

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021219\  
 Data File : VN053725.D  
 Acq On : 12 Feb 2019 12:52  
 Operator : JC/SP  
 Sample : K1457-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IDW-SOIL-01

Quant Time: Feb 13 04:13:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 01 09:11:52 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 816004   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1301627  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1217075  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 551140   | 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   | 420773   | 51.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.80% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 411257   | 50.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.00% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1604854  | 51.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.94% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 554566   | 53.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.68% |          |

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether              | 3.41  | 74   | 10510    | 2.257   | ug/l   | 90     |
| 13) Acrolein                  | 3.57  | 56   | 1825     | 6.919   | ug/l # | 1      |
| 14) Allyl chloride            | 4.55  | 41   | 310429   | 25.802  | ug/l # | 29     |
| 15) Acrylonitrile             | 5.06  | 53   | 5431     | 2.077   | ug/l # | 33     |
| 16) Acetone                   | 3.82  | 43   | 37020    | 17.631  | ug/l # | 74     |
| 18) Methyl Acetate            | 4.60  | 43   | 242537   | 39.003  | ug/l # | 51     |
| 20) Methylene Chloride        | 4.55  | 84   | 6245584  | 708.975 | ug/l   | 99     |
| 25) 2-Butanone                | 6.84  | 43   | 9090     | 3.035   | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.21  | 42   | 880      | 0.458   | ug/l # | 79     |
| 31) Cyclohexane               | 7.66  | 56   | 94351    | 6.668   | ug/l # | 87     |
| 36) 1,1-Dichloropropene       | 7.67  | 75   | 49276    | 4.200   | ug/l # | 51     |
| 38) Carbon Tetrachloride      | 7.67  | 117  | 65638    | 5.553   | ug/l # | 15     |
| 39) Methylcyclohexane         | 9.08  | 83   | 71332    | 5.124   | ug/l   | 98     |
| 41) Methacrylonitrile         | 7.22  | 41   | 2302     | 0.629   | ug/l # | 44     |
| 43) Isopropyl Acetate         | 8.17  | 43   | 40090    | 3.168   | ug/l # | 78     |
| 48) Methyl methacrylate       | 9.18  | 41   | 9140     | 1.513   | ug/l # | 12     |
| 51) 4-Methyl-2-Pentanone      | 10.02 | 43   | 9458     | 1.521   | ug/l # | 34     |
| 52) Toluene                   | 10.16 | 92   | 224759   | 10.466  | ug/l   | 99     |
| 53) t-1,3-Dichloropropene     | 10.15 | 75   | 2367     | 0.204   | ug/l # | 1      |
| 54) cis-1,3-Dichloropropene   | 9.90  | 75   | 77268    | 5.614   | ug/l # | 60     |
| 55) 1,1,2-Trichloroethane     | 10.53 | 97   | 7670     | 0.991   | ug/l # | 19     |
| 57) 1,3-Dichloropropane       | 10.76 | 76   | 16144    | 1.221   | ug/l # | 43     |
| 58) 2-Chloroethyl Vinyl ether | 9.67  | 63   | 91       | 8.024   | ug/l # | 48     |
| 59) 2-Hexanone                | 10.76 | 43   | 206653   | 48.948  | ug/l # | 50     |
| 67) Ethyl Benzene             | 11.51 | 91   | 1041607  | 24.528  | ug/l   | 100    |
| 68) m/p-Xylenes               | 11.62 | 106  | 845572   | 52.170  | ug/l   | 100    |
| 69) o-Xylene                  | 11.95 | 106  | 192045   | 12.265  | ug/l   | 99     |
| 70) Styrene                   | 11.95 | 104  | 11638    | 0.459   | ug/l # | 1      |
| 71) Bromoform                 | 12.40 | 173  | 3677     | 0.594   | ug/l # | 1      |
| 73) Isopropylbenzene          | 12.25 | 105  | 109723   | 2.832   | ug/l   | 100    |
| 76) 1,2,3-Trichloropropane    | 12.40 | 75   | 254112   | 35.896  | ug/l # | 100    |
| 78) n-propylbenzene           | 12.59 | 91   | 294319   | 6.571   | ug/l   | 99     |
| 79) 2-Chlorotoluene           | 12.65 | 91   | 109977   | 4.139   | ug/l # | 39     |
| 80) 1,3,5-Trimethylbenzene    | 12.73 | 105  | 452057   | 14.070  | ug/l   | 100    |

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 Quant Title : SW846 8260  
 QLast Update : Fri Feb 01 09:11:52 2019  
 Response via : Initial Calibration

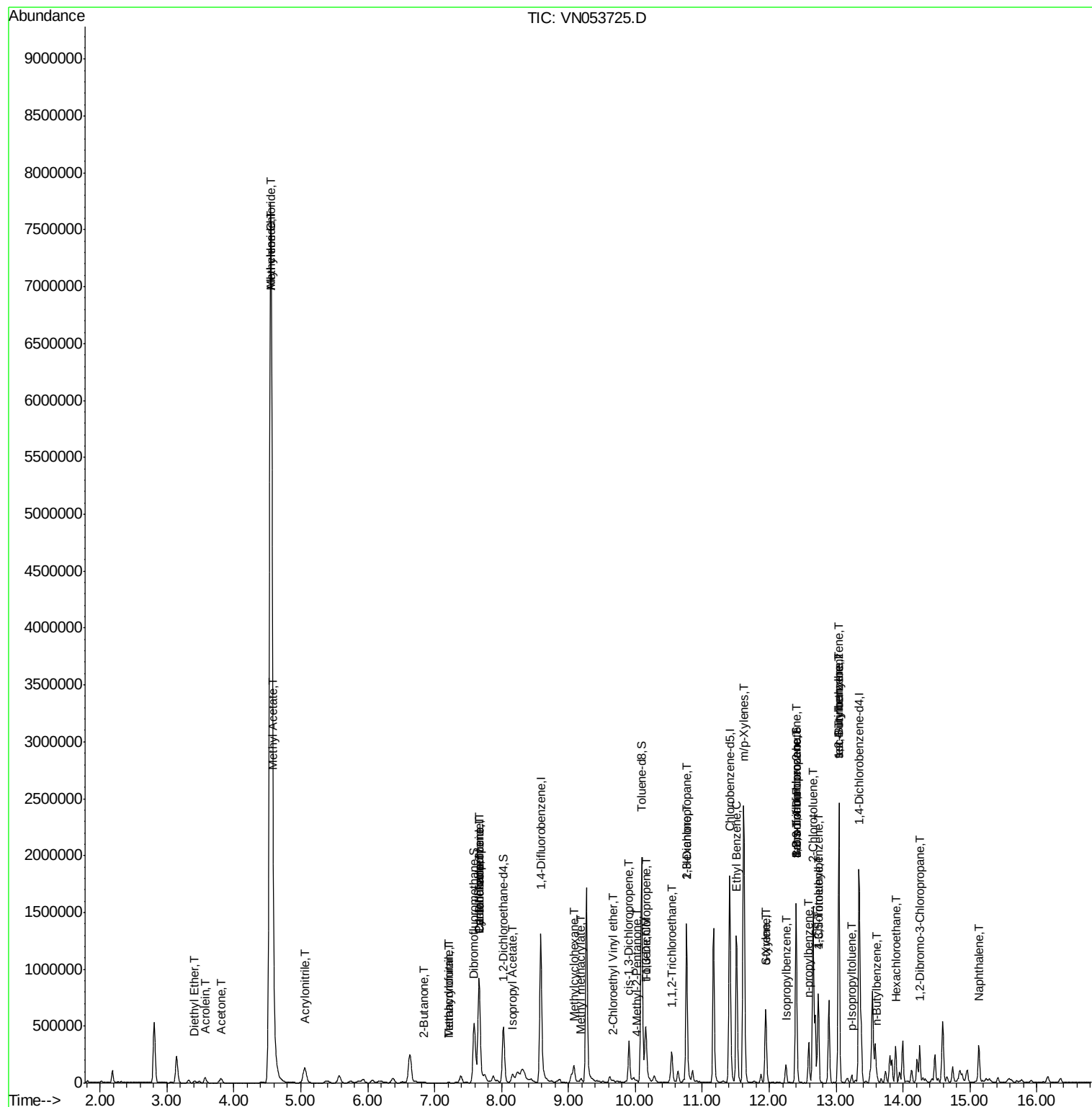
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 254112   | 100.938 | ug/l # | 15       |
| 82) 4-Chlorotoluene            | 12.73 | 91   | 45621    | 1.673   | ug/l # | 39       |
| 83) tert-Butylbenzene          | 13.04 | 119  | 181114   | 6.378   | ug/l # | 70       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 1450876  | 44.325  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.04 | 105  | 1450876  | 37.547  | ug/l # | 56       |
| 86) p-Isopropyltoluene         | 13.23 | 119  | 40094    | 1.186   | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.61 | 91   | 22682    | 0.775   | ug/l # | 58       |
| 90) Hexachloroethane           | 13.89 | 117  | 17721    | 3.179   | ug/l # | 3        |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 1370     | 1.037   | ug/l # | 1        |
| 95) Naphthalene                | 15.13 | 128  | 288080   | 13.222  | ug/l   | 100      |

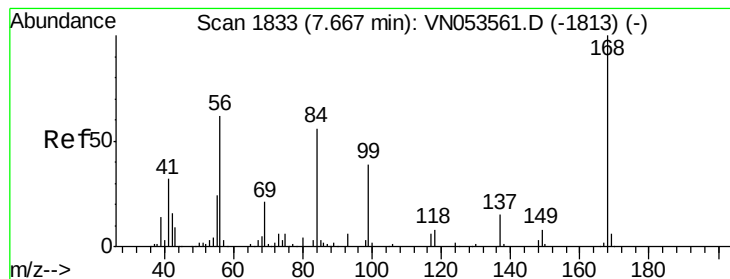
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampleId :

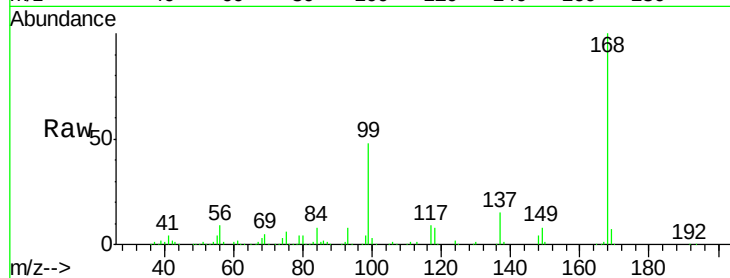
IDW-SOIL-01

Tot Ion:168 Resp: 816004

Ion Ratio Lower Upper

168 100

99 47.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

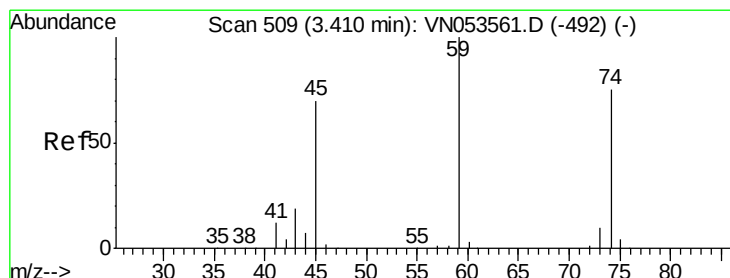
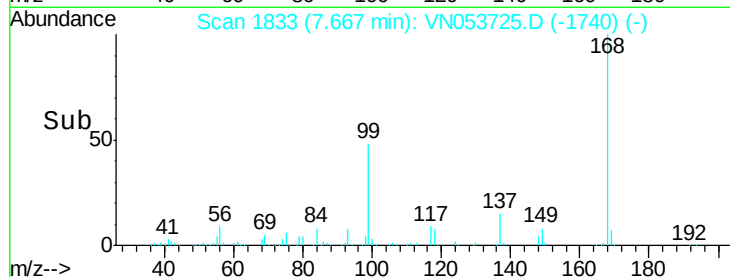
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 2.257 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN053725.D

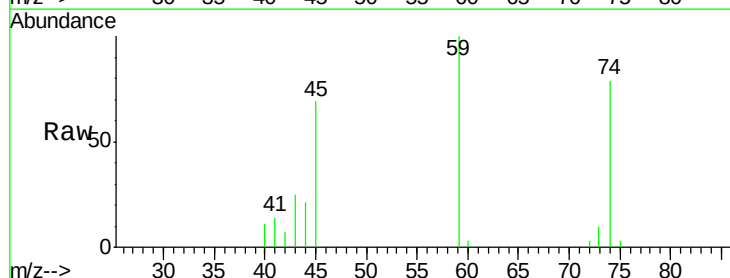
Acq: 12 Feb 2019 12:52

Tgt Ion: 74 Resp: 10510

Ion Ratio Lower Upper

74 100

45 105.1 47.9 143.7



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

3.41

5000

4000

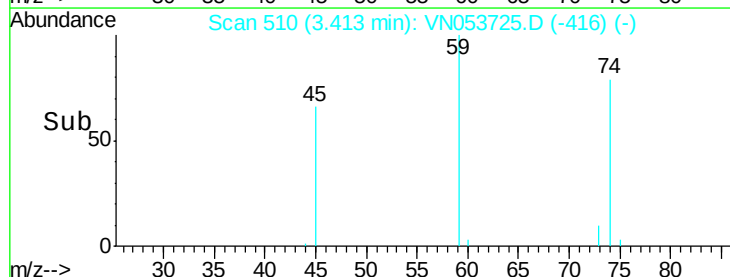
3000

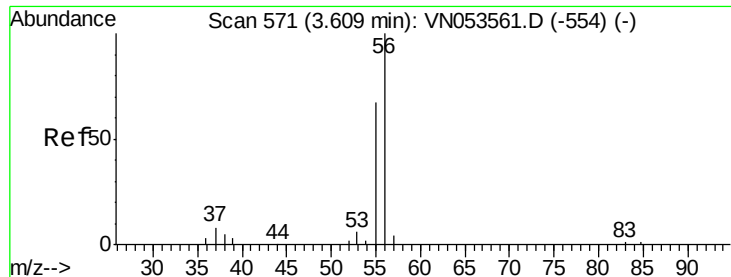
2000

1000

0

Time-->





#13

Acrolein

Concen: 6.919 ug/l

RT: 3.57 min Scan# 559

Delta R.T. -0.04 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampleId :

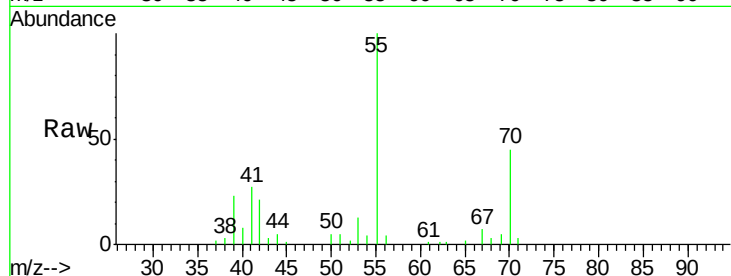
IDW-SOIL-01

Tot Ion: 56 Resp: 1825

Ion Ratio Lower Upper

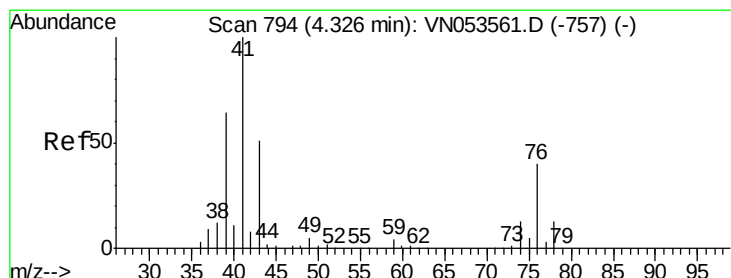
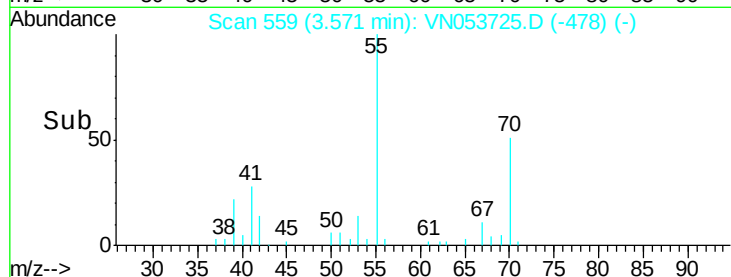
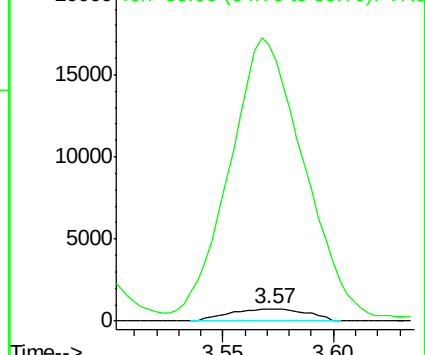
56 100

55 2189.6 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 25.802 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.23 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

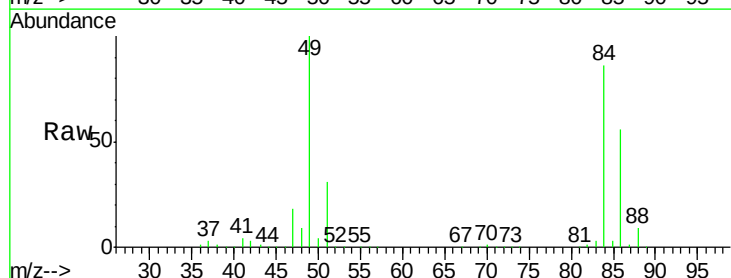
Tgt Ion: 41 Resp: 310429

Ion Ratio Lower Upper

41 100

39 3.1 48.9 73.3#

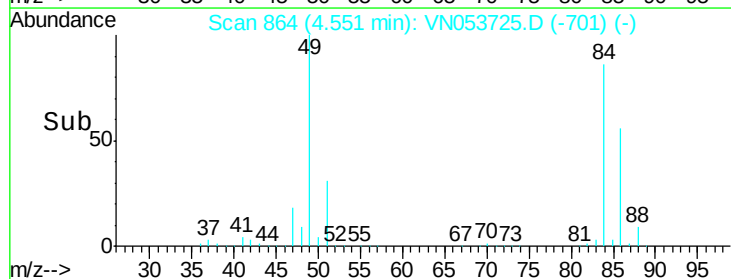
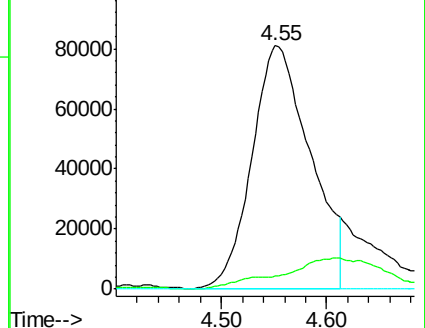
76 0.0 29.4 44.2#

