

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\  
 Data File : VN056710.D  
 Acq On : 15 Jul 2019 14:29  
 Operator : JC/SP  
 Sample : K3797-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

Quant Time: Jul 16 04:22:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N071519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 16 01:25:25 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 288509   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 495849   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 509049   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 183224   | 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   | 165731   | 51.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.86% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 149752   | 48.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.06%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 622753   | 52.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.50% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 215651   | 53.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.32% |          |

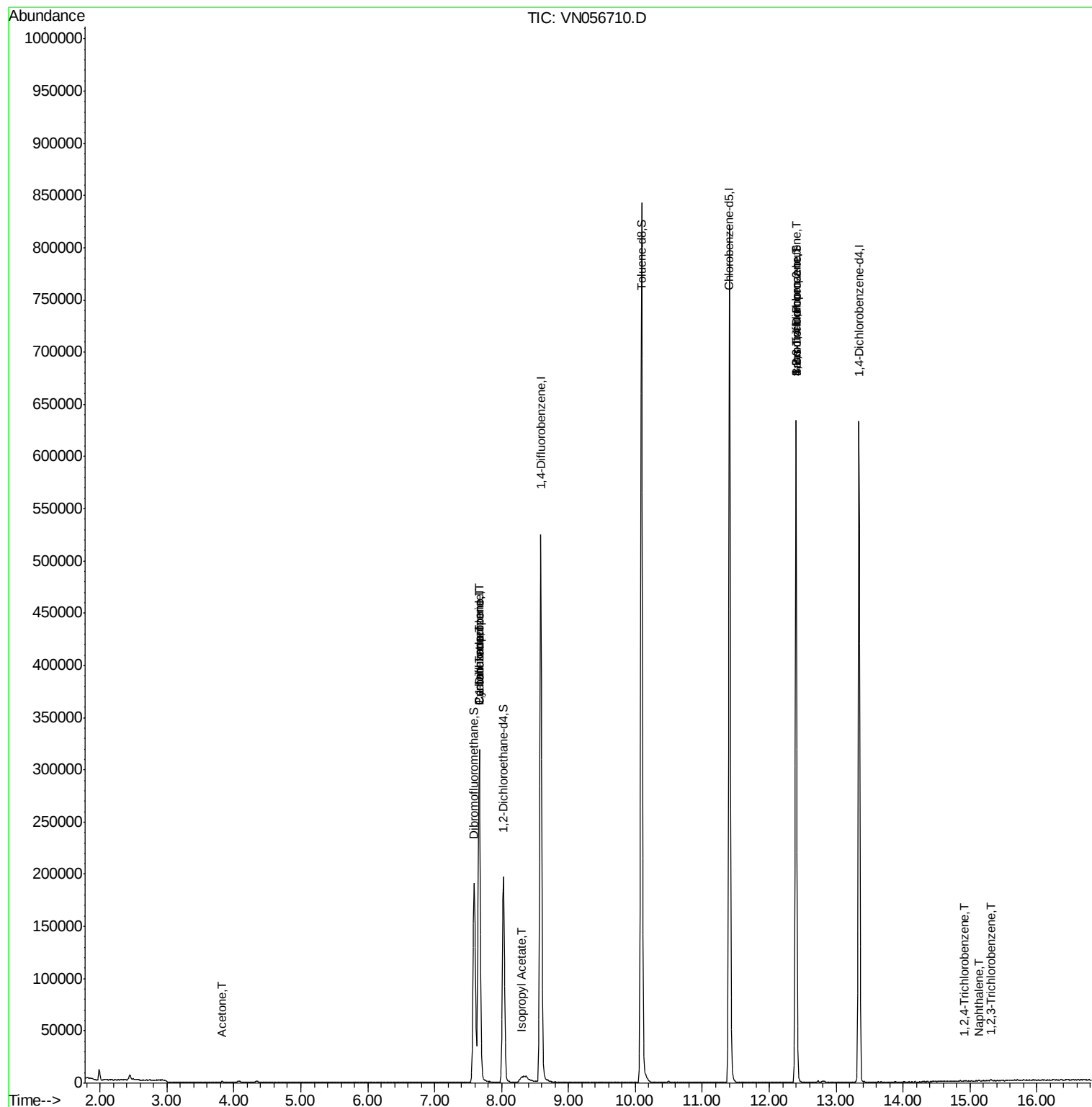
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.82  | 43   | 674      | 0.458     | ug/l # | 76     |
| 18) Methyl Acetate             | 4.33  | 43   | 2179     | Below Cal | #      | 62     |
| 31) Cyclohexane                | 7.66  | 56   | 4613     | 0.904     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 18896    | 4.118     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 24250    | 5.636     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.30  | 43   | 3931     | 0.553     | ug/l # | 53     |
| 71) Bromoform                  | 12.40 | 173  | 1584     | 0.543     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 101792   | 25.401    | ug/l # | 100    |
| 79) 2-Chlorotoluene            | 12.59 | 91   | 207      | Below Cal | #      | 39     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 101792   | 78.447    | ug/l # | 13     |
| 93) 1,2,4-Trichlorobenzene     | 14.90 | 180  | 154      | 3.731     | ug/l # | 38     |
| 95) Naphthalene                | 15.14 | 128  | 671      | 4.588     | ug/l # | 69     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 176      | 3.369     | ug/l # | 13     |

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

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Instrument :  
MSVOA\_N  
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STORAGE-BLANK-WATER-REF-5

Quant Time: Jul 16 04:22:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N071519W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 16 01:25:25 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056710.D

Acq: 15 Jul 2019 14:29

Instrument :

MSVOA\_N

ClientSampleId :

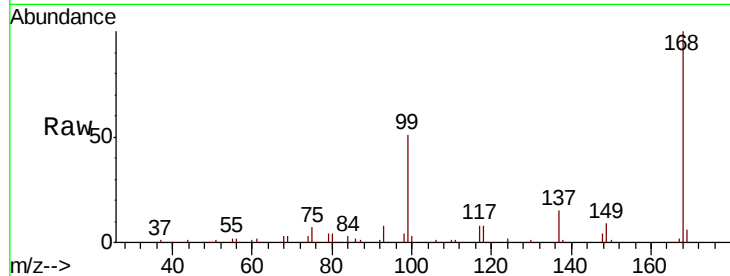
STORAGE-BLANK-WATER-REF-5

Tot Ion:168 Resp: 288509

Ion Ratio Lower Upper

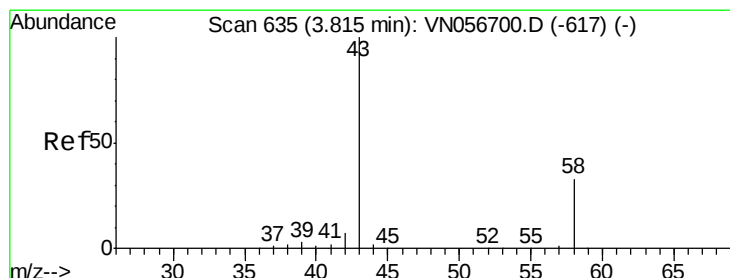
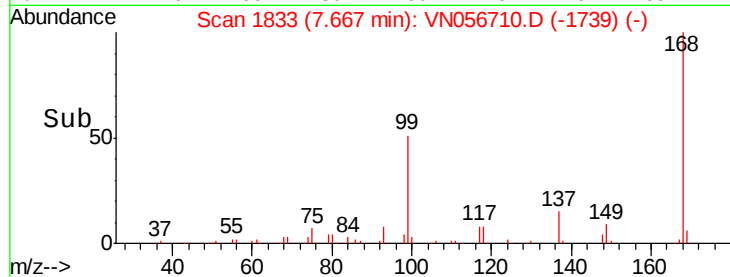
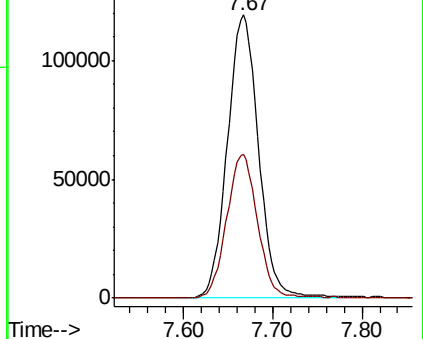
168 100

