

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\  
 Data File : VN053010.D  
 Acq On : 19 Dec 2018 14:49  
 Operator : MD\SY  
 Sample : PB115821TB  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 15 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB115821TB

Quant Time: Dec 20 05:20:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 18 13:03:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1396631  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 2132086  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1936366  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 786863   | 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   | 684202   | 48.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.54%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 525403   | 53.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.90% |          |
| 50) Toluene-d8              | 10.09 | 98   | 2640099  | 50.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.00% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 876795   | 47.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.54%  |          |

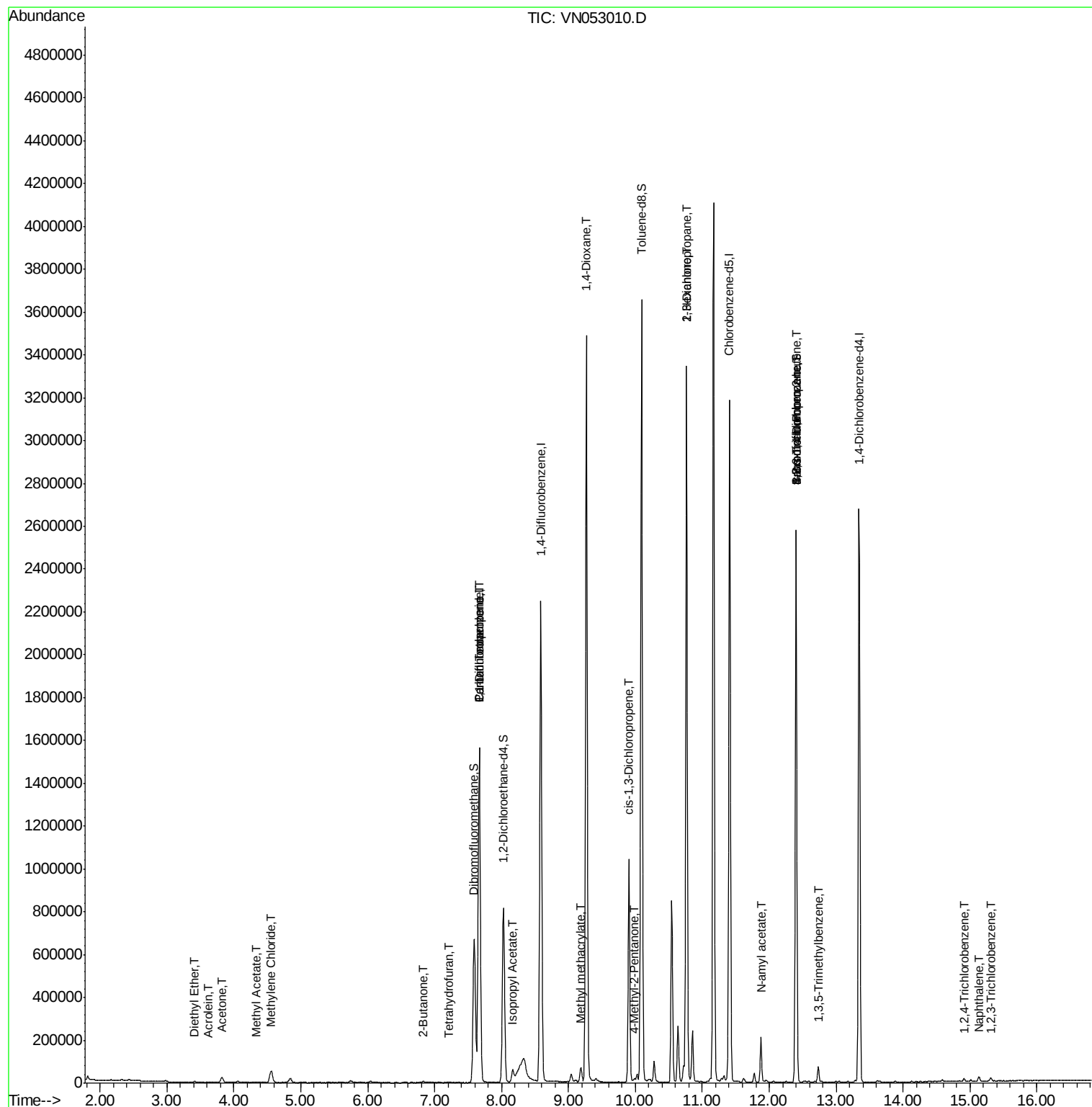
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 3.42  | 74   | 2543     | 0.312     | ug/l # | 44     |
| 13) Acrolein                   | 3.61  | 56   | 571      | 0.728     | ug/l   | 95     |
| 16) Acetone                    | 3.82  | 43   | 43083    | 15.504    | ug/l   | 95     |
| 18) Methyl Acetate             | 4.34  | 43   | 6538     | 1.500     | ug/l # | 89     |
| 20) Methylene Chloride         | 4.56  | 84   | 42664    | 2.815     | ug/l   | 99     |
| 25) 2-Butanone                 | 6.84  | 43   | 1956     | 0.419     | ug/l # | 84     |
| 29) Tetrahydrofuran            | 7.22  | 42   | 2092     | 0.601     | ug/l # | 59     |
| 31) Cyclohexane                | 7.66  | 56   | 23448    | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 90282    | 4.412     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 119507   | 6.371     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.17  | 43   | 78860    | 2.576     | ug/l # | 83     |
| 48) Methyl methacrylate        | 9.18  | 41   | 23726    | 2.140     | ug/l # | 22     |
| 49) 1,4-Dioxane                | 9.27  | 88   | 627      | 4.471     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 11559    | 1.045     | ug/l   | 96     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75   | 199080   | 8.401     | ug/l # | 59     |
| 57) 1,3-Dichloropropane        | 10.76 | 76   | 35803    | 1.586     | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.76 | 43   | 467015   | 62.391    | ug/l # | 51     |
| 71) Bromoform                  | 12.40 | 173  | 4912     | 0.456     | ug/l # | 1      |
| 74) N-amyl acetate             | 11.88 | 43   | 64109    | 3.751     | ug/l # | 51     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 411584   | 31.072    | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 39414    | 0.785     | ug/l   | 98     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 411584   | 100.150   | ug/l # | 12     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 5085     | 0.952     | ug/l   | 91     |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 1598     | Below Cal |        | 91     |
| 95) Naphthalene                | 15.13 | 128  | 18966    | 1.746     | ug/l   | 99     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 6080     | 0.981     | ug/l   | 93     |

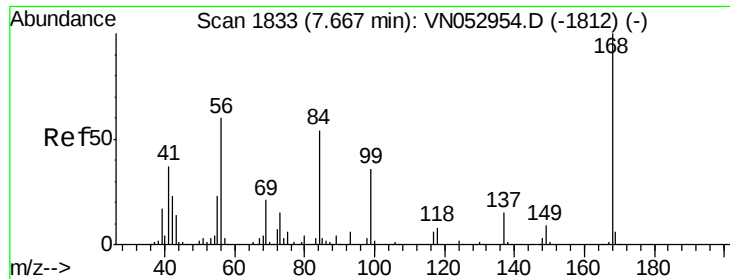
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 20 05:20:31 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 18 13:03:37 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: VN053010.D

Acq: 19 Dec 2018 14:49

Instrument :

MSVOA\_N

ClientSampleId :

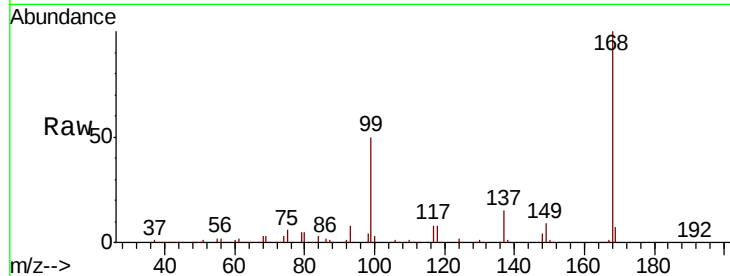
PB115821TB

Tot Ion:168 Resp: 1396631

Ion Ratio Lower Upper

168 100

99 50.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN053010.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053010.D (-1740) (-)

7.67

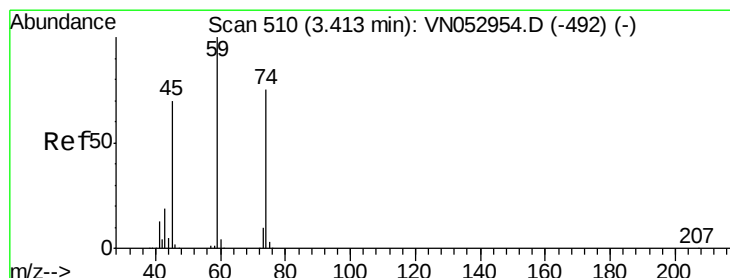
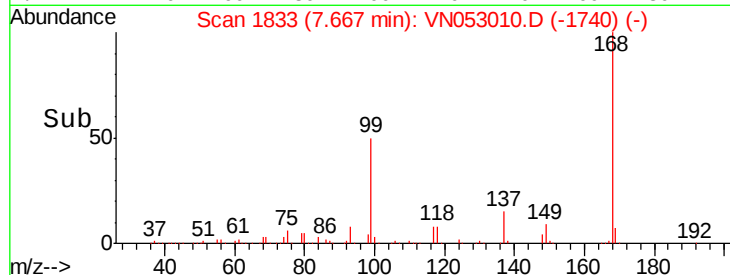
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 0.312 ug/l

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN053010.D

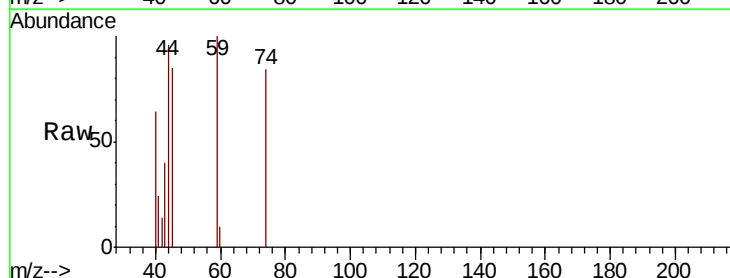
Acq: 19 Dec 2018 14:49

Tgt Ion: 74 Resp: 2543

Ion Ratio Lower Upper

74 100

45 154.1 49.4 148.0#



Abundance Ion 74.00 (73.70 to 74.70): VN053010.D (-417) (-)

Ion 45.00 (44.70 to 45.70): VN053010.D (-417) (-)

3.42

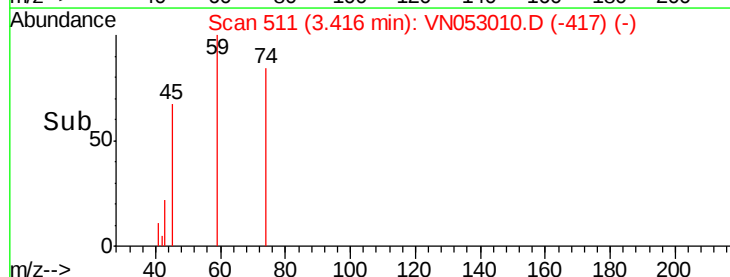
1500

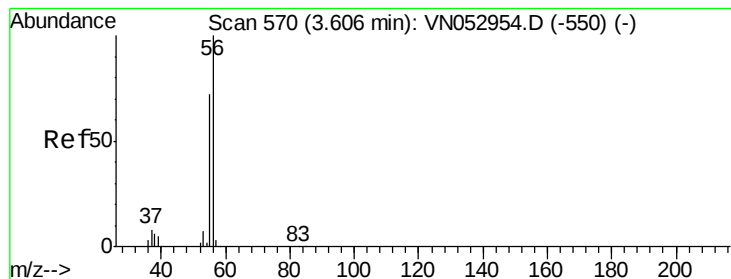
1000

500

0

Time-->





#13

Acrolein

Concen: 0.728 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

Instrument :

