

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\  
 Data File : VN060799.D  
 Acq On : 31 Mar 2020 20:15  
 Operator : JC/MD  
 Sample : PB127897ZHE#06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 01 08:26:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 199696   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 336489   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 320464   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 148267   | 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   | 131582   | 48.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.00%  |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 98890    | 48.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.20%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 414440   | 49.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.74%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 159639   | 52.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.82% |          |

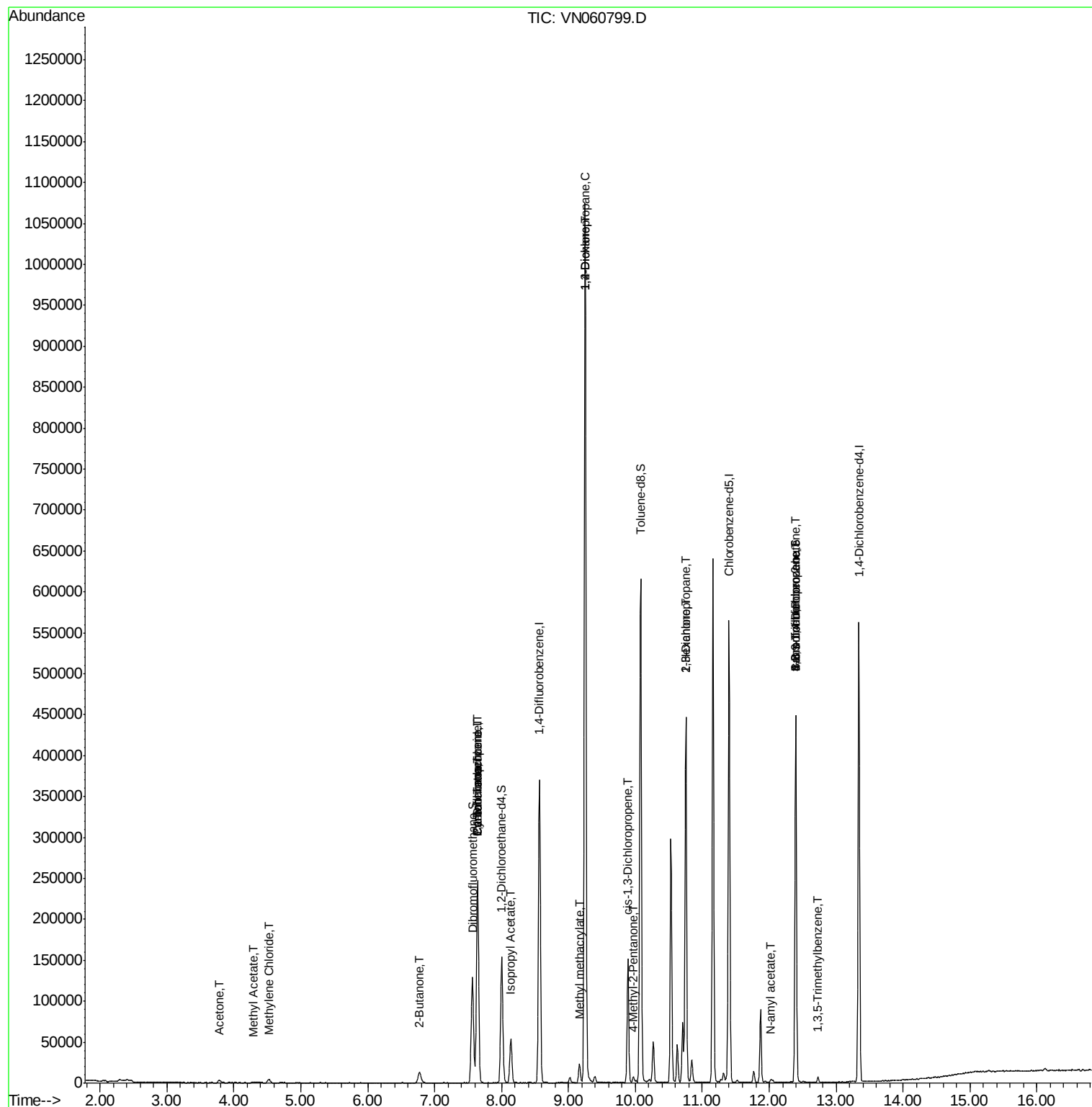
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.78  | 43   | 6271     | 6.458  | ug/l   | 92     |
| 18) Methyl Acetate             | 4.29  | 43   | 2061     | 0.754  | ug/l # | 57     |
| 20) Methylene Chloride         | 4.53  | 84   | 3189     | 1.335  | ug/l   | 84     |
| 25) 2-Butanone                 | 6.78  | 43   | 577      | 0.367  | ug/l # | 50     |
| 31) Cyclohexane                | 7.64  | 56   | 4035     | 0.914  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 16016    | 4.916  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18936    | 6.484  | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.14  | 43   | 64474    | 11.104 | ug/l # | 91     |
| 45) 1,2-Dichloropropane        | 9.25  | 63   | 1221     | 0.470  | ug/l # | 43     |
| 48) Methyl methacrylate        | 9.16  | 41   | 3497     | 1.353  | ug/l # | 15     |
| 49) 1,4-Dioxane                | 9.25  | 88   | 29       | 0.944  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 5238     | 1.585  | ug/l   | 88     |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75   | 26851    | 6.535  | ug/l # | 61     |
| 57) 1,3-Dichloropropane        | 10.75 | 76   | 4707     | 1.187  | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.75 | 43   | 65949    | 27.709 | ug/l # | 52     |
| 71) Bromoform                  | 12.40 | 173  | 601      | 1.984  | ug/l # | 1      |
| 74) N-amyl acetate             | 12.02 | 43   | 3349     | 0.651  | ug/l # | 45     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 79628    | 24.889 | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 3603     | 0.382  | ug/l   | 95     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 79628    | 63.923 | ug/l # | 13     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN033120\  
Data File : VN060799.D  
Acq On : 31 Mar 2020 20:15  
Operator : JC/MD  
Sample : PB127897ZHE#06  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Apr 01 08:26:01 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 18 08:49:09 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :

MSVOA\_N

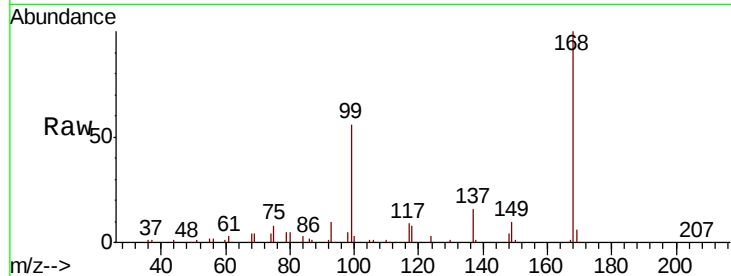
ClientSampleId :

Tot Ion:168 Resp: 199696

Ion Ratio Lower Upper

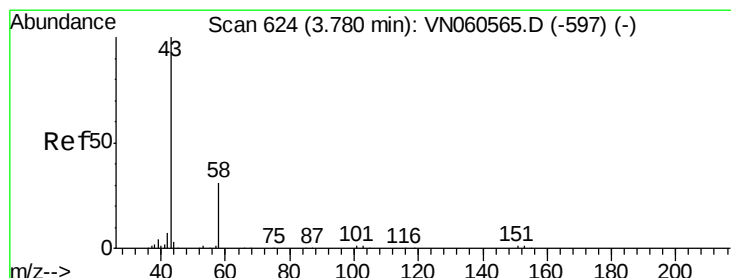
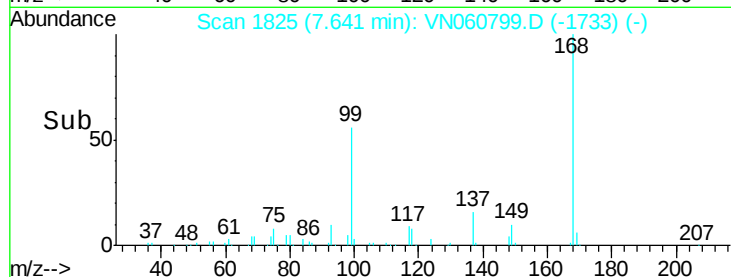
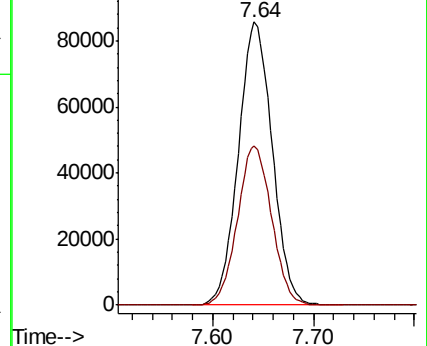
168 100

99 56.2 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 6.458 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060799.D