99 50.7 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 0.458 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN056710.D

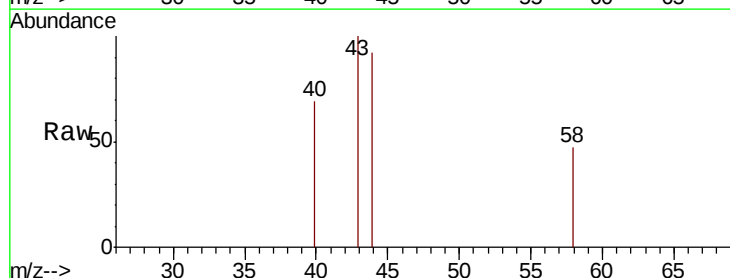
Acq: 15 Jul 2019 14:29

Tgt Ion: 43 Resp: 674

Ion Ratio Lower Upper

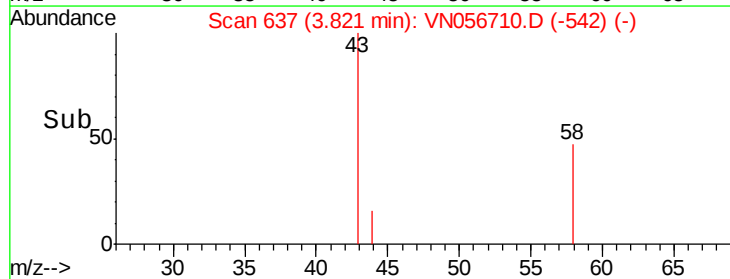
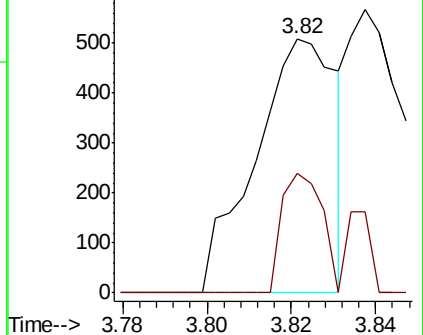
43 100

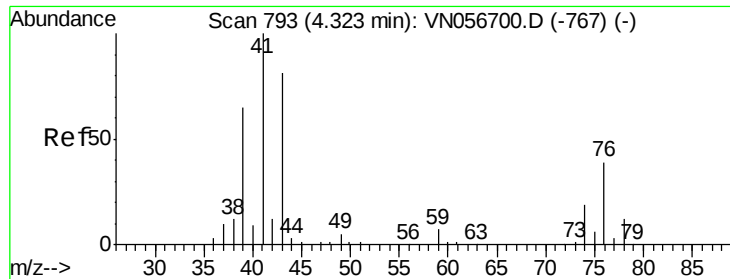
58 47.2 26.7 40.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

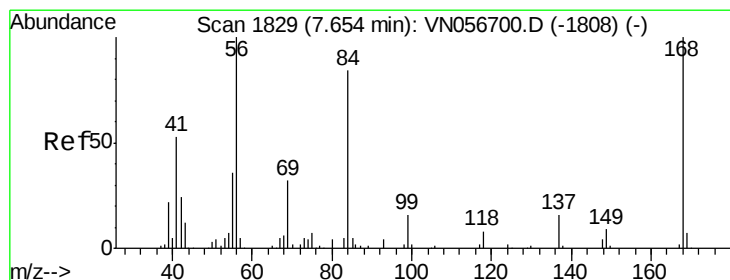
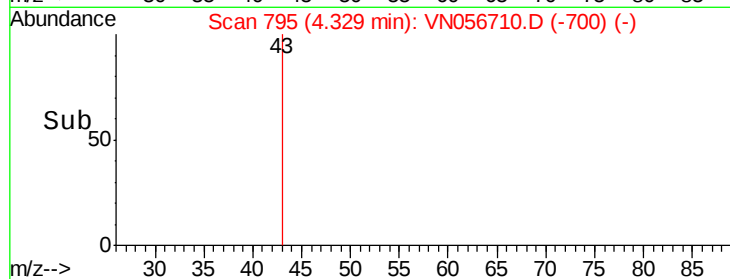
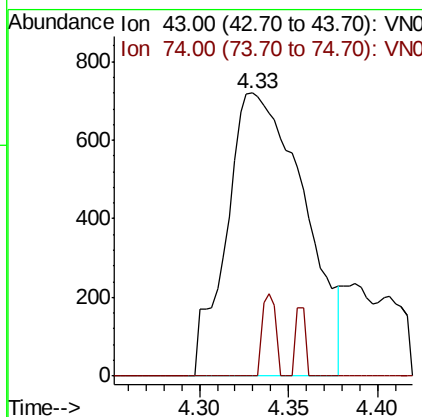
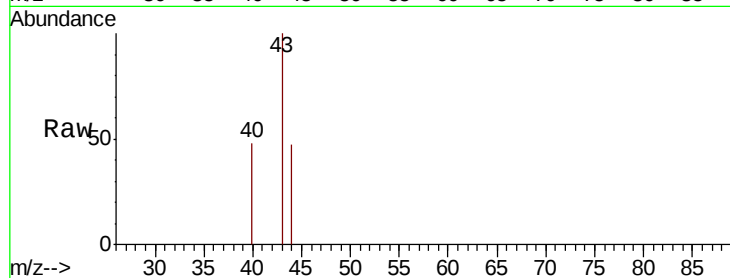




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.33 min Scan# 795  
Delta R.T. 0.01 min  
Lab File: VN056710.D  
Acq: 15 Jul 2019 14:29

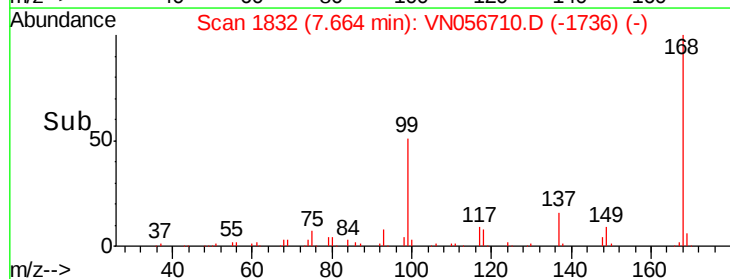
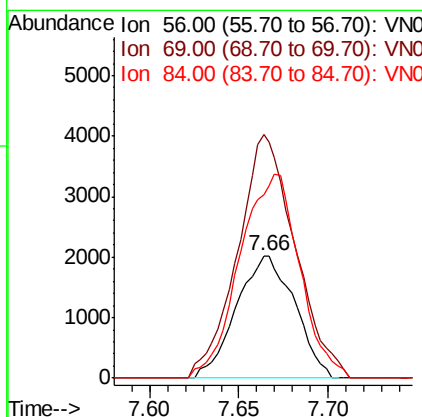
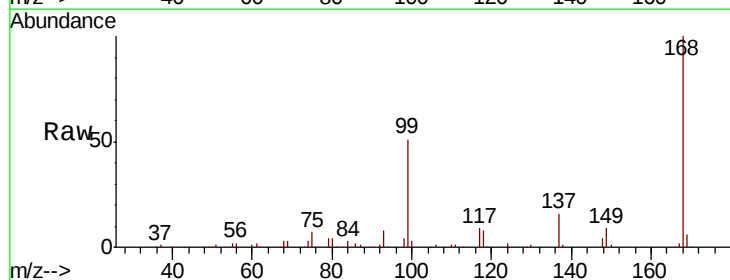
Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