MSVOA\_N

ClientSampled :

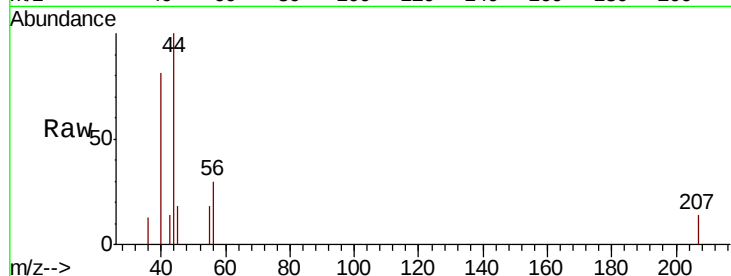
PB115821TB

Tot Ion: 56 Resp: 571

Ion Ratio Lower Upper

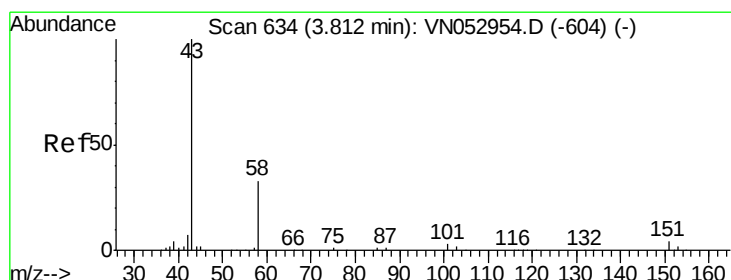
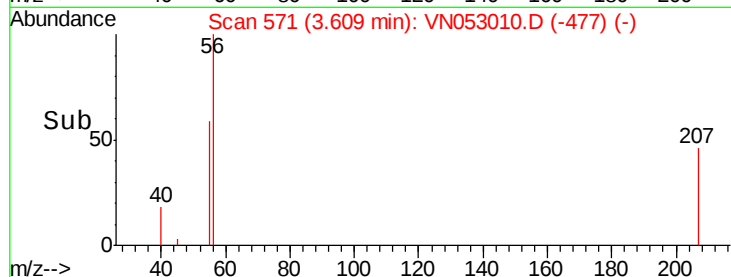
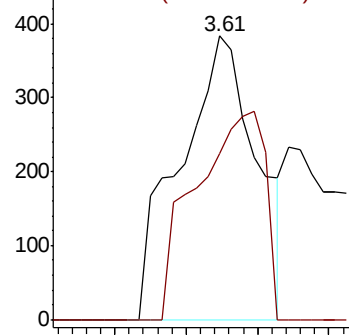
56 100

55 66.4 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 15.504 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053010.D

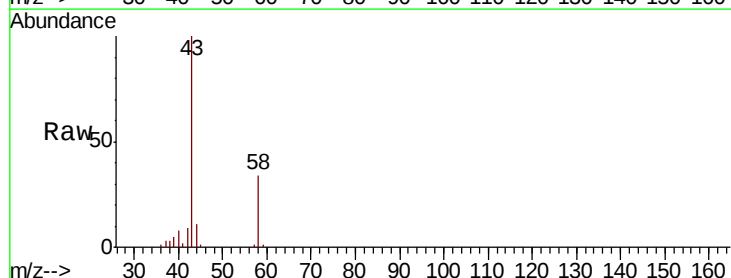
Acq: 19 Dec 2018 14:49

Tgt Ion: 43 Resp: 43083

Ion Ratio Lower Upper

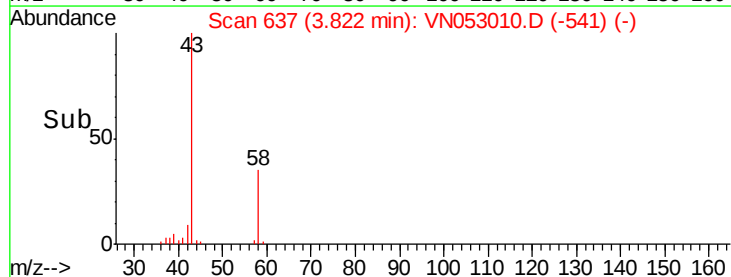
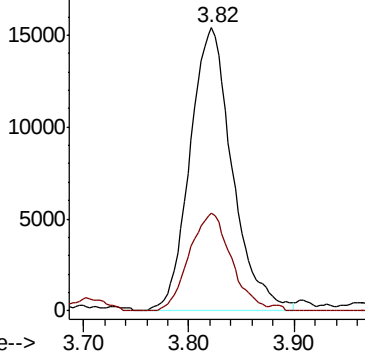
43 100

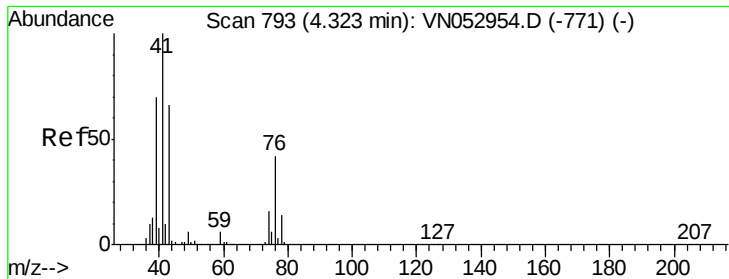
58 34.5 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

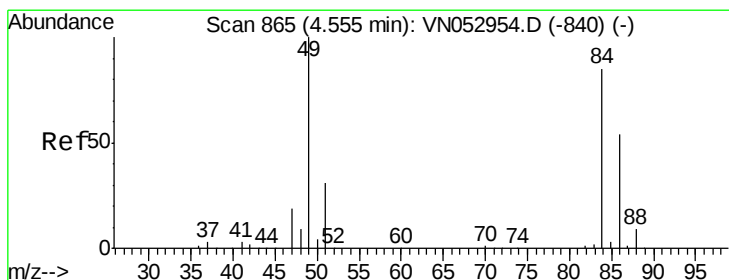
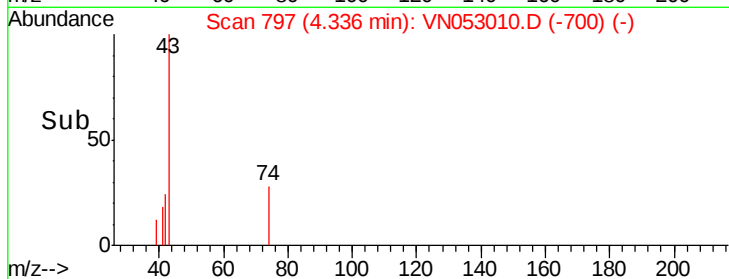
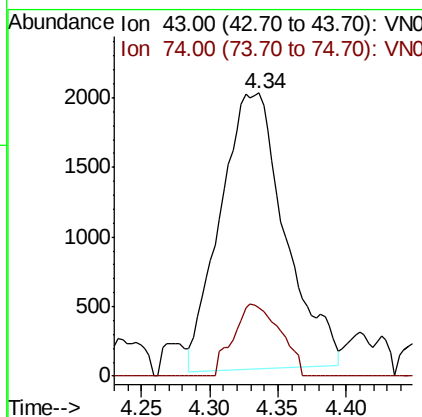
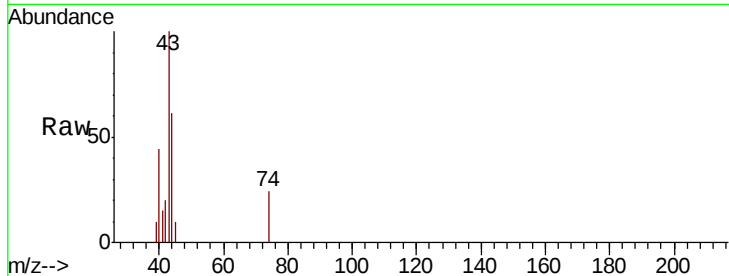




#18  
Methyl Acetate  
Concen: 1.500 ug/l  
RT: 4.34 min Scan# 797  
Delta R.T. 0.01 min  
Lab File: VN053010.D  
Acq: 19 Dec 2018 14:49

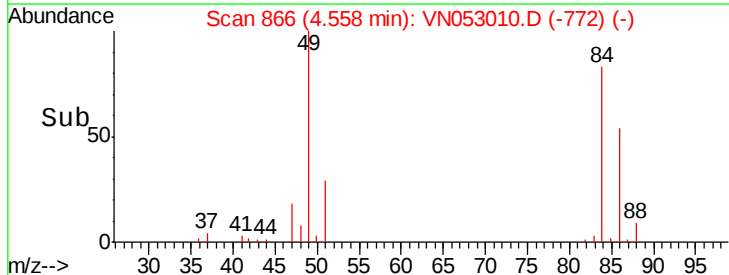
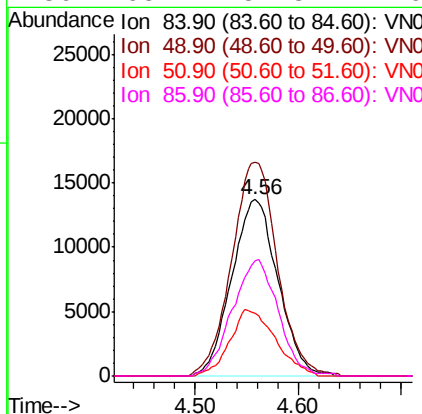
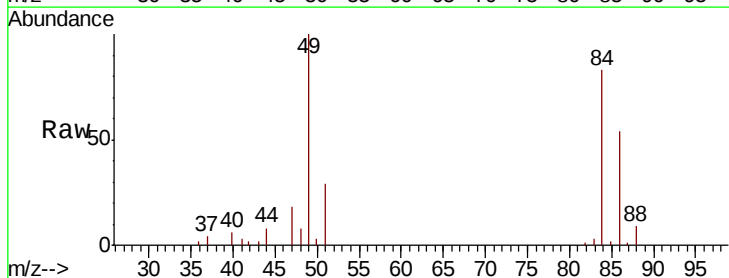
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB115821TB

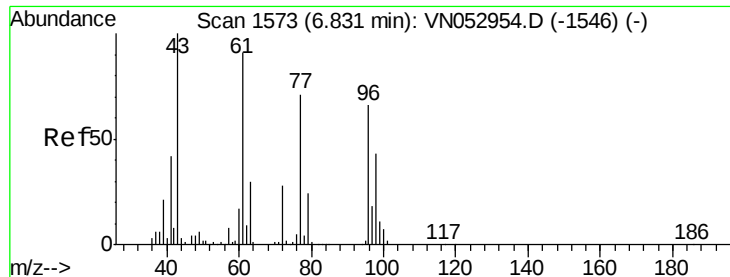
Tot Ion: 43 Resp: 6538  
Ion Ratio Lower Upper  
43 100  
74 18.8 19.2 28.8#



#20  
Methylene Chloride  
Concen: 2.815 ug/l  
RT: 4.56 min Scan# 866  
Delta R.T. 0.00 min  
Lab File: VN053010.D  
Acq: 19 Dec 2018 14:49

Tgt Ion: 84 Resp: 42664  
Ion Ratio Lower Upper  
84 100  
49 121.1 96.8 145.2  
51 35.6 29.9 44.9  
86 65.1 51.8 77.6





#25

2-Butanone

Concen: 0.419 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

Instrument :

MSVOA\_N

ClientSampleId :

