

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111920\  
 Data File : VN064745.D  
 Acq On : 19 Nov 2020 20:02  
 Operator : JC/MD  
 Sample : L4783-15  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-6D

Quant Time: Nov 20 03:54:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 18 15:29:54 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 203001   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 464441   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 597233   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 182421   | 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   | 209646   | 58.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.42% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 140362   | 53.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.20% |          |
| 50) Toluene-d8              | 10.06 | 98   | 549254   | 45.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.44%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 217253   | 48.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.76%  |          |

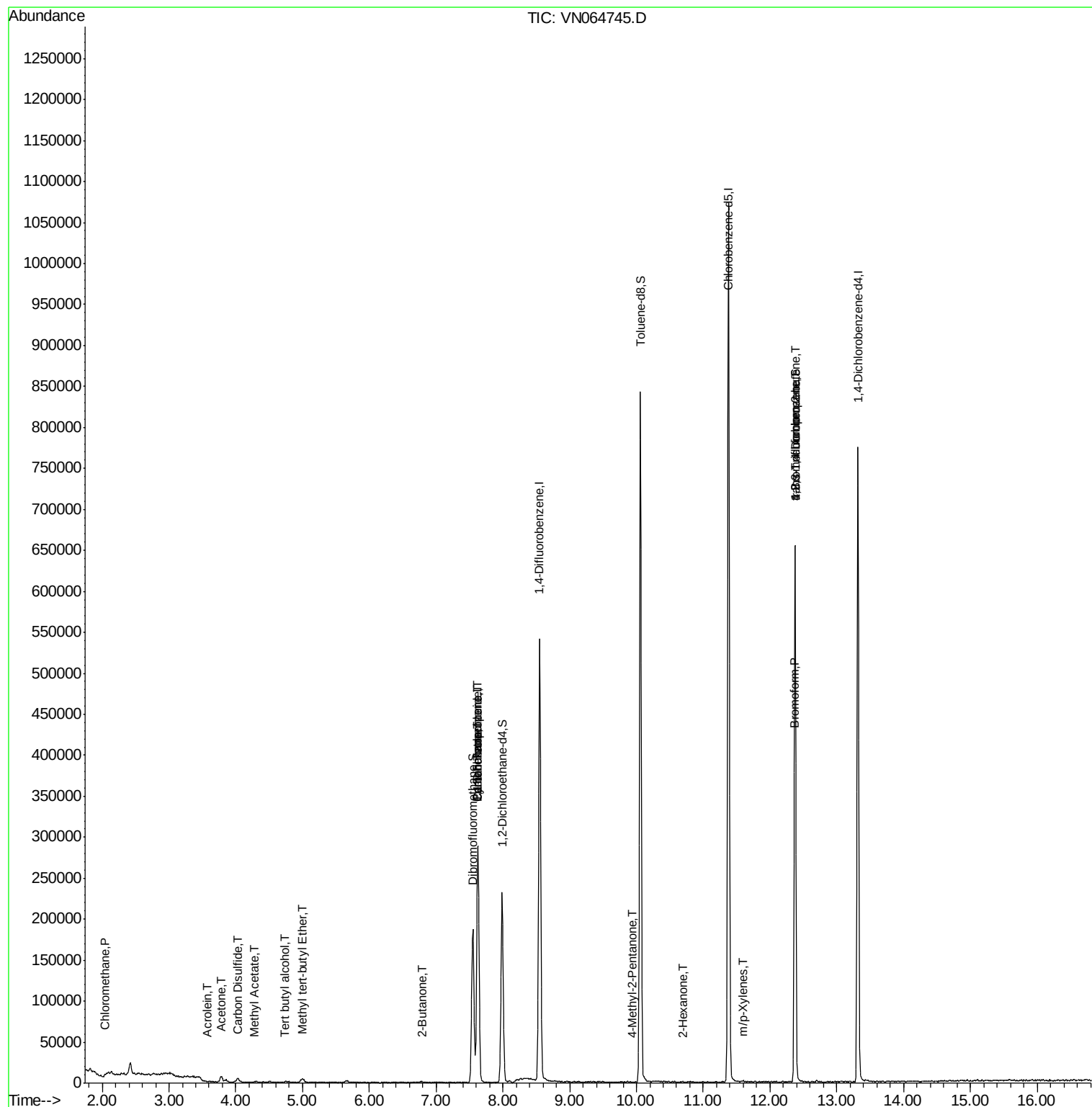
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 829      | 0.296  | ug/l # | 79     |
| 11) Tert butyl alcohol         | 4.72  | 59   | 441      | 1.273  | ug/l # | 70     |
| 13) Acrolein                   | 3.58  | 56   | 71       | 0.875  | ug/l # | 11     |
| 16) Acetone                    | 3.78  | 43   | 12714    | 19.481 | ug/l   | 97     |
| 17) Carbon Disulfide           | 4.02  | 76   | 1378     | 0.348  | ug/l # | 75     |
| 18) Methyl Acetate             | 4.27  | 43   | 193      | 1.406  | ug/l # | 54     |
| 19) Methyl tert-butyl Ether    | 4.99  | 73   | 6589     | 0.902  | ug/l   | 93     |
| 25) 2-Butanone                 | 6.80  | 43   | 494      | 0.362  | ug/l # | 51     |
| 31) Cyclohexane                | 7.62  | 56   | 6119     | 1.585  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 20695    | 4.331  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 25621    | 5.045  | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 217      | 6.175  | ug/l # | 39     |
| 59) 2-Hexanone                 | 10.71 | 43   | 143      | 8.480  | ug/l # | 28     |
| 68) m/p-Xylenes                | 11.60 | 106  | 303      | 4.094  | ug/l # | 30     |
| 71) Bromoform                  | 12.35 | 173  | 91       | 2.470  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.37 | 75   | 125625   | 31.961 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.37 | 75   | 125625   | 81.375 | ug/l # | 5      |

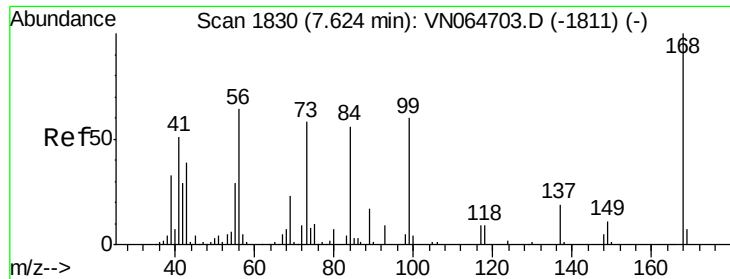
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N111820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 18 15:29:54 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: VN064745.D

Acq: 19 Nov 2020 20:02

Instrument :

MSVOA\_N

ClientSampleId :

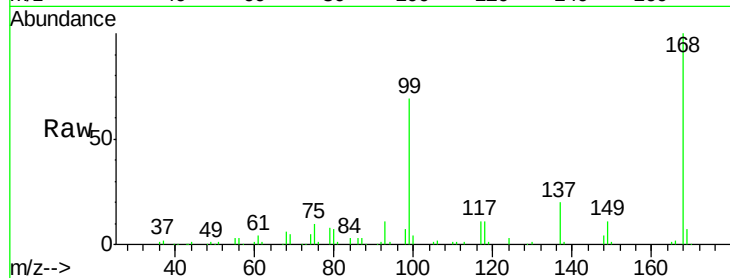
MW-6D

Tot Ion:168 Resp: 203001

Ion Ratio Lower Upper

168 100

99 69.3 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.62

80000

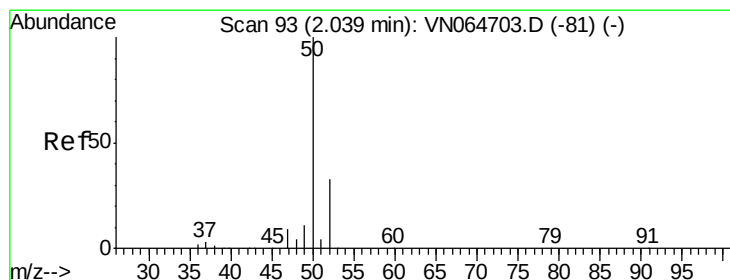
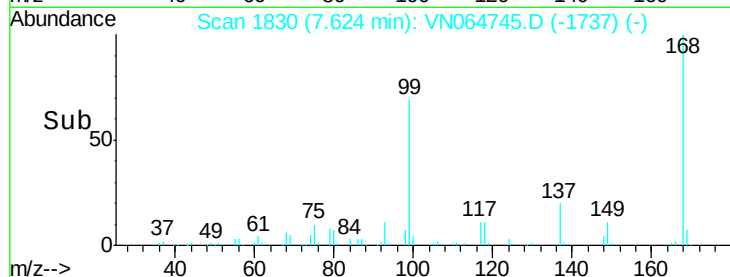
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.296 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.00 min