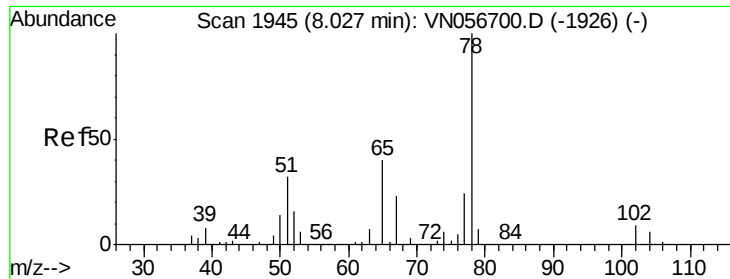
Tot Ion: 43 Resp: 2179  
Ion Ratio Lower Upper  
43 100  
74 5.1 18.9 28.3#



#31  
Cyclohexane  
Concen: 0.904 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.01 min  
Lab File: VN056710.D  
Acq: 15 Jul 2019 14:29

Tgt Ion: 56 Resp: 4613  
Ion Ratio Lower Upper  
56 100  
69 199.1 25.8 38.8#  
84 149.8 67.4 101.0#

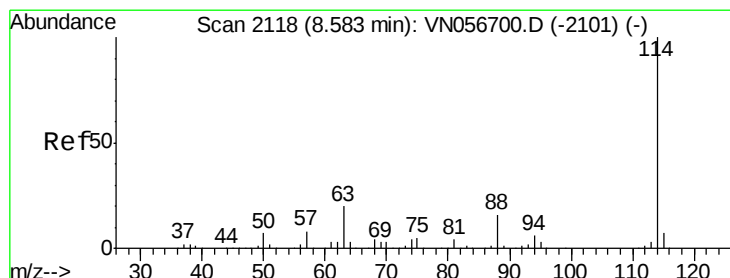
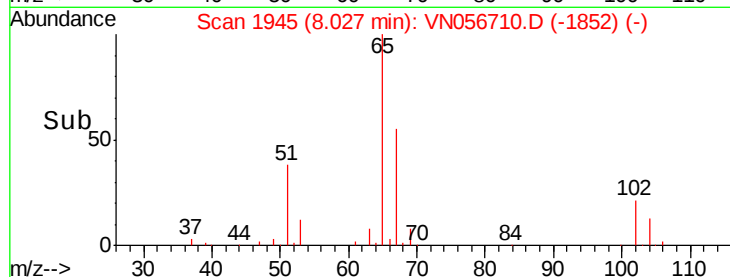
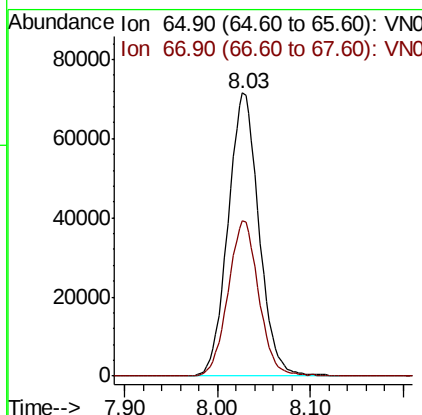
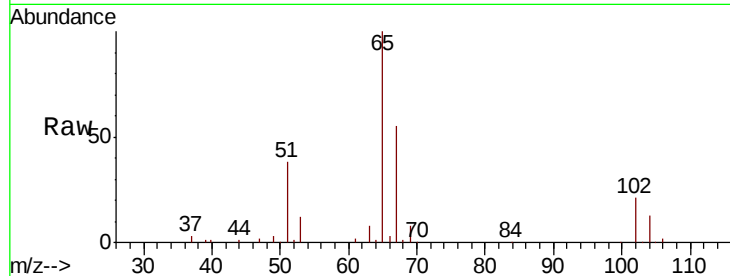




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.932 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN056710.D  
 Acq: 15 Jul 2019 14:29

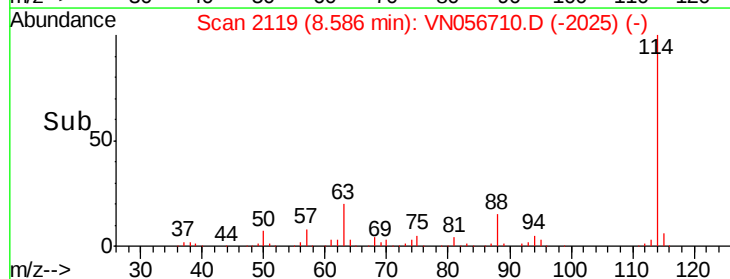
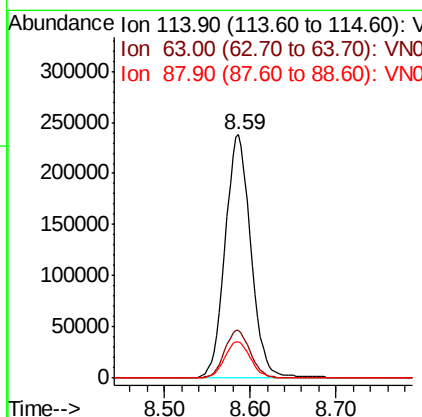
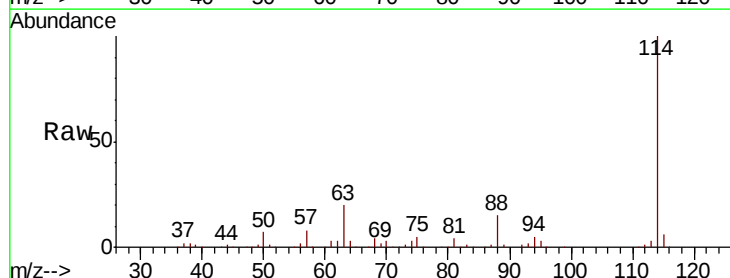
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

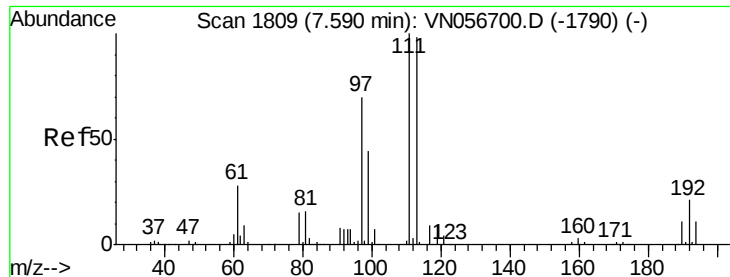
Tot Ion: 65 Resp: 165731  
 Ion Ratio Lower Upper  
 65 100  
 67 54.4 0.0 109.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN056710.D  
 Acq: 15 Jul 2019 14:29

Tgt Ion: 114 Resp: 495849  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 39.4  
 88 15.0 0.0 31.2

