

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122218\  
 Data File : VN053168.D  
 Acq On : 23 Dec 2018 7:53  
 Operator : MD\SY  
 Sample : J6448-01  
 Misc : 5.98g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 48 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S72-0053

Quant Time: Dec 23 23:15:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 18 13:03:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 1111070  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 1710790  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1552857  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 654179   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 542139   | 48.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.16%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 430287   | 55.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.12% |          |
| 50) Toluene-d8              | 10.09 | 98   | 2087484  | 49.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.52%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 708708   | 48.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.24%  |          |

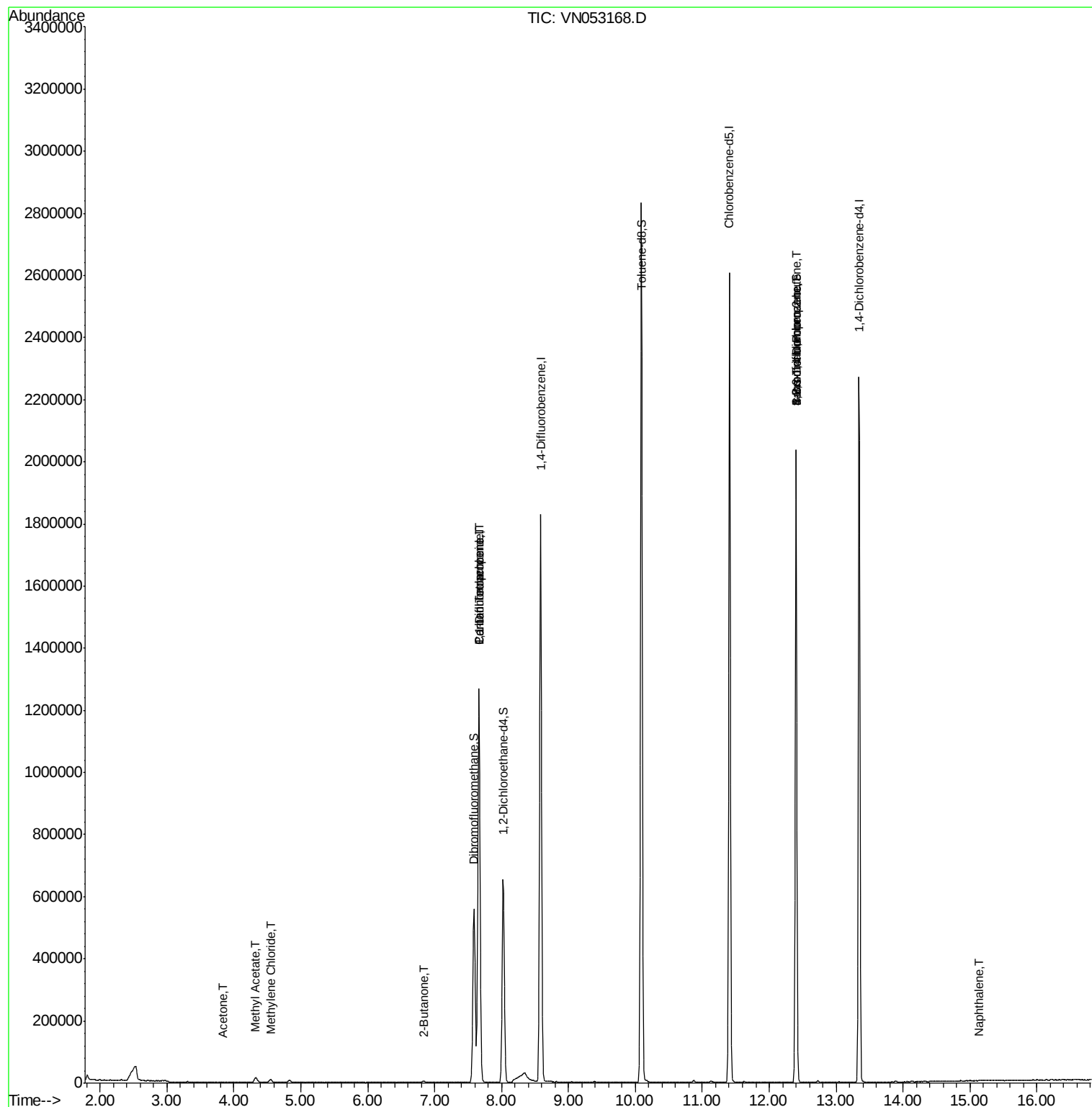
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.83  | 43   | 2726     | 1.233     | ug/l   | 94     |
| 18) Methyl Acetate             | 4.32  | 43   | 33724    | 4.286     | ug/l   | 100    |
| 20) Methylene Chloride         | 4.55  | 84   | 8284     | 0.687     | ug/l   | 90     |
| 25) 2-Butanone                 | 6.84  | 43   | 760      | 0.205     | ug/l # | 49     |
| 31) Cyclohexane                | 7.66  | 56   | 17879    | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 75053    | 4.571     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 96820    | 6.433     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.20  | 43   | 9910     | Below Cal | #      | 53     |
| 71) Bromoform                  | 12.40 | 173  | 4394     | 0.508     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 329846   | 29.952    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 329846   | 96.539    | ug/l # | 12     |
| 95) Naphthalene                | 15.13 | 128  | 537      | 1.167     | ug/l # | 69     |

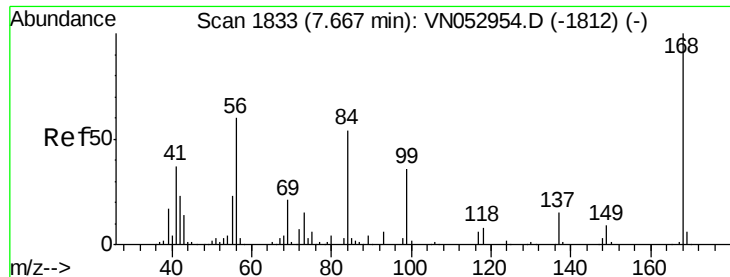
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_N  
ClientSampleId :  
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Quant Time: Dec 23 23:15:43 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 18 13:03:37 2018  
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: VN053168.D

Acq: 23 Dec 2018 7:53

Instrument :

MSVOA\_N

ClientSampleId :

