

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041419\  
 Data File : VN055026.D  
 Acq On : 13 Apr 2019 13:42  
 Operator : JC/SP  
 Sample : K2383-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-4

Quant Time: Apr 14 03:24:02 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  | 543504   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 854332   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 718243   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 236706   | 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   | 337065   | 49.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.84%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 263226   | 48.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.66%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1012699  | 50.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.26% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 306629   | 45.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.02%  |          |

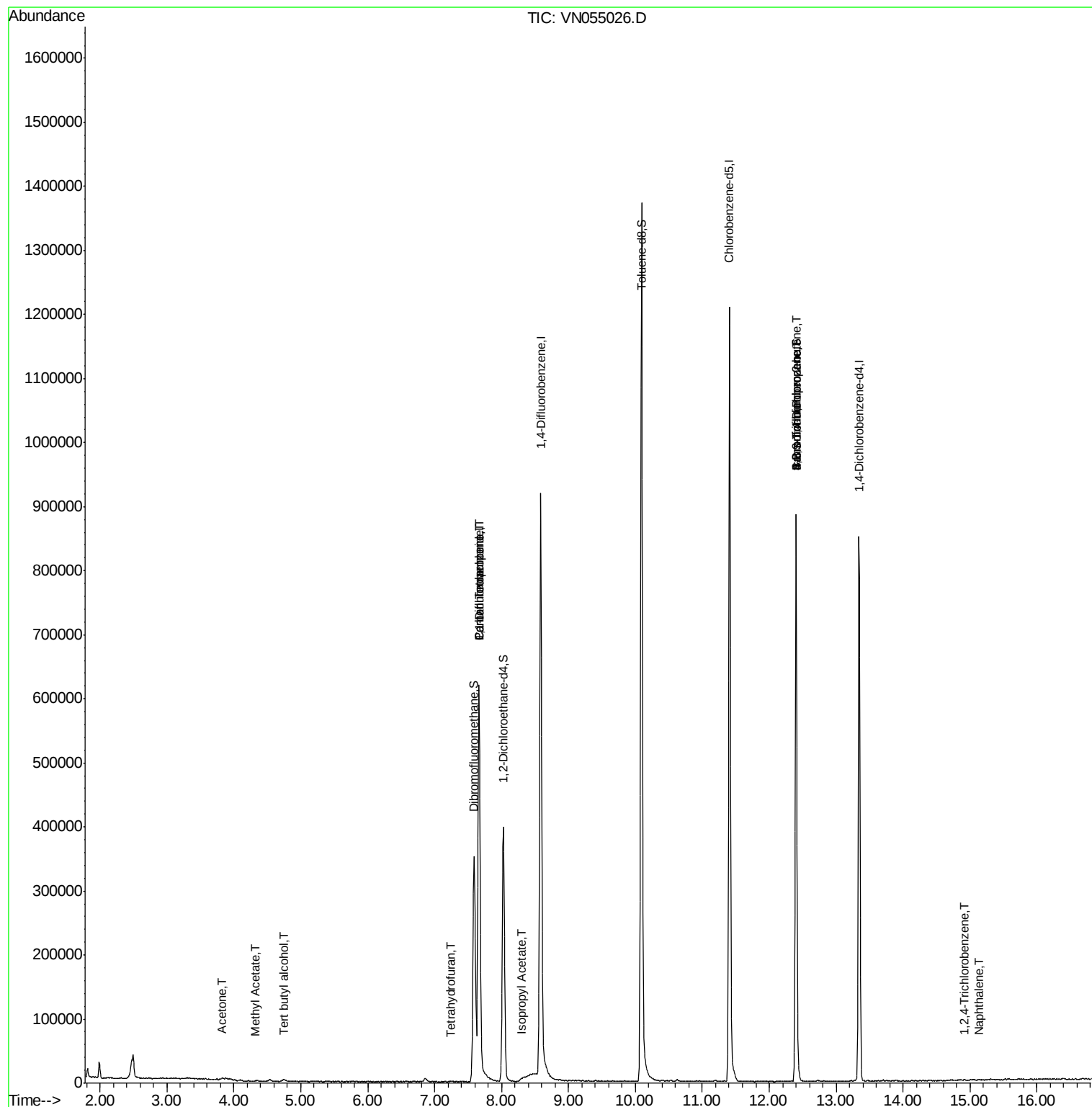
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.73  | 59   | 2666     | 6.352     | ug/l # | 72     |
| 16) Acetone                    | 3.82  | 43   | 1262     | 0.674     | ug/l # | 49     |
| 18) Methyl Acetate             | 4.32  | 43   | 1393     | 0.240     | ug/l # | 80     |
| 20) Methylene Chloride         | 4.54  | 84   | 1133     | Below Cal | #      | 40     |
| 29) Tetrahydrofuran            | 7.23  | 42   | 381      | 0.201     | ug/l # | 39     |
| 31) Cyclohexane                | 7.67  | 56   | 11245    | Below Cal | #      | 8      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 39604    | 5.016     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 50128    | 6.745     | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.28  | 43   | 2627     | 0.259     | ug/l # | 64     |
| 71) Bromoform                  | 12.40 | 173  | 2421     | 3.241     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 155123   | 35.621    | ug/l # | 100    |
| 77) Bromobenzene               | 12.39 | 156  | 99       | Below Cal | #      | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 155123   | 147.026   | ug/l # | 2      |
| 93) 1,2,4-Trichlorobenzene     | 14.90 | 180  | 162      | 3.570     | ug/l # | 46     |
| 95) Naphthalene                | 15.14 | 128  | 537      | 4.729     | ug/l # | 69     |

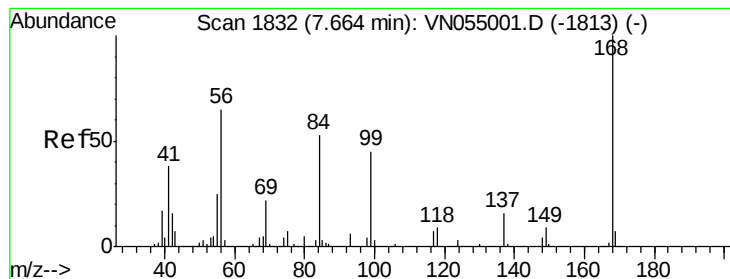
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN041419\  
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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: VN055026.D

Acq: 13 Apr 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

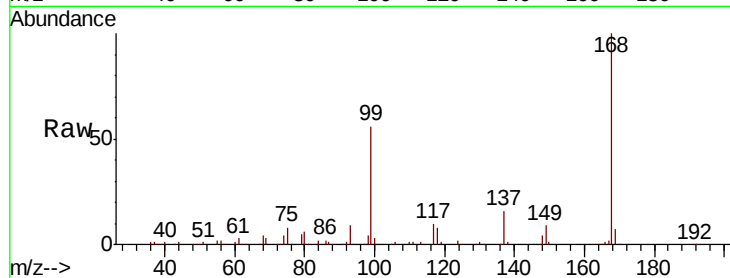
STORAGE-BLANK-WATER-REF-4

Tot Ion:168 Resp: 543504

Ion Ratio Lower Upper

168 100

99 55.9 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055001.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055001.D (-1813) (-)

7.66

250000

200000

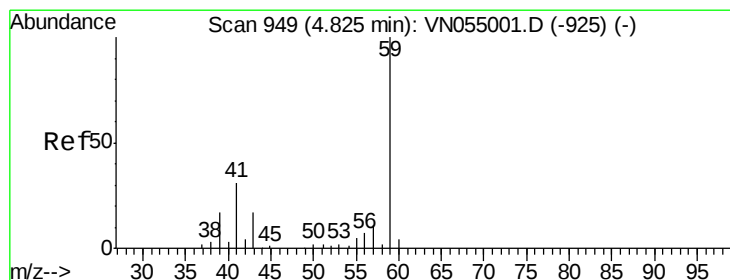
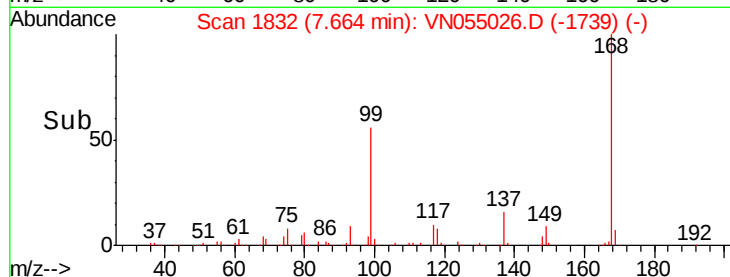
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 6.352 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.09 min