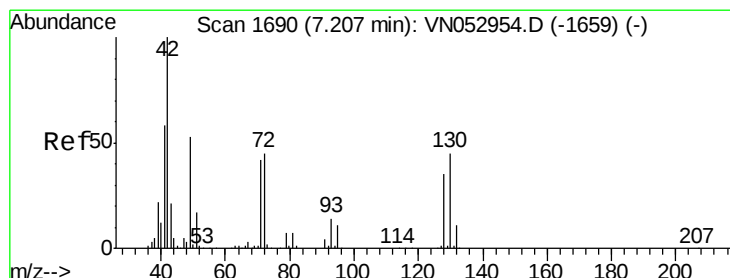
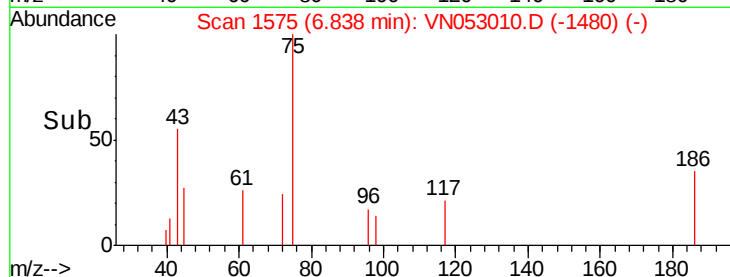
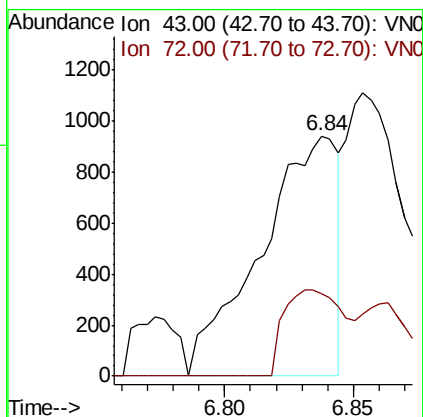
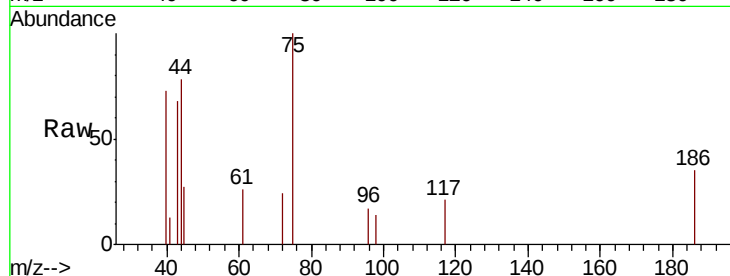
PB115821TB

Tot Ion: 43 Resp: 1956

Ion Ratio Lower Upper

43 100

72 34.5 21.0 31.6#



#29

Tetrahydrofuran

Concen: 0.601 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.02 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

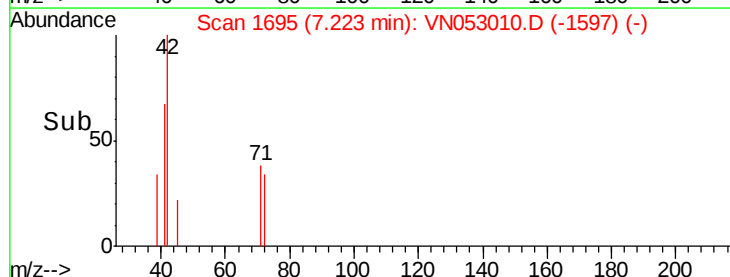
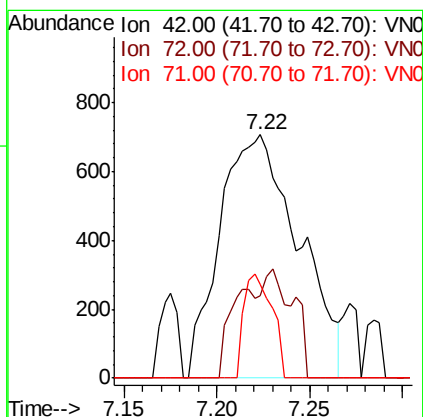
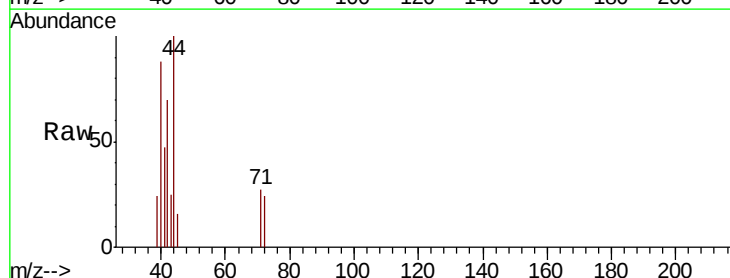
Tgt Ion: 42 Resp: 2092

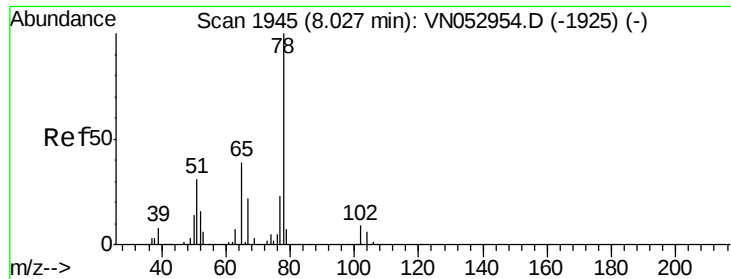
Ion Ratio Lower Upper

42 100

72 16.3 34.7 52.1#

71 15.2 32.3 48.5#

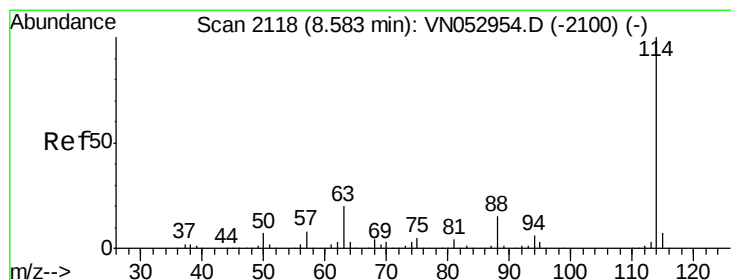
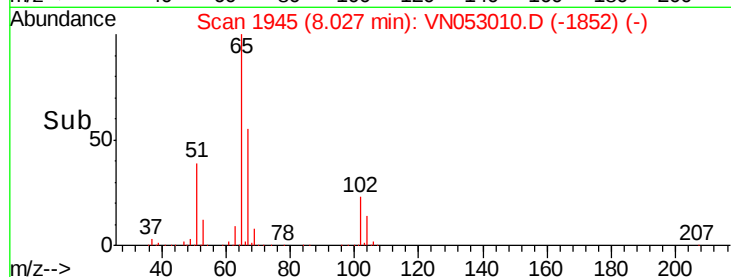
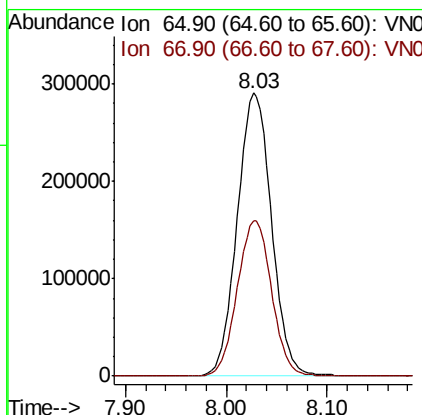
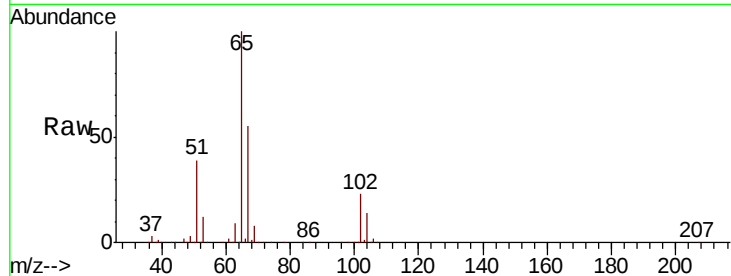




#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN053010.D  
 Acq: 19 Dec 2018 14:49

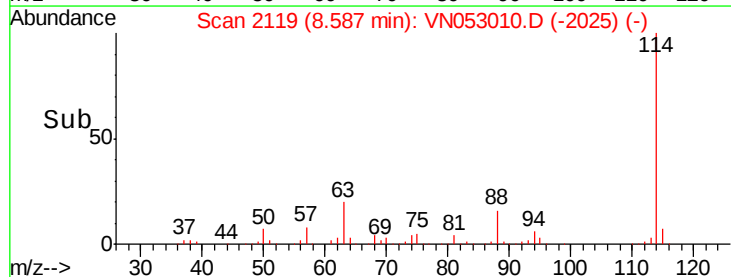
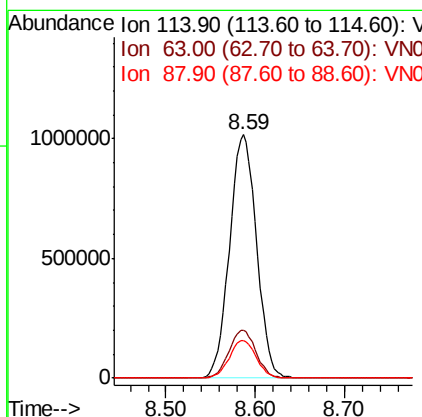
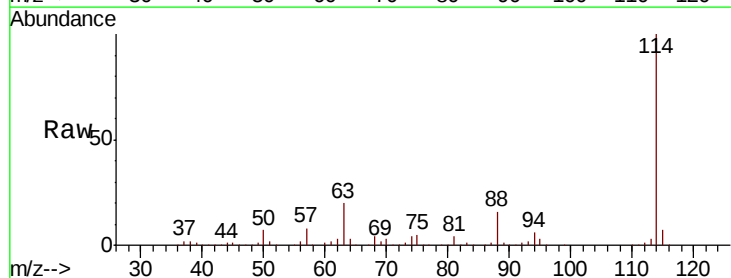
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 ClientSampleId :  
 PB115821TB

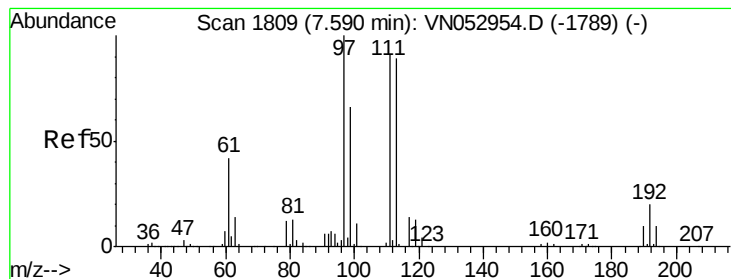
Tot Ion: 65 Resp: 684202  
 Ion Ratio Lower Upper  
 65 100  
 67 55.1 0.0 110.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN053010.D  
 Acq: 19 Dec 2018 14:49

Tgt Ion: 114 Resp: 2132086  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 39.8  
 88 15.7 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

Instrument :

MSVOA\_N

ClientSampled :