Lab File: VN064745.D

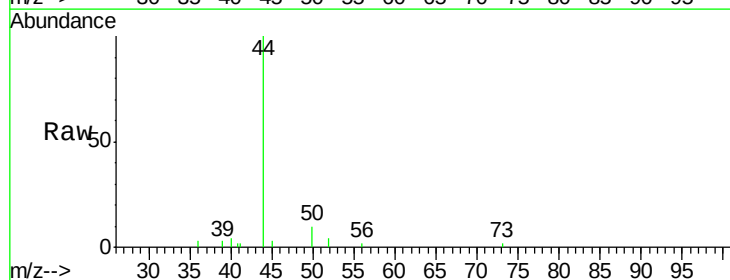
Acq: 19 Nov 2020 20:02

Tgt Ion: 50 Resp: 829

Ion Ratio Lower Upper

50 100

52 44.7 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

800

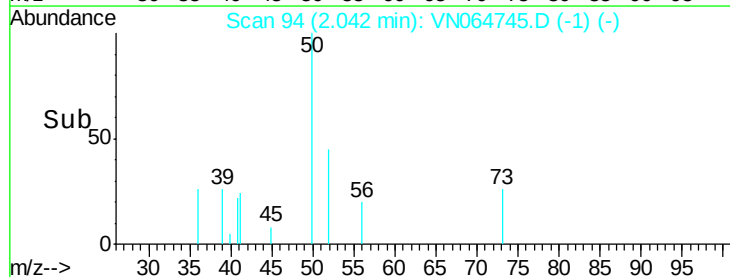
600

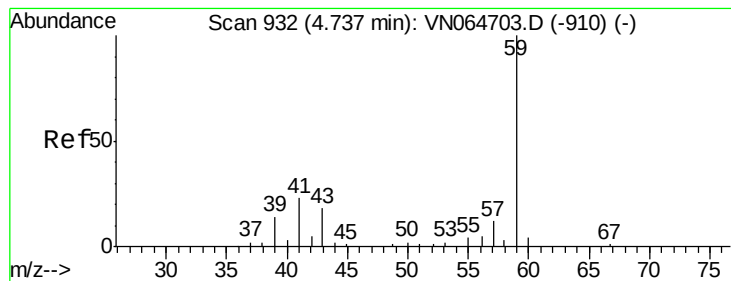
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 1.273 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.01 min

Lab File: VN064745.D

Acq: 19 Nov 2020 20:02

Instrument :

MSVOA\_N

ClientSampled :

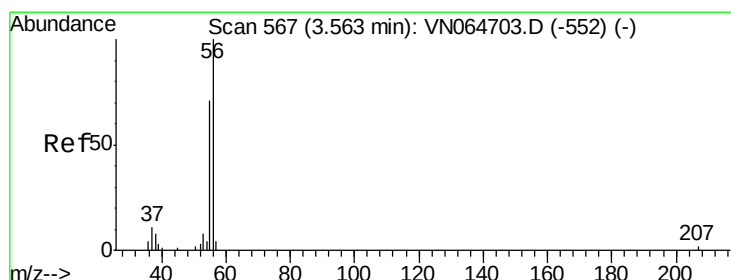
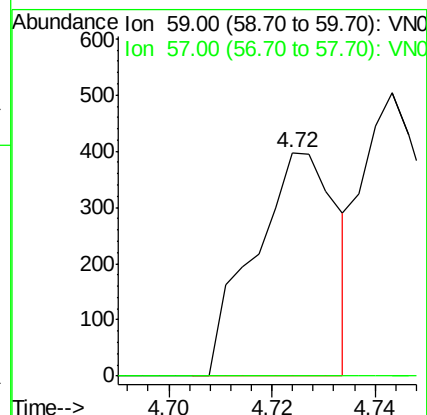
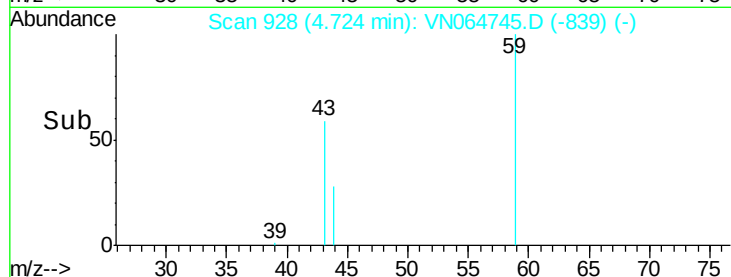
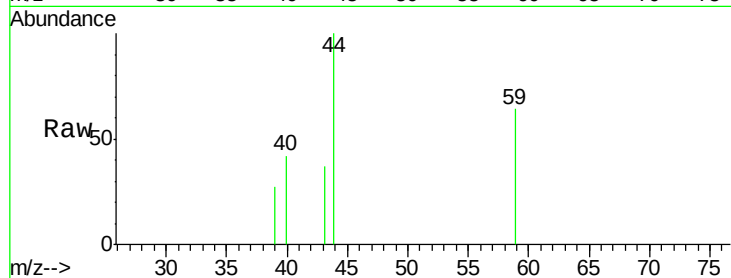
MW-6D

Tot Ion: 59 Resp: 441

Ion Ratio Lower Upper

59 100

57 0.0 9.1 13.7#



#13

Acrolein

Concen: 0.875 ug/l

RT: 3.58 min Scan# 572

Delta R.T. 0.02 min

Lab File: VN064745.D

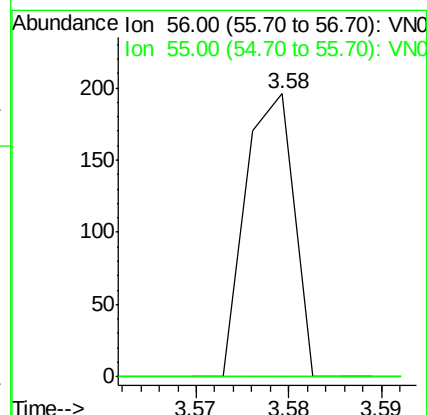
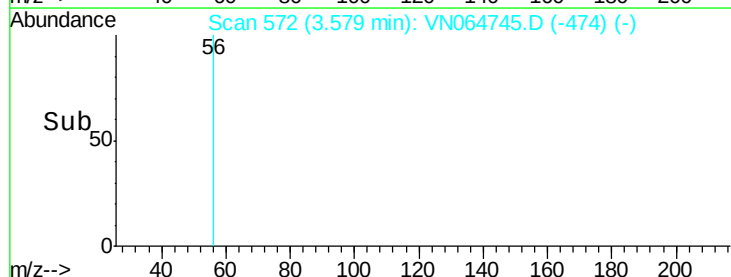
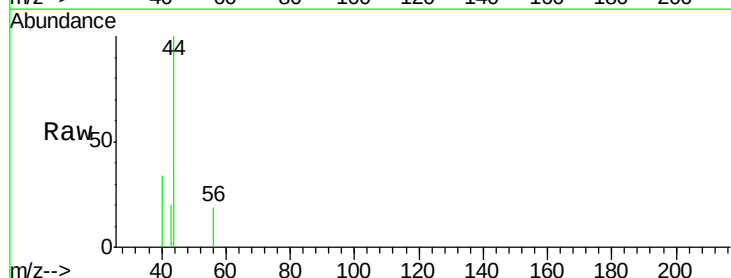
Acq: 19 Nov 2020 20:02

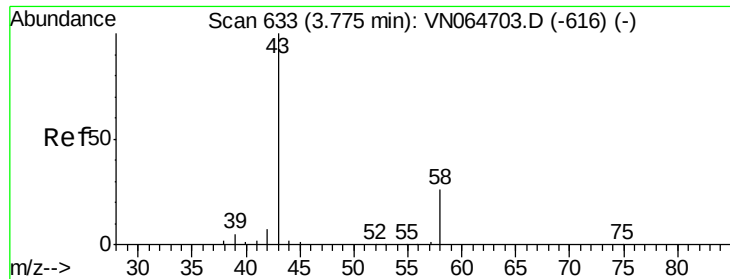
Tgt Ion: 56 Resp: 71

Ion Ratio Lower Upper

56 100

55 0.0 61.8 92.6#





#16

Acetone

Concen: 19.481 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064745.D

Acq: 19 Nov 2020 20:02

Instrument :

MSVOA\_N

ClientSampleId :

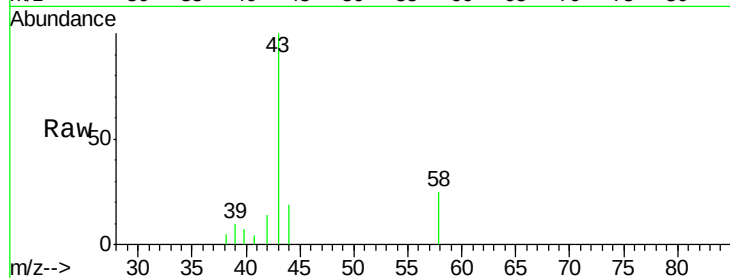
MW-6D

Tot Ion: 43 Resp: 12714

Ion Ratio Lower Upper

43 100

58 24.8 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VN064703.D (-616) (-)

Ion 58.00 (57.70 to 58.70): VN064703.D (-616) (-)