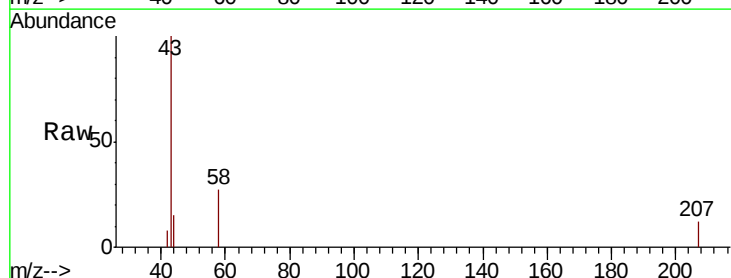
Acq: 31 Mar 2020 20:15

Tgt Ion: 43 Resp: 6271

Ion Ratio Lower Upper

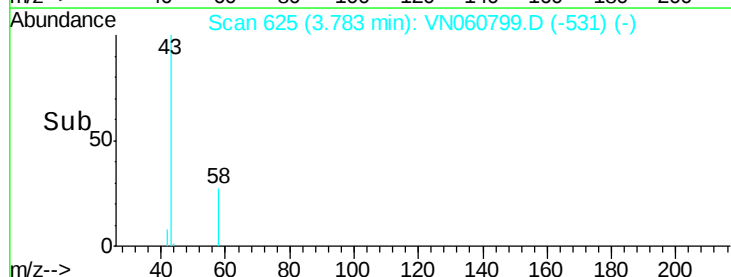
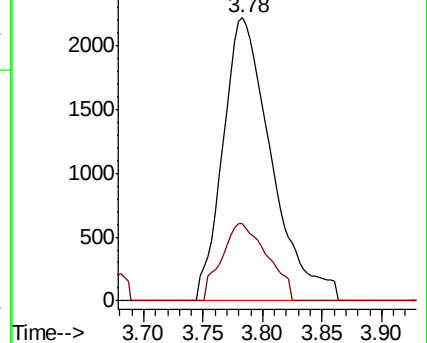
43 100

58 27.1 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#18

Methyl Acetate

Concen: 0.754 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :

MSVOA\_N

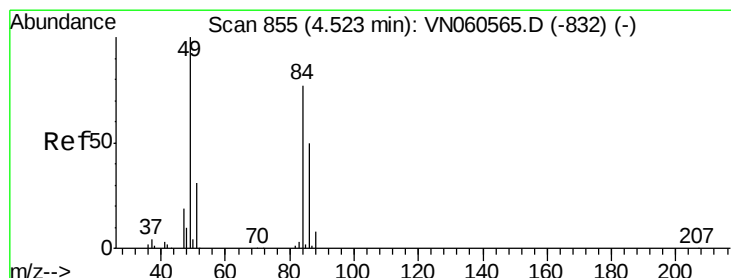
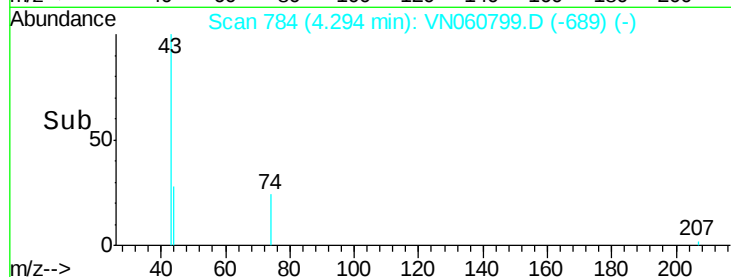
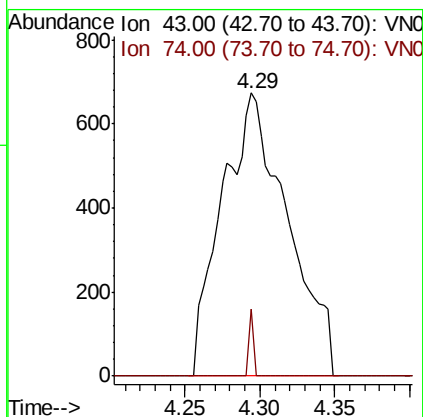
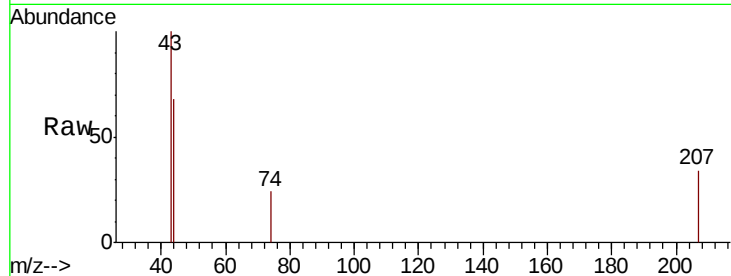
ClientSampleId :

Tot Ion: 43 Resp: 2061

Ion Ratio Lower Upper

43 100

74 1.5 17.5 26.3#



#20

Methylene Chloride

Concen: 1.335 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Tgt Ion: 84 Resp: 3189

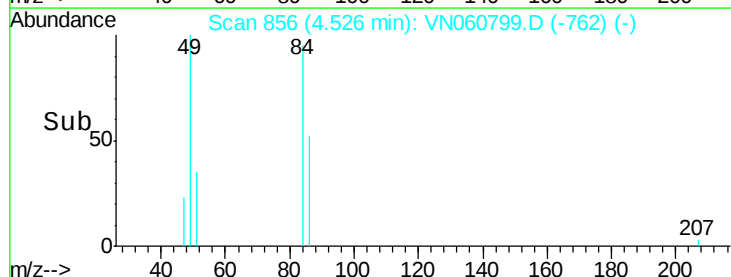
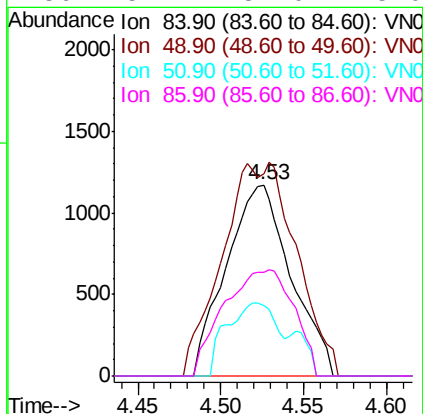
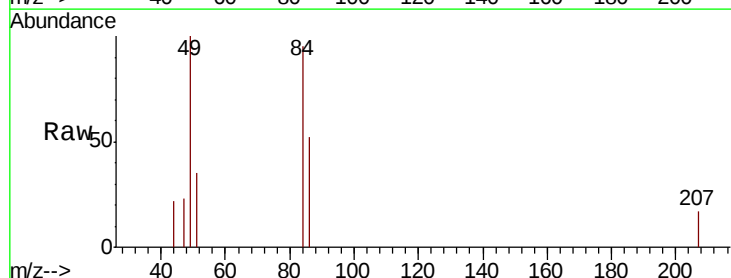
Ion Ratio Lower Upper

84 100

49 105.5 103.3 154.9

51 36.8 31.6 47.4

86 54.4 52.0 78.0

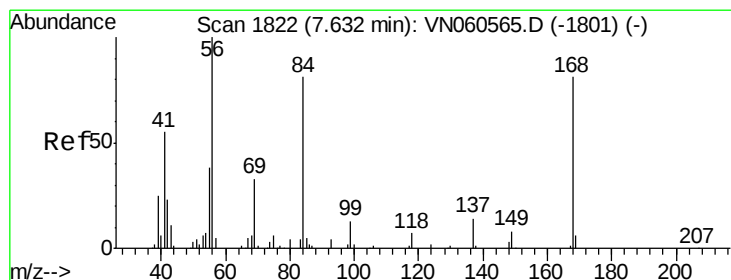
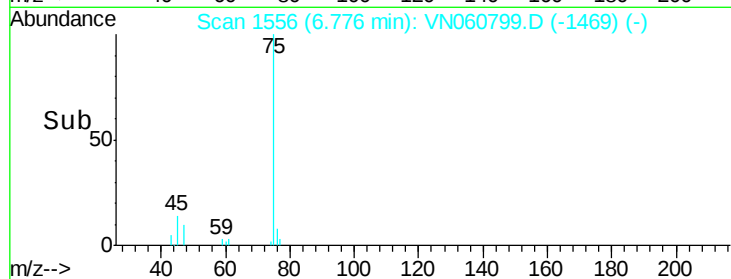
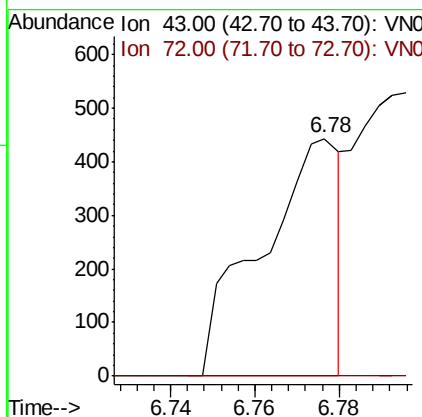
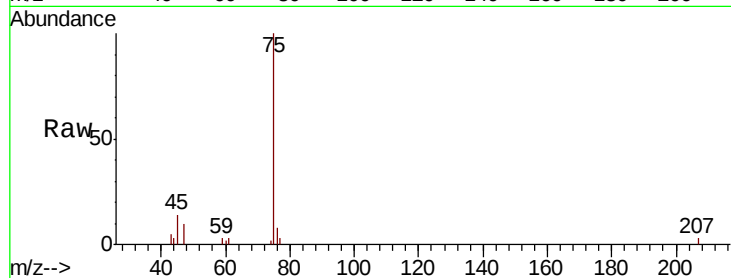




#25  
2-Butanone  
Concen: 0.367 ug/l  
RT: 6.78 min Scan# 1556  
Delta R.T. -0.02 min  
Lab File: VN060799.D  
Acq: 31 Mar 2020 20:15