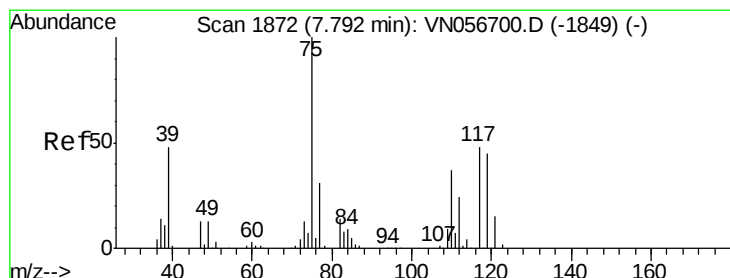
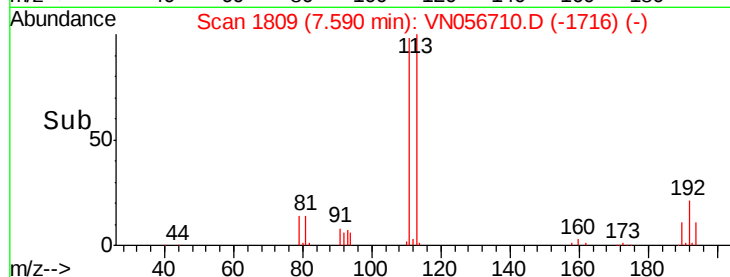
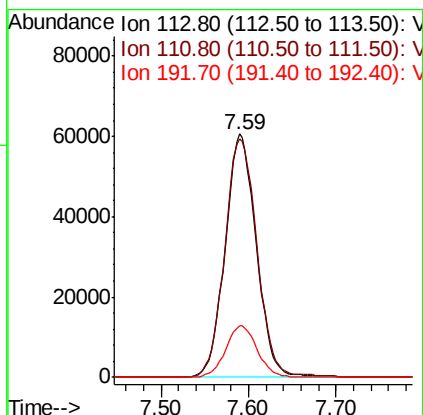
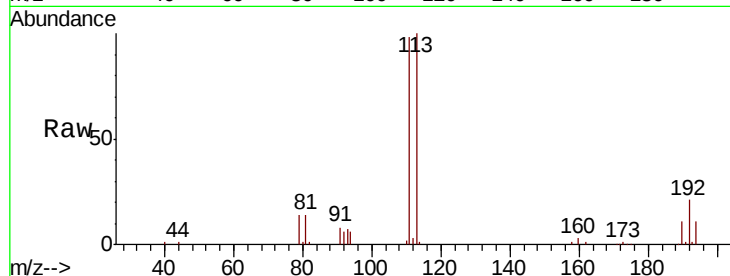




#35  
 Dibromofluoromethane  
 Concen: 48.530 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN056710.D  
 Acq: 15 Jul 2019 14:29

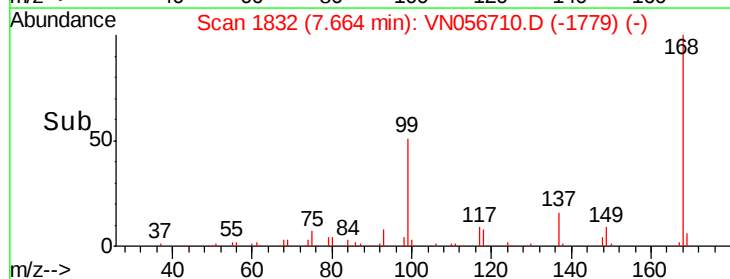
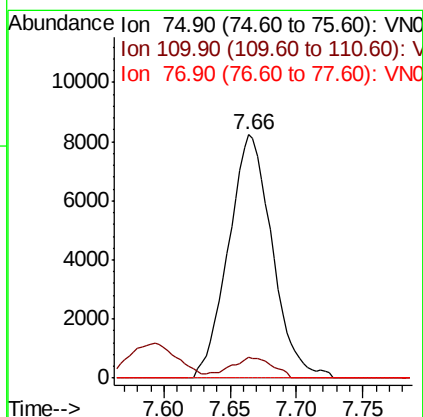
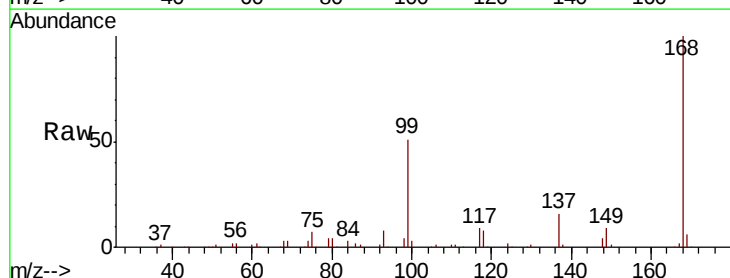
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

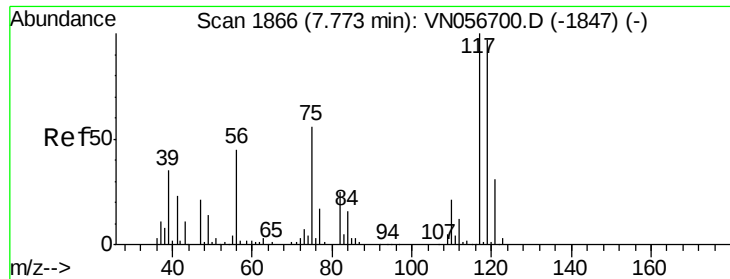
Tot Ion:113 Resp: 149752  
 Ion Ratio Lower Upper  
 113 100  
 111 101.0 81.8 122.6  
 192 21.3 17.5 26.3



#36  
 1,1-Dichloropropene  
 Concen: 4.118 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN056710.D  
 Acq: 15 Jul 2019 14:29

Tgt Ion: 75 Resp: 18896  
 Ion Ratio Lower Upper  
 75 100  
 110 8.2 18.4 55.4#  
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.636 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056710.D

Acq: 15 Jul 2019 14:29

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

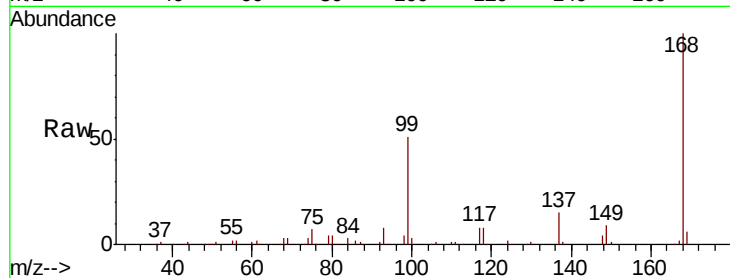
Tot Ion:117 Resp: 24250

Ion Ratio Lower Upper

117 100

119 5.0 77.5 116.3#

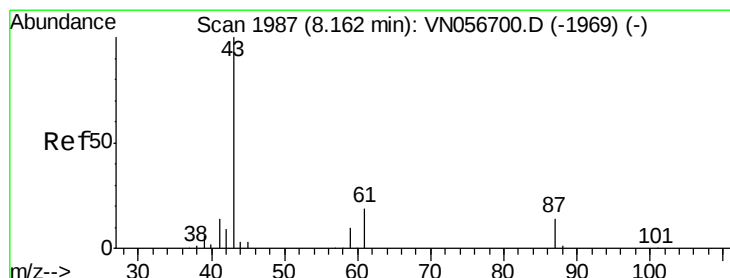
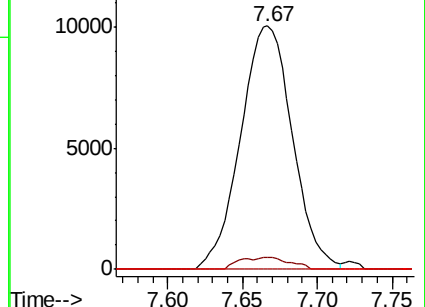
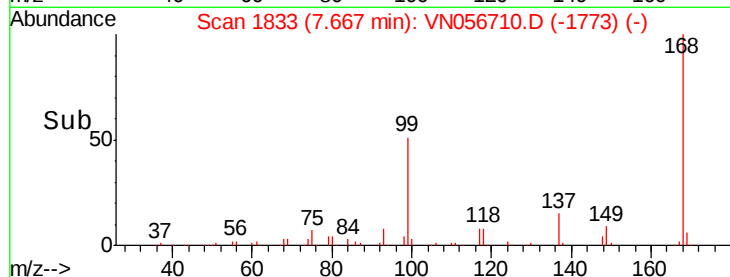
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.553 ug/l