3.78

4000

3000

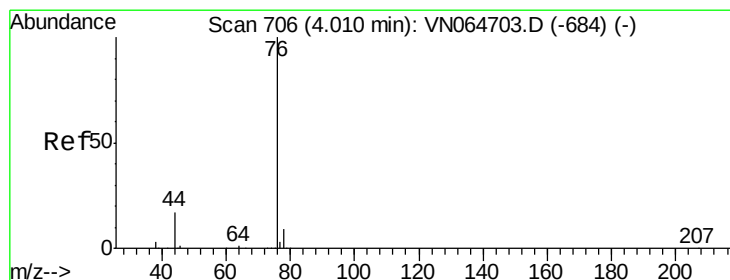
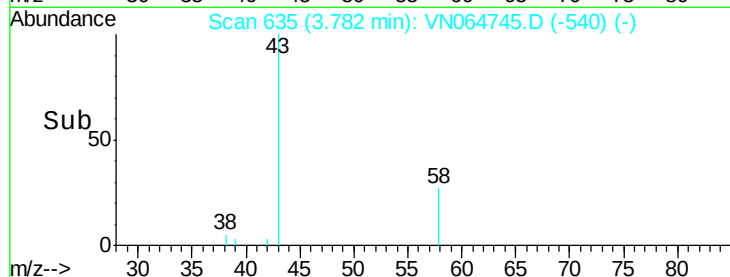
2000

1000

0

3.70 3.75 3.80 3.85

Time-->



#17

Carbon Disulfide

Concen: 0.348 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.01 min

Lab File: VN064745.D

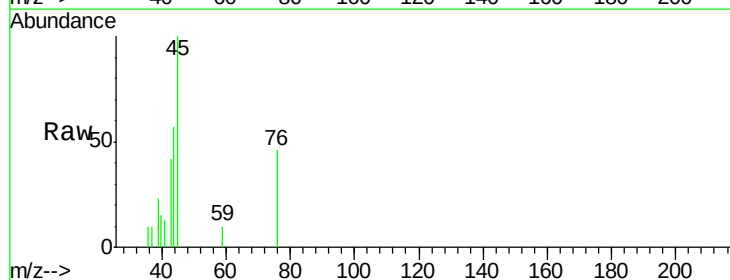
Acq: 19 Nov 2020 20:02

Tgt Ion: 76 Resp: 1378

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN064703.D (-684) (-)

Ion 77.90 (77.60 to 78.60): VN064703.D (-684) (-)

4.02

800

600

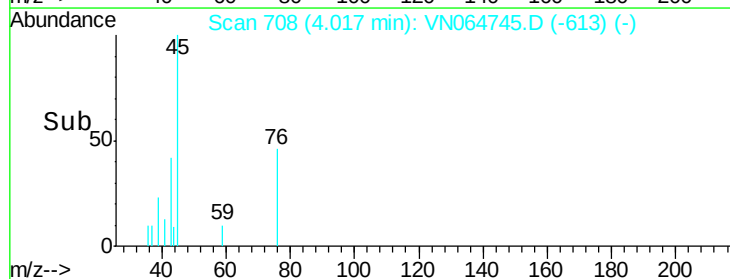
400

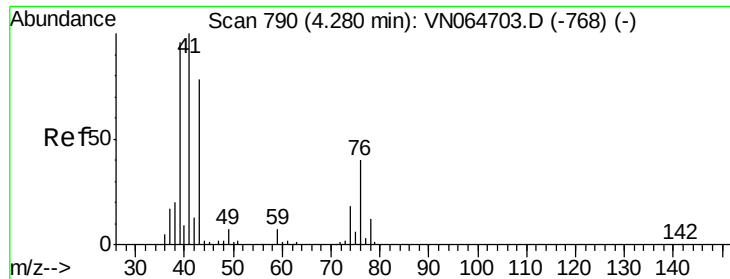
200

0

4.00 4.05

Time-->

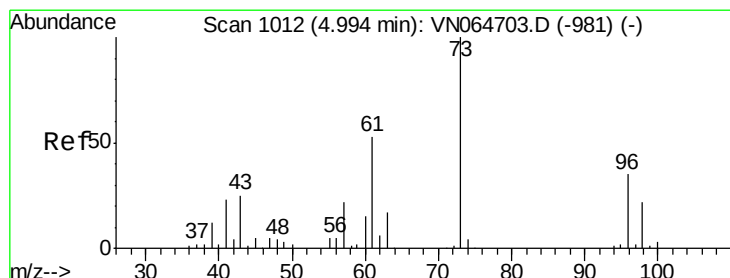
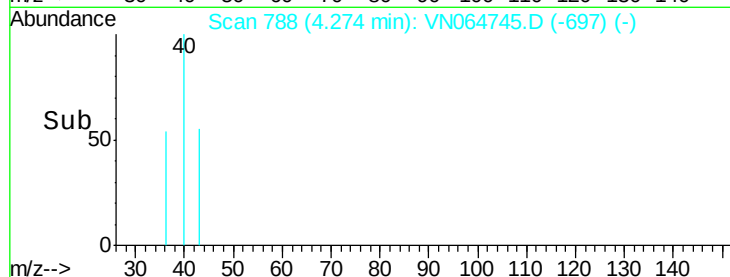
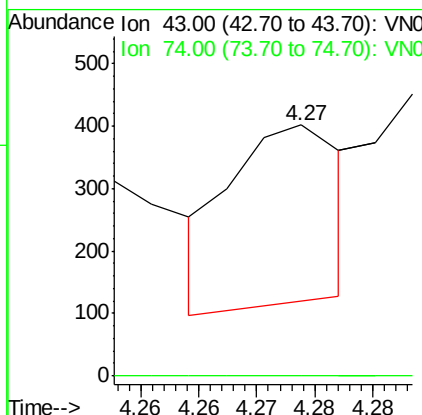
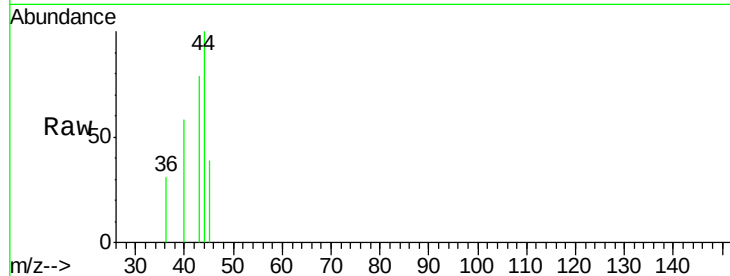




#18  
Methyl Acetate  
Concen: 1.406 ug/l  
RT: 4.27 min Scan# 788  
Delta R.T. -0.01 min  
Lab File: VN064745.D  
Acq: 19 Nov 2020 20:02

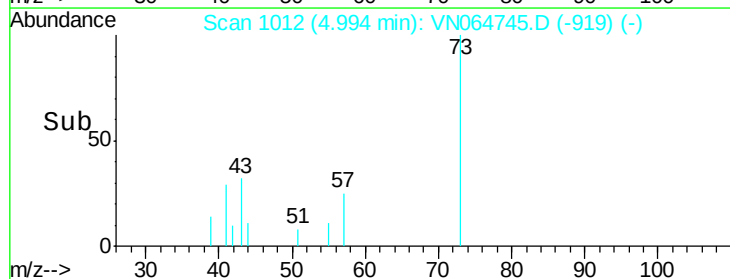
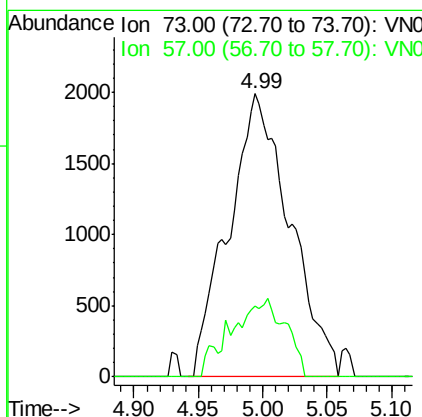
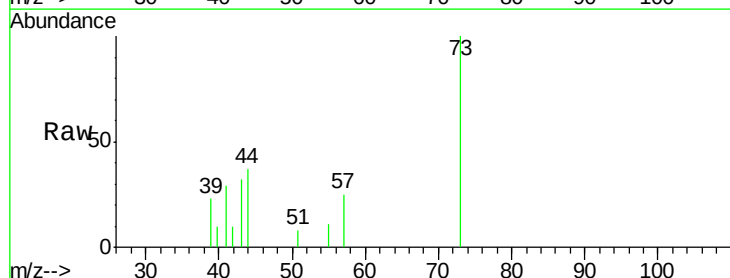
Instrument :  
MSVOA\_N  
ClientSampled :  
MW-6D

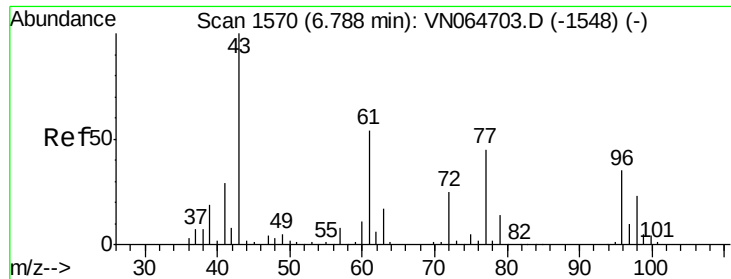
Tot Ion: 43 Resp: 193  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.6 26.4#



#19  
Methyl tert-butyl Ether  
Concen: 0.902 ug/l  
RT: 4.99 min Scan# 1012  
Delta R.T. 0.00 min  
Lab File: VN064745.D  
Acq: 19 Nov 2020 20:02