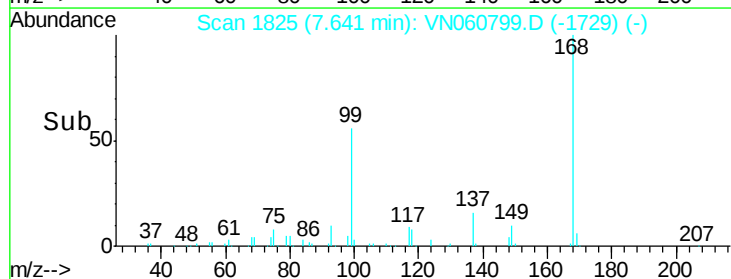
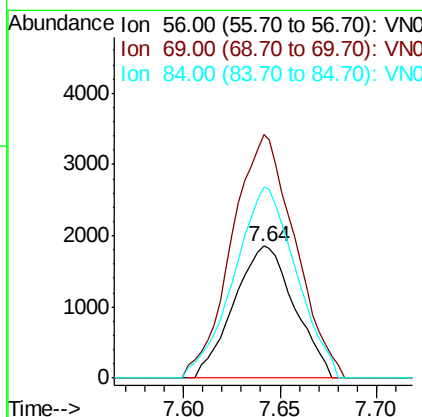
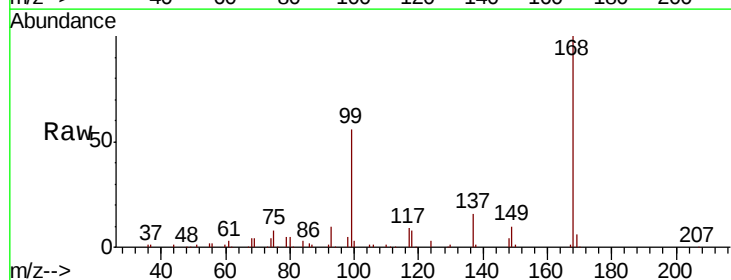
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 43 Resp: 577  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.4 30.6#



#31  
Cyclohexane  
Concen: 0.914 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. 0.01 min  
Lab File: VN060799.D  
Acq: 31 Mar 2020 20:15

Tgt Ion: 56 Resp: 4035  
Ion Ratio Lower Upper  
56 100  
69 175.1 26.6 40.0#  
84 144.9 64.3 96.5#

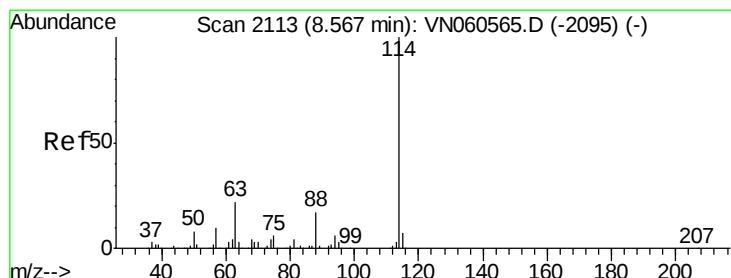
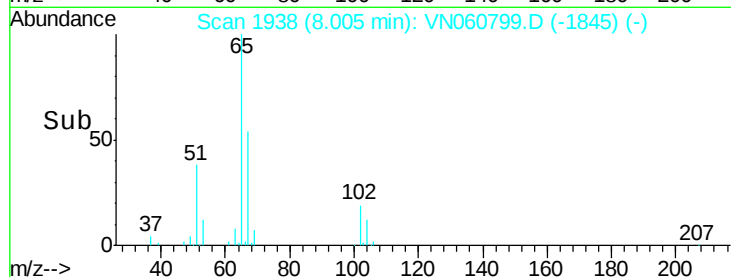
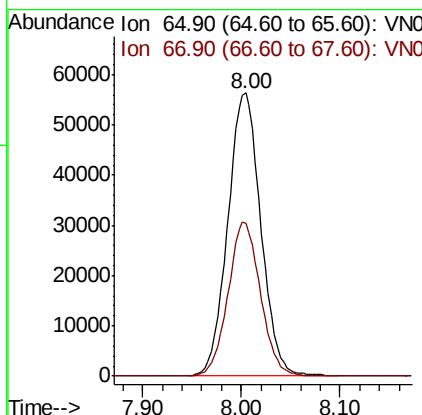
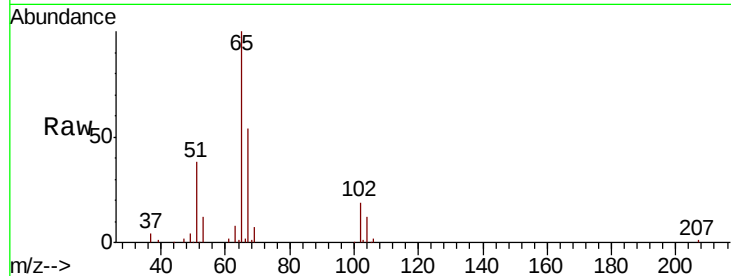




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.999 ug/l  
 RT: 8.00 min Scan# 1938  
 Delta R.T. 0.00 min  
 Lab File: VN060799.D  
 Acq: 31 Mar 2020 20:15

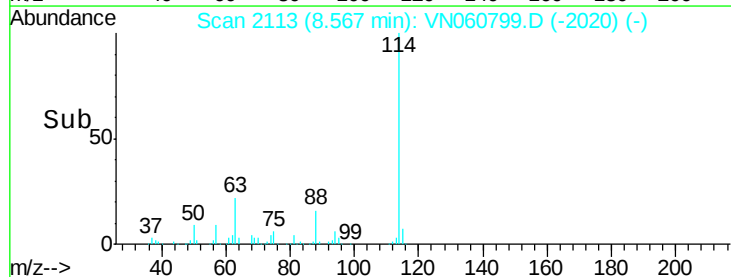
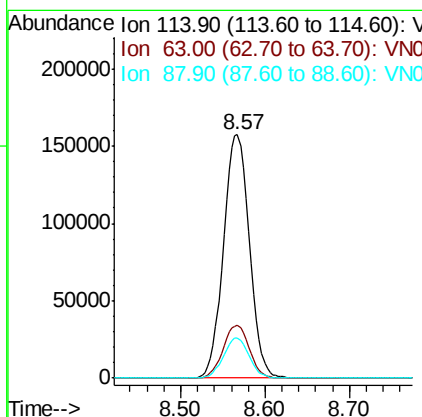
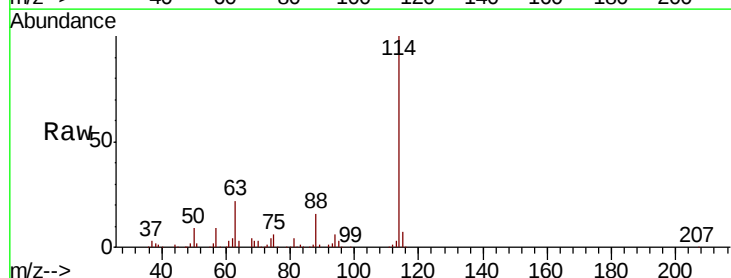
Instrument :  
 MSVOA\_N  
 ClientSampleId :

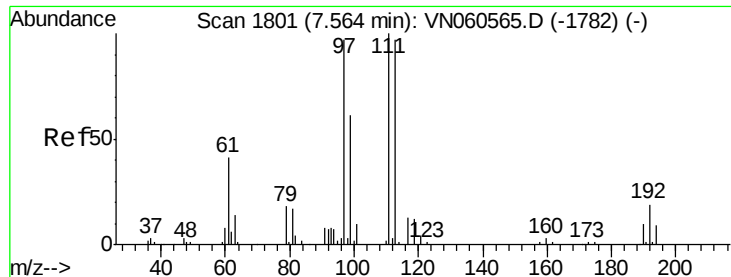
Tot Ion: 65 Resp: 131582  
 Ion Ratio Lower Upper  
 65 100  
 67 53.2 0.0 107.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VN060799.D  
 Acq: 31 Mar 2020 20:15

Tgt Ion: 114 Resp: 336489  
 Ion Ratio Lower Upper  
 114 100  
 63 21.5 0.0 43.8  
 88 16.3 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.603 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :  
MSVOA\_N  
ClientSampled :

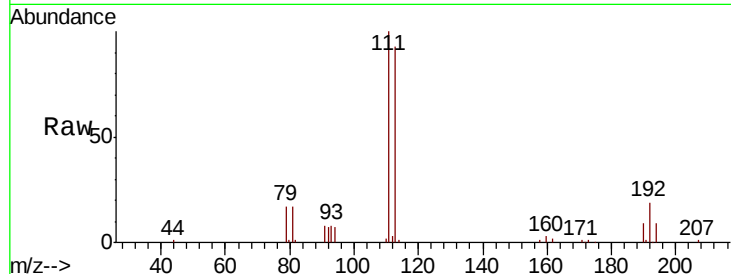
Tot Ion:113 Resp: 98890

Ion Ratio Lower Upper

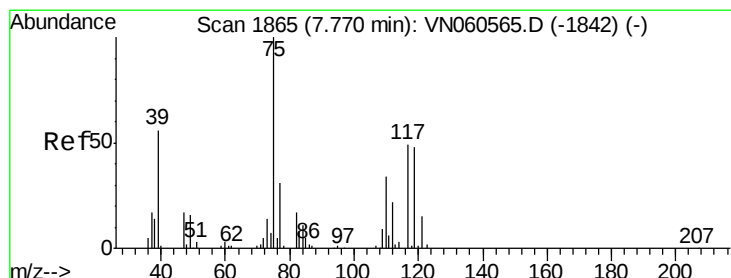
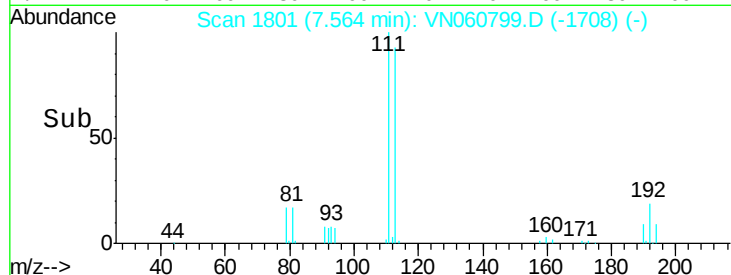
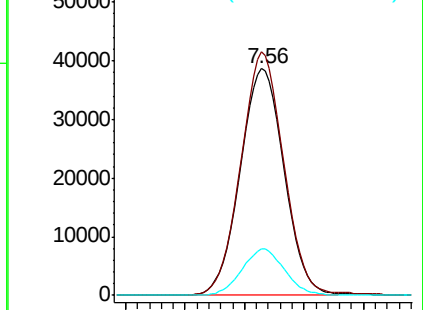
113 100