PB115821TB

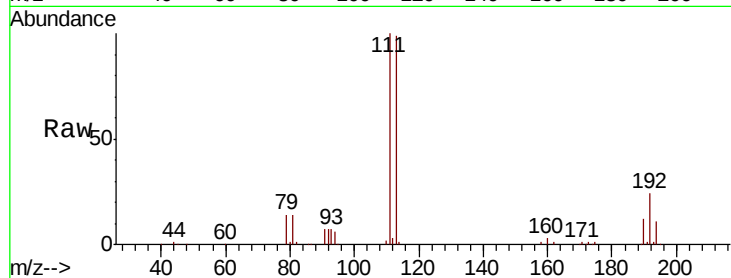
Tot Ion:113 Resp: 525403

Ion Ratio Lower Upper

113 100

111 101.7 83.0 124.4

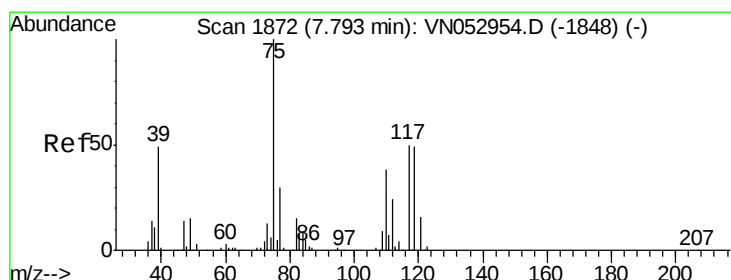
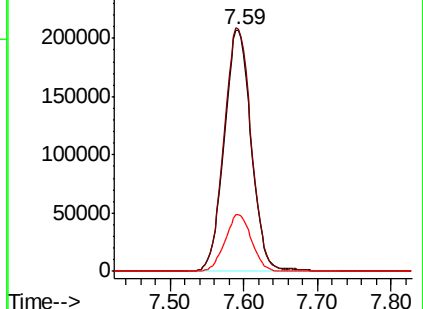
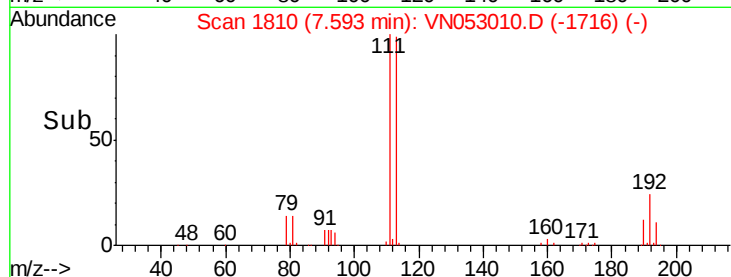
192 23.1 17.5 26.3



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: 4.412 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

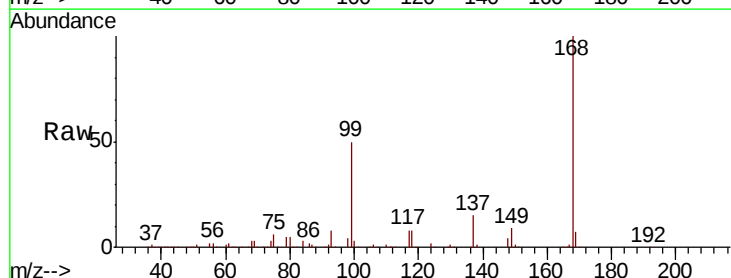
Tgt Ion: 75 Resp: 90282

Ion Ratio Lower Upper

75 100

110 9.0 18.2 54.6#

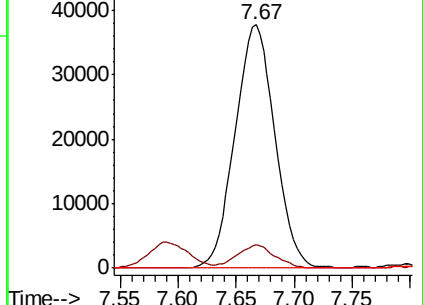
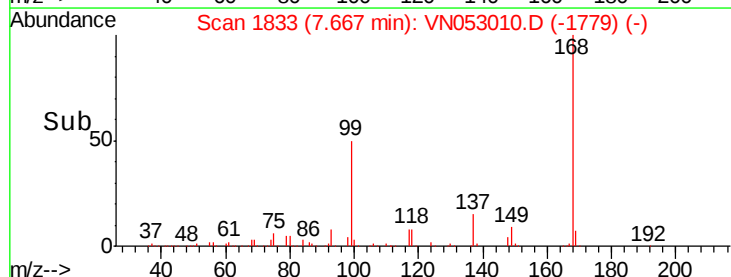
77 0.0 24.9 37.3#

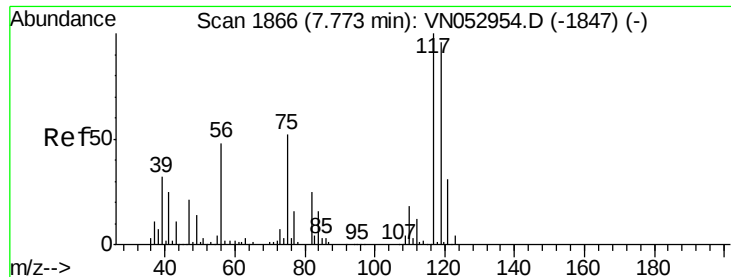


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.371 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

Instrument :

MSVOA\_N

ClientSampleId :

PB115821TB

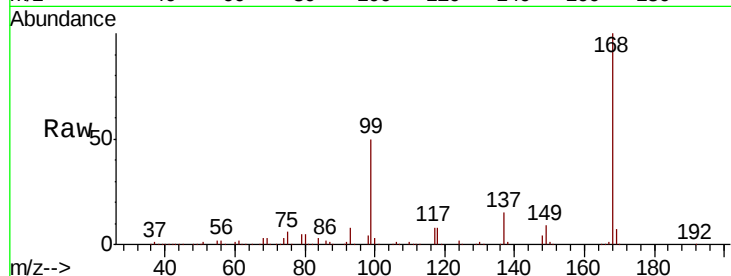
Tot Ion:117 Resp: 119507

Ion Ratio Lower Upper

117 100

119 4.4 77.1 115.7#

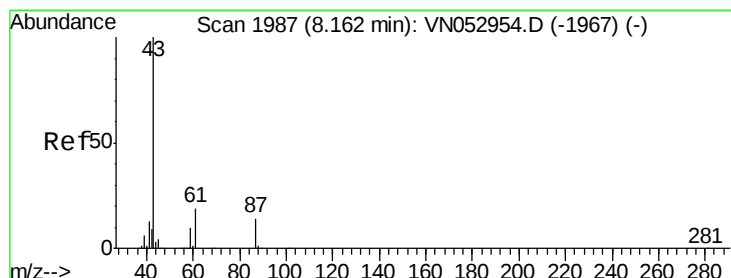
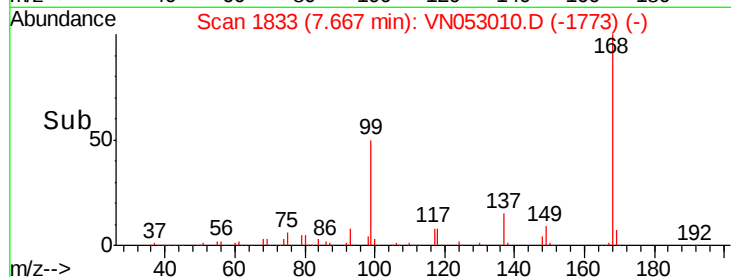
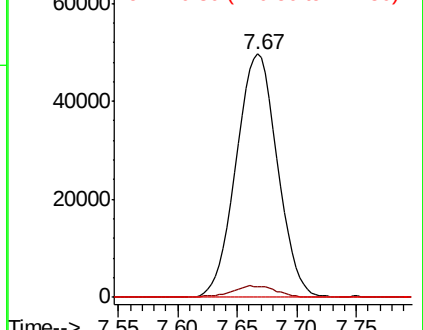
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.576 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

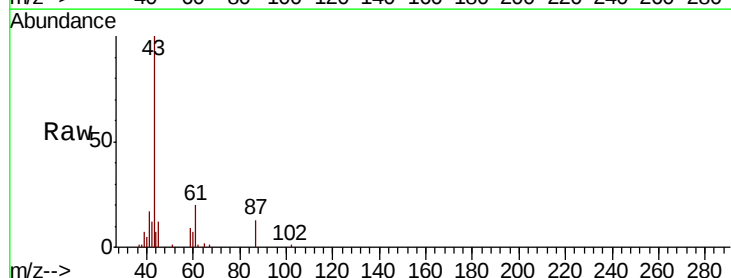
Tgt Ion: 43 Resp: 78860

Ion Ratio Lower Upper

43 100

61 17.3 22.9 34.3#

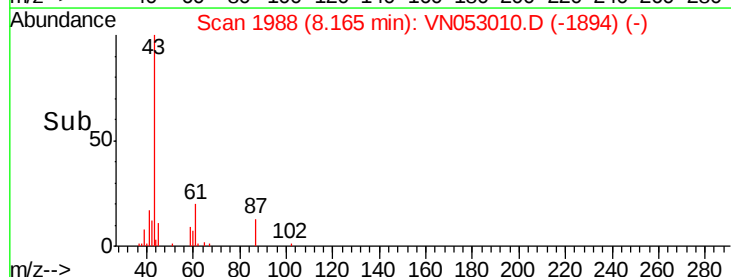
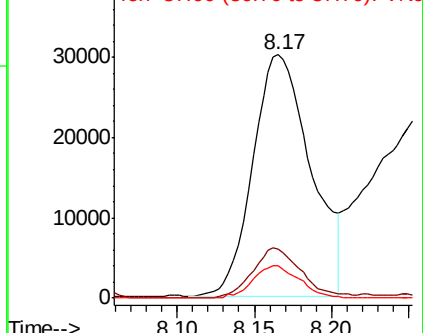
87 10.6 10.6 15.8

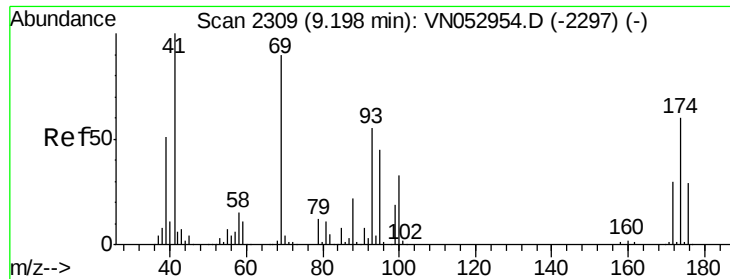


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

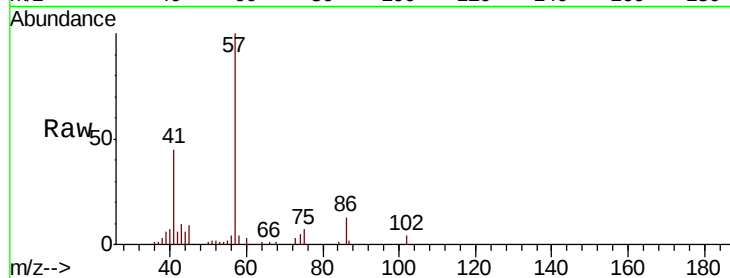




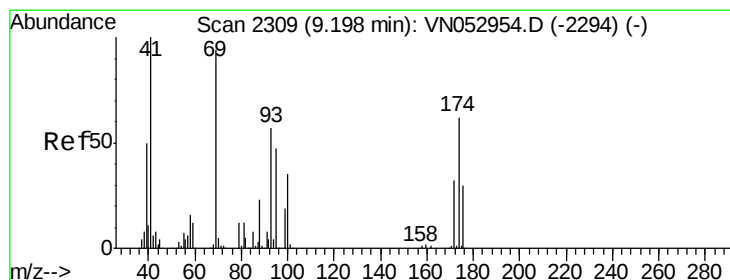
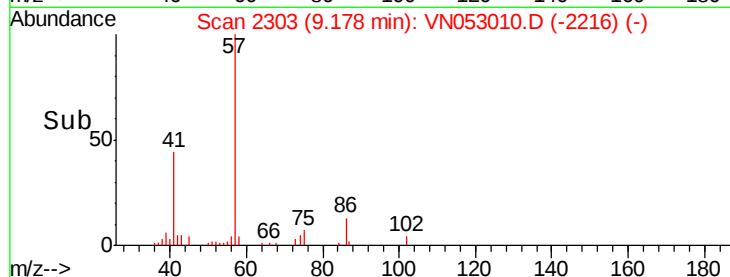
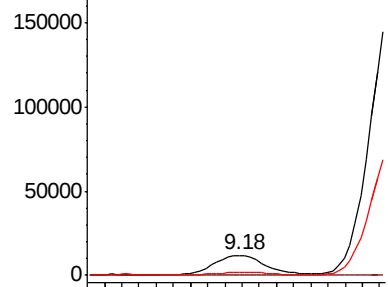
#48  
Methvl methacrylate  
Concen: 2.140 ug/l  
RT: 9.18 min Scan# 2303  
Delta R.T. -0.02 min  
Lab File: VN053010.D  
Acq: 19 Dec 2018 14:49