RT: 8.30 min Scan# 2029

Delta R.T. 0.13 min

Lab File: VN056710.D

Acq: 15 Jul 2019 14:29

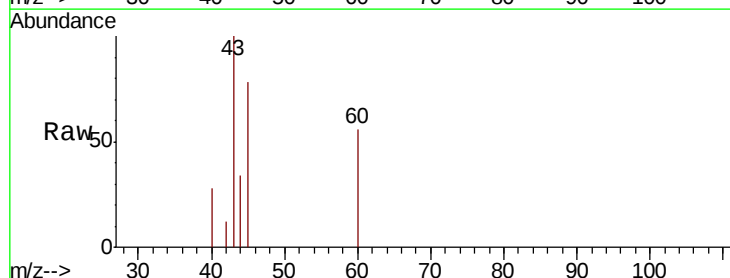
Tgt Ion: 43 Resp: 3931

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

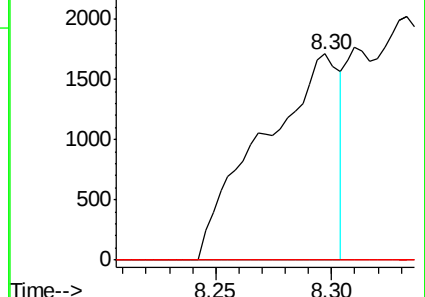
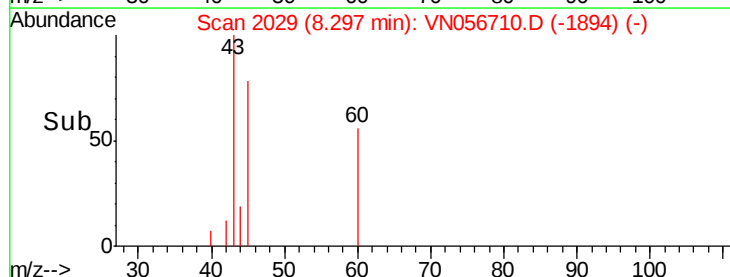
87 0.0 11.1 16.7#

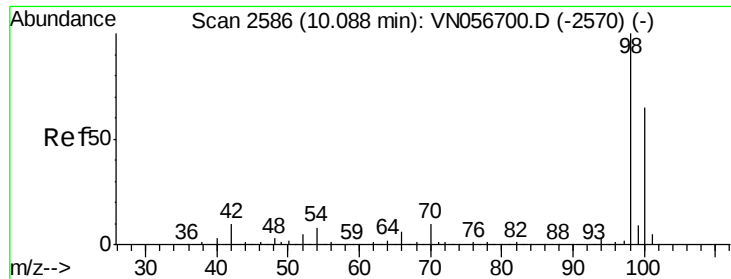


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 52.253 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056710.D

Acq: 15 Jul 2019 14:29

Instrument :

MSVOA\_N

ClientSampleId :

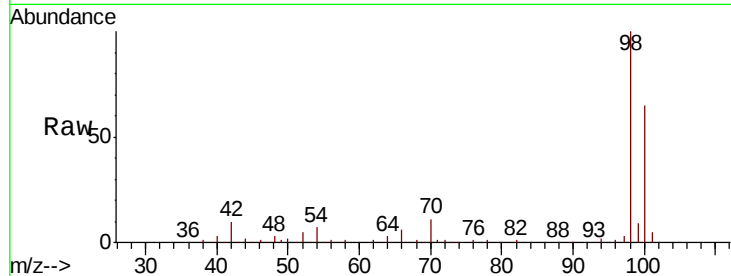
STORAGE-BLANK-WATER-REF-5

Tot Ion: 98 Resp: 622753

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056710.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056710.D (-2570) (-)

10.09

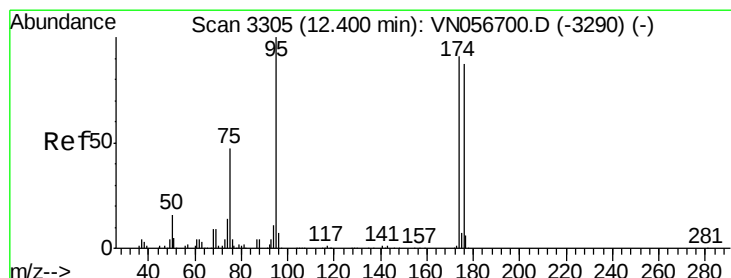
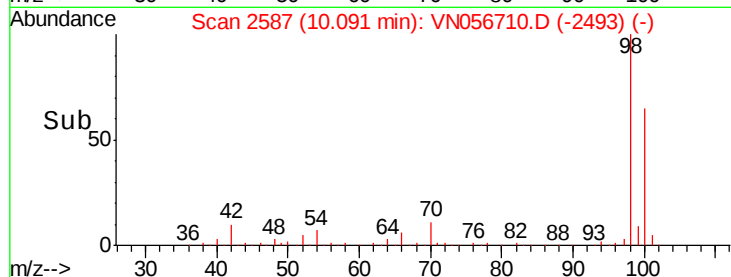
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.656 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056710.D

Acq: 15 Jul 2019 14:29

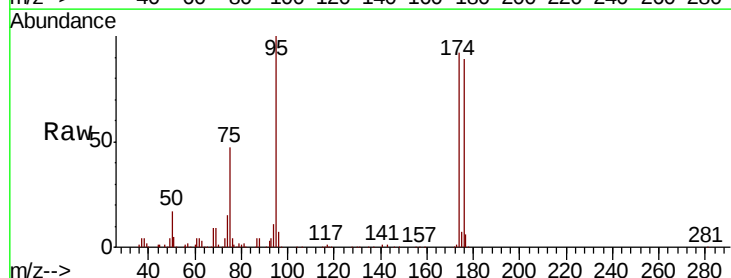
Tgt Ion: 95 Resp: 215651

Ion Ratio Lower Upper

95 100

174 91.5 0.0 180.0

176 87.8 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN056710.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN056710.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN056710.D (-3212) (-)

