

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101918\  
 Data File : VN051942.D  
 Acq On : 19 Oct 2018 12:40  
 Operator : MD\SY  
 Sample : PB113937ZHE#03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB113937ZHE#03

Quant Time: Oct 19 23:07:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101718W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 19 05:11:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 961387   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1411790  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1258419  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 456120   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 534714   | 60.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 120.00% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 532467   | 59.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.68% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1956070  | 59.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 119.78% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 551844   | 50.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.24% |          |

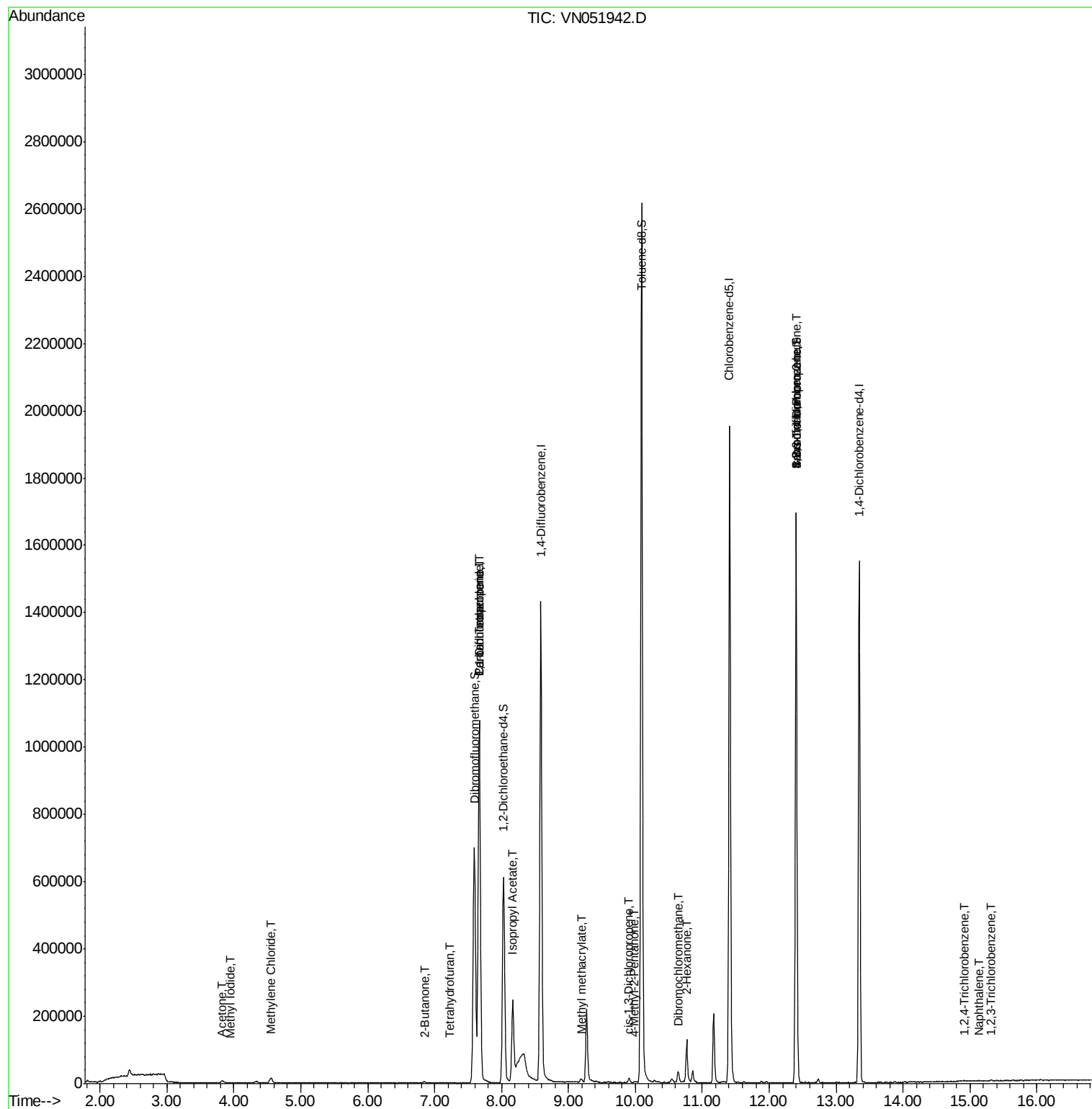
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.57  | 94   | 3304     | Below Cal | #      | 56     |
| 10) Methyl Iodide              | 3.95  | 142  | 130      | 3.294     | ug/l # | 41     |
| 13) Acrolein                   | 3.44  | 56   | 80       | Below Cal |        | 90     |
| 16) Acetone                    | 3.83  | 43   | 9732     | 6.167     | ug/l # | 82     |
| 18) Methyl Acetate             | 4.33  | 43   | 9264     | Below Cal | #      | 79     |
| 20) Methylene Chloride         | 4.55  | 84   | 10991    | 1.370     | ug/l   | 93     |
| 25) 2-Butanone                 | 6.84  | 43   | 1465     | 0.650     | ug/l   | 99     |
| 29) Tetrahydrofuran            | 7.22  | 42   | 1021     | 0.741     | ug/l # | 66     |
| 31) Cyclohexane                | 7.66  | 56   | 7603     | Below Cal | #      | 34     |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 58960    | 5.381     | ug/l # | 46     |
| 37) Ethyl Acetate              | 6.91  | 43   | 348      | Below Cal | #      | 64     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 87463    | 6.778     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.17  | 43   | 286116   | 28.161    | ug/l # | 87     |
| 48) Methyl methacrylate        | 9.18  | 41   | 5565     | 1.258     | ug/l # | 12     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 2018     | 0.396     | ug/l # | 73     |
| 54) cis-1,3-Dichloropropene    | 9.91  | 75   | 2825     | 0.236     | ug/l # | 71     |
| 59) 2-Hexanone                 | 10.77 | 43   | 18474    | 5.401     | ug/l # | 47     |
| 60) Dibromochloromethane       | 10.64 | 129  | 31       | 2.054     | ug/l # | 11     |
| 71) Bromoform                  | 12.40 | 173  | 4388     | 3.817     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 281691   | 50.811    | ug/l # | 100    |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 502      | Below Cal | #      | 60     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 281691   | 166.974   | ug/l # | 14     |
| 93) 1,2,4-Trichlorobenzene     | 14.92 | 180  | 590      | 4.135     | ug/l # | 77     |
| 95) Naphthalene                | 15.14 | 128  | 1593     | 4.159     | ug/l # | 75     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 441      | 2.972     | ug/l # | 81     |

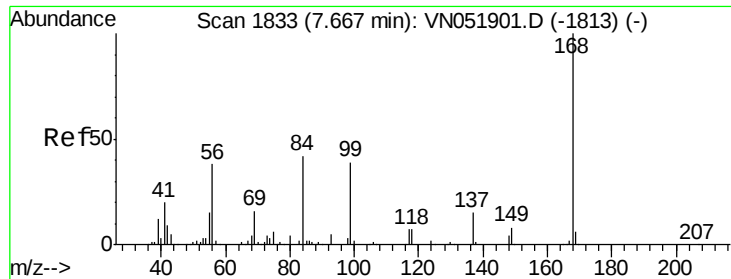
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N101718W.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 19 05:11:28 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

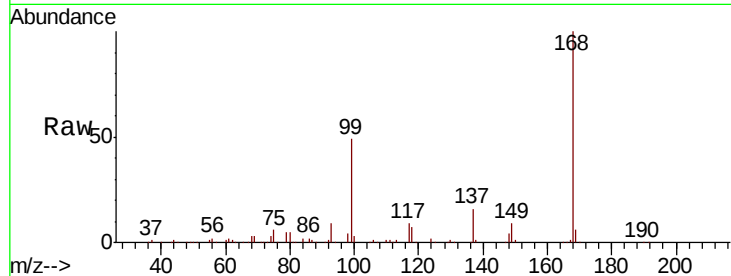
PB113937ZHE#03

Tot Ion:168 Resp: 961387

Ion Ratio Lower Upper

168 100

99 49.5 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VN051901.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051901.D (-1813) (-)

7.67

400000

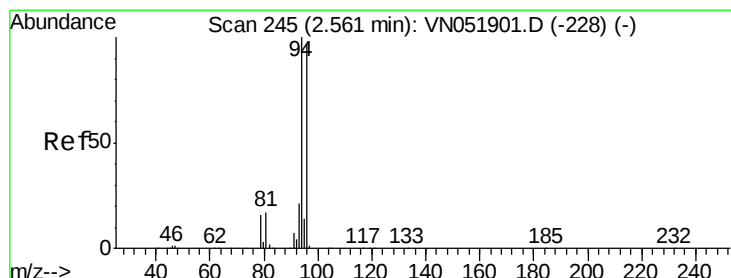
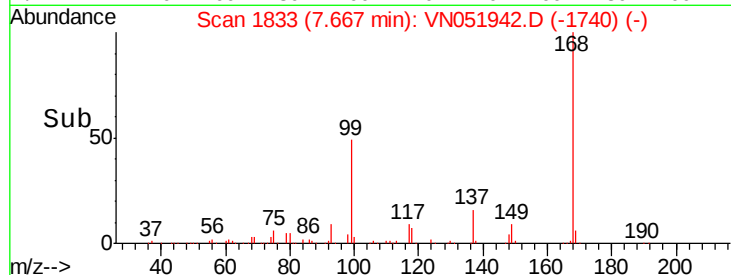
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051942.D

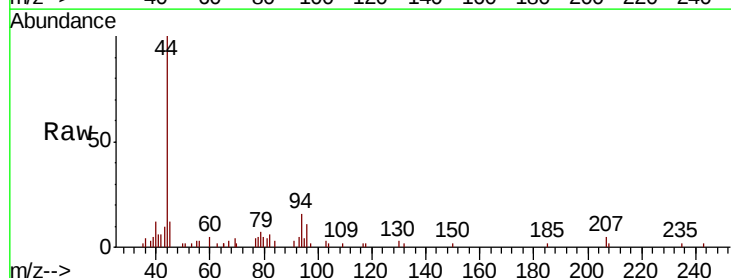
Acq: 19 Oct 2018 12:40

Tgt Ion: 94 Resp: 3304

Ion Ratio Lower Upper

94 100

96 53.3 77.5 116.3#



Abundance Ion 93.90 (93.60 to 94.60): VN051901.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051901.D (-228) (-)

