

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041419\  
 Data File : VN055024.D  
 Acq On : 13 Apr 2019 12:49  
 Operator : JC/SP  
 Sample : K2383-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-6

Quant Time: Apr 14 03:23:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Apr 13 03:34:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 547015   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 874536   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 743933   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 246678   | 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   | 350599   | 51.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.14% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 278819   | 50.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.02% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1047510  | 51.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.32% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 314498   | 45.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.20%  |          |

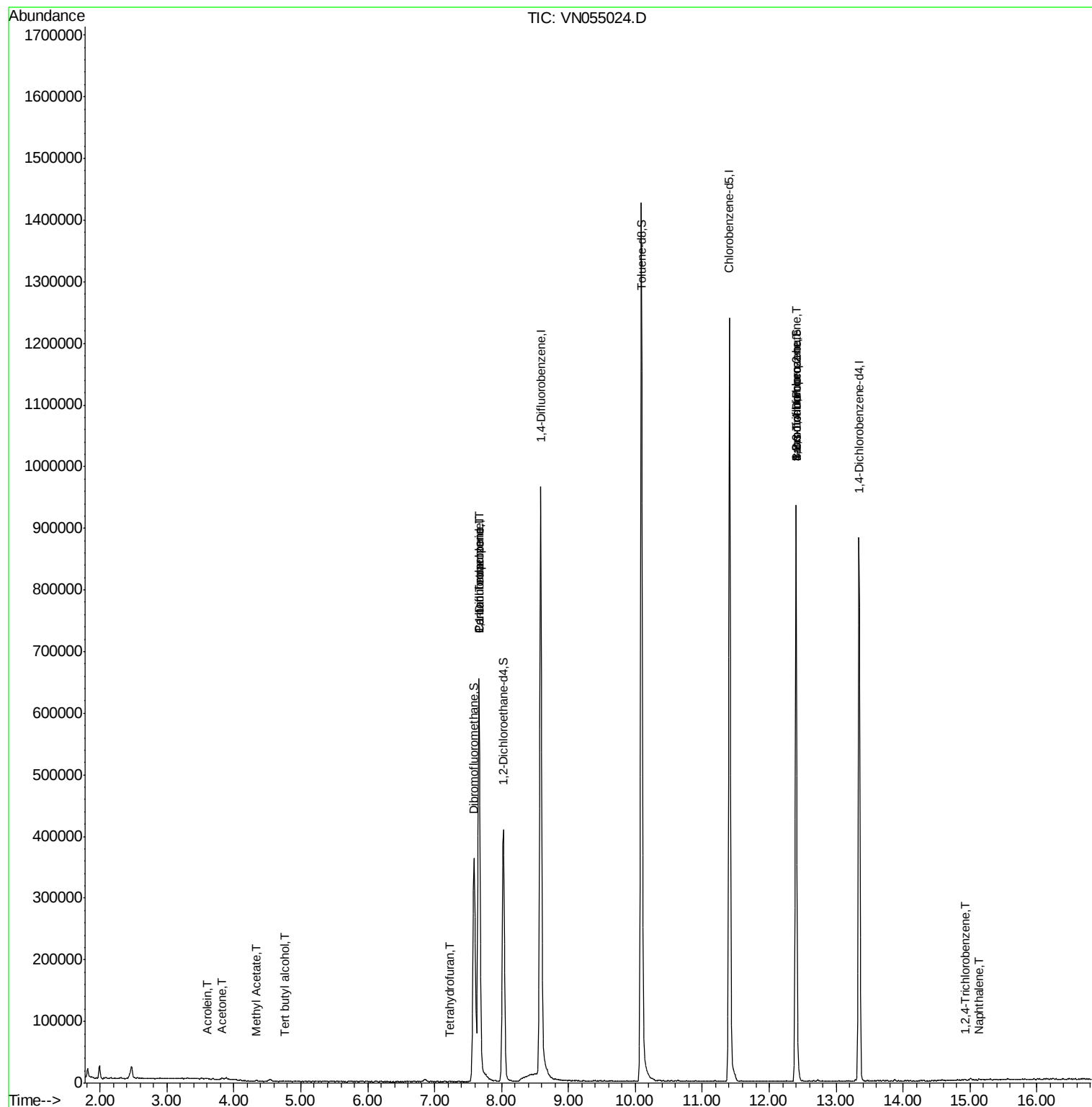
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.76  | 59   | 239      | 0.566     | ug/l # | 72     |
| 13) Acrolein                   | 3.60  | 56   | 473      | 0.928     | ug/l # | 44     |
| 16) Acetone                    | 3.82  | 43   | 1217     | 0.645     | ug/l # | 81     |
| 18) Methyl Acetate             | 4.33  | 43   | 3110     | 0.532     | ug/l # | 60     |
| 20) Methylene Chloride         | 4.55  | 84   | 1254     | Below Cal | #      | 64     |
| 29) Tetrahydrofuran            | 7.23  | 42   | 542      | 0.285     | ug/l # | 39     |
| 31) Cyclohexane                | 7.66  | 56   | 11037    | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 41727    | 5.163     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 51595    | 6.782     | ug/l # | 17     |
| 71) Bromoform                  | 12.39 | 173  | 620      | 2.747     | ug/l # | 29     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 162546   | 35.817    | ug/l # | 100    |
| 77) Bromobenzene               | 12.52 | 156  | 134      | Below Cal | #      | 22     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 162546   | 147.833   | ug/l # | 2      |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 627      | 3.675     | ug/l # | 56     |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 389      | Below Cal |        | 84     |
| 95) Naphthalene                | 15.14 | 128  | 1519     | 4.822     | ug/l # | 78     |

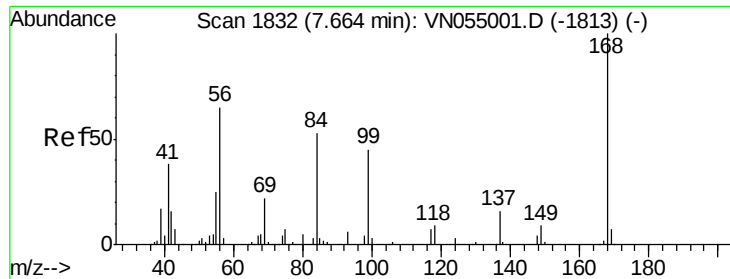
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN041419\  
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Sample : K2383-01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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STORAGE-BLANK-SOIL-REF-6

Quant Time: Apr 14 03:23:41 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N041319W.M  
Quant Title : SW846 8260  
QLast Update : Sat Apr 13 03:34:24 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

Instrument :

MSVOA\_N

ClientSampleId :

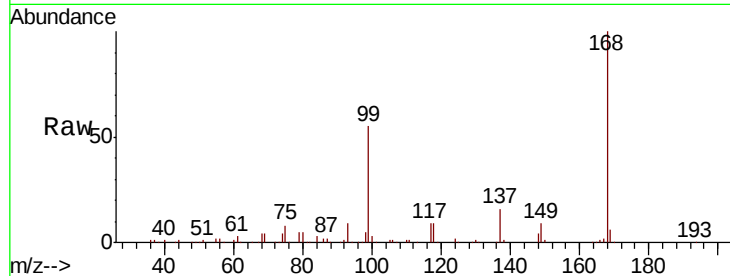
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 547015

Ion Ratio Lower Upper

168 100

99 55.1 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

250000

200000

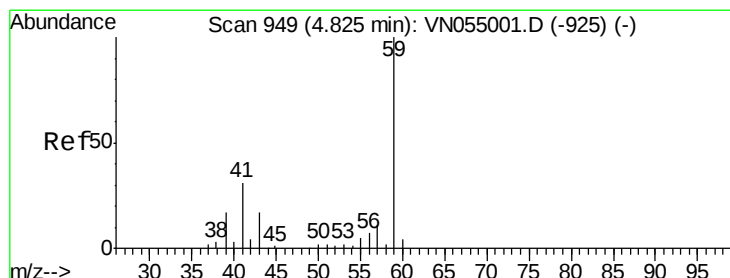
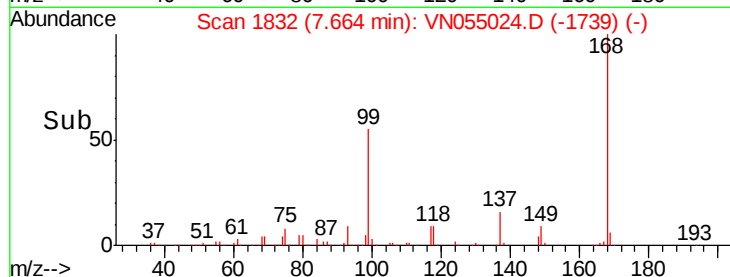
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.566 ug/l