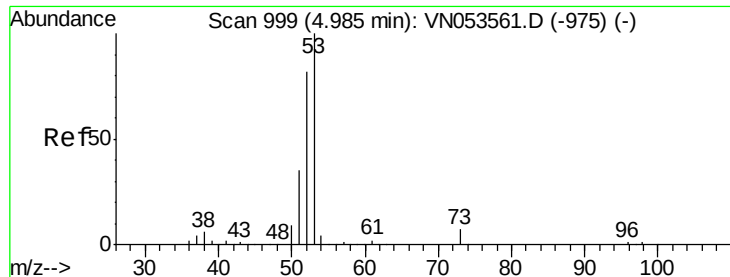


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 2.077 ug/l

RT: 5.06 min Scan# 1023

Delta R.T. 0.08 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

IDW-SOIL-01

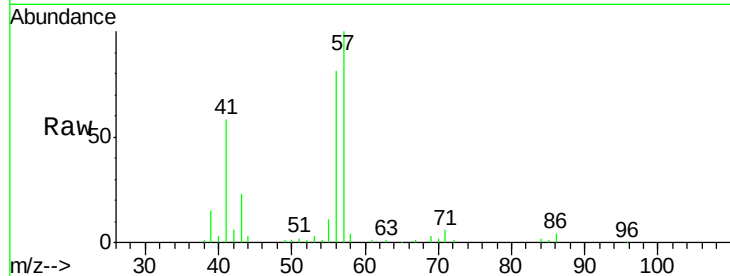
Tot Ion: 53 Resp: 5431

Ion Ratio Lower Upper

53 100

52 8.1 66.0 99.0#

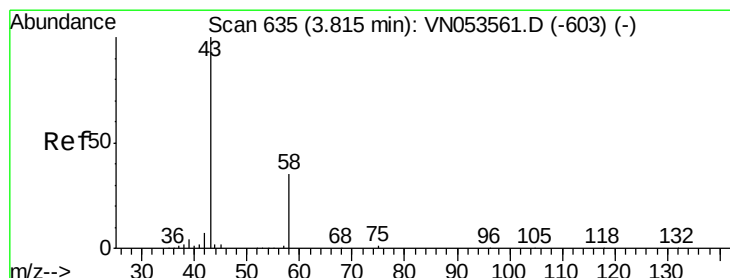
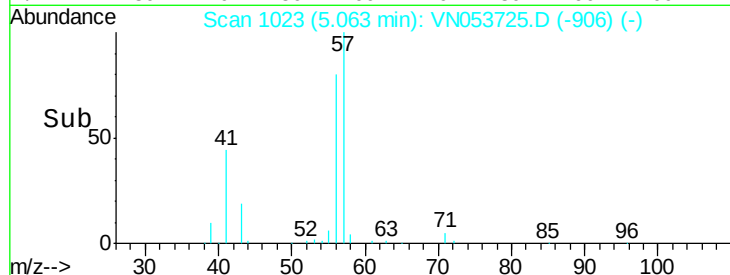
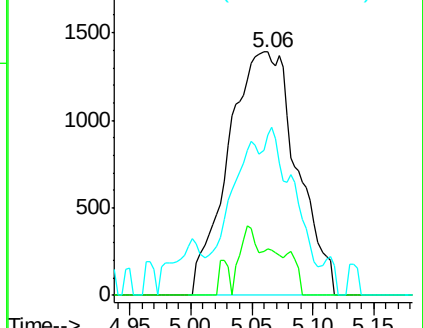
51 17.6 28.3 42.5#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 17.631 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053725.D

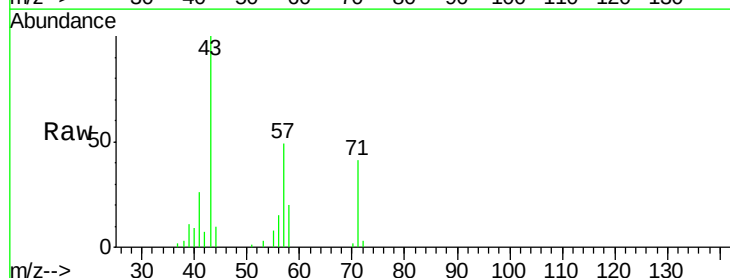
Acq: 12 Feb 2019 12:52

Tgt Ion: 43 Resp: 37020

Ion Ratio Lower Upper

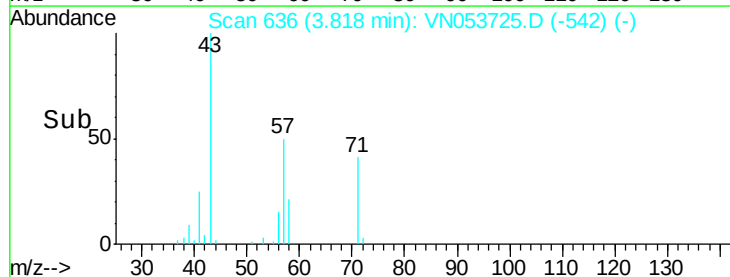
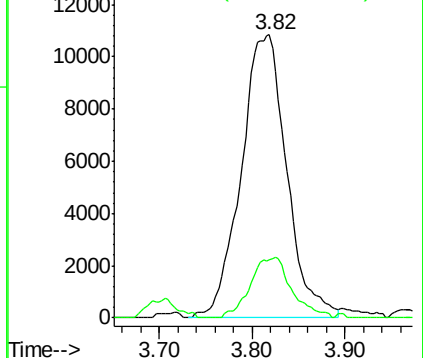
43 100

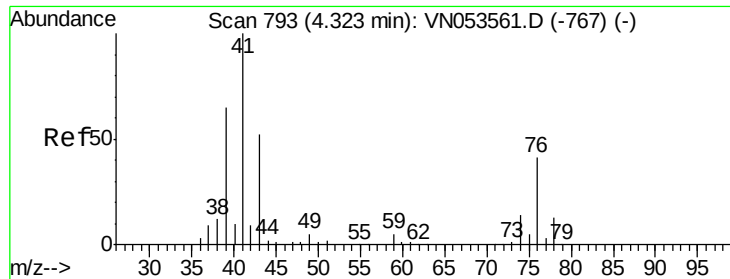
58 19.0 27.1 40.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

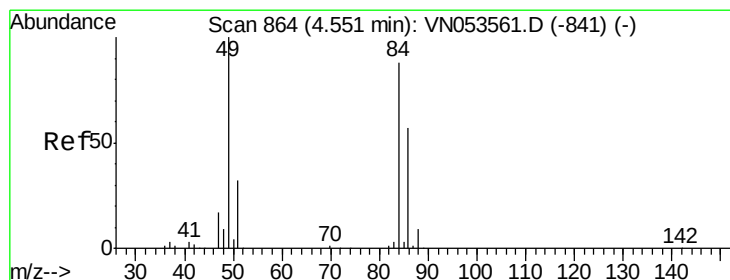
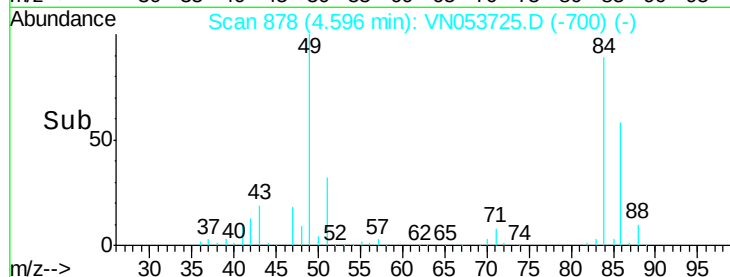
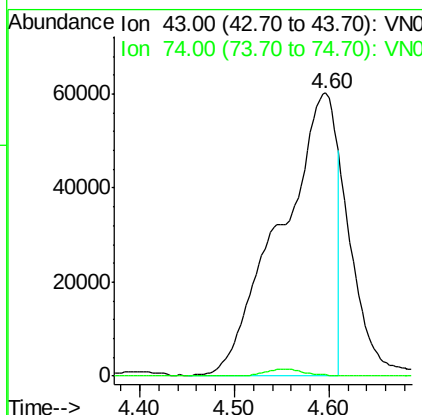
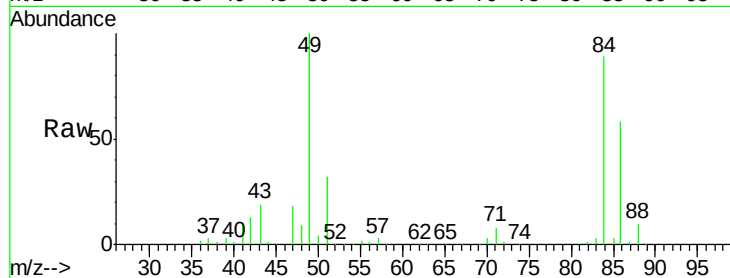




#18  
Methyl Acetate  
Concen: 39.003 ug/l  
RT: 4.60 min Scan# 878  
Delta R.T. 0.27 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

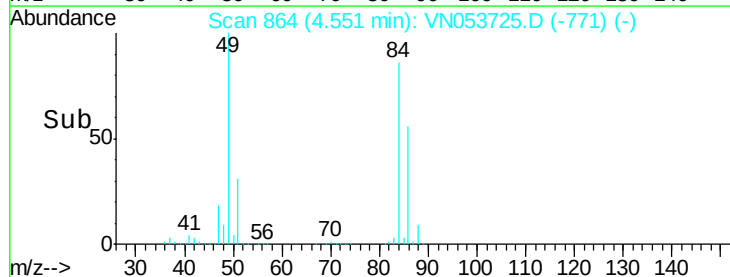
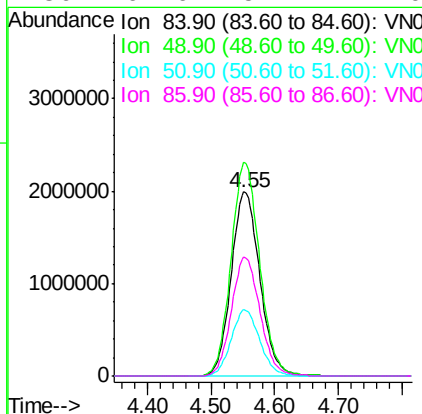
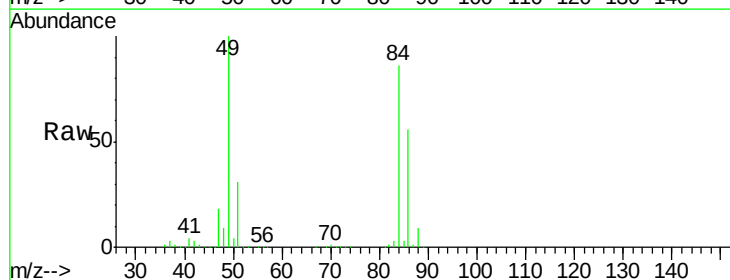
Instrument :  
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ClientSampleID :  
IDW-SOIL-01

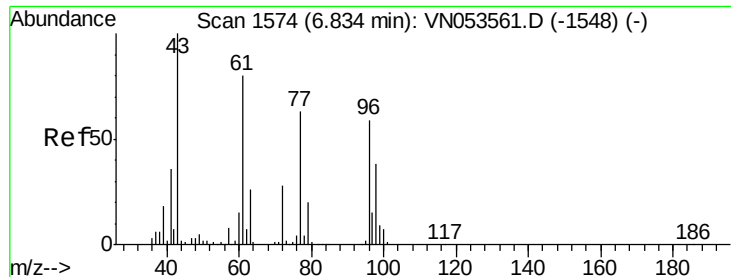
Tot Ion: 43 Resp: 242537  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.4 29.2#



#20  
Methylene Chloride  
Concen: 708.975 ug/l  
RT: 4.55 min Scan# 864  
Delta R.T. 0.00 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

Tgt Ion: 84 Resp: 6245584  
Ion Ratio Lower Upper  
84 100  
49 116.2 94.3 141.5  
51 36.1 29.4 44.2  
86 64.6 51.4 77.0

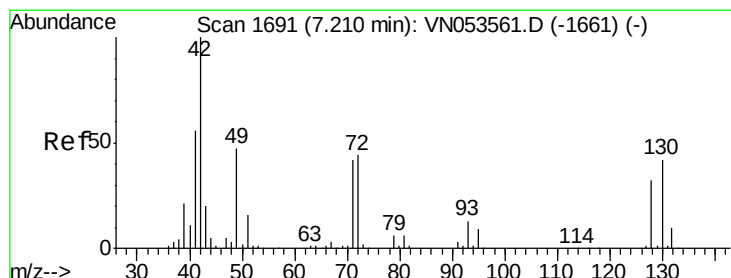
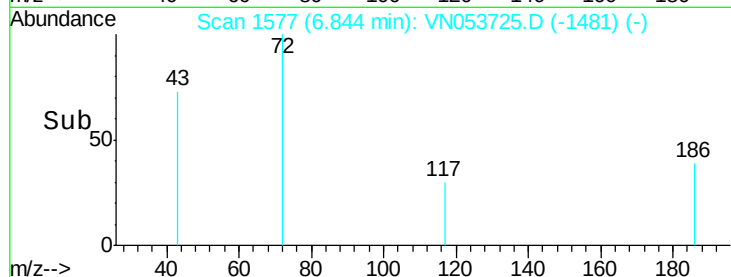
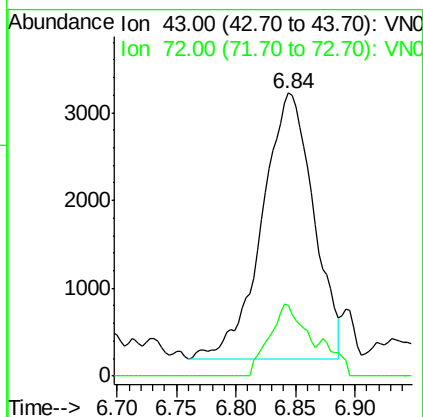
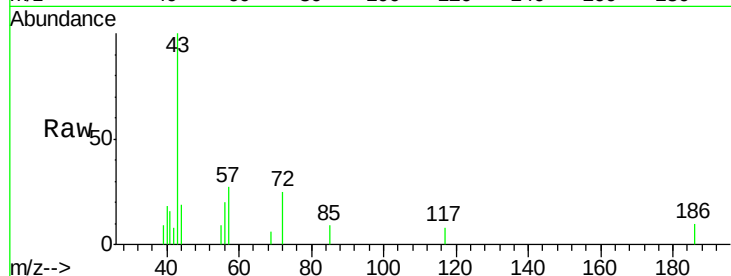




#25  
2-Butanone  
Concen: 3.035 ug/l  
RT: 6.84 min Scan# 1577  
Delta R.T. 0.01 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

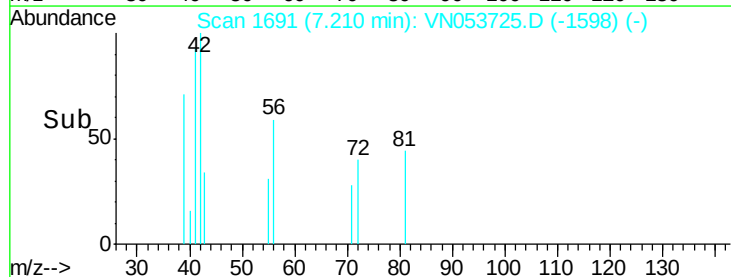
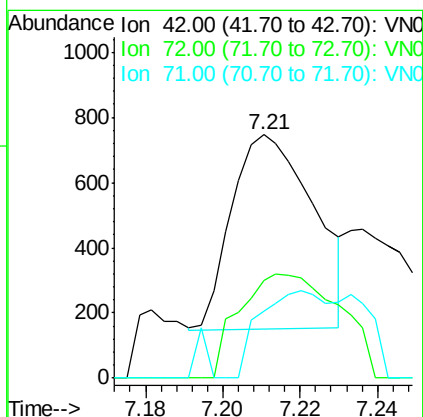
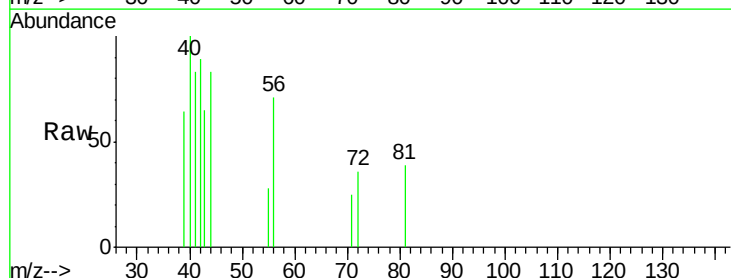
Instrument :  
MSVOA\_N  
ClientSampled :  
IDW-SOIL-01

Tot Ion: 43 Resp: 9090  
Ion Ratio Lower Upper  
43 100  
72 26.5 22.0 33.0

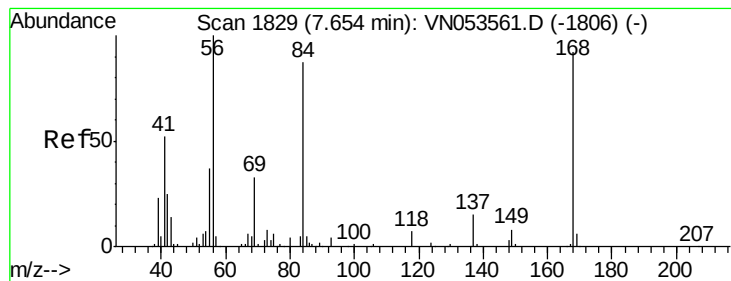


#29  
Tetrahydrofuran  
Concen: 0.458 ug/l  
RT: 7.21 min Scan# 1691  
Delta R.T. 0.00 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

Tgt Ion: 42 Resp: 880  
Ion Ratio Lower Upper  
42 100  
72 64.9 35.2 52.8#  
71 35.7 33.0 49.4







