

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\  
 Data File : VN058831.D  
 Acq On : 17 Oct 2019 16:36  
 Operator : JC/SP  
 Sample : K5393-12  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 18 01:29:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 12 00:00:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 366367   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 591385   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 534047   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 201974   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 271678   | 52.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.94% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 193142   | 52.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.74% |          |
| 50) Toluene-d8              | 10.09 | 98   | 748338   | 51.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 102.46% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 236511   | 42.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 85.54%  |          |

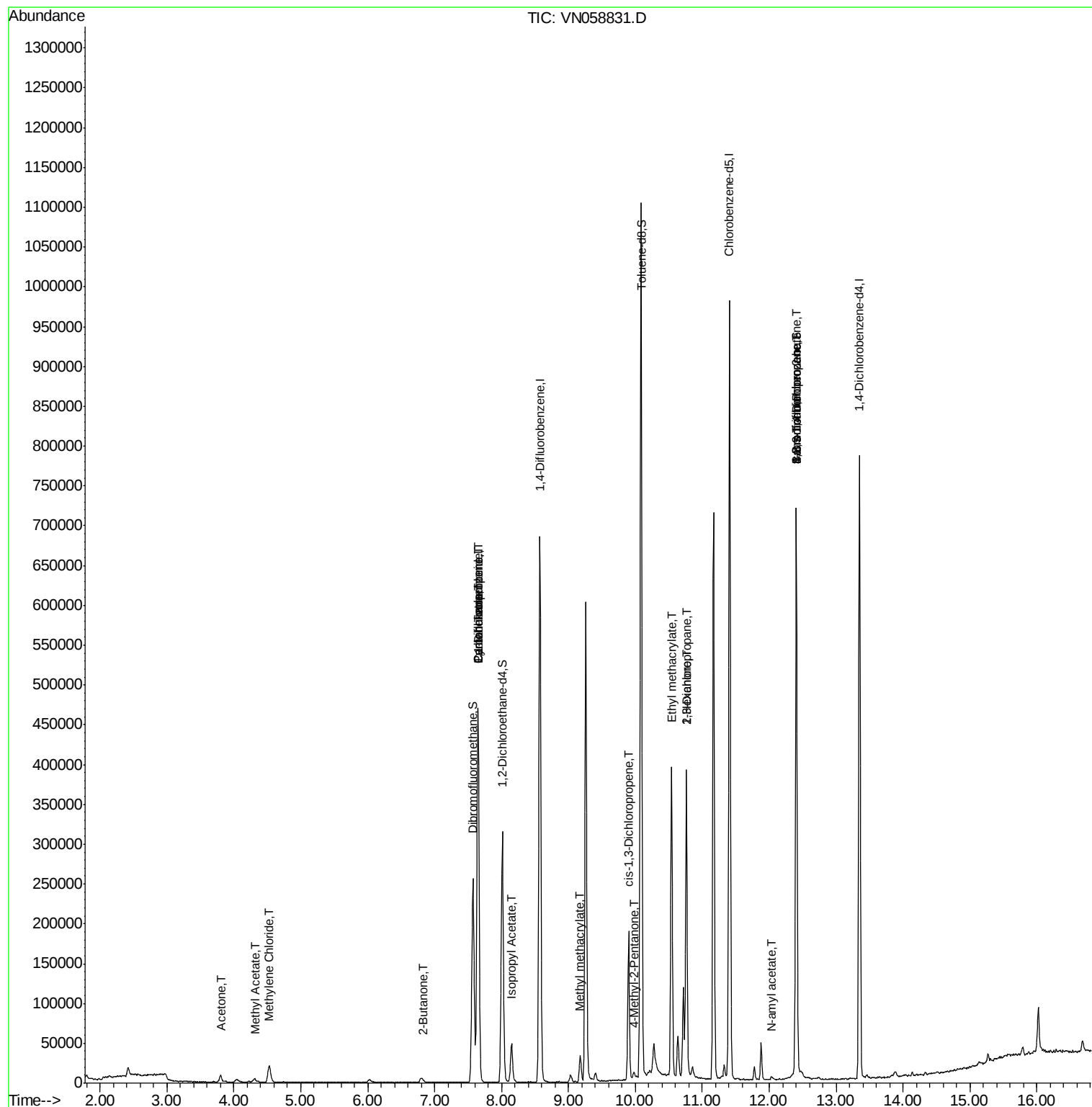
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.80  | 43   | 15331    | 7.220  | ug/l   | 100    |
| 18) Methyl Acetate             | 4.31  | 43   | 7050     | 1.309  | ug/l # | 88     |
| 20) Methylene Chloride         | 4.53  | 84   | 15490    | 3.490  | ug/l   | 97     |
| 25) 2-Butanone                 | 6.83  | 43   | 2119     | 0.690  | ug/l # | 50     |
| 31) Cyclohexane                | 7.64  | 56   | 8386     | 1.115  | ug/l # | 16     |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 32805    | 5.486  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.65  | 117  | 36920    | 6.336  | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.15  | 43   | 56539    | 5.488  | ug/l # | 91     |
| 48) Methyl methacrylate        | 9.17  | 41   | 4763     | 1.020  | ug/l # | 14     |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 5527     | 0.955  | ug/l   | 94     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75   | 31305    | 4.331  | ug/l # | 68     |
| 56) Ethyl methacrylate         | 10.54 | 69   | 1670     | 0.266  | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.76 | 76   | 3918     | 0.535  | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.76 | 43   | 58690    | 13.127 | ug/l # | 54     |
| 71) Bromoform                  | 12.40 | 173  | 1503     | 0.511  | ug/l # | 1      |
| 74) N-amyl acetate             | 12.03 | 43   | 3219     | 0.490  | ug/l # | 47     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 127536   | 28.784 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 127536   | 77.103 | ug/l # | 11     |

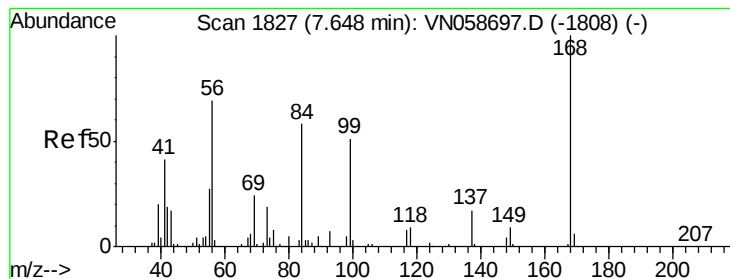
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN101719\  
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Sample : K5393-12  
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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Oct 18 01:29:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N101319W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 12 00:00:30 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

Instrument :

MSVOA\_N

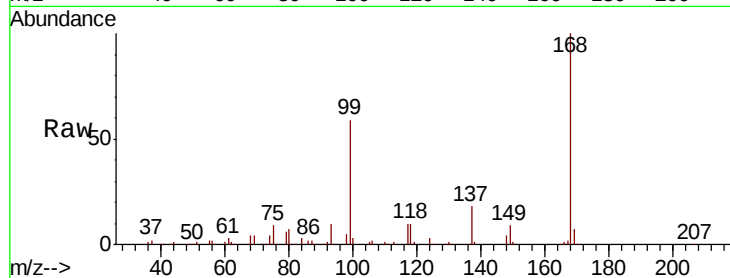
ClientSampled :

Tot Ion:168 Resp: 366367

Ion Ratio Lower Upper

168 100

99 59.2 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

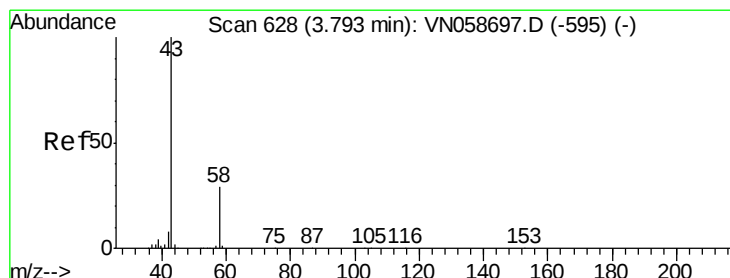
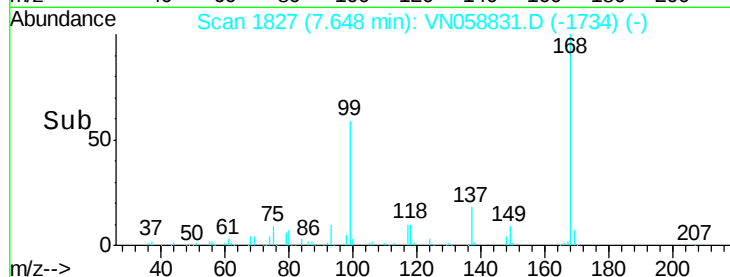
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 7.220 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058831.D