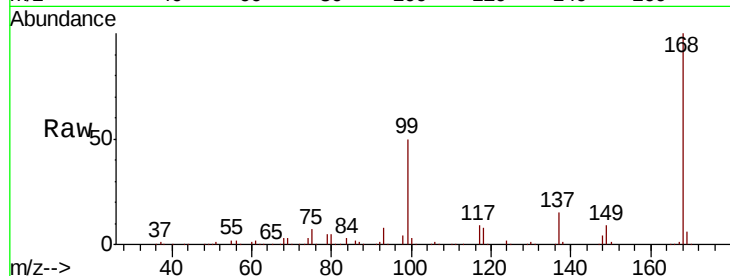
S72-0053

Tot Ion:168 Resp: 1111070

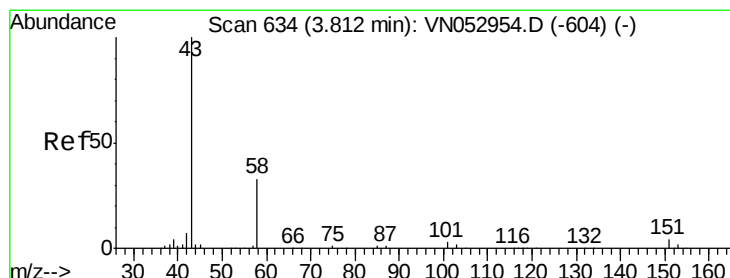
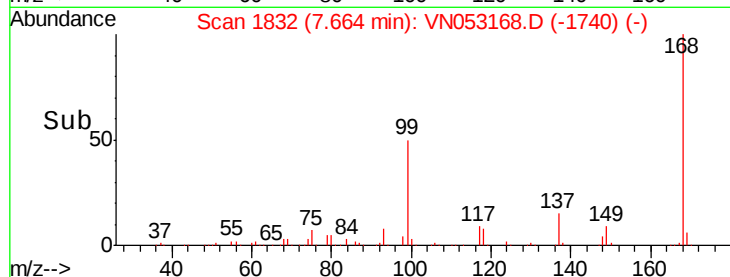
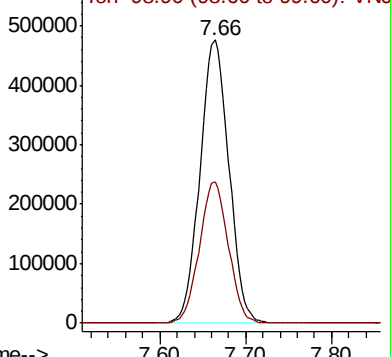
Ion Ratio Lower Upper

168 100

99 49.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN053168.D (-1740) (-)



#16

Acetone

Concen: 1.233 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.02 min

Lab File: VN053168.D

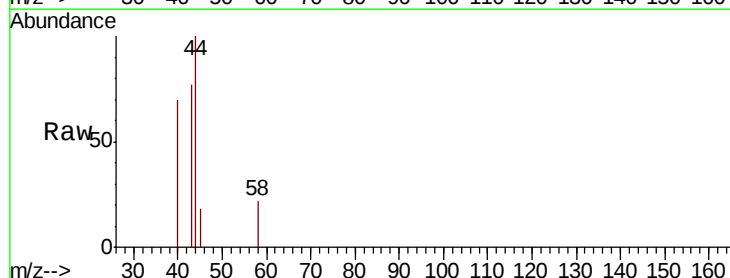
Acq: 23 Dec 2018 7:53

Tgt Ion: 43 Resp: 2726

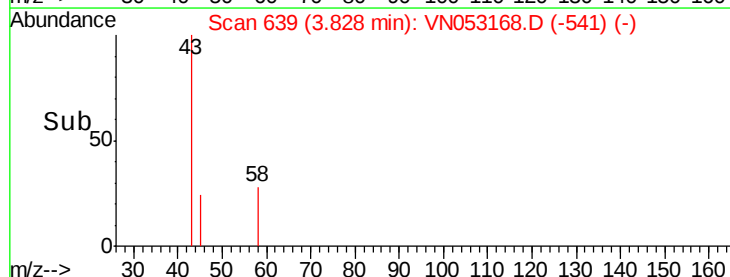
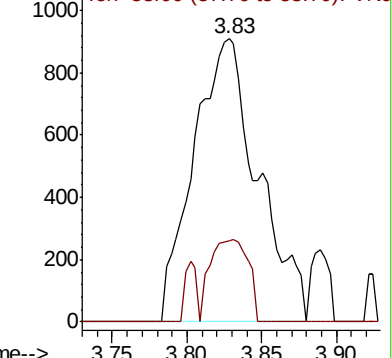
Ion Ratio Lower Upper

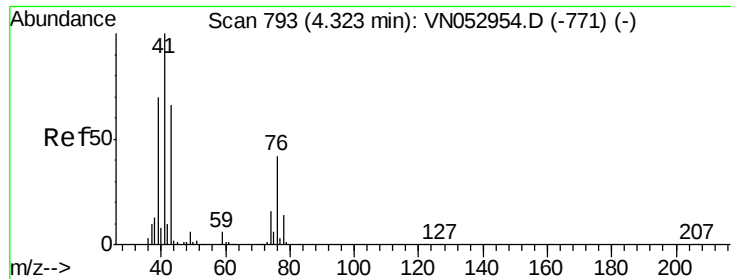
43 100

58 28.5 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN053168.D (-541) (-)

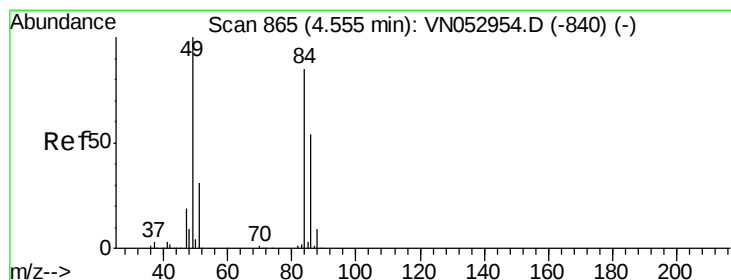
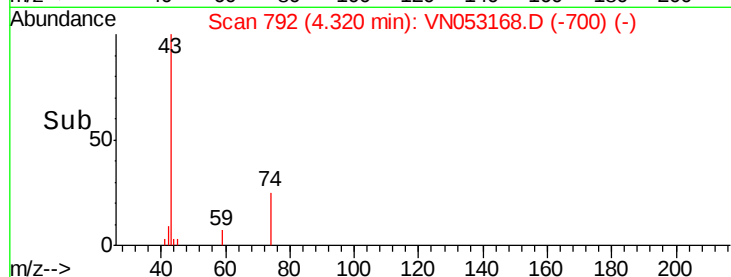
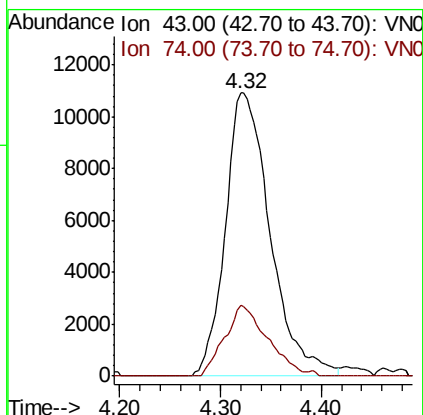
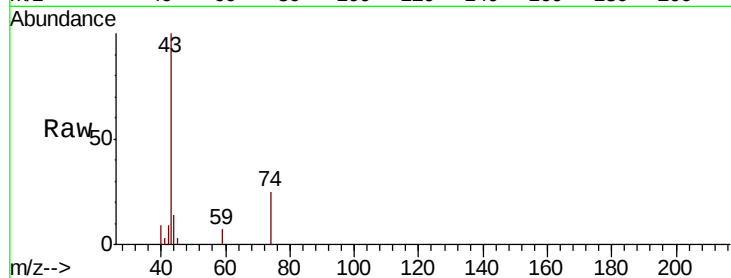




#18  
Methvl Acetate  
Concen: 4.286 ug/l  
RT: 4.32 min Scan# 792  
Delta R.T. -0.00 min  
Lab File: VN053168.D  
Acq: 23 Dec 2018 7:53