Lab File: VN055026.D

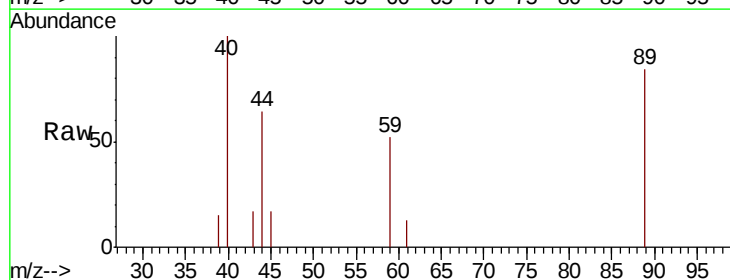
Acq: 13 Apr 2019 13:42

Tgt Ion: 59 Resp: 2666

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN055001.D (-925) (-)

Ion 57.00 (56.70 to 57.70): VN055001.D (-925) (-)

4.73

800

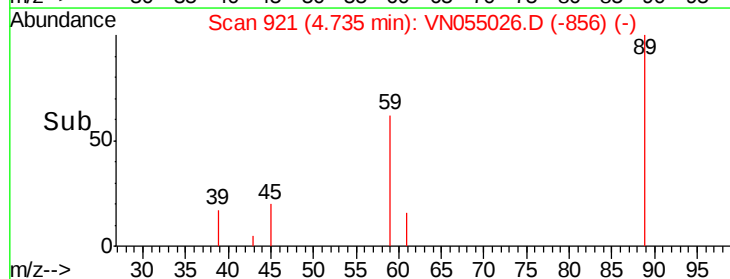
600

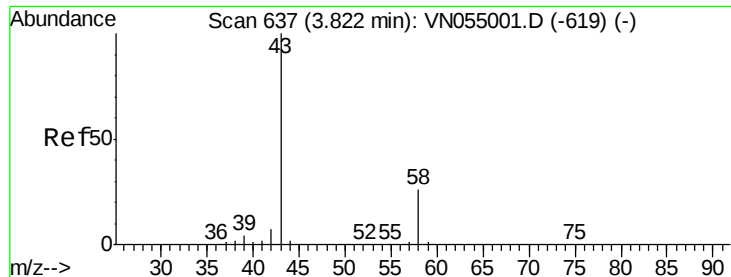
400

200

0

Time--> 4.65 4.70 4.75 4.80





#16

Acetone

Concen: 0.674 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

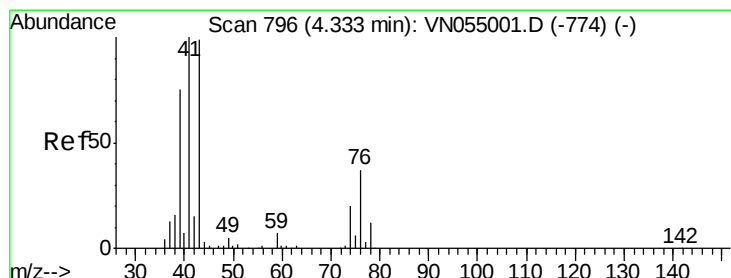
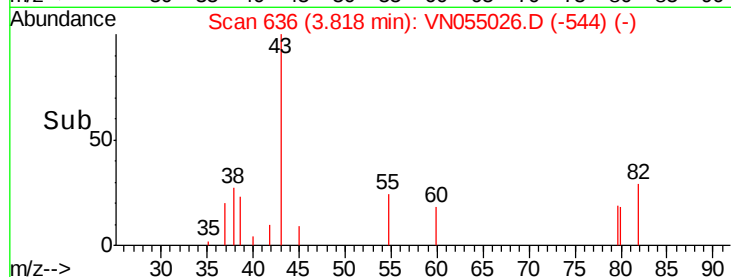
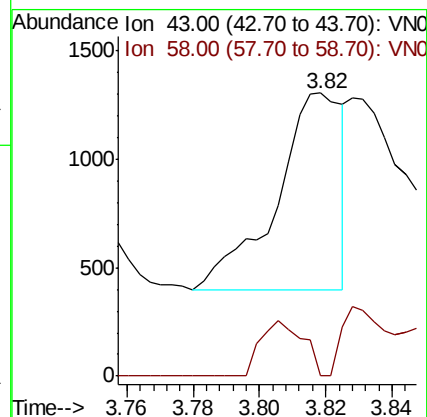
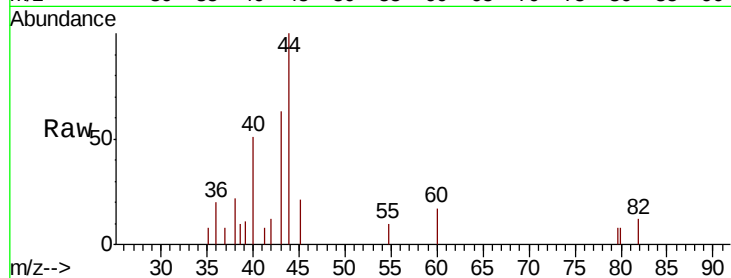
STORAGE-BLANK-WATER-REF-4

Tot Ion: 43 Resp: 1262

Ion Ratio Lower Upper

43 100

58 0.0 20.9 31.3#



#18

Methyl Acetate

Concen: 0.240 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.01 min

Lab File: VN055026.D

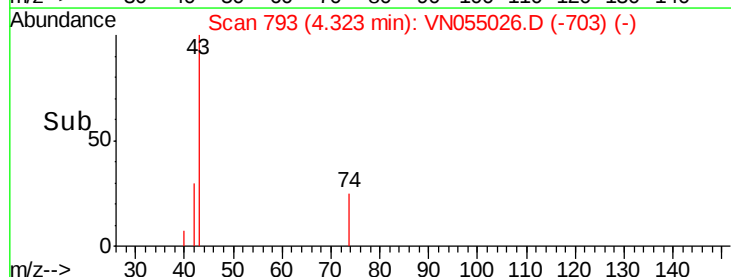
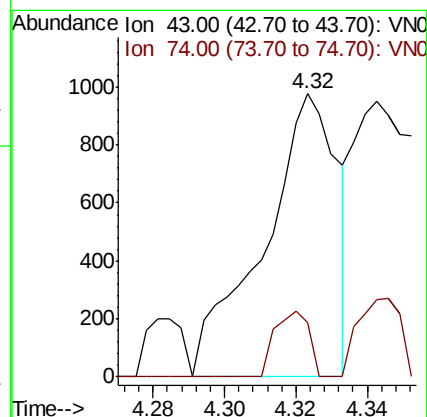
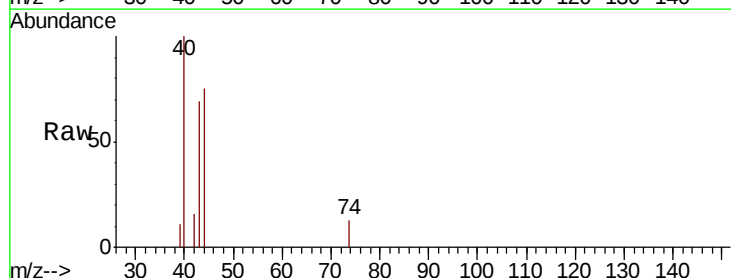
Acq: 13 Apr 2019 13:42