RT: 4.76 min Scan# 930

Delta R.T. -0.06 min

Lab File: VN055024.D

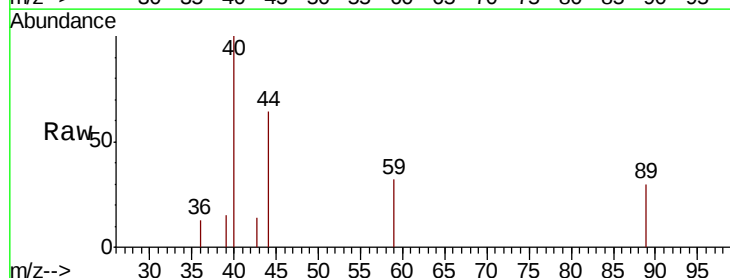
Acq: 13 Apr 2019 12:49

Tgt Ion: 59 Resp: 239

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

500

400

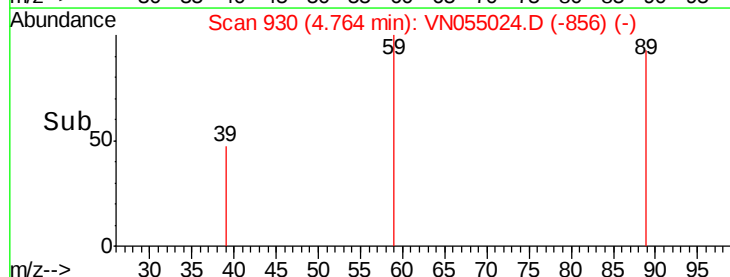
300

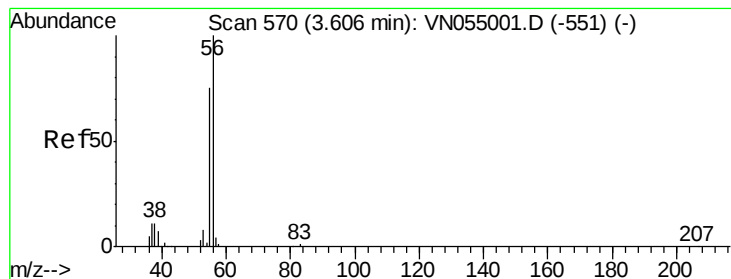
200

100

0

Time-->





#13

Acrolein

Concen: 0.928 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

Instrument :

MSVOA\_N

ClientSampleId :

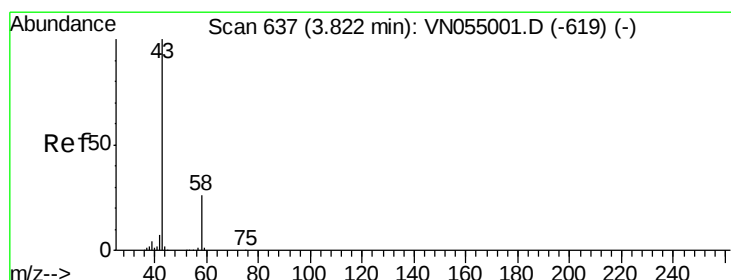
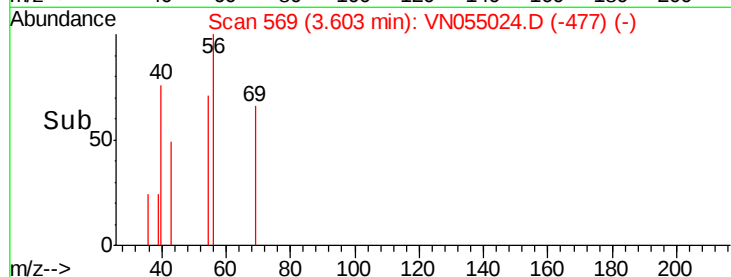
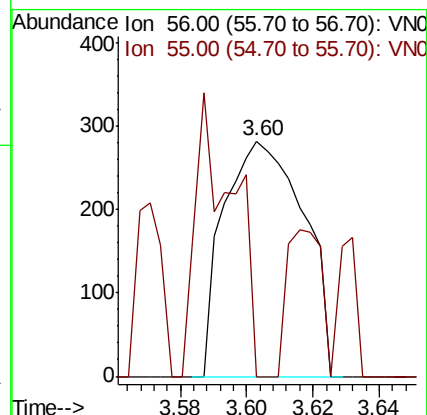
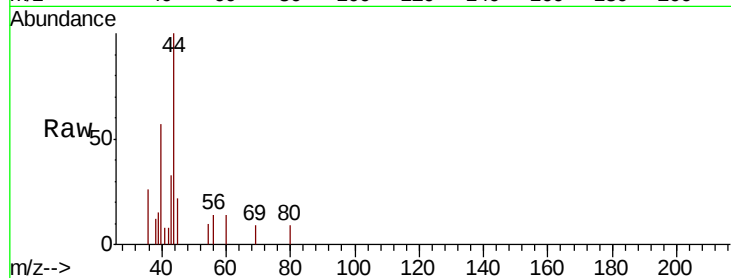
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 56 Resp: 473

Ion Ratio Lower Upper

56 100

55 26.8 59.5 89.3#



#16

Acetone

Concen: 0.645 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055024.D

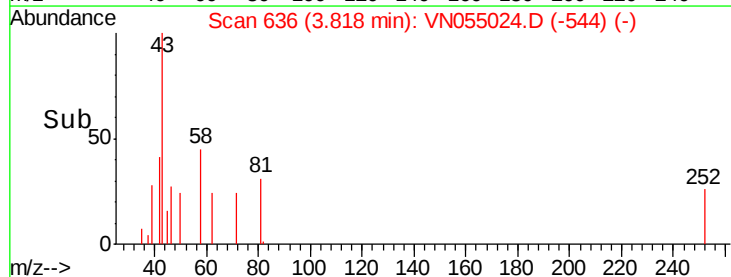
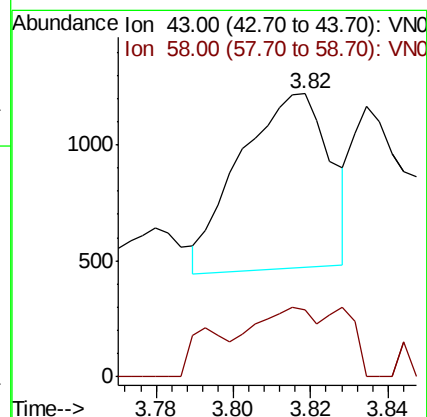
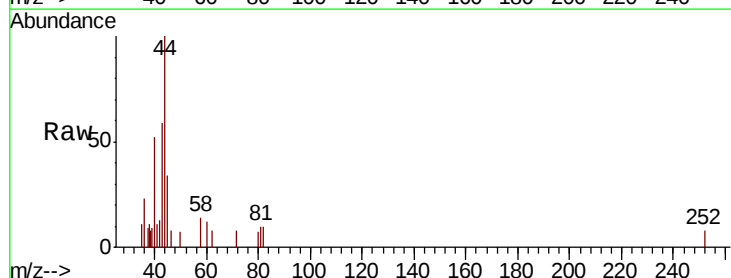
Acq: 13 Apr 2019 12:49

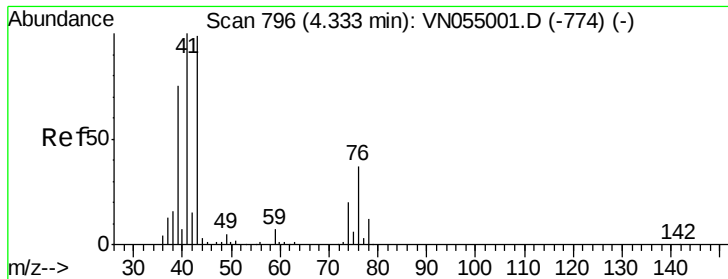
Tgt Ion: 43 Resp: 1217

Ion Ratio Lower Upper

43 100

58 16.6 20.9 31.3#





#18

Methvl Acetate

Concen: 0.532 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

Instrument :

MSVOA\_N

ClientSampleId :

