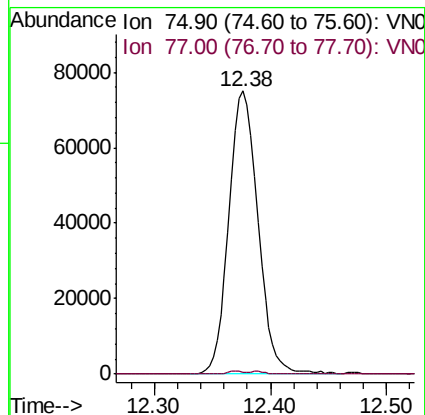
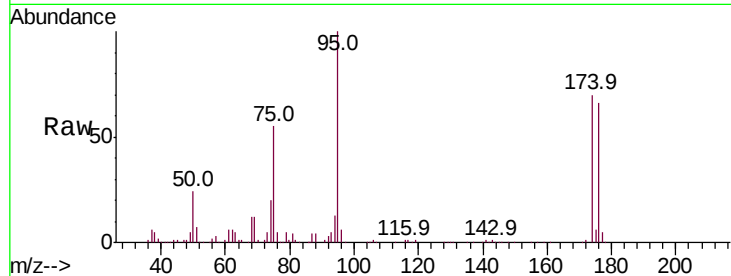
TP-3-S

Tot Ion: 75 Resp: 130740

Ion Ratio Lower Upper

75 100

77 0.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.728 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064643.D

Acq: 13 Nov 2020 20:22

Tgt Ion: 75 Resp: 130740

Ion Ratio Lower Upper

75 100

53 0.3 84.0 126.0#

89 0.0 36.3 54.5#