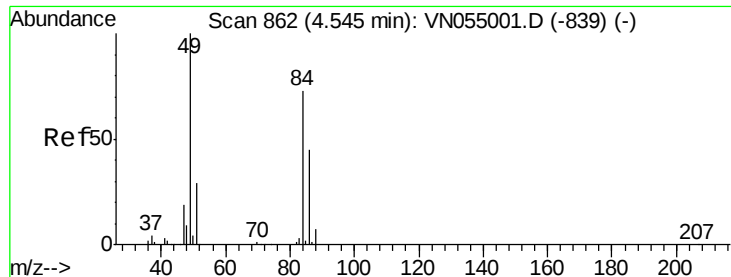
Tgt Ion: 43 Resp: 1393

Ion Ratio Lower Upper

43 100

74 10.8 16.1 24.1#





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.54 min Scan# 861

Delta R.T. -0.00 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

Tot Ion: 84 Resp: 1133

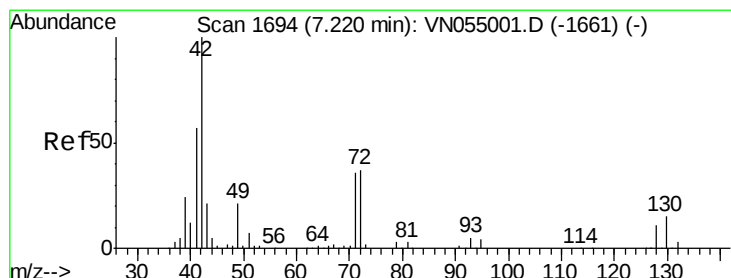
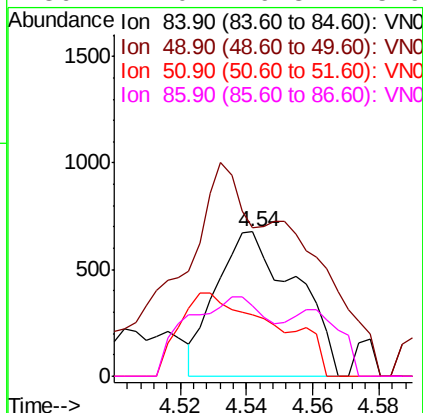
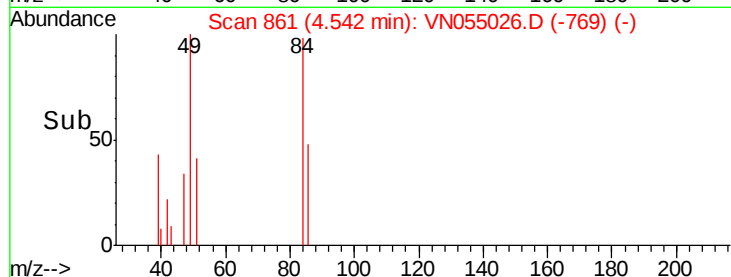
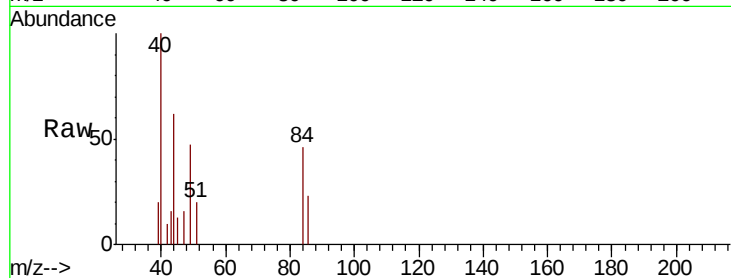
Ion Ratio Lower Upper

84 100

49 44.1 109.4 164.2#

51 42.5 32.2 48.4

86 17.0 49.3 73.9#



#29

Tetrahydrofuran

Concen: 0.201 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

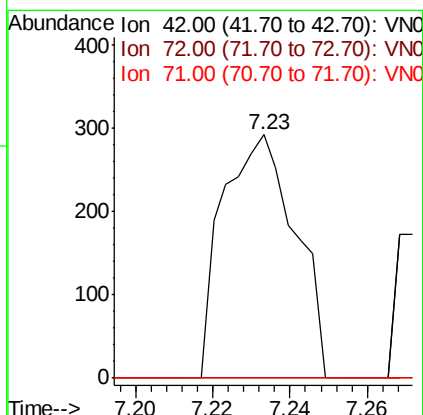
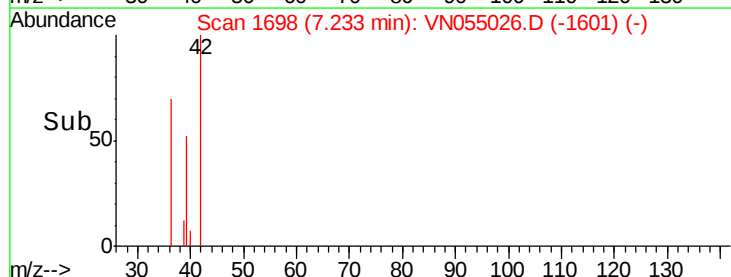
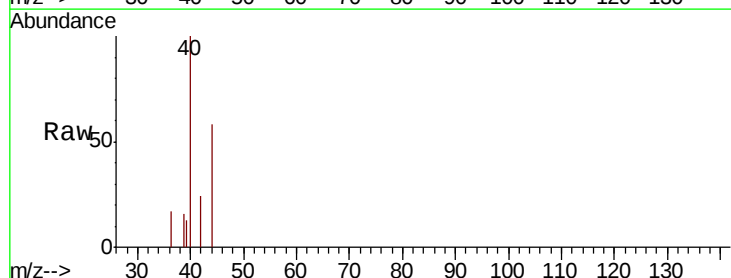
Tgt Ion: 42 Resp: 381

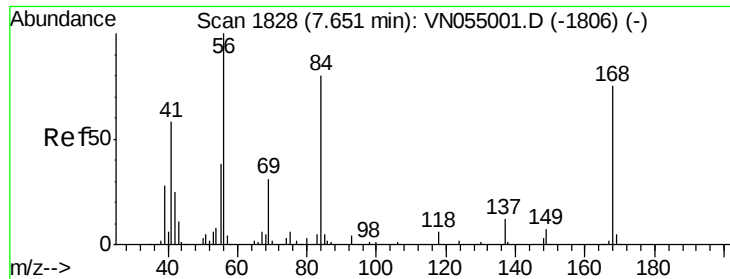
Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.0#

71 0.0 27.8 41.6#

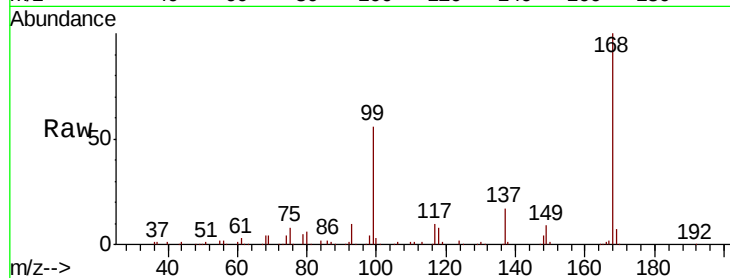




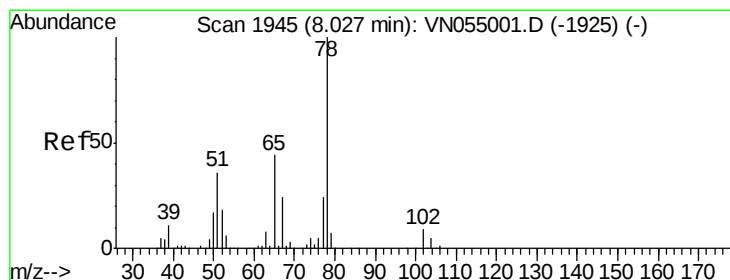
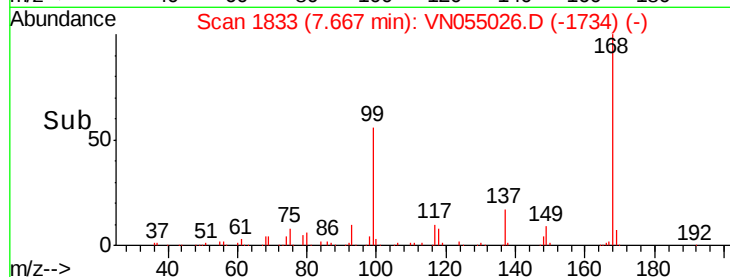
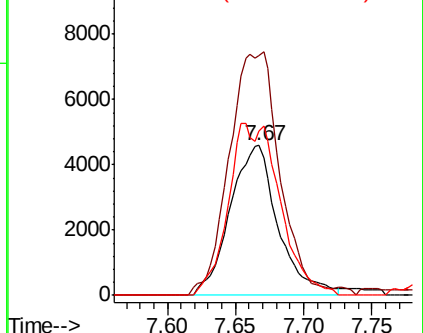
#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.67 min Scan# 1833  
Delta R.T. 0.02 min  
Lab File: VN055026.D  
Acq: 13 Apr 2019 13:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-4

