

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120618\  
 Data File : VN052700.D  
 Acq On : 6 Dec 2018 15:27  
 Operator : MD\SY  
 Sample : J6214-37  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 07 06:39:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 03 03:24:02 2018  
 Response via : Initial Calibration

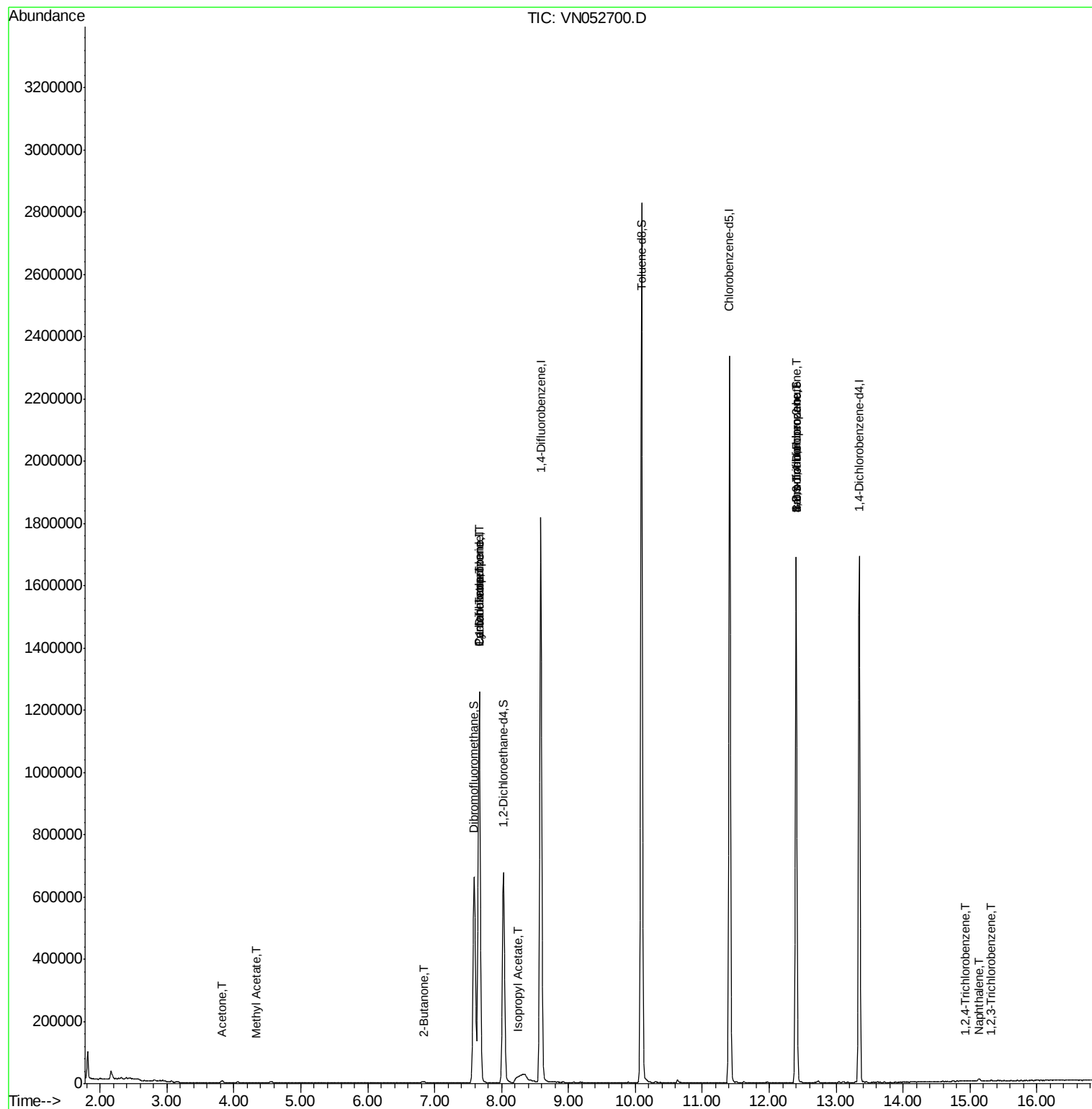
| Internal Standards             | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.67   | 168  | 1080555  | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.59   | 114  | 1681381  | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.41  | 117  | 1426542  | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.35  | 152  | 472373   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.03   | 65   | 574800   | 48.86   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 97.72%  |          |
| 35) Dibromofluoromethane       | 7.59   | 113  | 523299   | 50.48   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 100.96% |          |
| 50) Toluene-d8                 | 10.09  | 98   | 2035604  | 50.45   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 100.90% |          |
| 62) 4-Bromofluorobenzene       | 12.40  | 95   | 600205   | 44.27   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 88.54%  |          |
| Target Compounds               |        |      |          |         |         |          |
|                                |        |      |          |         | Qvalue  |          |
| 16) Acetone                    | 3.83   | 43   | 13116    | 4.227   | ug/l    | 90       |
| 18) Methyl Acetate             | 4.34   | 43   | 1841     | 0.207   | ug/l #  | 73       |
| 25) 2-Butanone                 | 6.85   | 43   | 1527     | 0.347   | ug/l #  | 74       |
| 31) Cyclohexane                | 7.66   | 56   | 19197    | 0.587   | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.67   | 75   | 77006    | 4.850   | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.67   | 117  | 96495    | 6.713   | ug/l #  | 16       |
| 43) Isopropyl Acetate          | 8.24   | 43   | 19167    | 1.169   | ug/l #  | 51       |
| 71) Bromoform                  | 12.40  | 173  | 3700     | 0.546   | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.40  | 75   | 283186   | 38.876  | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.40  | 75   | 283186   | 129.829 | ug/l #  | 11       |
| 93) 1,2,4-Trichlorobenzene     | 14.92  | 180  | 609      | 2.898   | ug/l #  | 55       |
| 95) Naphthalene                | 15.13  | 128  | 6769     | 3.783   | ug/l #  | 93       |
| 96) 1,2,3-Trichlorobenzene     | 15.31  | 180  | 919      | 2.840   | ug/l #  | 80       |