Tgt Ion: 73 Resp: 6589  
Ion Ratio Lower Upper  
73 100  
57 24.9 17.3 25.9

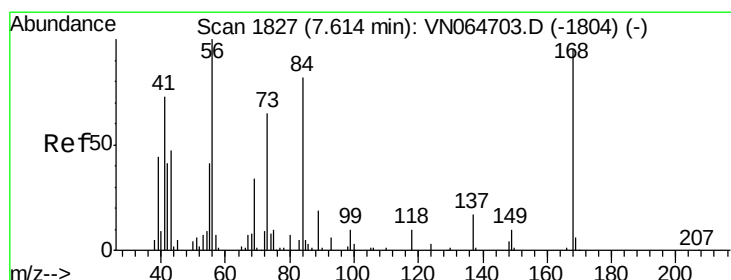
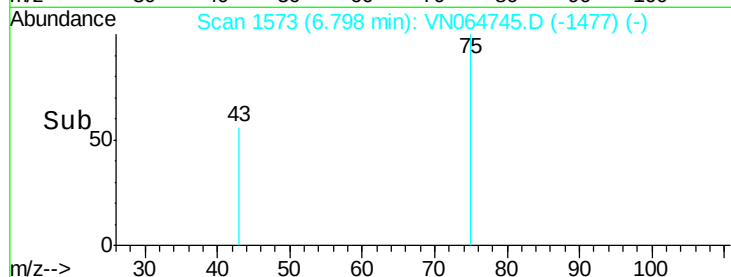
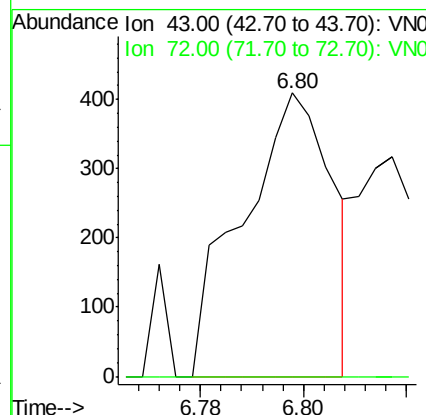
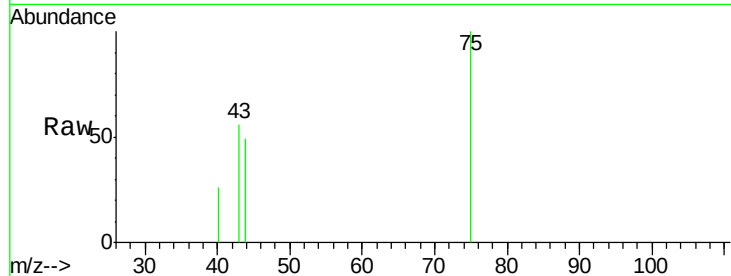




#25  
2-Butanone  
Concen: 0.362 ug/l  
RT: 6.80 min Scan# 1573  
Delta R.T. 0.01 min  
Lab File: VN064745.D  
Acq: 19 Nov 2020 20:02

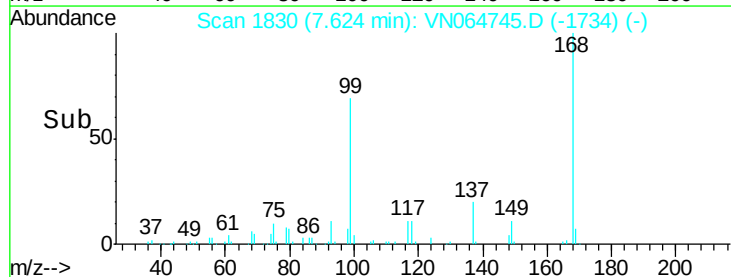
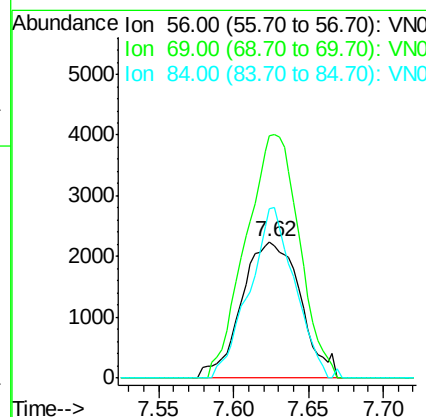
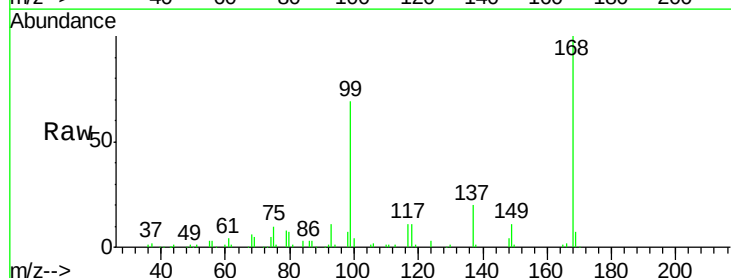
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-6D

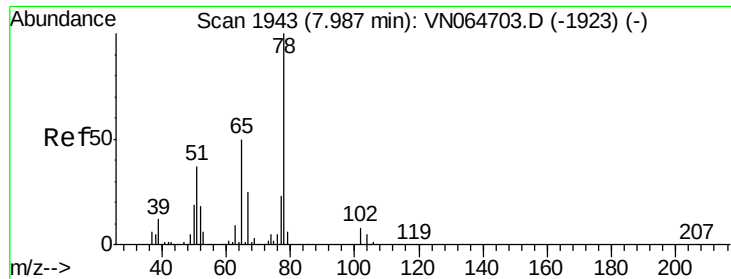
Tot Ion: 43 Resp: 494  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.7 29.5#



#31  
Cyclohexane  
Concen: 1.585 ug/l  
RT: 7.62 min Scan# 1830  
Delta R.T. 0.01 min  
Lab File: VN064745.D  
Acq: 19 Nov 2020 20:02

Tgt Ion: 56 Resp: 6119  
Ion Ratio Lower Upper  
56 100  
69 177.6 27.2 40.8#  
84 124.8 65.9 98.9#

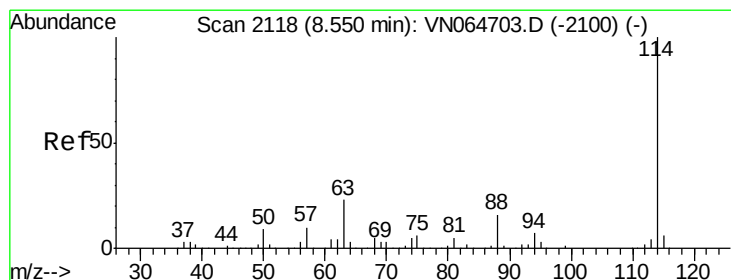
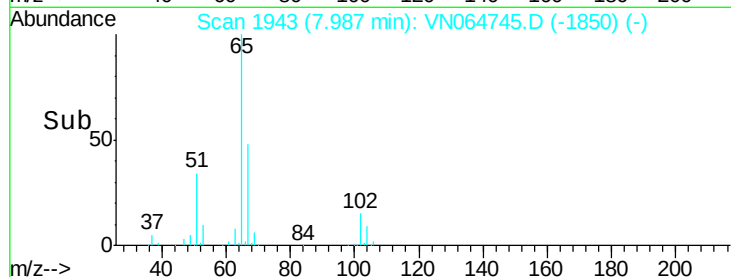
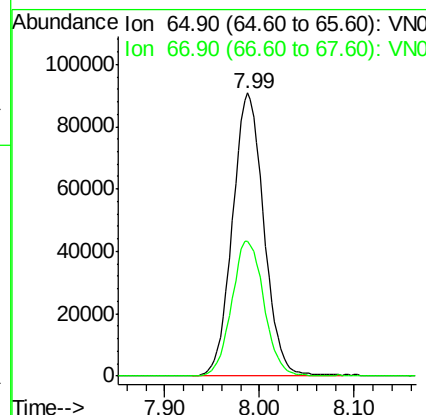
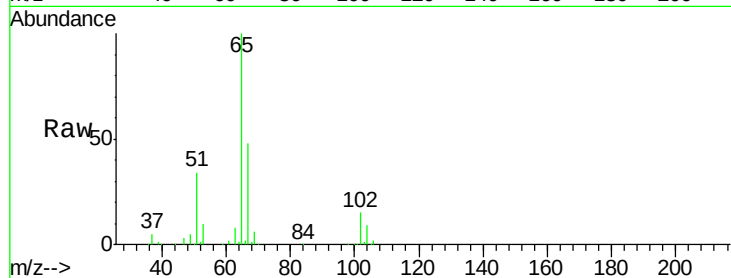




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.706 ug/l  
 RT: 7.99 min Scan# 1943  
 Delta R.T. 0.00 min  
 Lab File: VN064745.D  
 Acq: 19 Nov 2020 20:02