Tot Ion: 56 Resp: 11245  
Ion Ratio Lower Upper  
56 100  
69 159.8 24.5 36.7#  
84 109.5 62.9 94.3#

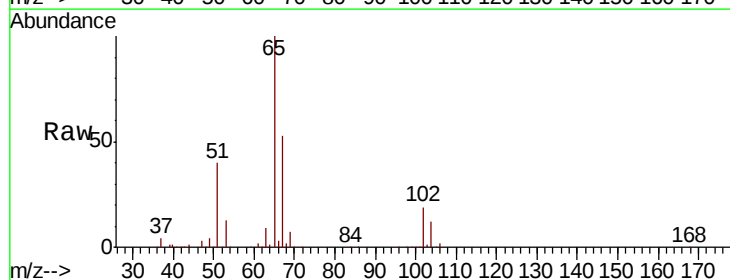


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

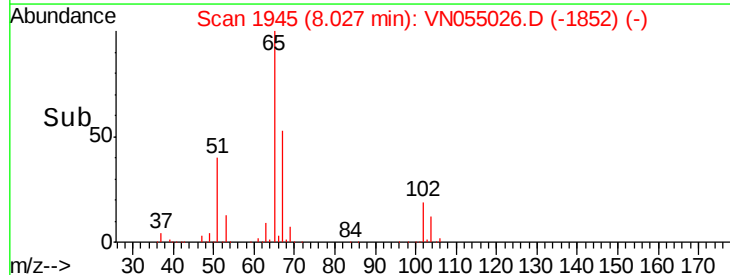
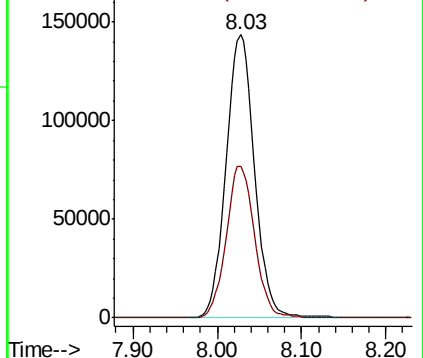


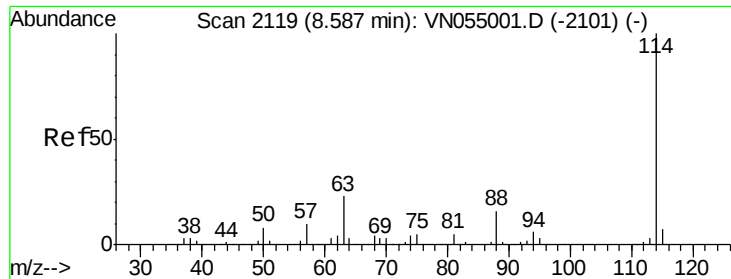
#33  
1,2-Dichloroethane-d4  
Concen: 49.418 ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN055026.D  
Acq: 13 Apr 2019 13:42

Tgt Ion: 65 Resp: 337065  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 106.4



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: VN055026.D

Acq: 13 Apr 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

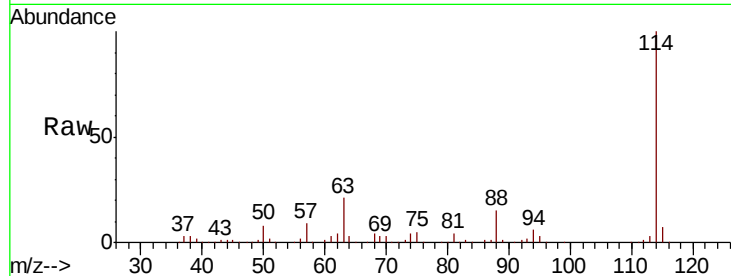
Tot Ion:114 Resp: 854332

Ion Ratio Lower Upper

114 100

63 21.0 0.0 45.2

88 15.1 0.0 31.8



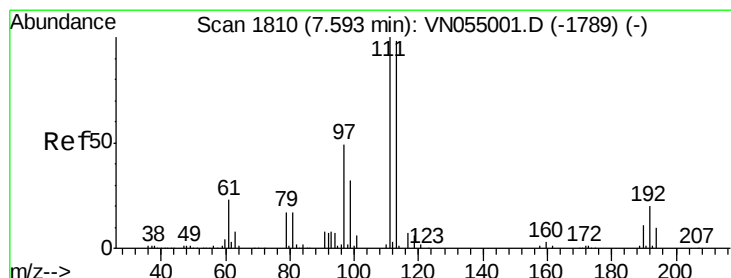
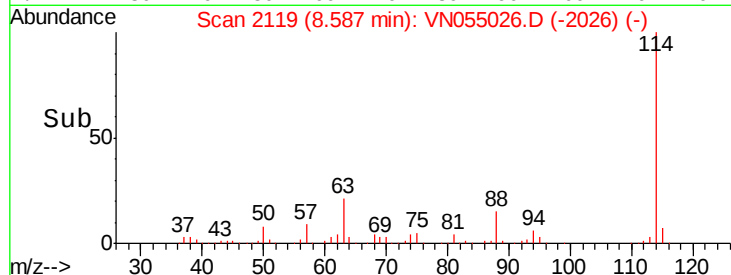
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN

8.59

Time-->



#35

Dibromofluoromethane

Concen: 48.333 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

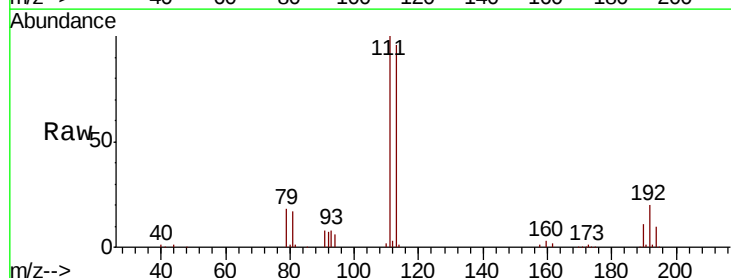
Tgt Ion:113 Resp: 263226

Ion Ratio Lower Upper

113 100

111 104.9 82.1 123.1

192 21.4 16.5 24.7



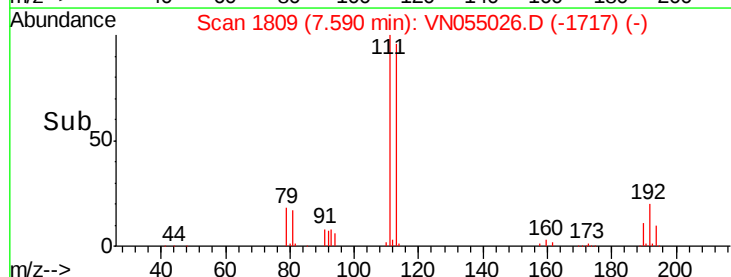
Abundance Ion 112.80 (112.50 to 113.50): V

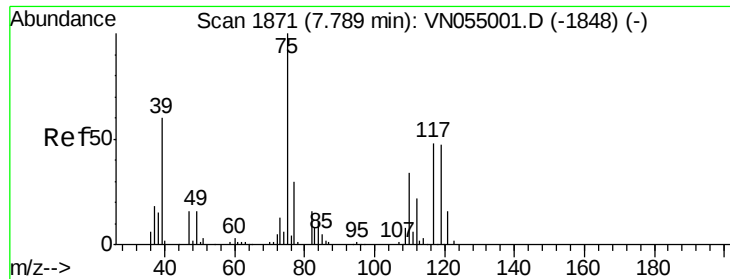
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