111 105.1 82.9 124.3

192 19.8 15.8 23.8



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: 4.916 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

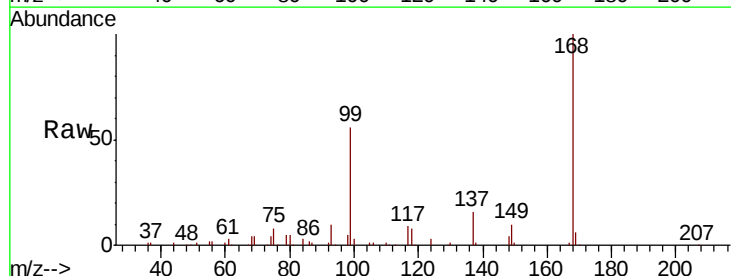
Tgt Ion: 75 Resp: 16016

Ion Ratio Lower Upper

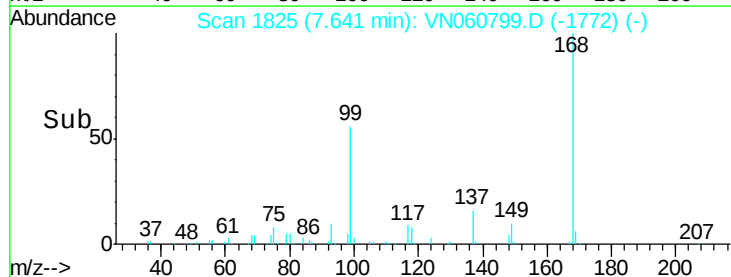
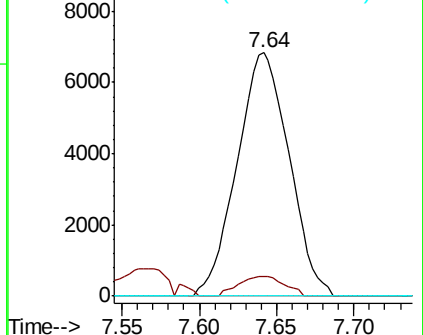
75 100

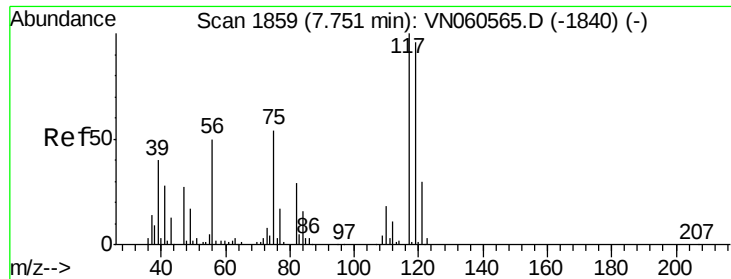
110 7.1 16.9 50.6#

77 0.0 24.6 36.8#



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: 6.484 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :

MSVOA\_N

ClientSampled :

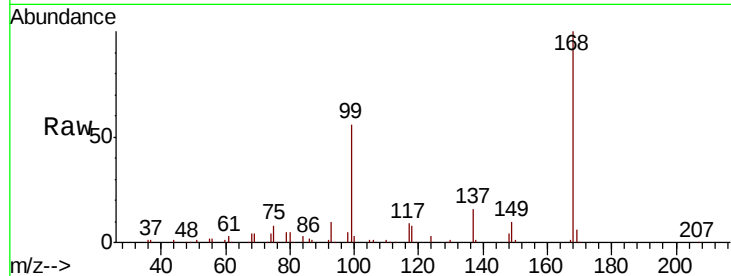
Tot Ion:117 Resp: 18936

Ion Ratio Lower Upper

117 100

119 4.4 76.2 114.2#

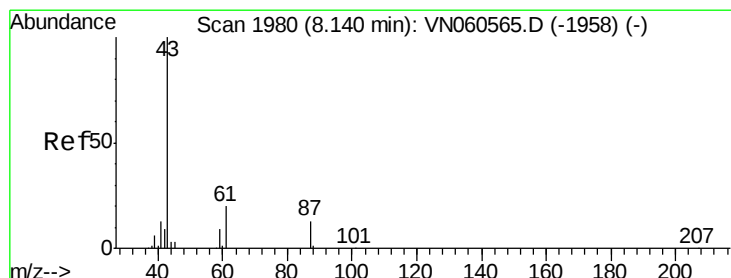
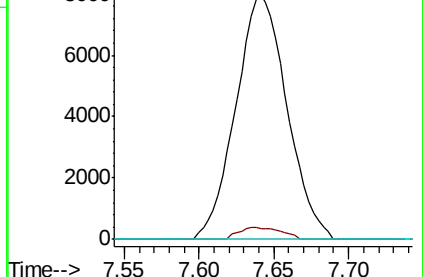
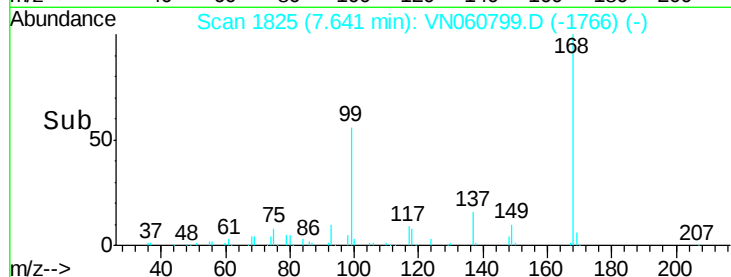
121 0.0 23.7 35.5#



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: 11.104 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

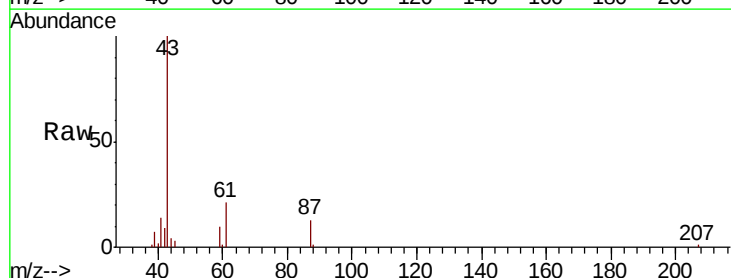
Tgt Ion: 43 Resp: 64474

Ion Ratio Lower Upper

43 100

61 19.4 20.7 31.1#

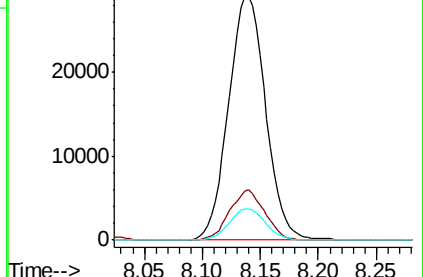
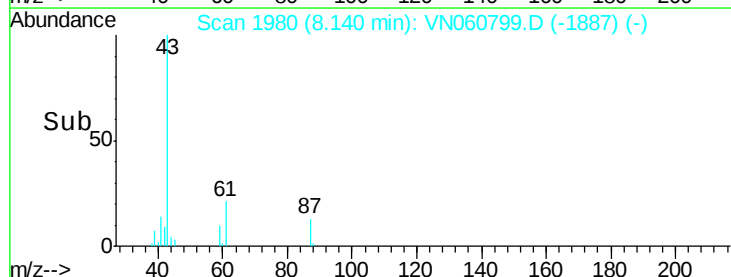
87 12.4 9.8 14.8

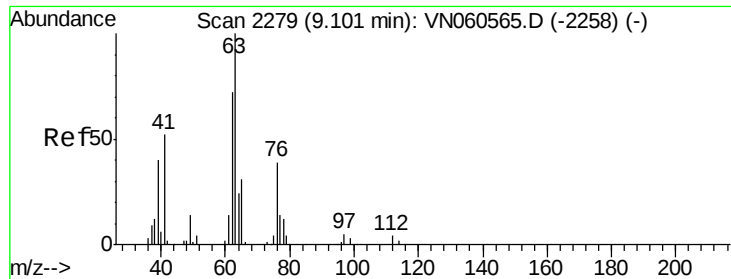


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.470 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :

MSVOA\_N

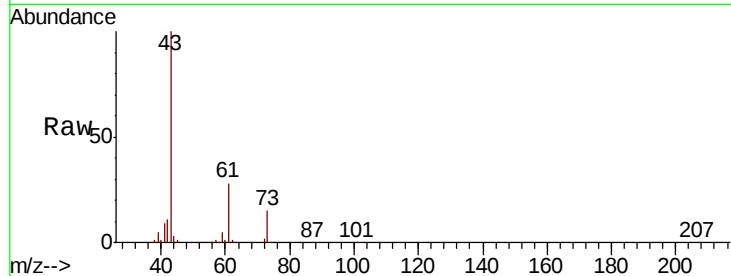
ClientSampleId :