2.57

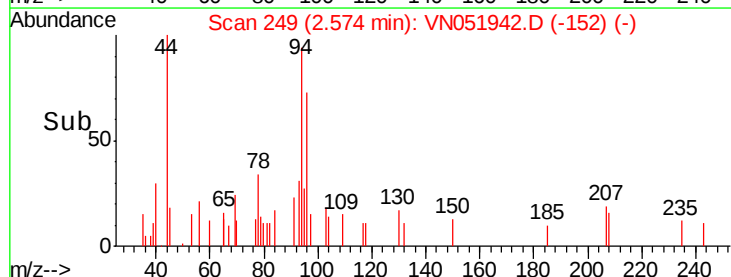
1500

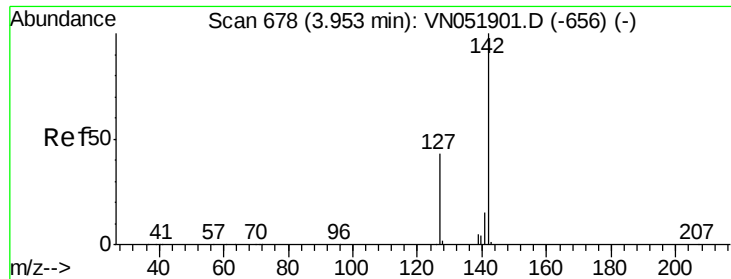
1000

500

0

Time-->





#10

Methvl Iodide

Concen: 3.294 ug/l

RT: 3.95 min Scan# 677

Delta R.T. -0.00 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

PB113937ZHE#03

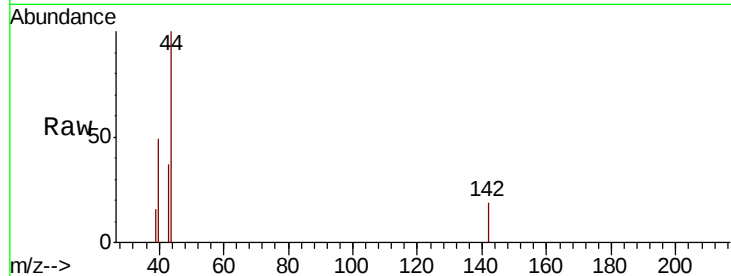
Tot Ion:142 Resp: 130

Ion Ratio Lower Upper

142 100

127 0.0 34.3 51.5#

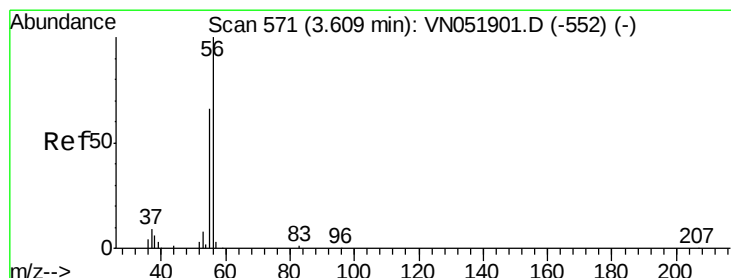
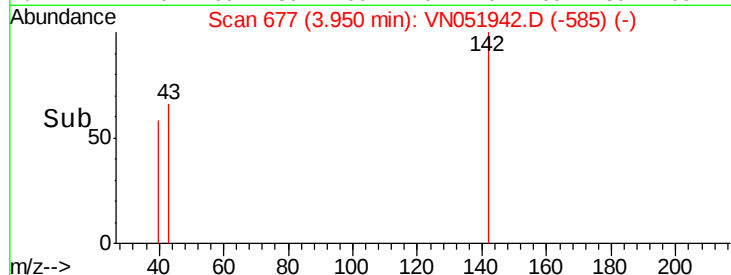
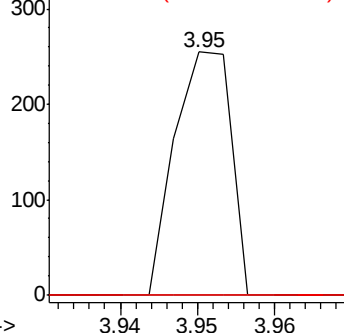
141 0.0 11.1 16.7#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#13

Acrolein

Concen: Below Cal

RT: 3.44 min Scan# 519

Delta R.T. -0.17 min

Lab File: VN051942.D

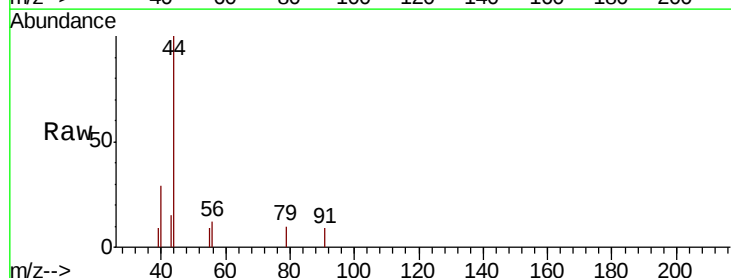
Acq: 19 Oct 2018 12:40

Tgt Ion: 56 Resp: 80

Ion Ratio Lower Upper

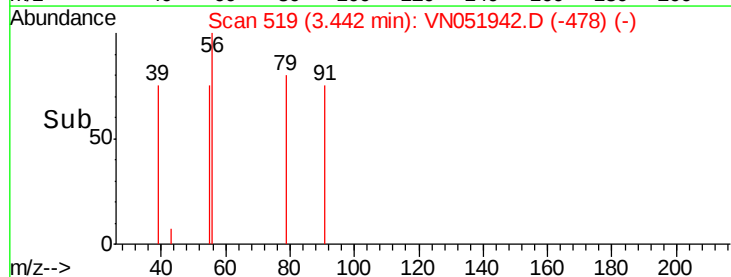
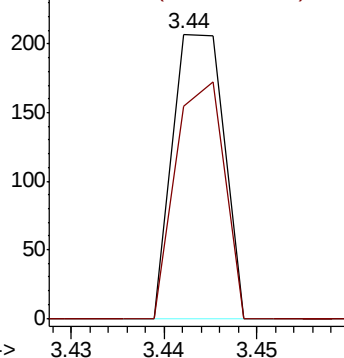
56 100

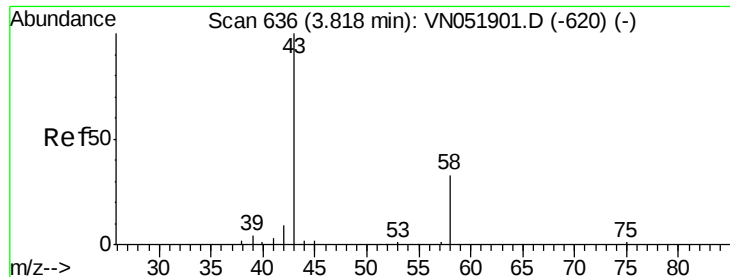
55 78.8 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): V

Ion 55.00 (54.70 to 55.70): V





#16

Acetone

Concen: 6.167 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

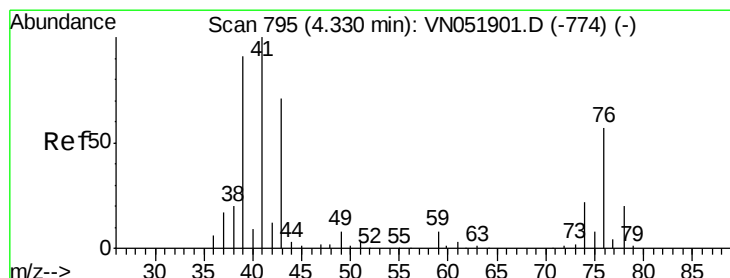
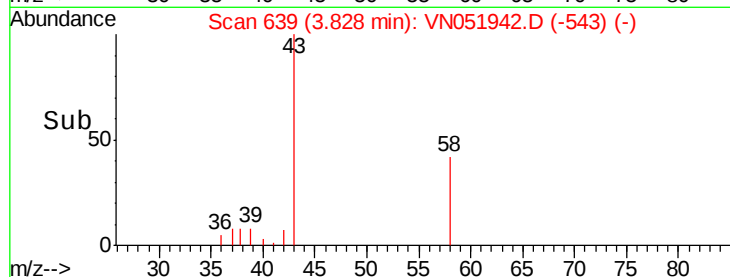
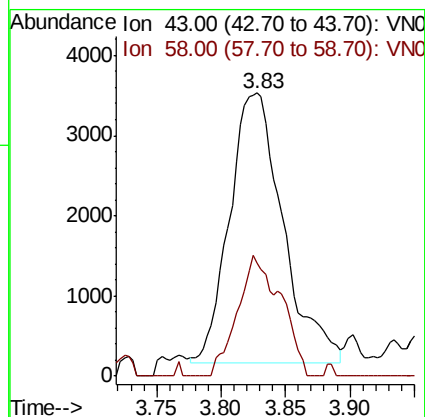
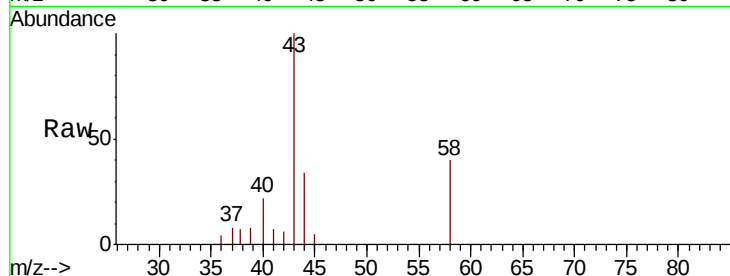
PB113937ZHE#03

Tot Ion: 43 Resp: 9732

Ion Ratio Lower Upper

43 100

58 42.6 25.9 38.9#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051942.D

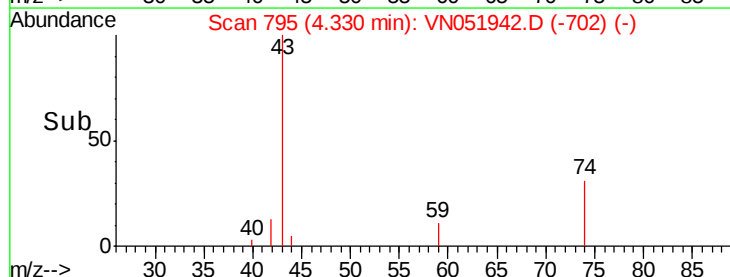
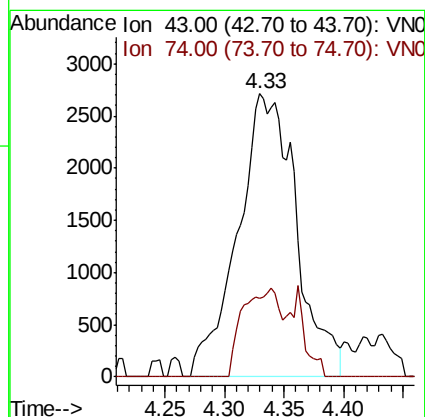
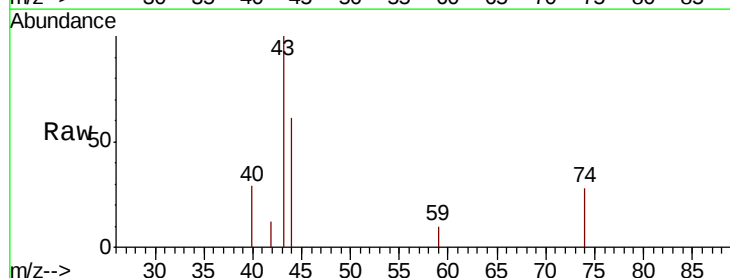
Acq: 19 Oct 2018 12:40

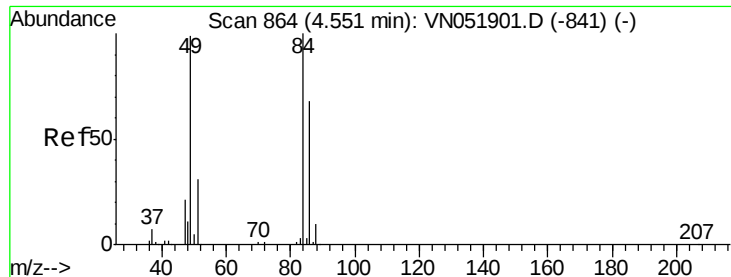
Tgt Ion: 43 Resp: 9264

Ion Ratio Lower Upper

43 100

74 19.7 24.9 37.3#

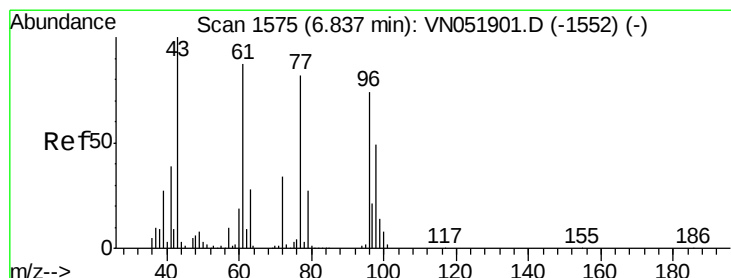
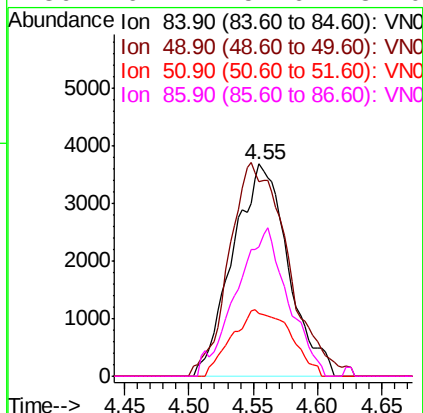
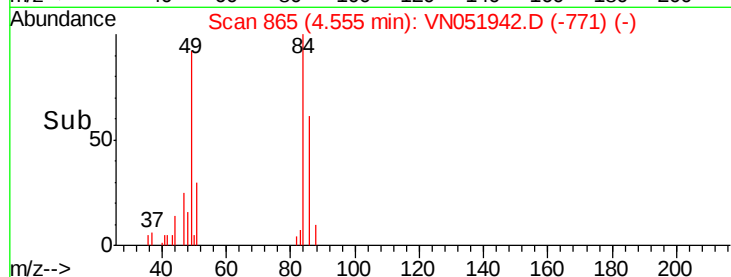
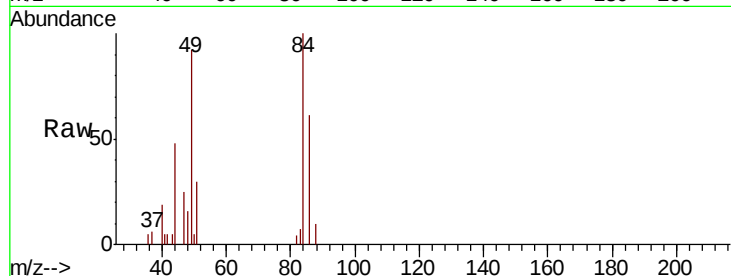