7.59

Time-->

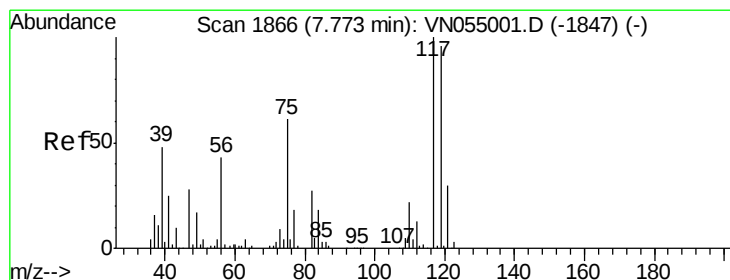
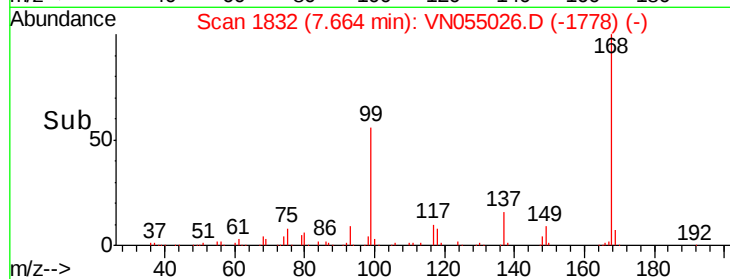
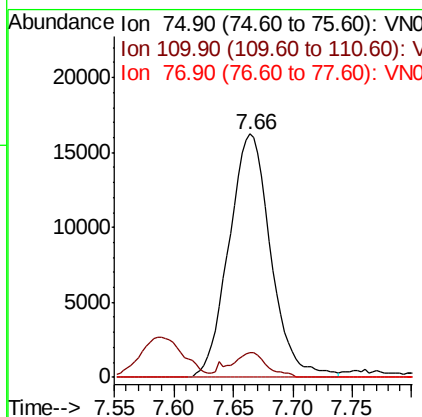
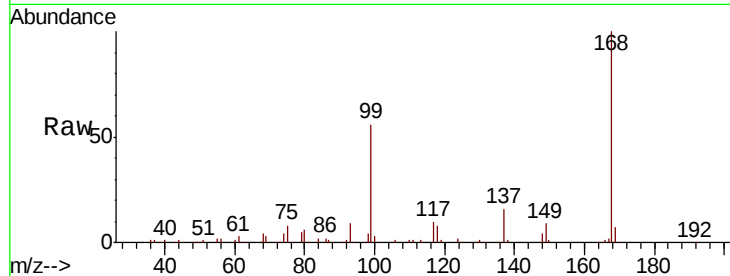




#36  
 1,1-Dichloropropene  
 Concen: 5.016 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN055026.D  
 Acq: 13 Apr 2019 13:42

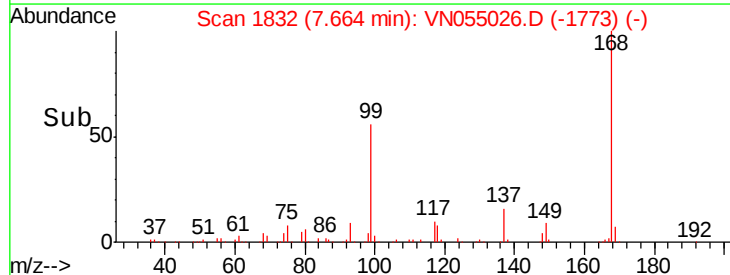
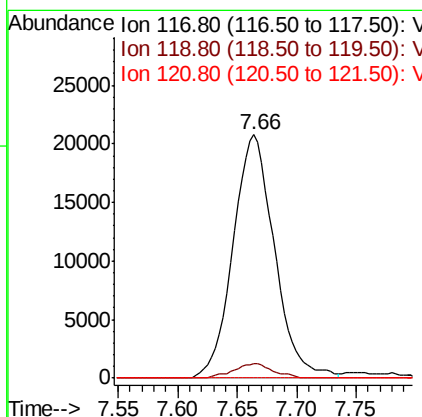
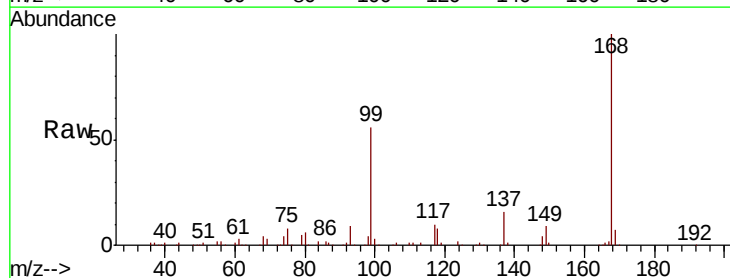
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 STORAGE-BLANK-WATER-REF-4

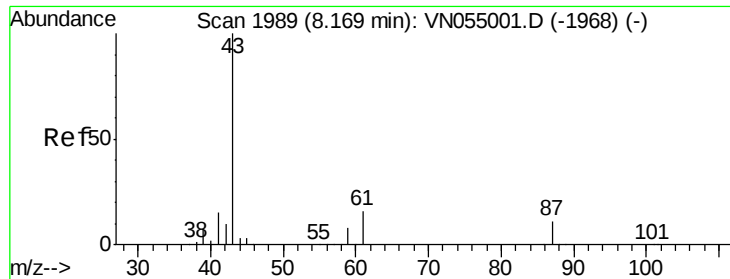
Tot Ion: 75 Resp: 39604  
 Ion Ratio Lower Upper  
 75 100  
 110 7.5 17.5 52.5#  
 77 0.0 24.9 37.3#



#38  
 Carbon Tetrachloride  
 Concen: 6.745 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.11 min  
 Lab File: VN055026.D  
 Acq: 13 Apr 2019 13:42

Tgt Ion: 117 Resp: 50128  
 Ion Ratio Lower Upper  
 117 100  
 119 5.8 76.3 114.5#  
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 0.259 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.12 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

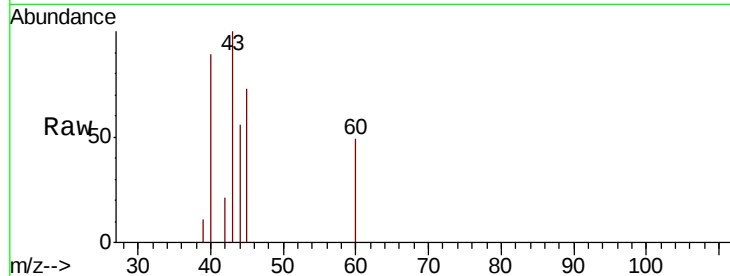
Tot Ion: 43 Resp: 2627

Ion Ratio Lower Upper

43 100

61 0.0 14.3 21.5#

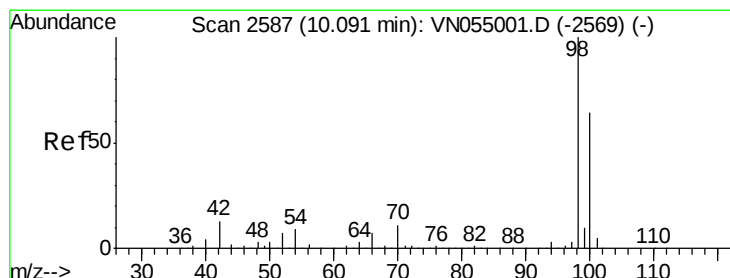
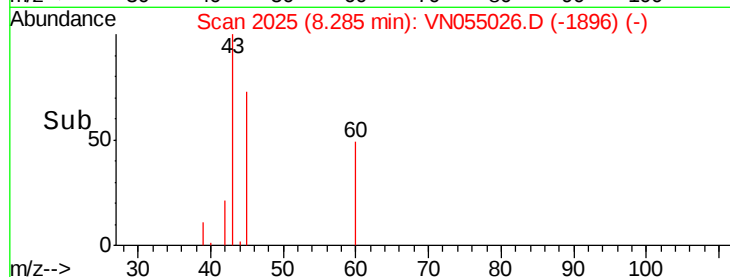
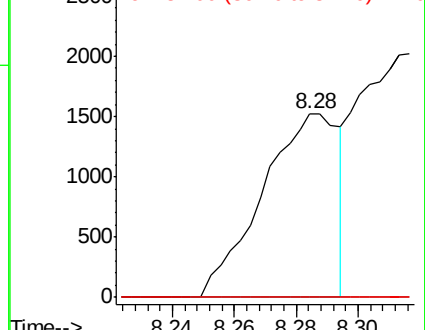
87 0.0 8.6 13.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 50.627 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055026.D