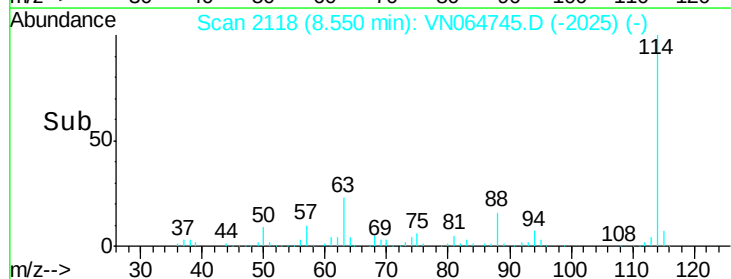
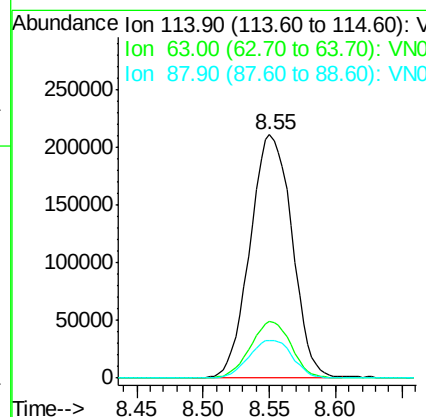
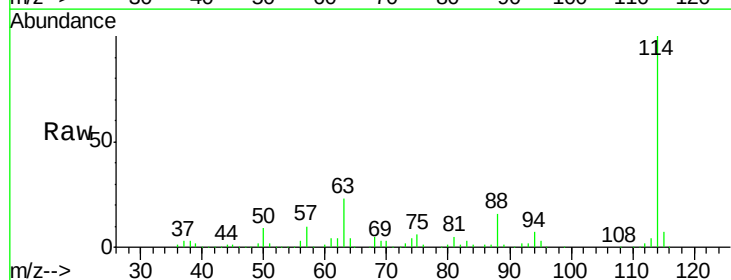
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MW-6D

Tot Ion: 65 Resp: 209646  
 Ion Ratio Lower Upper  
 65 100  
 67 48.8 0.0 99.8

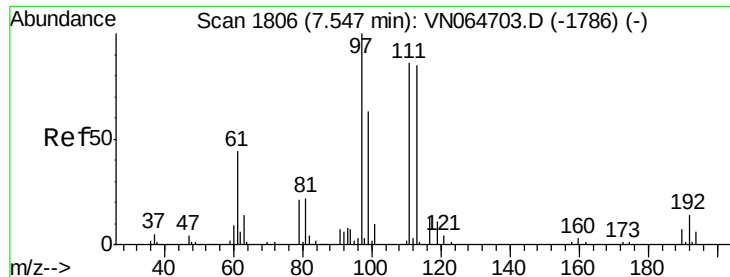


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN064745.D  
 Acq: 19 Nov 2020 20:02

Tgt Ion: 114 Resp: 464441  
 Ion Ratio Lower Upper  
 114 100  
 63 23.2 0.0 46.0  
 88 15.6 0.0 31.2







#35

Dibromofluoromethane

Concen: 53.098 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064745.D

Acq: 19 Nov 2020 20:02

Instrument :

MSVOA\_N

ClientSampleId :

MW-6D

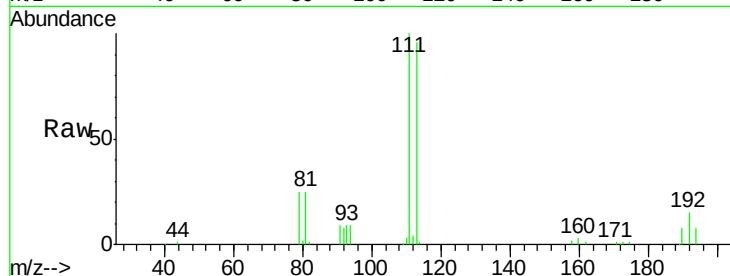
Tot Ion:113 Resp: 140362

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

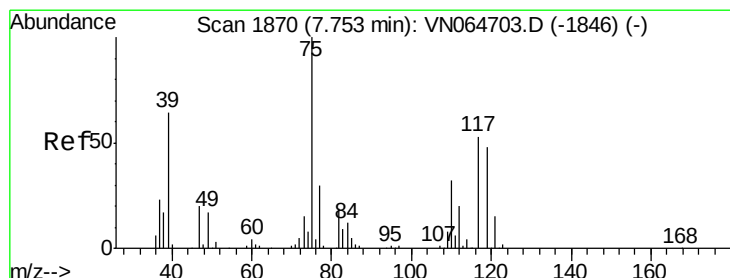
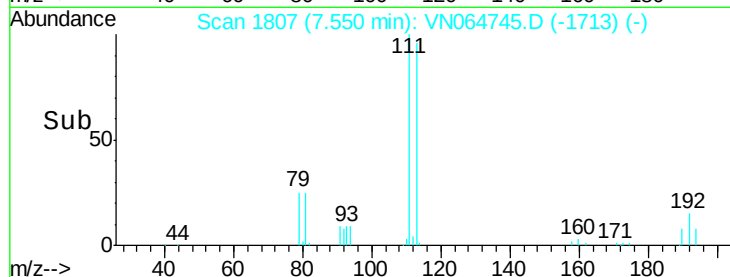
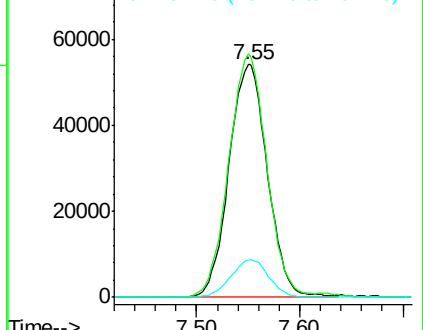
192 15.8 12.7 19.1



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: 4.331 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN064745.D

Acq: 19 Nov 2020 20:02

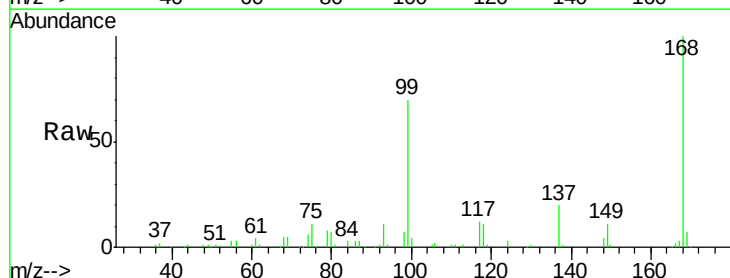
Tgt Ion: 75 Resp: 20695

Ion Ratio Lower Upper

75 100

110 9.5 16.2 48.6#

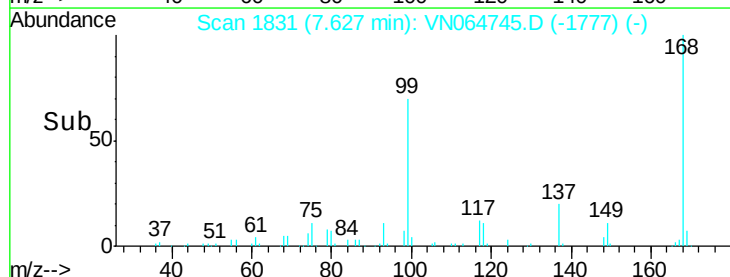
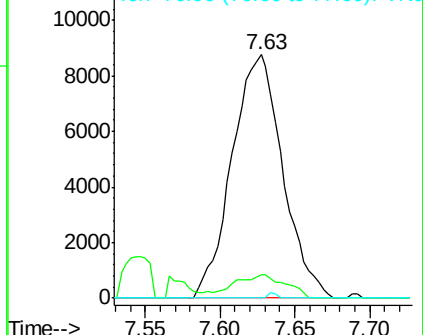
77 0.3 24.4 36.6#

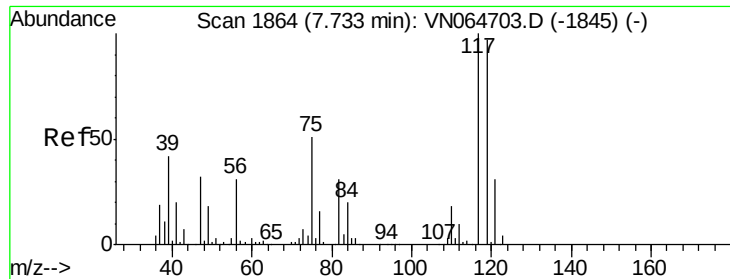


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.045 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN064745.D

Acq: 19 Nov 2020 20:02

Instrument :

MSVOA\_N

ClientSampled :