12.40

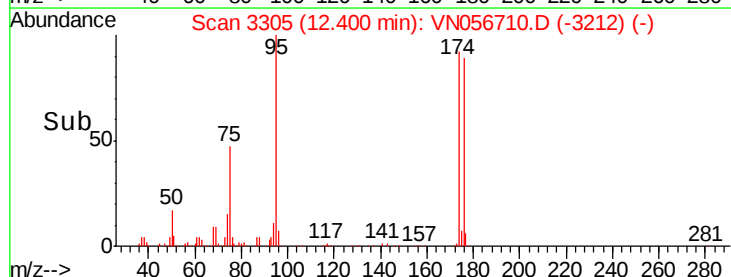
150000

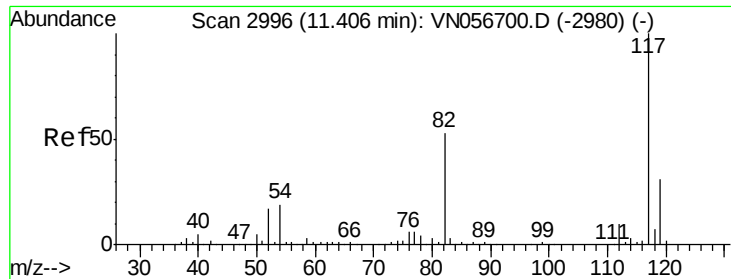
100000

50000

0

Time-->

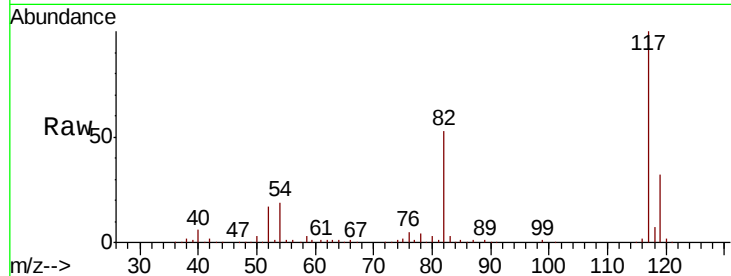




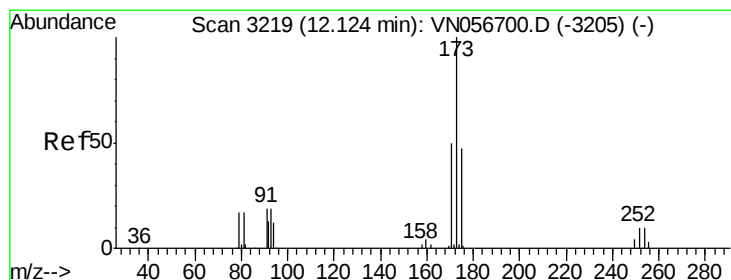
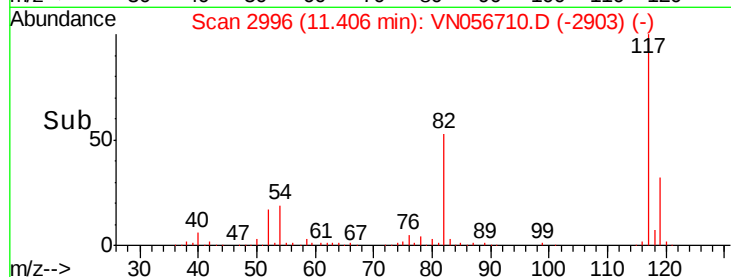
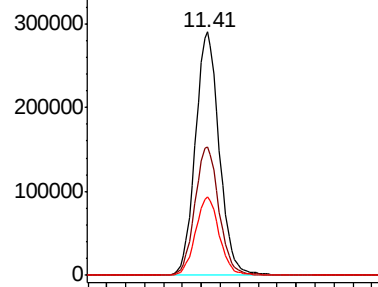
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN056710.D  
Acq: 15 Jul 2019 14:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

Tot Ion:117 Resp: 509049  
Ion Ratio Lower Upper  
117 100  
82 52.8 42.2 63.2  
119 32.4 25.2 37.8

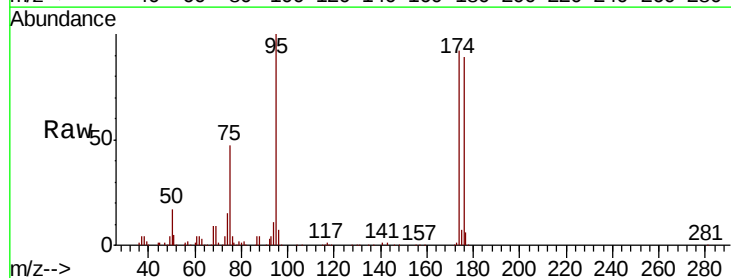


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

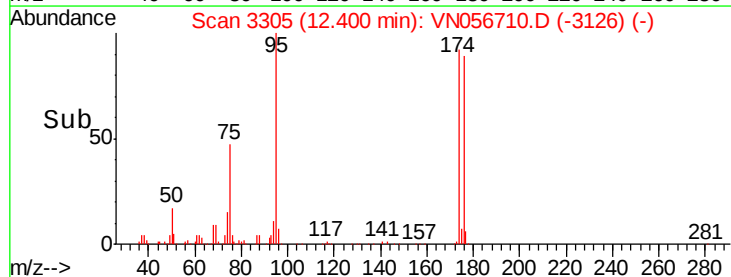
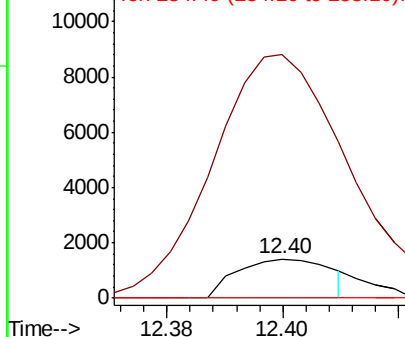


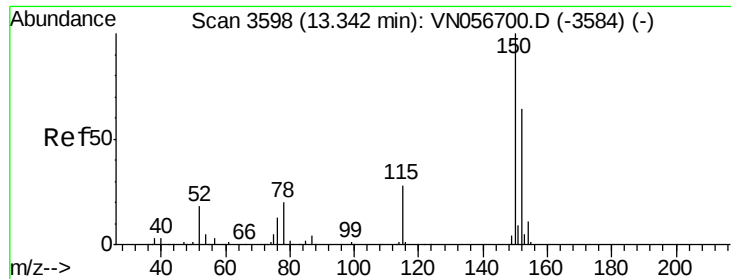
#71  
Bromoform  
Concen: 0.543 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.28 min  
Lab File: VN056710.D  
Acq: 15 Jul 2019 14:29

Tgt Ion:173 Resp: 1584  
Ion Ratio Lower Upper  
173 100  
175 764.5 23.8 71.4#  
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: VN056710.D

Acq: 15 Jul 2019 14:29

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

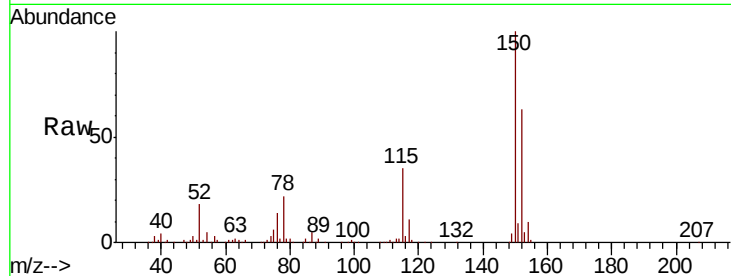
Tot Ion:152 Resp: 183224

Ion Ratio Lower Upper

152 100

115 56.4 28.2 84.7

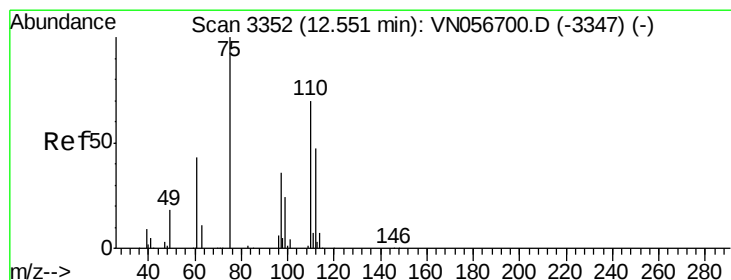
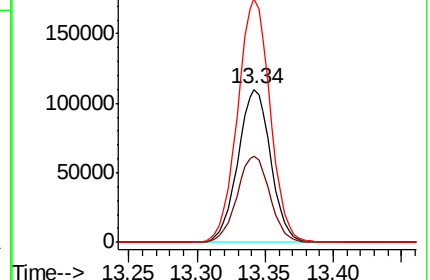
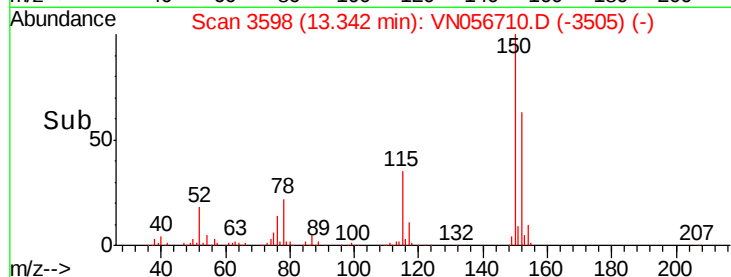
150 158.3 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.401 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056710.D