#31

Cyclohexane

Concen: 6.668 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

IDW-SOIL-01

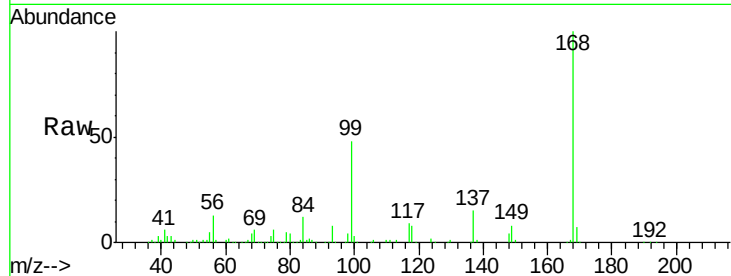
Tot Ion: 56 Resp: 94351

Ion Ratio Lower Upper

56 100

69 49.4 26.4 39.6#

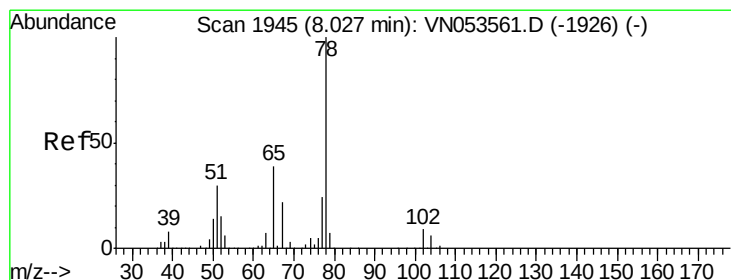
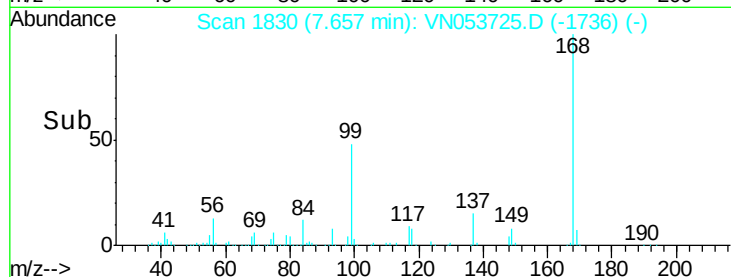
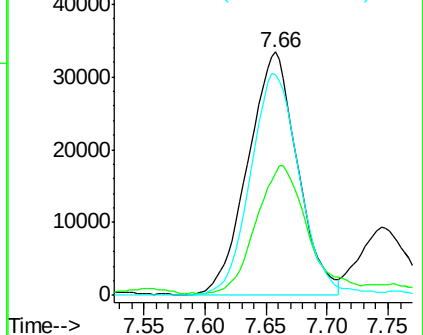
84 90.8 67.9 101.9



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: 51.401 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053725.D

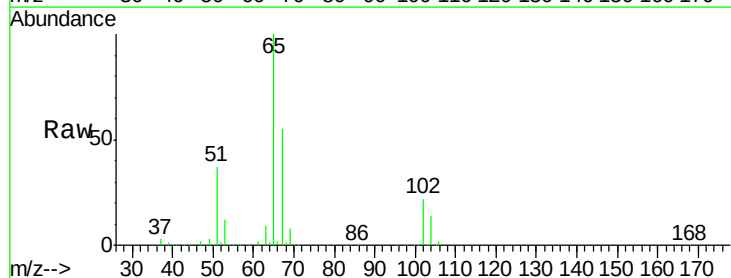
Acq: 12 Feb 2019 12:52

Tgt Ion: 65 Resp: 420773

Ion Ratio Lower Upper

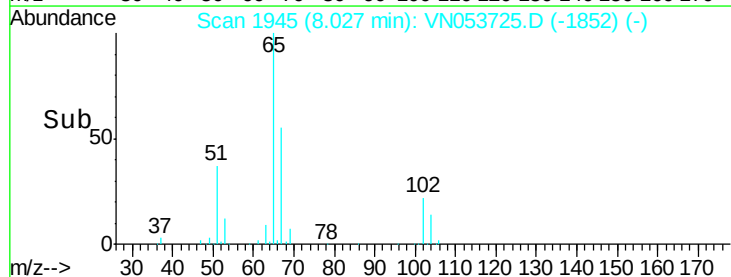
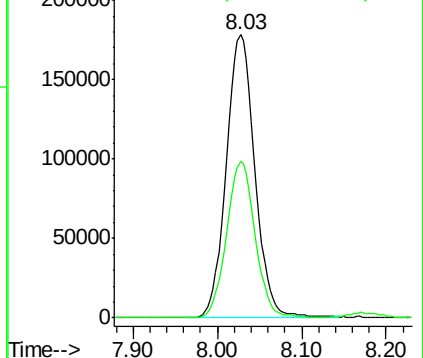
65 100

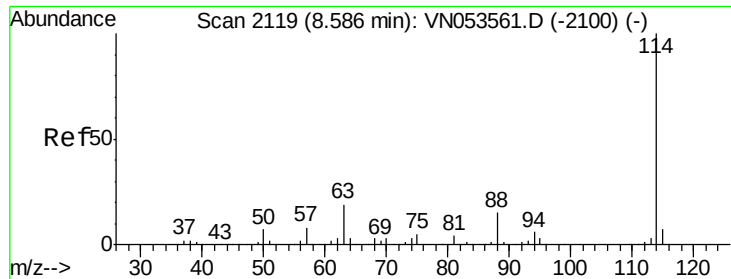
67 55.1 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampleId :

IDW-SOIL-01

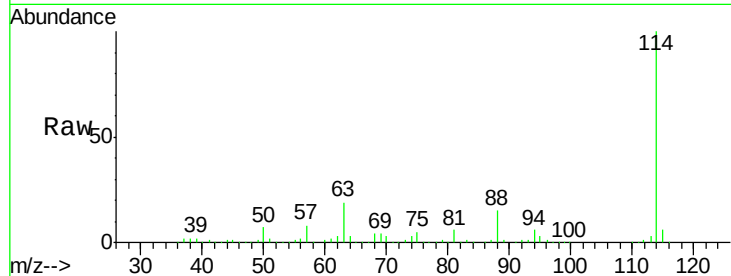
Tot Ion:114 Resp: 1301627

Ion Ratio Lower Upper

114 100

63 18.9 0.0 38.6

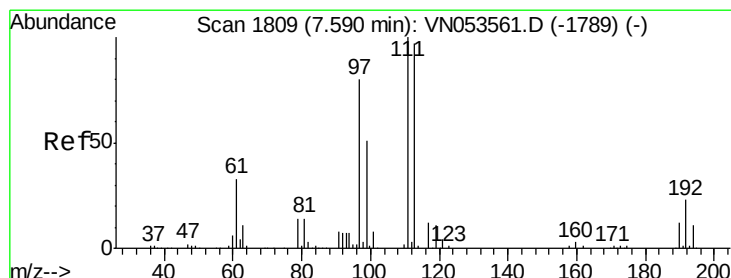
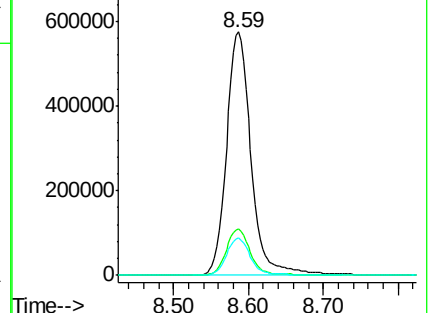
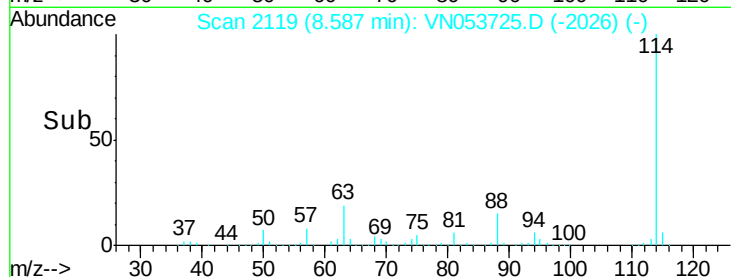
88 15.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.003 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

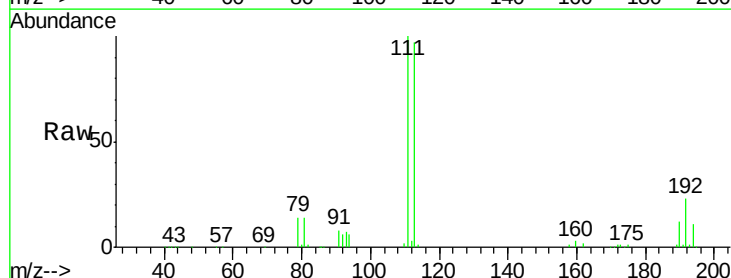
Tgt Ion:113 Resp: 411257

Ion Ratio Lower Upper

113 100

111 103.6 81.1 121.7

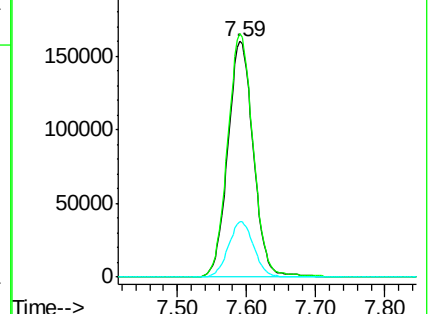
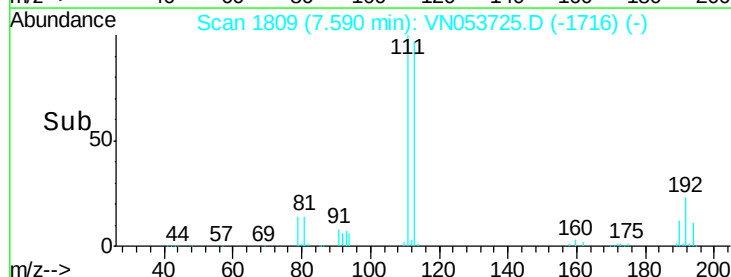
192 23.3 18.2 27.2

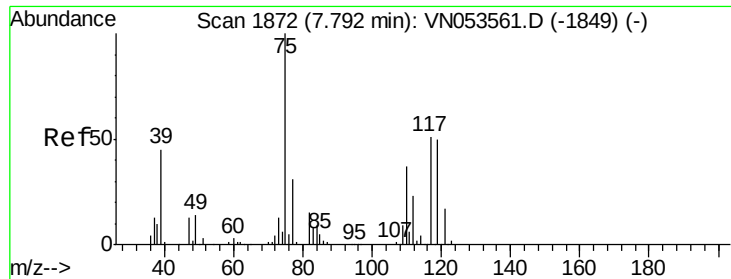


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

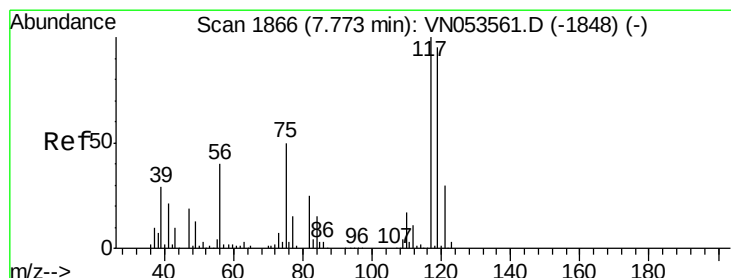
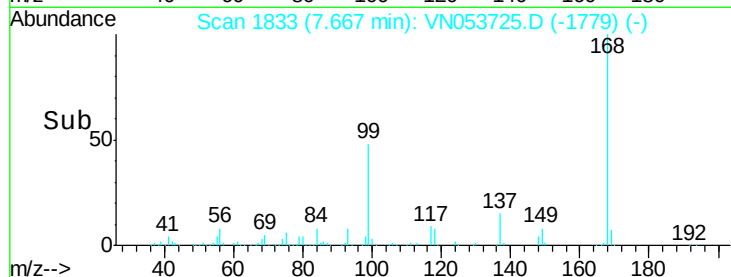
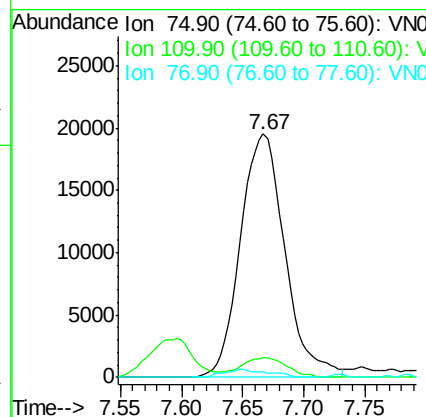
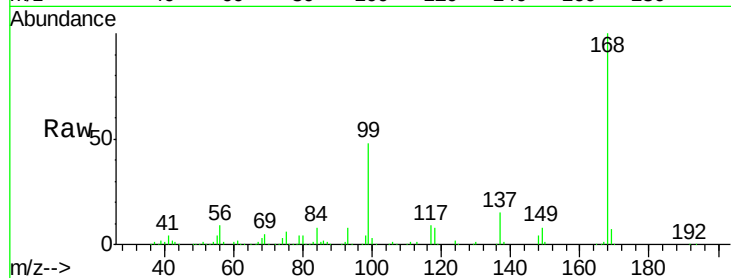




#36  
 1,1-Dichloropropene  
 Concen: 4.200 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.13 min  
 Lab File: VN053725.D  
 Acq: 12 Feb 2019 12:52

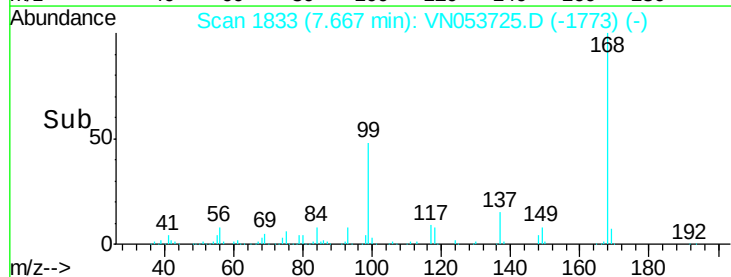
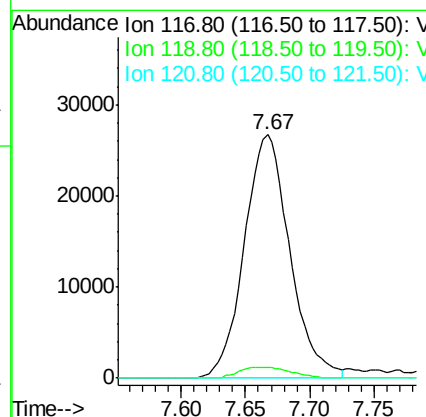
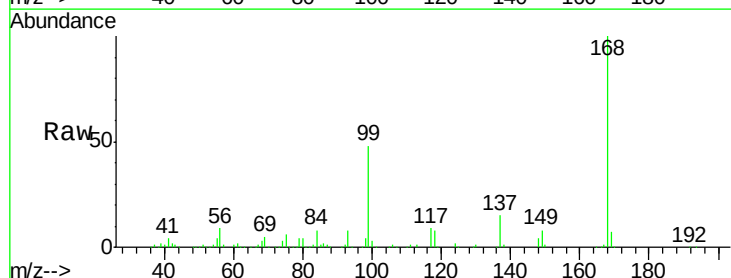
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 IDW-SOIL-01

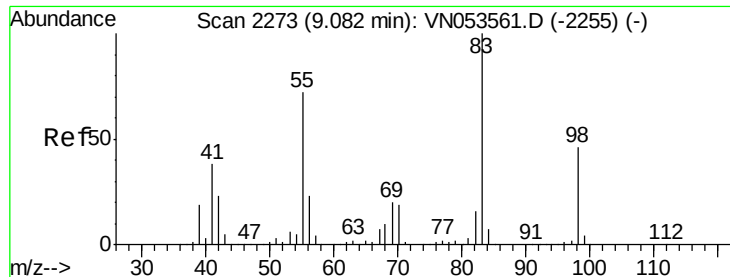
Tot Ion: 75 Resp: 49276  
 Ion Ratio Lower Upper  
 75 100  
 110 8.2 18.1 54.3#  
 77 2.8 25.1 37.7#



#38  
 Carbon Tetrachloride  
 Concen: 5.553 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.11 min  
 Lab File: VN053725.D  
 Acq: 12 Feb 2019 12:52

Tgt Ion: 117 Resp: 65638  
 Ion Ratio Lower Upper  
 117 100  
 119 4.4 77.2 115.8#  
 121 0.0 24.6 37.0#

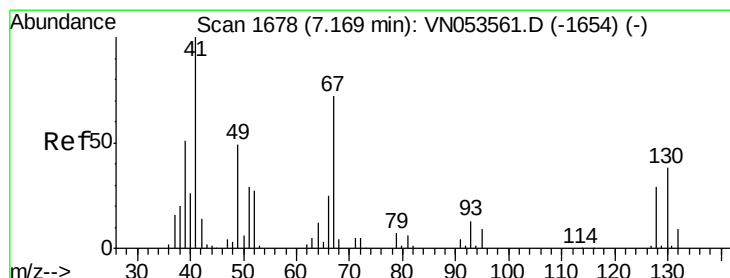
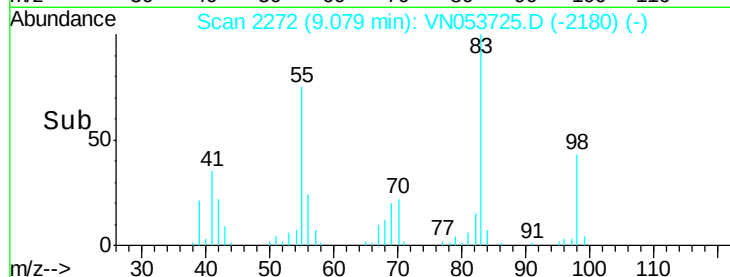
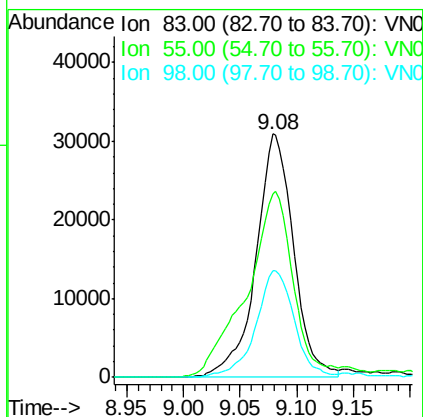
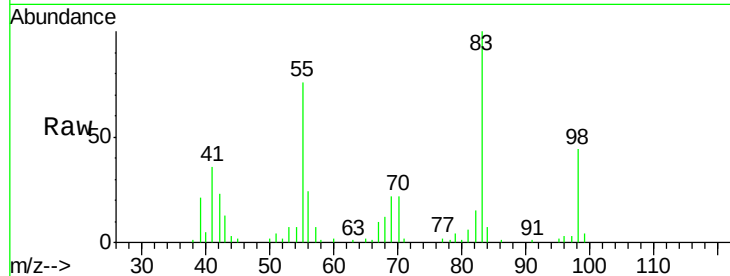