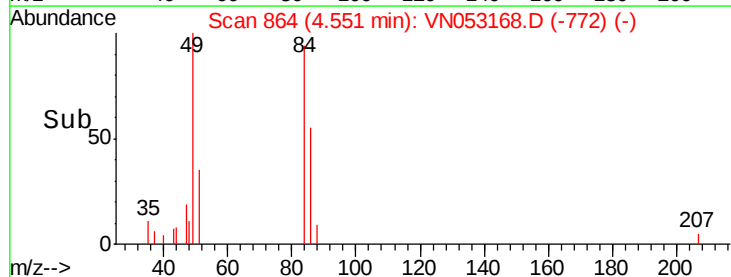
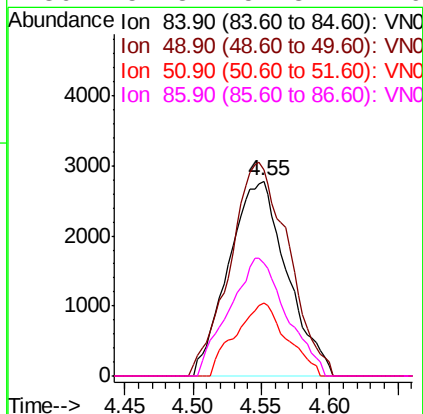
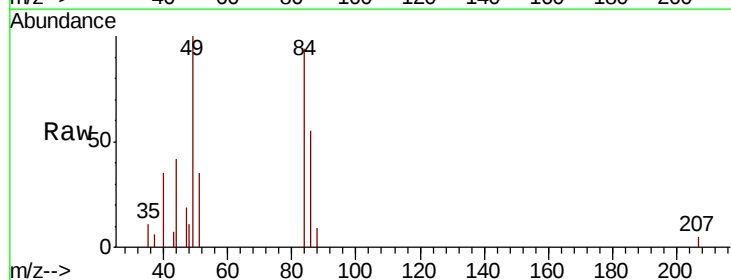
Instrument :  
MSVOA\_N  
ClientSampleId :  
S72-0053

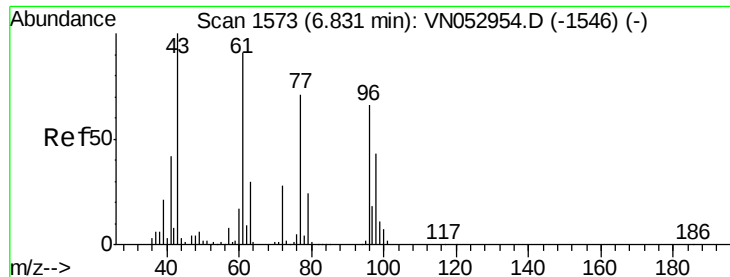
Tot Ion: 43 Resp: 33724  
Ion Ratio Lower Upper  
43 100  
74 23.8 19.2 28.8



#20  
Methylene Chloride  
Concen: 0.687 ug/l  
RT: 4.55 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VN053168.D  
Acq: 23 Dec 2018 7:53

Tgt Ion: 84 Resp: 8284  
Ion Ratio Lower Upper  
84 100  
49 106.0 96.8 145.2  
51 37.1 29.9 44.9  
86 57.8 51.8 77.6

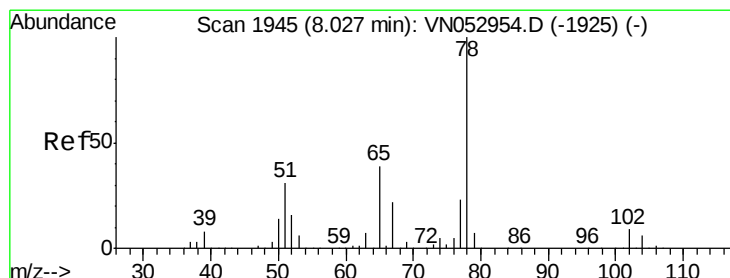
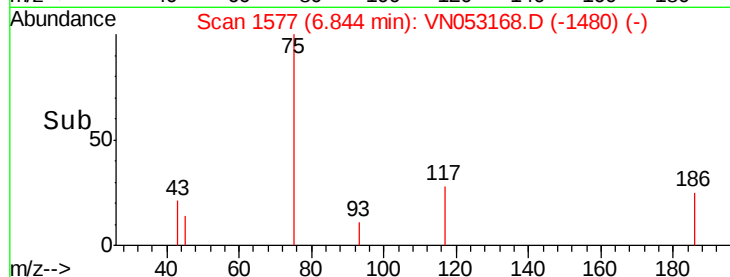
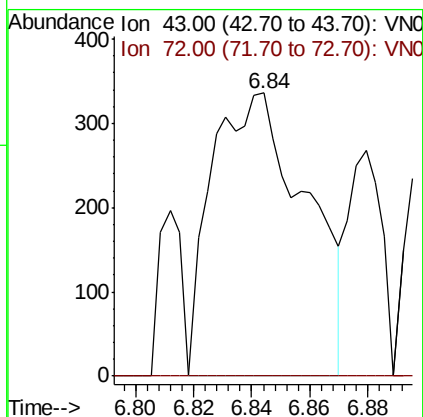
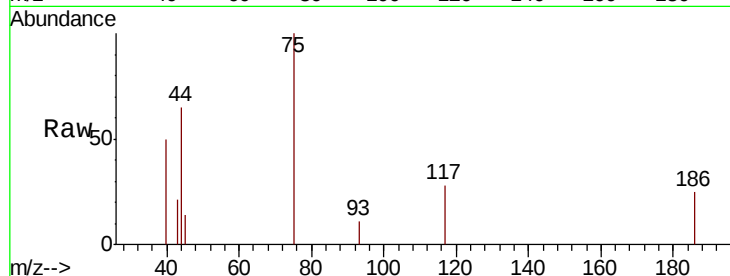




#25  
 2-Butanone  
 Concen: 0.205 ug/l  
 RT: 6.84 min Scan# 1577  
 Delta R.T. 0.01 min  
 Lab File: VN053168.D  
 Acq: 23 Dec 2018 7:53

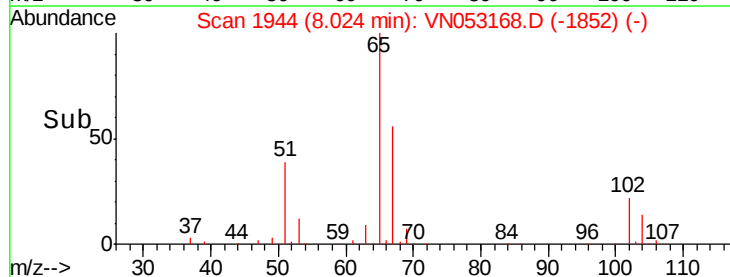
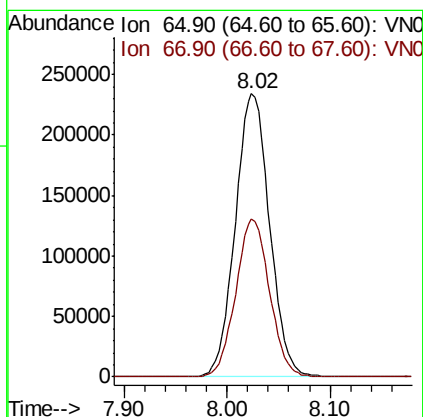
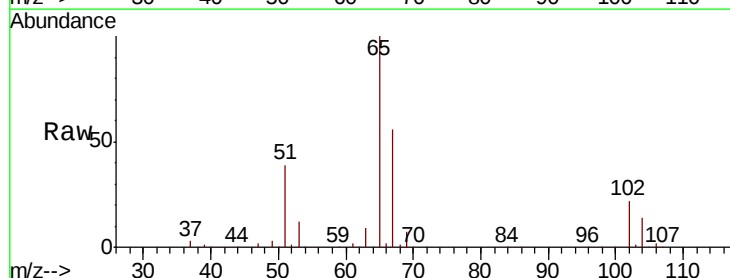
Instrument :  
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 ClientSampleId :  
 S72-0053