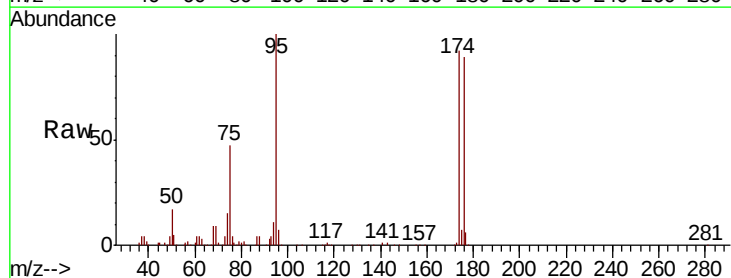
Acq: 15 Jul 2019 14:29

Tgt Ion: 75 Resp: 101792

Ion Ratio Lower Upper

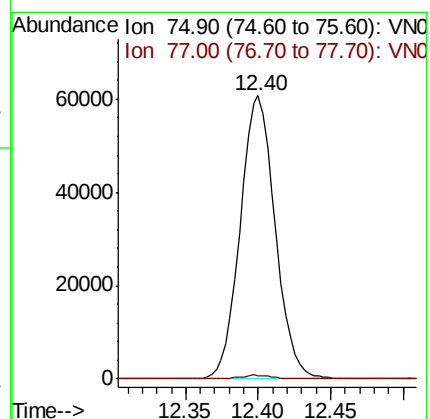
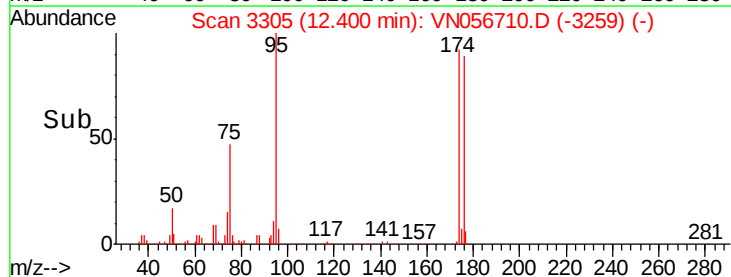
75 100

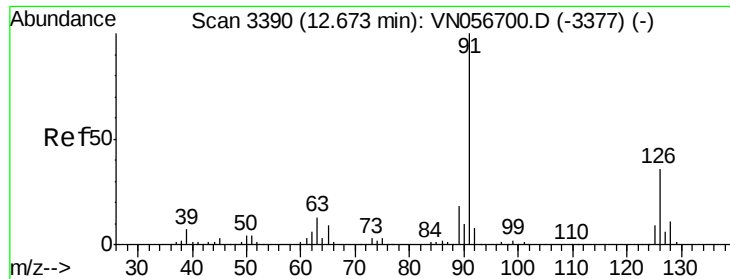
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056710.D

Acq: 15 Jul 2019 14:29

Instrument :

MSVOA\_N

ClientSampleId :

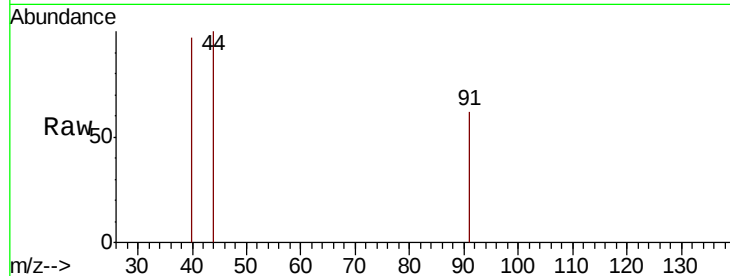
STORAGE-BLANK-WATER-REF-5

Tot Ion: 91 Resp: 207

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.59

300

250

200

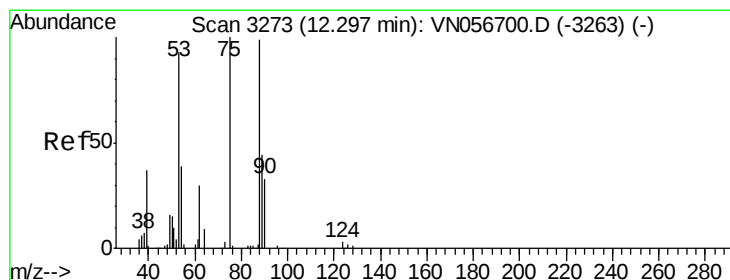
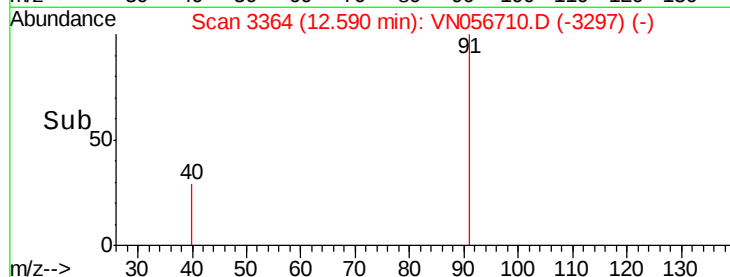
150

100

50

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 78.447 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056710.D