#39  
Methylvlcyclohexane  
Concen: 5.124 ug/l  
RT: 9.08 min Scan# 2272  
Delta R.T. -0.00 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

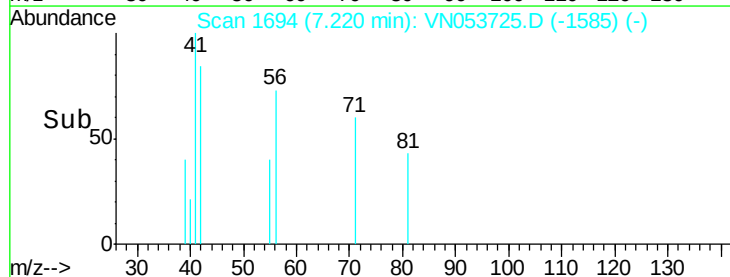
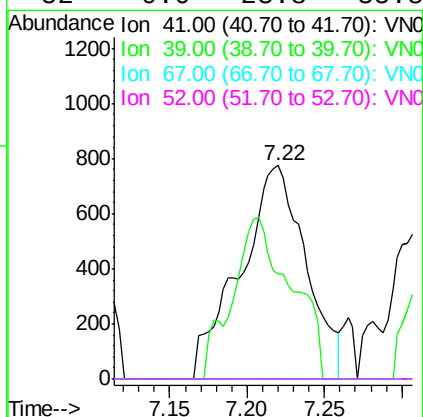
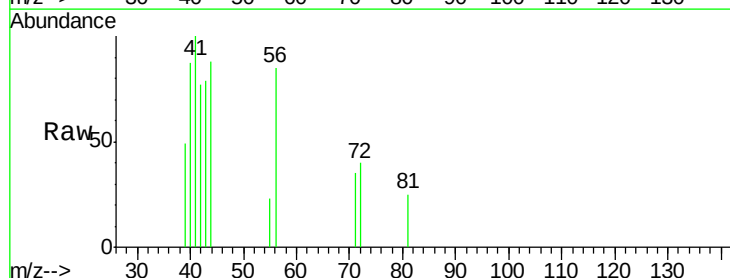
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SOIL-01

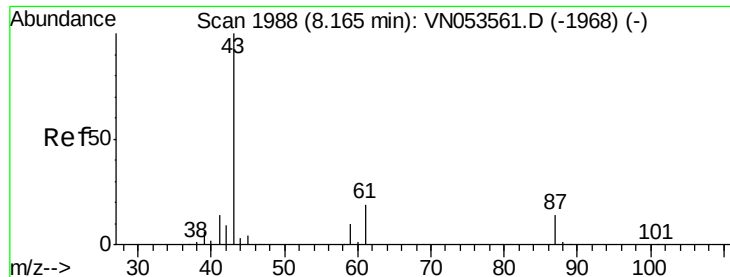
Tot Ion: 83 Resp: 71332  
Ion Ratio Lower Upper  
83 100  
55 74.7 60.1 90.1  
98 43.6 36.6 55.0



#41  
Methacrylonitrile  
Concen: 0.629 ug/l  
RT: 7.22 min Scan# 1694  
Delta R.T. 0.05 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

Tgt Ion: 41 Resp: 2302  
Ion Ratio Lower Upper  
41 100  
39 67.4 46.8 70.2  
67 0.0 63.0 94.6#  
52 0.0 23.8 35.8#





#43

Isopropyl Acetate

Concen: 3.168 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

IDW-SOIL-01

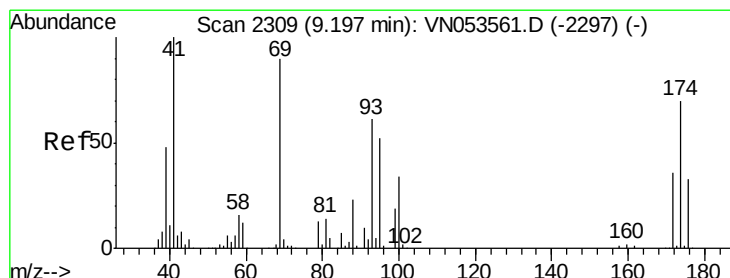
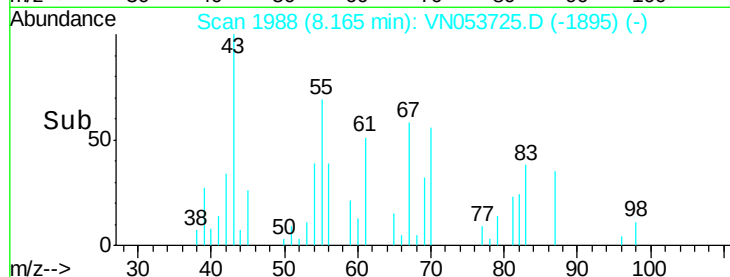
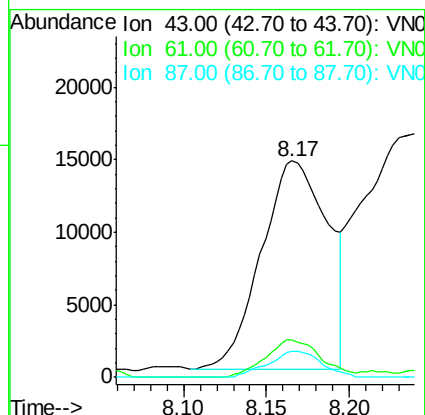
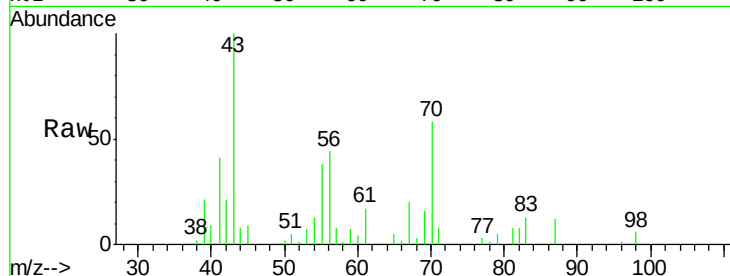
Tot Ion: 43 Resp: 40090

Ion Ratio Lower Upper

43 100

61 15.1 23.9 35.9#

87 10.0 11.0 16.6#



#48

Methyl methacrylate

Concen: 1.513 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

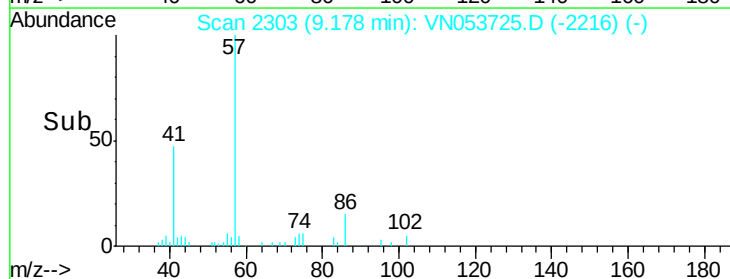
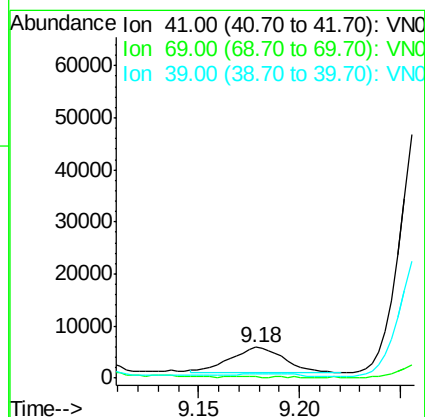
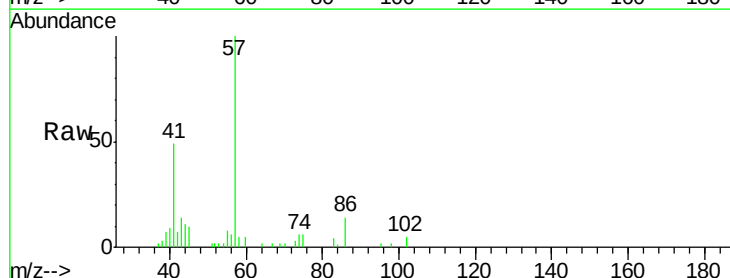
Tgt Ion: 41 Resp: 9140

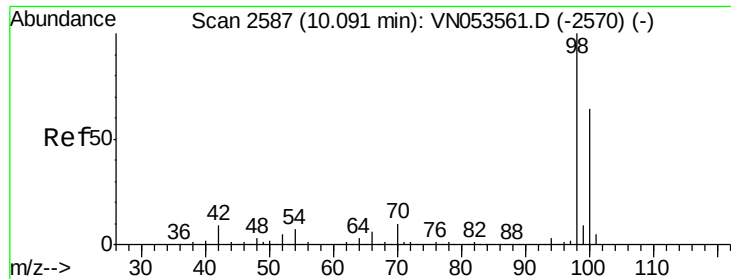
Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

39 0.0 40.0 60.0#





#50

Toluene-d8

Concen: 51.968 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

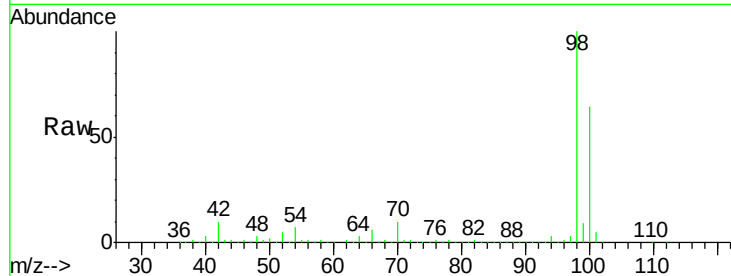
IDW-SOIL-01

Tot Ion: 98 Resp: 1604854

Ion Ratio Lower Upper

98 100

100 64.0 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053725.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN053725.D (-2494) (-)

10.09

800000

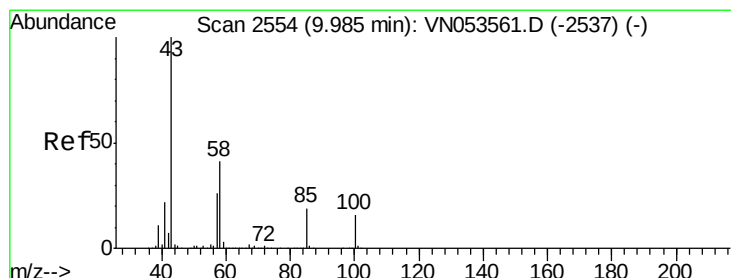
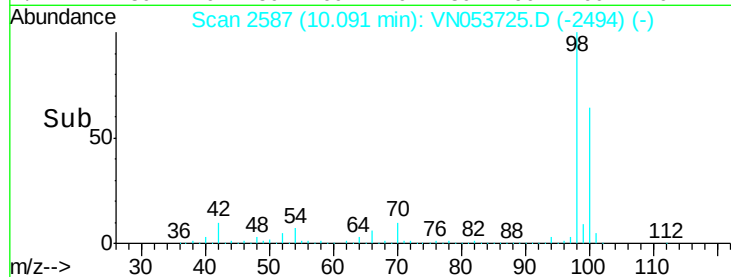
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.521 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053725.D

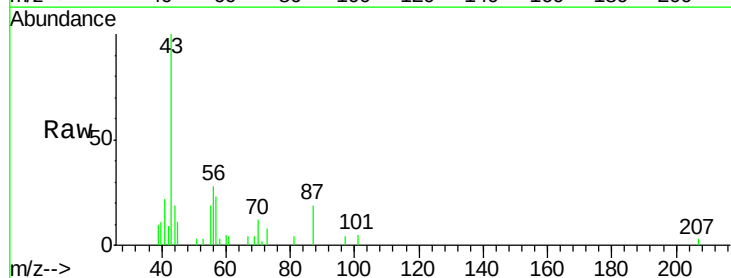
Acq: 12 Feb 2019 12:52

Tgt Ion: 43 Resp: 9458

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053725.D (-2461) (-)

Ion 58.00 (57.70 to 58.70): VN053725.D (-2461) (-)

10.02

8000

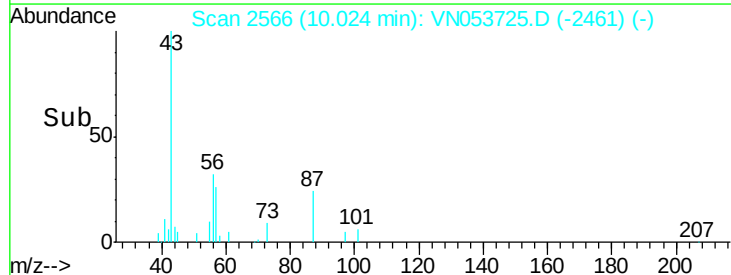
6000

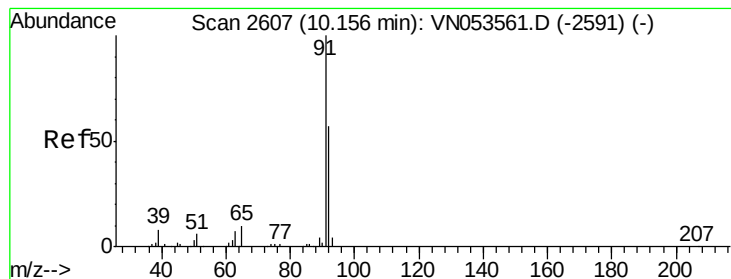
4000

2000

0

Time-->





#52

Toluene

Concen: 10.466 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

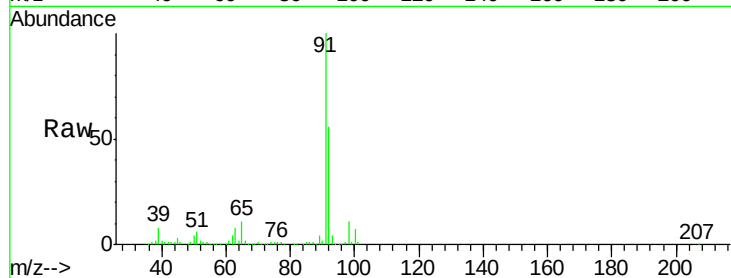
IDW-SOIL-01

Tot Ion: 92 Resp: 224759

Ion Ratio Lower Upper

92 100

91 175.8 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

200000

150000

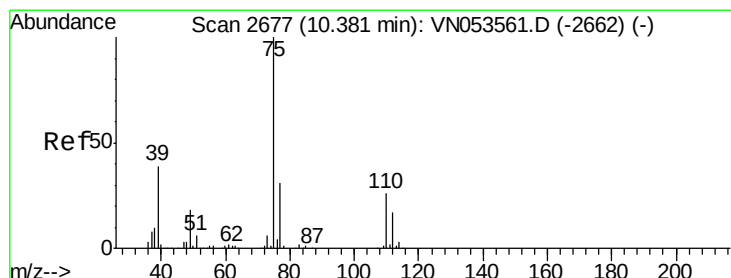
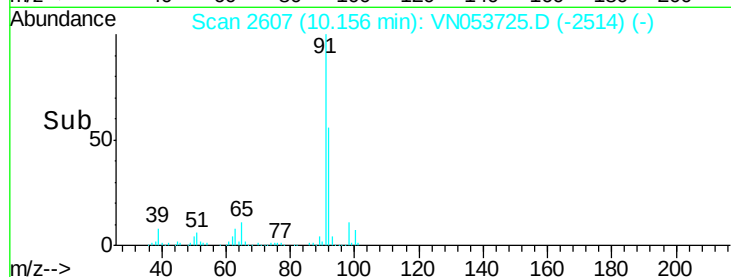
100000

50000

0

10.10 10.20 10.30

Time-->



#53

t-1,3-Dichloropropene

Concen: 0.204 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.23 min

Lab File: VN053725.D

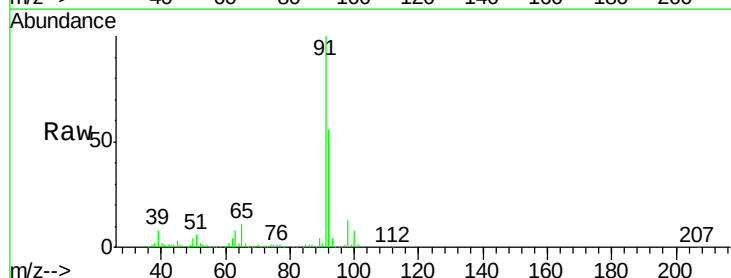
Acq: 12 Feb 2019 12:52

Tgt Ion: 75 Resp: 2367

Ion Ratio Lower Upper

75 100

77 149.3 25.5 38.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

2000

1500

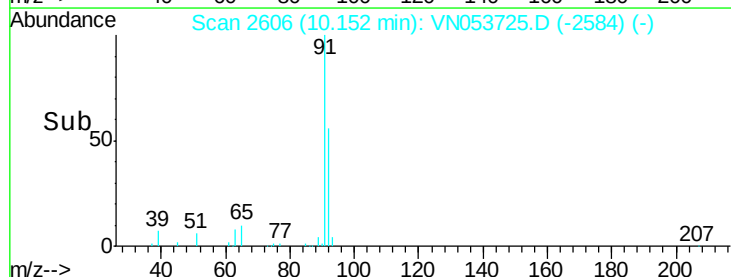
1000

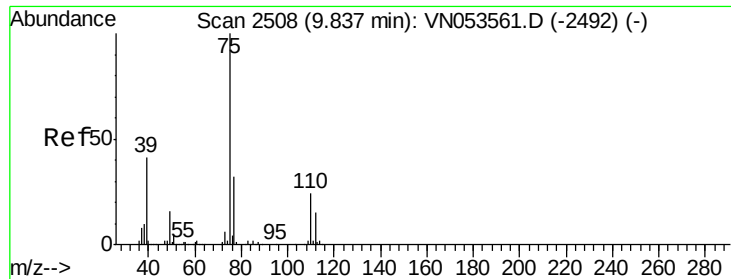
500

0

10.10 10.15 10.20

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.614 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampleId :