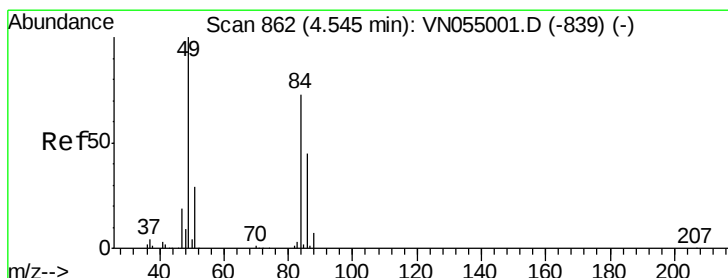
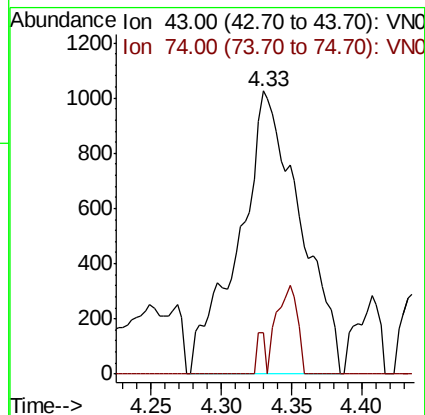
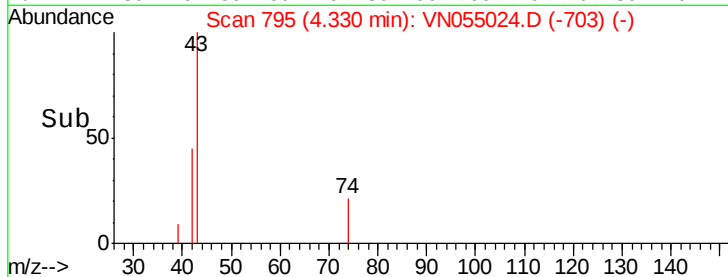
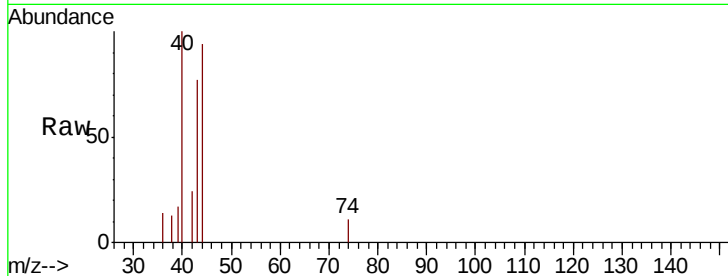
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 3110

Ion Ratio Lower Upper

43 100

74 1.9 16.1 24.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.55 min Scan# 862

Delta R.T. 0.00 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

Tgt Ion: 84 Resp: 1254

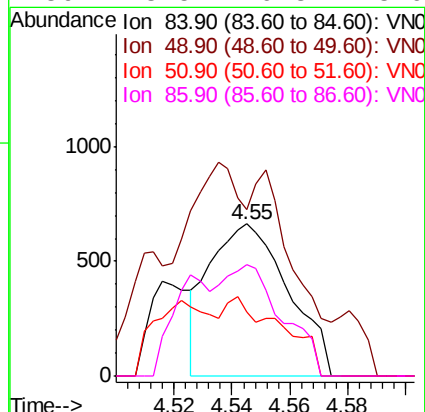
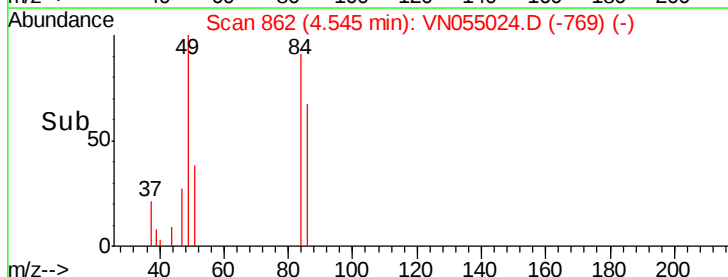
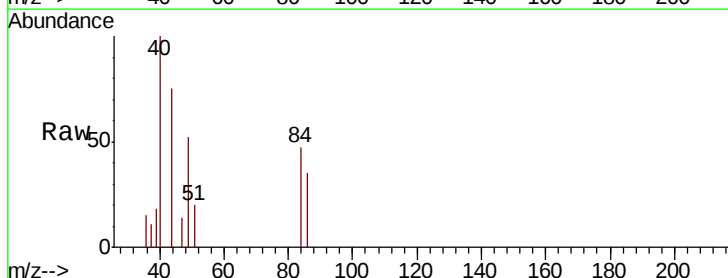
Ion Ratio Lower Upper

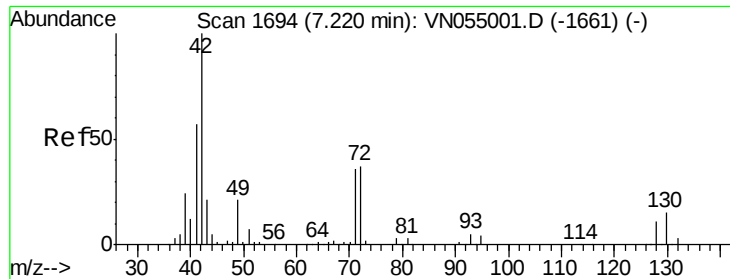
84 100

49 71.0 109.4 164.2#

51 42.1 32.2 48.4

86 73.5 49.3 73.9

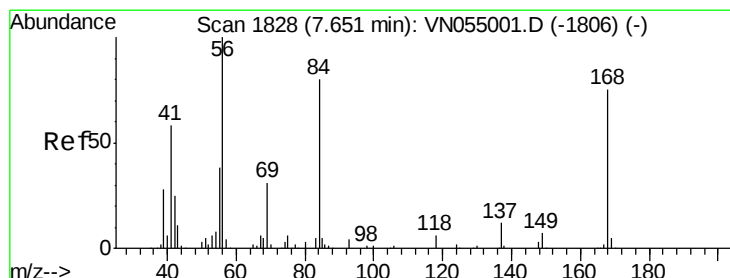
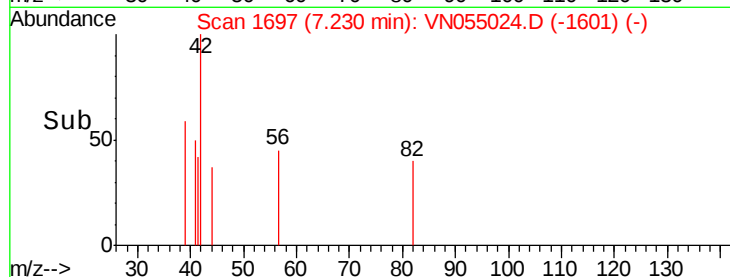
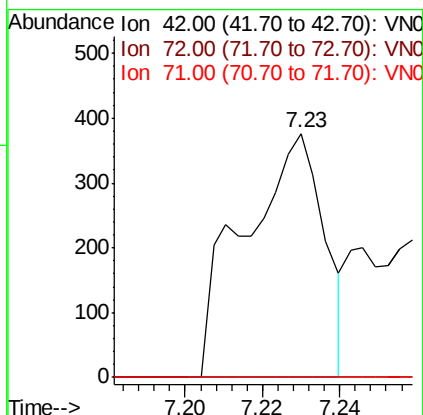
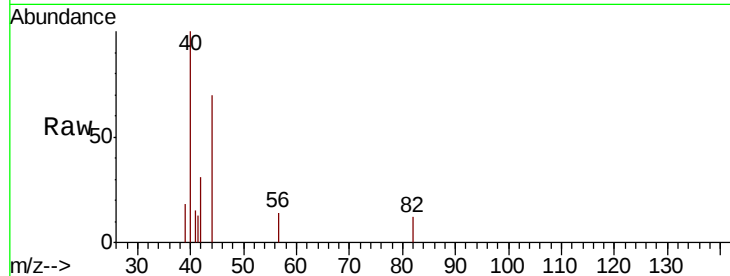




#29  
Tetrahydrofuran  
Concen: 0.285 ug/l  
RT: 7.23 min Scan# 1697  
Delta R.T. 0.01 min  
Lab File: VN055024.D  
Acq: 13 Apr 2019 12:49

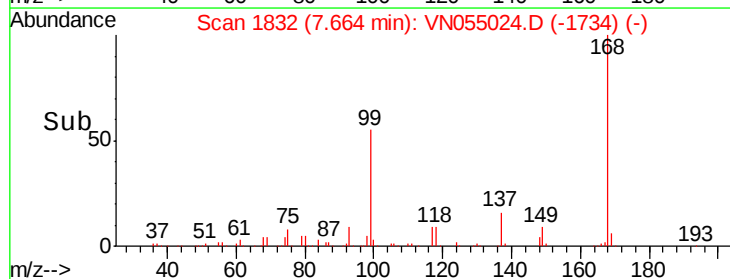
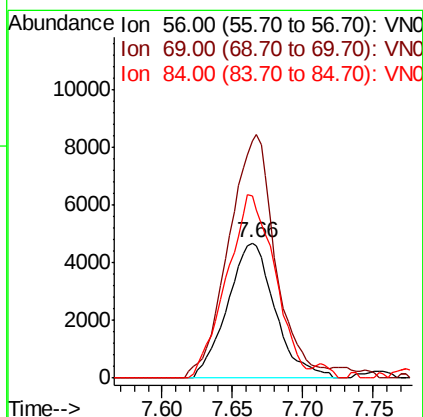
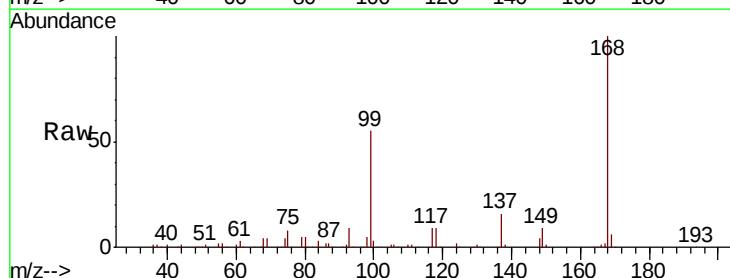
Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-6