Acq: 15 Jul 2019 14:29

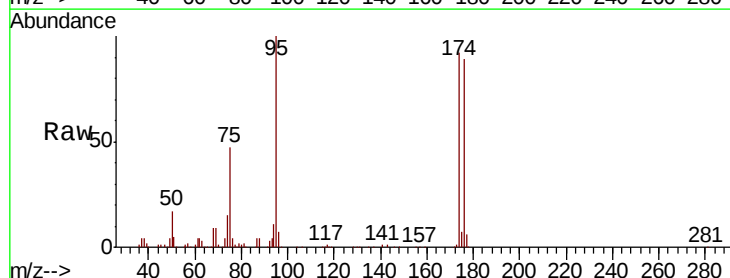
Tgt Ion: 75 Resp: 101792

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#



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

80000

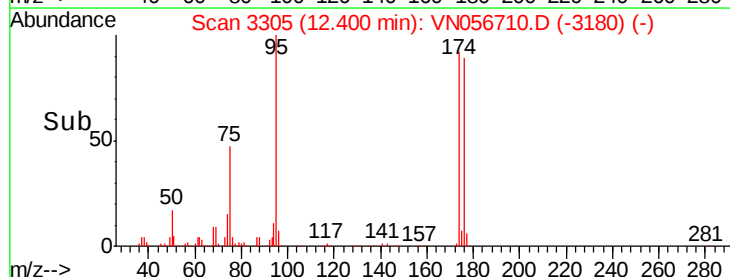
60000

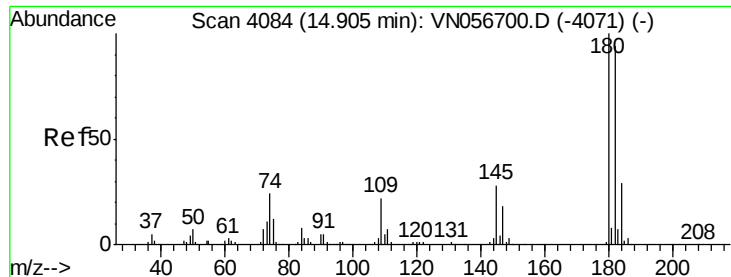
40000

20000

0

Time-->

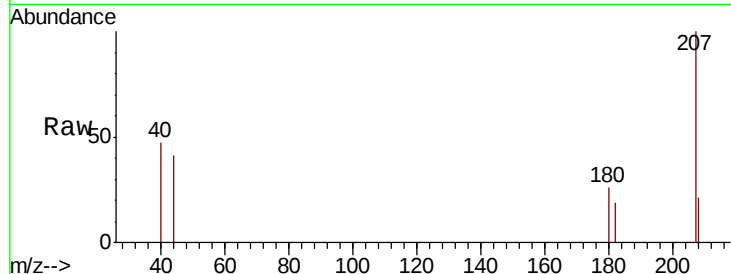




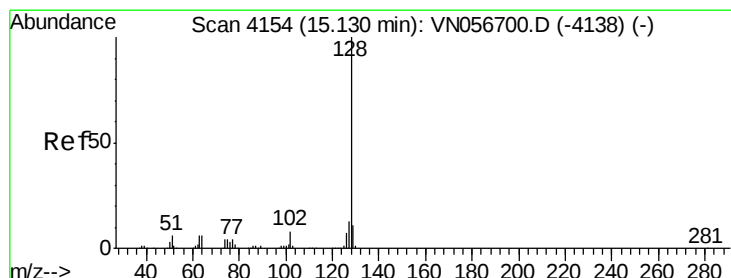
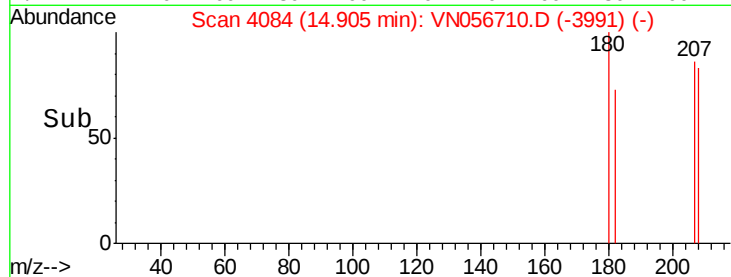
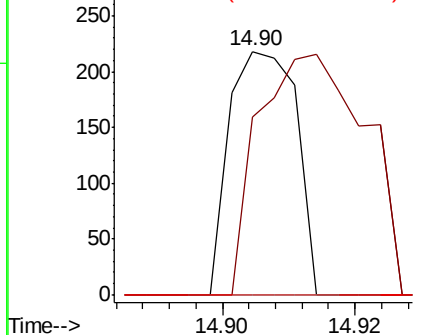
#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.731 ug/l  
 RT: 14.90 min Scan# 4084  
 Delta R.T. 0.00 min  
 Lab File: VN056710.D  
 Acq: 15 Jul 2019 14:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

Tot Ion:180 Resp: 154  
 Ion Ratio Lower Upper  
 180 100  
 182 156.5 47.2 141.6#  
 145 0.0 14.2 42.8#

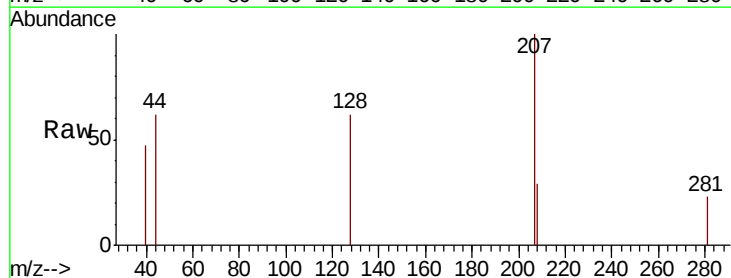


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

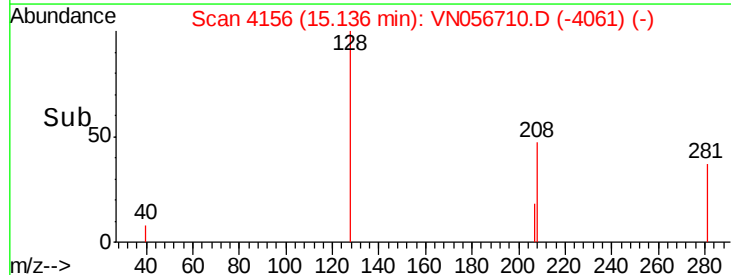
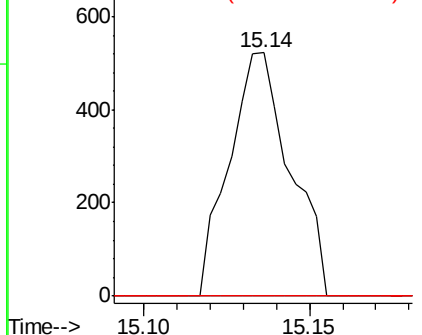


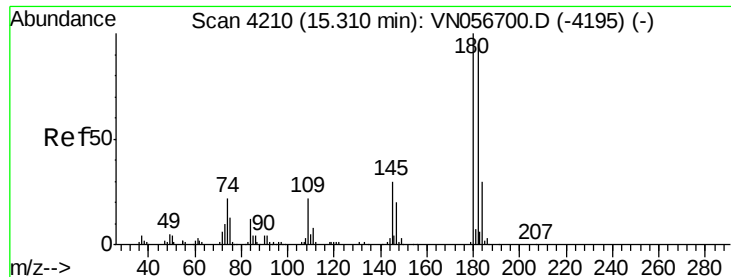
#95  
 Naphthalene  
 Concen: 4.588 ug/l  
 RT: 15.14 min Scan# 4156  
 Delta R.T. 0.01 min  
 Lab File: VN056710.D  
 Acq: 15 Jul 2019 14:29

Tgt Ion:128 Resp: 671  
 Ion Ratio Lower Upper  
 128 100  
 127 0.0 10.3 15.5#  
 129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 127.00 (126.70 to 127.70): V  
 Ion 129.00 (128.70 to 129.70): V

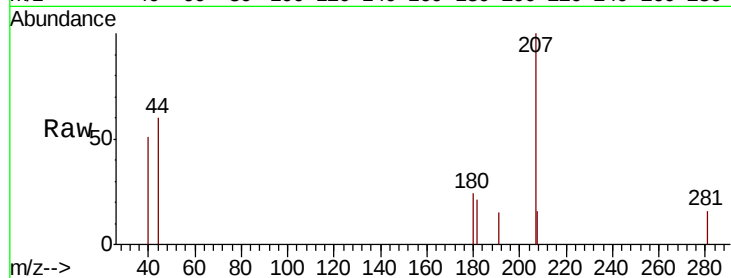




#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.369 ug/l  
 RT: 15.31 min Scan# 4209  
 Delta R.T. -0.00 min  
 Lab File: VN056710.D  
 Acq: 15 Jul 2019 14:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

Tot Ion:180 Resp: 176  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 47.1 141.3#  
 145 0.0 15.0 45.1#



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.90 (144.60 to 145.60): V