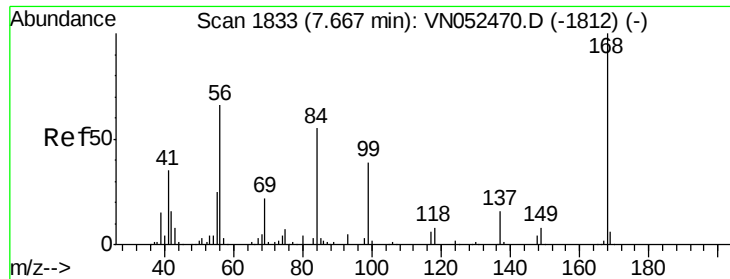
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120618\  
Data File : VN052700.D  
Acq On : 6 Dec 2018 15:27  
Operator : MD\SY  
Sample : J6214-37  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 14 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Dec 07 06:39:53 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 03 03:24:02 2018  
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: VN052700.D

Acq: 6 Dec 2018 15:27

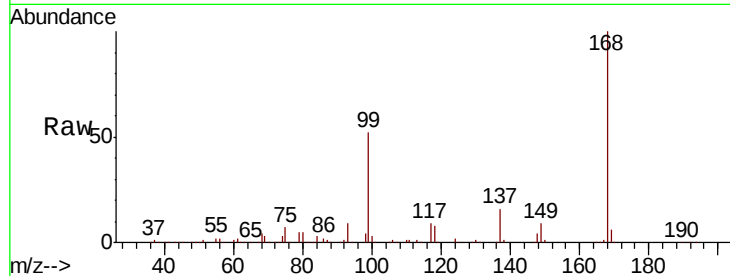
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:168 Resp: 1080555

Ion Ratio Lower Upper

168 100

99 51.5 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

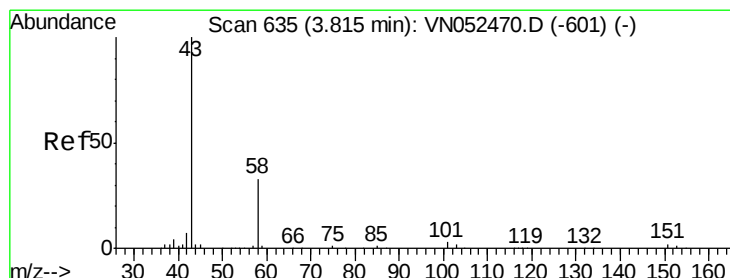
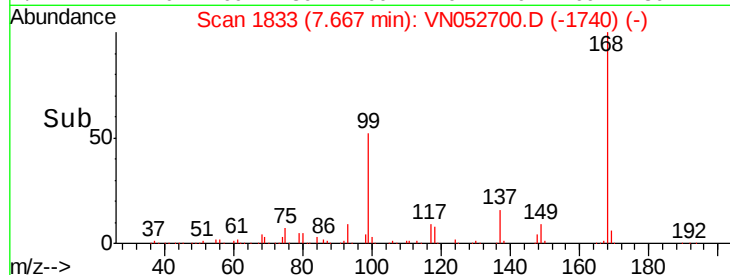
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 4.227 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052700.D