#20  
Methvlene Chloride  
Concen: 1.370 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.00 min  
Lab File: VN051942.D  
Acq: 19 Oct 2018 12:40

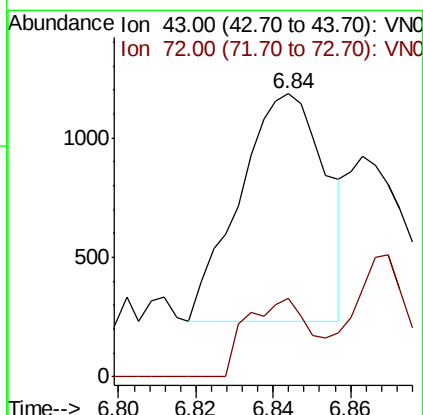
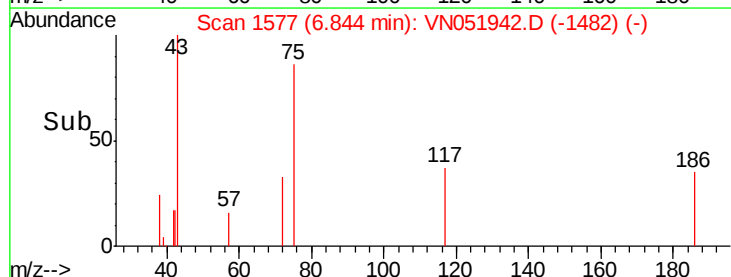
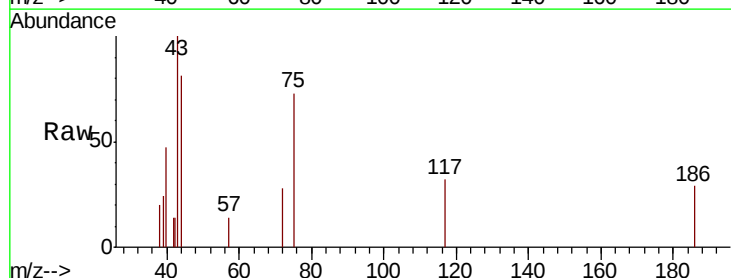
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB113937ZHE#03

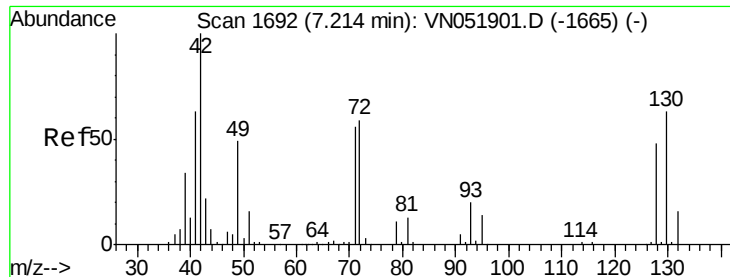
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 10991 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 91.5  | 79.0  | 118.4 |
| 51       | 29.9  | 24.9  | 37.3  |
| 86       | 61.1  | 54.6  | 82.0  |



#25  
2-Butanone  
Concen: 0.650 ug/l  
RT: 6.84 min Scan# 1577  
Delta R.T. 0.01 min  
Lab File: VN051942.D  
Acq: 19 Oct 2018 12:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1465  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 34.6  | 27.0  | 40.6  |





#29

Tetrahydrofuran

Concen: 0.741 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

PB113937ZHE#03

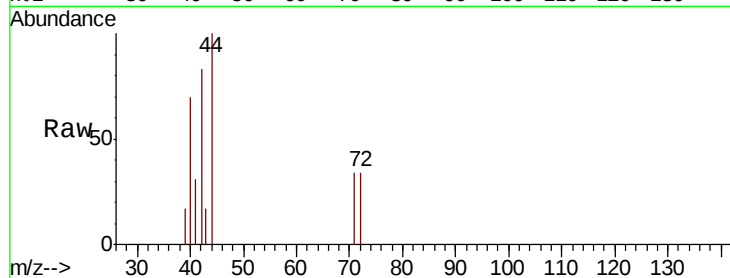
Tot Ion: 42 Resp: 1021

Ion Ratio Lower Upper

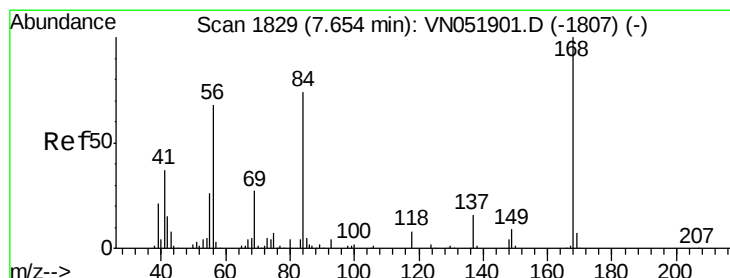
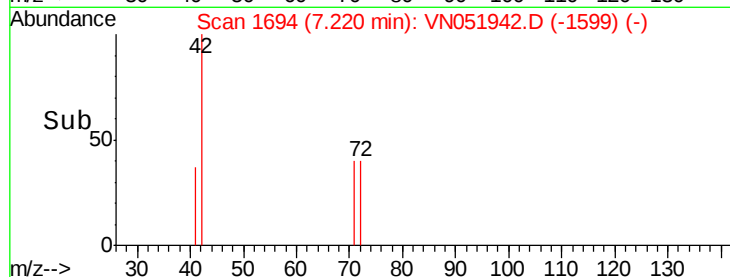
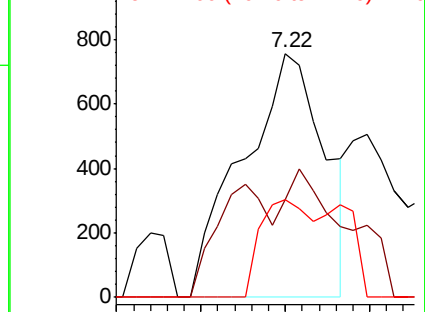
42 100

72 40.2 47.7 71.5#

71 24.9 45.4 68.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0  
Ion 72.00 (71.70 to 72.70): VN0  
Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

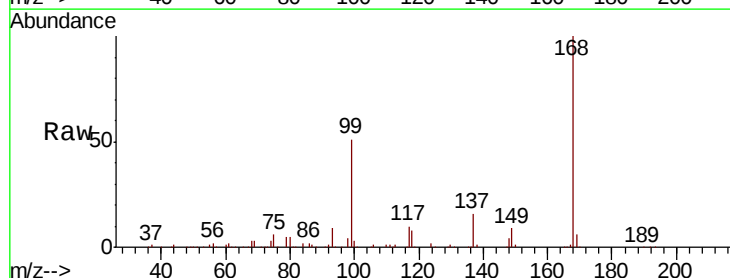
Tgt Ion: 56 Resp: 7603

Ion Ratio Lower Upper

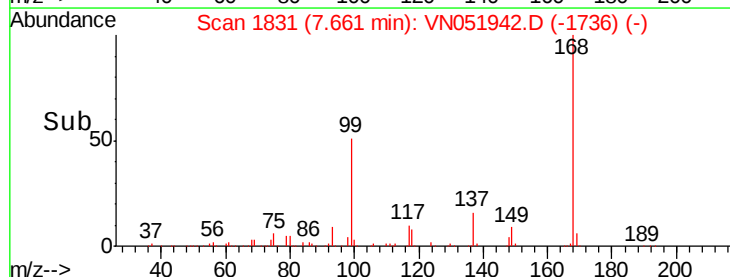
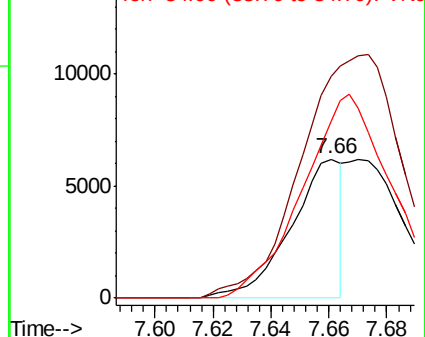
56 100

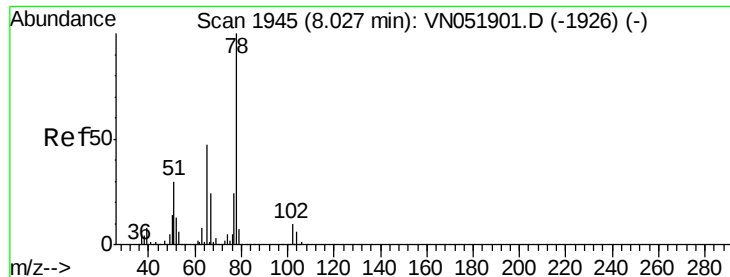
69 159.9 31.2 46.8#

84 127.3 86.6 130.0



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

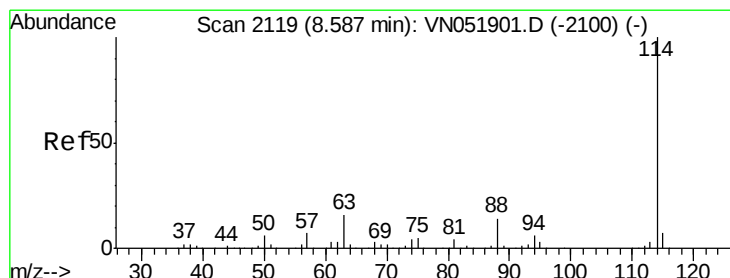
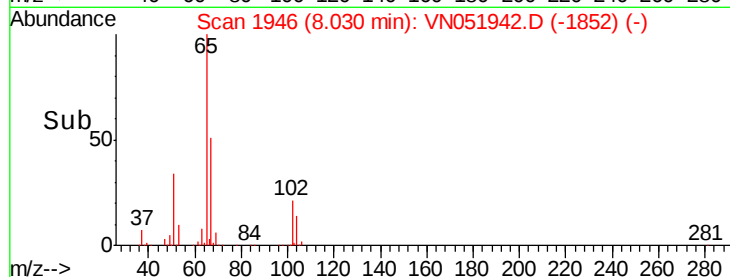
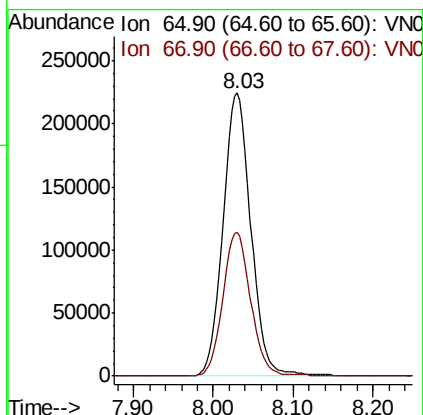
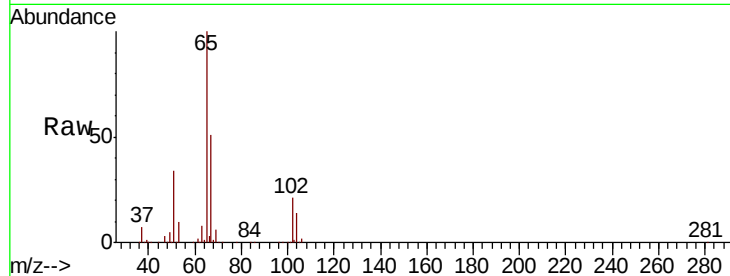




