

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\  
 Data File : VN056105.D  
 Acq On : 7 Jun 2019 18:04  
 Operator : JC/SP  
 Sample : K3251-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: Jun 08 05:12:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 329702   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 500400   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 465657   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 142596   | 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   | 161675   | 49.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.78%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 145651   | 47.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.88%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 595326   | 50.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.78% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 184579   | 45.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.88%  |          |

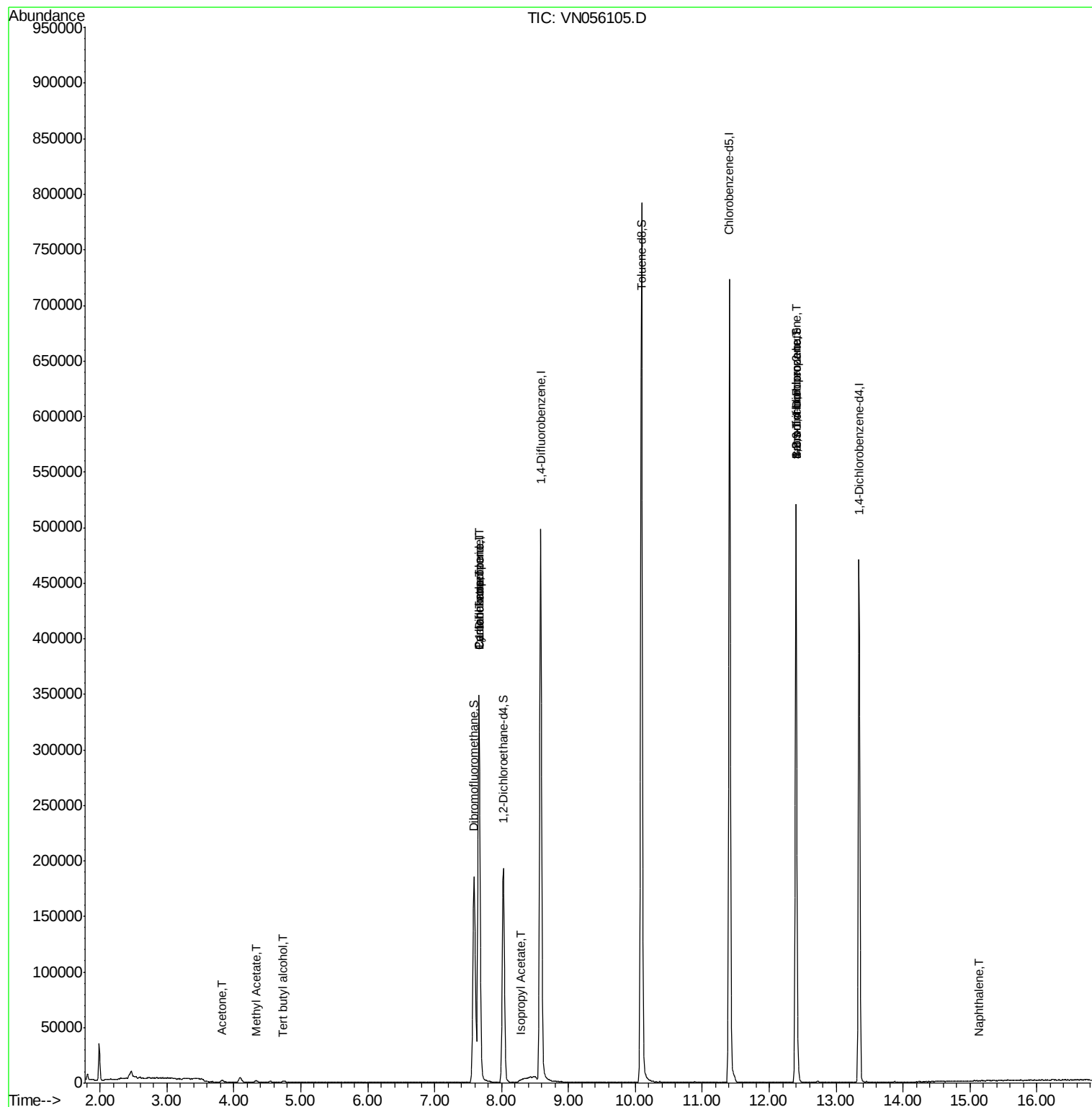
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.73  | 59   | 305      | 0.535     | ug/l # | 74     |
| 16) Acetone                    | 3.83  | 43   | 3376     | 2.156     | ug/l   | 91     |
| 18) Methyl Acetate             | 4.34  | 43   | 2707     | 0.306     | ug/l # | 84     |
| 31) Cyclohexane                | 7.66  | 56   | 4794     | 0.923     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 19528    | 4.539     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 27105    | 6.833     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.27  | 43   | 1522     | 0.245     | ug/l # | 53     |
| 71) Bromoform                  | 12.40 | 173  | 1473     | 3.260     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.25 | 105  | 31       | Below Cal | #      | 48     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 84440    | 32.182    | ug/l # | 100    |
| 79) 2-Chlorotoluene            | 12.59 | 91   | 65       | Below Cal | #      | 39     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 84440    | 107.172   | ug/l # | 15     |
| 95) Naphthalene                | 15.13 | 128  | 170      | 3.874     | ug/l # | 69     |

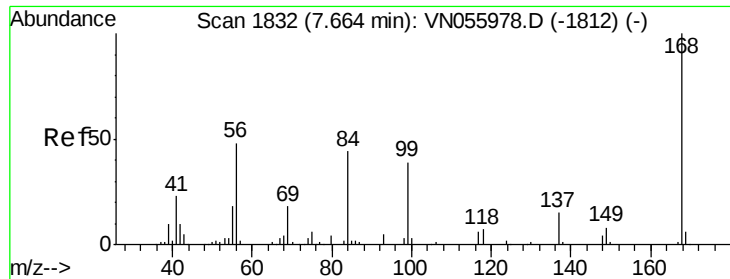
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN060819\  
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Quant Title : SW846 8260  
QLast Update : Tue Jun 04 11:02:09 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: VN056105.D

Acq: 7 Jun 2019 18:04

Instrument :

MSVOA\_N

ClientSampleId :

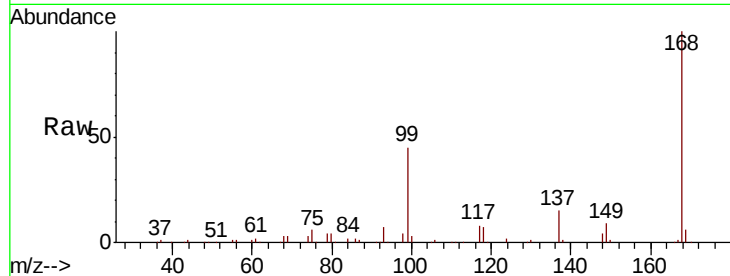
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 329702