Tot Ion: 63 Resp: 1221

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

800

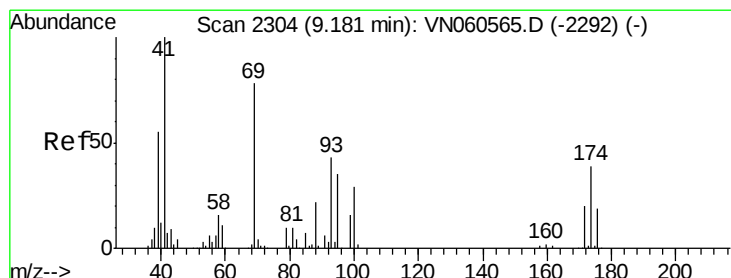
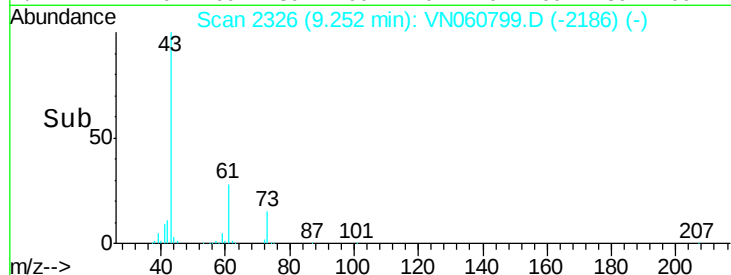
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.353 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

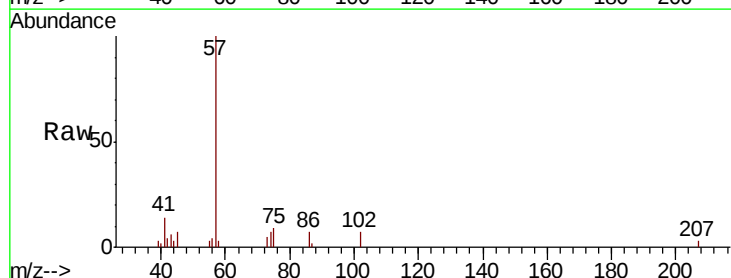
Tgt Ion: 41 Resp: 3497

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

39 0.0 44.0 66.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

60000

50000

40000

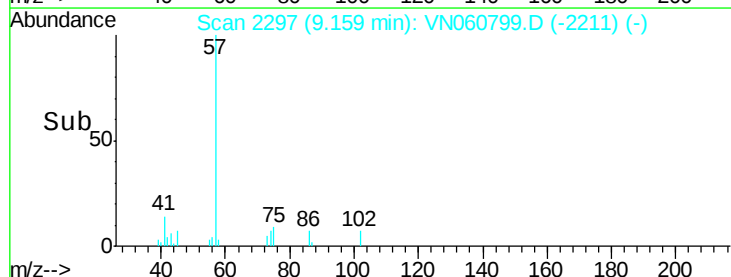
30000

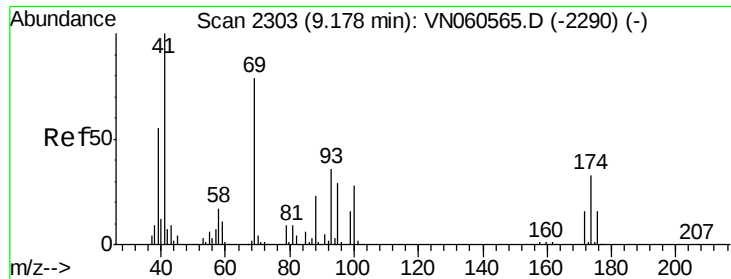
20000

10000

0

Time-->

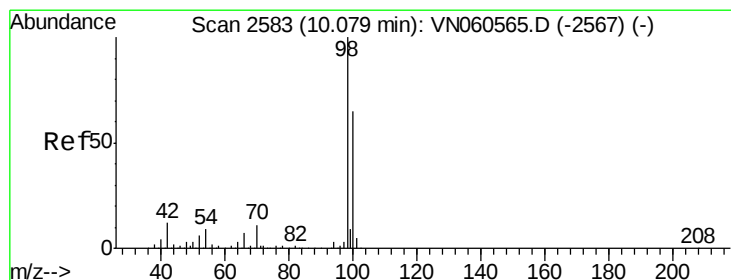
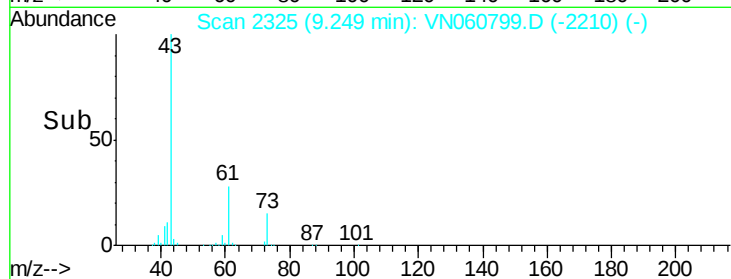
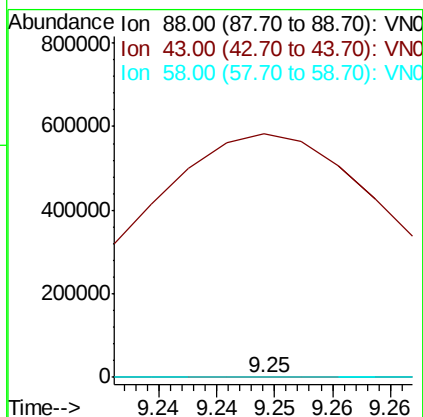
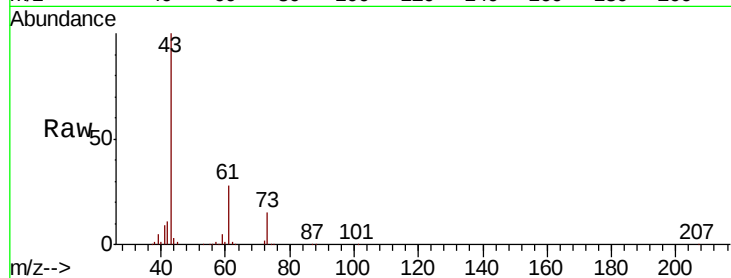




#49  
1,4-Dioxane  
Concen: 0.944 ug/l  
RT: 9.25 min Scan# 2325  
Delta R.T. 0.07 min  
Lab File: VN060799.D  
Acq: 31 Mar 2020 20:15

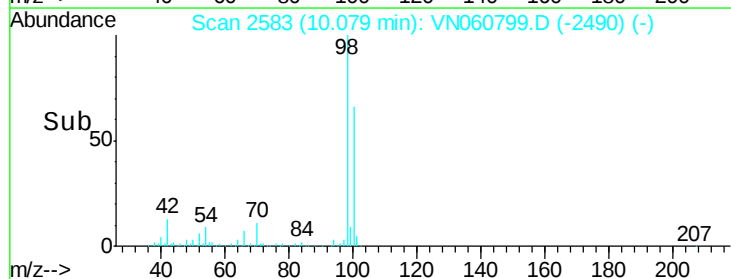
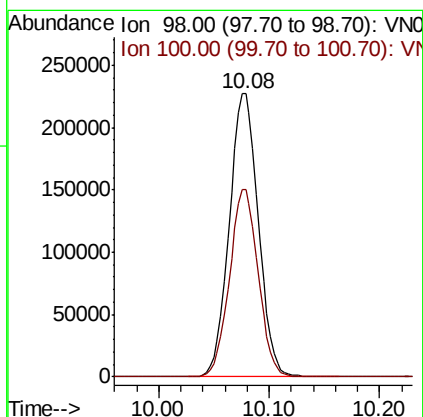
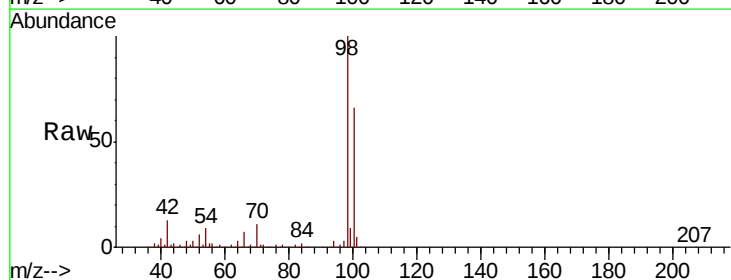
Instrument :  
MSVOA\_N  
ClientSampled :

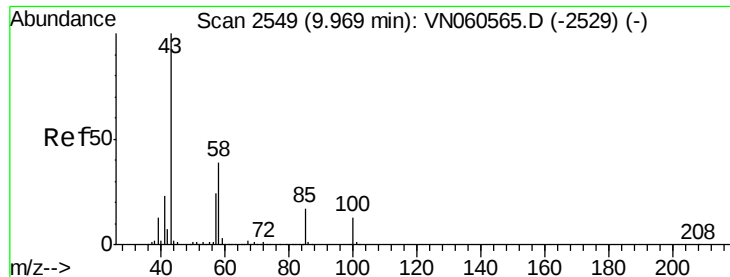
Tot Ion: 88 Resp: 29  
Ion Ratio Lower Upper  
88 100  
43 3696727.6 30.8 46.2#  
58 14420.7 59.8 89.8#



#50  
Toluene-d8  
Concen: 49.868 ug/l  
RT: 10.08 min Scan# 2583  
Delta R.T. 0.00 min  
Lab File: VN060799.D  
Acq: 31 Mar 2020 20:15

Tgt Ion: 98 Resp: 414440  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.585 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :

MSVOA\_N

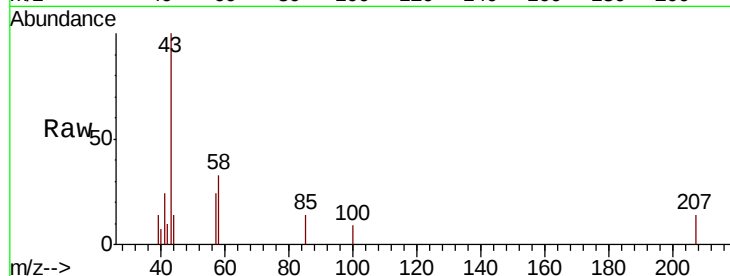
ClientSampled :