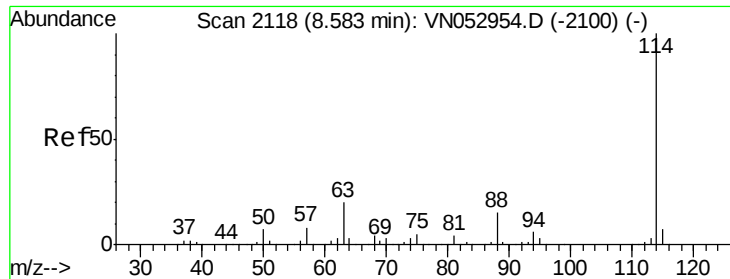
Tot Ion: 43 Resp: 760  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 21.0 31.6#



#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.02 min Scan# 1944  
 Delta R.T. -0.00 min  
 Lab File: VN053168.D  
 Acq: 23 Dec 2018 7:53

Tgt Ion: 65 Resp: 542139  
 Ion Ratio Lower Upper  
 65 100  
 67 55.0 0.0 110.4

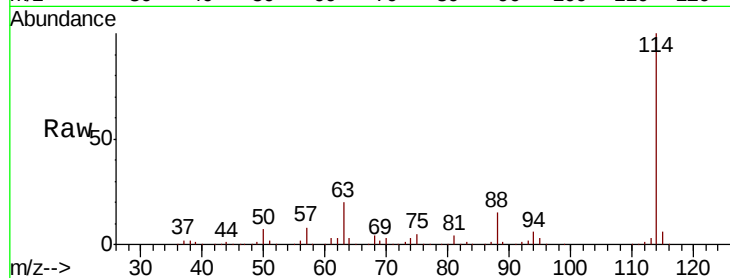




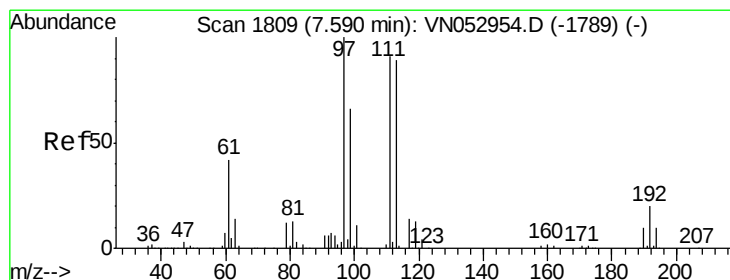
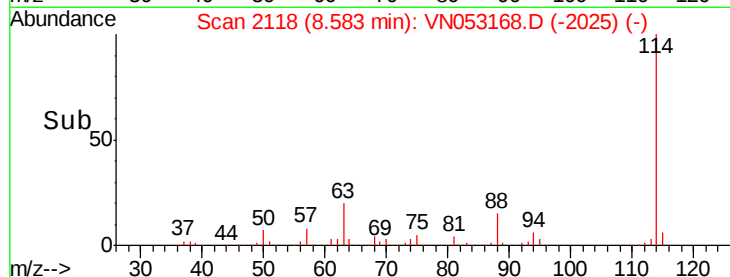
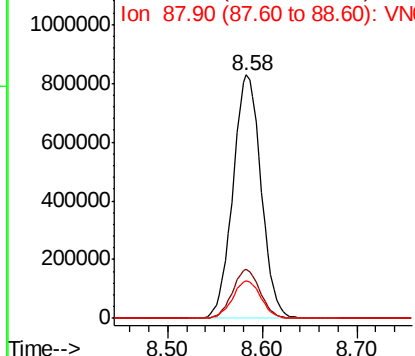
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN053168.D  
 Acq: 23 Dec 2018 7:53

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 S72-0053

Tot Ion:114 Resp: 1710790  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 39.8  
 88 15.4 0.0 31.0

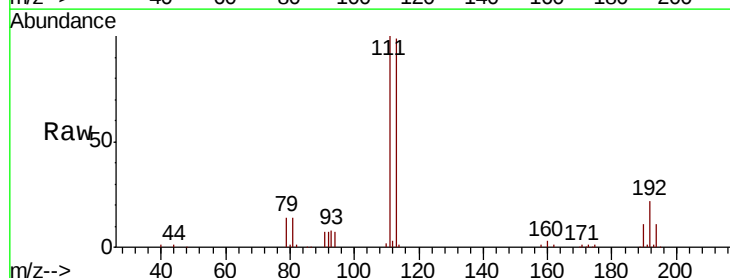


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

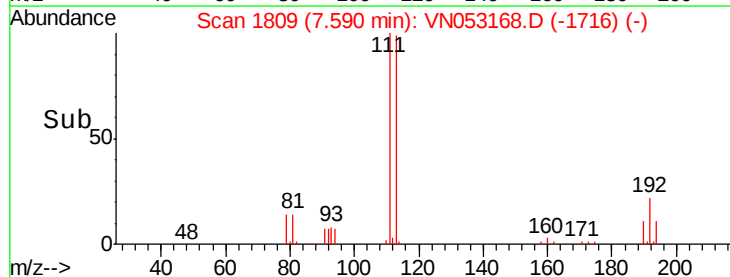
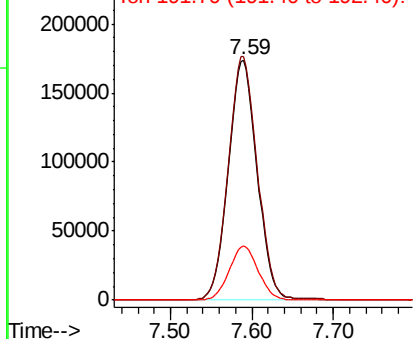


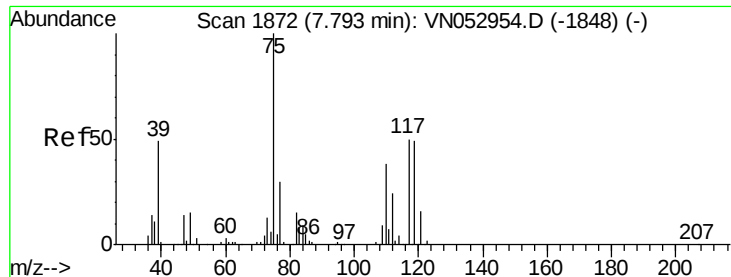
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. 0.00 min  
 Lab File: VN053168.D  
 Acq: 23 Dec 2018 7:53

Tgt Ion:113 Resp: 430287  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 83.0 124.4  
 192 22.6 17.5 26.3