Ion Ratio Lower Upper

168 100

99 44.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

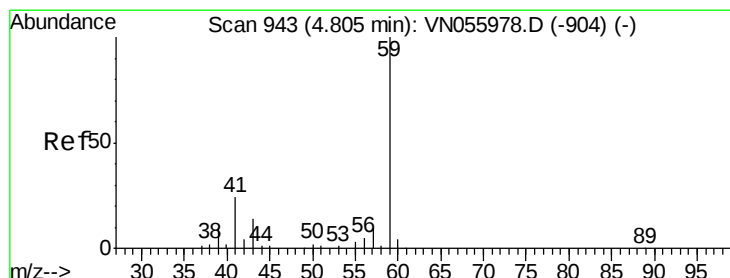
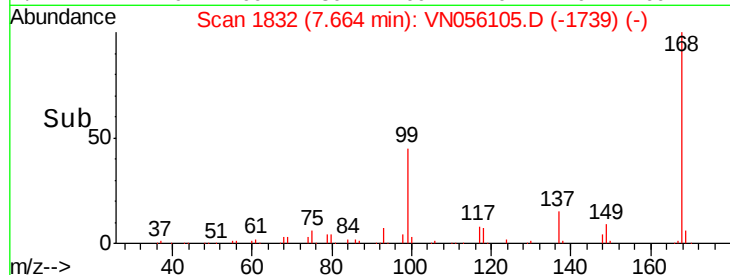
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.535 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.08 min

Lab File: VN056105.D

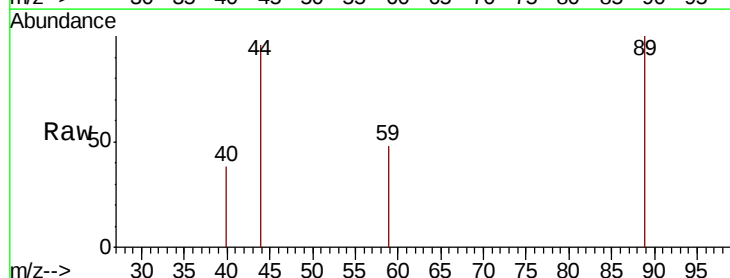
Acq: 7 Jun 2019 18:04

Tgt Ion: 59 Resp: 305

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055978.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN055978.D (-904) (-)

4.73

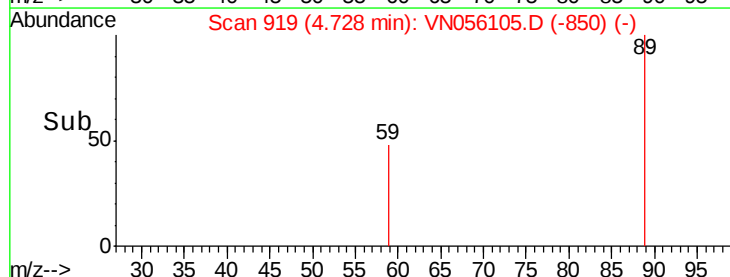
300

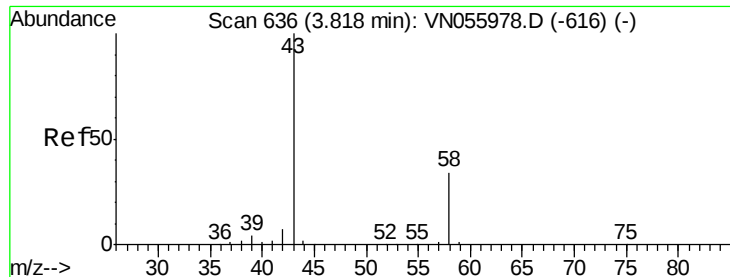
200

100

0

Time-->





#16

Acetone

Concen: 2.156 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

Instrument :

MSVOA\_N

ClientSampleId :

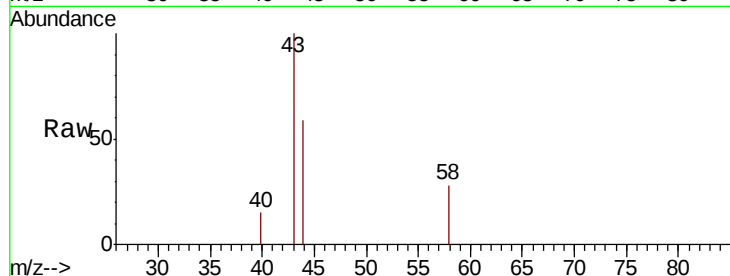
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 3376

Ion Ratio Lower Upper

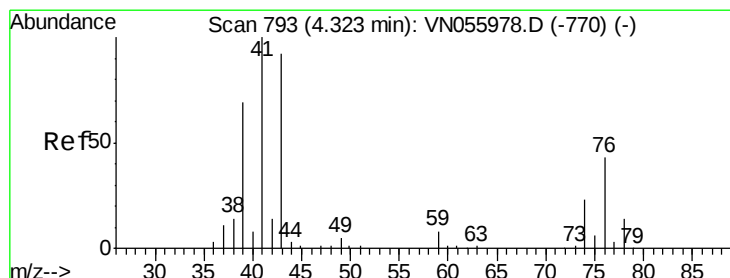
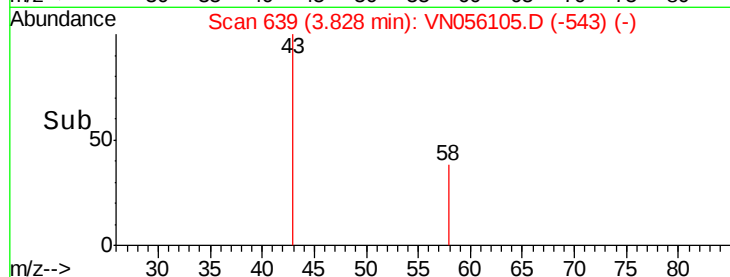
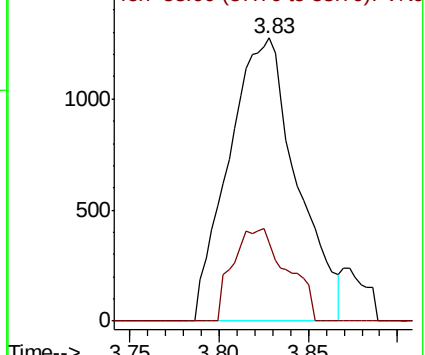
43 100

58 27.9 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.306 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056105.D

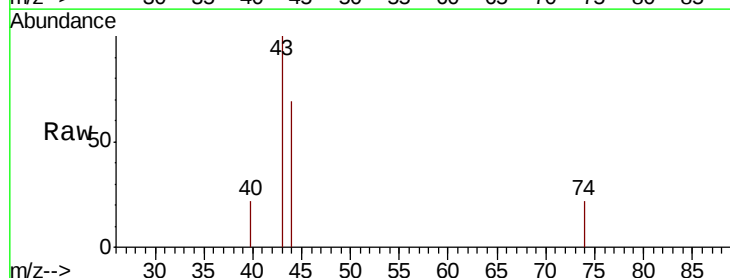
Acq: 7 Jun 2019 18:04

Tgt Ion: 43 Resp: 2707

Ion Ratio Lower Upper

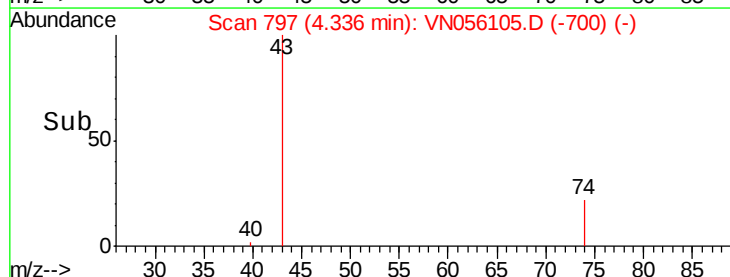
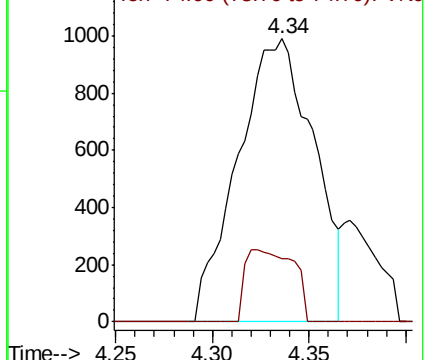
43 100