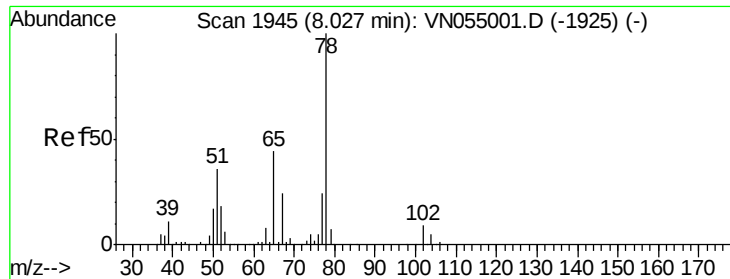
Tot Ion: 42 Resp: 542  
Ion Ratio Lower Upper  
42 100  
72 0.0 29.4 44.0#  
71 0.0 27.8 41.6#



#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.01 min  
Lab File: VN055024.D  
Acq: 13 Apr 2019 12:49

Tgt Ion: 56 Resp: 11037  
Ion Ratio Lower Upper  
56 100  
69 170.0 24.5 36.7#  
84 134.7 62.9 94.3#

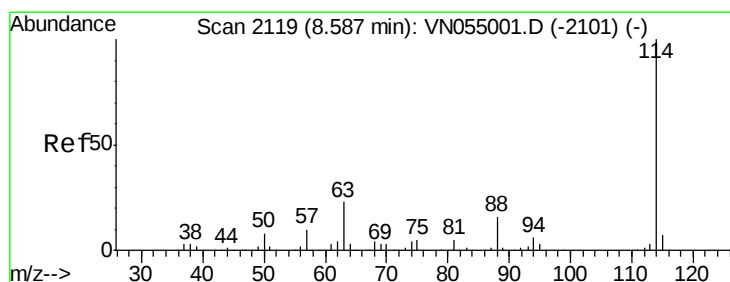
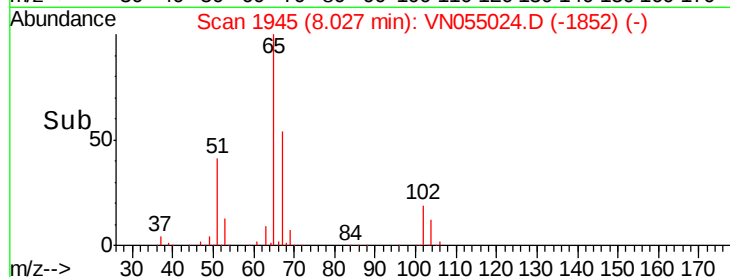
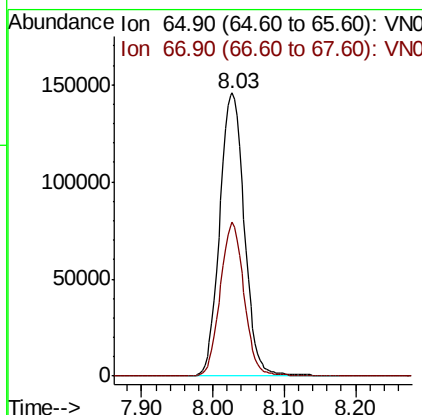
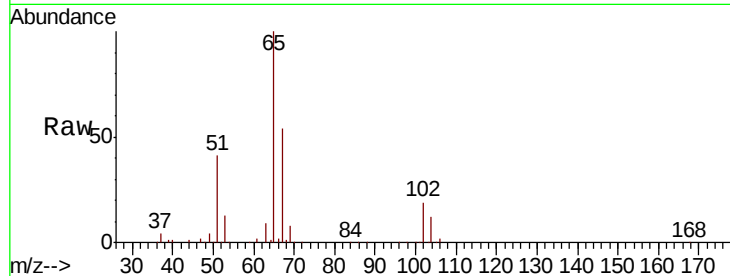




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.073 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN055024.D  
 Acq: 13 Apr 2019 12:49

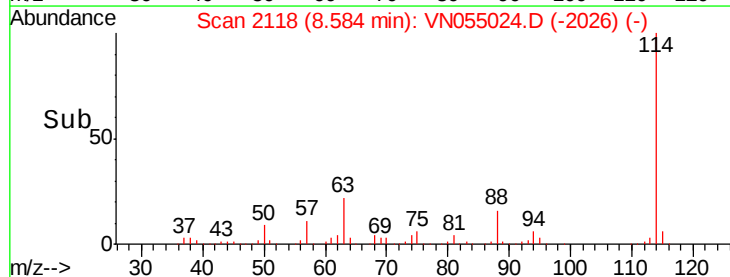
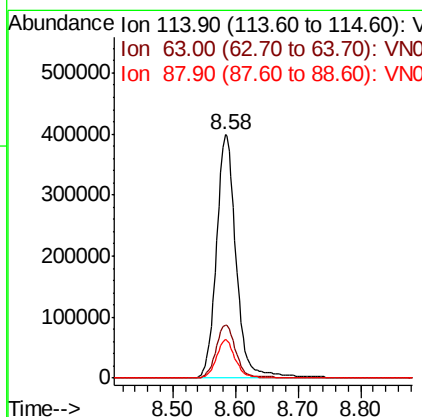
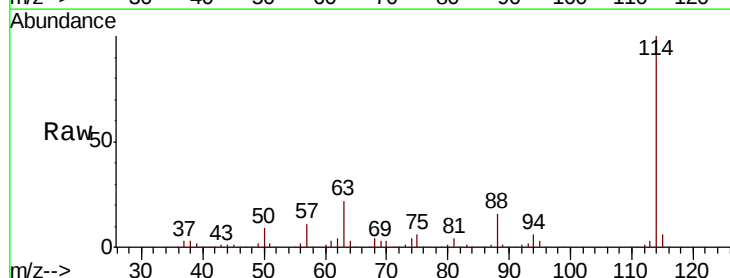
Instrument :  
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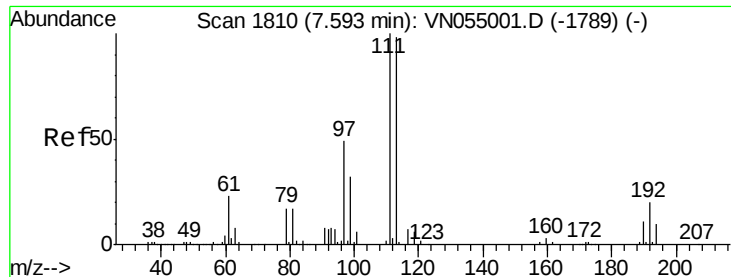
Tot Ion: 65 Resp: 350599  
 Ion Ratio Lower Upper  
 65 100  
 67 52.6 0.0 106.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN055024.D  
 Acq: 13 Apr 2019 12:49

Tgt Ion: 114 Resp: 874536  
 Ion Ratio Lower Upper  
 114 100  
 63 22.0 0.0 45.2  
 88 15.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.013 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