#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. 0.00 min  
 Lab File: VN051942.D  
 Acq: 19 Oct 2018 12:40

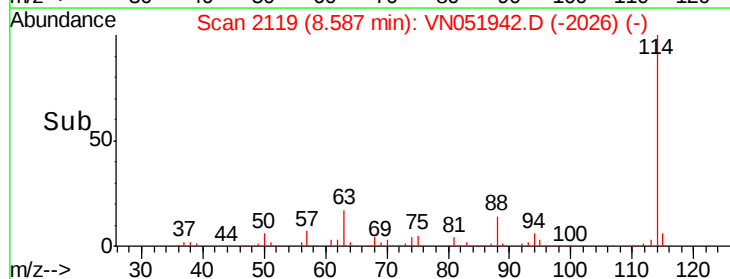
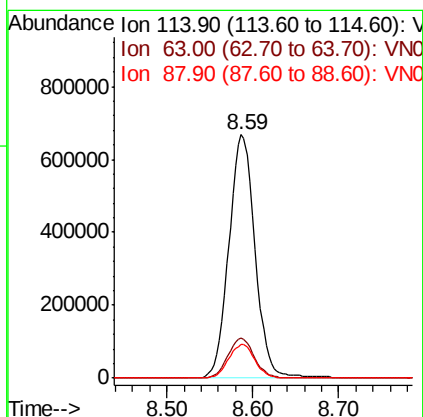
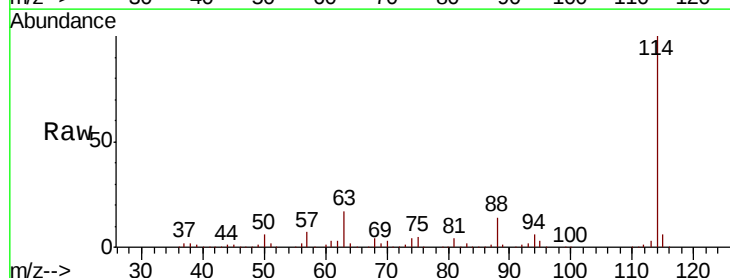
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB113937ZHE#03

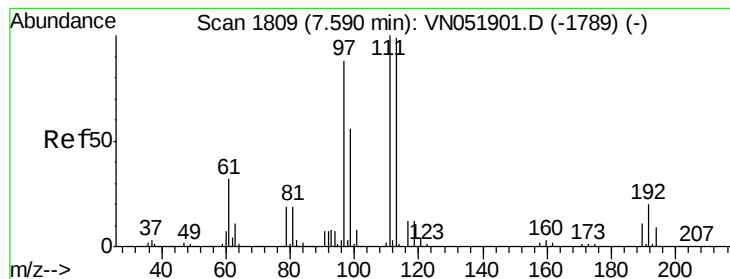
Tot Ion: 65 Resp: 534714  
 Ion Ratio Lower Upper  
 65 100  
 67 50.7 0.0 104.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN051942.D  
 Acq: 19 Oct 2018 12:40

Tgt Ion: 114 Resp: 1411790  
 Ion Ratio Lower Upper  
 114 100  
 63 16.7 0.0 31.8  
 88 13.7 0.0 28.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

PB113937ZHE#03

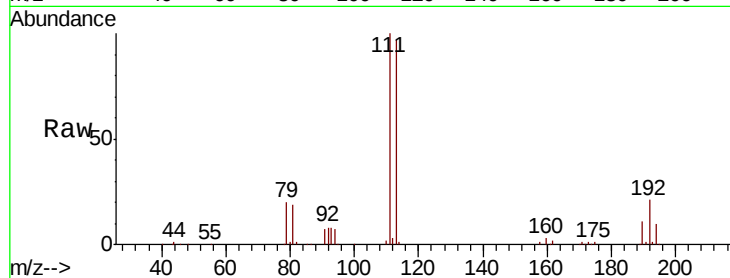
Tot Ion:113 Resp: 532467

Ion Ratio Lower Upper

113 100

111 101.9 82.6 123.8

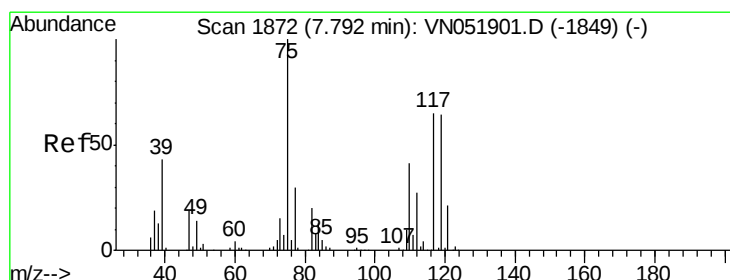
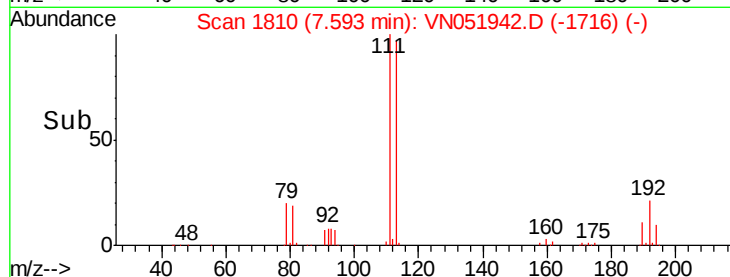
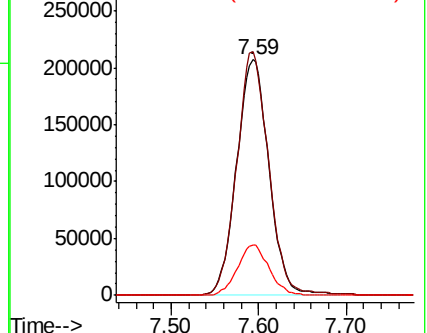
192 21.0 17.3 25.9



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: 5.381 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

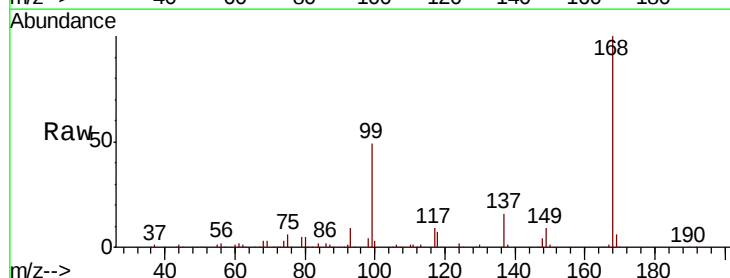
Tgt Ion: 75 Resp: 58960

Ion Ratio Lower Upper

75 100

110 9.5 21.0 63.0#

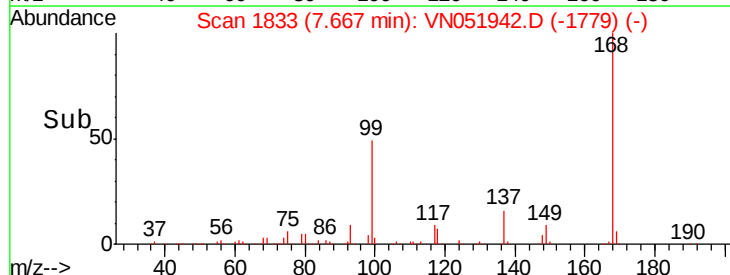
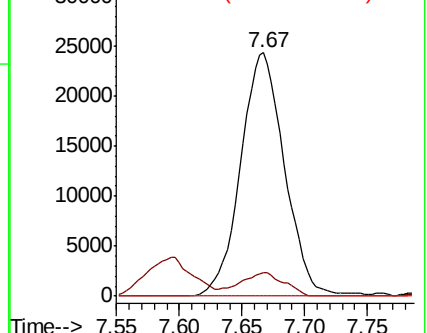
77 0.0 24.9 37.3#

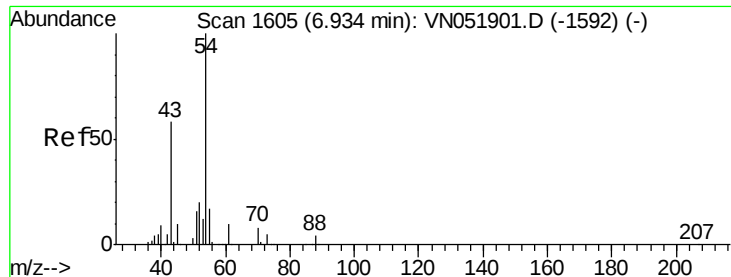


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#37

Ethyl Acetate

Concen: Below Cal

RT: 6.91 min Scan# 1599

Delta R.T. -0.02 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

PB113937ZHE#03

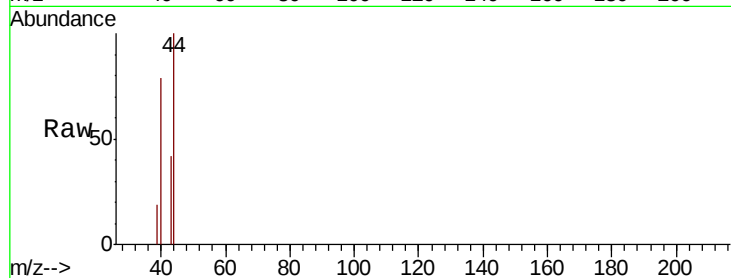
Tot Ion: 43 Resp: 348

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

70 0.0 10.4 15.6#

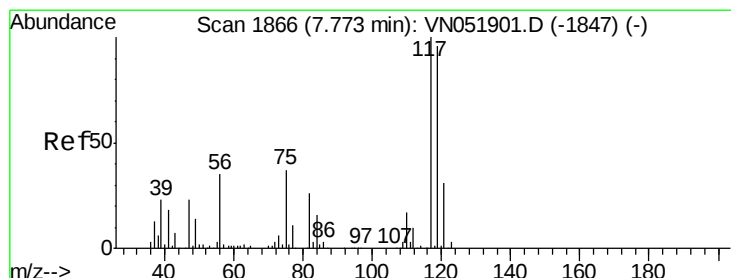
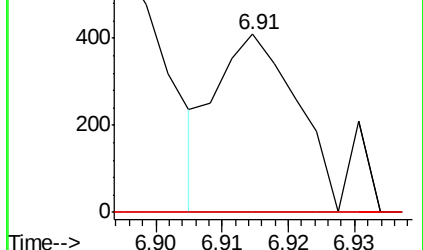
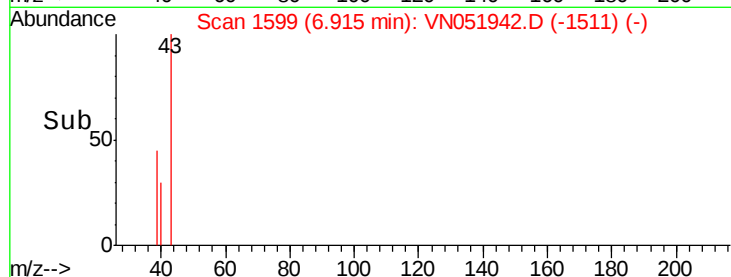