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB115821TB

Tot Ion: 41 Resp: 23726  
Ion Ratio Lower Upper  
41 100  
69 0.0 72.2 108.2#  
39 18.0 41.9 62.9#

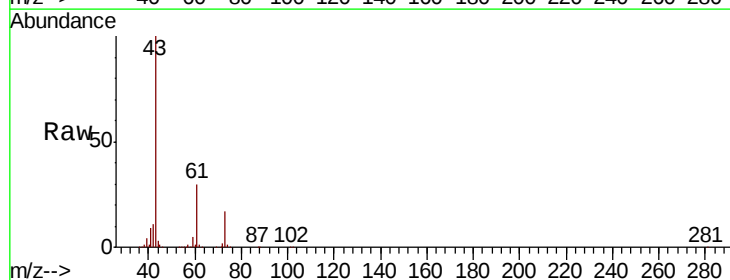


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

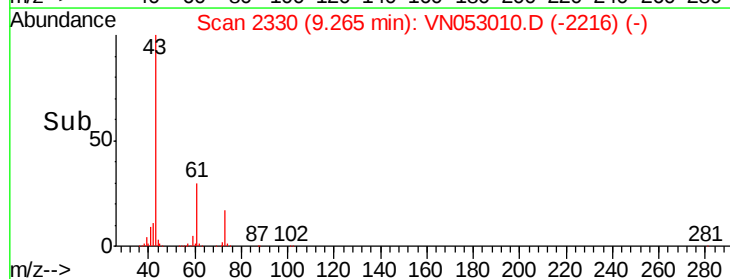
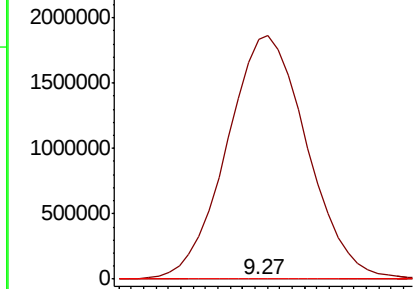


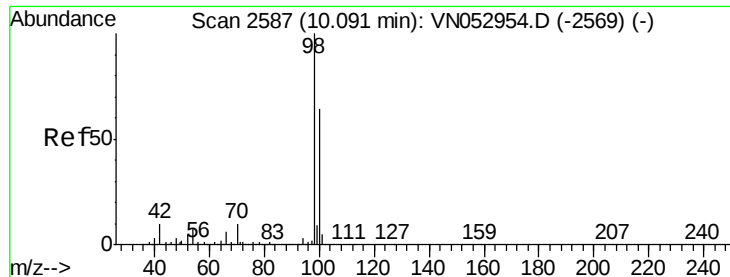
#49  
1,4-Dioxane  
Concen: 4.471 ug/l  
RT: 9.27 min Scan# 2330  
Delta R.T. 0.07 min  
Lab File: VN053010.D  
Acq: 19 Dec 2018 14:49

Tgt Ion: 88 Resp: 627  
Ion Ratio Lower Upper  
88 100  
43 540311.2 26.6 40.0#  
58 2203.5 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 4.471 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

Instrument :

MSVOA\_N

ClientSampleId :

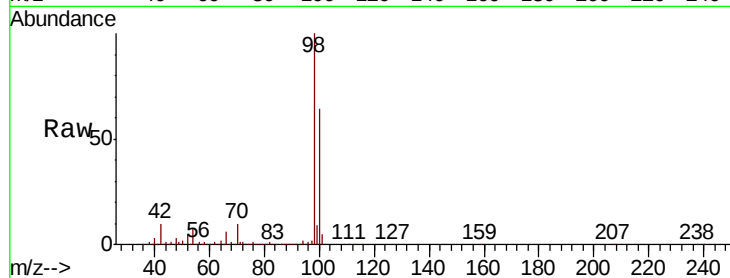
PB115821TB

Tot Ion: 98 Resp: 2640099

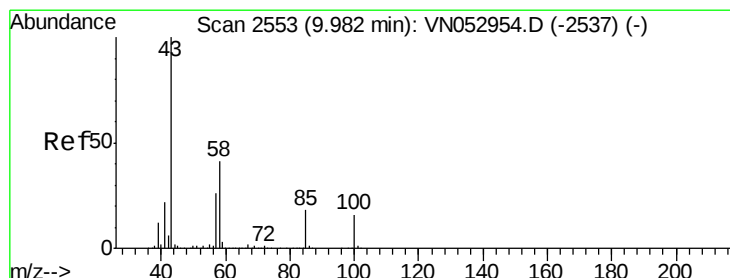
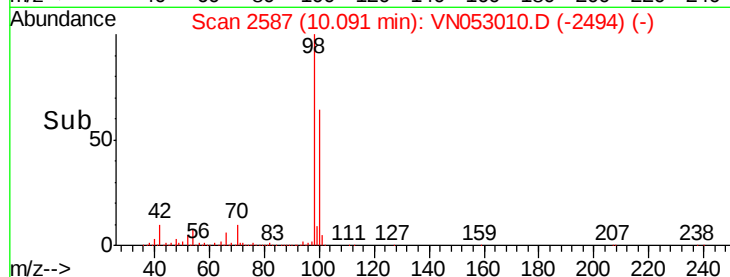
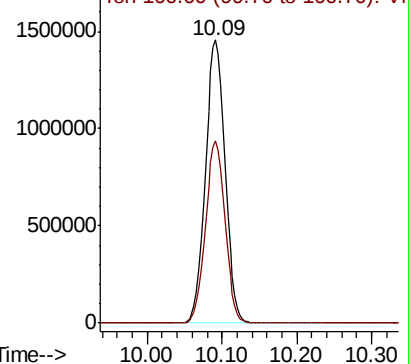
Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN052954.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.045 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053010.D

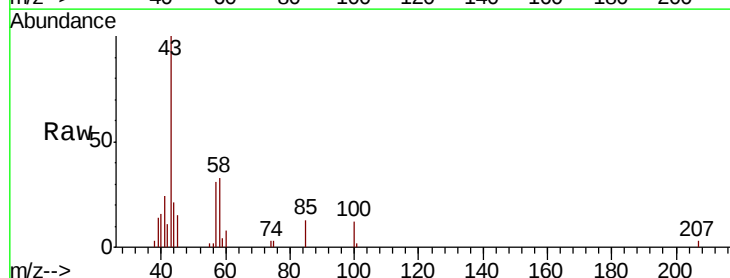
Acq: 19 Dec 2018 14:49

Tgt Ion: 43 Resp: 11559

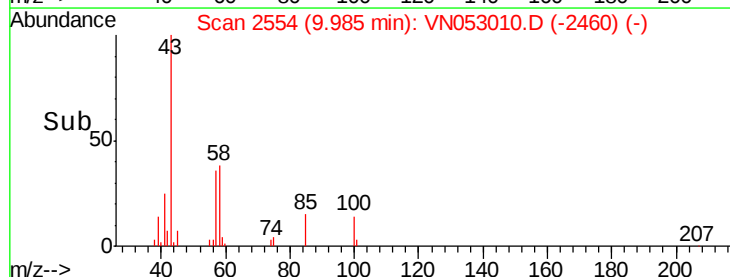
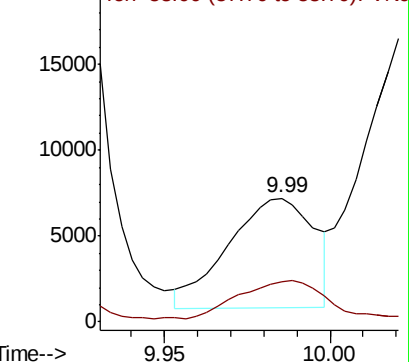
Ion Ratio Lower Upper

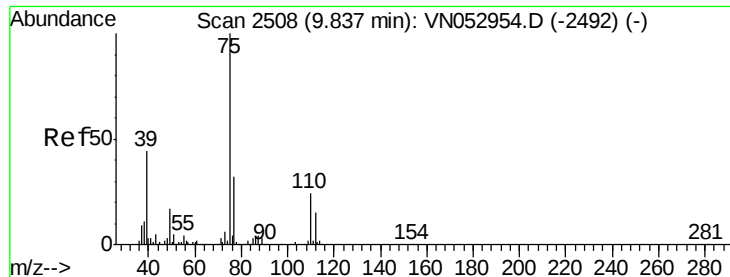
43 100

58 42.9 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-2537) (-)





#54

cis-1,3-Dichloropropene

Concen: 8.401 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

Instrument :

MSVOA\_N

ClientSampleId :

PB115821TB

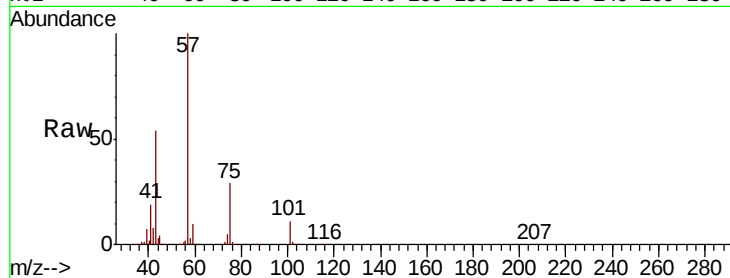
Tot Ion: 75 Resp: 199080

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

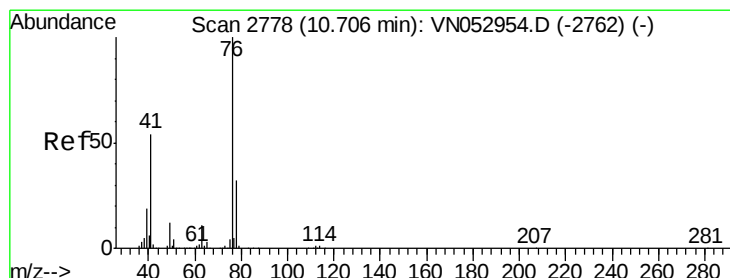
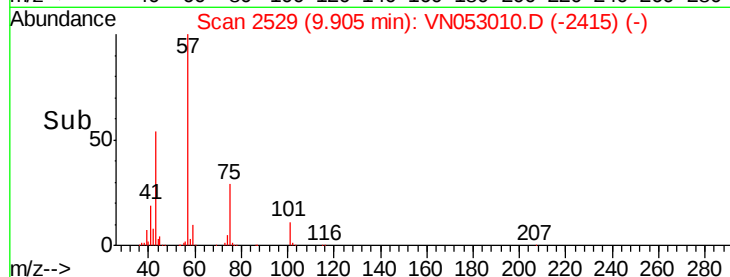
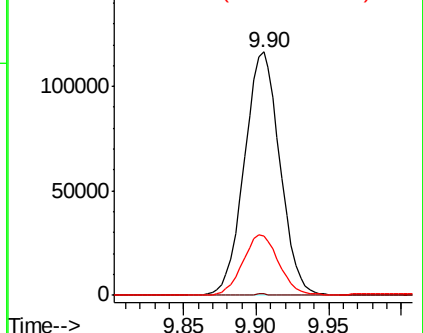
39 24.4 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.586 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053010.D