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

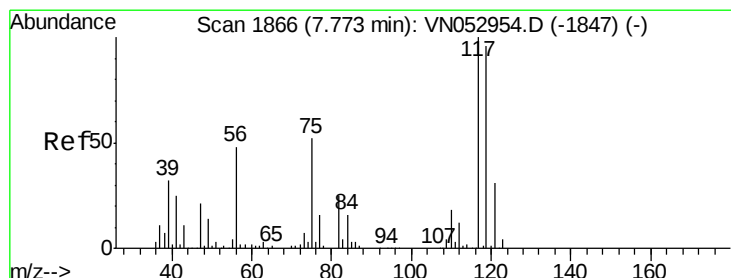
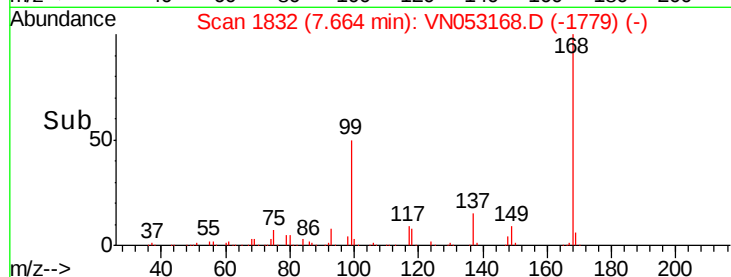
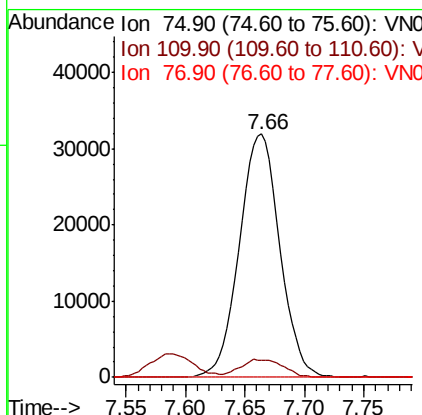
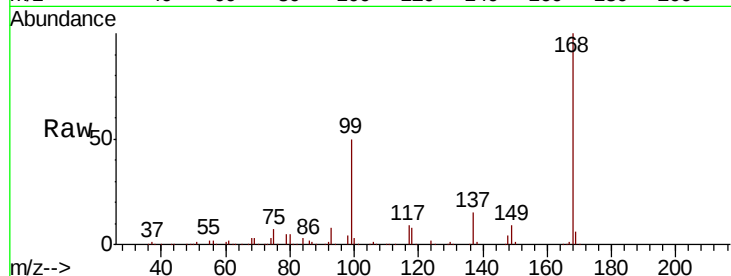




#36  
 1,1-Dichloropropene  
 Concen: 4.571 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN053168.D  
 Acq: 23 Dec 2018 7:53

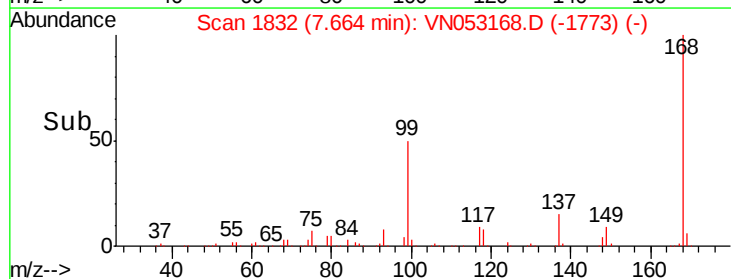
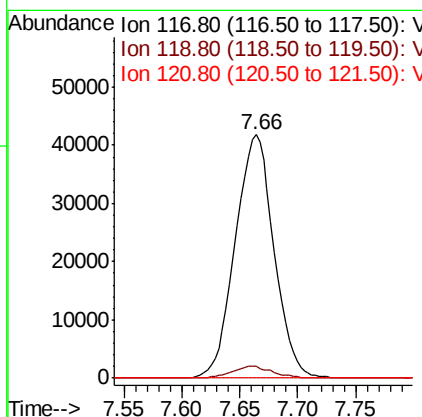
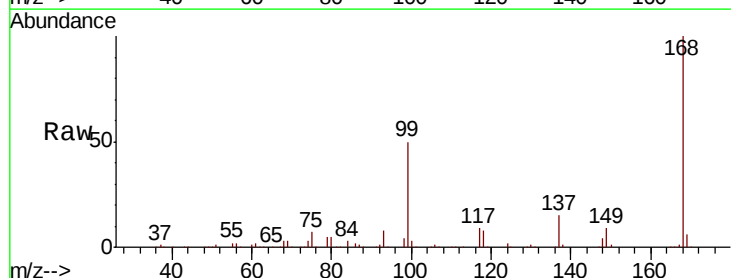
Instrument :  
 MSVOA\_N  
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 S72-0053

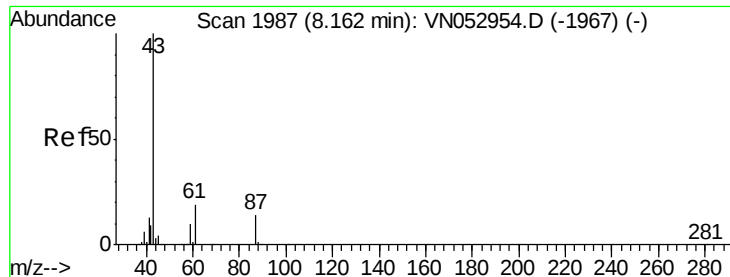
Tot Ion: 75 Resp: 75053  
 Ion Ratio Lower Upper  
 75 100  
 110 7.7 18.2 54.6#  
 77 0.0 24.9 37.3#



#38  
 Carbon Tetrachloride  
 Concen: 6.433 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.11 min  
 Lab File: VN053168.D  
 Acq: 23 Dec 2018 7:53

Tgt Ion: 117 Resp: 96820  
 Ion Ratio Lower Upper  
 117 100  
 119 4.7 77.1 115.7#  
 121 0.0 24.9 37.3#