MW-6D

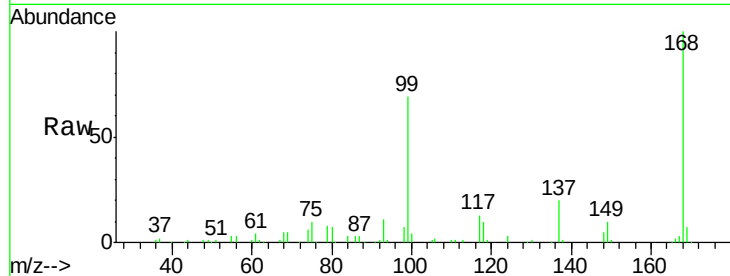
Tot Ion:117 Resp: 25621

Ion Ratio Lower Upper

117 100

119 5.1 77.8 116.6#

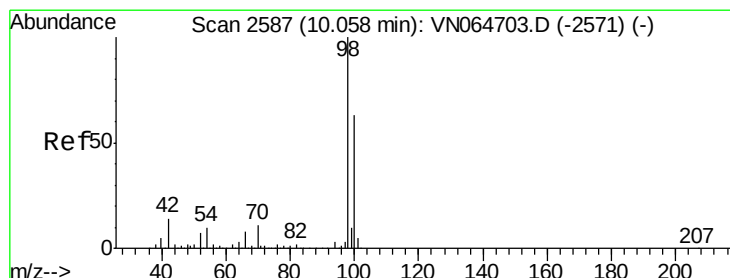
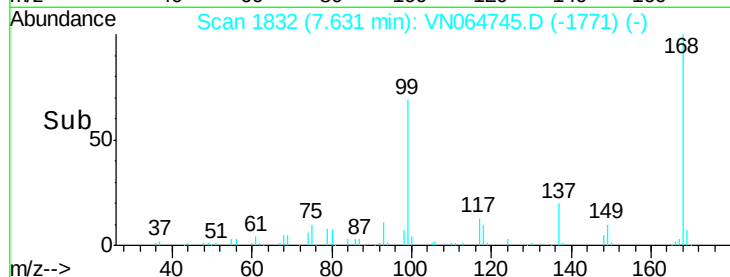
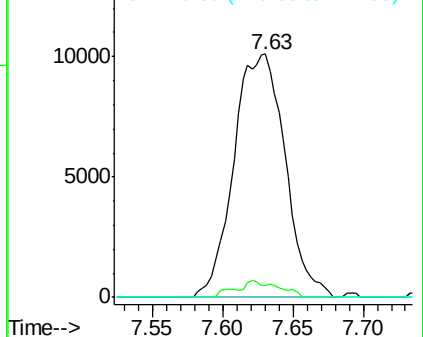
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 45.717 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064745.D

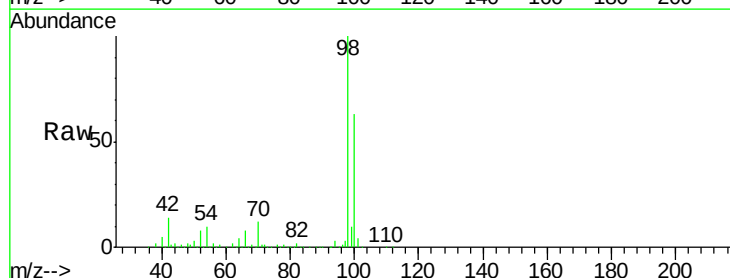
Acq: 19 Nov 2020 20:02

Tgt Ion: 98 Resp: 549254

Ion Ratio Lower Upper

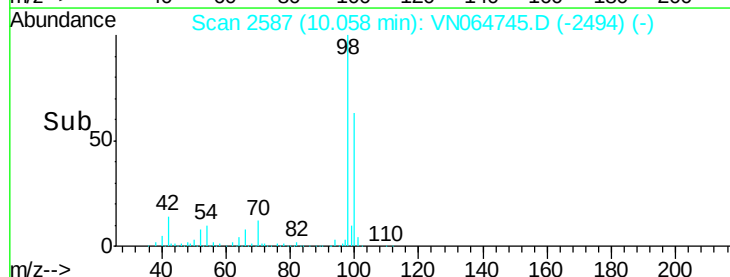
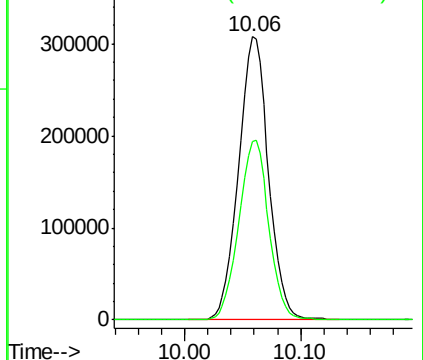
98 100

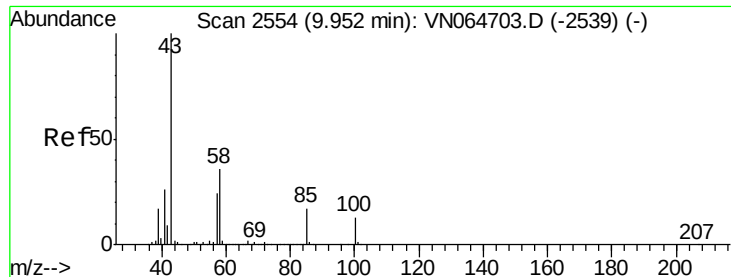
100 63.7 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 6.175 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064745.D

Acq: 19 Nov 2020 20:02

Instrument :

MSVOA\_N

ClientSampled :

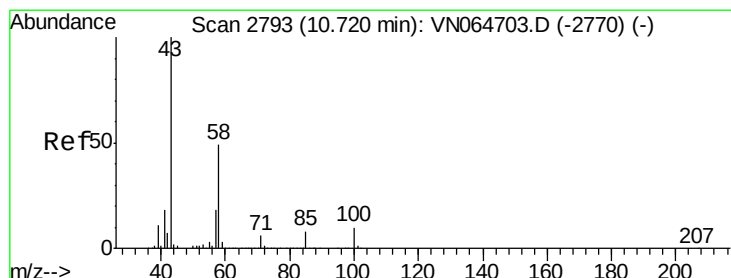
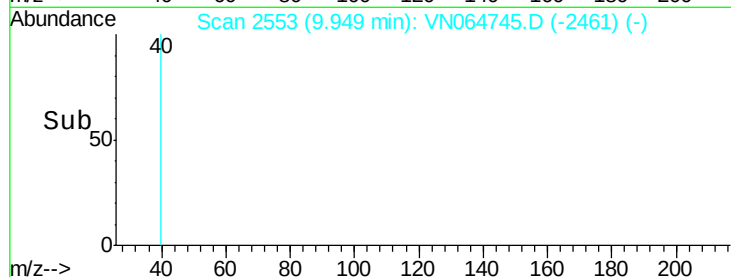
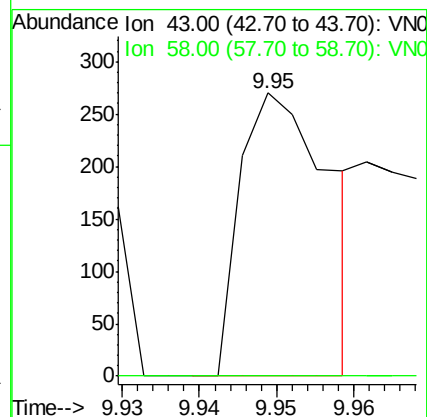
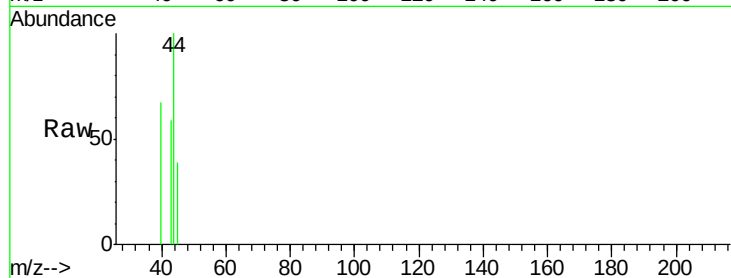
MW-6D

Tot Ion: 43 Resp: 217

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#



#59

2-Hexanone

Concen: 8.480 ug/l

RT: 10.71 min Scan# 2790

Delta R.T. -0.01 min

Lab File: VN064745.D

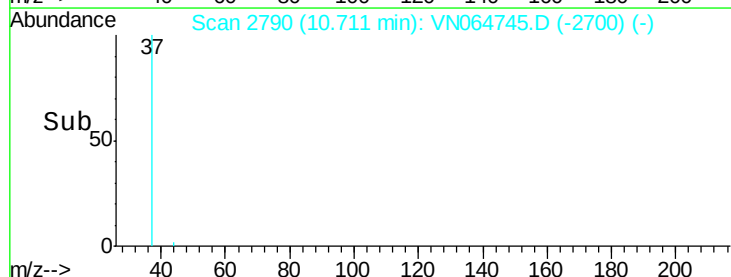
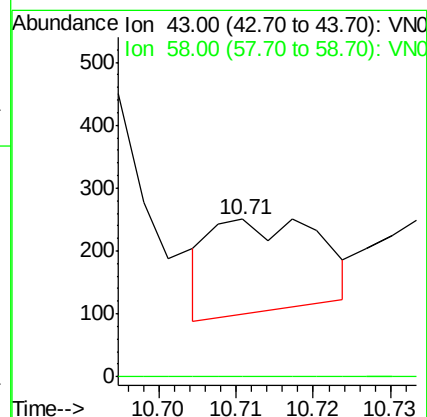
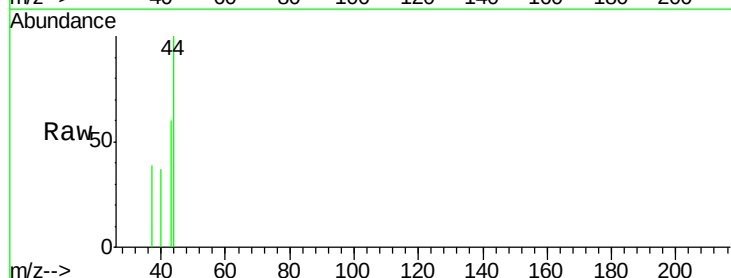
Acq: 19 Nov 2020 20:02