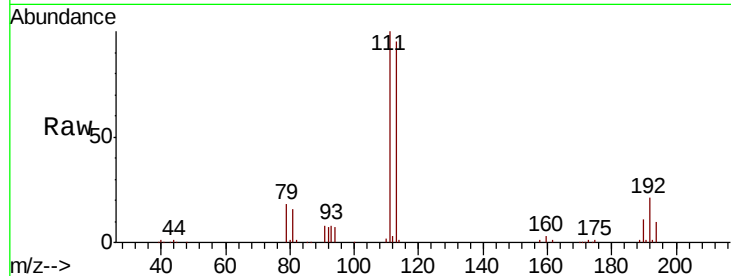
Tot Ion:113 Resp: 278819

Ion Ratio Lower Upper

113 100

111 102.3 82.1 123.1

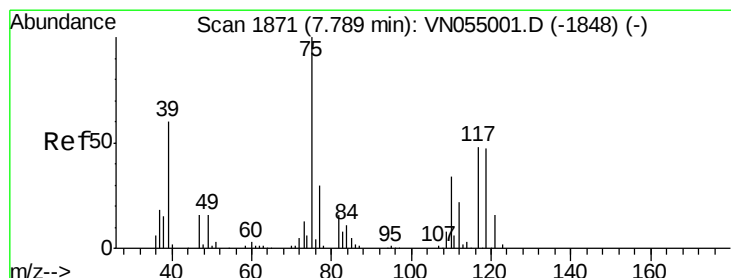
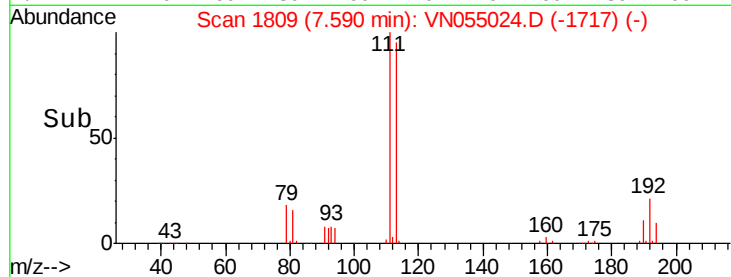
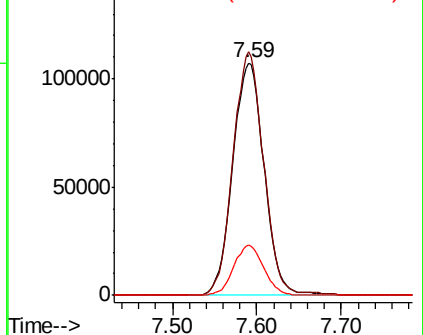
192 20.7 16.5 24.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.163 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

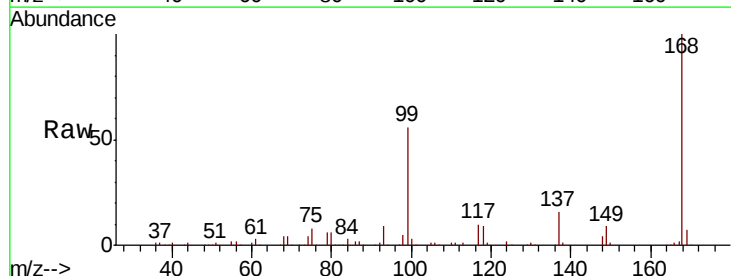
Tgt Ion: 75 Resp: 41727

Ion Ratio Lower Upper

75 100

110 7.8 17.5 52.5#

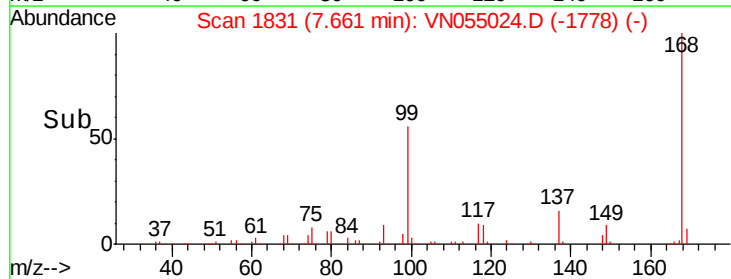
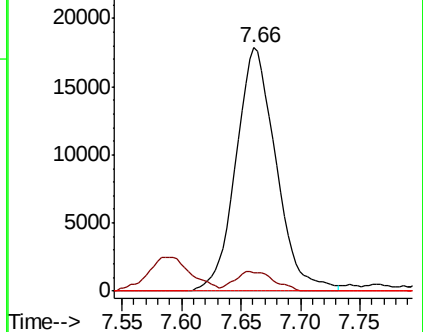
77 0.0 24.9 37.3#

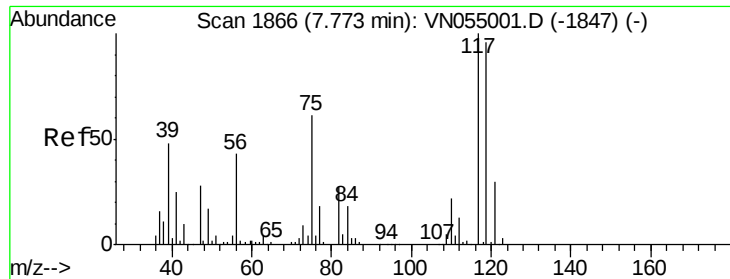


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

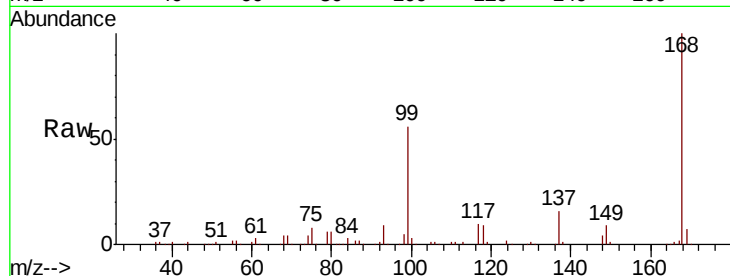




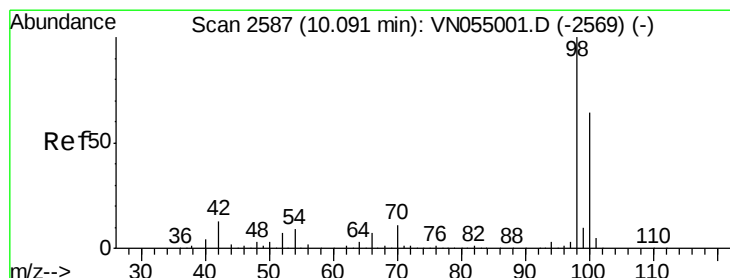
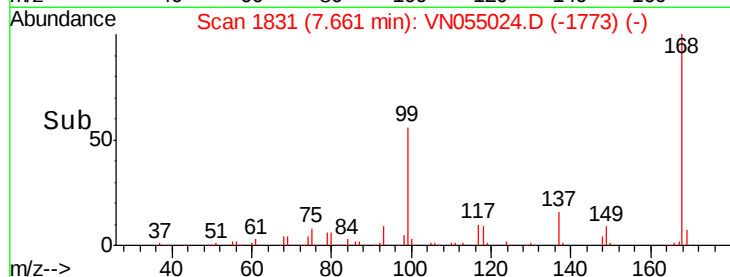
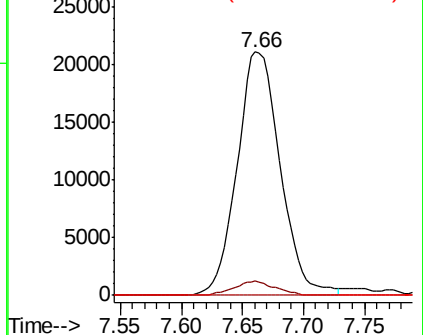
#38  
Carbon Tetrachloride  
Concen: 6.782 ug/l  
RT: 7.66 min Scan# 1831  
Delta R.T. -0.11 min  
Lab File: VN055024.D  
Acq: 13 Apr 2019 12:49

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-6

Tot Ion:117 Resp: 51595  
Ion Ratio Lower Upper  
117 100  
119 5.7 76.3 114.5#  
121 0.0 23.9 35.9#

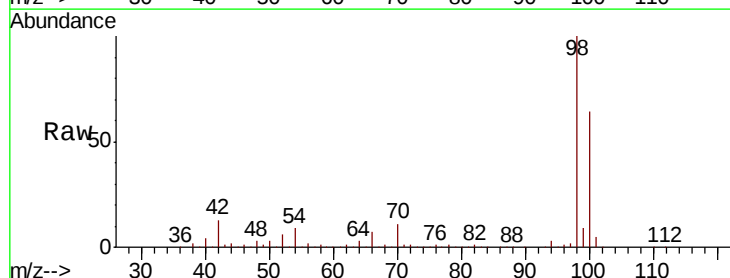


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

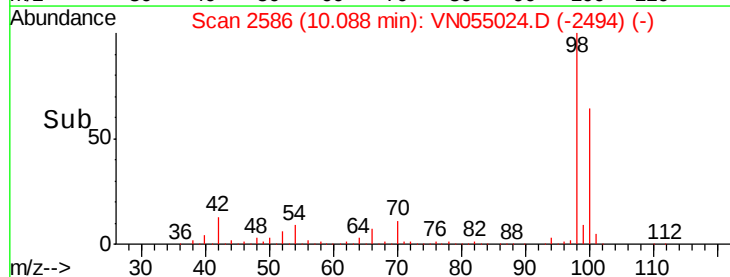
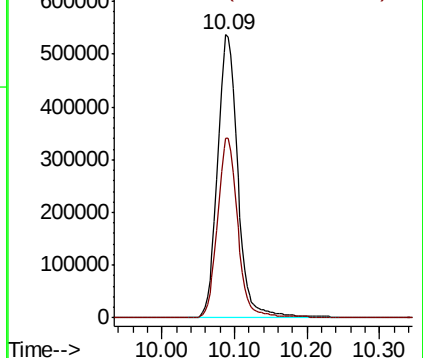