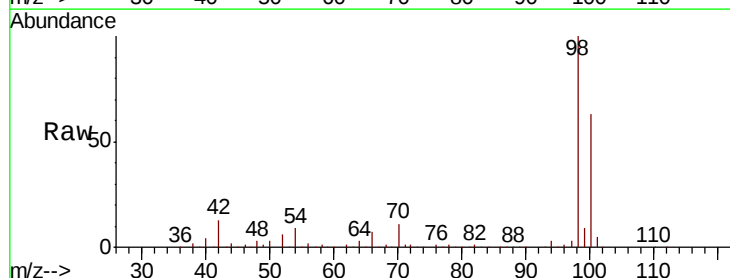
Acq: 13 Apr 2019 13:42

Tgt Ion: 98 Resp: 1012699

Ion Ratio Lower Upper

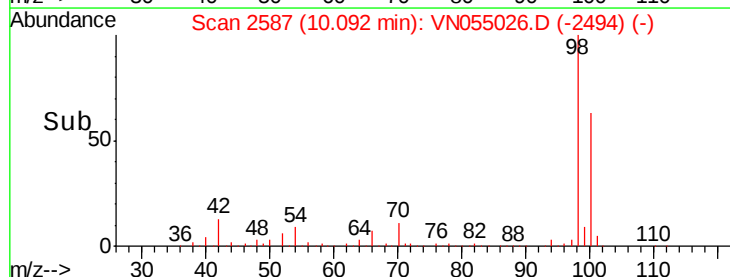
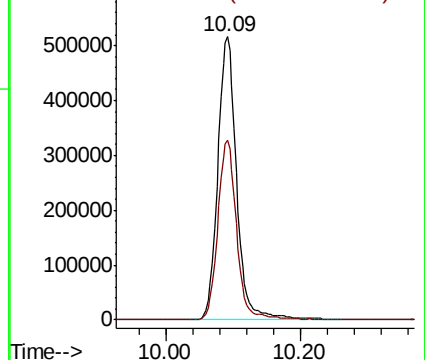
98 100

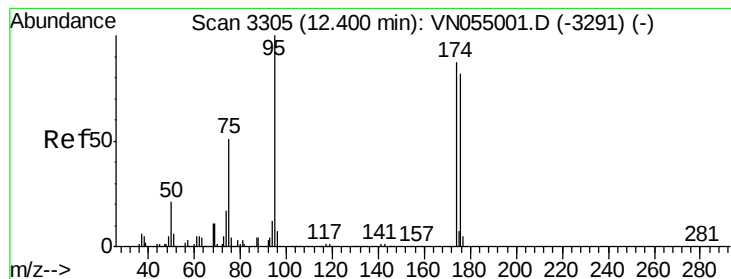
100 63.2 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.508 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

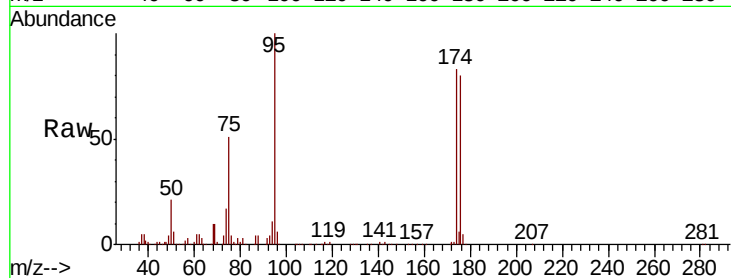
Tot Ion: 95 Resp: 306629

Ion Ratio Lower Upper

95 100

174 84.9 0.0 174.4

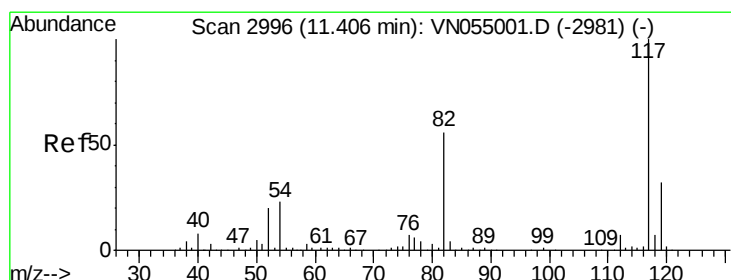
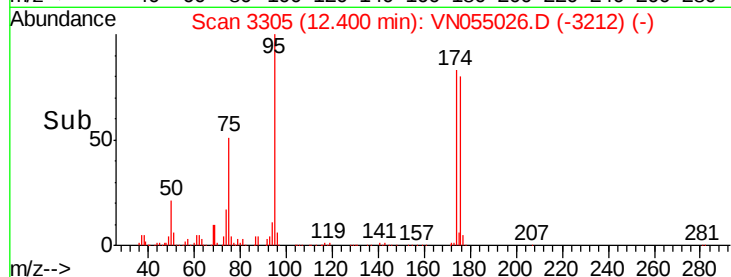
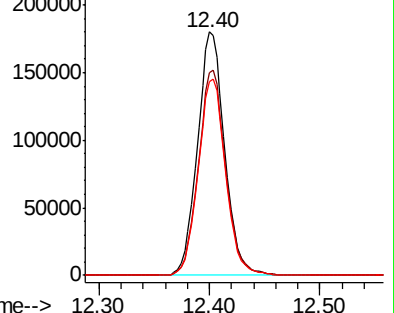
176 81.6 0.0 166.8



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: VN055026.D

Acq: 13 Apr 2019 13:42

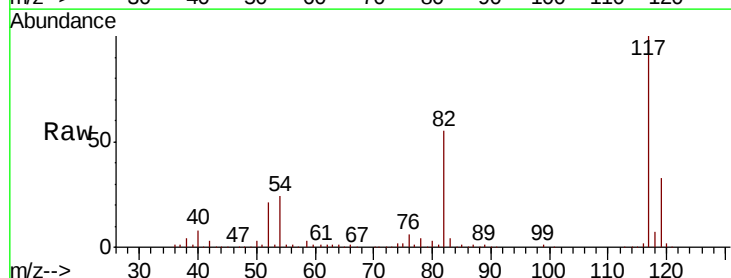
Tgt Ion: 117 Resp: 718243

Ion Ratio Lower Upper

117 100

82 55.3 44.6 66.8

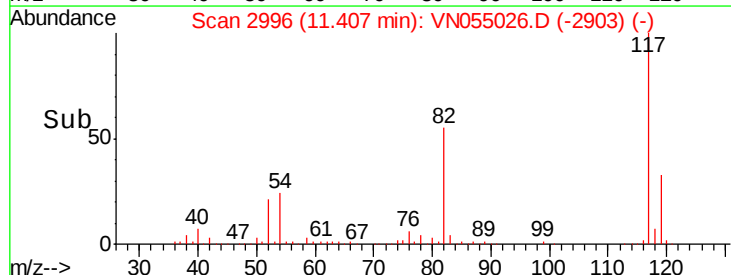
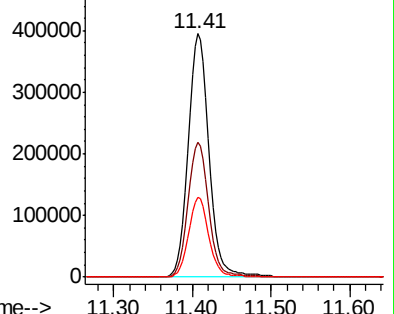
119 32.8 25.5 38.3

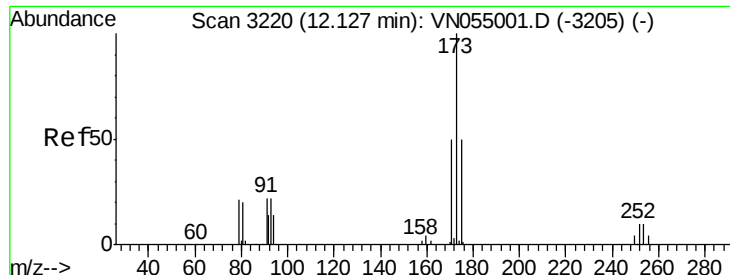


Abundance Ion 116.90 (116.60 to 117.60): VN055001.D (-2981) (-)