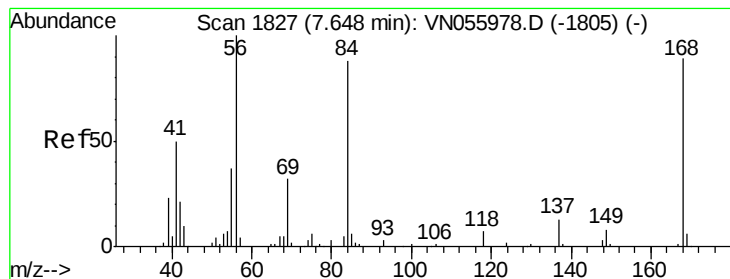
74 16.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: 0.923 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

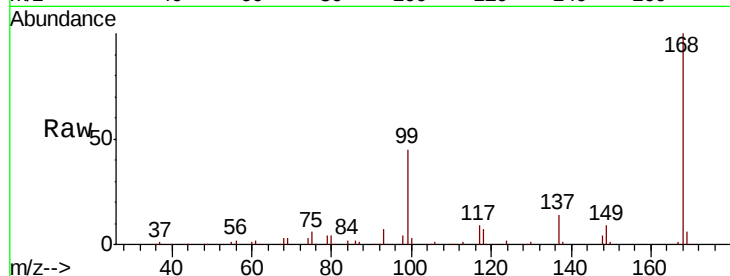
Tot Ion: 56 Resp: 4794

Ion Ratio Lower Upper

56 100

69 196.0 25.6 38.4#

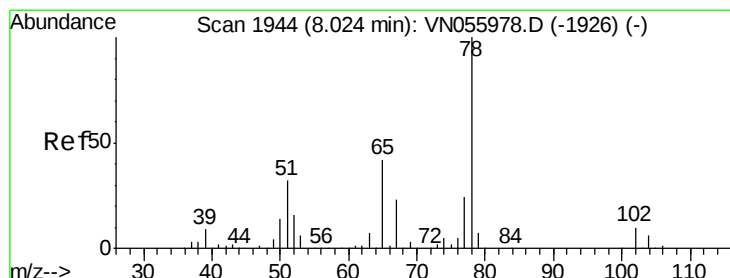
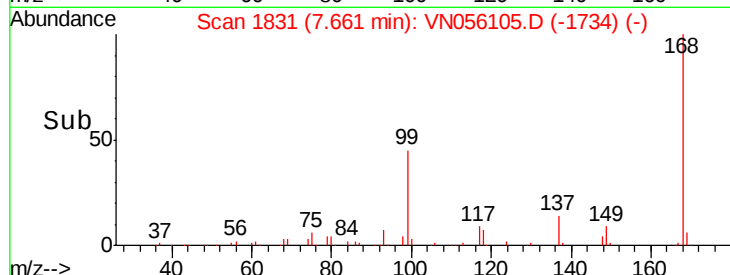
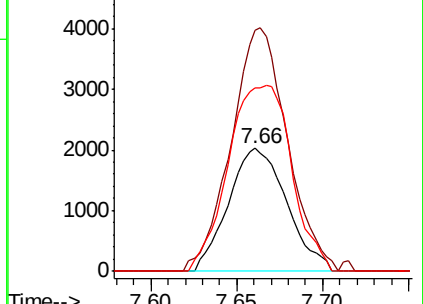
84 149.4 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 49.387 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056105.D

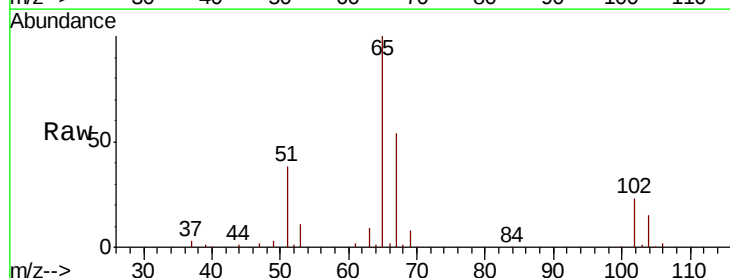
Acq: 7 Jun 2019 18:04

Tgt Ion: 65 Resp: 161675

Ion Ratio Lower Upper

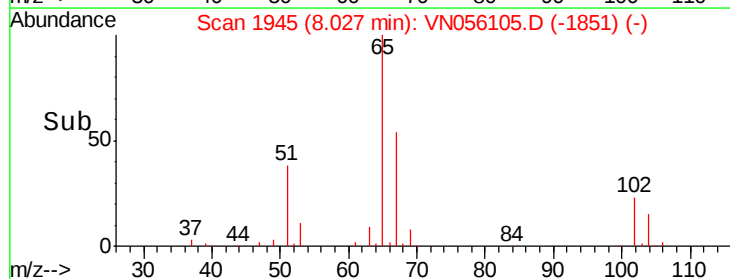
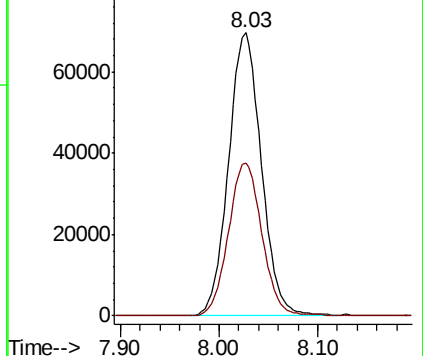
65 100

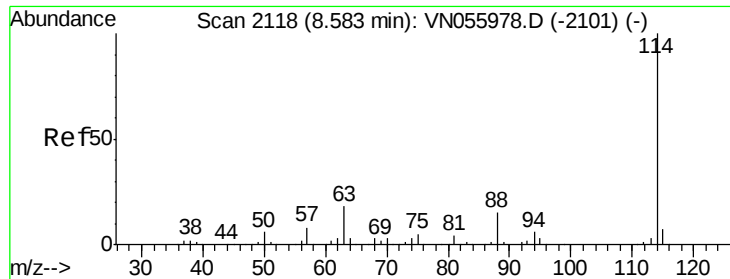
67 55.1 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