IDW-SOIL-01

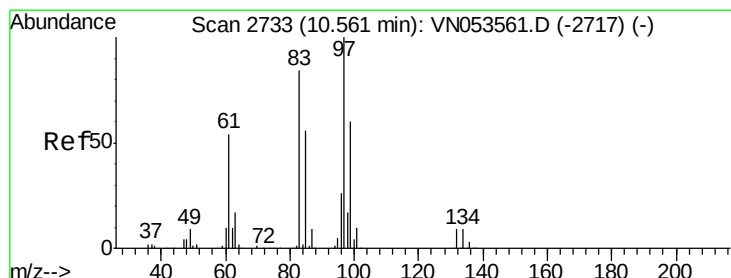
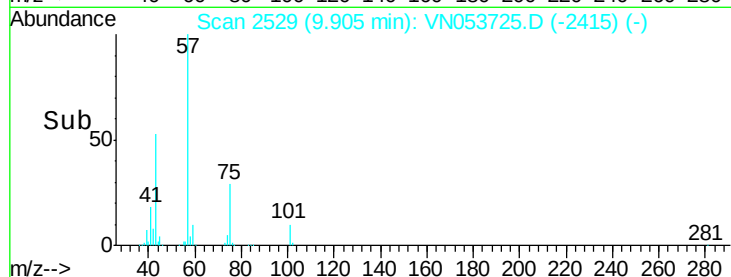
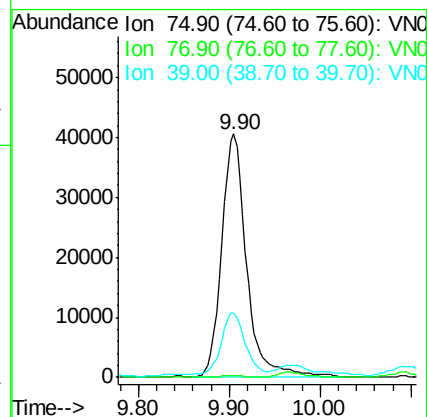
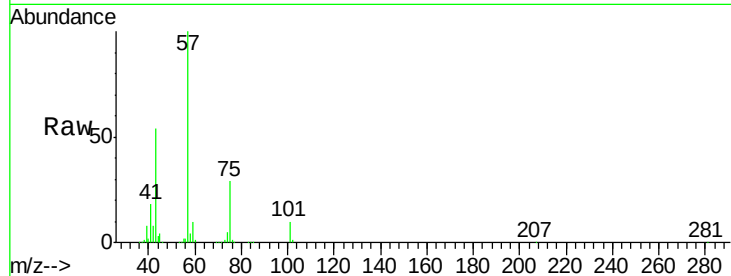
Tot Ion: 75 Resp: 77268

Ion Ratio Lower Upper

75 100

77 0.8 25.8 38.6#

39 24.9 33.4 50.0#



#55

1,1,2-Trichloroethane

Concen: 0.991 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. -0.03 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Tgt Ion: 97 Resp: 7670

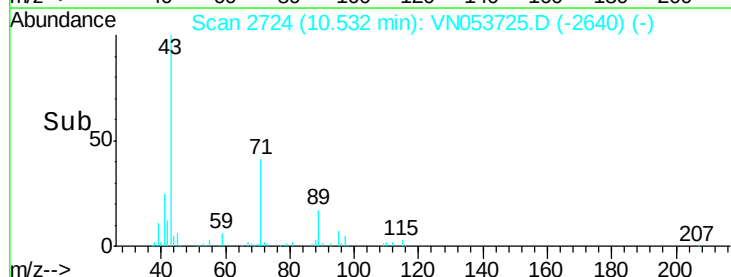
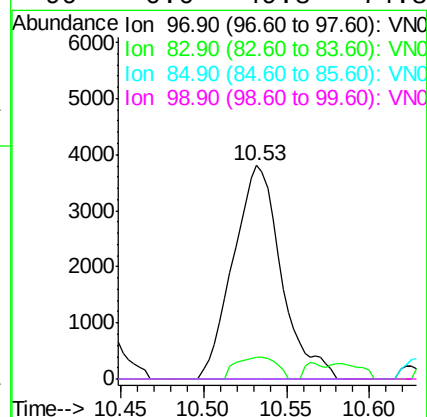
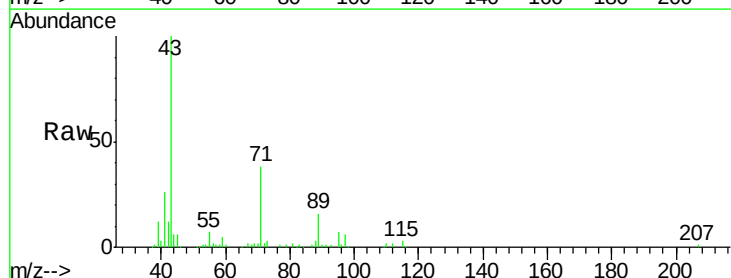
Ion Ratio Lower Upper

97 100

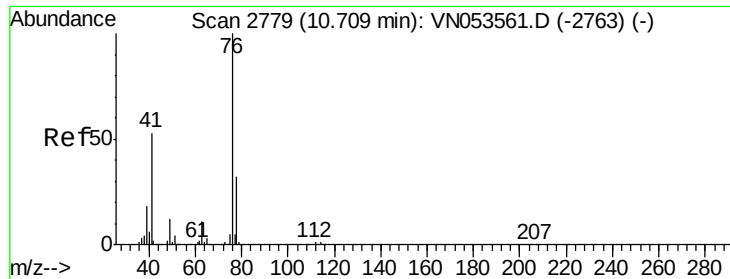
83 10.1 70.1 105.1#

85 0.0 45.4 68.0#

99 0.0 49.8 74.8#







#57

1,3-Dichloropropane

Concen: 1.221 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

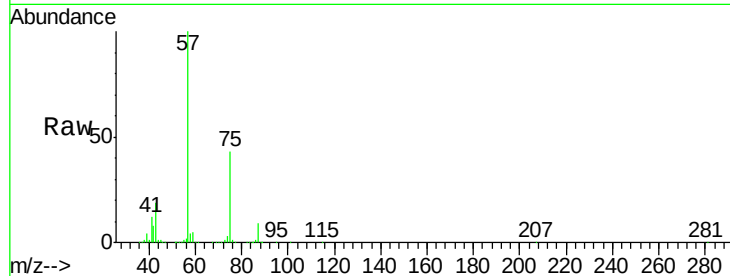
IDW-SOIL-01

Tot Ion: 76 Resp: 16144

Ion Ratio Lower Upper

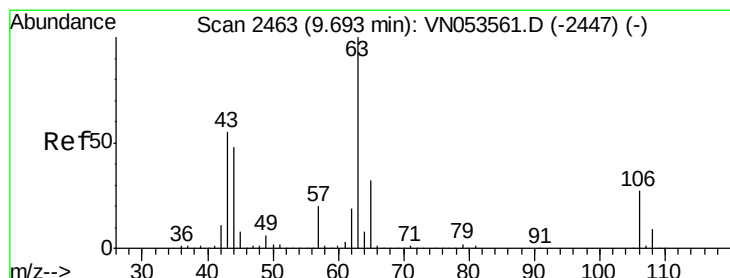
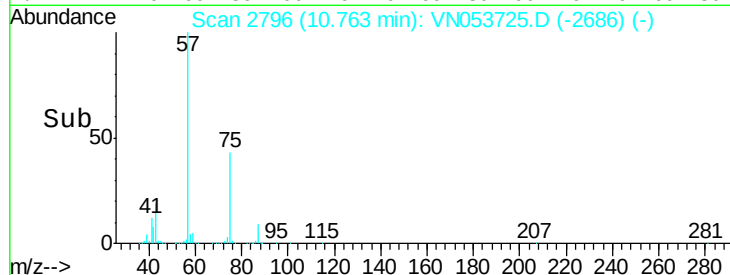
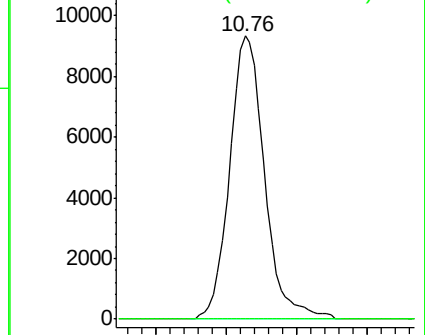
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 8.024 ug/l

RT: 9.67 min Scan# 2457

Delta R.T. -0.02 min

Lab File: VN053725.D

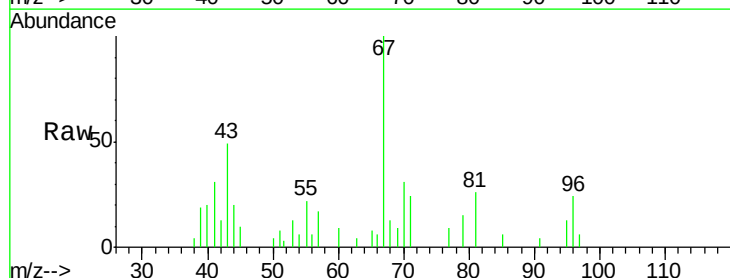
Acq: 12 Feb 2019 12:52

Tgt Ion: 63 Resp: 91

Ion Ratio Lower Upper

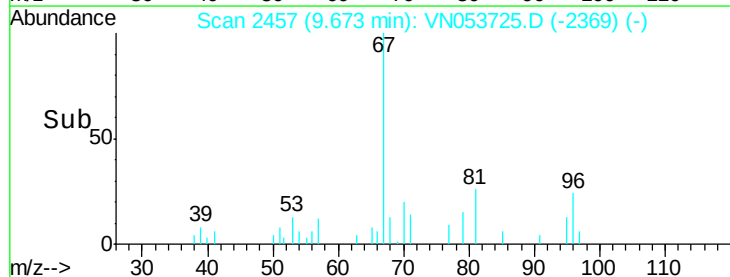
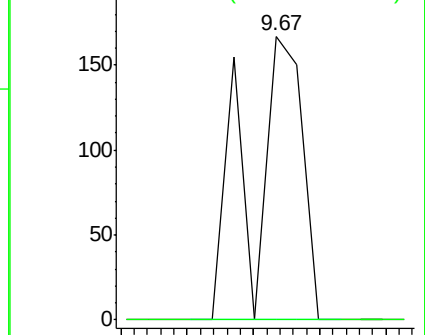
63 100

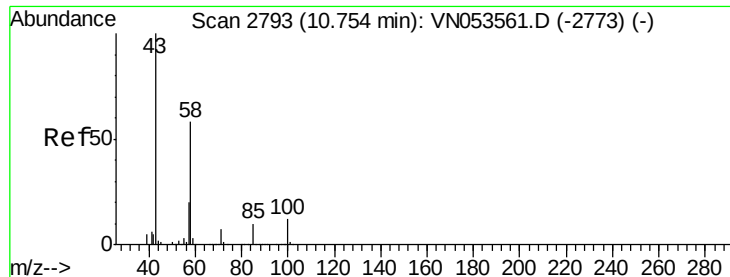
106 0.0 21.5 32.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

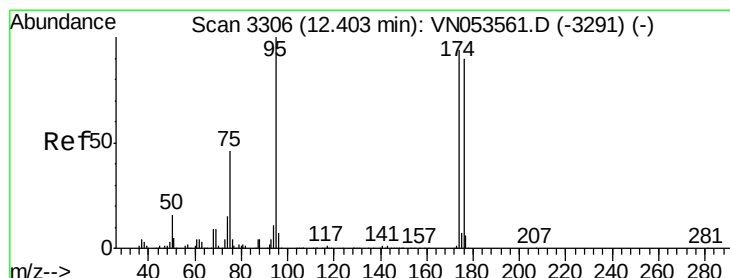
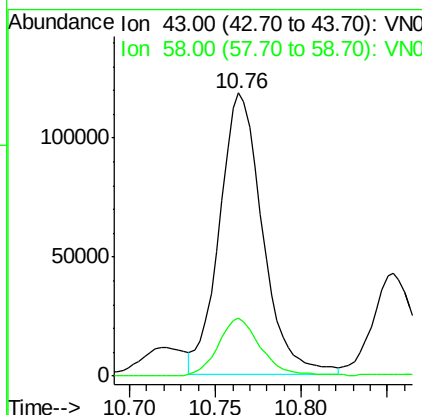
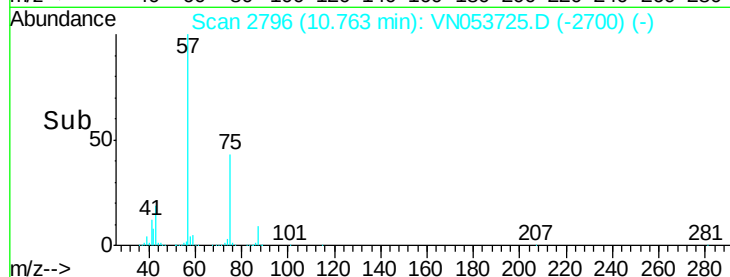
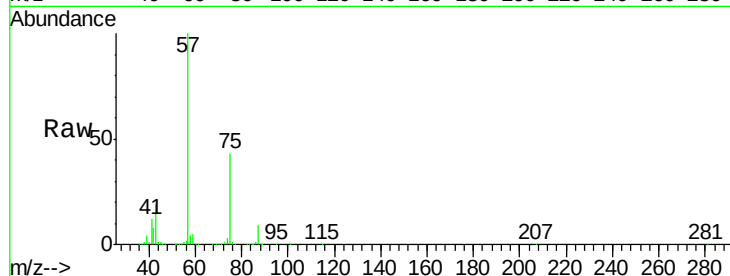




#59  
2-Hexanone  
Concen: 48.948 ug/l  
RT: 10.76 min Scan# 2796  
Delta R.T. 0.01 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

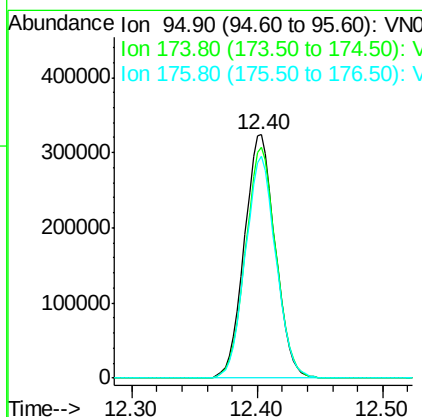
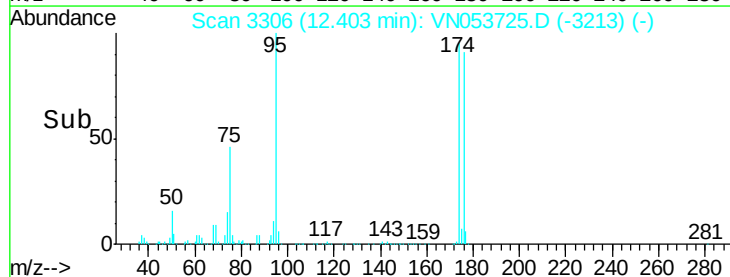
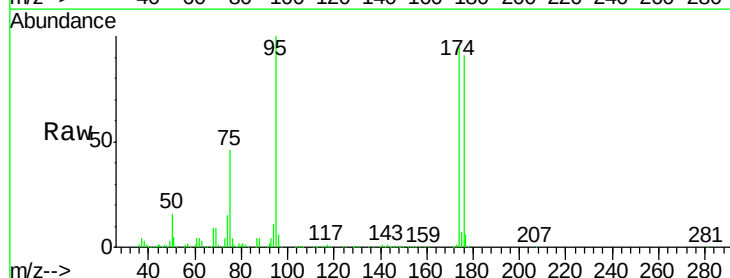
Instrument :  
MSVOA\_N  
ClientSampled :  
IDW-SOIL-01

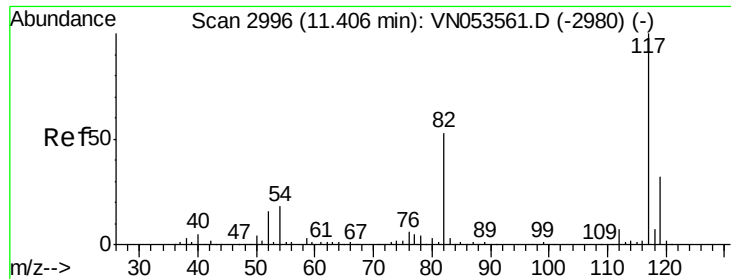
Tot Ion: 43 Resp: 206653  
Ion Ratio Lower Upper  
43 100  
58 20.4 28.6 85.8#



#62  
4-Bromofluorobenzene  
Concen: 53.844 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

Tgt Ion: 95 Resp: 554566  
Ion Ratio Lower Upper  
95 100  
174 93.9 0.0 183.2  
176 90.3 0.0 177.4

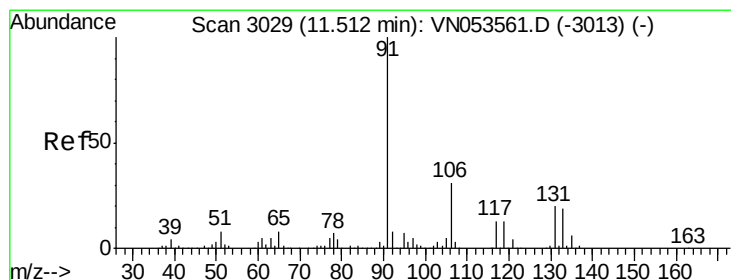
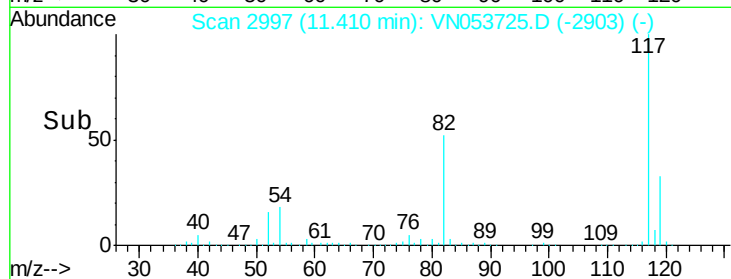
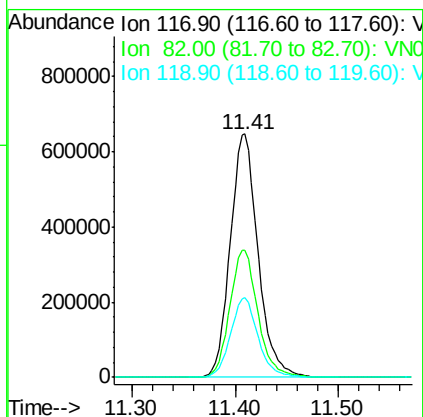
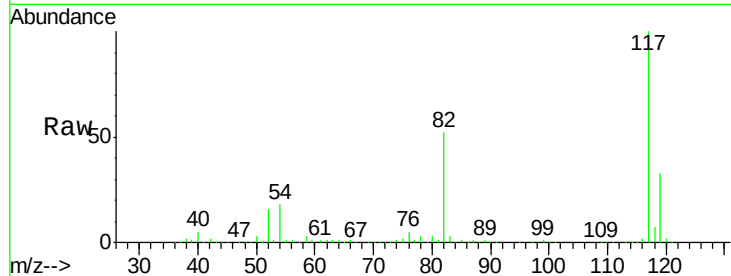