Abundance Ion 43.00 (42.70 to 43.70): VN051901.D (-1592) (-)

Ion 60.90 (60.60 to 61.60): VN051901.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051901.D (-1592) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.778 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

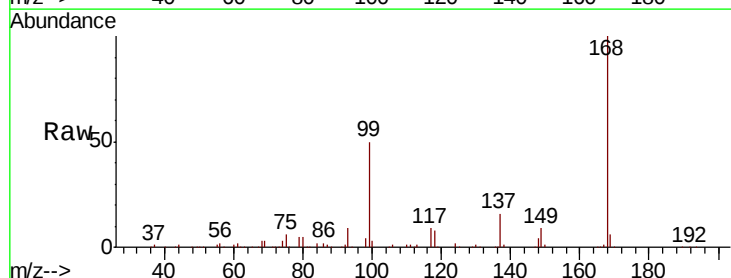
Tgt Ion: 117 Resp: 87463

Ion Ratio Lower Upper

117 100

119 3.9 77.0 115.6#

121 0.0 25.1 37.7#

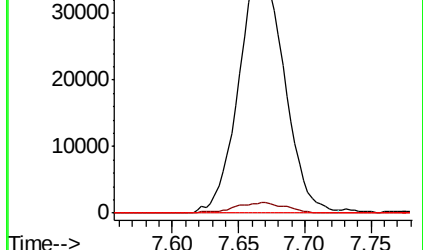
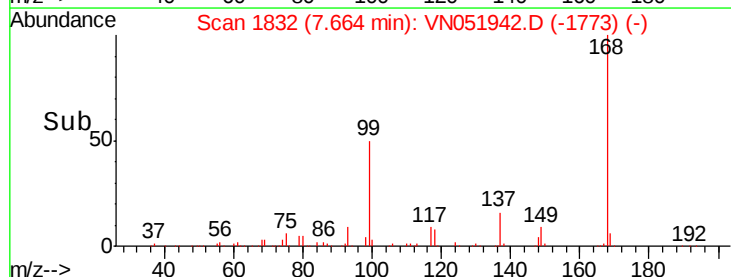


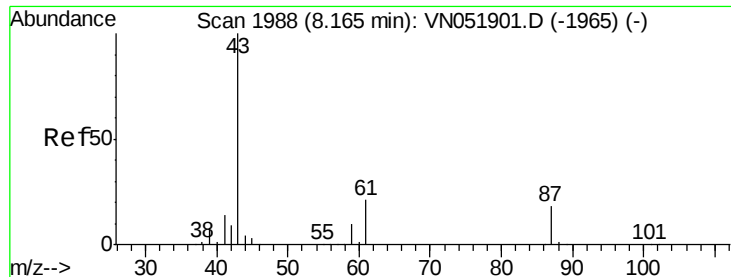
Abundance Ion 116.80 (116.50 to 117.50): VN051901.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN051901.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN051901.D (-1847) (-)

Time-->





#43

Isopropyl Acetate

Concen: 28.161 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

PB113937ZHE#03

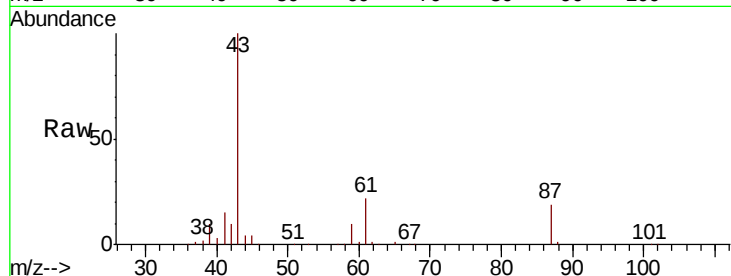
Tot Ion: 43 Resp: 286116

Ion Ratio Lower Upper

43 100

61 20.9 24.9 37.3#

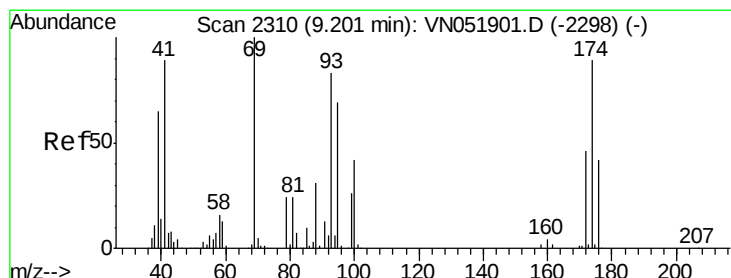
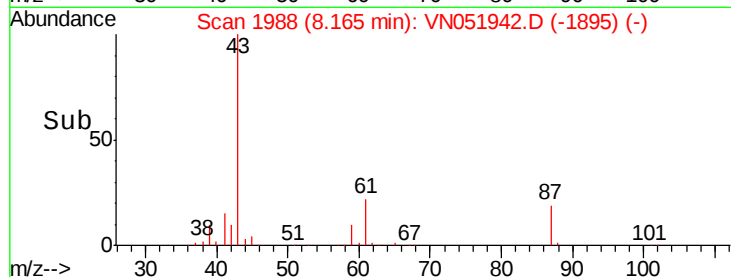
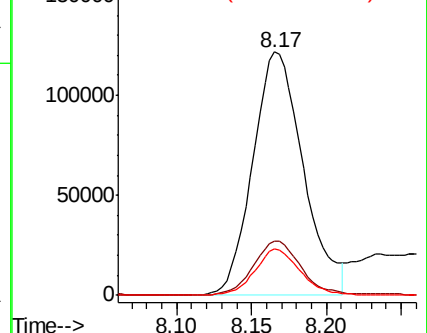
87 17.1 14.6 22.0



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



#48

Methyl methacrylate

Concen: 1.258 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

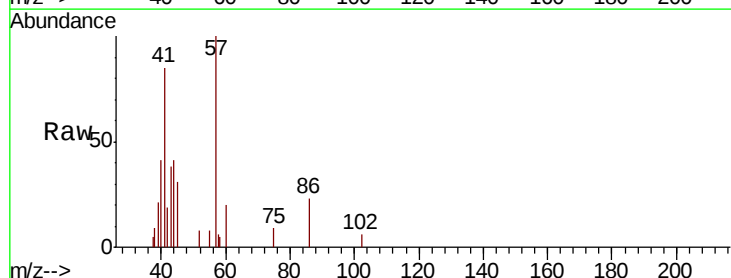
Tgt Ion: 41 Resp: 5565

Ion Ratio Lower Upper

41 100

69 0.0 90.2 135.2#

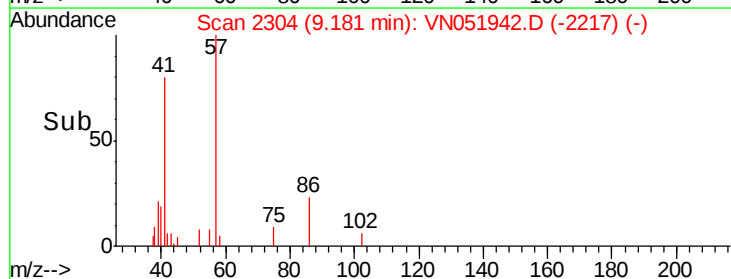
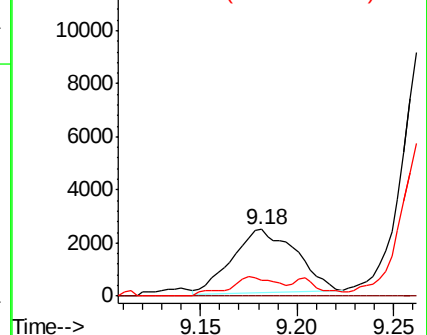
39 22.3 59.7 89.5#

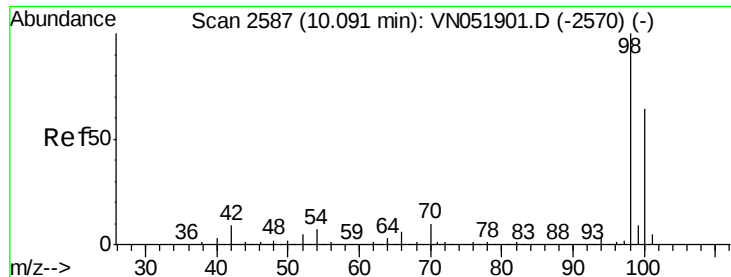


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

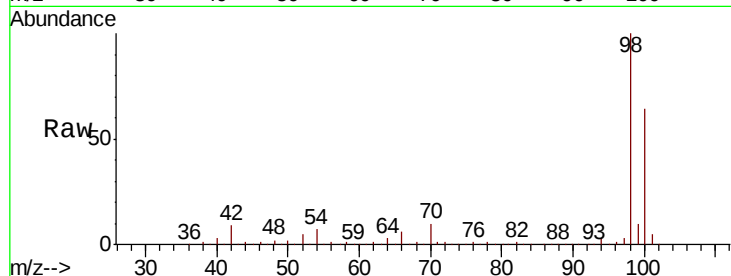
PB113937ZHE#03

Tot Ion: 98 Resp: 1956070

Ion Ratio Lower Upper

98 100

100 63.7 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VN051901.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051901.D (-2570) (-)

1200000

1000000

800000

600000

400000

200000

0

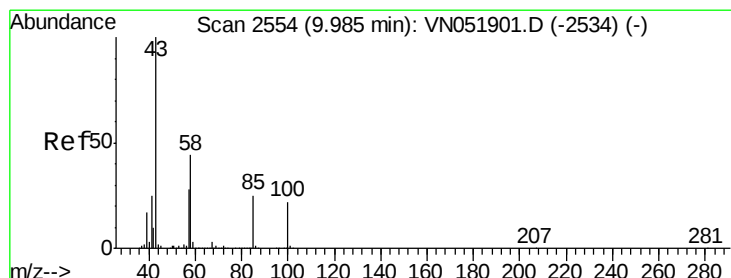
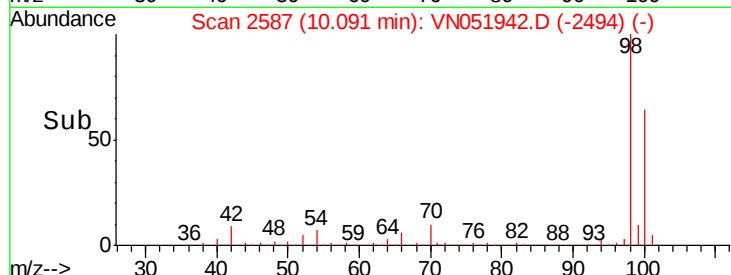
10.09

10.00

10.20

10.30

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.396 ug/l

RT: 9.99 min Scan# 2557

Delta R.T. 0.01 min

Lab File: VN051942.D

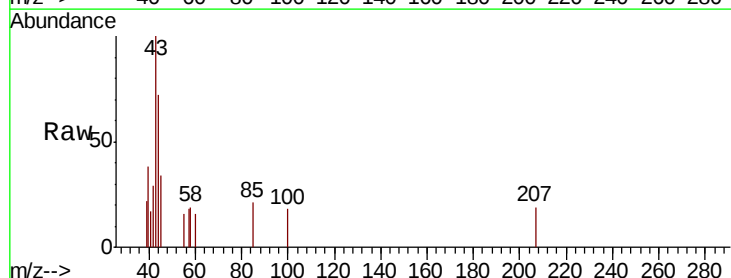
Acq: 19 Oct 2018 12:40

Tgt Ion: 43 Resp: 2018

Ion Ratio Lower Upper

43 100

58 26.3 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN051901.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN051901.D (-2534) (-)