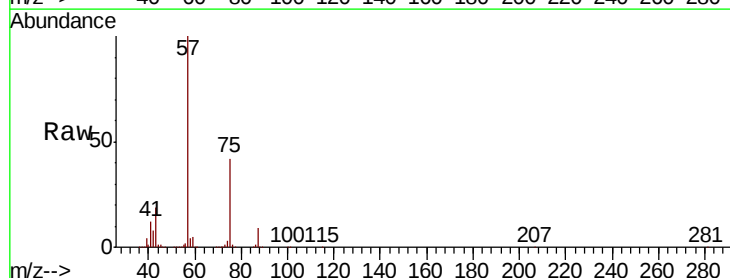
Acq: 19 Dec 2018 14:49

Tgt Ion: 76 Resp: 35803

Ion Ratio Lower Upper

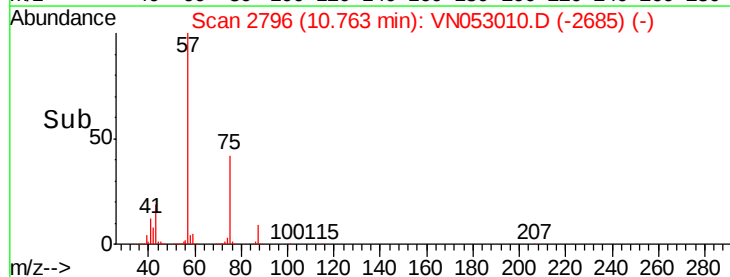
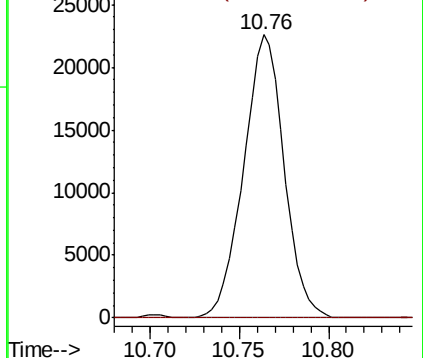
76 100

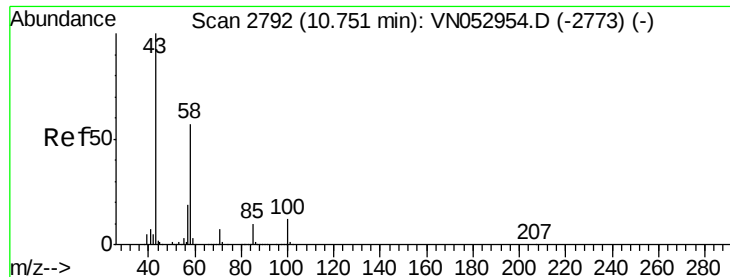
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

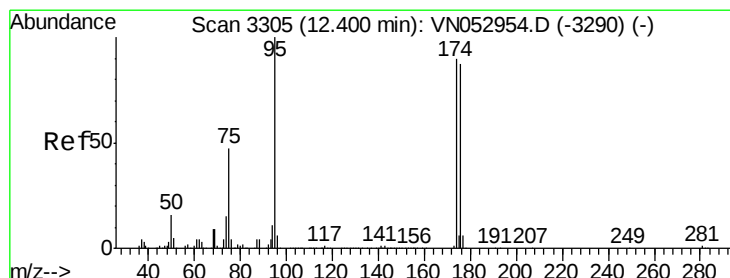
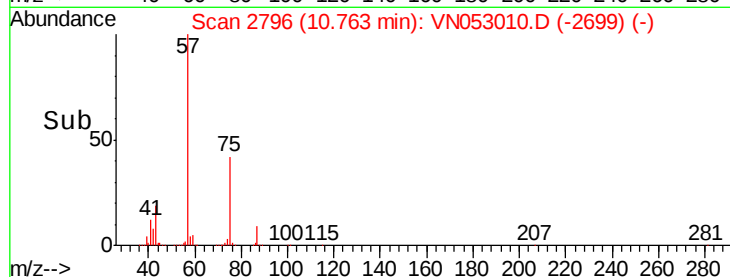
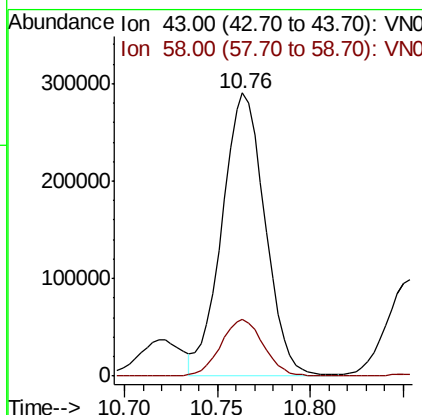
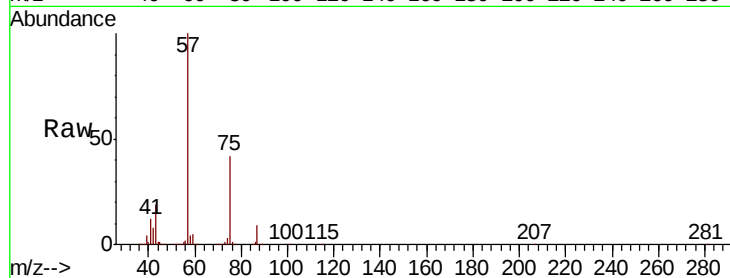




#59  
2-Hexanone  
Concen: 62.391 ug/l  
RT: 10.76 min Scan# 2796  
Delta R.T. 0.01 min  
Lab File: VN053010.D  
Acq: 19 Dec 2018 14:49

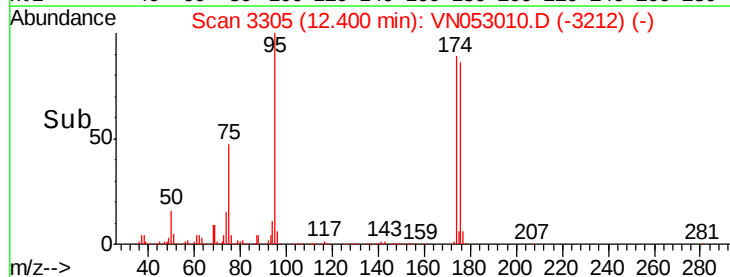
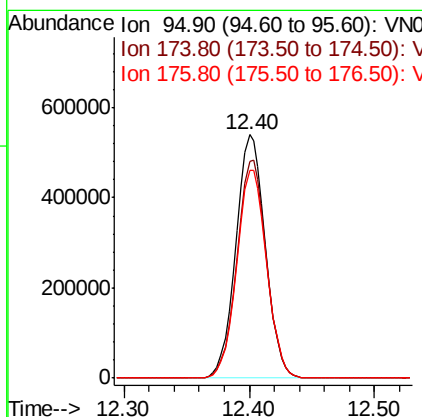
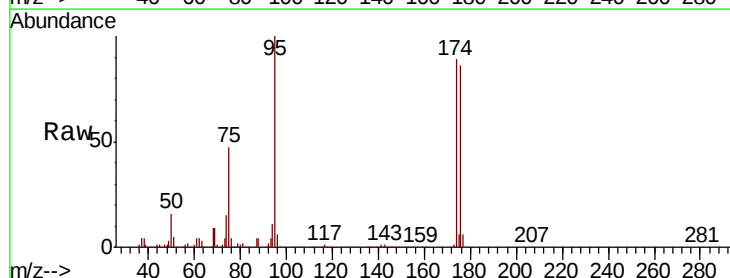
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB115821TB

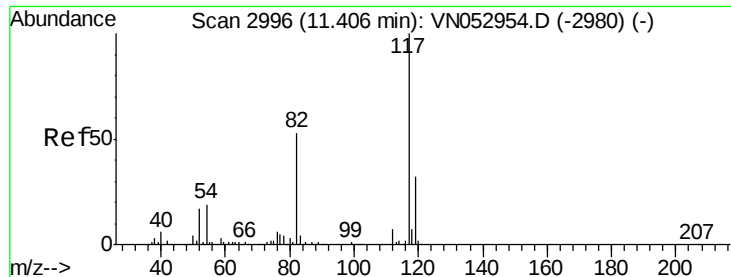
Tot Ion: 43 Resp: 467015  
Ion Ratio Lower Upper  
43 100  
58 20.1 28.1 84.3#



#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN053010.D  
Acq: 19 Dec 2018 14:49

Tgt Ion: 95 Resp: 876795  
Ion Ratio Lower Upper  
95 100  
174 89.8 0.0 178.8  
176 87.0 0.0 173.8

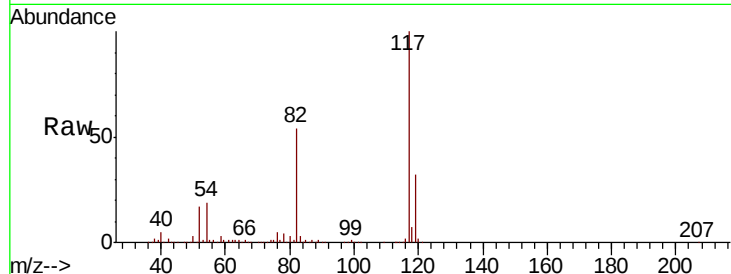




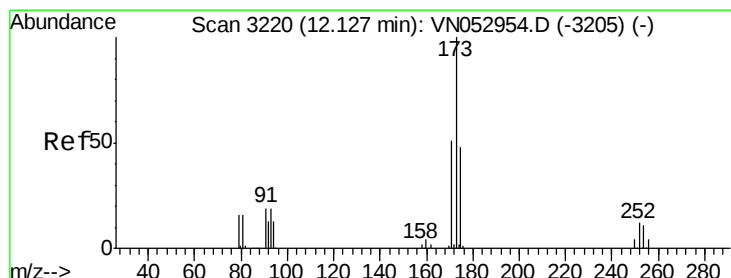
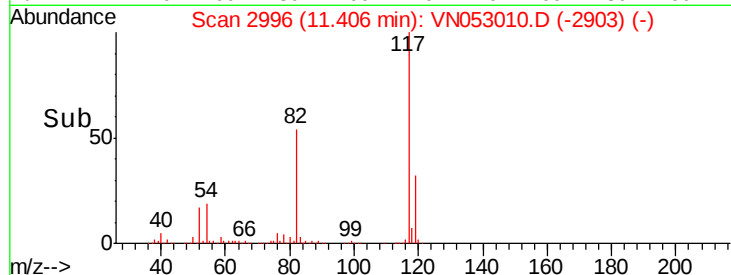
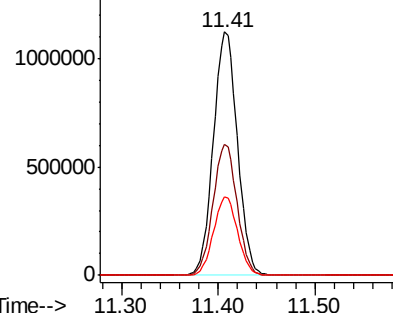
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN053010.D  
Acq: 19 Dec 2018 14:49

Instrument :  
MSVOA\_N  
ClientSampled :  
PB115821TB

Tot Ion:117 Resp: 1936366  
Ion Ratio Lower Upper  
117 100  
82 53.9 42.8 64.2  
119 32.0 25.5 38.3

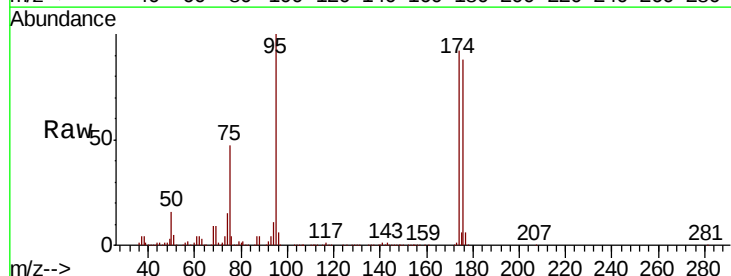


Abundance Ion 116.90 (116.60 to 117.60): V  
1500000 Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