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

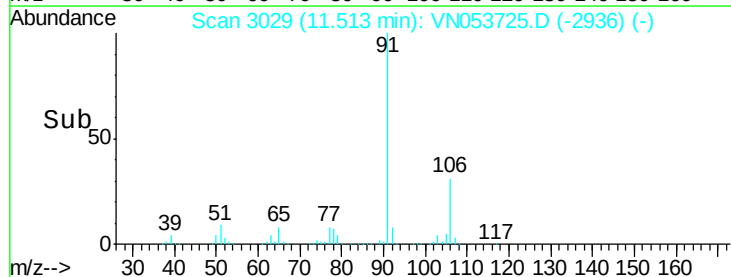
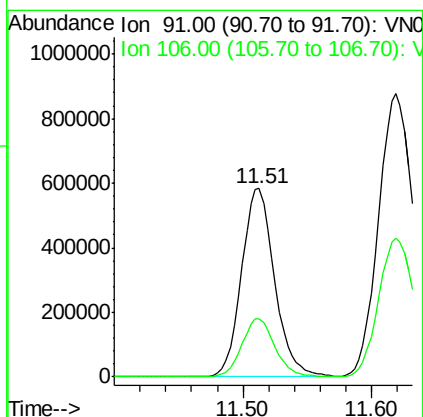
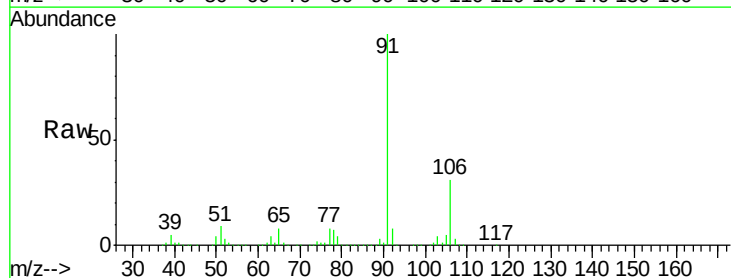
Instrument :  
MSVOA\_N  
ClientSampled :  
IDW-SOIL-01

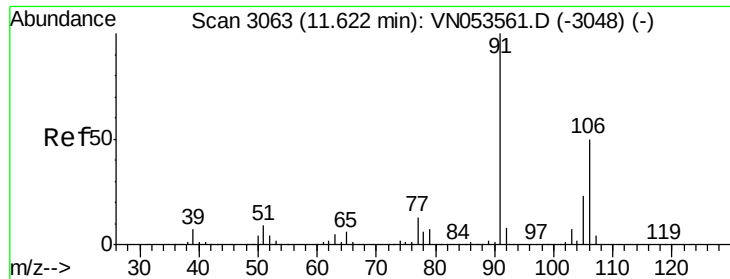
Tot Ion:117 Resp: 1217075  
Ion Ratio Lower Upper  
117 100  
82 52.1 42.9 64.3  
119 32.7 26.0 39.0



#67  
Ethyl Benzene  
Concen: 24.528 ug/l  
RT: 11.51 min Scan# 3029  
Delta R.T. 0.00 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

Tgt Ion: 91 Resp: 1041607  
Ion Ratio Lower Upper  
91 100  
106 31.2 25.0 37.6

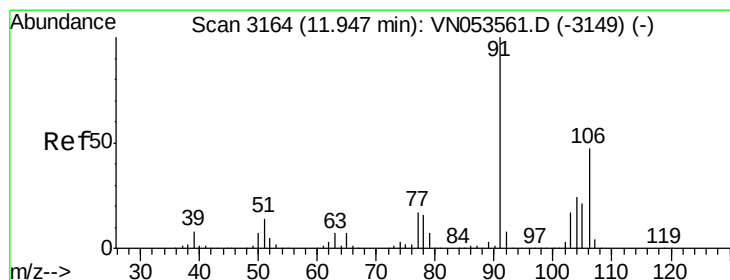
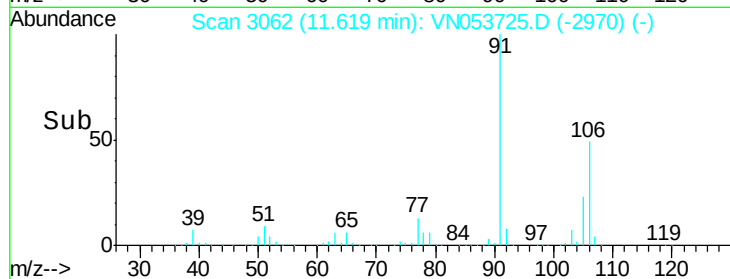
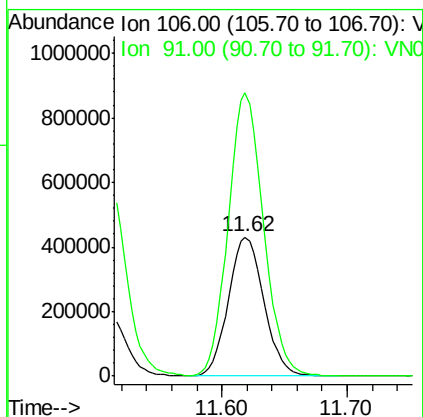
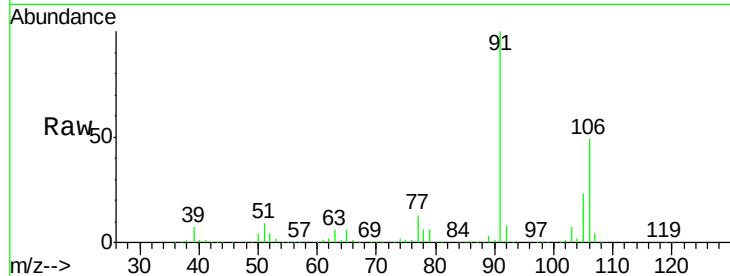




#68  
m/p-Xylenes  
Concen: 52.170 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

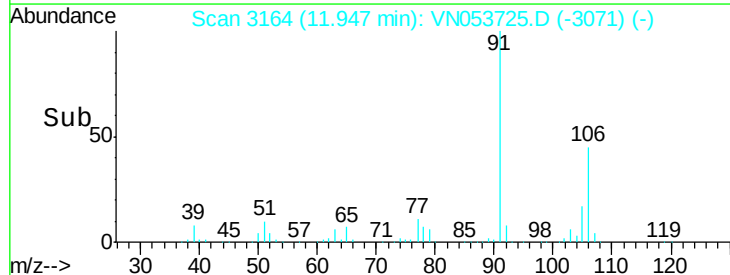
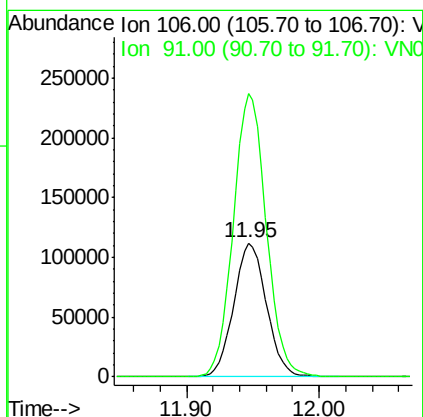
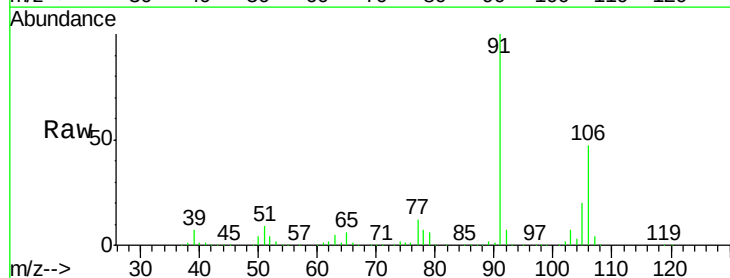
Instrument :  
MSVOA\_N  
ClientSampleId :  
IDW-SOIL-01

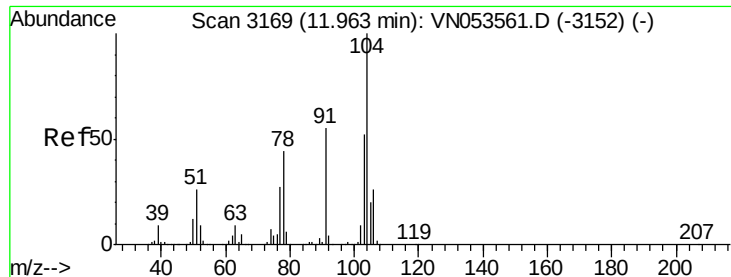
Tot Ion:106 Resp: 845572  
Ion Ratio Lower Upper  
106 100  
91 202.2 161.4 242.2



#69  
o-Xylene  
Concen: 12.265 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN053725.D  
Acq: 12 Feb 2019 12:52

Tgt Ion:106 Resp: 192045  
Ion Ratio Lower Upper  
106 100  
91 213.0 106.9 320.8





#70

Stvrene

Concen: 0.459 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. -0.01 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

IDW-SOIL-01

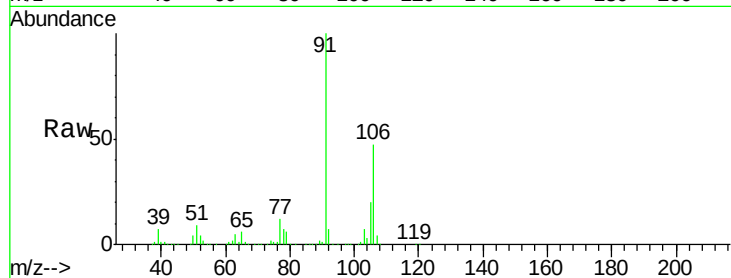
Tot Ion:104 Resp: 11638

Ion Ratio Lower Upper

104 100

78 228.8 38.2 57.2#

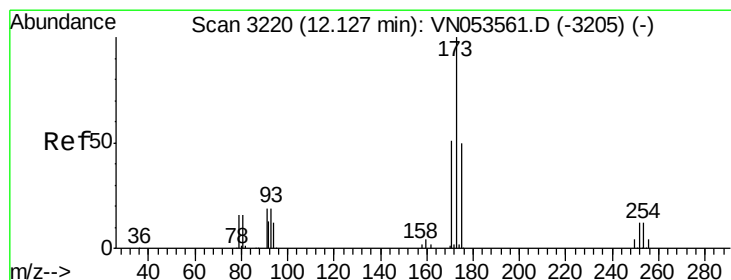
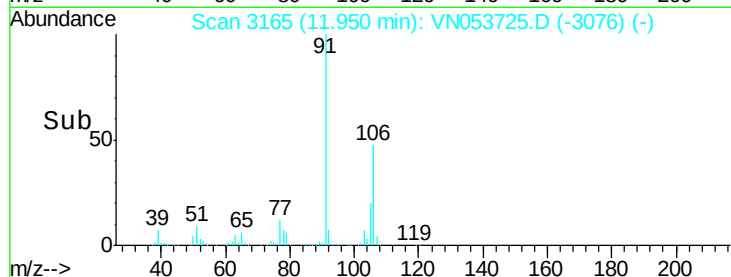
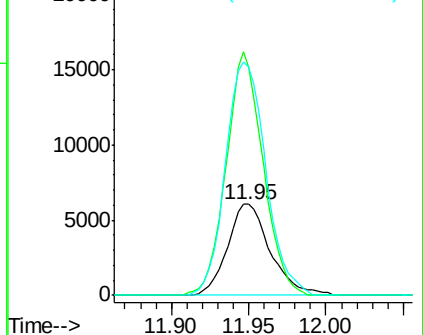
103 240.7 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.594 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

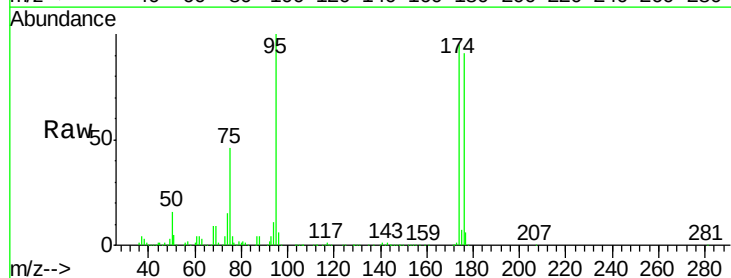
Tgt Ion:173 Resp: 3677

Ion Ratio Lower Upper

173 100

175 855.5 24.6 74.0#

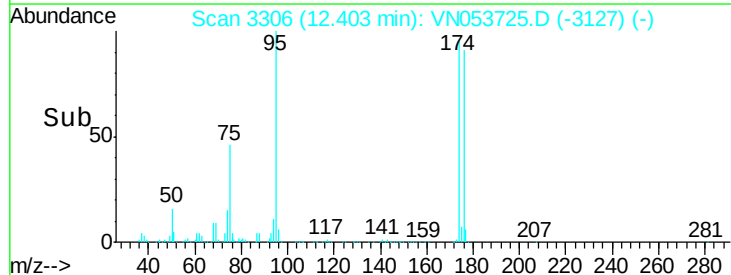
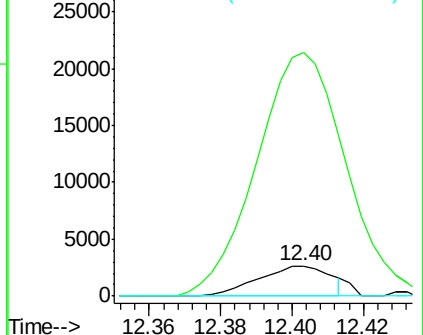
254 0.0 0.2 0.2#

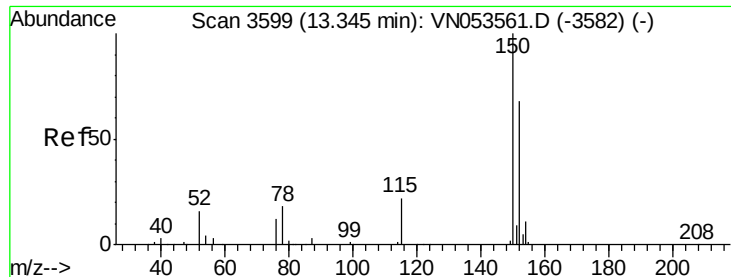


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

IDW-SOIL-01

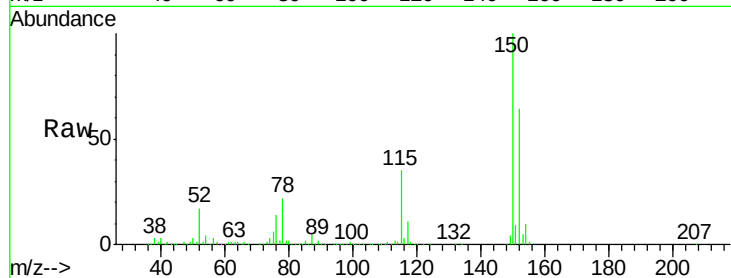
Tot Ion:152 Resp: 551140

Ion Ratio Lower Upper

152 100

115 57.3 27.8 83.4

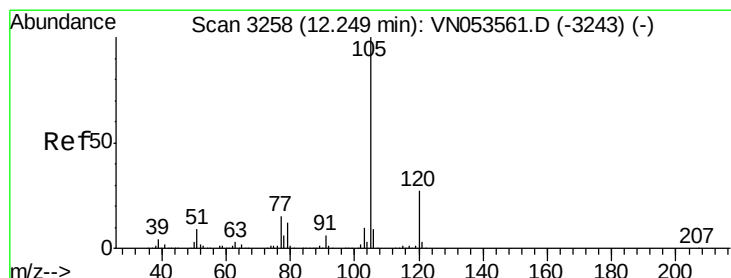
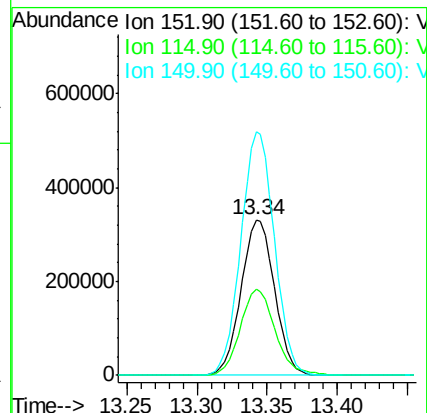
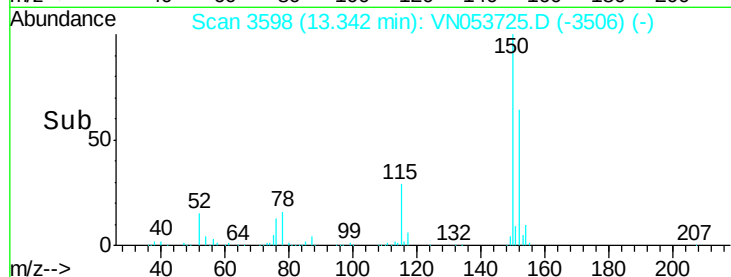
150 156.9 0.0 349.0



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



#73

Isopropylbenzene

Concen: 2.832 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053725.D

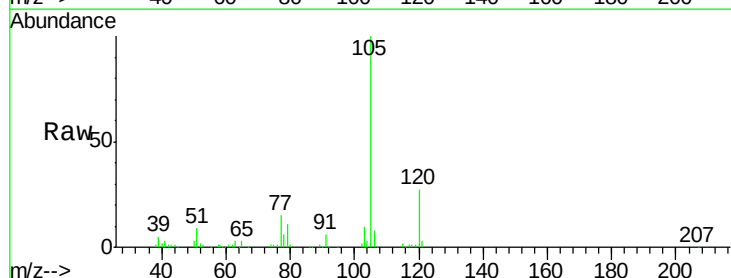
Acq: 12 Feb 2019 12:52

Tgt Ion:105 Resp: 109723

Ion Ratio Lower Upper

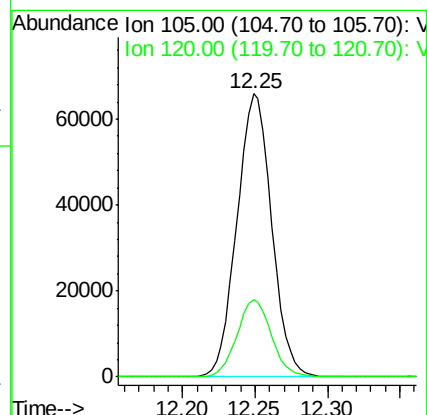
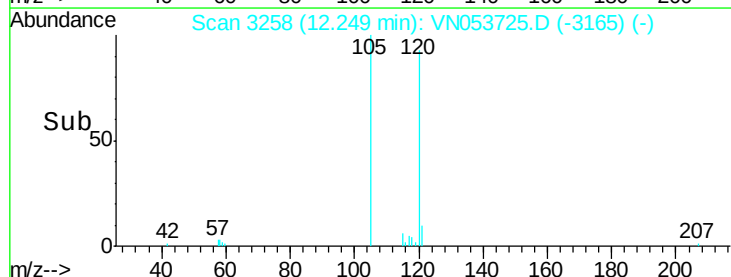
105 100