1500

1000

500

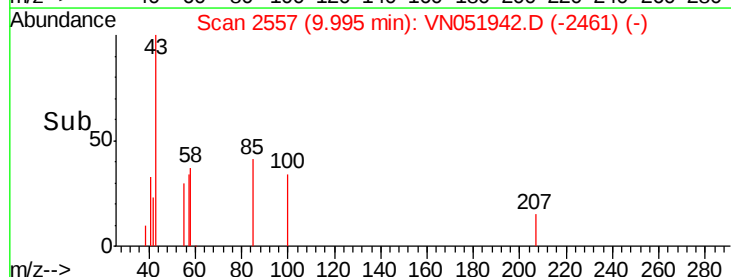
0

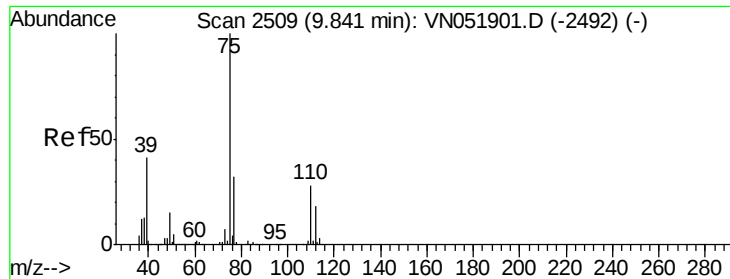
9.99

9.95

10.00

Time-->





#54

cis-1,3-Dichloropropene

Concen: 0.236 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

PB113937ZHE#03

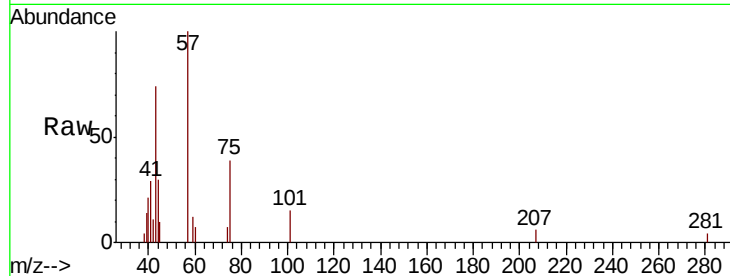
Tot Ion: 75 Resp: 2825

Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#

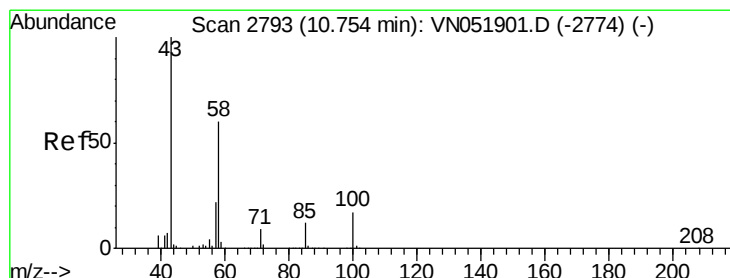
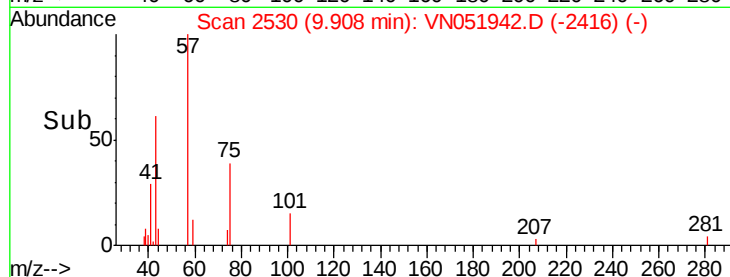
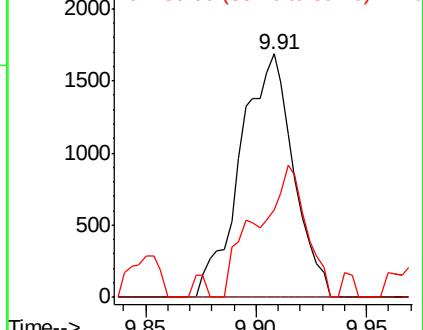
39 35.9 32.8 49.2



Abundance Ion 74.90 (74.60 to 75.60): VN051942.D (-2416) (-)

Ion 76.90 (76.60 to 77.60): VN051942.D (-2416) (-)

Ion 39.00 (38.70 to 39.70): VN051942.D (-2416) (-)



#59

2-Hexanone

Concen: 5.401 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051942.D

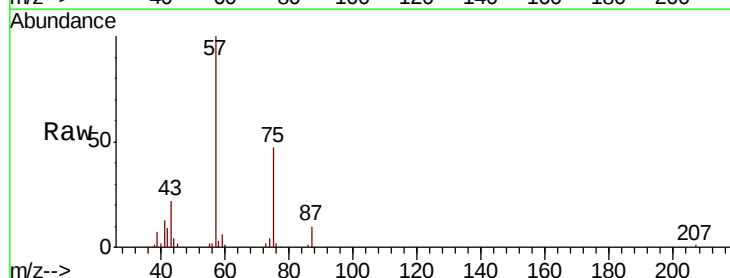
Acq: 19 Oct 2018 12:40

Tgt Ion: 43 Resp: 18474

Ion Ratio Lower Upper

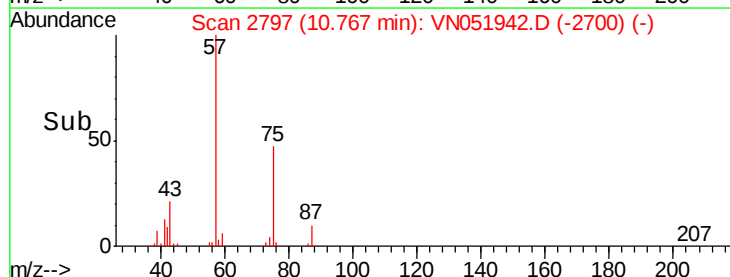
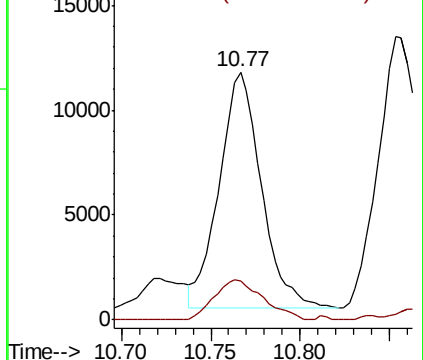
43 100

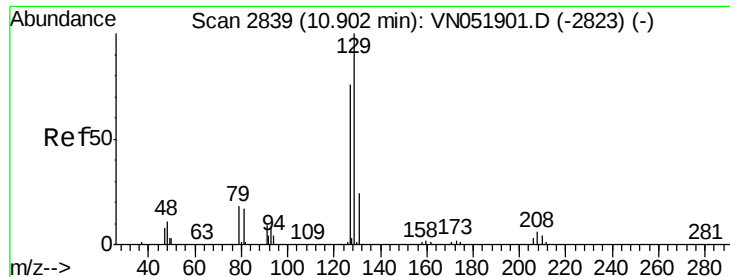
58 19.6 29.8 89.5#



Abundance Ion 43.00 (42.70 to 43.70): VN051942.D (-2700) (-)

Ion 58.00 (57.70 to 58.70): VN051942.D (-2700) (-)





#60

Dibromochloromethane

Concen: 2.054 ug/l

RT: 10.64 min Scan# 2758

Delta R.T. -0.26 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

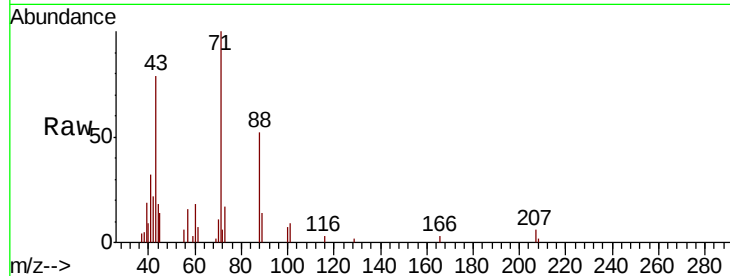
PB113937ZHE#03

Tot Ion:129 Resp: 31

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.64

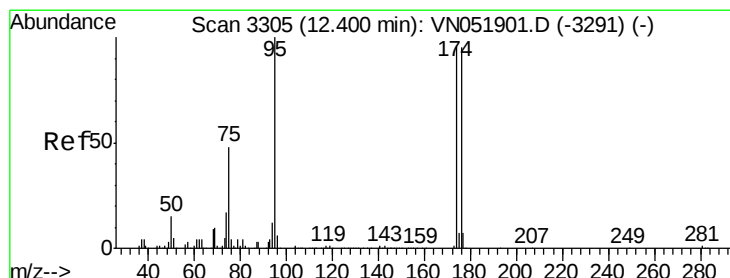
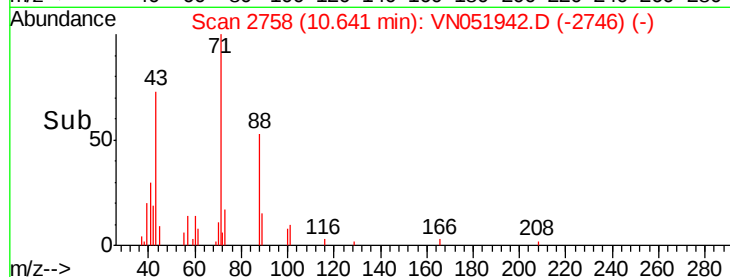
150