Tot Ion: 43 Resp: 5238

Ion Ratio Lower Upper

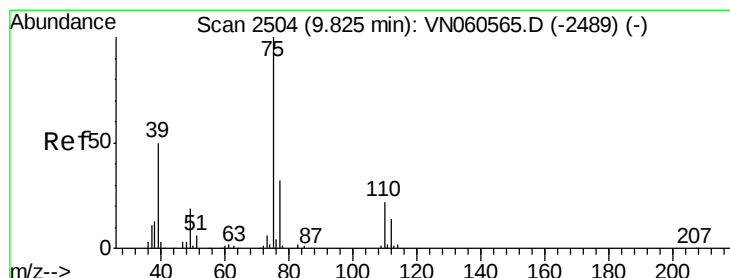
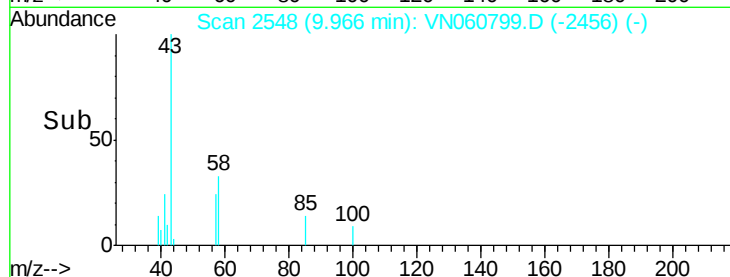
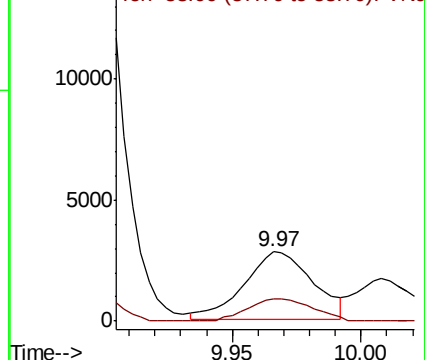
43 100

58 31.4 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060799.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060799.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.535 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

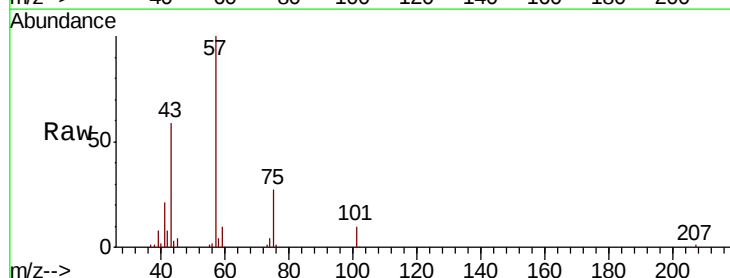
Tgt Ion: 75 Resp: 26851

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

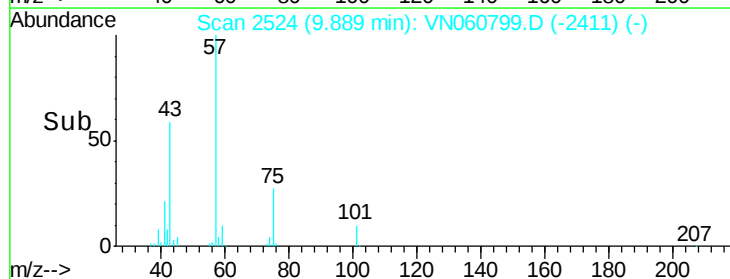
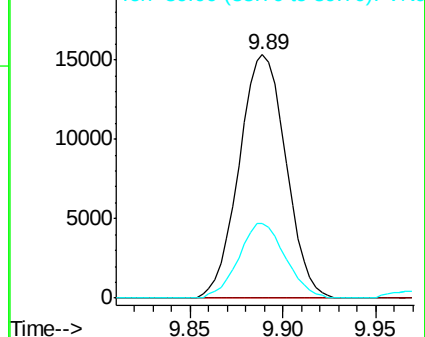
39 30.8 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060799.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060799.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060799.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 1.187 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :

MSVOA\_N

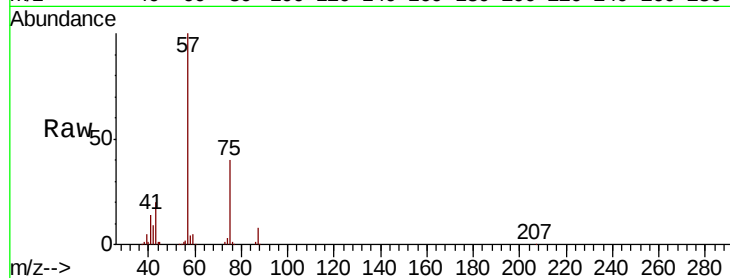
ClientSampleId :

Tot Ion: 76 Resp: 4707

Ion Ratio Lower Upper

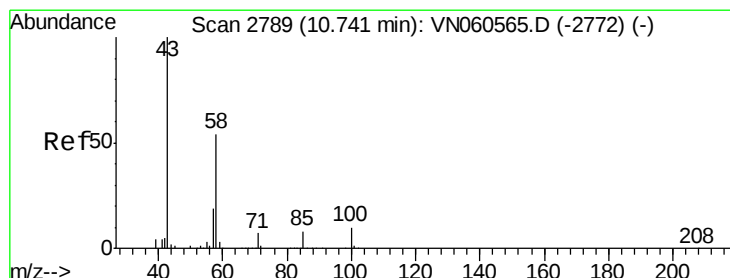
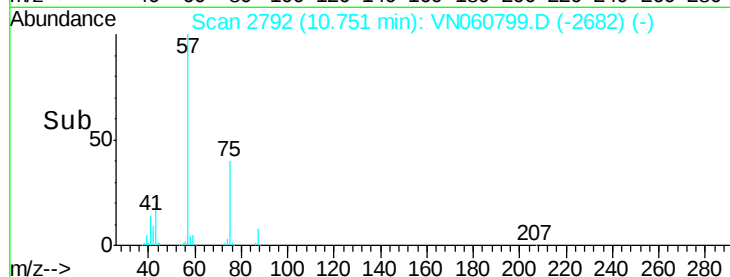
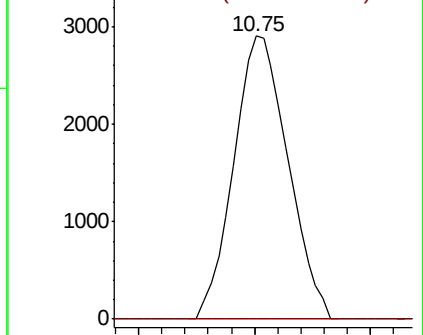
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 27.709 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060799.D

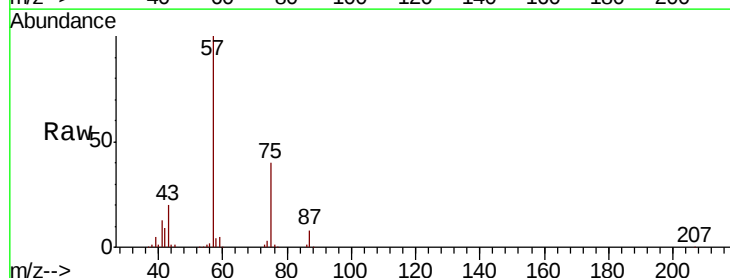
Acq: 31 Mar 2020 20:15

Tgt Ion: 43 Resp: 65949

Ion Ratio Lower Upper

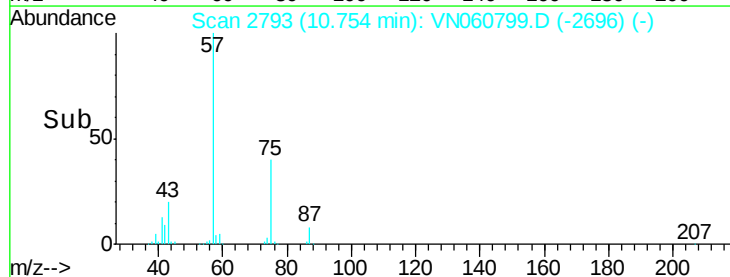
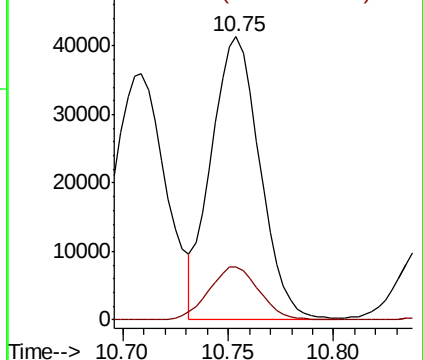
43 100

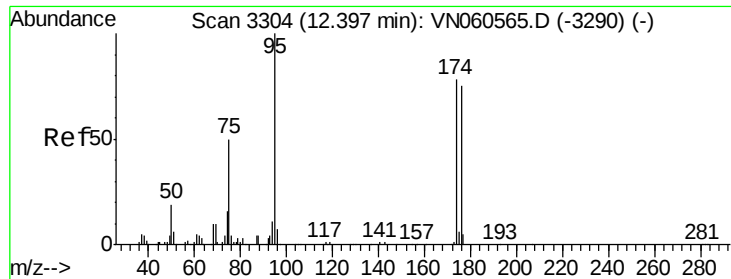
58 19.4 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.413 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :

MSVOA\_N

ClientSampleId :