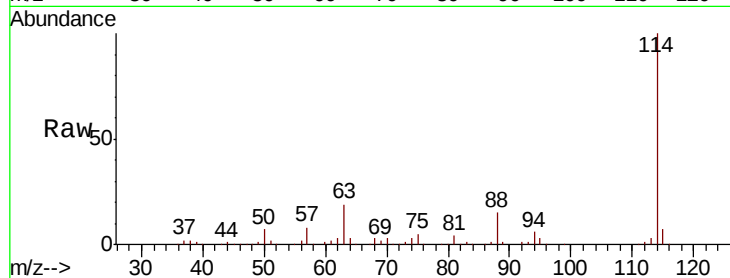




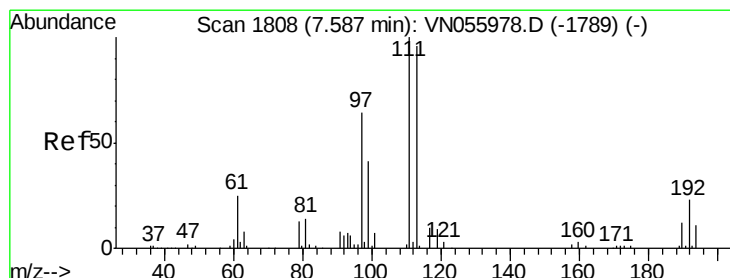
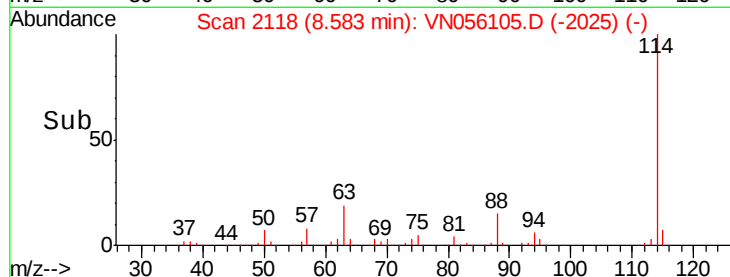
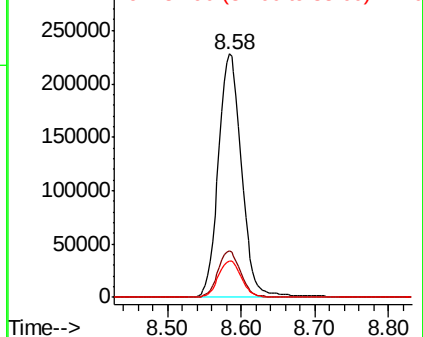
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.58 min Scan# 2118  
Delta R.T. 0.00 min  
Lab File: VN056105.D  
Acq: 7 Jun 2019 18:04

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

Tot Ion:114 Resp: 500400  
Ion Ratio Lower Upper  
114 100  
63 19.3 0.0 39.2  
88 15.1 0.0 31.0

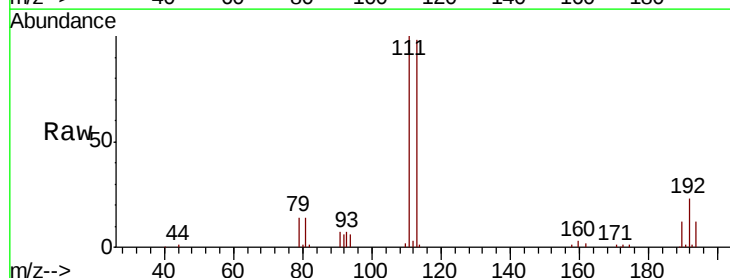


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

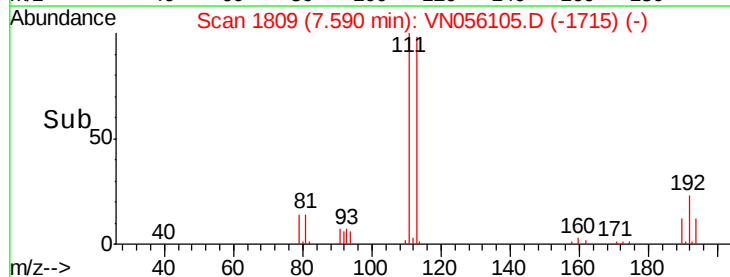
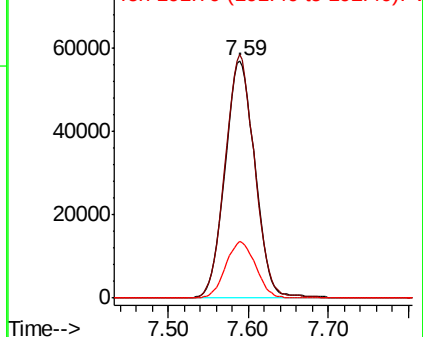


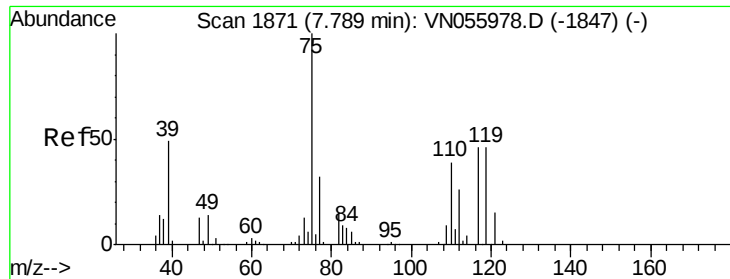
#35  
Dibromofluoromethane  
Concen: 47.441 ug/l  
RT: 7.59 min Scan# 1809  
Delta R.T. 0.00 min  
Lab File: VN056105.D  
Acq: 7 Jun 2019 18:04

Tgt Ion:113 Resp: 145651  
Ion Ratio Lower Upper  
113 100  
111 100.5 81.9 122.9  
192 23.6 19.5 29.3



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: 4.539 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

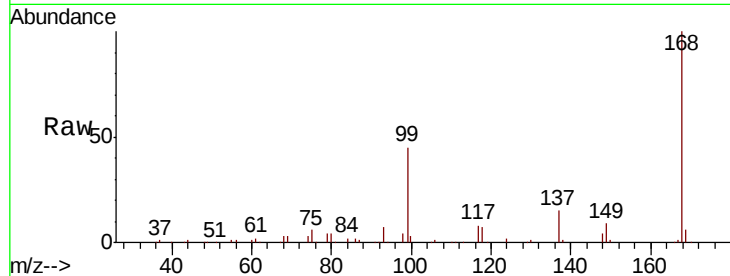
Tot Ion: 75 Resp: 19528

Ion Ratio Lower Upper

75 100

110 8.2 19.0 57.0#

77 0.0 25.1 37.7#

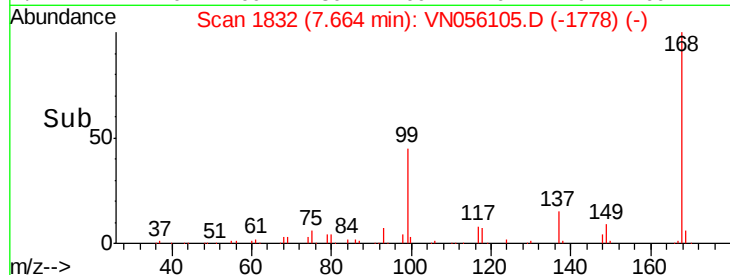


Abundance Ion 74.90 (74.60 to 75.60): VN056105.D (-1778) (-)

Ion 109.90 (109.60 to 110.60): VN056105.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN056105.D (-1778) (-)

Time-->



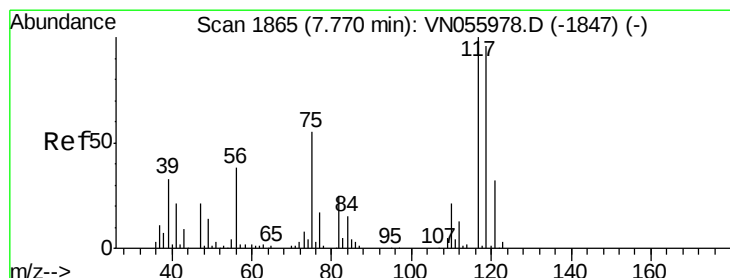
Abundance

Ion 74.90 (74.60 to 75.60): VN056105.D (-1778) (-)

Ion 109.90 (109.60 to 110.60): VN056105.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN056105.D (-1778) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.833 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