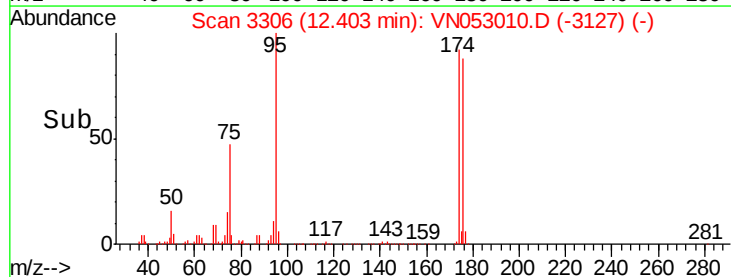
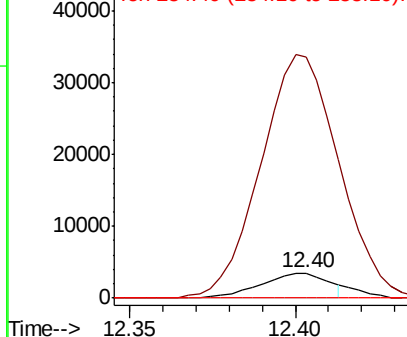


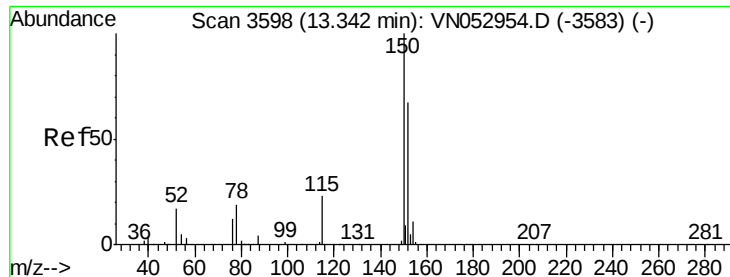
#71  
Bromoform  
Concen: 0.456 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.28 min  
Lab File: VN053010.D  
Acq: 19 Dec 2018 14:49

Tgt Ion:173 Resp: 4912  
Ion Ratio Lower Upper  
173 100  
175 998.3 24.3 72.9#  
254 0.0 0.1 0.1#



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# 3598

Delta R.T. -0.00 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

Instrument :

MSVOA\_N

ClientSampleId :

PB115821TB

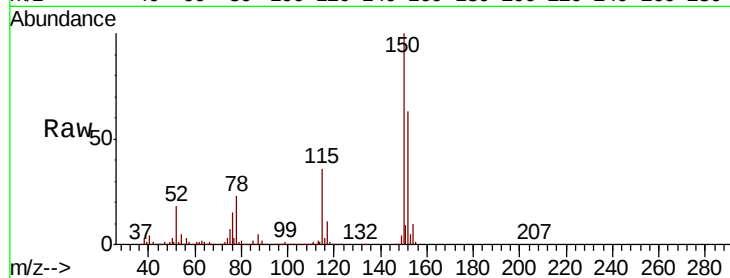
Tot Ion:152 Resp: 786863

Ion Ratio Lower Upper

152 100

115 56.1 28.3 85.0

150 157.1 0.0 347.8

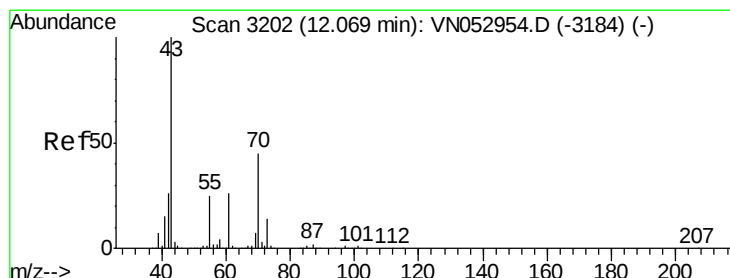
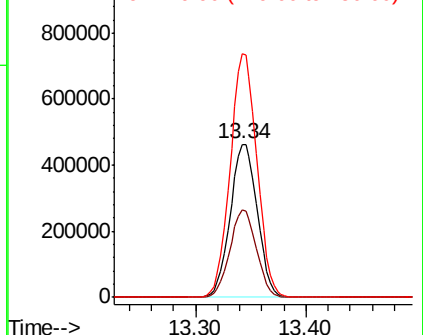
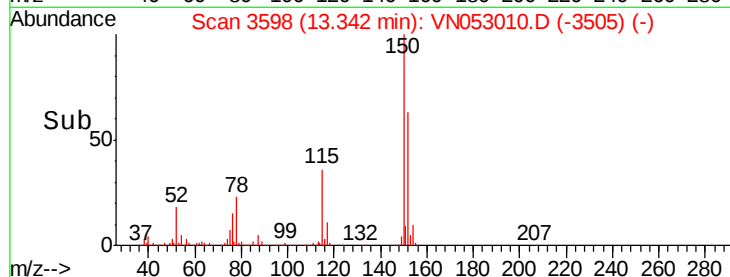


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.751 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

Tgt Ion: 43 Resp: 64109

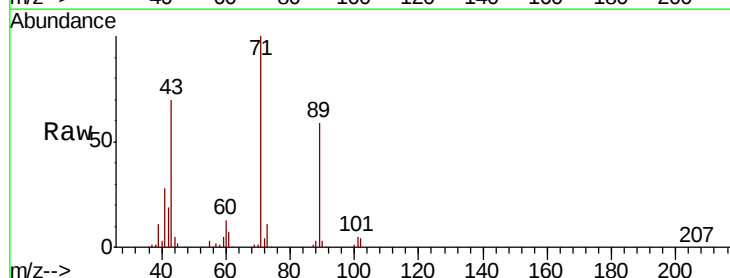
Ion Ratio Lower Upper

43 100

70 1.8 34.2 51.4#

55 3.9 20.3 30.5#

61 10.0 20.0 30.0#



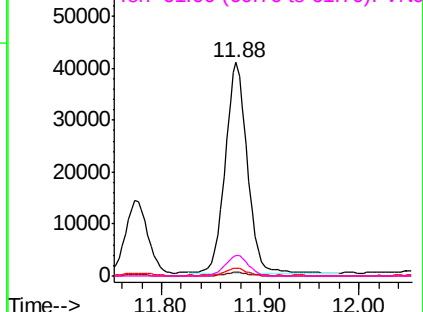
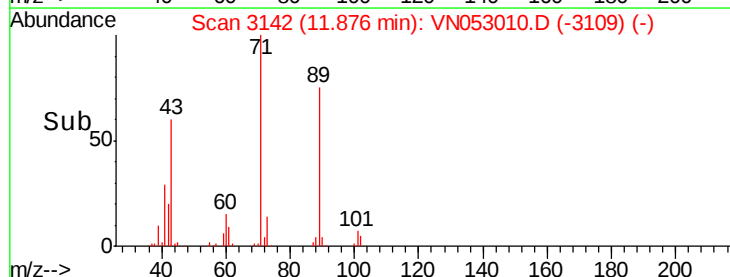
Abundance

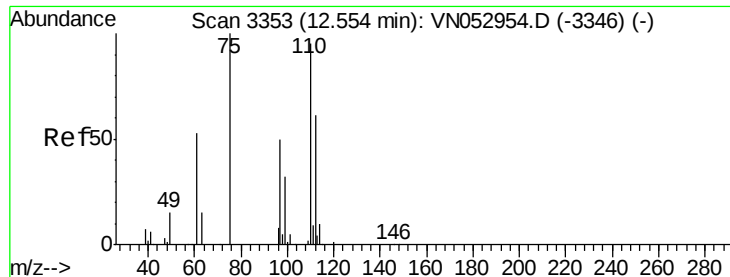
Ion 43.00 (42.70 to 43.70): V

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: 31.072 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

Instrument :

MSVOA\_N

ClientSampleId :

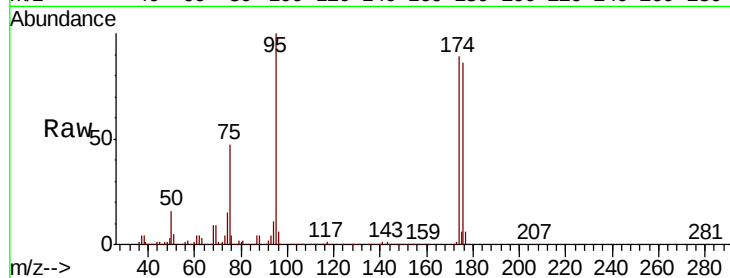
PB115821TB

Tot Ion: 75 Resp: 411584

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053010.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN053010.D (-3260) (-)

12.40

250000

200000

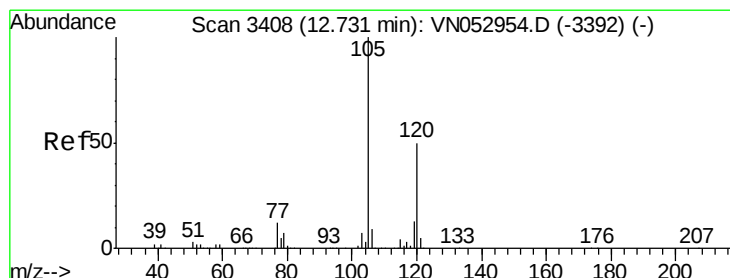
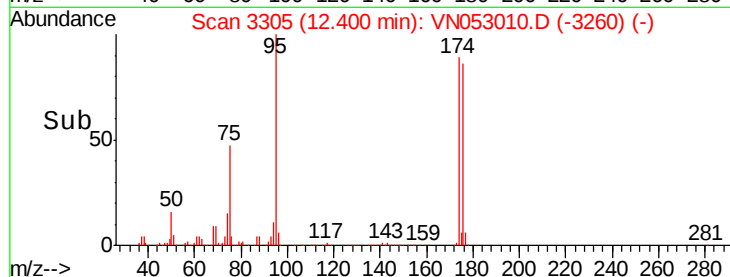
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.785 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053010.D

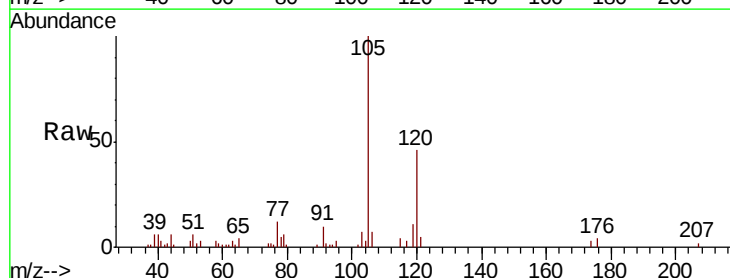
Acq: 19 Dec 2018 14:49

Tgt Ion: 105 Resp: 39414

Ion Ratio Lower Upper

105 100

120 47.2 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN053010.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN053010.D (-3315) (-)

12.73

30000

25000

20000

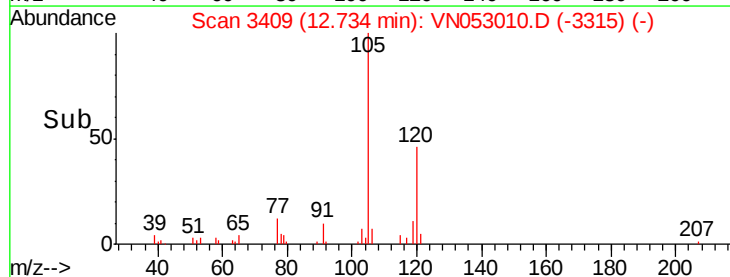
15000

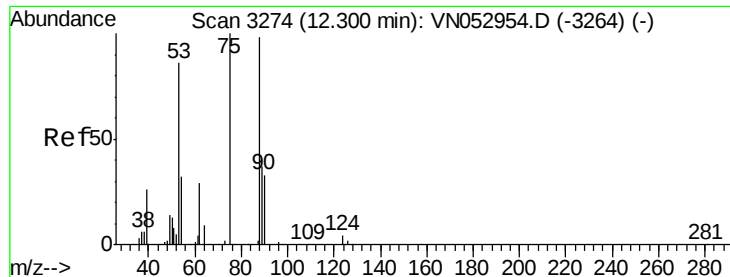
10000

5000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 100.150 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