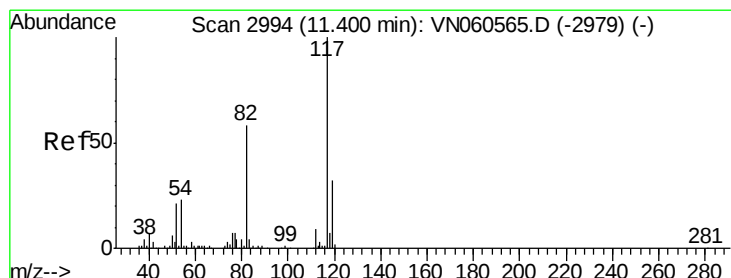
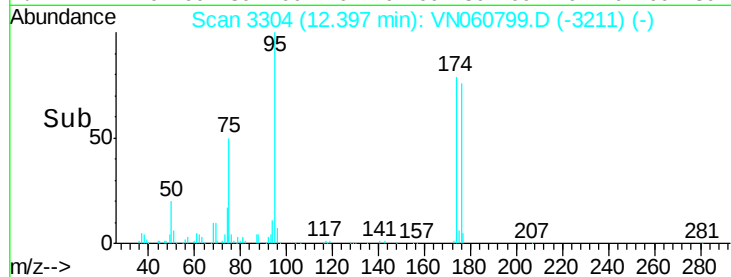
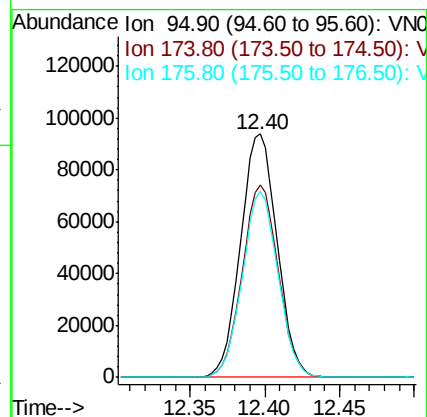
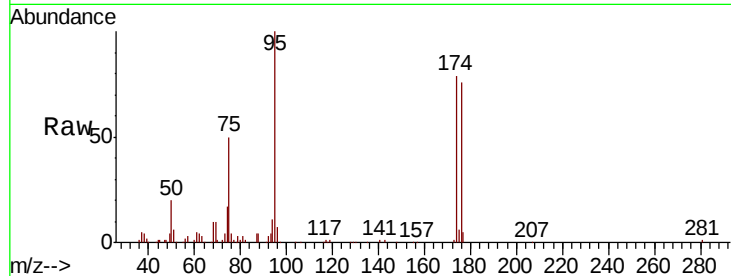
Tot Ion: 95 Resp: 159639

Ion Ratio Lower Upper

95 100

174 77.9 0.0 157.6

176 74.7 0.0 150.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

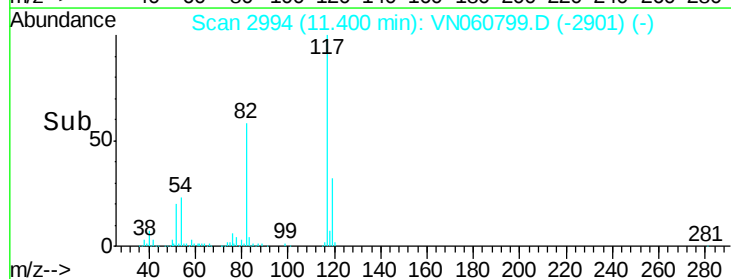
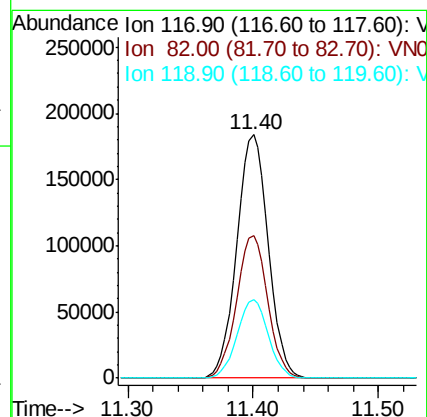
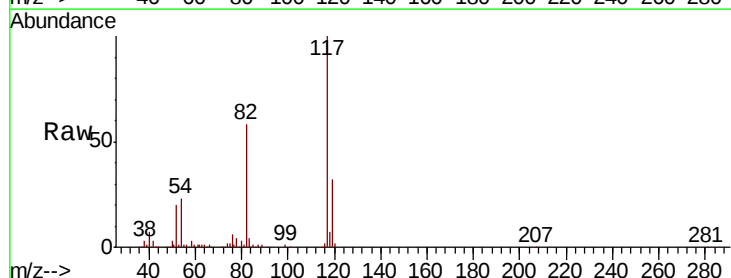
Tgt Ion: 117 Resp: 320464

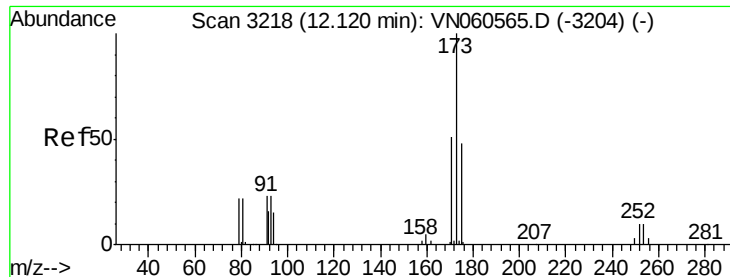
Ion Ratio Lower Upper

117 100

82 58.4 46.7 70.1

119 32.3 25.5 38.3





#71

Bromoform

Concen: 1.984 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :

MSVOA\_N

ClientSampleId :

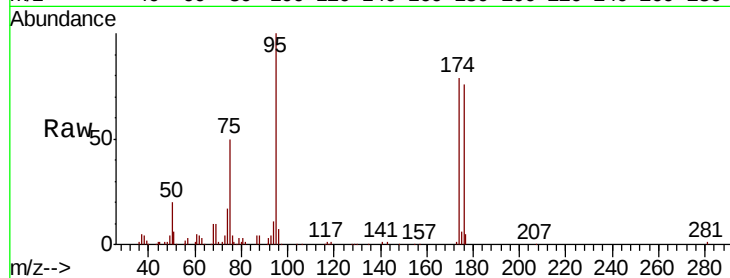
Tot Ion:173 Resp: 601

Ion Ratio Lower Upper

173 100

175 1312.3 24.1 72.4#

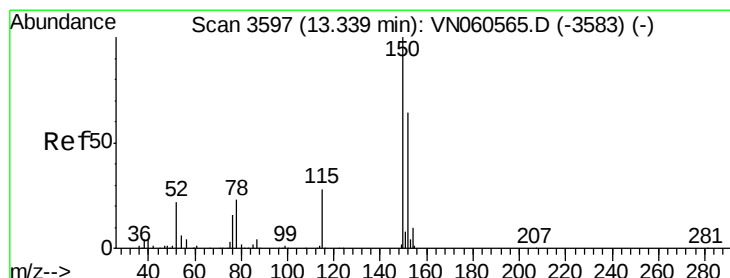
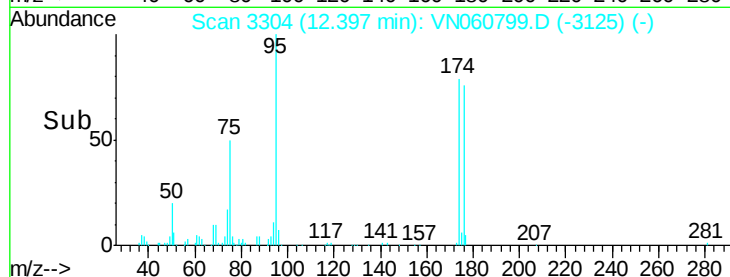
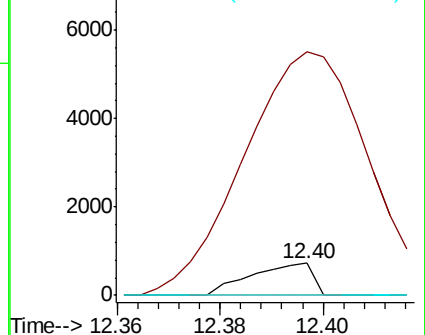
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

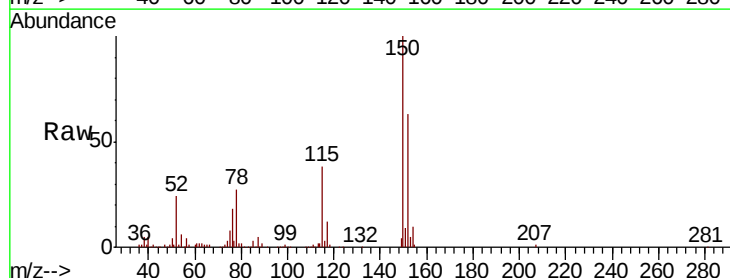
Tgt Ion:152 Resp: 148267

Ion Ratio Lower Upper

152 100

115 59.2 30.2 90.6

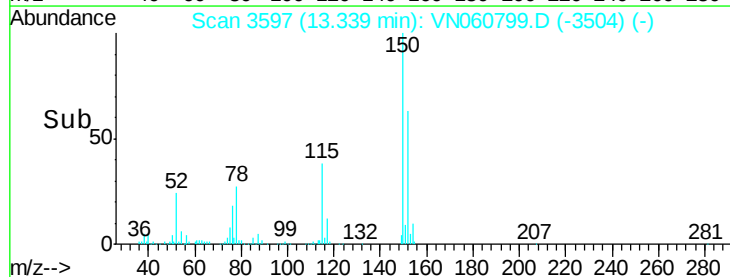
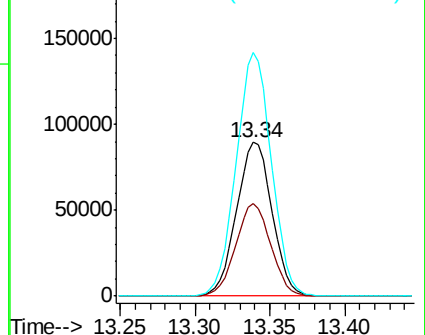
150 156.7 0.0 350.2