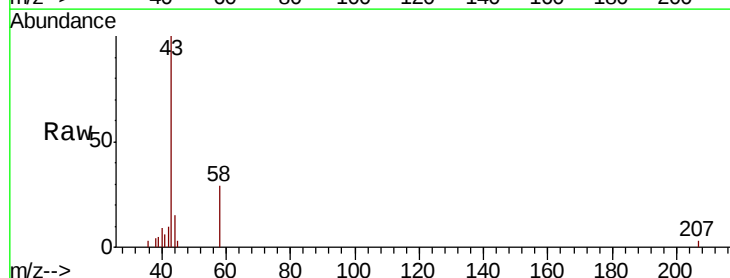
Acq: 17 Oct 2019 16:36

Tgt Ion: 43 Resp: 15331

Ion Ratio Lower Upper

43 100

58 28.9 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.80

6000

5000

4000

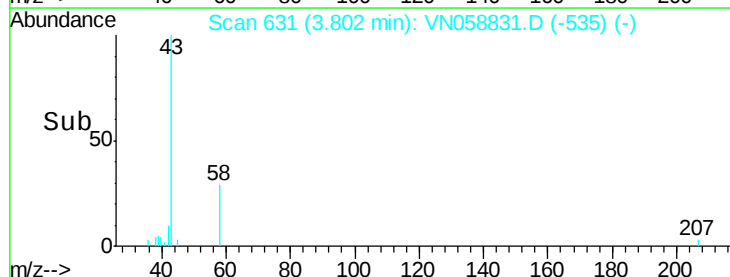
3000

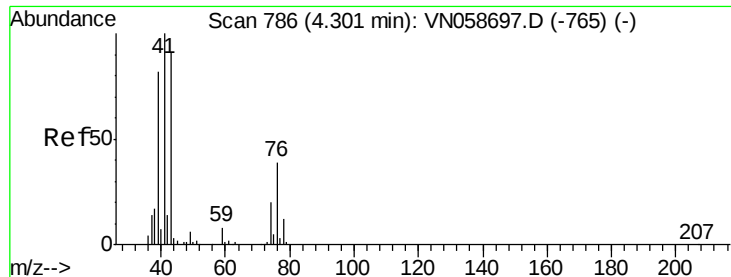
2000

1000

0

Time-->

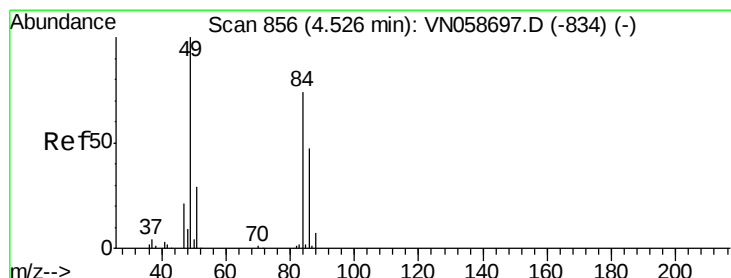
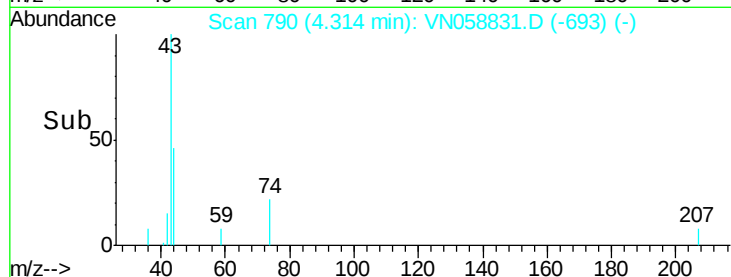
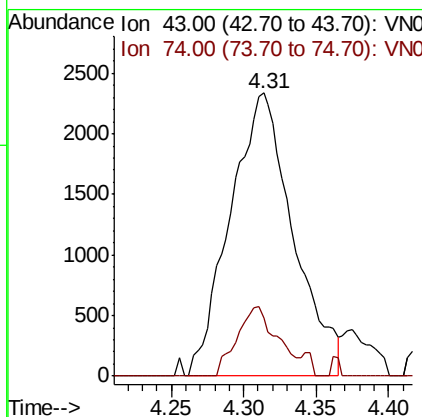
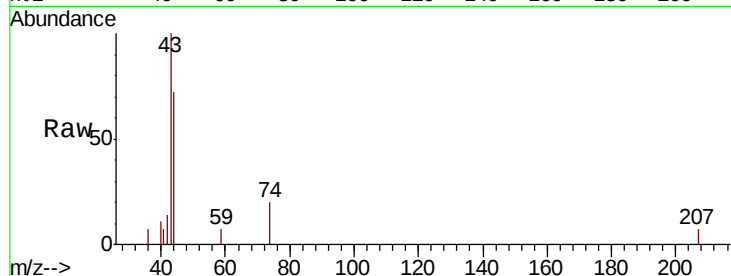




#18  
Methyl Acetate  
Concen: 1.309 ug/l  
RT: 4.31 min Scan# 790  
Delta R.T. 0.01 min  
Lab File: VN058831.D  
Acq: 17 Oct 2019 16:36

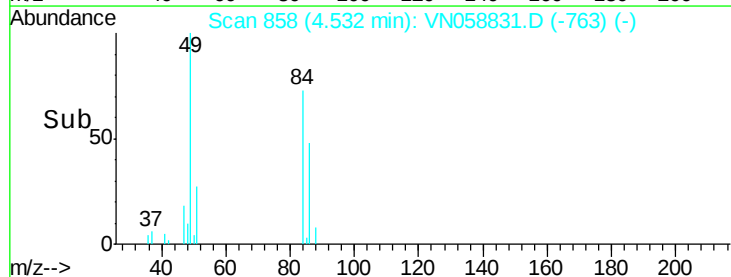
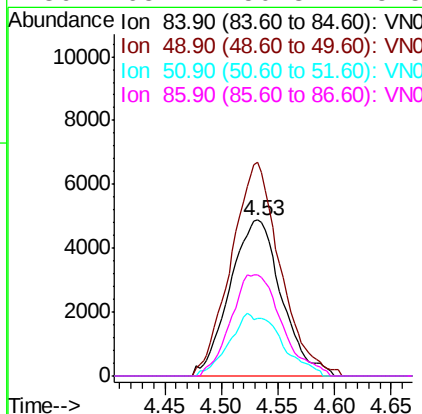
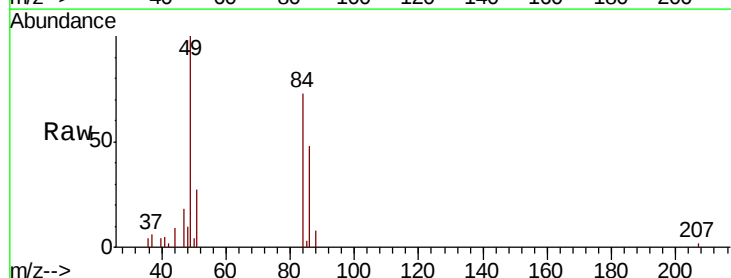
Instrument :  
MSVOA\_N  
ClientSampled :

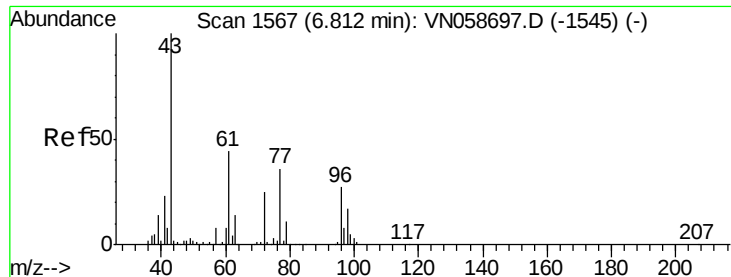
Tot Ion: 43 Resp: 7050  
Ion Ratio Lower Upper  
43 100  
74 15.9 17.2 25.8#



#20  
Methylene Chloride  
Concen: 3.490 ug/l  
RT: 4.53 min Scan# 858  
Delta R.T. 0.01 min  
Lab File: VN058831.D  
Acq: 17 Oct 2019 16:36

Tgt Ion: 84 Resp: 15490  
Ion Ratio Lower Upper  
84 100  
49 137.3 107.6 161.4  
51 36.7 31.4 47.0  
86 65.4 50.3 75.5





#25

2-Butanone

Concen: 0.690 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

Instrument :

MSVOA\_N

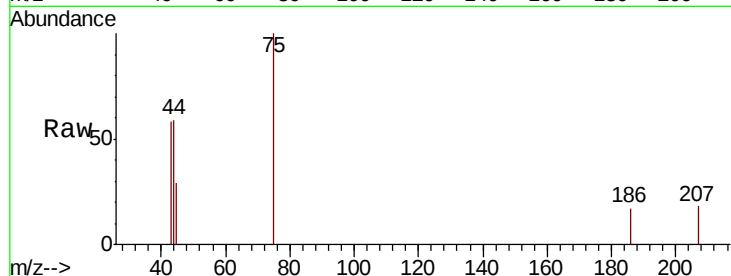
ClientSampleId :

Tot Ion: 43 Resp: 2119

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.83

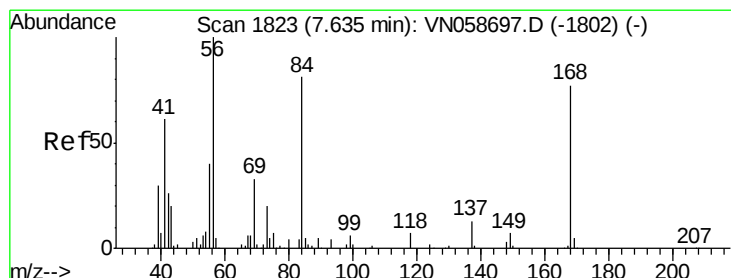
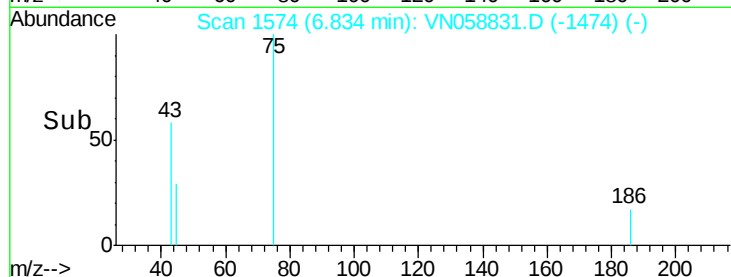
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 1.115 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