Instrument :

MSVOA\_N

ClientSampleId :

PB115821TB

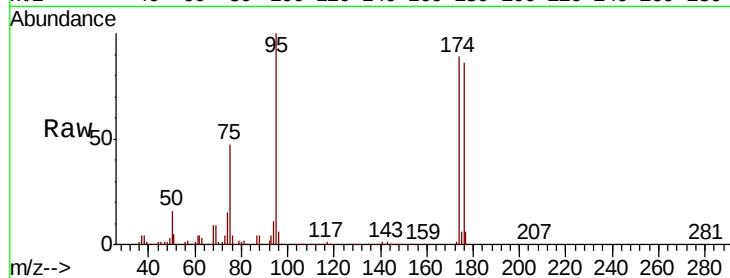
Tot Ion: 75 Resp: 411584

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

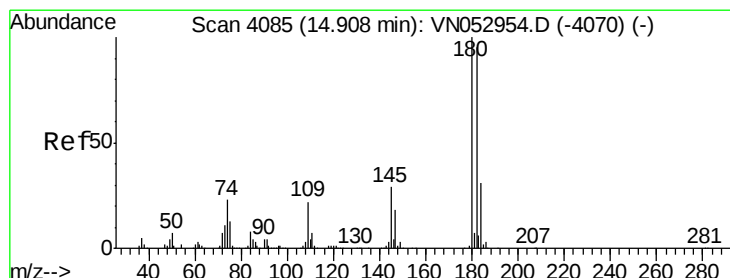
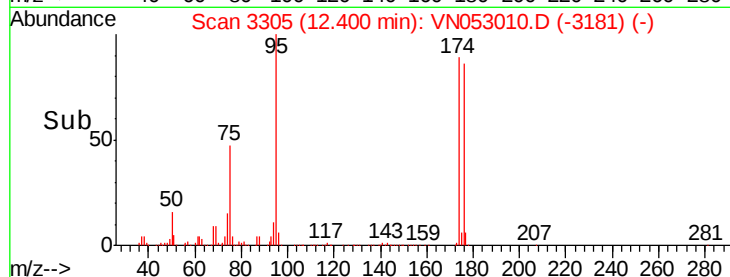
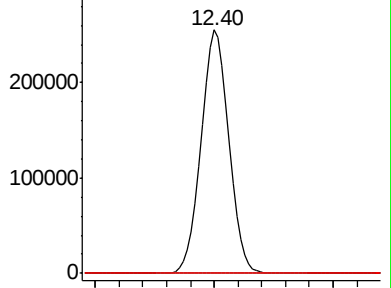
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052954.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052954.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.952 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053010.D

Acq: 19 Dec 2018 14:49

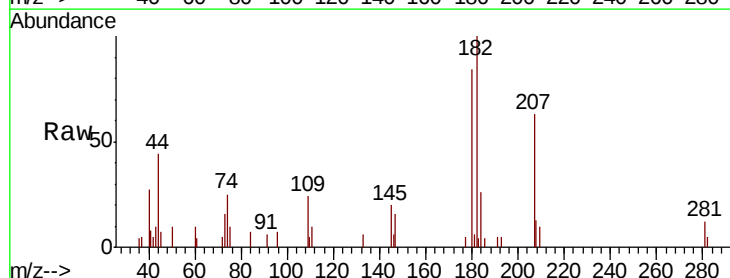
Tgt Ion:180 Resp: 5085

Ion Ratio Lower Upper

180 100

182 105.8 47.8 143.3

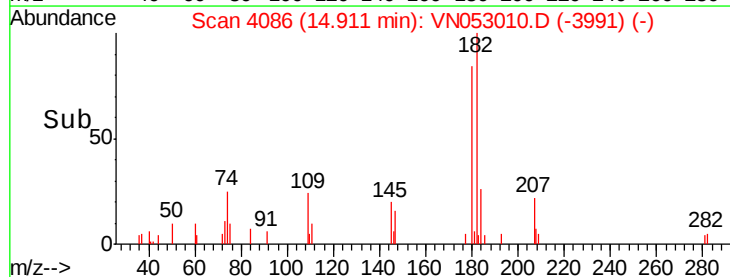
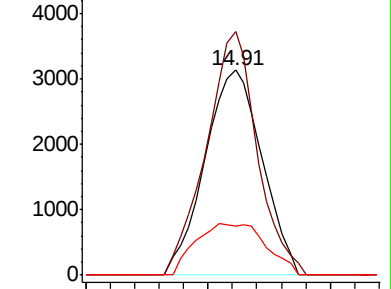
145 30.7 14.2 42.6

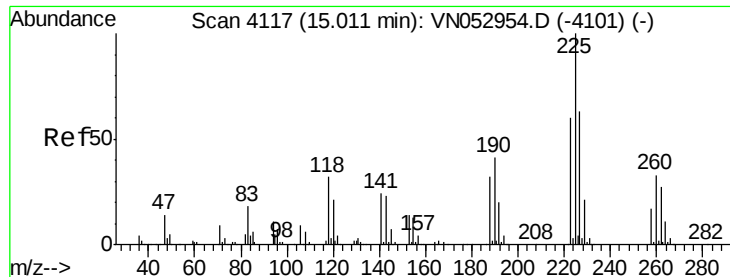


Abundance Ion 179.80 (179.50 to 180.50): VN052954.D (-4070) (-)

Ion 181.80 (181.50 to 182.50): VN052954.D (-4070) (-)

Ion 144.80 (144.50 to 145.50): VN052954.D (-4070) (-)

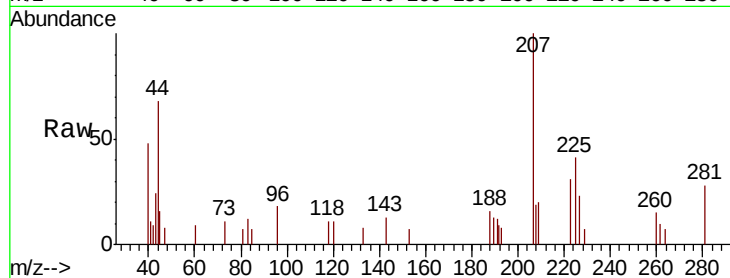




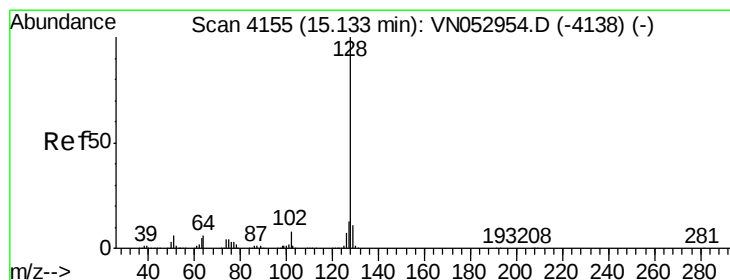
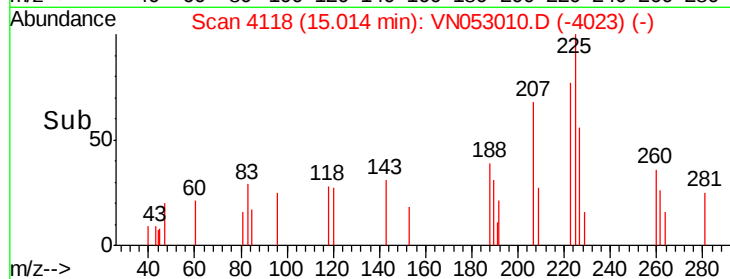
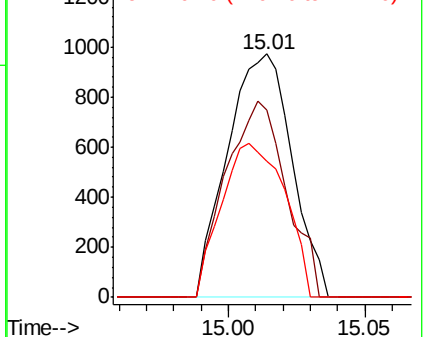
#94  
Hexachlorobutadiene  
Concen: Below Cal  
RT: 15.01 min Scan# 4118  
Delta R.T. 0.00 min  
Lab File: VN053010.D  
Acq: 19 Dec 2018 14:49

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB115821TB

Tot Ion:225 Resp: 1598  
Ion Ratio Lower Upper  
225 100  
223 75.7 31.5 94.5  
227 62.5 31.9 95.7

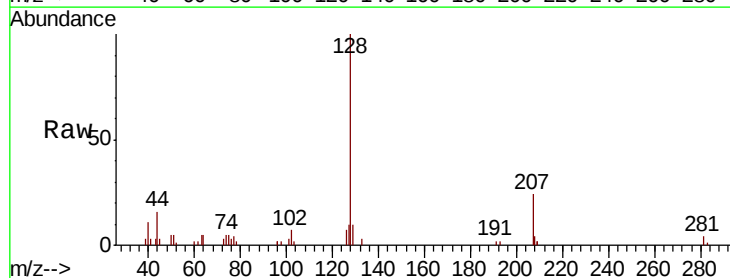


Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V

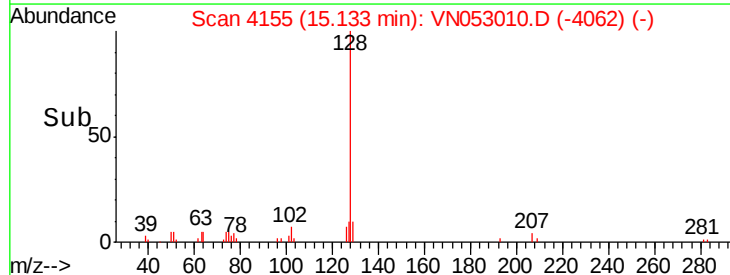
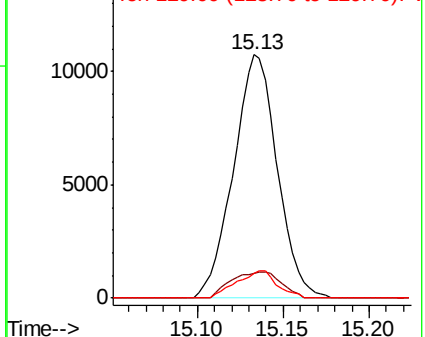


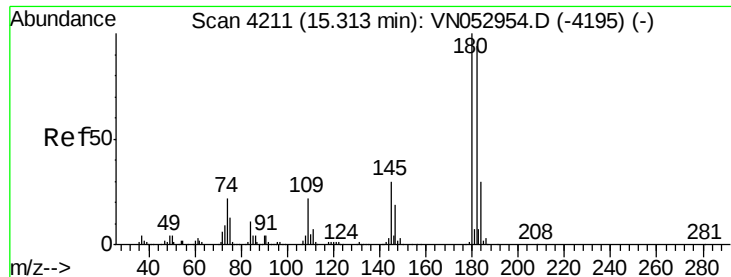
#95  
Naphthalene  
Concen: 1.746 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN053010.D  
Acq: 19 Dec 2018 14:49

Tgt Ion:128 Resp: 18966  
Ion Ratio Lower Upper  
128 100  
127 12.3 10.2 15.4  
129 10.4 8.6 13.0



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: 0.981 ug/l  
 RT: 15.31 min Scan# 4211  
 Delta R.T. 0.00 min  
 Lab File: VN053010.D  
 Acq: 19 Dec 2018 14:49

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB115821TB

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 88.5  | 47.9  | 143.7 |
| 145     | 32.0  | 15.0  | 45.0  |