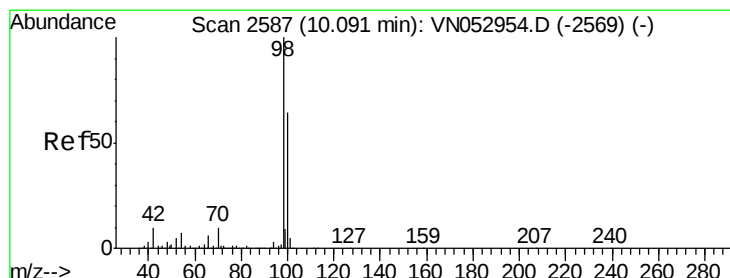
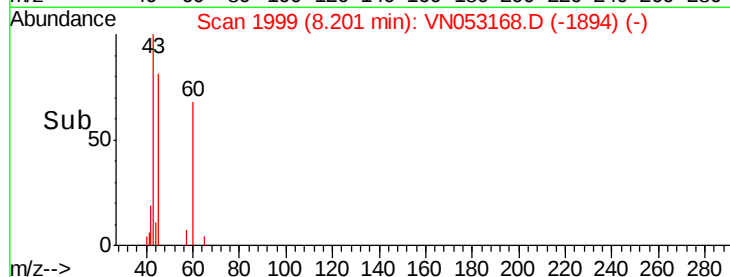
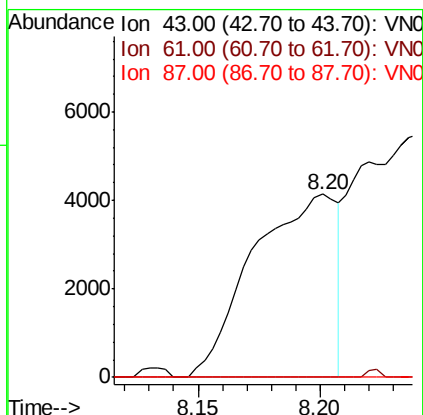
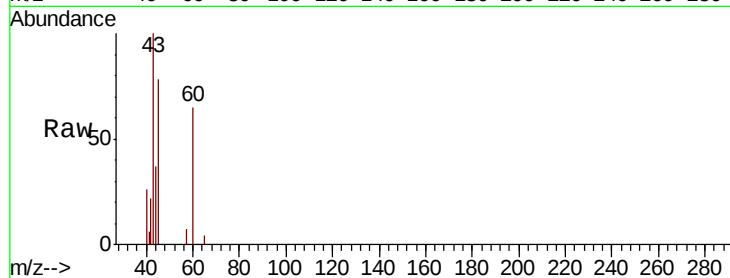


#43

Isopropyl Acetate  
 Concen: Below Cal  
 RT: 8.20 min Scan# 1999  
 Delta R.T. 0.04 min  
 Lab File: VN053168.D  
 Acq: 23 Dec 2018 7:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S72-0053

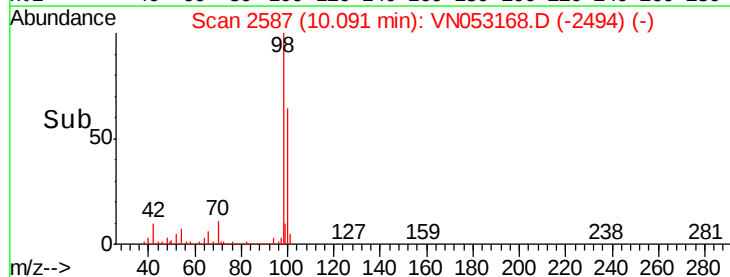
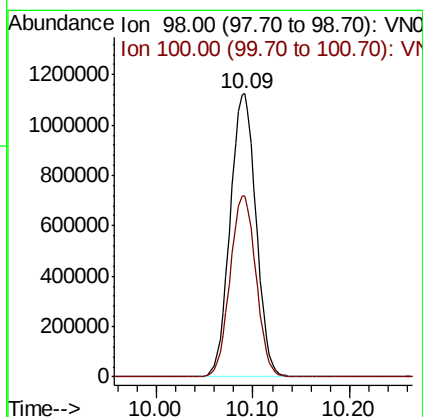
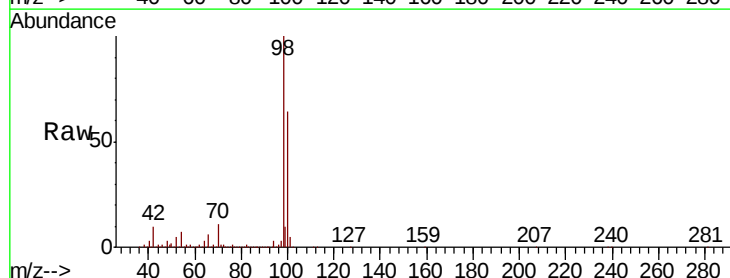
| Tot Ion   | 43   | Resp | 9910 |
|-----------|------|------|------|
| Ion Ratio | 100  |      |      |
| Lower     | 22.9 |      |      |
| Upper     | 34.3 |      |      |
| 61        | 0.0  |      |      |
| 87        | 0.0  |      |      |
|           | 10.6 |      |      |

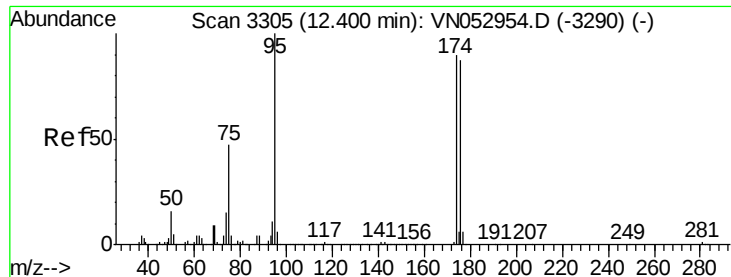


#50

Toluene-d8  
 Concen: N.D. ug/l  
 RT: 10.09 min Scan# 2587  
 Delta R.T. 0.00 min  
 Lab File: VN053168.D  
 Acq: 23 Dec 2018 7:53

| Tgt Ion   | 98   | Resp | 2087484 |
|-----------|------|------|---------|
| Ion Ratio | 100  |      |         |
| Lower     | 51.6 |      |         |
| Upper     | 77.4 |      |         |
| 100       | 64.3 |      |         |





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053168.D

Acq: 23 Dec 2018 7:53

Instrument :

MSVOA\_N

ClientSampled :

S72-0053

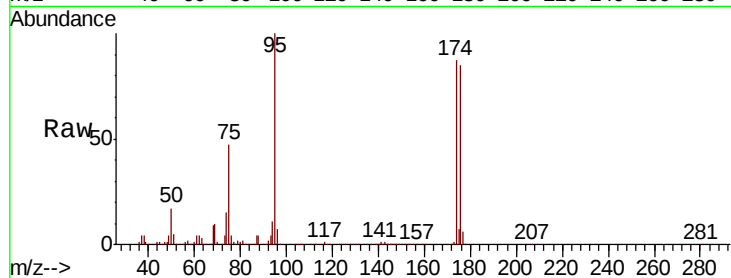
Tot Ion: 95 Resp: 708708

Ion Ratio Lower Upper

95 100

174 88.5 0.0 178.8

176 86.3 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052954.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052954.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052954.D (-3290) (-)

12.40

500000

400000

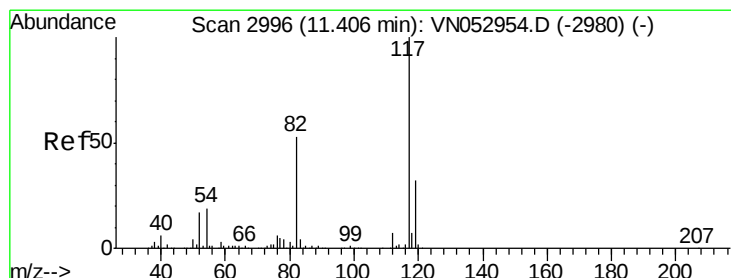
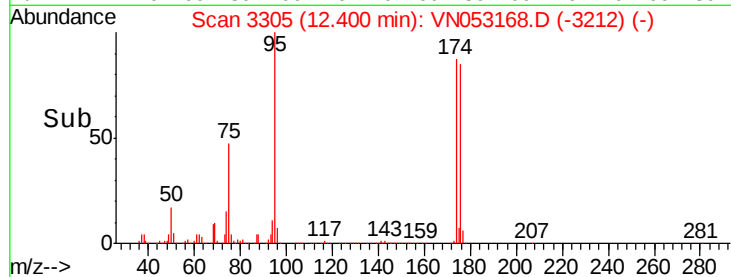
300000