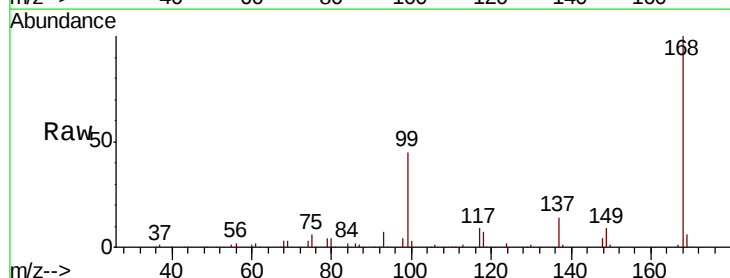
Tgt Ion: 117 Resp: 27105

Ion Ratio Lower Upper

117 100

119 5.2 79.0 118.6#

121 0.0 24.7 37.1#

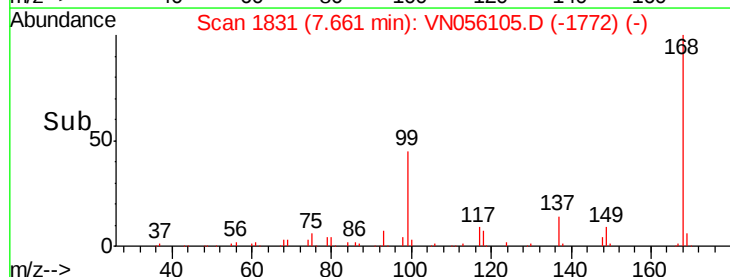


Abundance Ion 116.80 (116.50 to 117.50): VN056105.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN056105.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN056105.D (-1772) (-)

Time-->



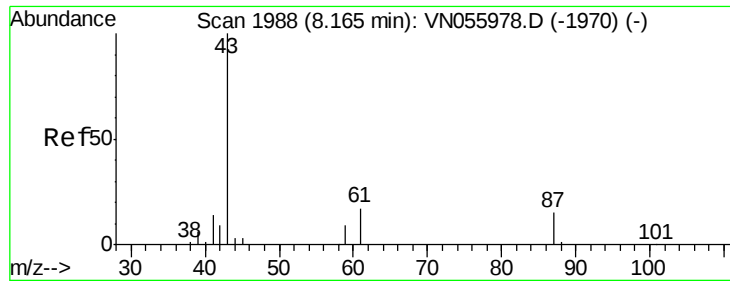
Abundance

Ion 116.80 (116.50 to 117.50): VN056105.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN056105.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN056105.D (-1772) (-)

Time-->



#43

Isopropyl Acetate

Concen: 0.245 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

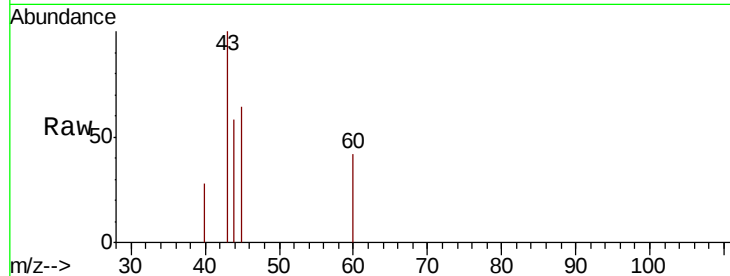
Tot Ion: 43 Resp: 1522

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

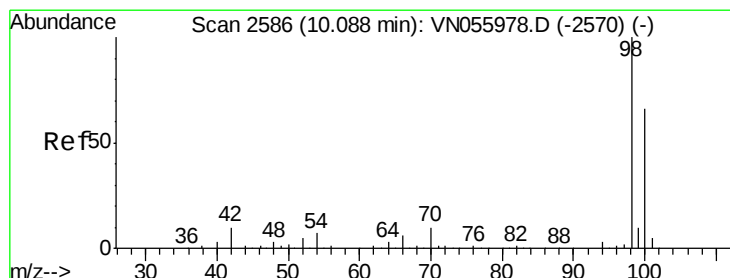
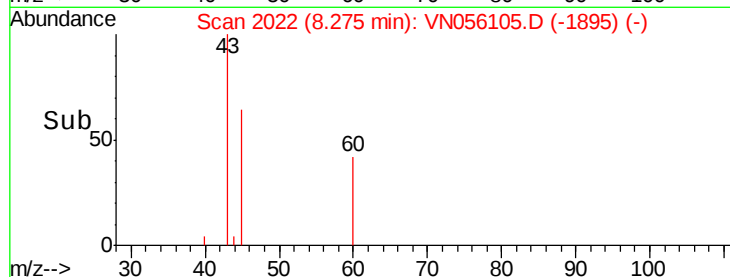
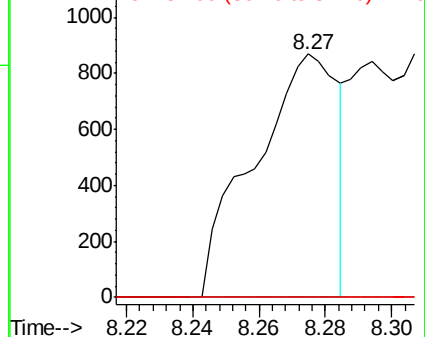
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN055978.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055978.D (-1970) (-)



#50

Toluene-d8

Concen: 50.392 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056105.D

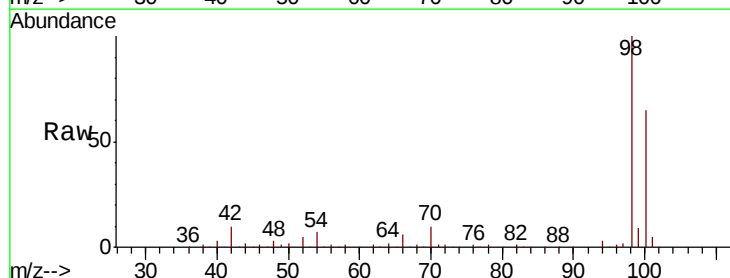
Acq: 7 Jun 2019 18:04

Tgt Ion: 98 Resp: 595326

Ion Ratio Lower Upper

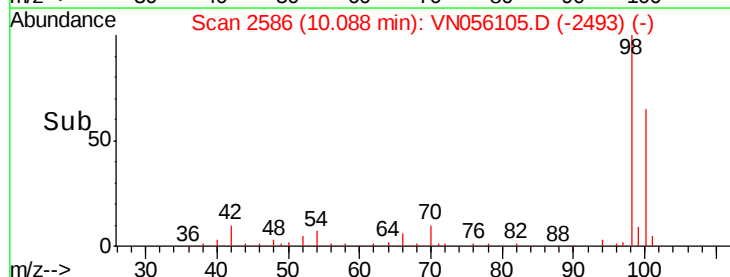
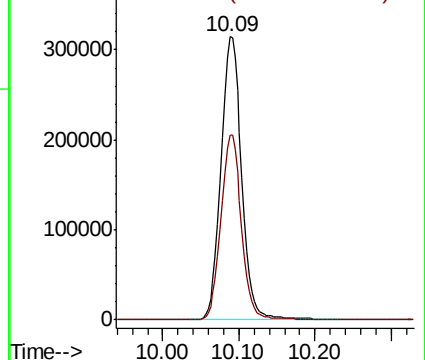
98 100