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: 3.241 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

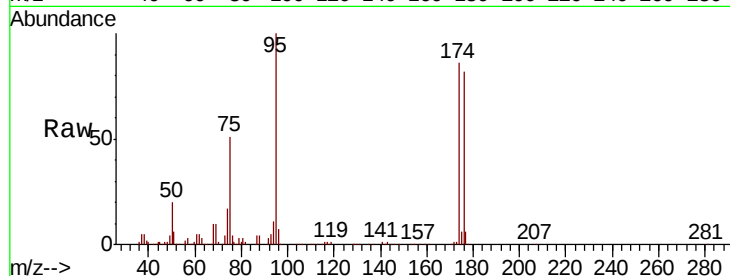
Tot Ion:173 Resp: 2421

Ion Ratio Lower Upper

173 100

175 683.7 24.3 73.0#

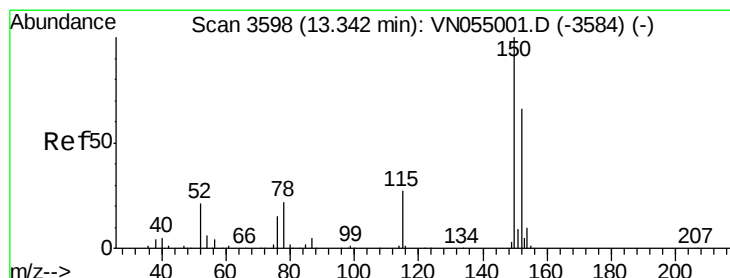
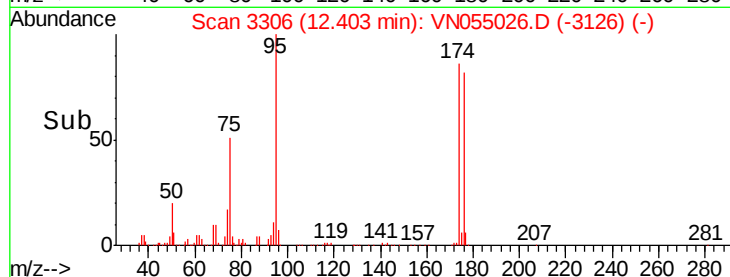
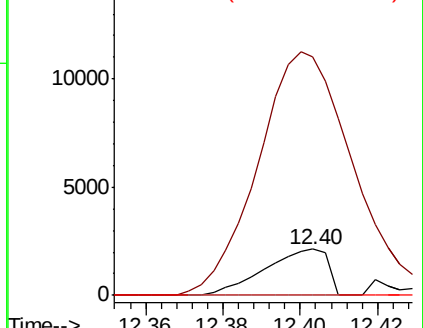
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

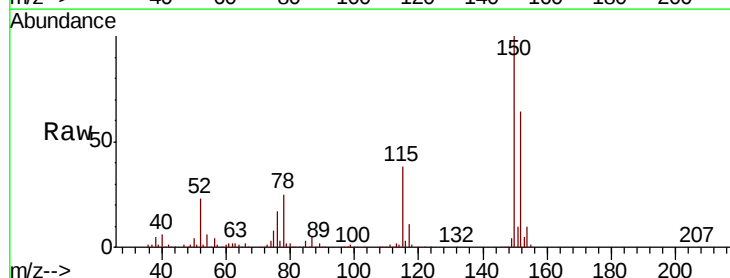
Tgt Ion:152 Resp: 236706

Ion Ratio Lower Upper

152 100

115 58.4 28.5 85.6

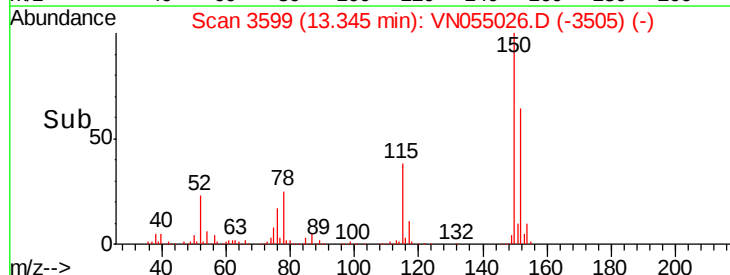
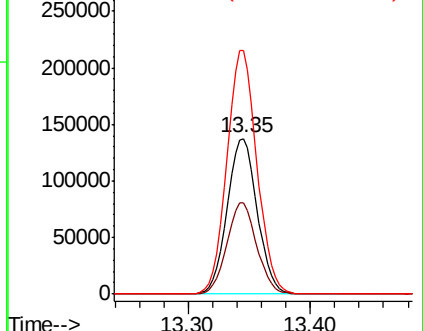
150 156.7 0.0 347.2

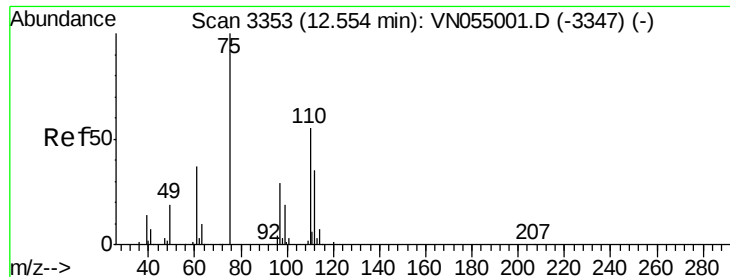


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.621 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

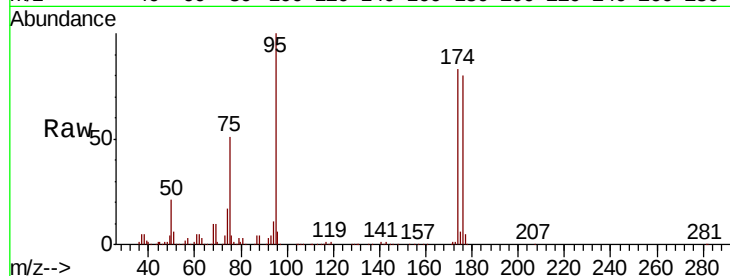
STORAGE-BLANK-WATER-REF-4

Tot Ion: 75 Resp: 155123

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

12.40

100000

80000

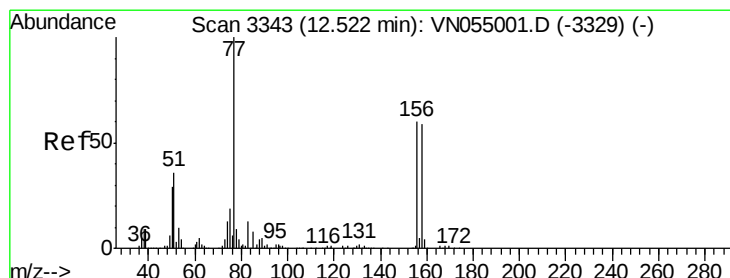
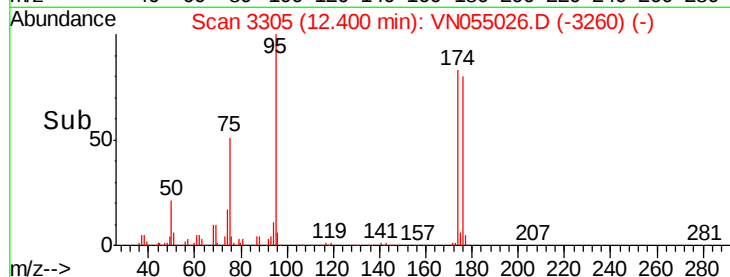
60000