200000

100000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053168.D

Acq: 23 Dec 2018 7:53

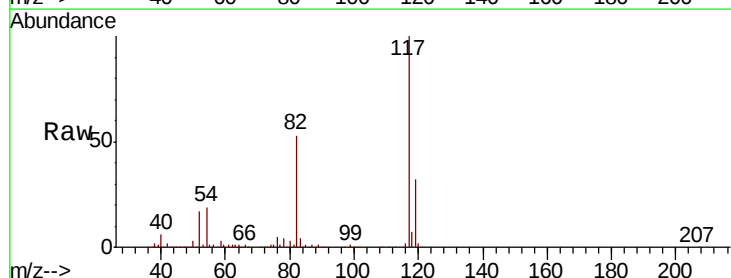
Tgt Ion: 117 Resp: 1552857

Ion Ratio Lower Upper

117 100

82 53.0 42.8 64.2

119 32.0 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN052954.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN052954.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052954.D (-2980) (-)

11.41

1200000

1000000

800000

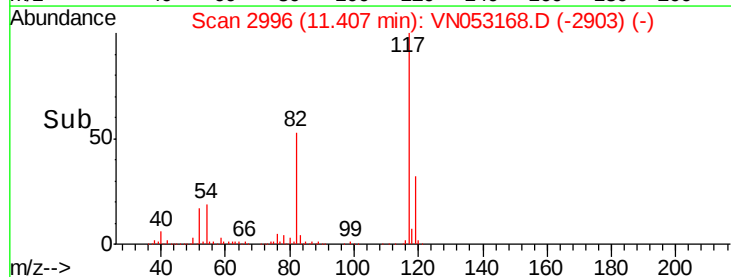
600000

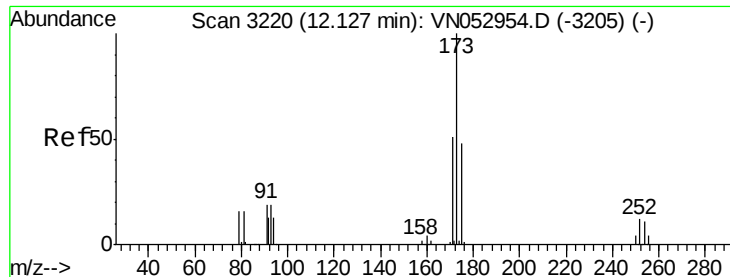
400000

200000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.508 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053168.D

Acq: 23 Dec 2018 7:53

Instrument :

MSVOA\_N

ClientSampleId :

S72-0053

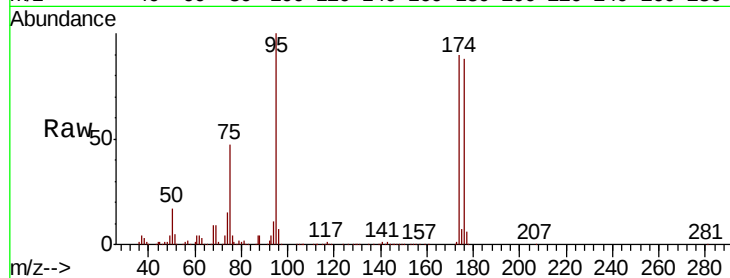
Tot Ion:173 Resp: 4394

Ion Ratio Lower Upper

173 100

175 915.0 24.3 72.9#

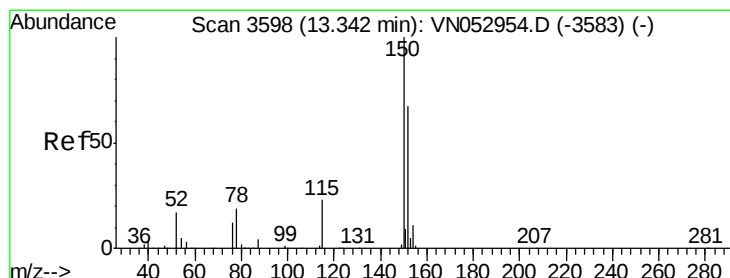
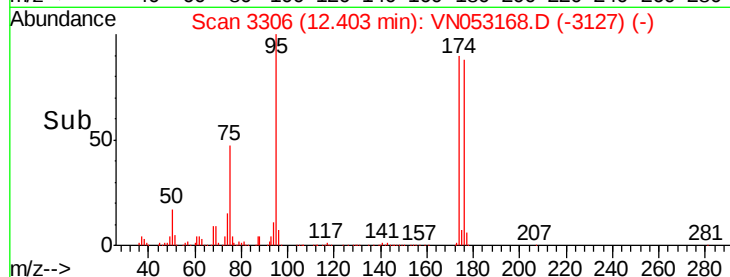
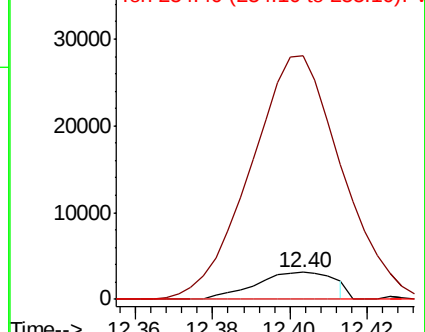
254 0.0 0.1 0.1#



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: VN053168.D

Acq: 23 Dec 2018 7:53

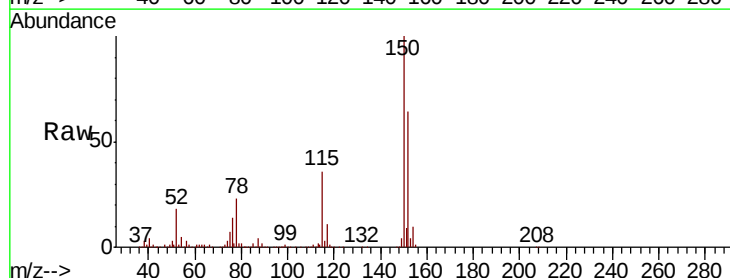
Tgt Ion:152 Resp: 654179

Ion Ratio Lower Upper

152 100

115 56.5 28.3 85.0

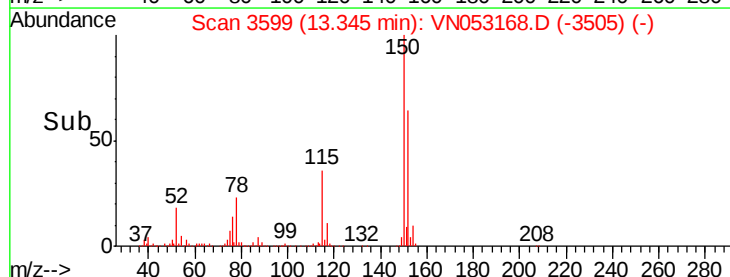
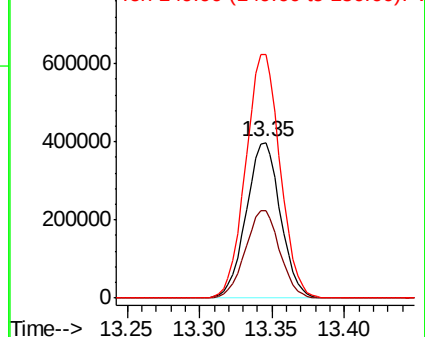
150 157.4 0.0 347.8