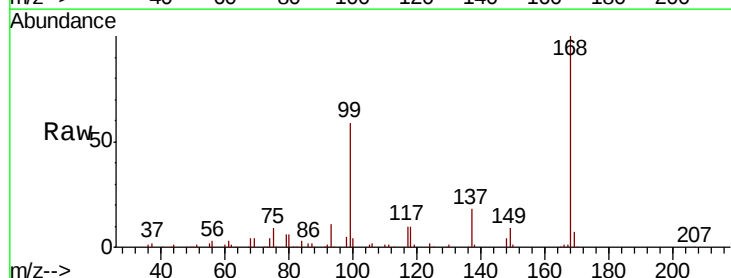
Tgt Ion: 56 Resp: 8386

Ion Ratio Lower Upper

56 100

69 159.4 26.2 39.4#

84 105.7 64.9 97.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

8000

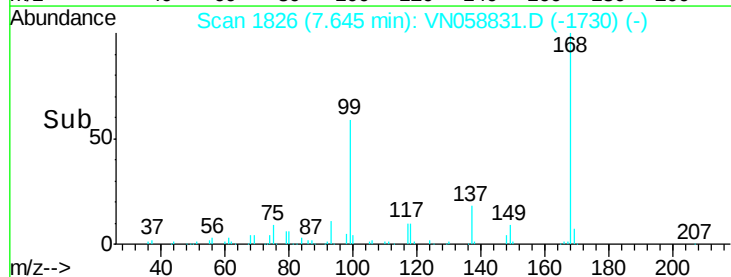
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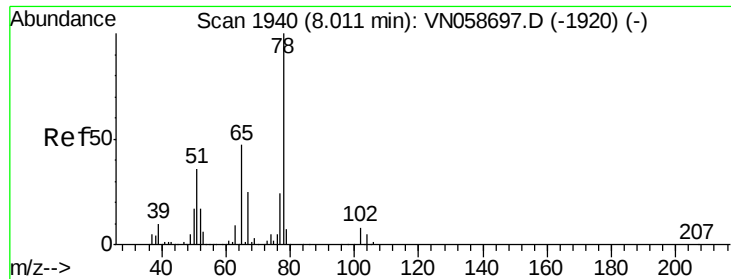
4000

2000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 52.968 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

Instrument :

MSVOA\_N

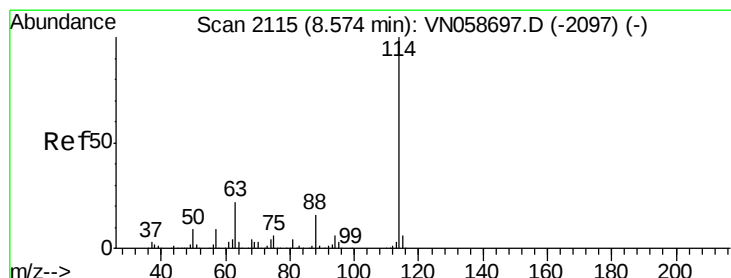
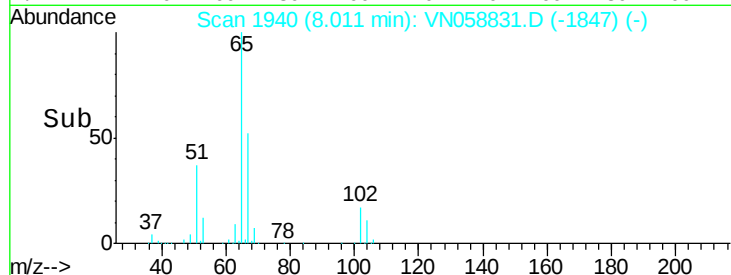
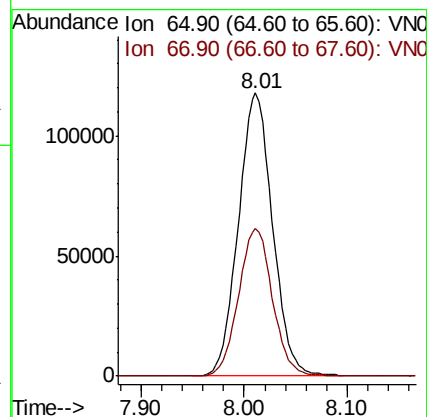
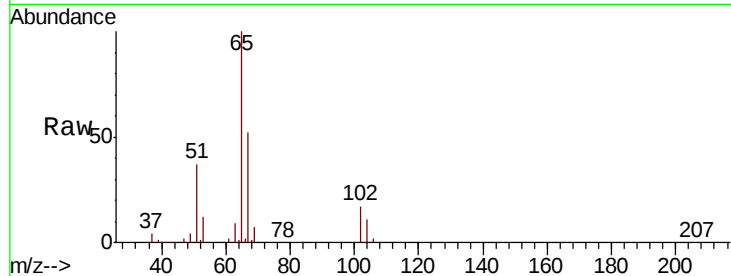
ClientSampled :

Tot Ion: 65 Resp: 271678

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

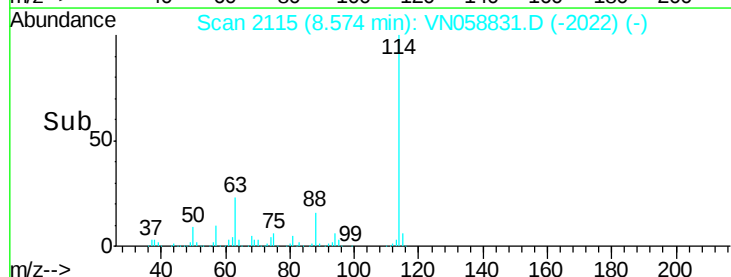
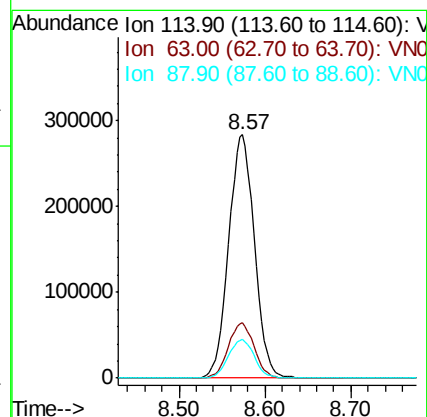
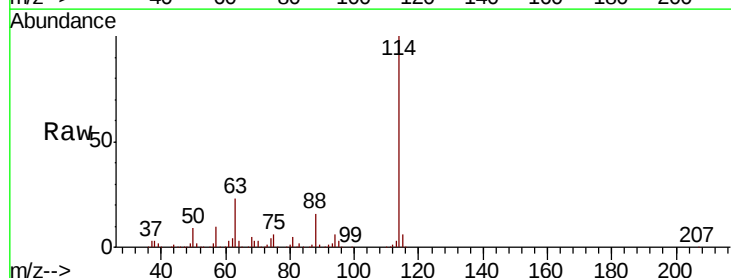
Tgt Ion: 114 Resp: 591385

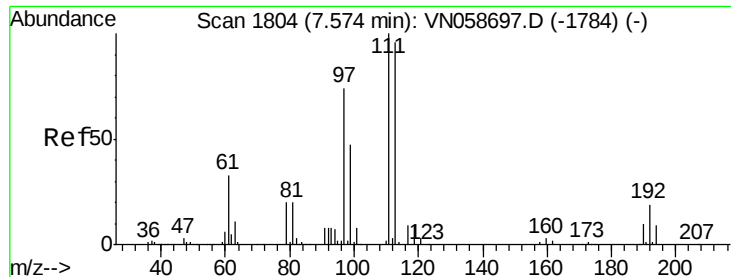
Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.8

88 15.7 0.0 32.0

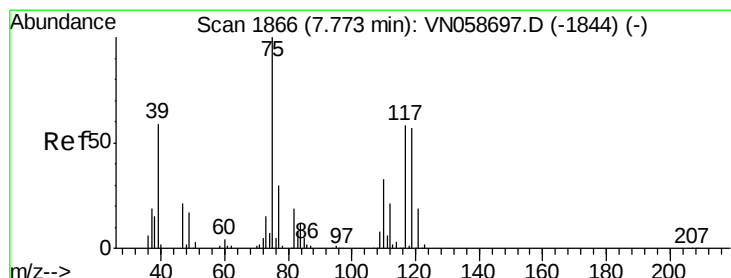
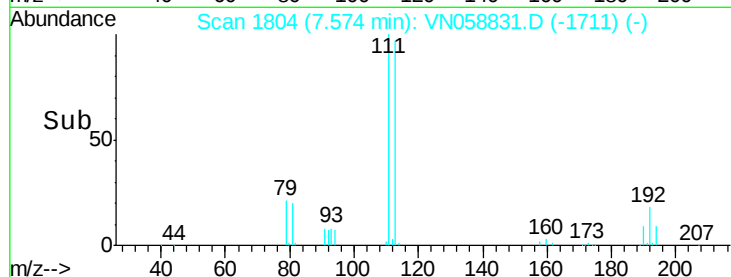
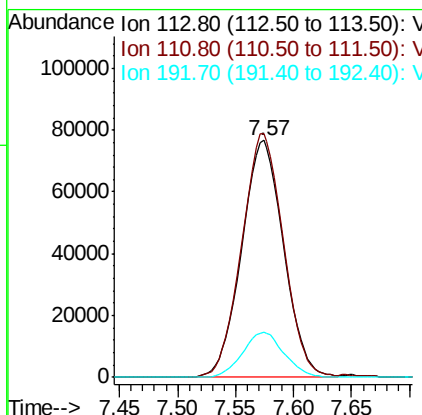
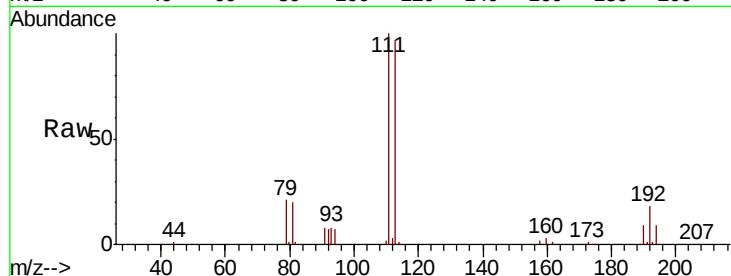