40000

20000

0

Time-->



#77

Bromobenzene

Concen: Below Cal

RT: 12.39 min Scan# 3303

Delta R.T. -0.13 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

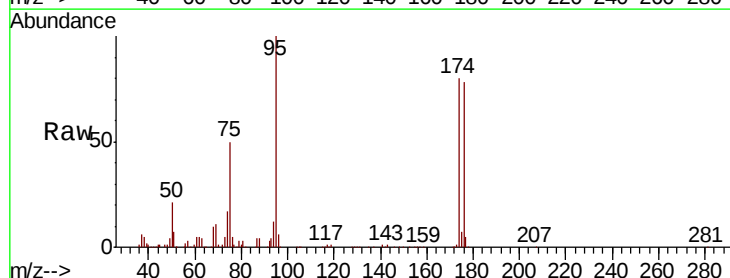
Tgt Ion: 156 Resp: 99

Ion Ratio Lower Upper

156 100

77 1863.6 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

1200

1000

800

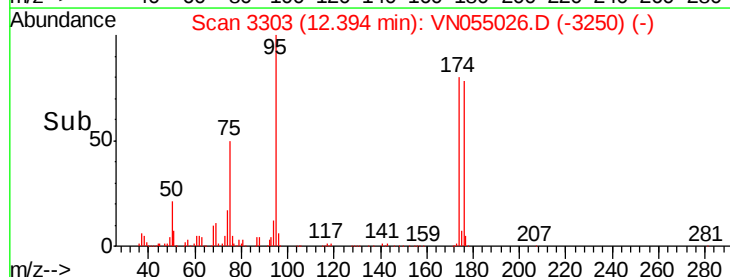
600

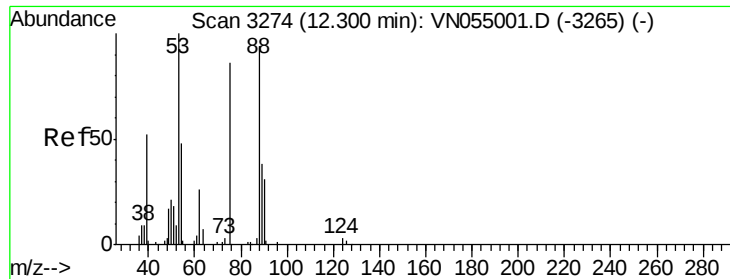
400

200

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 147.026 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

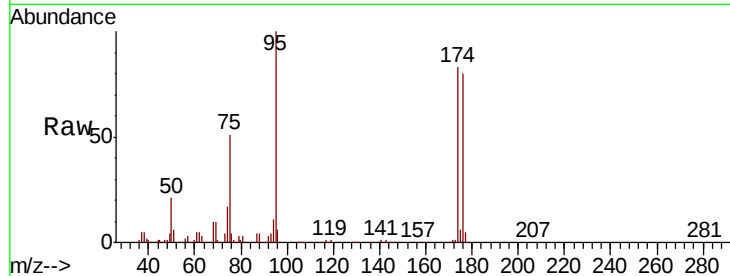
Tot Ion: 75 Resp: 155123

Ion Ratio Lower Upper

75 100

53 0.1 96.3 144.5#

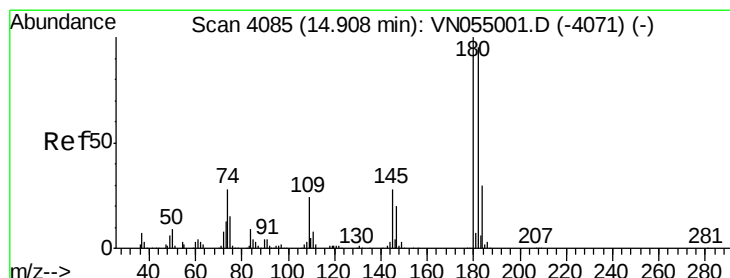
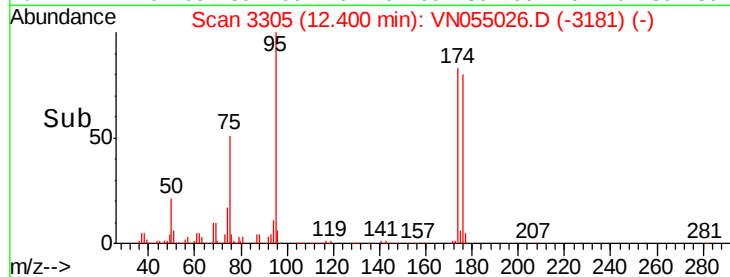
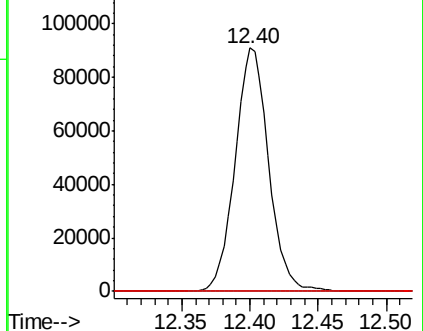
89 0.0 38.6 57.8#



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: 3.570 ug/l

RT: 14.90 min Scan# 4082

Delta R.T. -0.01 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

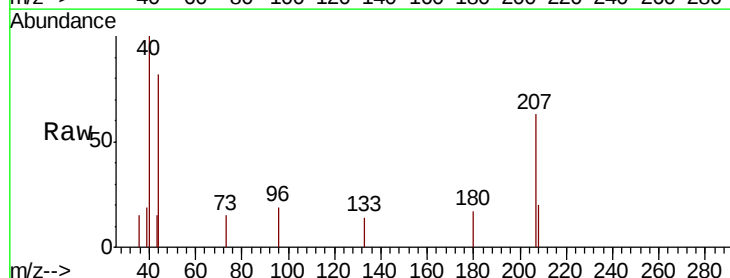
Tgt Ion: 180 Resp: 162

Ion Ratio Lower Upper

180 100

182 42.6 47.5 142.6#

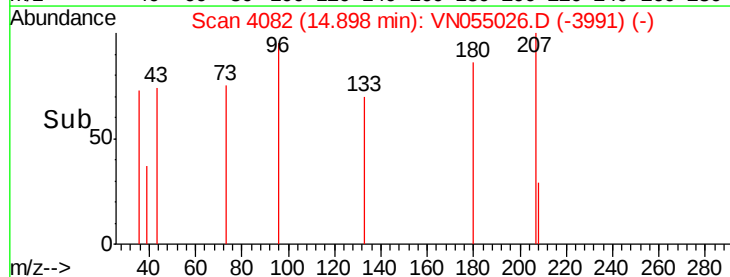
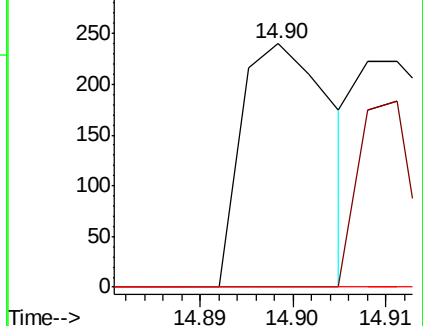
145 0.0 14.2 42.8#

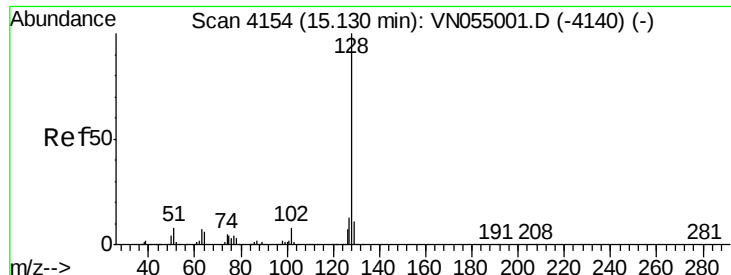


Abundance Ion 179.80 (179.50 to 180.50): VN055001.D (-4071) (-)

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

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





#95

Naphthalene

Concen: 4.729 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN055026.D

Acq: 13 Apr 2019 13:42

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

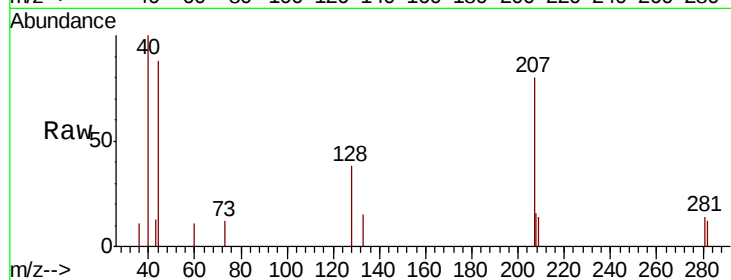
Tot Ion:128 Resp: 537

Ion Ratio Lower Upper

128 100

127 0.0 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