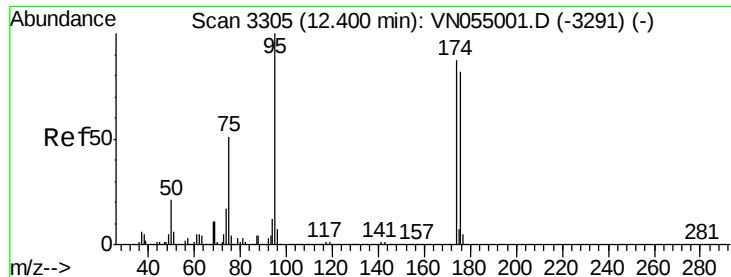
#50  
Toluene-d8  
Concen: 51.158 ug/l  
RT: 10.09 min Scan# 2586  
Delta R.T. -0.00 min  
Lab File: VN055024.D  
Acq: 13 Apr 2019 12:49

Tgt Ion: 98 Resp: 1047510  
Ion Ratio Lower Upper  
98 100  
100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN  
Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 45.598 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

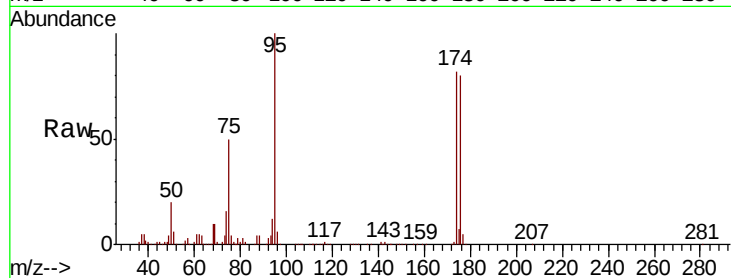
Tot Ion: 95 Resp: 314498

Ion Ratio Lower Upper

95 100

174 84.3 0.0 174.4

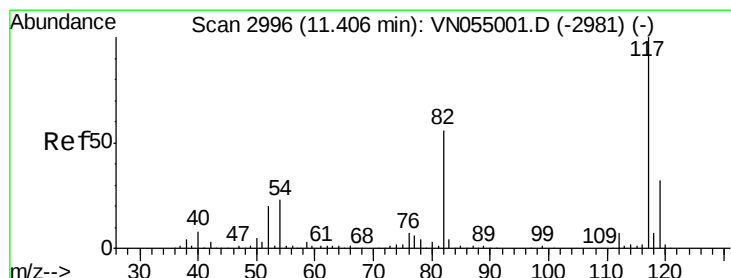
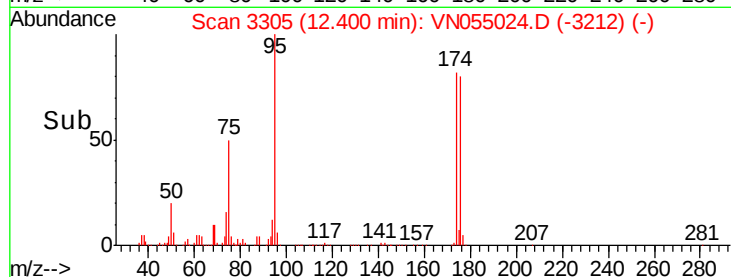
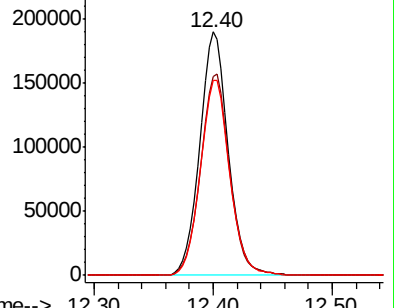
176 82.6 0.0 166.8



Abundance Ion 94.90 (94.60 to 95.60): VN055001.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055001.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055001.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

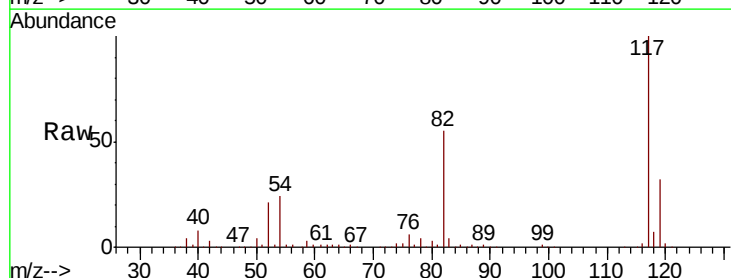
Tgt Ion: 117 Resp: 743933

Ion Ratio Lower Upper

117 100

82 55.3 44.6 66.8

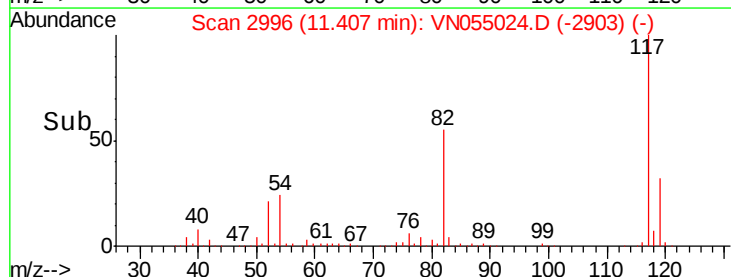
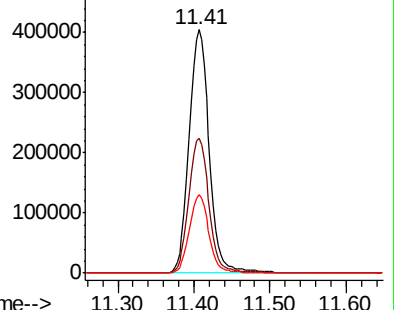
119 32.0 25.5 38.3

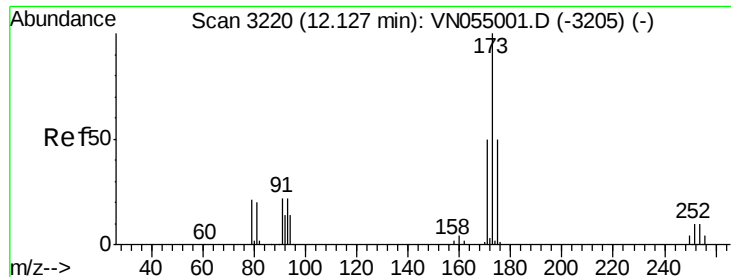


Abundance Ion 116.90 (116.60 to 117.60): VN055001.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055001.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055001.D (-2981) (-)





#71

Bromoform

Concen: 2.747 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

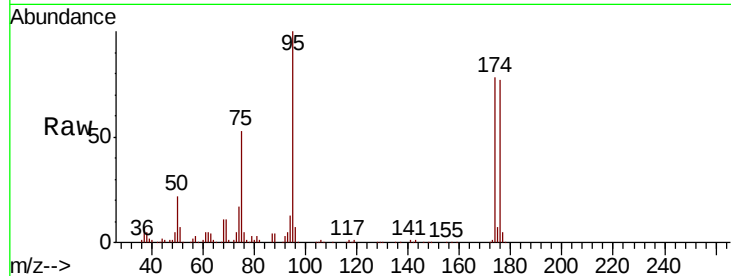
Tot Ion:173 Resp: 620

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

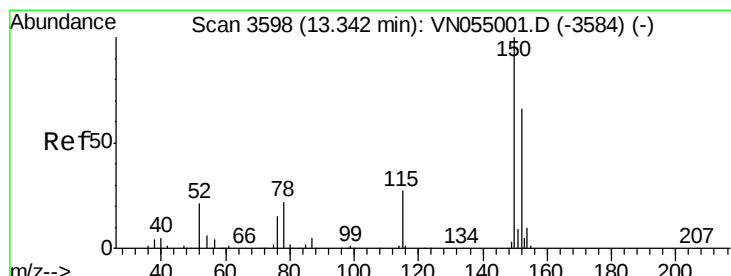
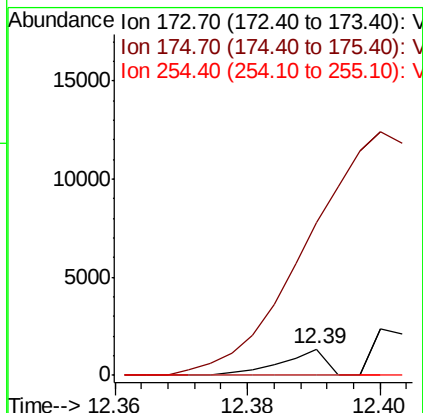
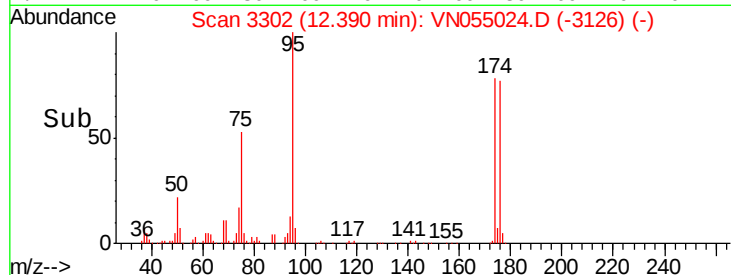
254 0.0 0.1 0.1#