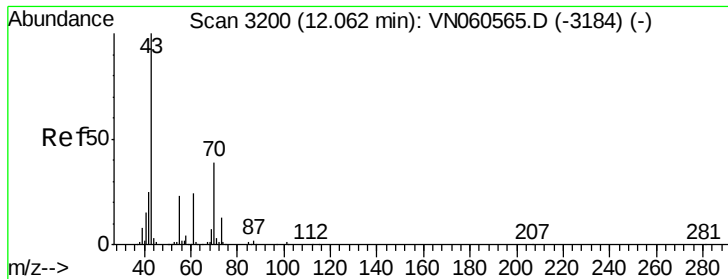


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.651 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :

MSVOA\_N

ClientSampled :

Tot Ion: 43 Resp: 3349

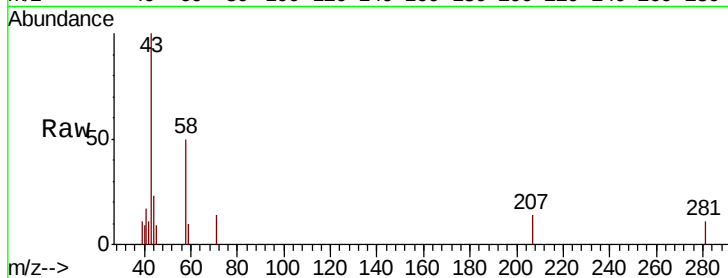
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

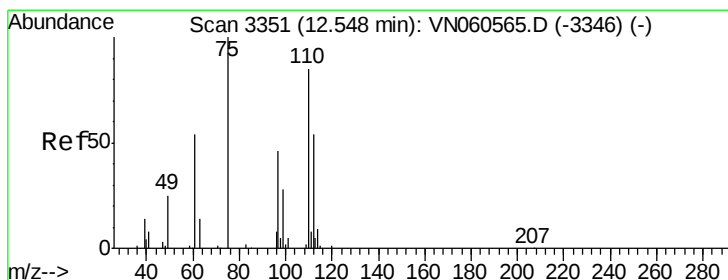
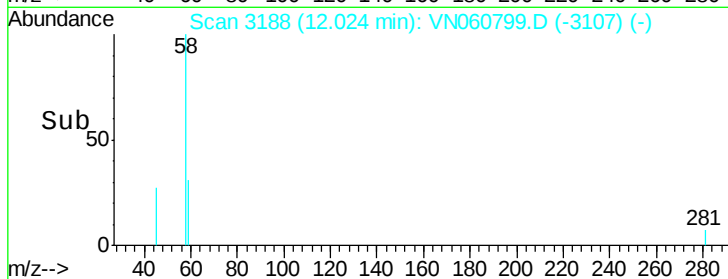
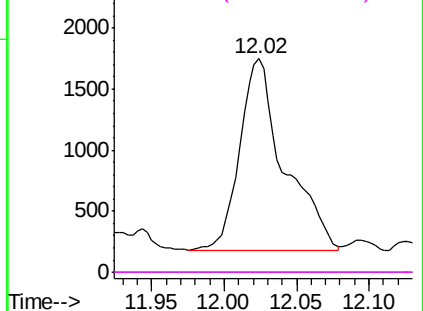


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 24.889 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060799.D

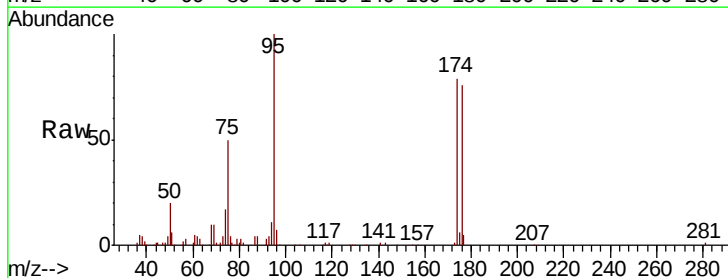
Acq: 31 Mar 2020 20:15

Tgt Ion: 75 Resp: 79628

Ion Ratio Lower Upper

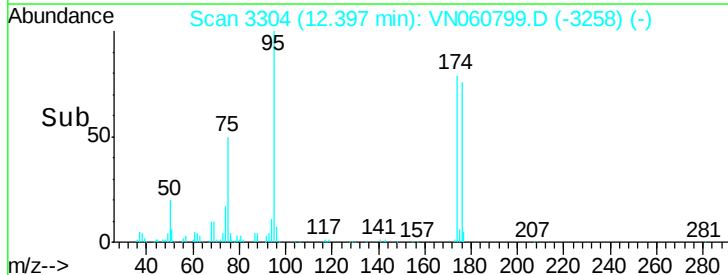
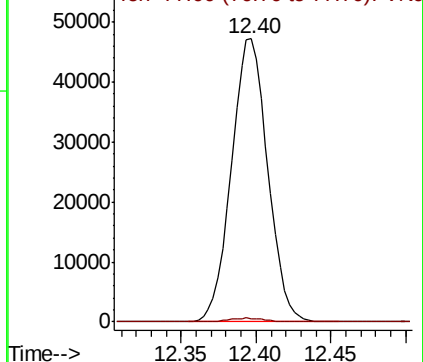
75 100

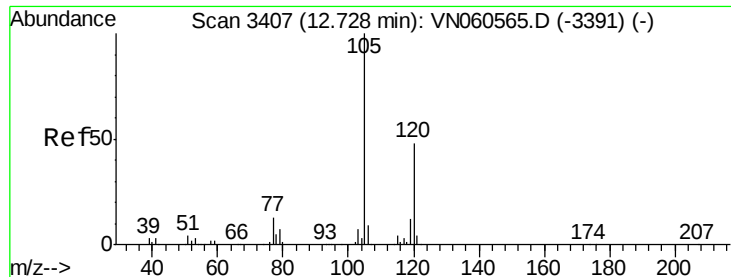
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.382 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

Instrument :

MSVOA\_N

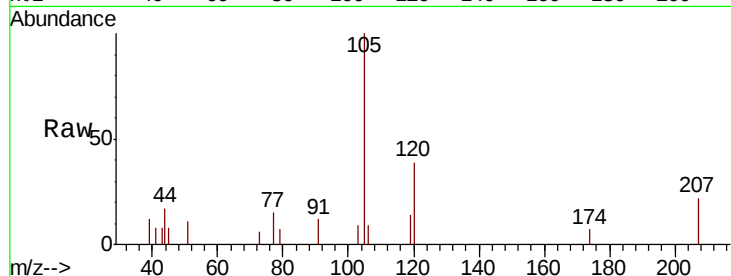
ClientSampled :

Tot Ion:105 Resp: 3603

Ion Ratio Lower Upper

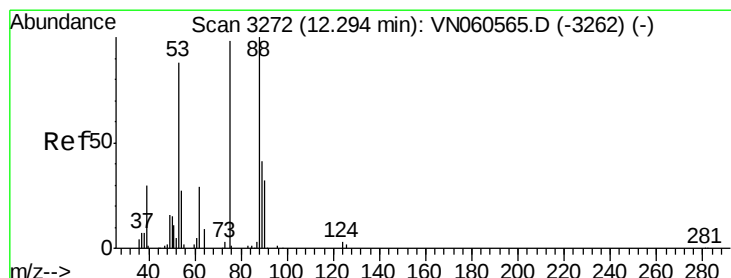
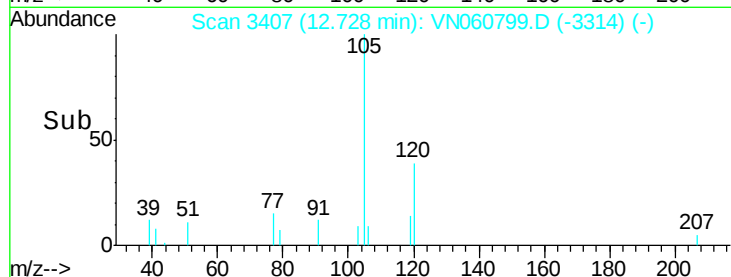
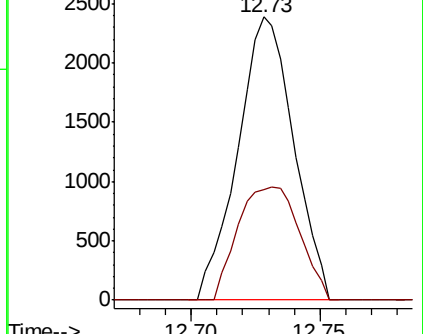
105 100

120 44.4 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 63.923 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060799.D

Acq: 31 Mar 2020 20:15

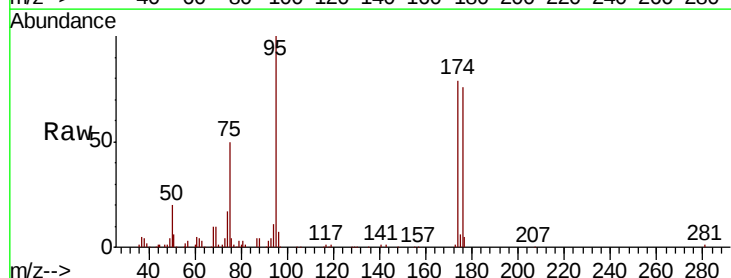
Tgt Ion: 75 Resp: 79628

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