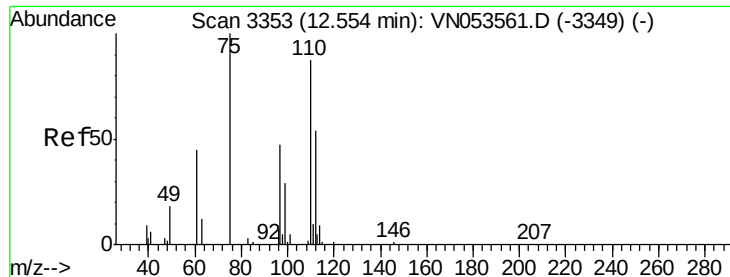
120 27.0 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 35.896 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

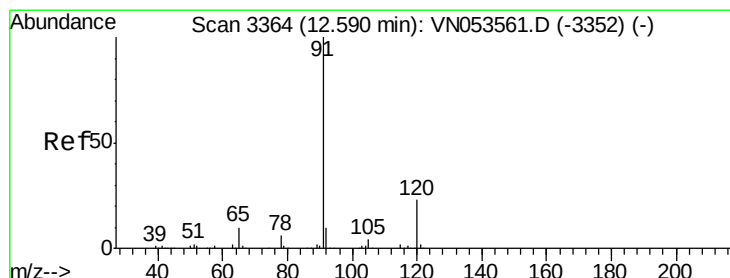
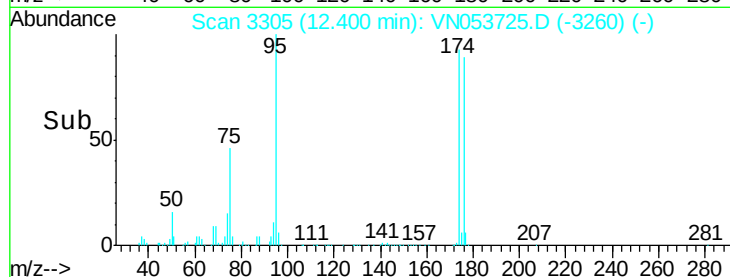
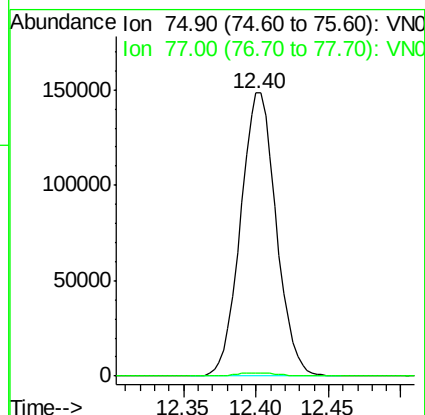
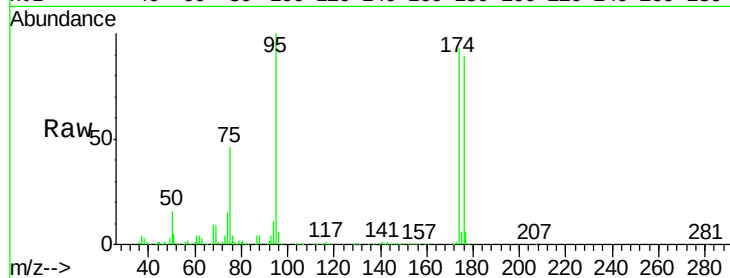
IDW-SOIL-01

Tot Ion: 75 Resp: 254112

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#78

n-propylbenzene

Concen: 6.571 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN053725.D

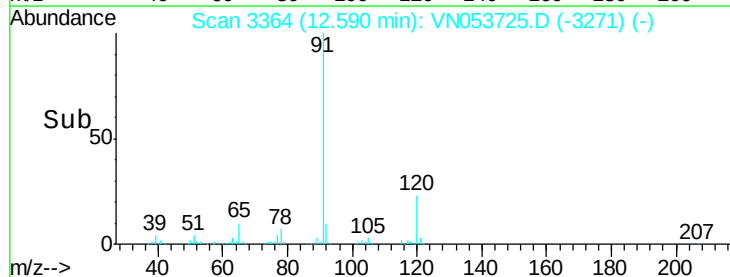
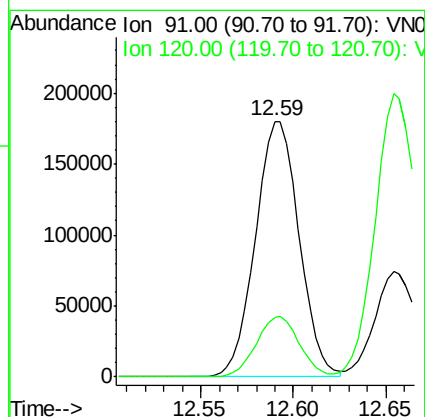
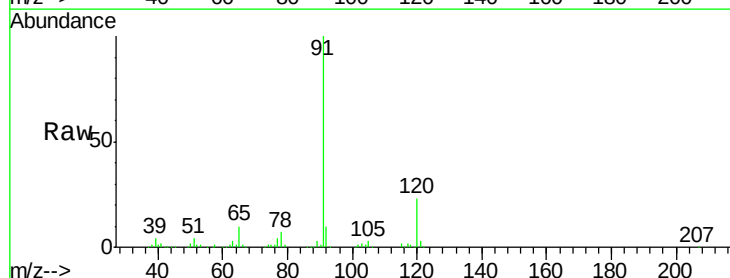
Acq: 12 Feb 2019 12:52

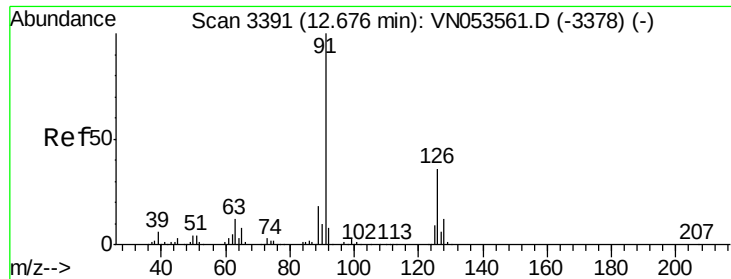
Tgt Ion: 91 Resp: 294319

Ion Ratio Lower Upper

91 100

120 23.2 11.9 35.5





#79

2-Chlorotoluene

Concen: 4.139 ug/l

RT: 12.65 min Scan# 3384

Delta R.T. -0.02 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

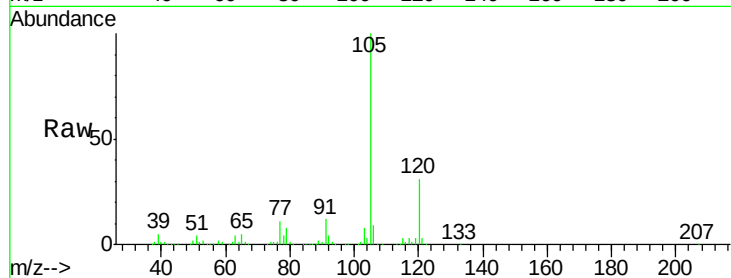
IDW-SOIL-01

Tot Ion: 91 Resp: 109977

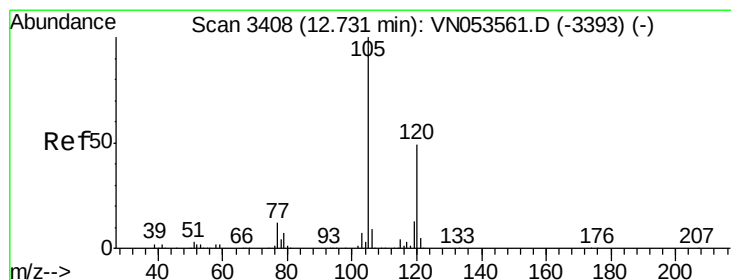
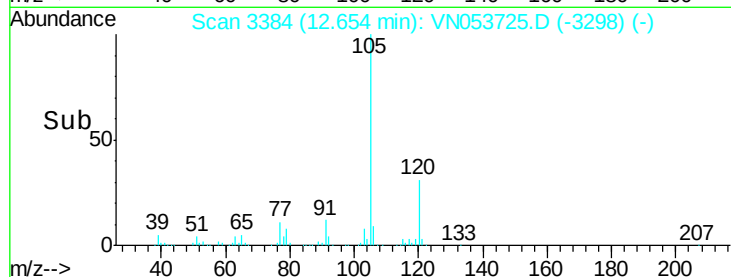
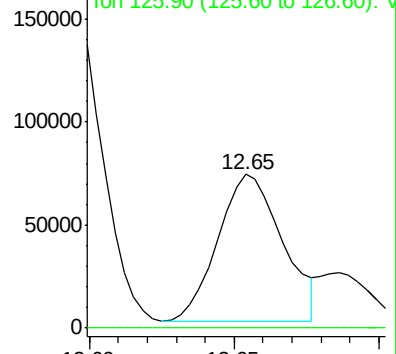
Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN053725.D (-3391) (-)



#80

1,3,5-Trimethylbenzene

Concen: 14.070 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053725.D

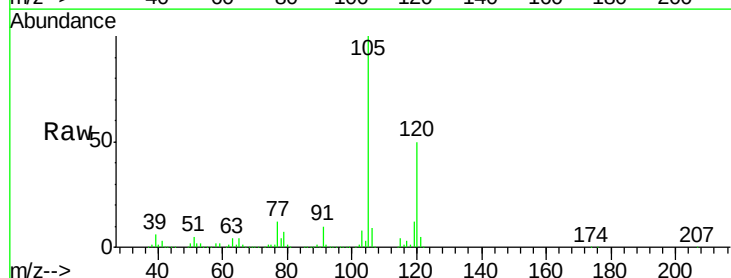
Acq: 12 Feb 2019 12:52

Tgt Ion: 105 Resp: 452057

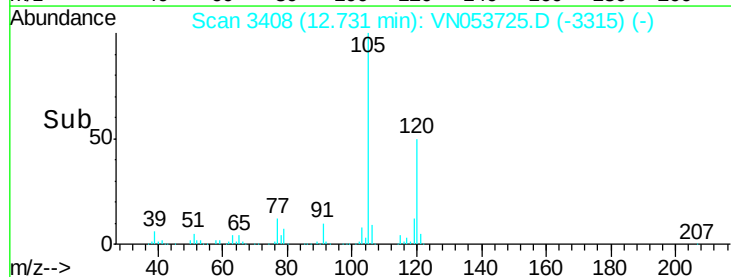
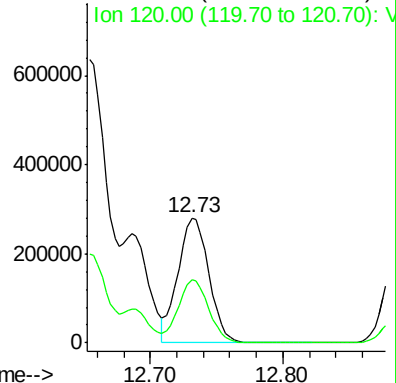
Ion Ratio Lower Upper

105 100

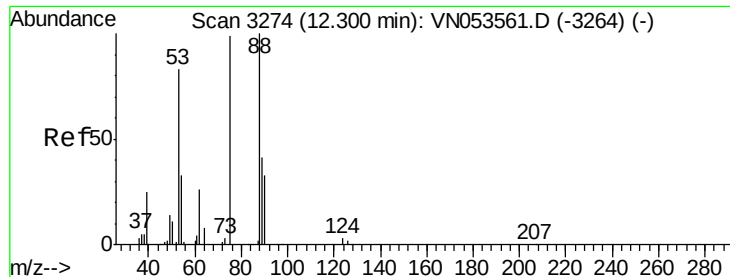
120 49.6 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053725.D (-3408) (-)







#81

trans-1,4-Dichloro-2-butene

Concen: 100.938 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

IDW-SOIL-01

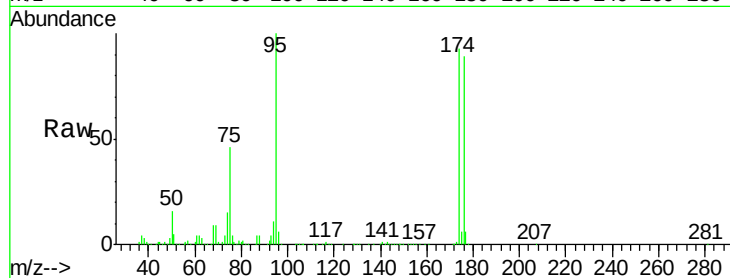
Tot Ion: 75 Resp: 254112

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

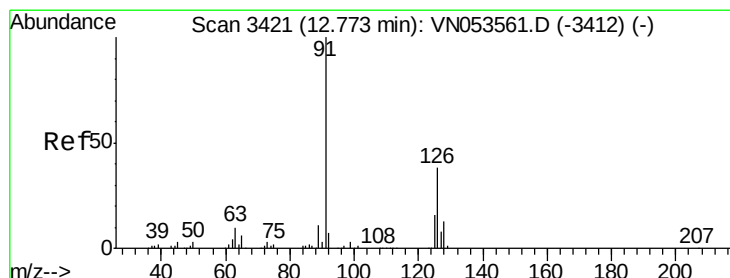
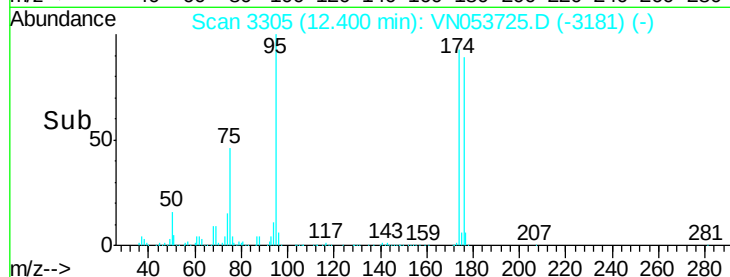
150000

100000

50000

0

Time-->



#82

4-Chlorotoluene

Concen: 1.673 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.04 min

Lab File: VN053725.D

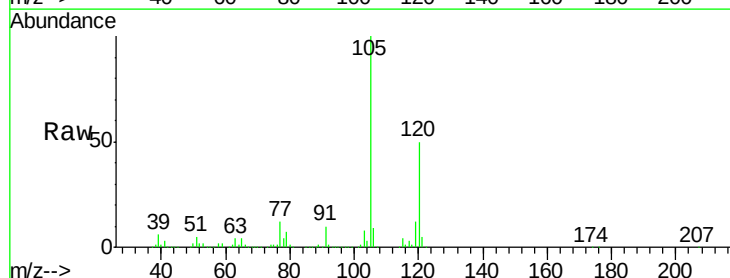
Acq: 12 Feb 2019 12:52

Tgt Ion: 91 Resp: 45621

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.9#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

60000

50000

40000

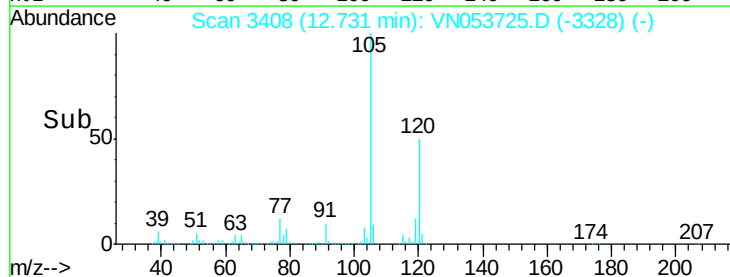
30000

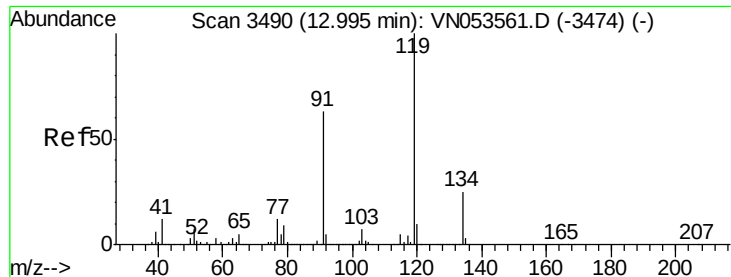
20000

10000

0

Time-->

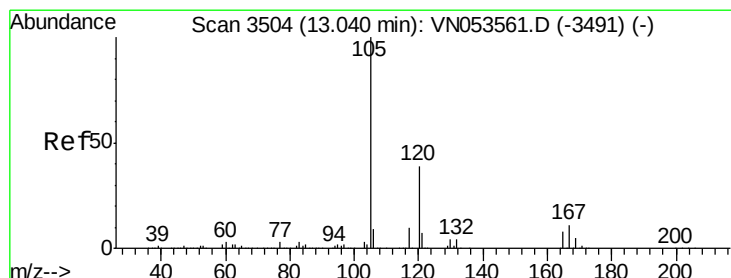
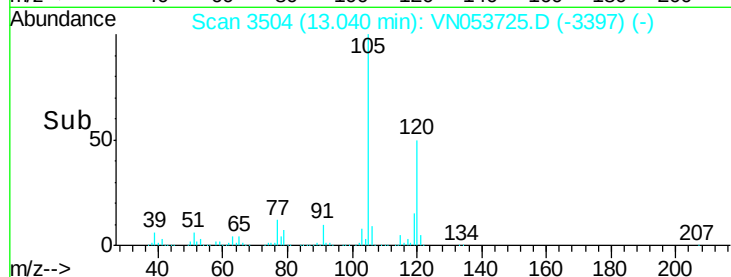
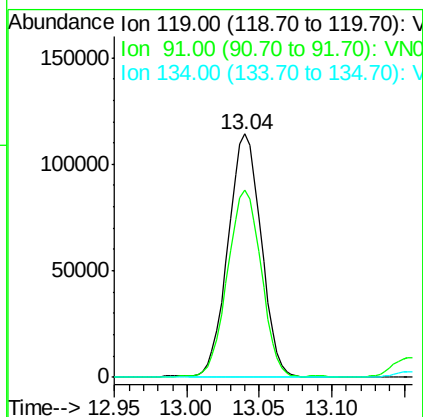
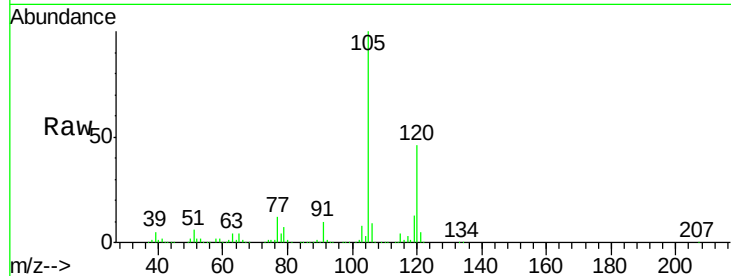