#35  
 Dibromofluoromethane  
 Concen: 52.874 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. 0.00 min  
 Lab File: VN058831.D  
 Acq: 17 Oct 2019 16:36

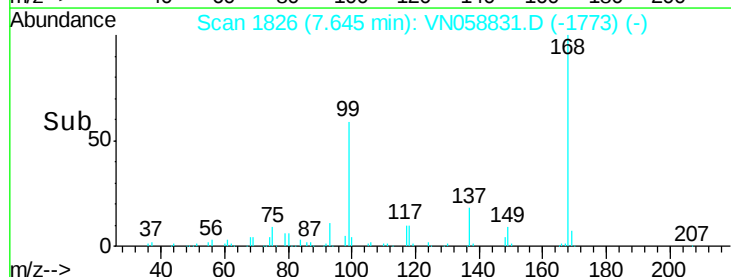
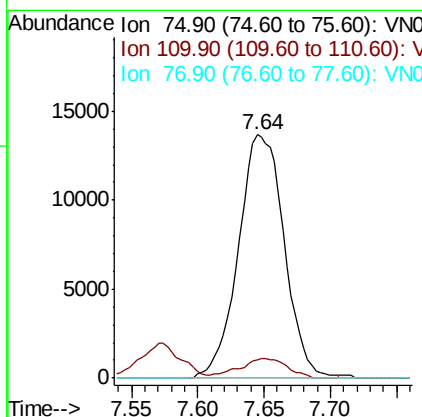
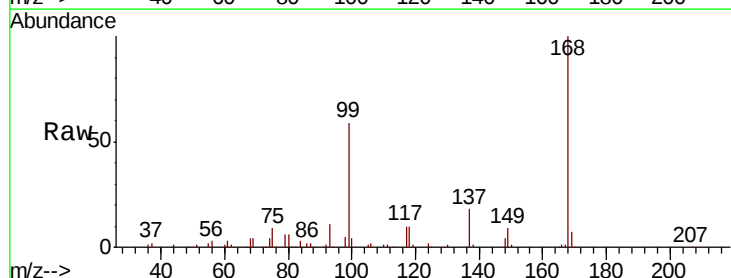
Instrument :  
 MSVOA\_N  
 ClientSampled :

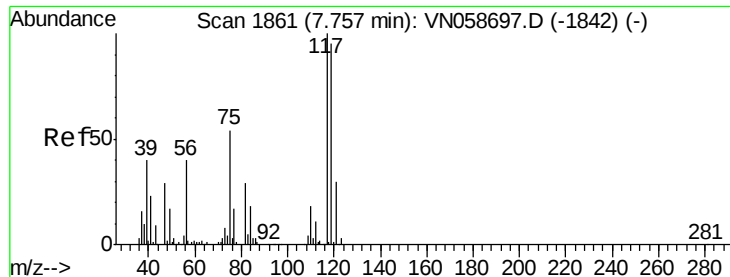
Tot Ion:113 Resp: 193142  
 Ion Ratio Lower Upper  
 113 100  
 111 102.3 82.3 123.5  
 192 18.8 15.0 22.6



#36  
 1,1-Dichloropropene  
 Concen: 5.486 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.13 min  
 Lab File: VN058831.D  
 Acq: 17 Oct 2019 16:36

Tgt Ion: 75 Resp: 32805  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 16.6 49.8#  
 77 0.0 24.6 37.0#

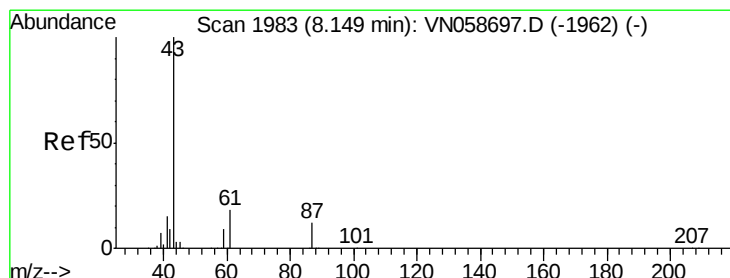
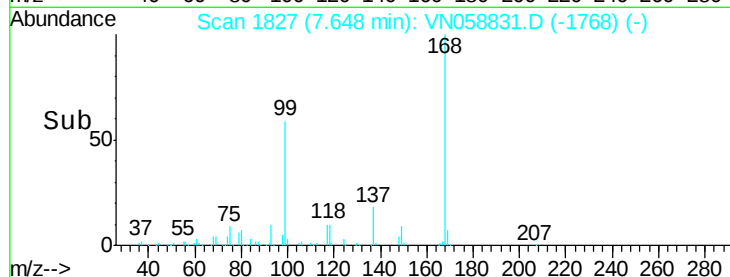
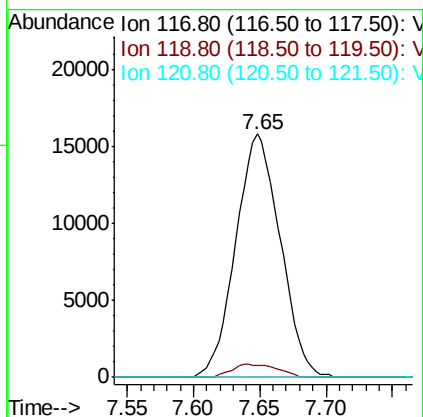
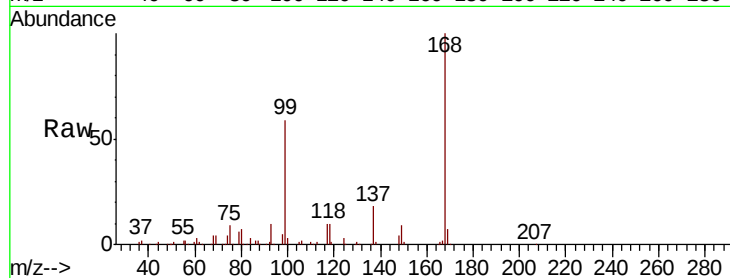




#38  
Carbon Tetrachloride  
Concen: 6.336 ug/l  
RT: 7.65 min Scan# 1827  
Delta R.T. -0.11 min  
Lab File: VN058831.D  
Acq: 17 Oct 2019 16:36

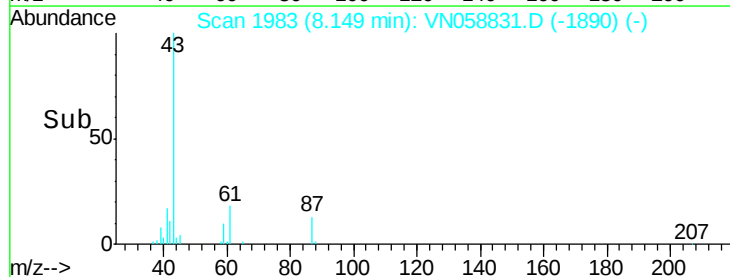
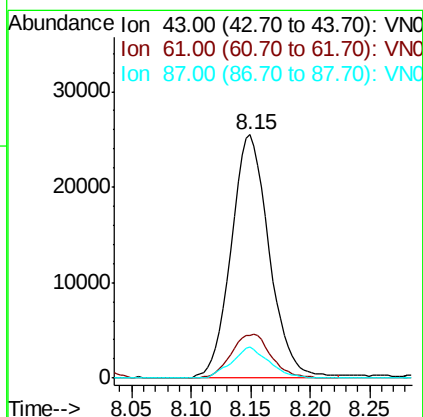
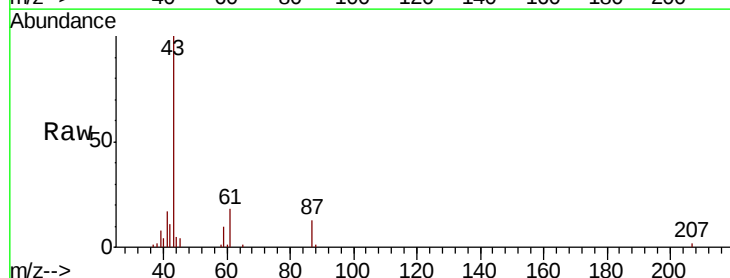
Instrument :  
MSVOA\_N  
ClientSampled :

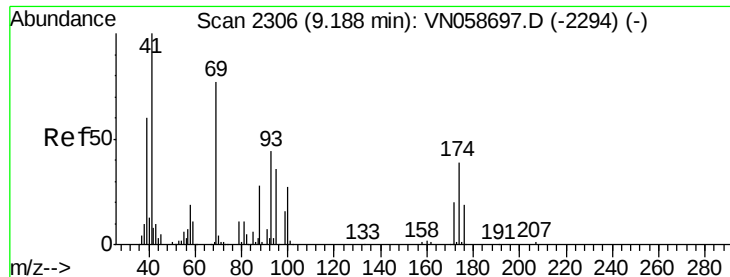
Tot Ion:117 Resp: 36920  
Ion Ratio Lower Upper  
117 100  
119 4.9 75.7 113.5#  
121 0.0 23.9 35.9#