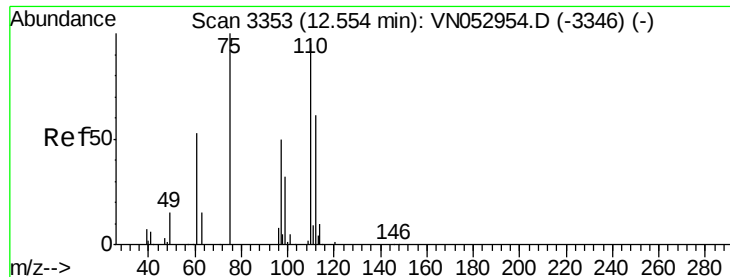


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 29.952 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053168.D

Acq: 23 Dec 2018 7:53

Instrument :

MSVOA\_N

ClientSampled :

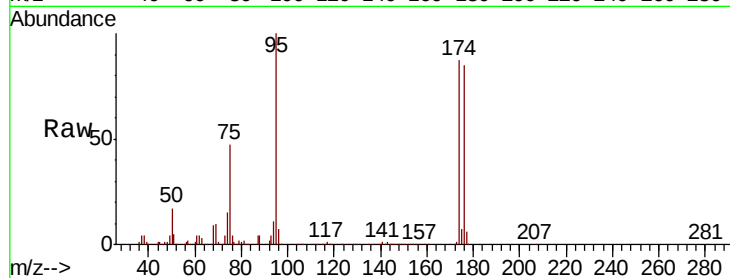
S72-0053

Tot Ion: 75 Resp: 329846

Ion Ratio Lower Upper

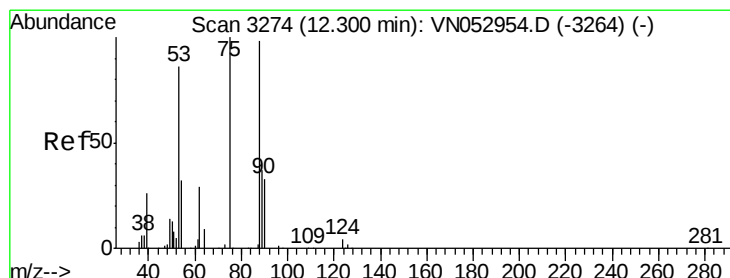
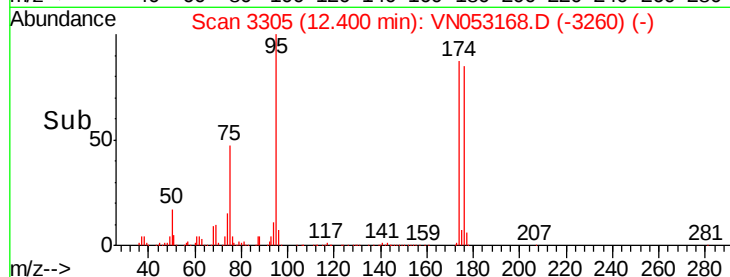
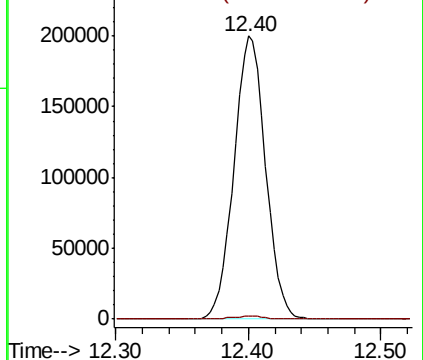
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 96.539 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053168.D

Acq: 23 Dec 2018 7:53

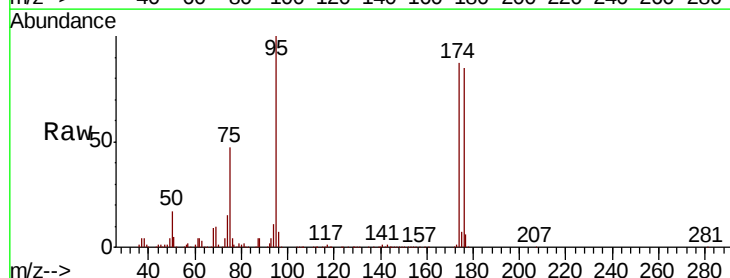
Tgt Ion: 75 Resp: 329846

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

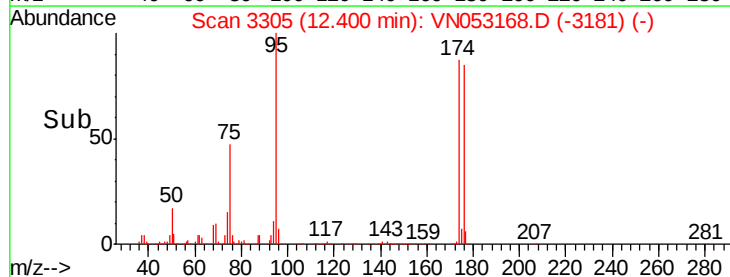
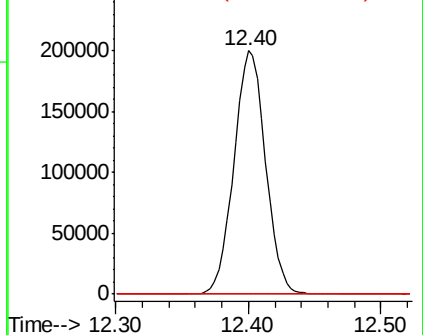
89 0.0 36.1 54.1#

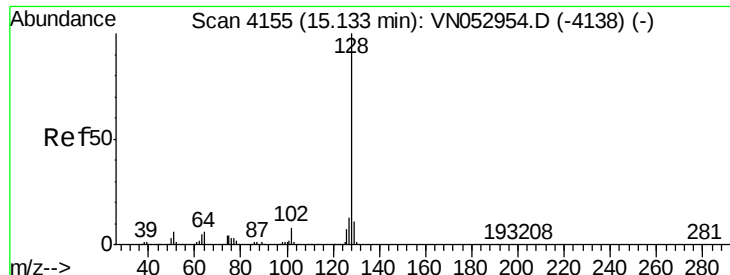


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 1.167 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN053168.D

Acq: 23 Dec 2018 7:53

Instrument :

MSVOA\_N

ClientSampleId :

S72-0053

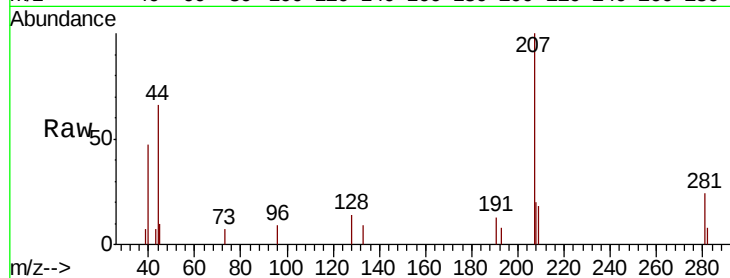
Tot Ion:128 Resp: 537

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.6 13.0#



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