100

50

0

Time--> 10.63 10.64 10.65



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

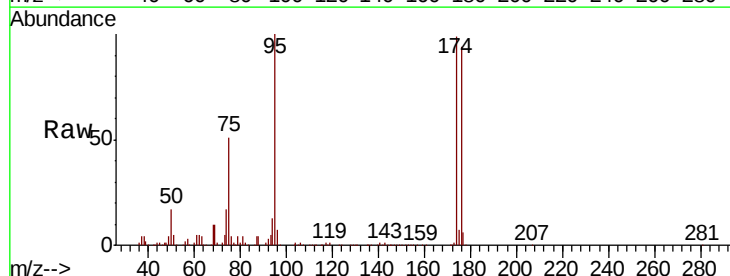
Tgt Ion: 95 Resp: 551844

Ion Ratio Lower Upper

95 100

174 98.2 0.0 195.0

176 94.0 0.0 191.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

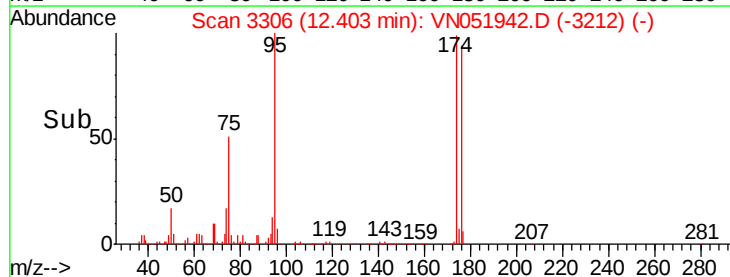
300000

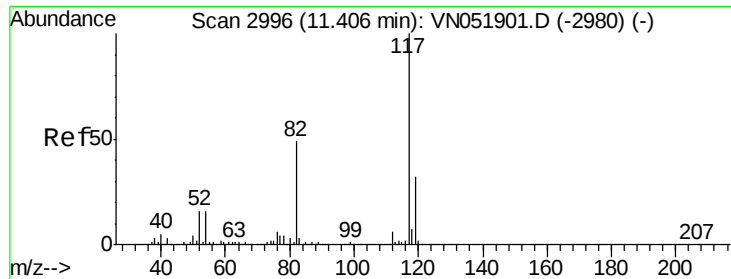
200000

100000

0

Time--> 12.30 12.40 12.50

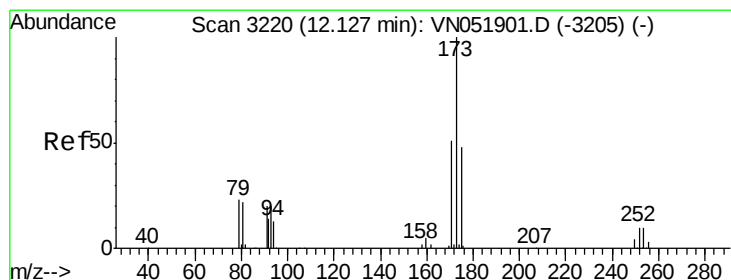
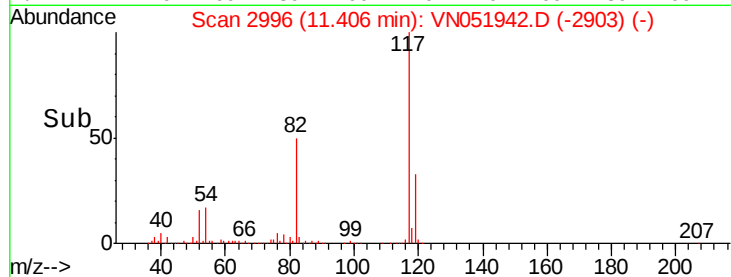
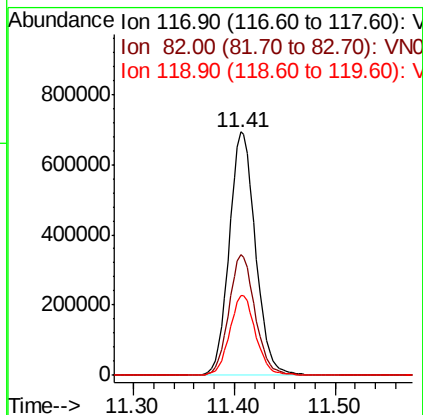
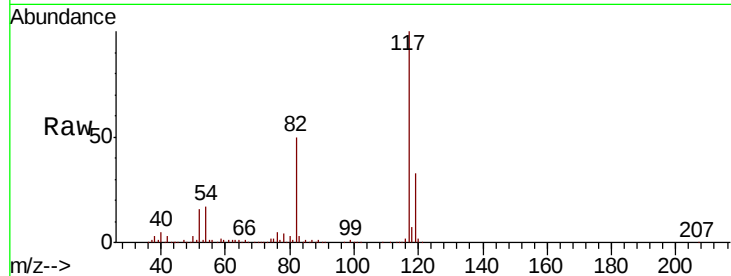




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN051942.D  
Acq: 19 Oct 2018 12:40

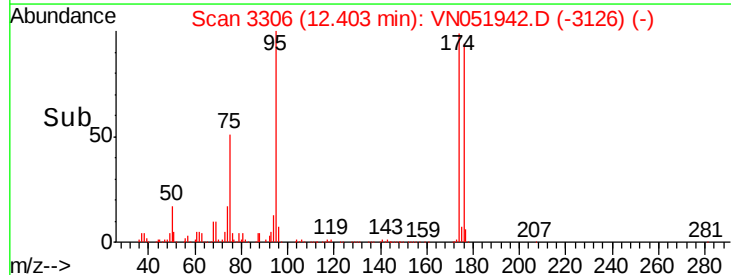
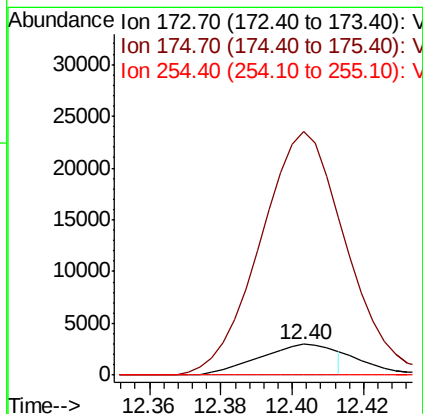
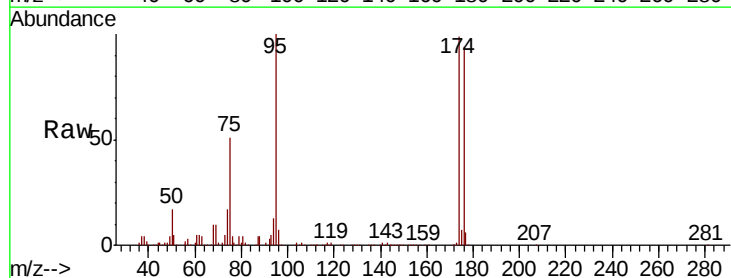
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB113937ZHE#03

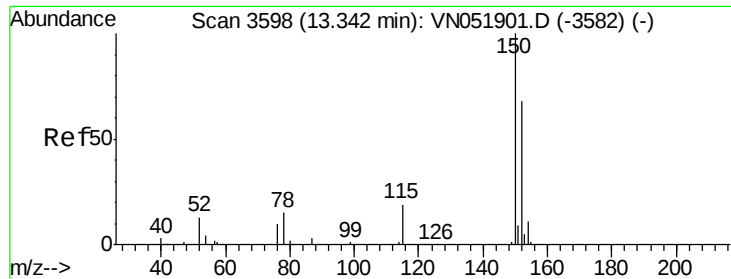
Tot Ion:117 Resp: 1258419  
Ion Ratio Lower Upper  
117 100  
82 49.7 38.9 58.3  
119 32.7 25.9 38.9



#71  
Bromoform  
Concen: 3.817 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.28 min  
Lab File: VN051942.D  
Acq: 19 Oct 2018 12:40

Tgt Ion:173 Resp: 4388  
Ion Ratio Lower Upper  
173 100  
175 746.6 24.0 72.0#  
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

PB113937ZHE#03

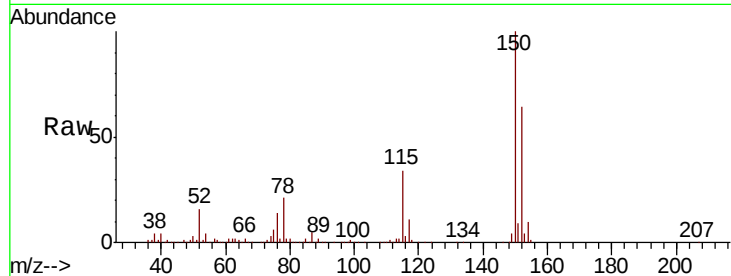
Tot Ion:152 Resp: 456120

Ion Ratio Lower Upper

152 100

115 54.1 26.7 80.1

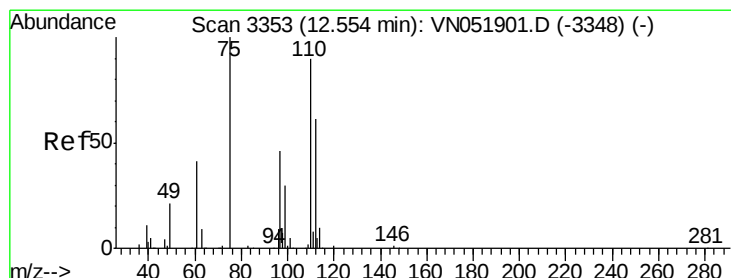
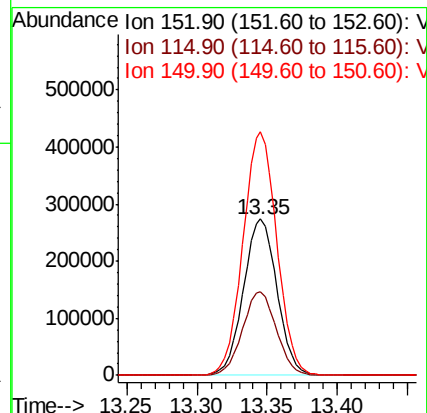
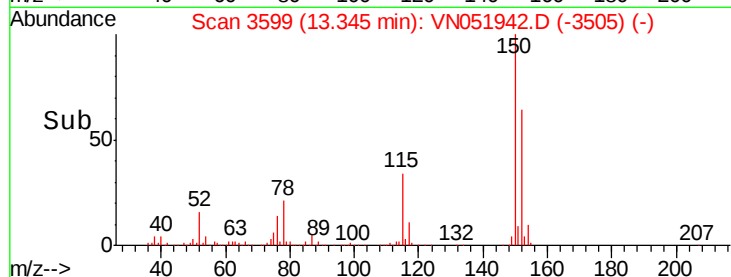
150 157.2 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 50.811 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051942.D

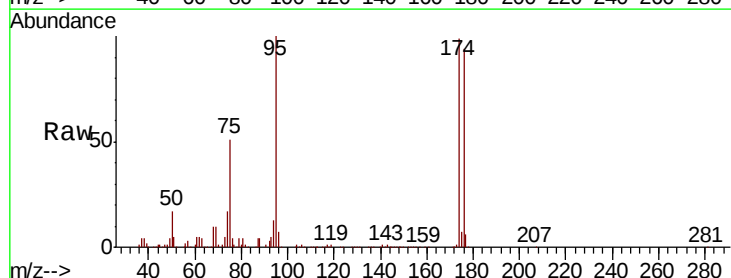
Acq: 19 Oct 2018 12:40

Tgt Ion: 75 Resp: 281691

Ion Ratio Lower Upper

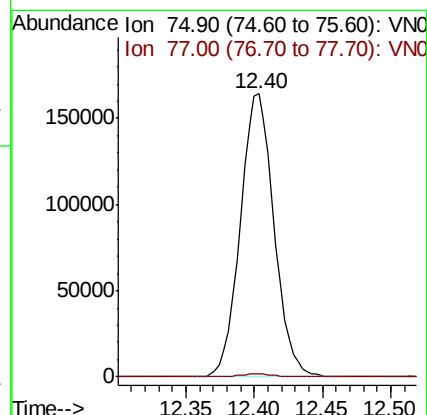
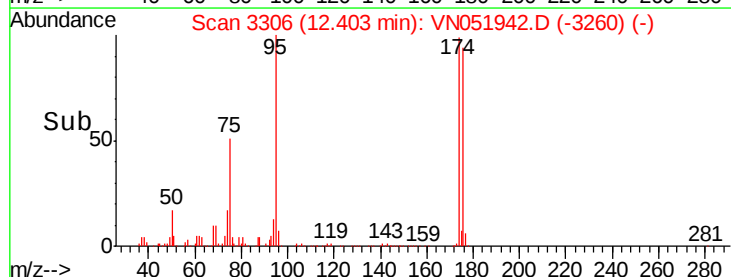
75 100

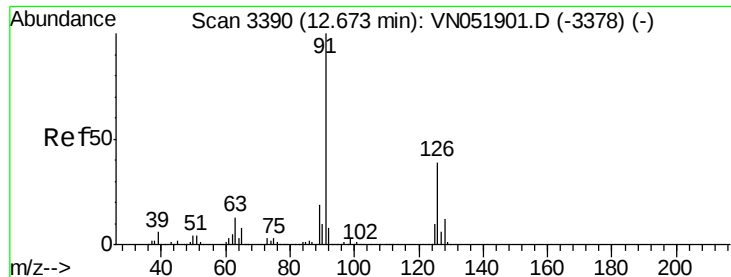
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