#43  
Isopropyl Acetate  
Concen: 5.488 ug/l  
RT: 8.15 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VN058831.D  
Acq: 17 Oct 2019 16:36

Tgt Ion: 43 Resp: 56539  
Ion Ratio Lower Upper  
43 100  
61 18.7 20.3 30.5#  
87 12.2 9.8 14.6

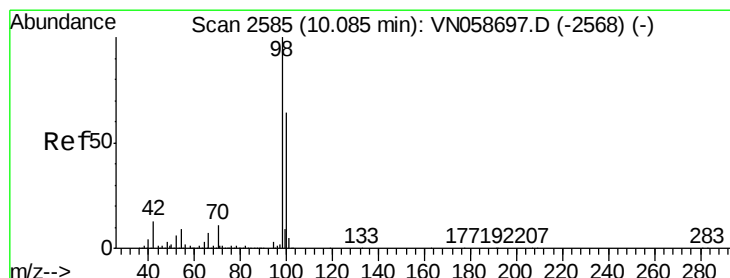
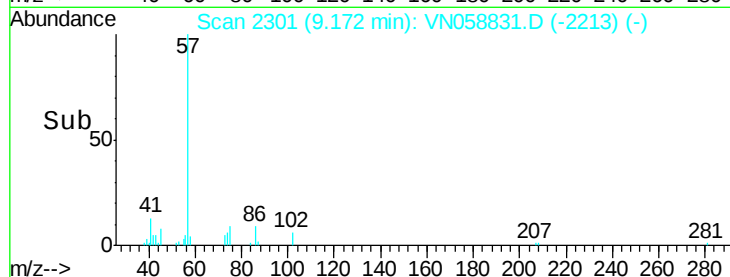
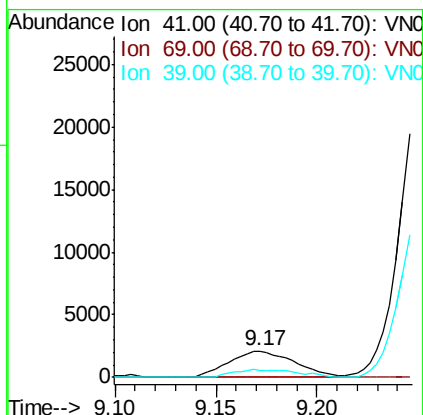
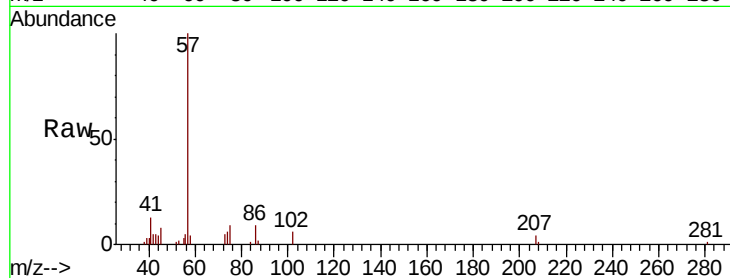




#48  
Methvl methacrvlate  
Concen: 1.020 ug/l  
RT: 9.17 min Scan# 2301  
Delta R.T. -0.02 min  
Lab File: VN058831.D  
Acq: 17 Oct 2019 16:36

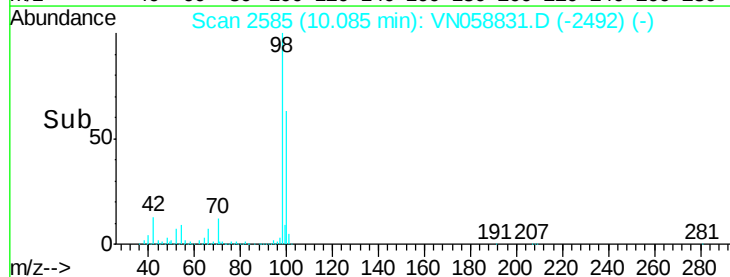
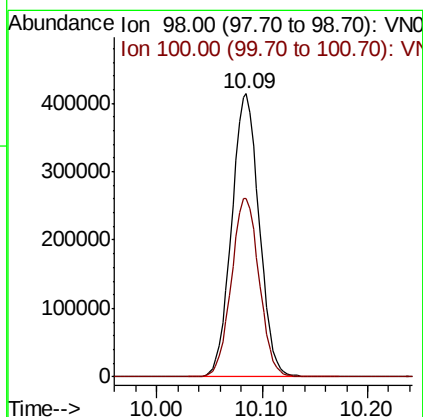
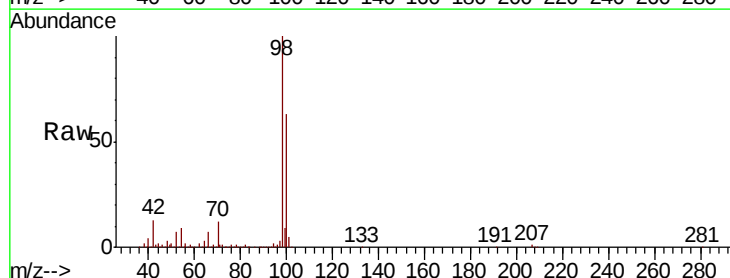
Instrument :  
MSVOA\_N  
ClientSampled :

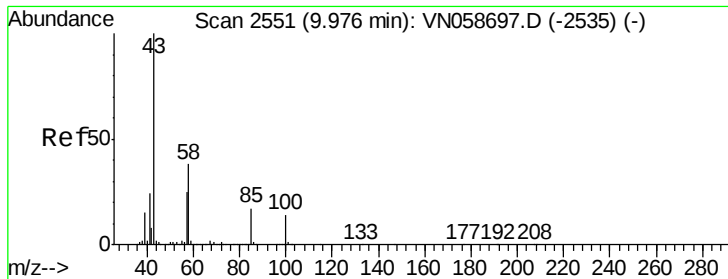
Tot Ion: 41 Resp: 4763  
Ion Ratio Lower Upper  
41 100  
69 0.0 63.4 95.2#  
39 0.0 48.9 73.3#



#50  
Toluene-d8  
Concen: 51.230 ug/l  
RT: 10.09 min Scan# 2585  
Delta R.T. 0.00 min  
Lab File: VN058831.D  
Acq: 17 Oct 2019 16:36

Tgt Ion: 98 Resp: 748338  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.955 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

Instrument :

MSVOA\_N

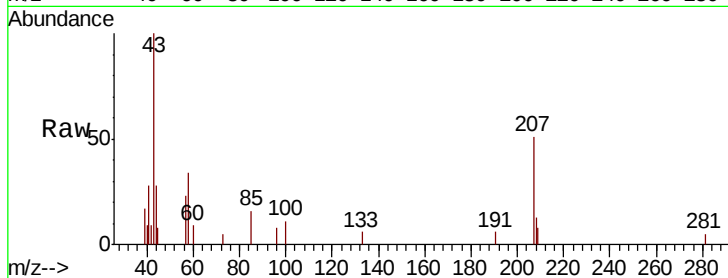
ClientSampled :

Tot Ion: 43 Resp: 5527

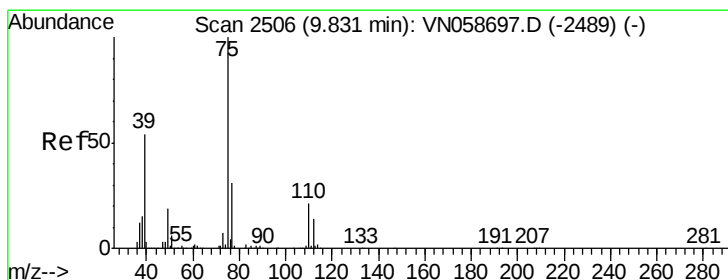
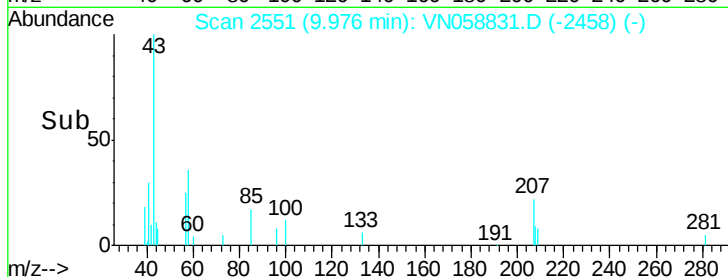
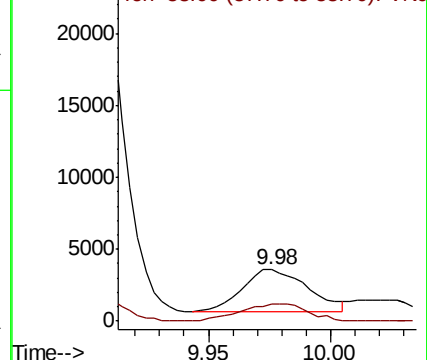
Ion Ratio Lower Upper

43 100

58 41.3 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VNO  
Ion 58.00 (57.70 to 58.70): VNO