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: VN055024.D

Acq: 13 Apr 2019 12:49

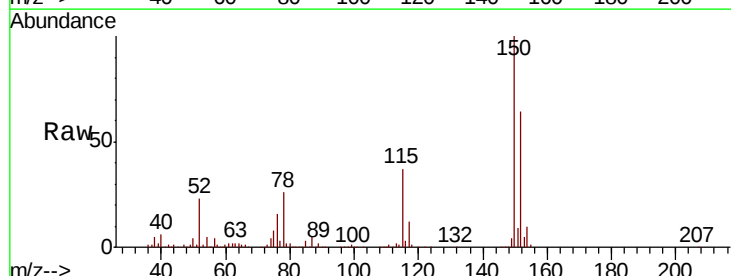
Tgt Ion:152 Resp: 246678

Ion Ratio Lower Upper

152 100

115 57.3 28.5 85.6

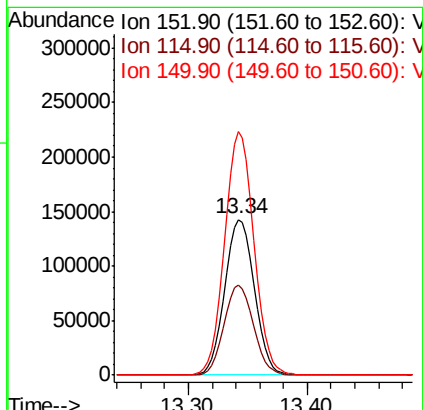
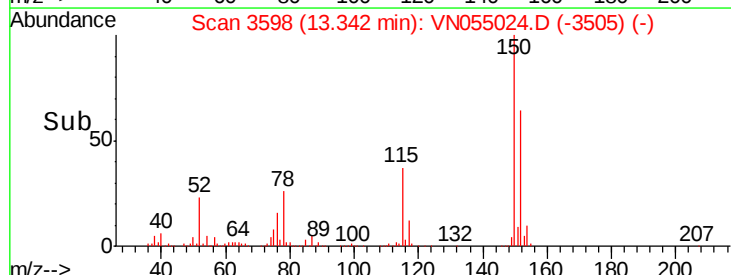
150 154.5 0.0 347.2

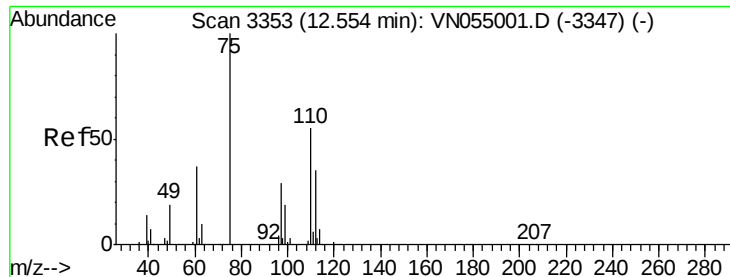


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.817 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

Instrument :

MSVOA\_N

ClientSampleId :

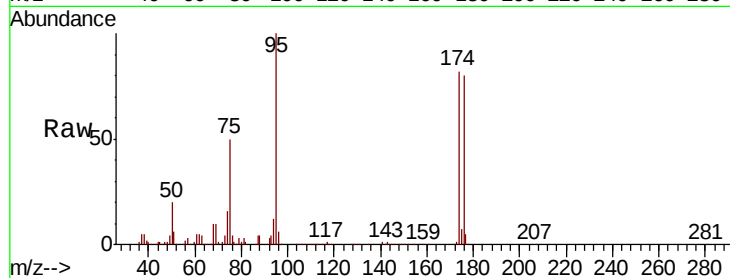
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 75 Resp: 162546

Ion Ratio Lower Upper

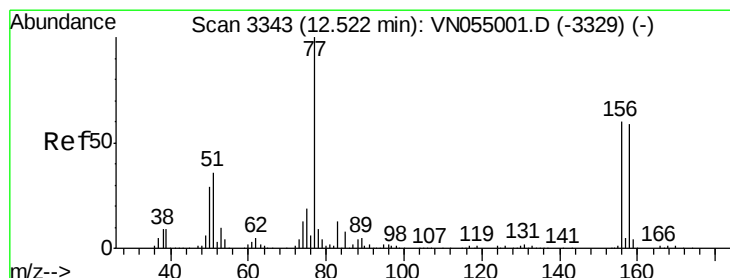
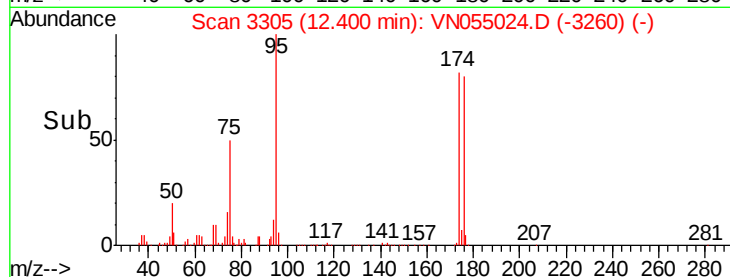
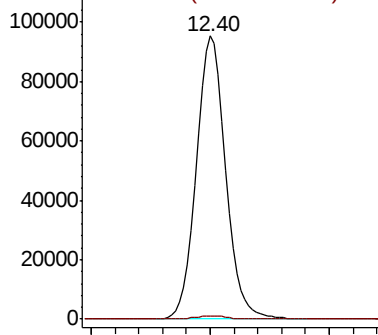
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: Below Cal

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

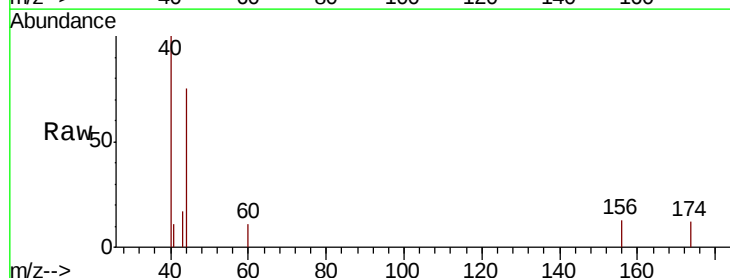
Tgt Ion: 156 Resp: 134

Ion Ratio Lower Upper

156 100

77 93.3 97.2 291.5#

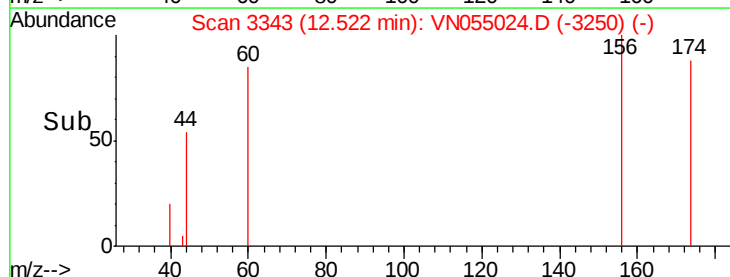
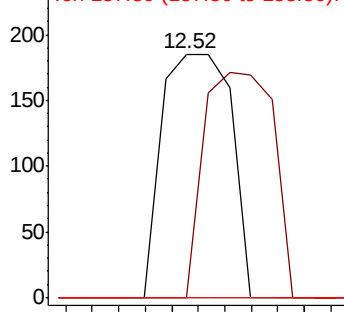
158 0.0 48.6 145.9#