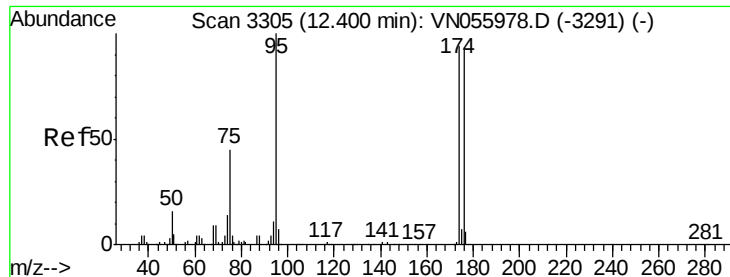
100 64.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)





#62

4-Bromofluorobenzene

Concen: 45.943 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

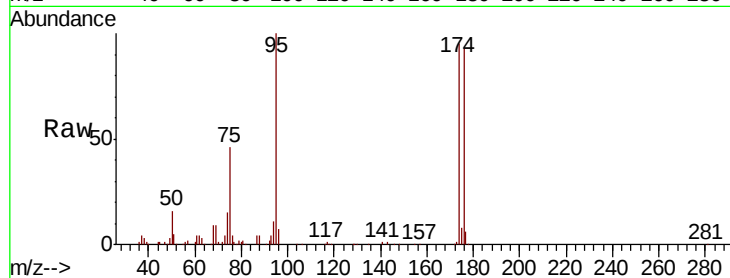
Tot Ion: 95 Resp: 184579

Ion Ratio Lower Upper

95 100

174 95.5 0.0 191.0

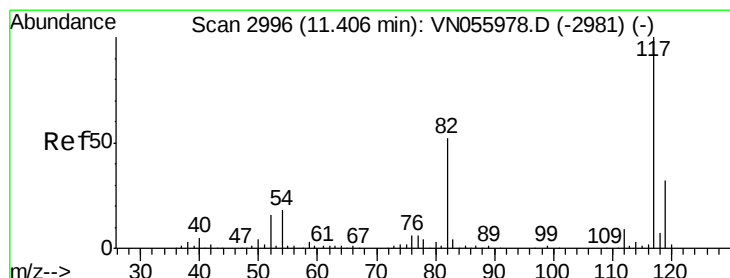
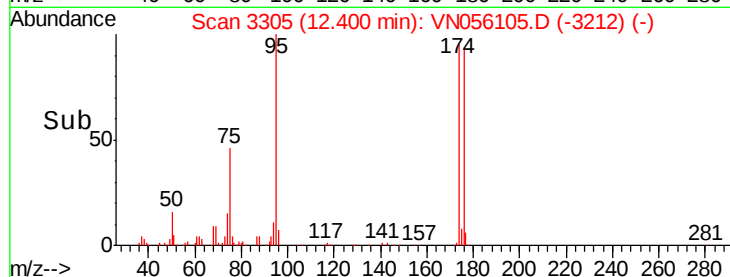
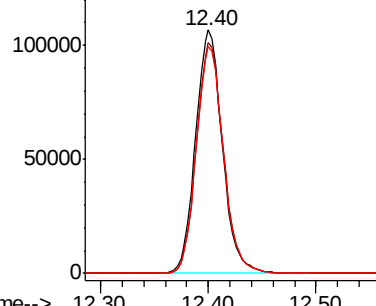
176 93.9 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

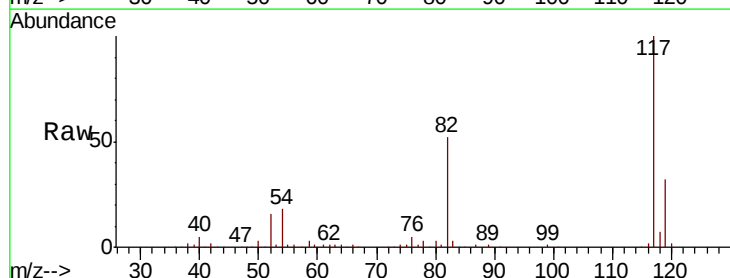
Tgt Ion: 117 Resp: 465657

Ion Ratio Lower Upper

117 100

82 51.7 41.8 62.8

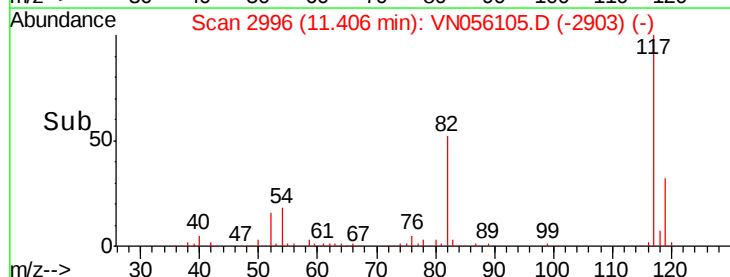
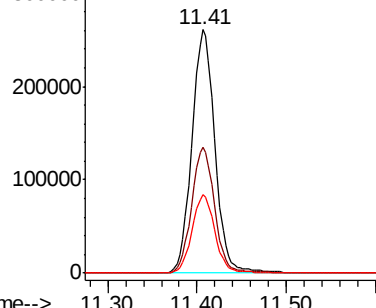
119 32.0 25.4 38.0

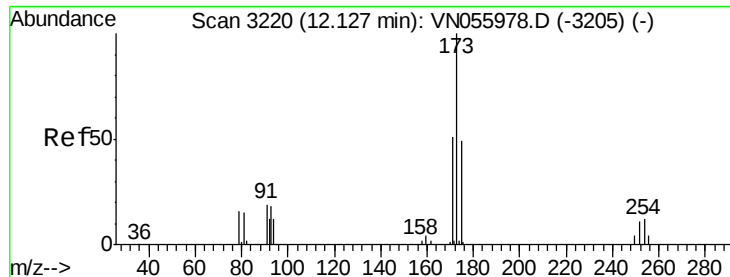


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)





#71

Bromoform

Concen: 3.260 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

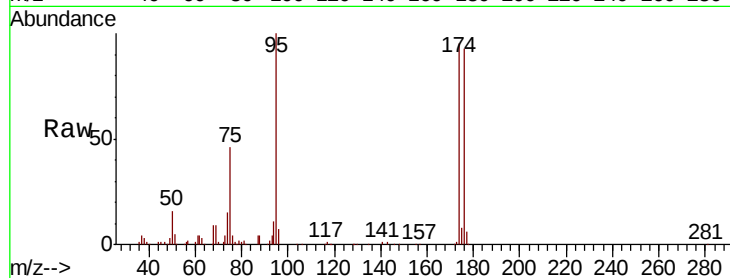
Tot Ion:173 Resp: 1473

Ion Ratio Lower Upper

173 100

175 800.4 24.3 72.8#

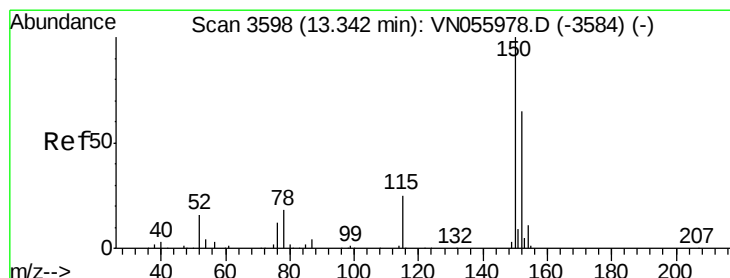
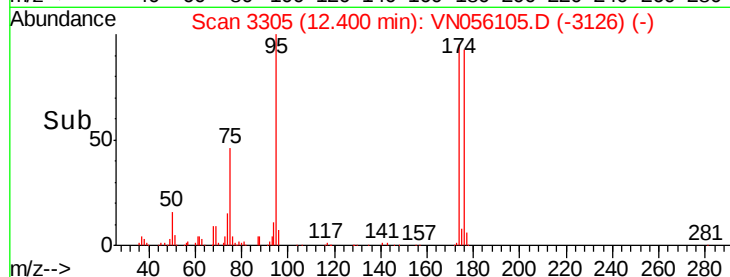
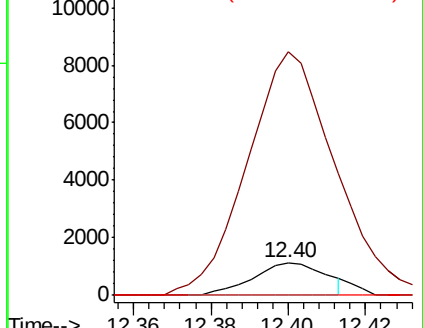
254 0.0 0.0 0.0