#54

cis-1,3-Dichloropropene

Concen: 4.331 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

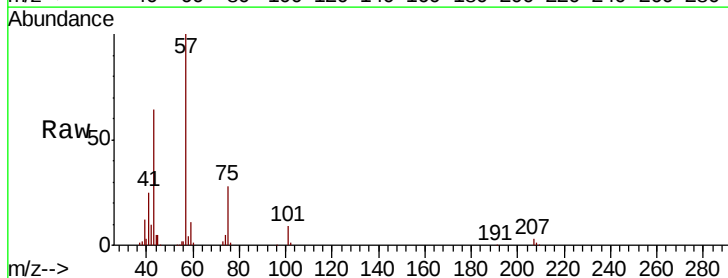
Tgt Ion: 75 Resp: 31305

Ion Ratio Lower Upper

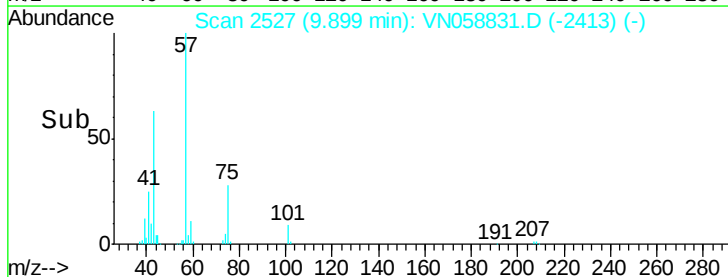
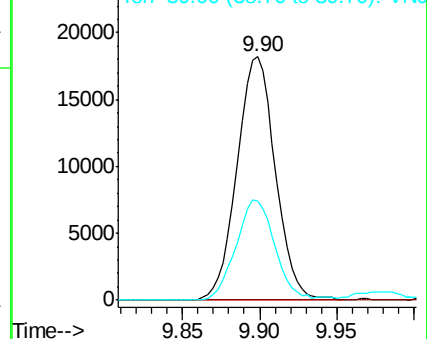
75 100

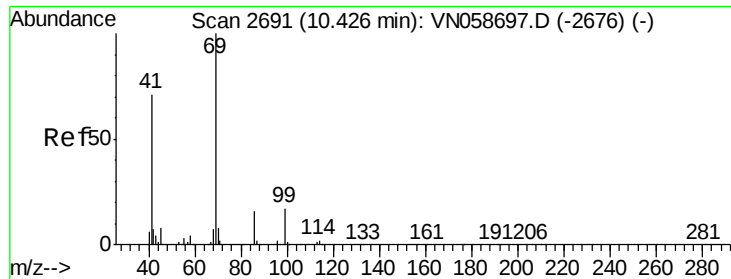
77 0.0 24.4 36.6#

39 40.9 43.1 64.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO  
Ion 76.90 (76.60 to 77.60): VNO  
Ion 39.00 (38.70 to 39.70): VNO





#56

Ethyl methacrylate

Concen: 0.266 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

Instrument :

MSVOA\_N

ClientSampleId :

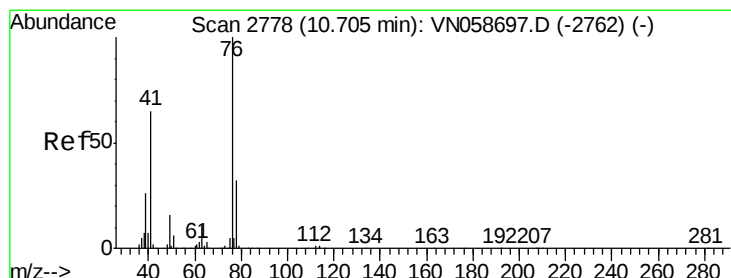
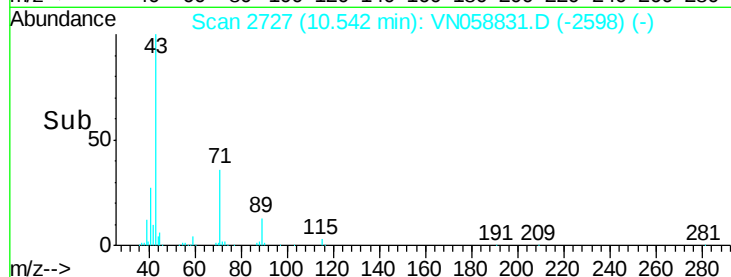
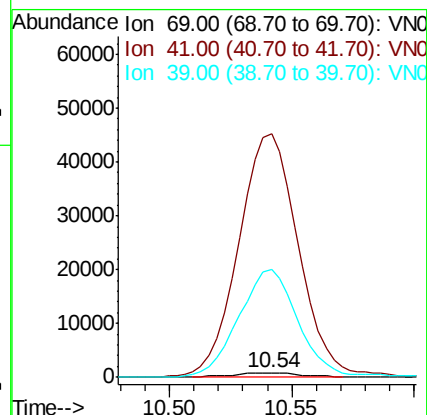
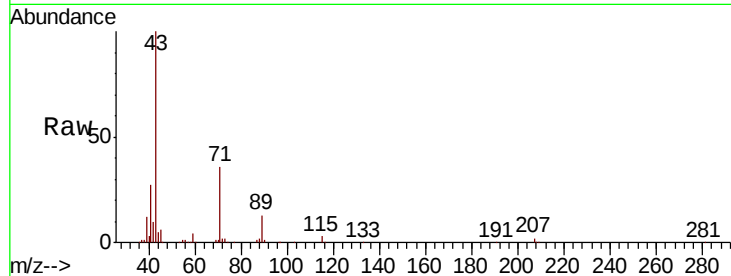
Tot Ion: 69 Resp: 1670

Ion Ratio Lower Upper

69 100

41 4566.3 56.8 85.2#

39 2048.1 32.5 48.7#



#57

1,3-Dichloropropane

Concen: 0.535 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058831.D

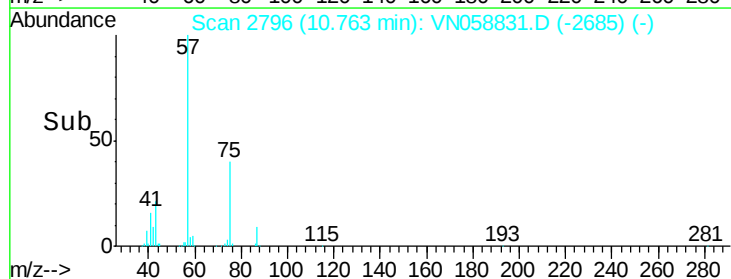
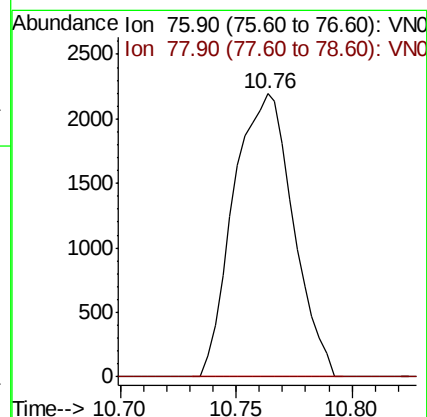
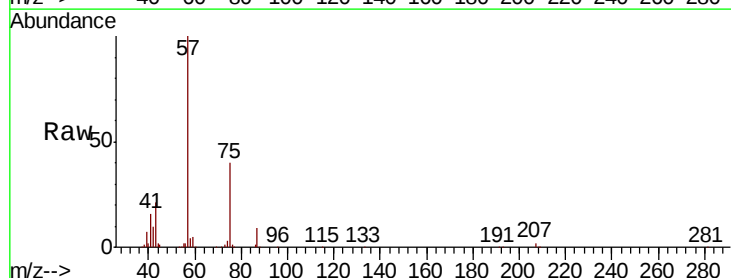
Acq: 17 Oct 2019 16:36

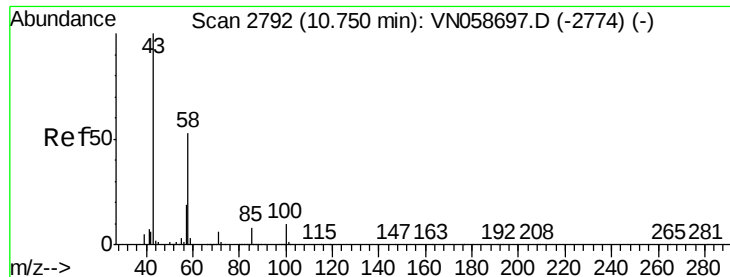
Tgt Ion: 76 Resp: 3918

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#

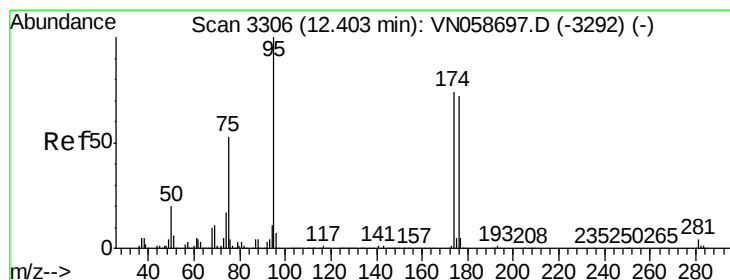
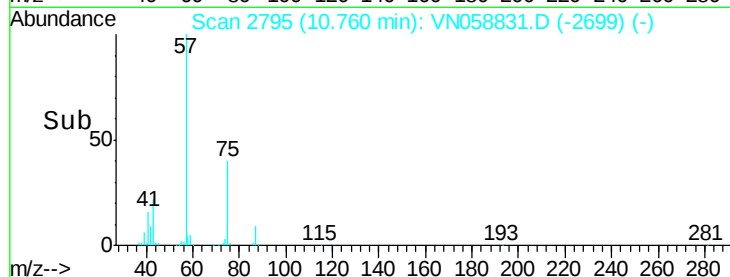
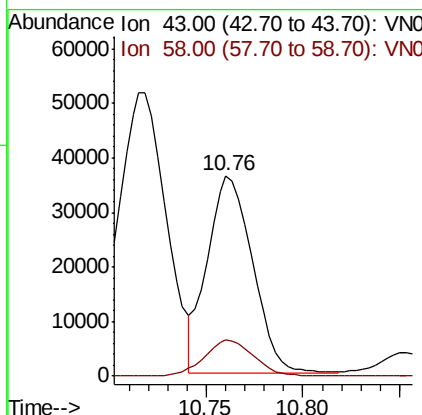
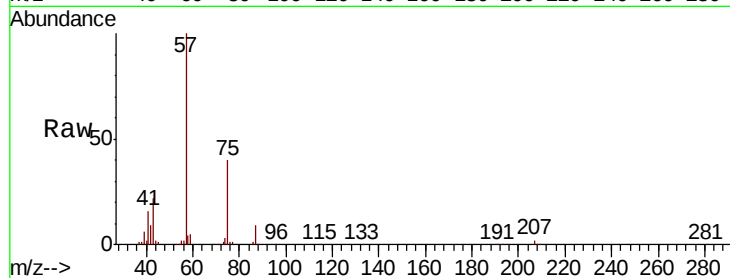