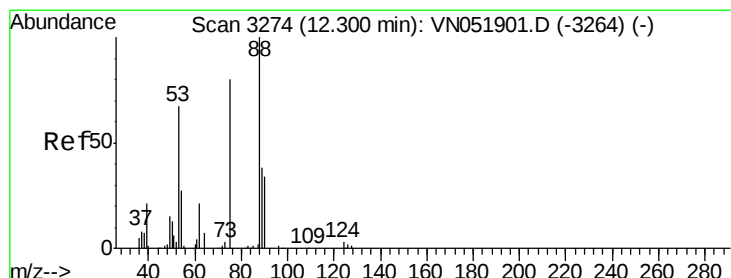
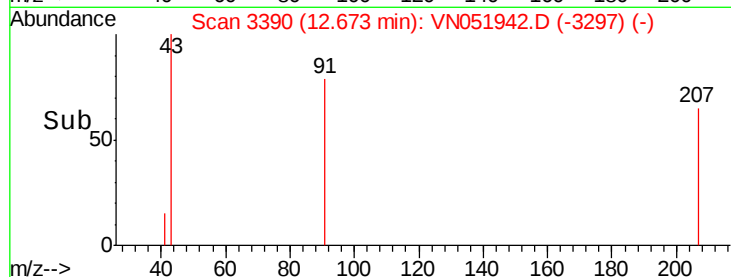
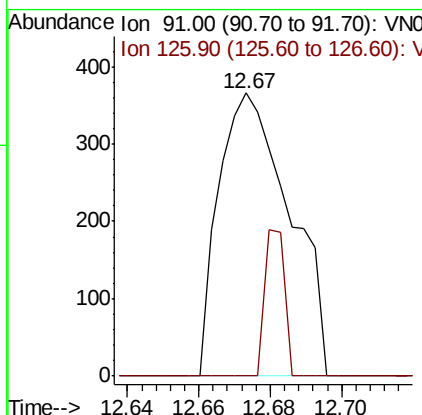
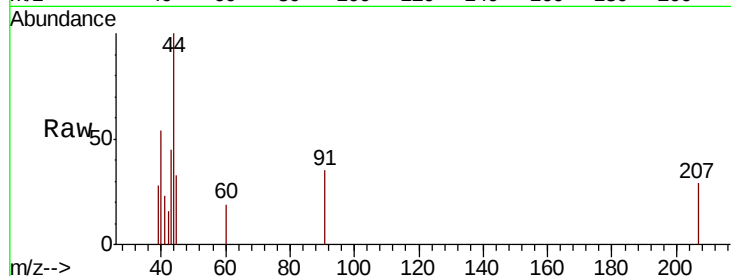




#79  
 2-Chlorotoluene  
 Concen: Below Cal  
 RT: 12.67 min Scan# 3390  
 Delta R.T. 0.00 min  
 Lab File: VN051942.D  
 Acq: 19 Oct 2018 12:40

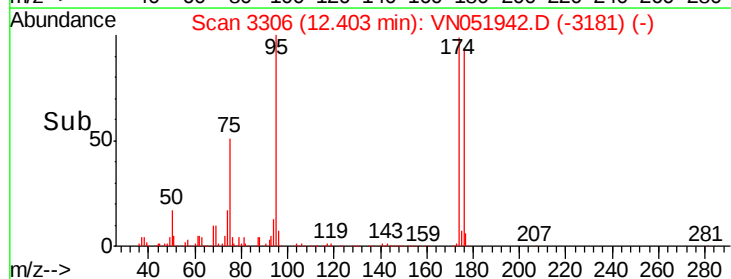
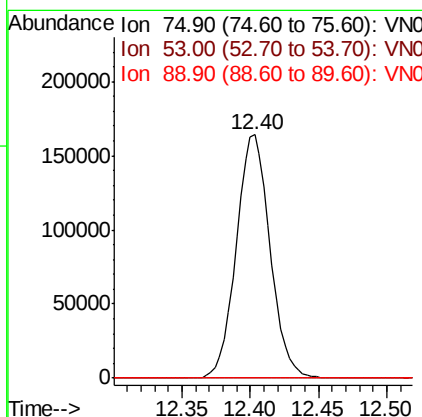
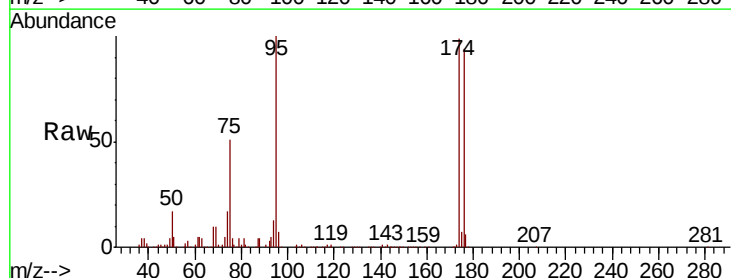
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB113937ZHE#03

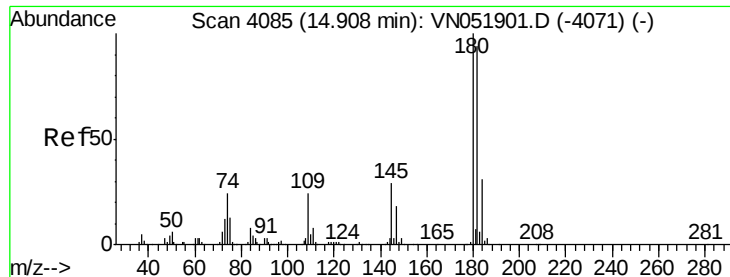
Tot Ion: 91 Resp: 502  
 Ion Ratio Lower Upper  
 91 100  
 126 14.5 19.6 58.7#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 166.974 ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.10 min  
 Lab File: VN051942.D  
 Acq: 19 Oct 2018 12:40

Tgt Ion: 75 Resp: 281691  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 68.5 102.7#  
 89 0.0 39.0 58.6#





#93

1,2,4-Trichlorobenzene

Concen: 4.135 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

PB113937ZHE#03

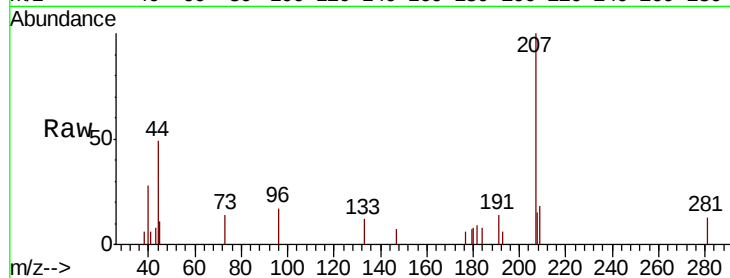
Tot Ion:180 Resp: 590

Ion Ratio Lower Upper

180 100

182 81.0 47.3 141.9

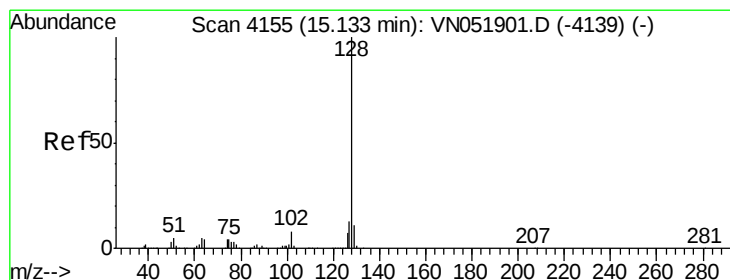
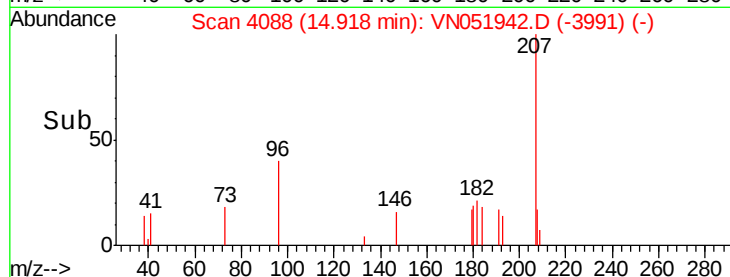
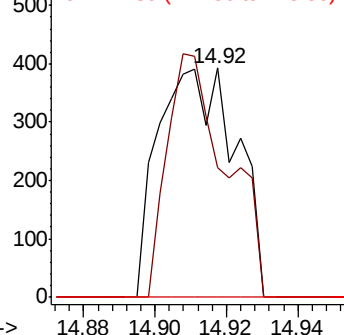
145 0.0 14.5 43.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 4.159 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

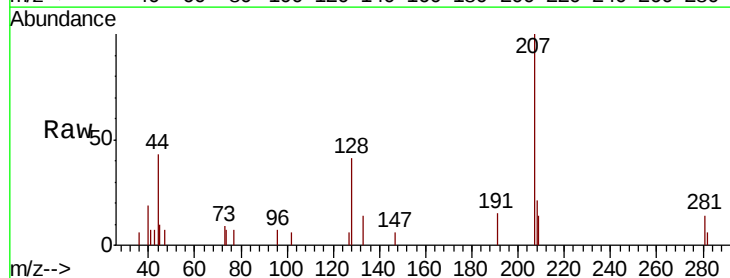
Tgt Ion:128 Resp: 1593

Ion Ratio Lower Upper

128 100

127 3.8 10.2 15.2#

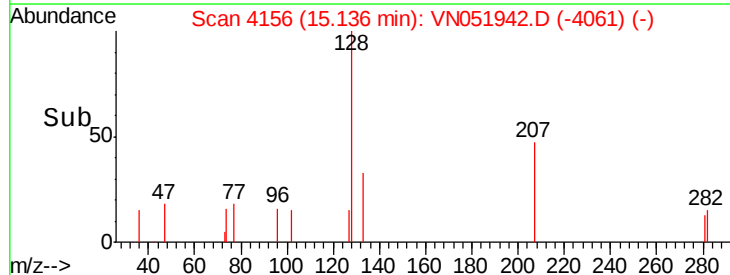
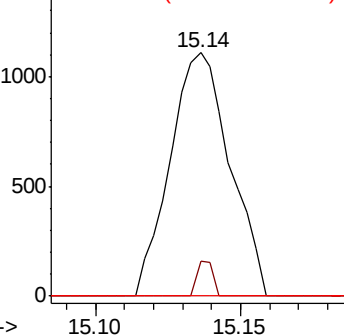
129 0.0 8.5 12.7#

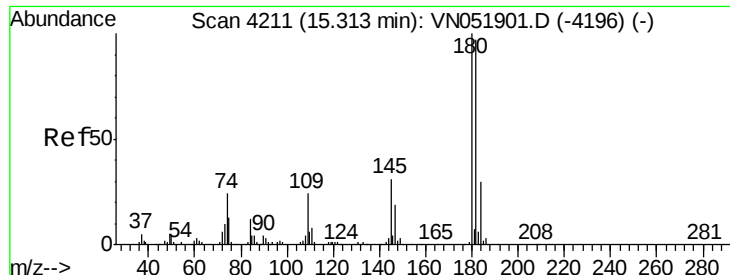


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 2.972 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN051942.D

Acq: 19 Oct 2018 12:40

Instrument :

MSVOA\_N

ClientSampleId :

PB113937ZHE#03

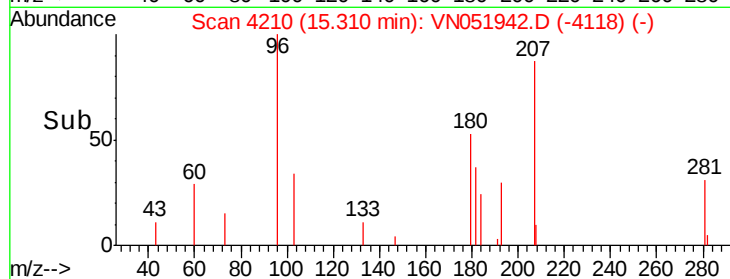
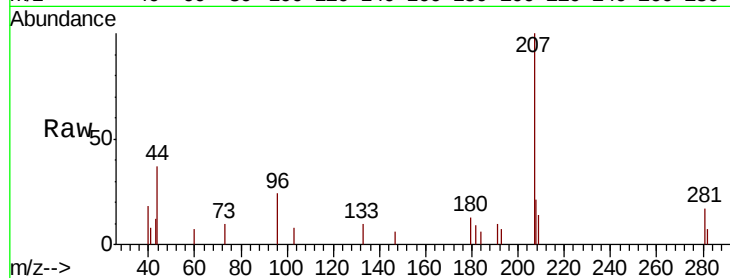
Tot Ion:180 Resp: 441

Ion Ratio Lower Upper

180 100

182 89.3 47.9 143.8

145 0.0 15.2 45.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