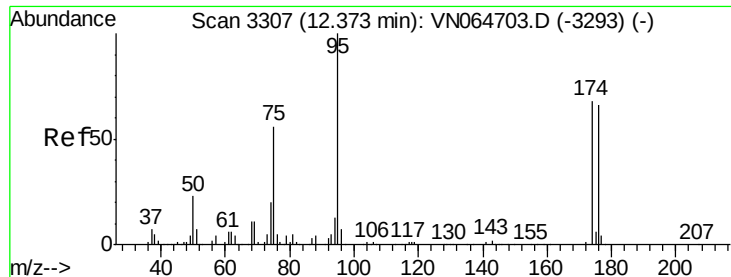
Tgt Ion: 43 Resp: 143

Ion Ratio Lower Upper

43 100

58 0.0 24.4 73.4#





#62

4-Bromofluorobenzene

Concen: 48.379 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064745.D

Acq: 19 Nov 2020 20:02

Instrument :

MSVOA\_N

ClientSampleId :

MW-6D

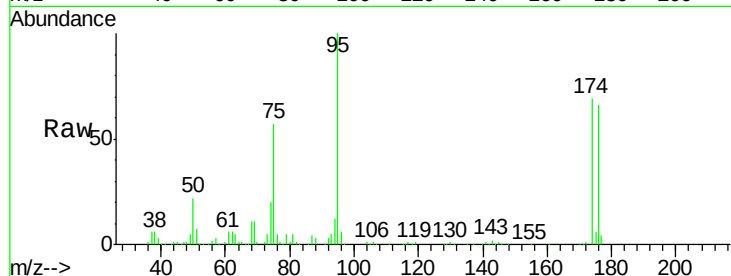
Tot Ion: 95 Resp: 217253

Ion Ratio Lower Upper

95 100

174 68.7 0.0 136.8

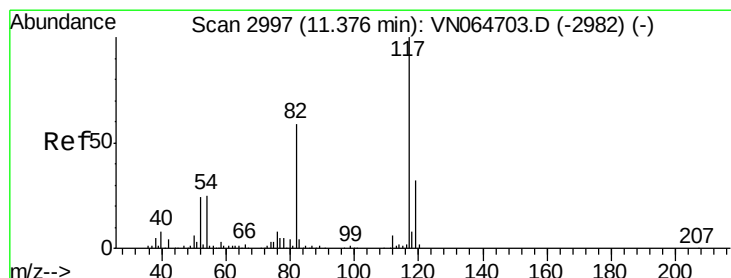
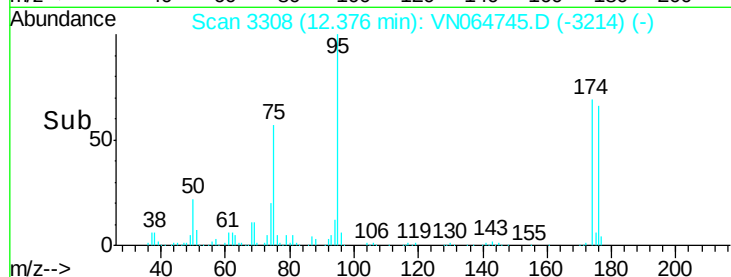
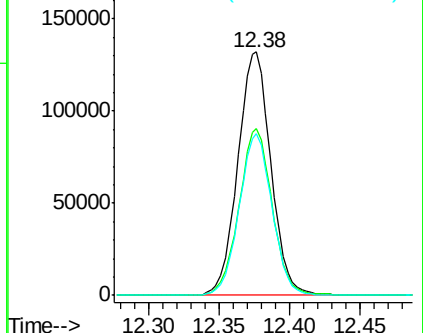
176 65.6 0.0 134.2



Abundance Ion 94.90 (94.60 to 95.60): VN064703.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN064703.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064703.D (-3293) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064745.D

Acq: 19 Nov 2020 20:02

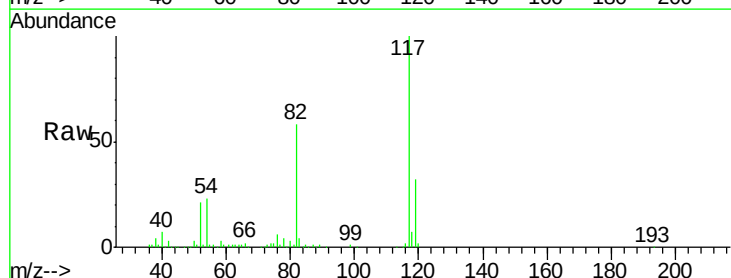
Tgt Ion: 117 Resp: 597233

Ion Ratio Lower Upper

117 100

82 57.5 47.0 70.6

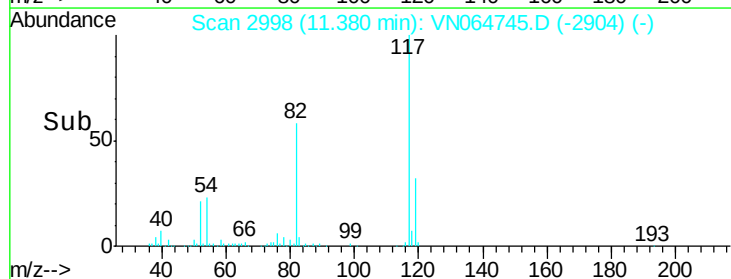
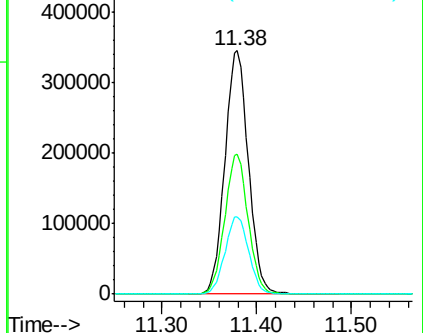
119 31.9 25.4 38.2

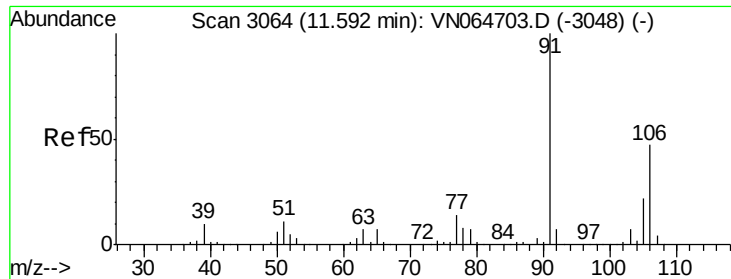


Abundance Ion 116.90 (116.60 to 117.60): VN064703.D (-2982) (-)

Ion 82.00 (81.70 to 82.70): VN064703.D (-2982) (-)

Ion 118.90 (118.60 to 119.60): VN064703.D (-2982) (-)

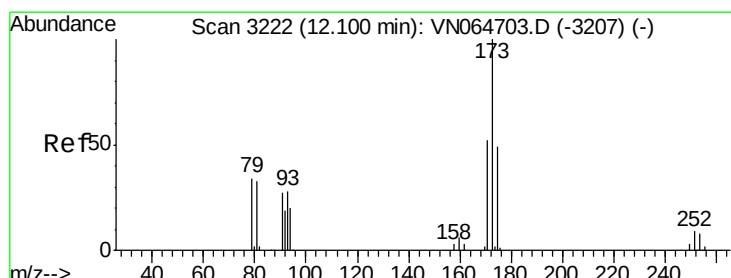
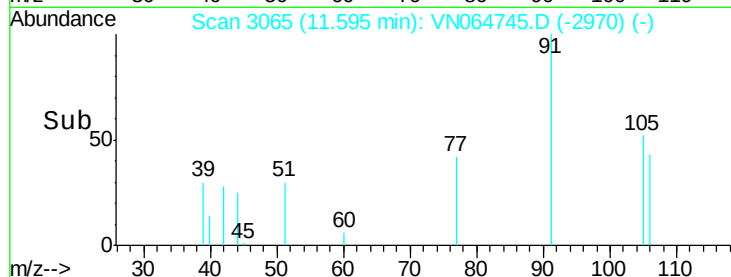
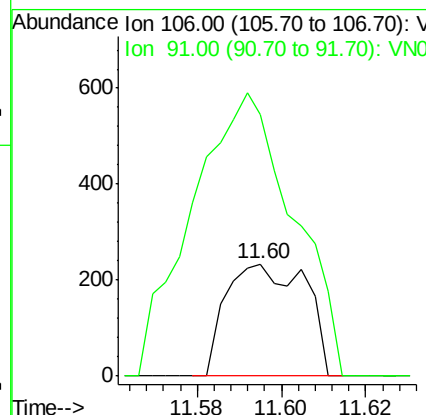
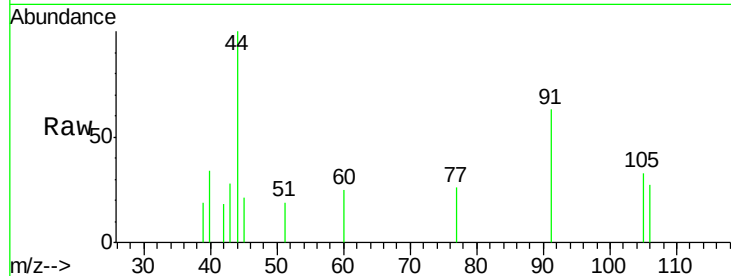




#68  
m/p-Xylenes  
Concen: 4.094 ug/l  
RT: 11.60 min Scan# 3065  
Delta R.T. 0.00 min  
Lab File: VN064745.D  
Acq: 19 Nov 2020 20:02