#59  
2-Hexanone  
Concen: 13.127 ug/l  
RT: 10.76 min Scan# 2795  
Delta R.T. 0.01 min  
Lab File: VN058831.D  
Acq: 17 Oct 2019 16:36

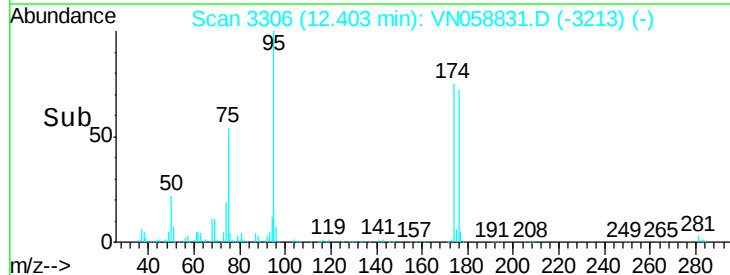
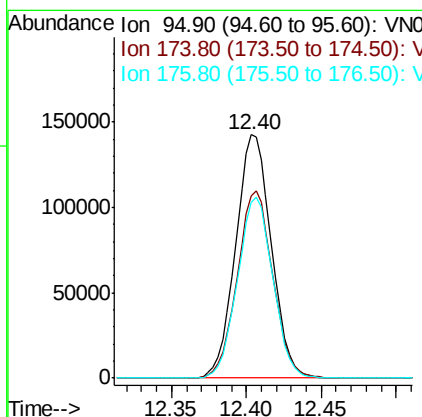
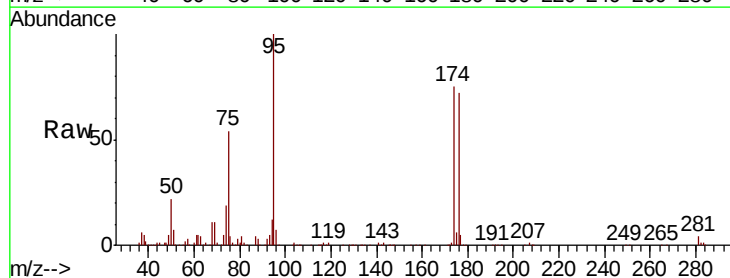
Instrument :  
MSVOA\_N  
ClientSampleId :

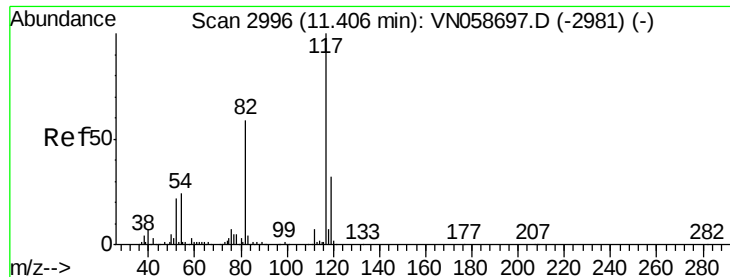
Tot Ion: 43 Resp: 58690  
Ion Ratio Lower Upper  
43 100  
58 19.9 26.1 78.3#



#62  
4-Bromofluorobenzene  
Concen: 42.774 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN058831.D  
Acq: 17 Oct 2019 16:36

Tgt Ion: 95 Resp: 236511  
Ion Ratio Lower Upper  
95 100  
174 77.0 0.0 150.4  
176 73.9 0.0 146.8

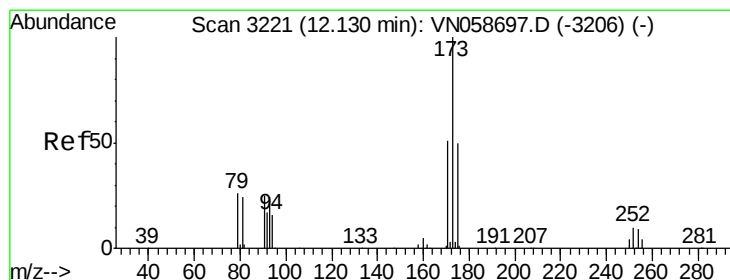
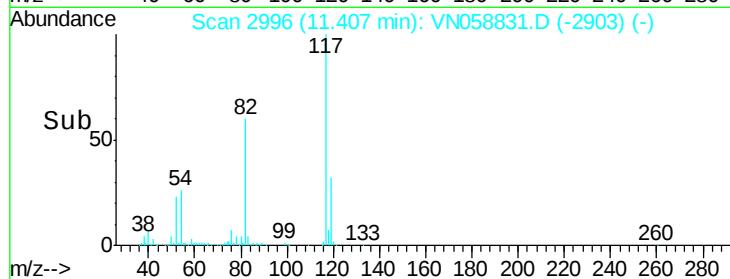
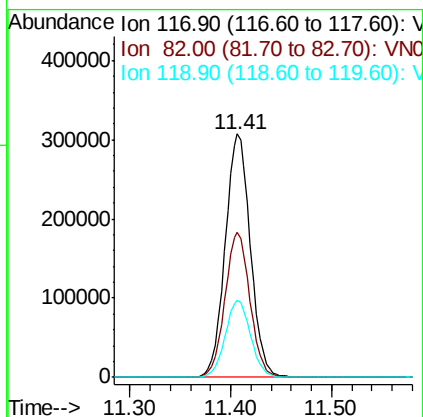
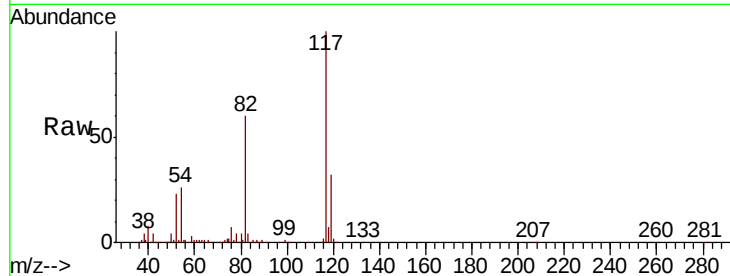




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.41 min Scan# 2996  
 Delta R.T. 0.00 min  
 Lab File: VN058831.D  
 Acq: 17 Oct 2019 16:36

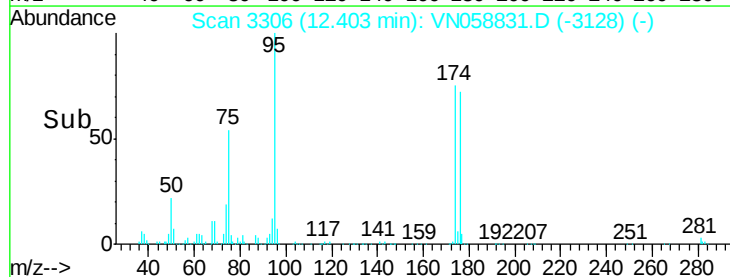
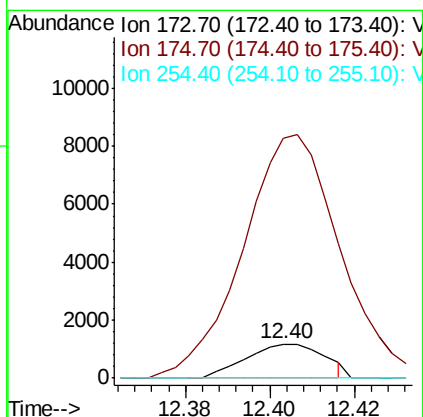
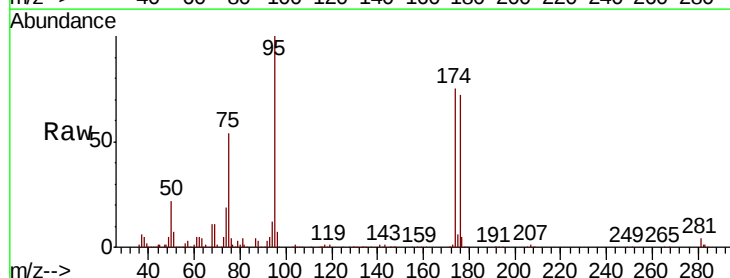
Instrument :  
 MSVOA\_N  
 ClientSampleId :