#83  
 tert-Butylbenzene  
 Concen: 6.378 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. 0.05 min  
 Lab File: VN053725.D  
 Acq: 12 Feb 2019 12:52

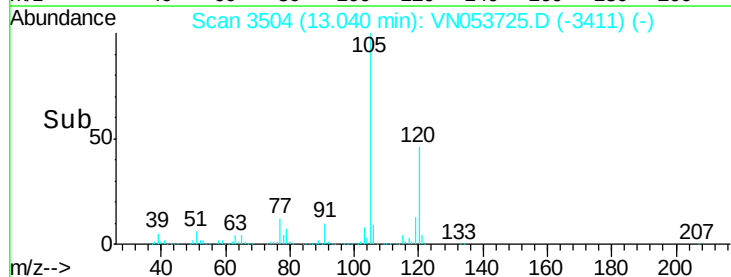
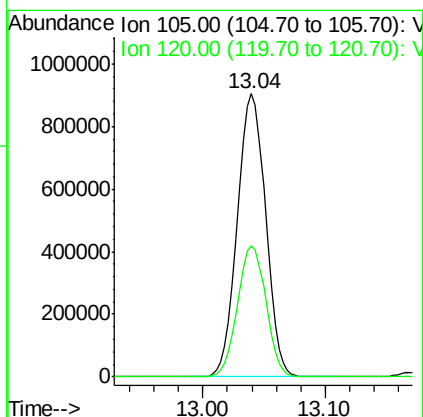
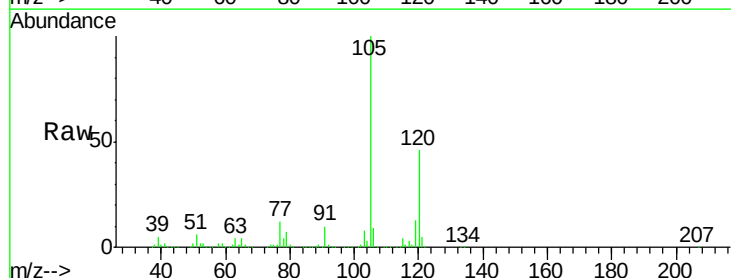
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 IDW-SOIL-01

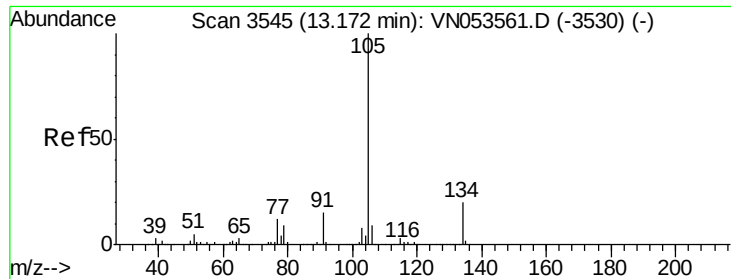
Tot Ion:119 Resp: 181114  
 Ion Ratio Lower Upper  
 119 100  
 91 79.0 31.3 93.8  
 134 0.0 12.9 38.7#



#84  
 1,2,4-Trimethylbenzene  
 Concen: 44.325 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. 0.00 min  
 Lab File: VN053725.D  
 Acq: 12 Feb 2019 12:52

Tgt Ion:105 Resp: 1450876  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 23.0 69.0





#85

sec-Butylbenzene

Concen: 37.547 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.13 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

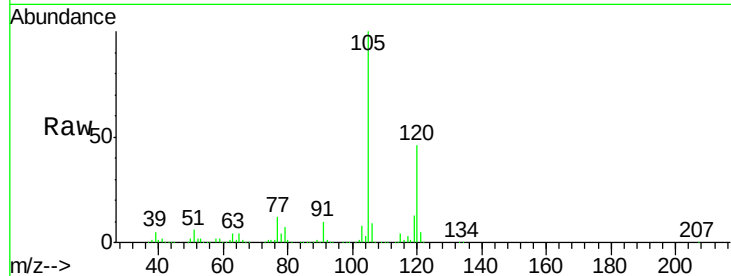
IDW-SOIL-01

Tot Ion:105 Resp: 1450876

Ion Ratio Lower Upper

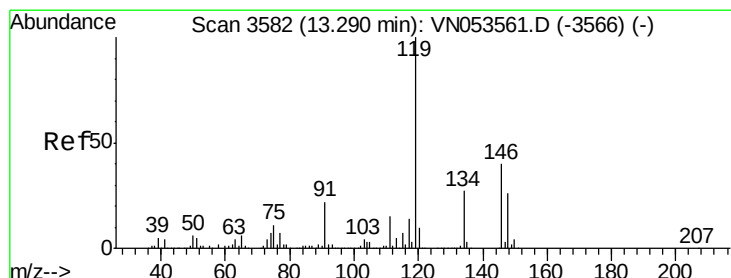
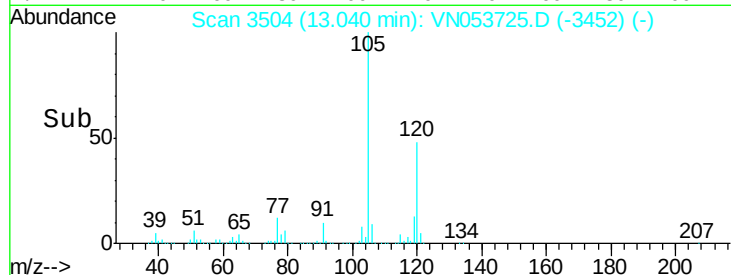
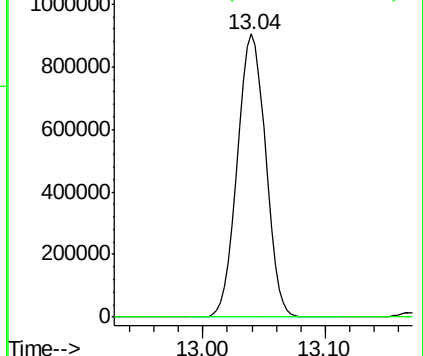
105 100

134 0.0 10.2 30.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.186 ug/l

RT: 13.23 min Scan# 3564

Delta R.T. -0.06 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

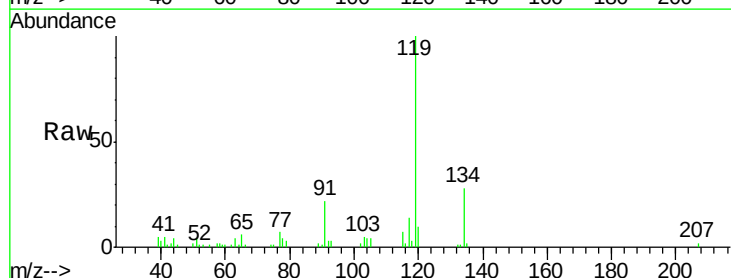
Tgt Ion:119 Resp: 40094

Ion Ratio Lower Upper

119 100

134 29.6 13.5 40.4

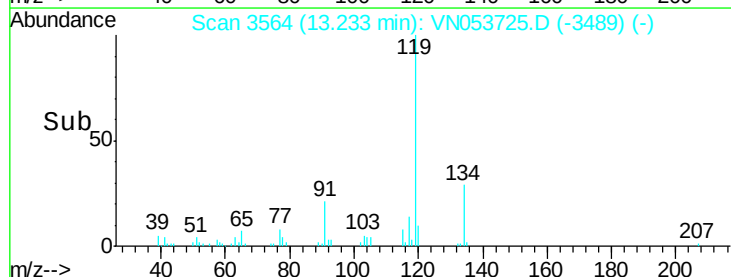
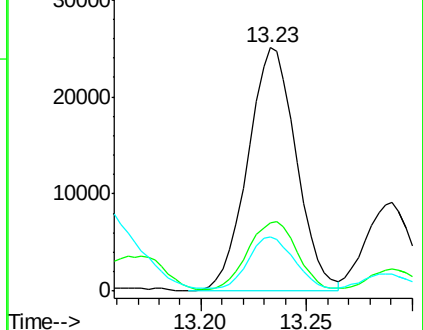
91 19.9 11.0 33.0

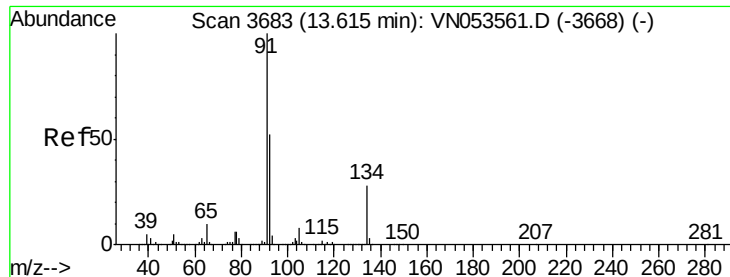


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 0.775 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

IDW-SOIL-01

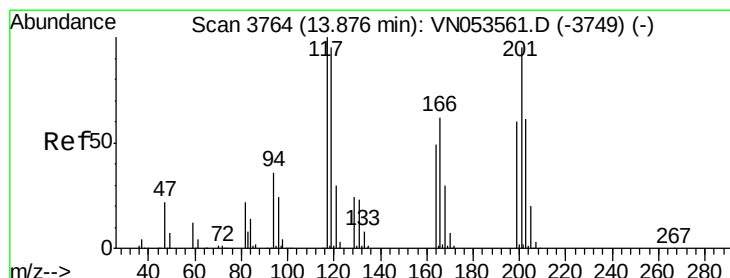
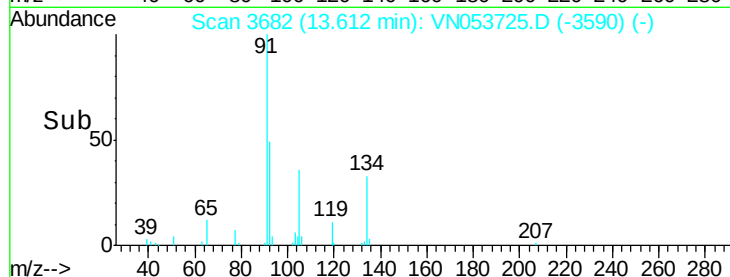
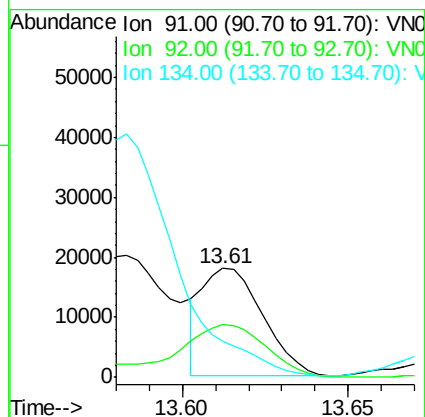
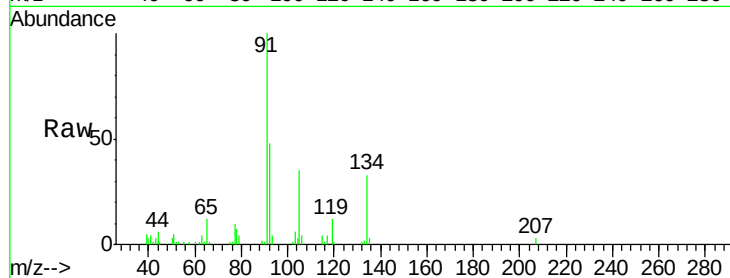
Tot Ion: 91 Resp: 22682

Ion Ratio Lower Upper

91 100

92 78.7 26.3 78.8

134 0.0 13.5 40.5#



#90

Hexachloroethane

Concen: 3.179 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN053725.D

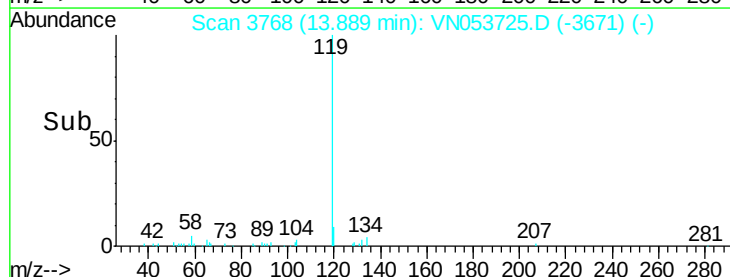
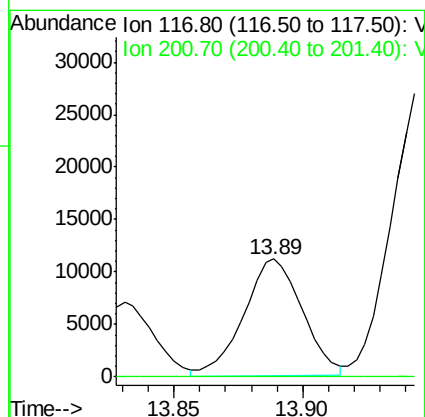
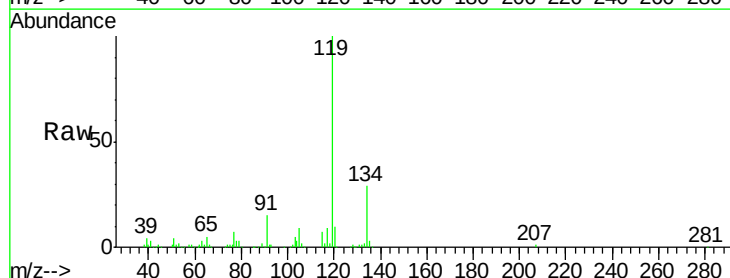
Acq: 12 Feb 2019 12:52

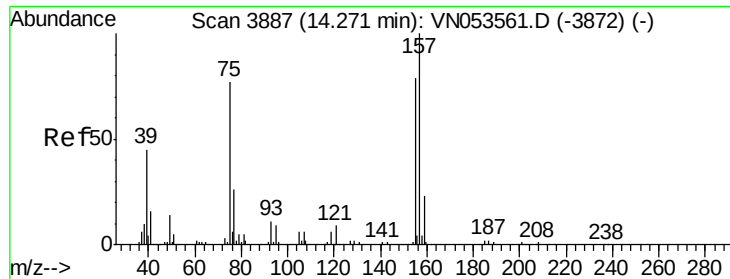
Tgt Ion: 117 Resp: 17721

Ion Ratio Lower Upper

117 100

201 0.0 46.8 140.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.037 ug/l

RT: 14.25 min Scan# 3880

Delta R.T. -0.02 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA\_N

ClientSampled :

IDW-SOIL-01

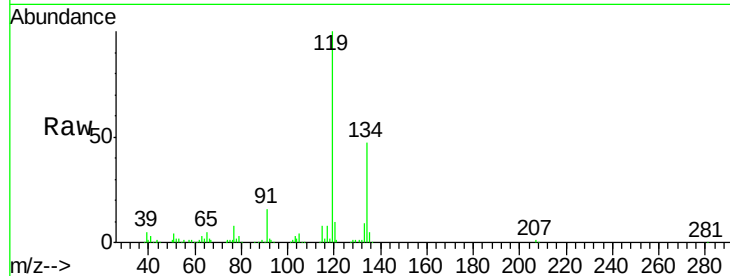
Tot Ion: 75 Resp: 1370

Ion Ratio Lower Upper

75 100

155 0.0 48.9 146.7#

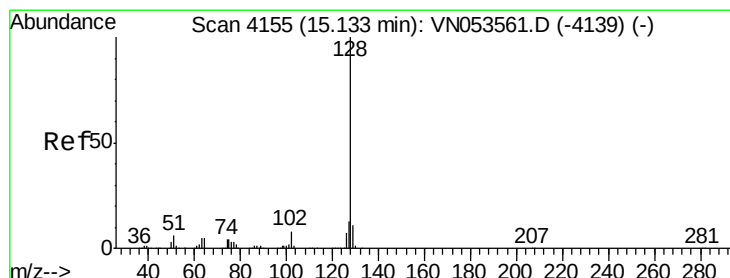
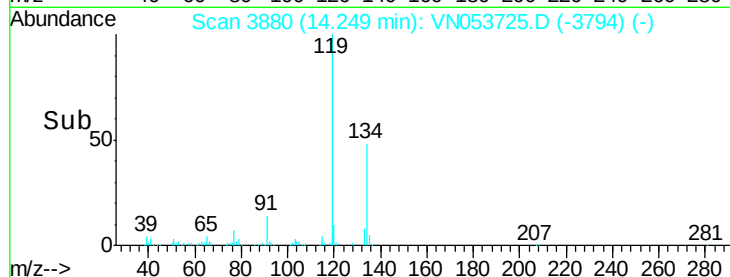
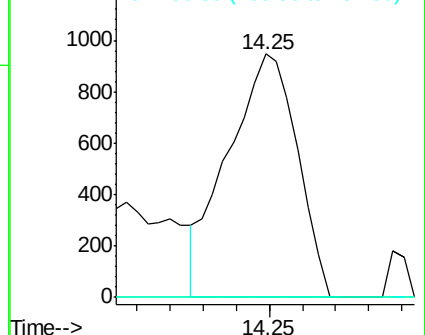
157 0.0 63.7 191.3#



Abundance Ion 74.90 (74.60 to 75.60): VN053725.D (-3794) (-)

Ion 154.80 (154.50 to 155.50): VN053725.D (-3794) (-)

Ion 156.80 (156.50 to 157.50): VN053725.D (-3794) (-)



#95

Naphthalene

Concen: 13.222 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

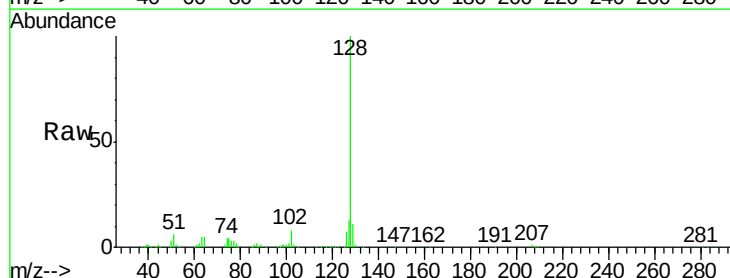
Tgt Ion: 128 Resp: 288080

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

129 10.4 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): VN053725.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN053725.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN053725.D (-4061) (-)