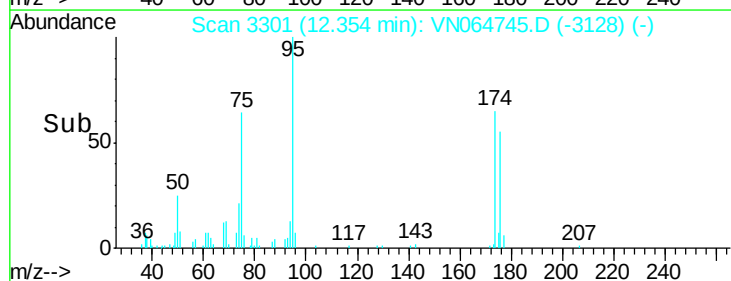
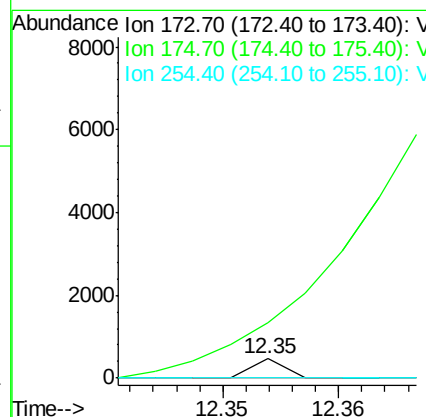
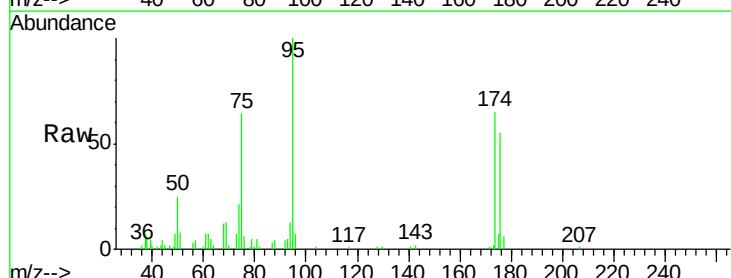
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-6D

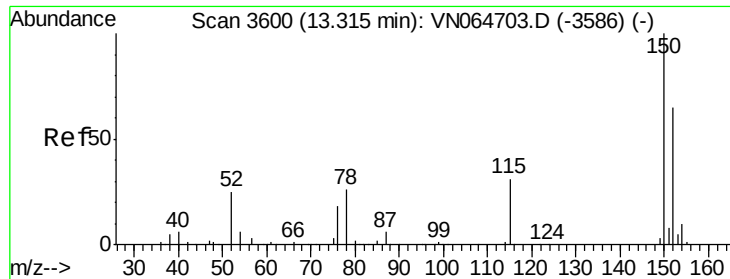
Tot Ion:106 Resp: 303  
Ion Ratio Lower Upper  
106 100  
91 326.1 171.9 257.9#



#71  
Bromoform  
Concen: 2.470 ug/l  
RT: 12.35 min Scan# 3301  
Delta R.T. 0.25 min  
Lab File: VN064745.D  
Acq: 19 Nov 2020 20:02

Tgt Ion:173 Resp: 91  
Ion Ratio Lower Upper  
173 100  
175 12597.8 24.3 72.9#  
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN064745.D

Acq: 19 Nov 2020 20:02

Instrument :

MSVOA\_N

ClientSampled :

MW-6D

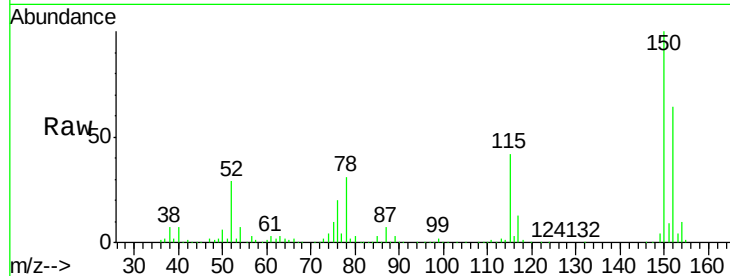
Tot Ion:152 Resp: 182421

Ion Ratio Lower Upper

152 100

115 67.1 32.1 96.3

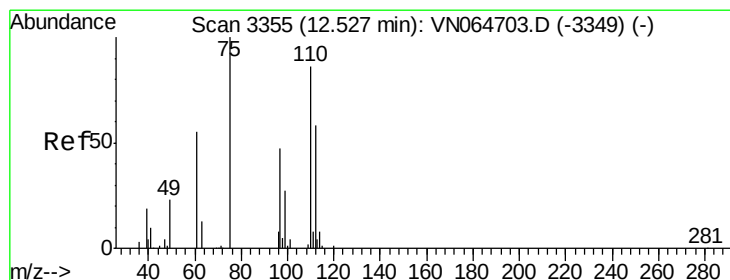
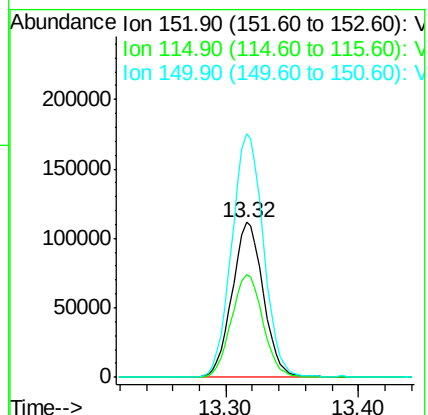
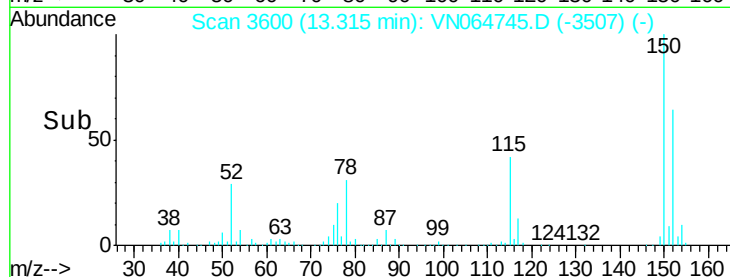
150 160.0 0.0 344.8



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: 31.961 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064745.D

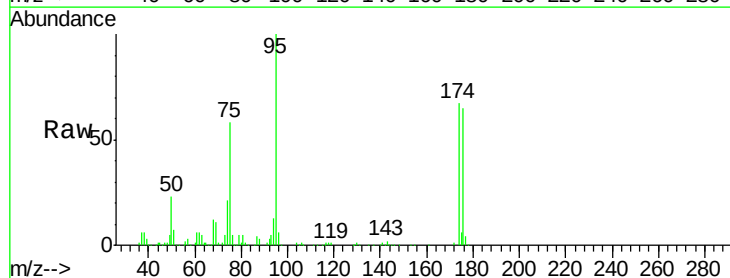
Acq: 19 Nov 2020 20:02

Tgt Ion: 75 Resp: 125625

Ion Ratio Lower Upper

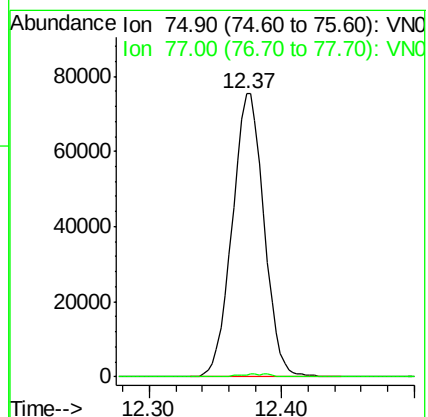
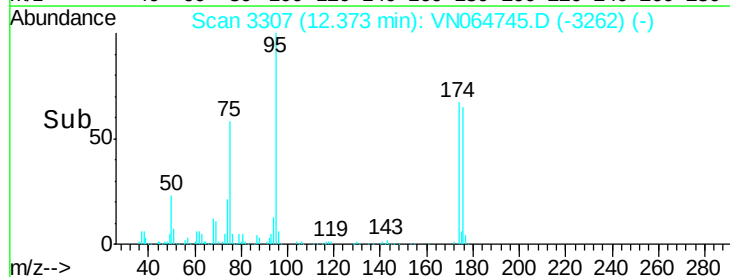
75 100

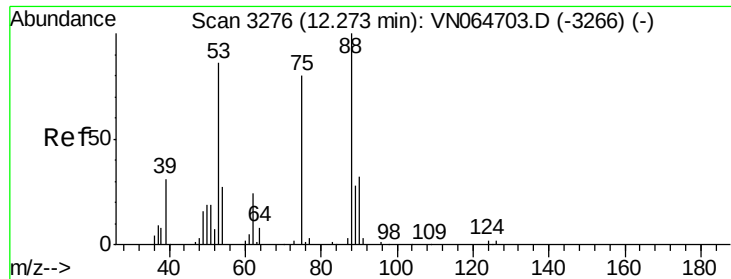
77 1.1 0.0 0.0#



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: 81.375 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064745.D

Acq: 19 Nov 2020 20:02

Instrument :

MSVOA\_N

ClientSampleId :

MW-6D

Tot Ion: 75 Resp: 125625

Ion Ratio Lower Upper

75 100

53 0.2 88.8 133.2#

89 0.0 43.1 64.7#