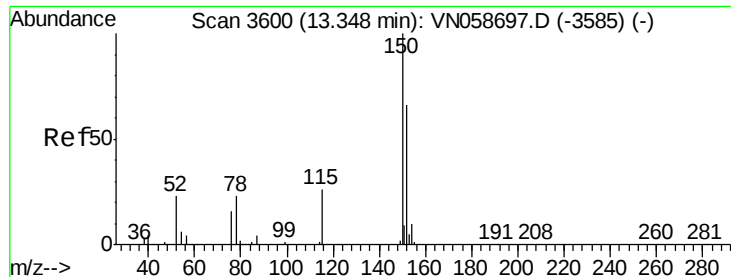
Tot Ion:117 Resp: 534047  
 Ion Ratio Lower Upper  
 117 100  
 82 59.7 47.0 70.4  
 119 31.8 25.4 38.2



#71  
 Bromoform  
 Concen: 0.511 ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.27 min  
 Lab File: VN058831.D  
 Acq: 17 Oct 2019 16:36

Tgt Ion:173 Resp: 1503  
 Ion Ratio Lower Upper  
 173 100  
 175 783.2 24.6 73.8#  
 254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

Instrument :

MSVOA\_N

ClientSampleId :

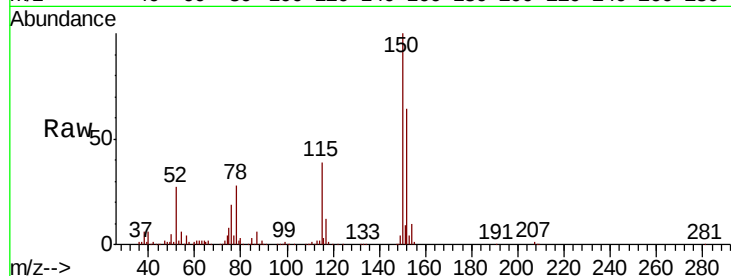
Tot Ion:152 Resp: 201974

Ion Ratio Lower Upper

152 100

115 59.9 30.4 91.2

150 155.3 0.0 345.4

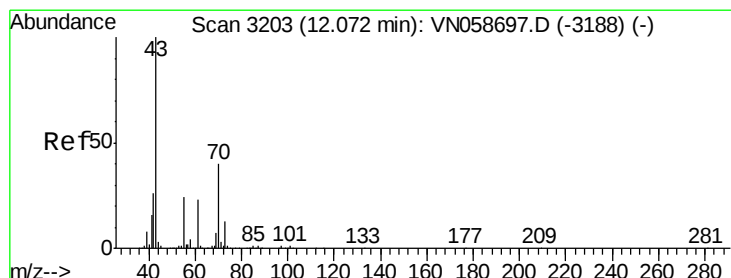
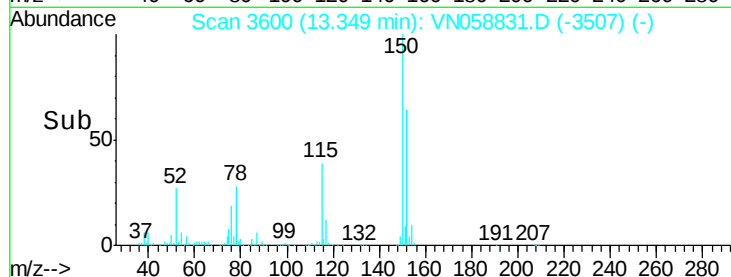
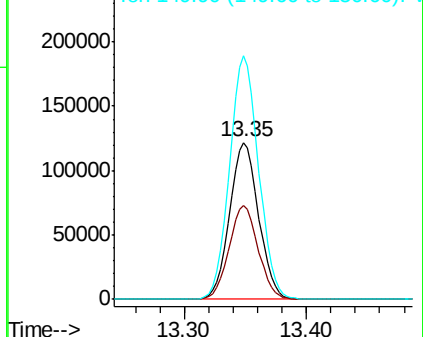


Abundance

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: 0.490 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

Tgt Ion: 43 Resp: 3219

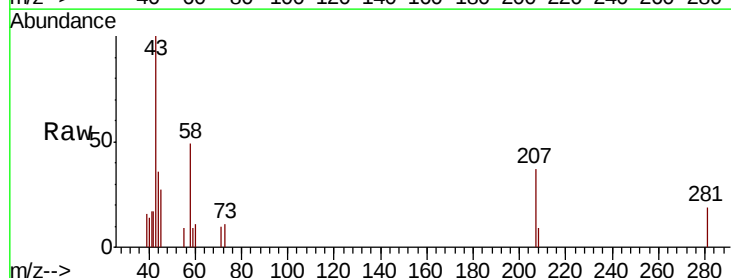
Ion Ratio Lower Upper

43 100

70 1.0 32.2 48.4#

55 4.3 19.6 29.4#

61 0.0 18.6 28.0#



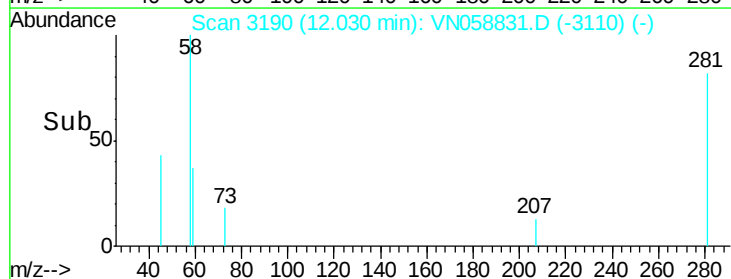
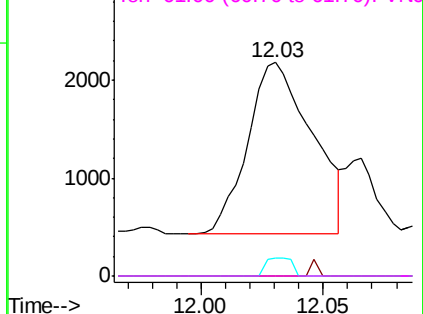
Abundance

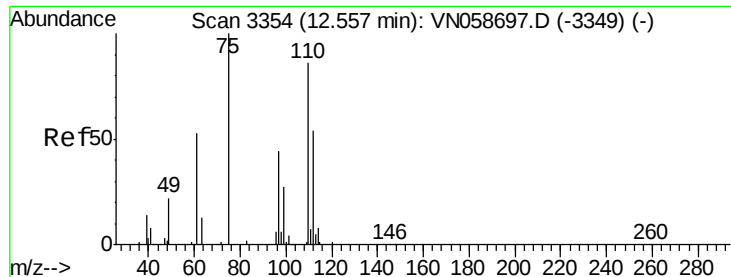
Ion 43.00 (42.70 to 43.70): V

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: 28.784 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

Instrument :

MSVOA\_N

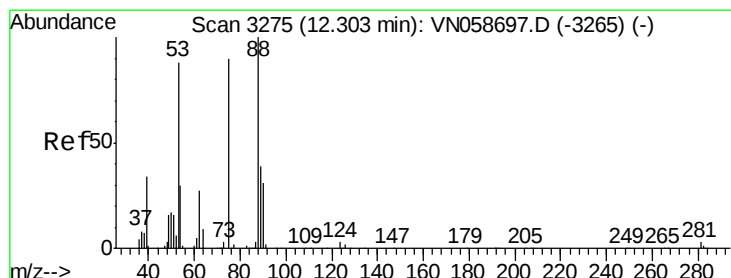
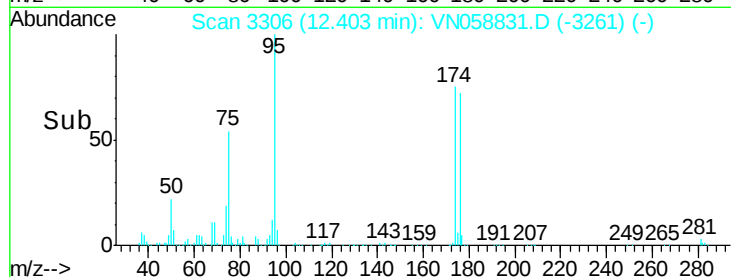
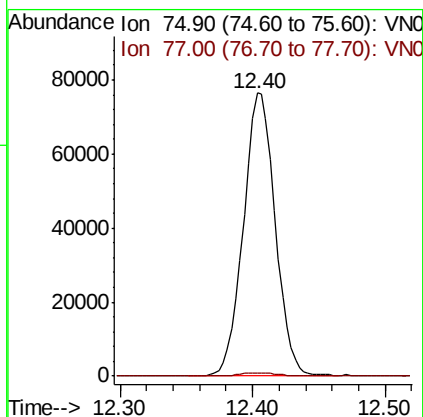
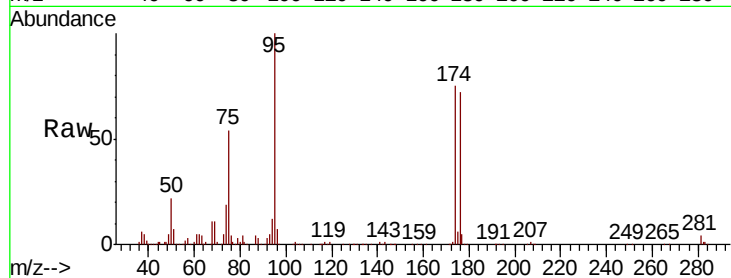
ClientSampleId :

Tot Ion: 75 Resp: 127536

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.103 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058831.D

Acq: 17 Oct 2019 16:36

Tgt Ion: 75 Resp: 127536

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.2 34.9 52.3#