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: VN056105.D

Acq: 7 Jun 2019 18:04

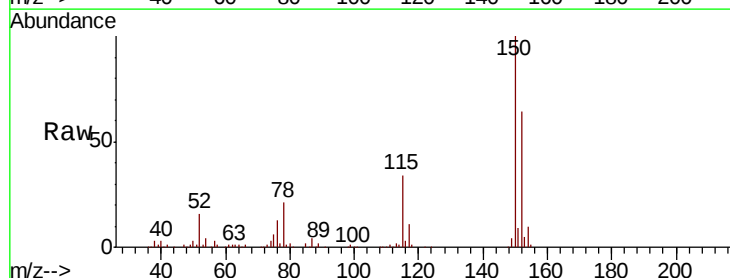
Tgt Ion:152 Resp: 142596

Ion Ratio Lower Upper

152 100

115 53.4 27.0 81.0

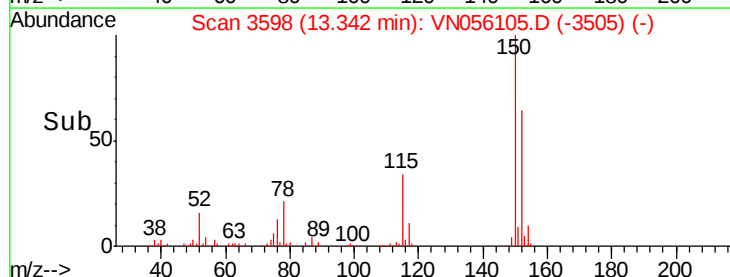
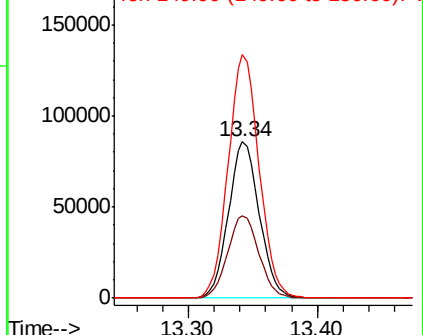
150 156.1 0.0 343.2

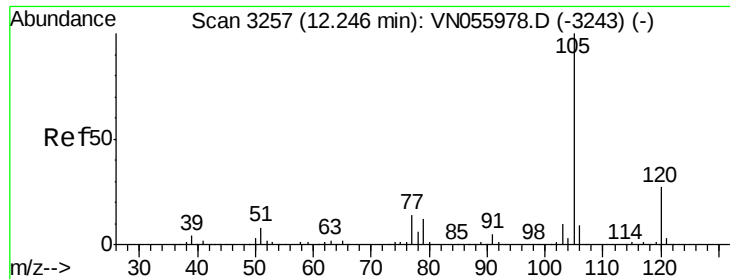


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

Instrument :

MSVOA\_N

ClientSampleId :

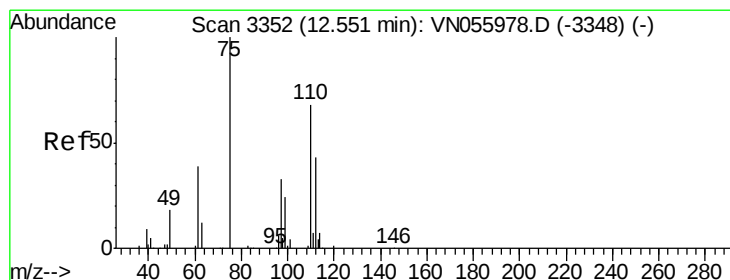
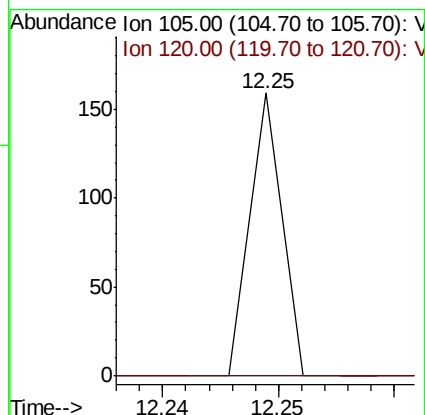
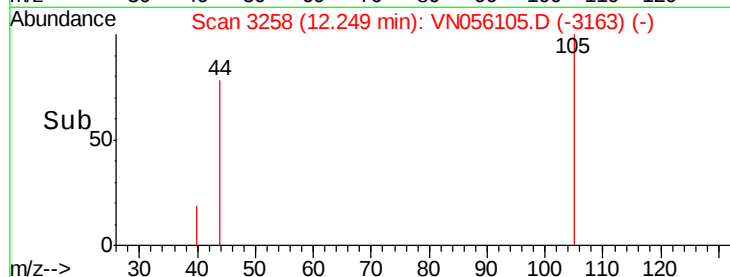
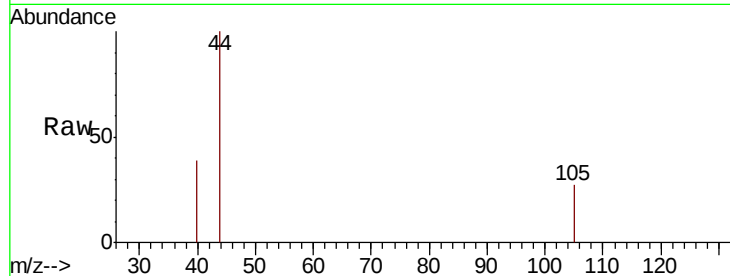
STORAGE-BLANK-SOIL-REF-6