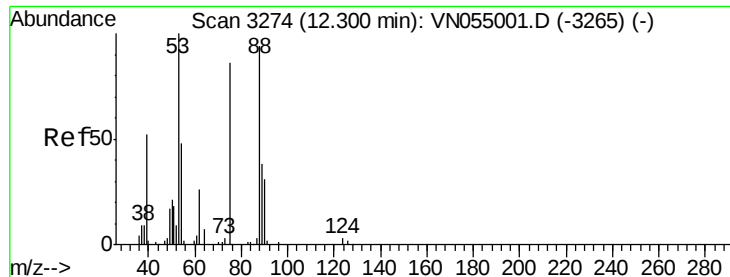


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V





#81

trans-1,4-Dichloro-2-butene

Concen: 147.833 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

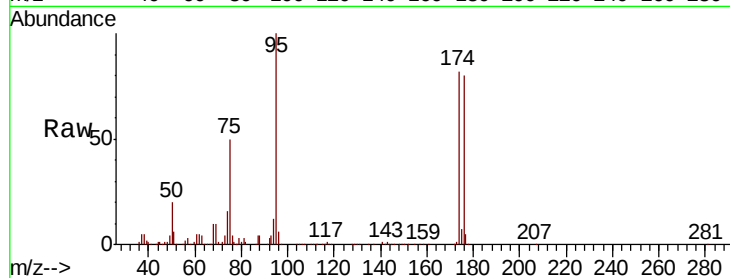
Tot Ion: 75 Resp: 162546

Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

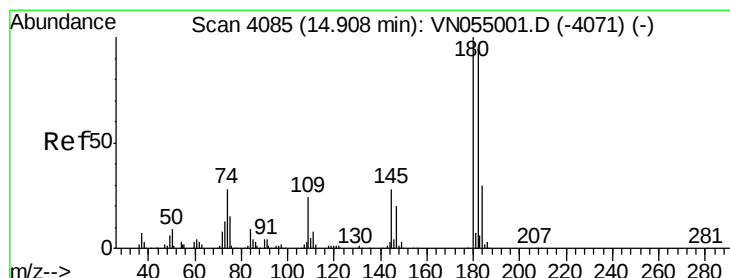
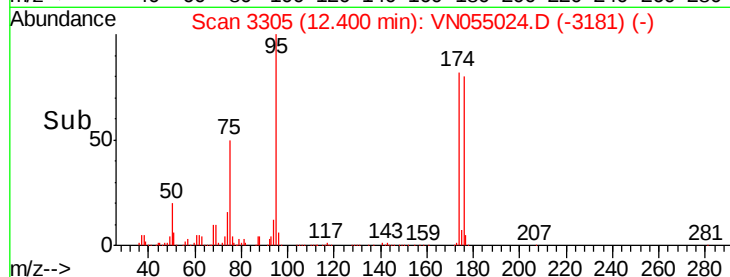
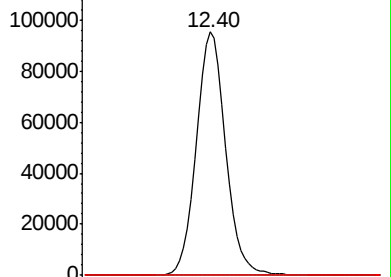
89 0.0 38.6 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VN055001.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN055001.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN055001.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.675 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

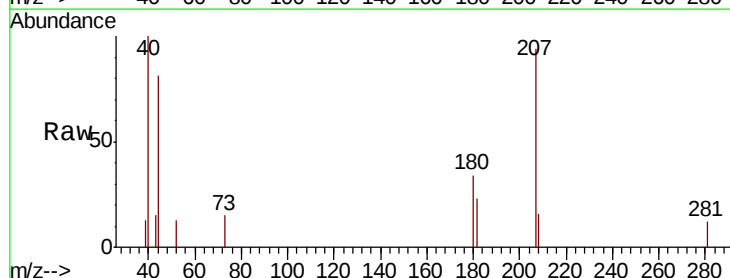
Tgt Ion: 180 Resp: 627

Ion Ratio Lower Upper

180 100

182 49.4 47.5 142.6

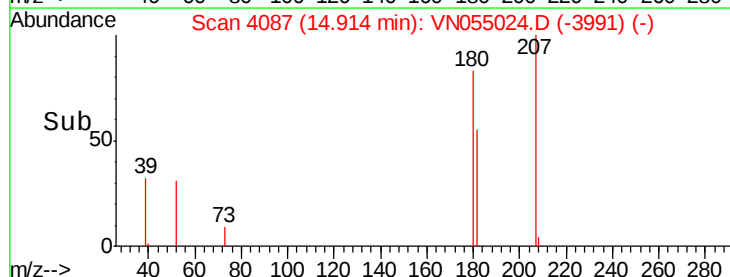
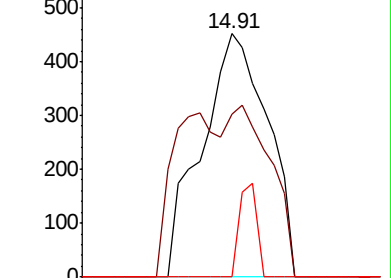
145 10.2 14.2 42.8#

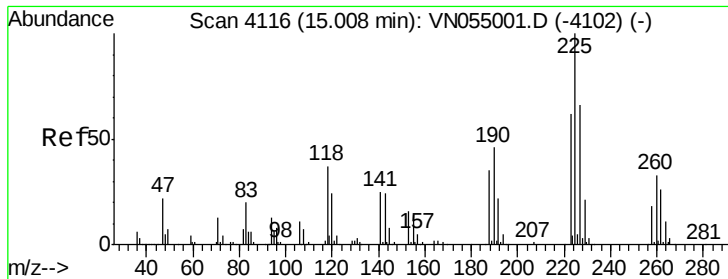


Abundance Ion 179.80 (179.50 to 180.50): VN055001.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN055001.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN055001.D (-4071) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

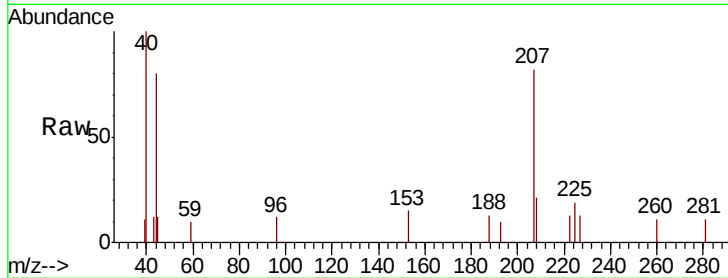
Tot Ion:225 Resp: 389

Ion Ratio Lower Upper

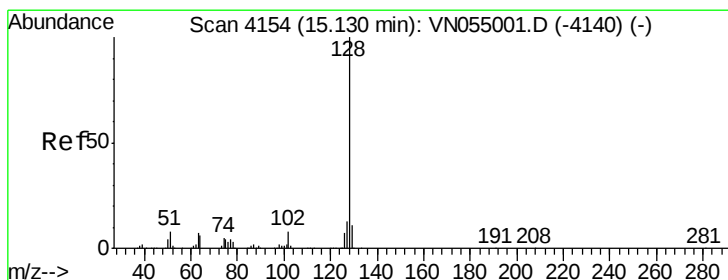
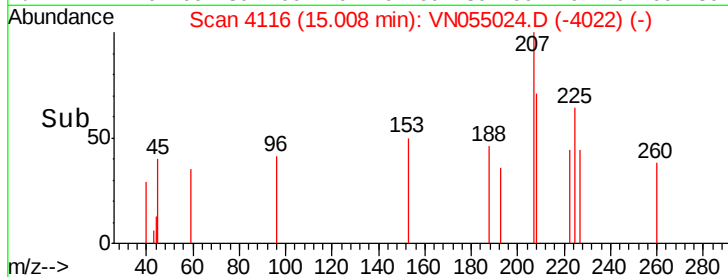
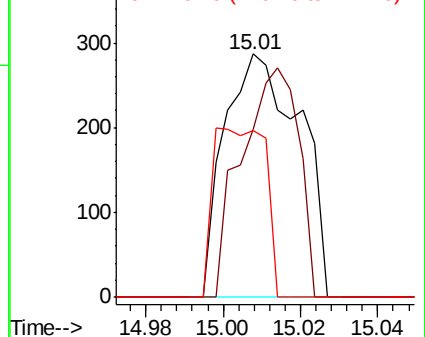
225 100

223 71.2 31.4 94.0

227 48.3 32.6 97.7



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: 4.822 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN055024.D

Acq: 13 Apr 2019 12:49

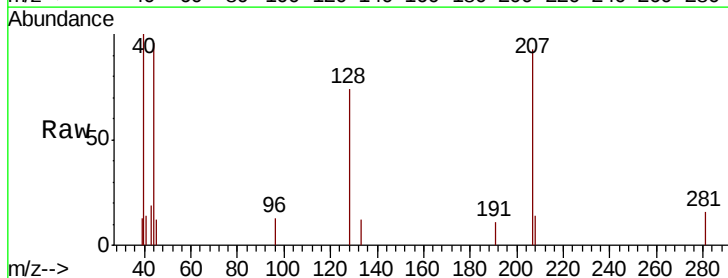
Tgt Ion:128 Resp: 1519

Ion Ratio Lower Upper

128 100

127 6.5 10.1 15.1#

129 0.0 8.8 13.2#



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