Tot Ion:105 Resp: 31

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



#76

1,2,3-Trichloropropane

Concen: 32.182 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056105.D

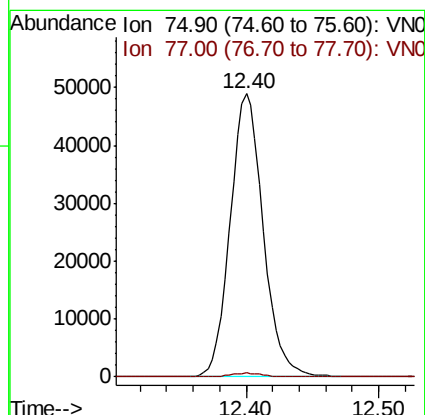
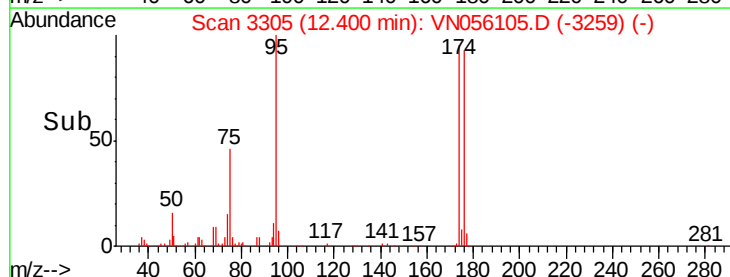
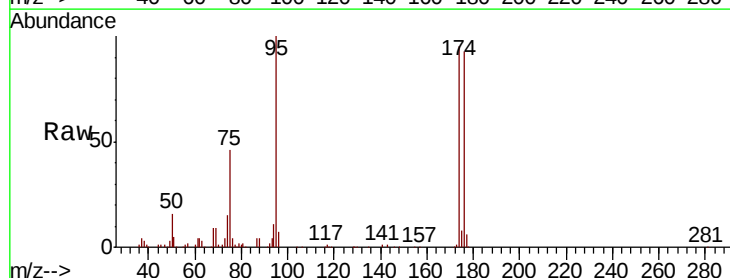
Acq: 7 Jun 2019 18:04

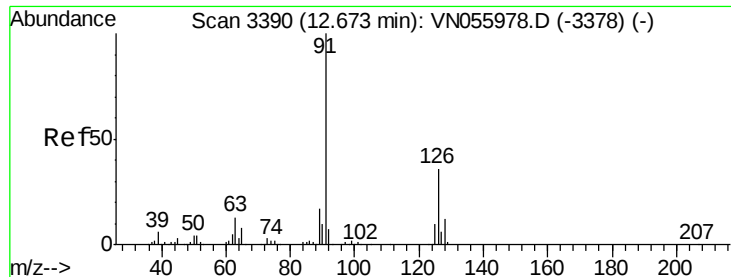
Tgt Ion: 75 Resp: 84440

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

Instrument :

MSVOA\_N

ClientSampleId :

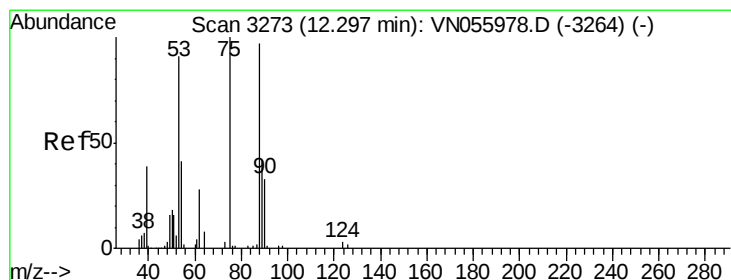
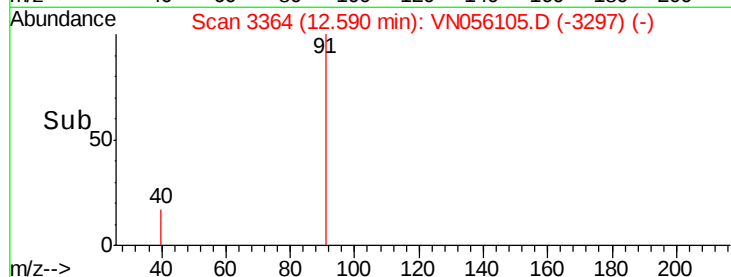
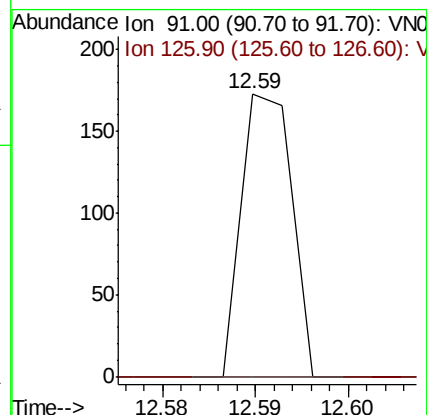
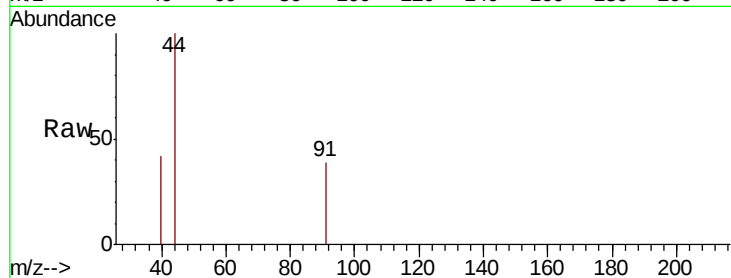
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 91 Resp: 65

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 107.172 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056105.D

Acq: 7 Jun 2019 18:04

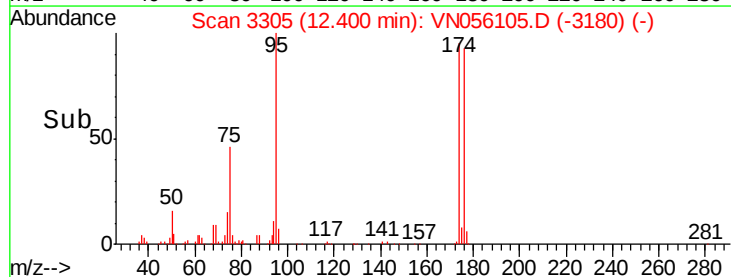
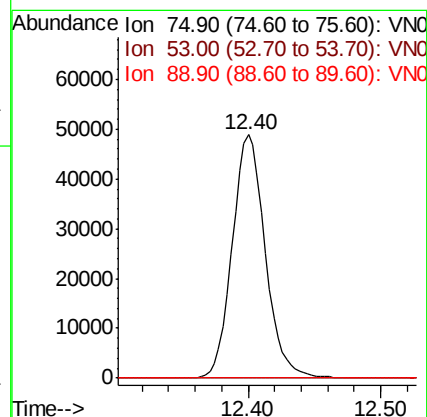
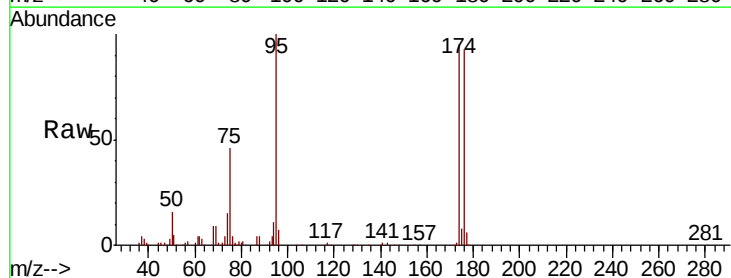
Tgt Ion: 75 Resp: 84440

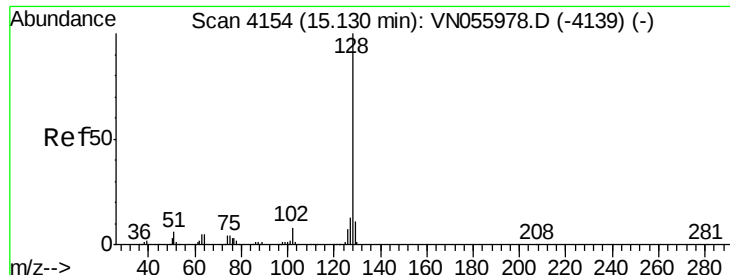
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#





#95  
Naphthalene  
Concen: 3.874 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN056105.D  
Acq: 7 Jun 2019 18:04

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

Tot Ion:128 Resp: 170  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.7 13.1#