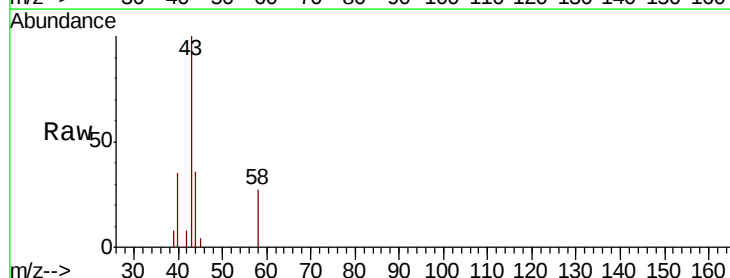
Acq: 6 Dec 2018 15:27

Tgt Ion: 43 Resp: 13116

Ion Ratio Lower Upper

43 100

58 26.7 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.83

5000

4000

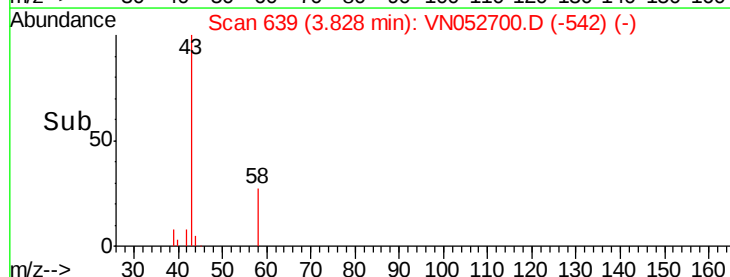
3000

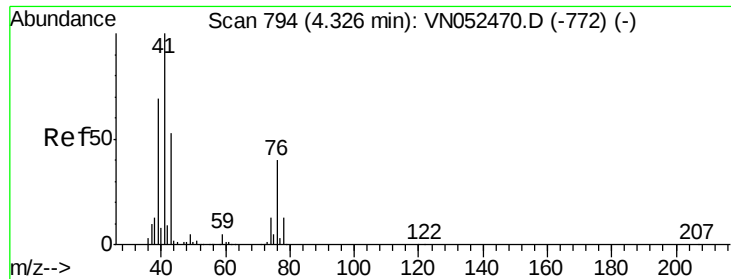
2000

1000

0

Time-->

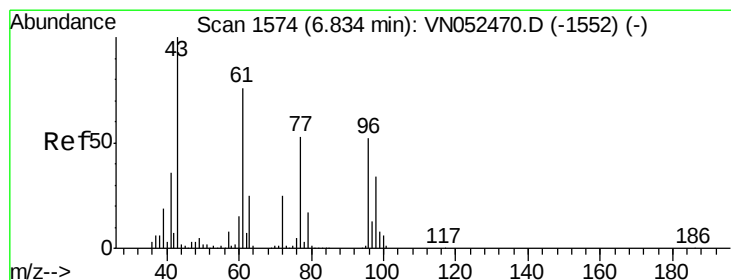
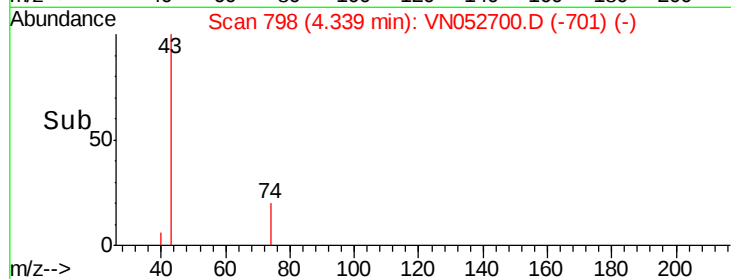
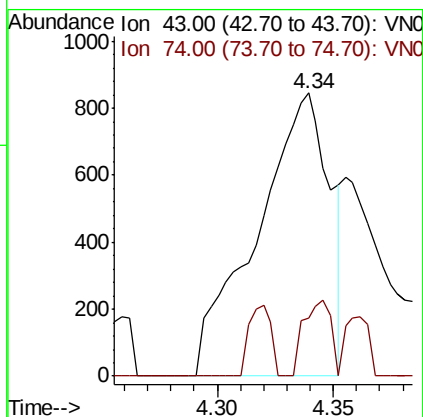
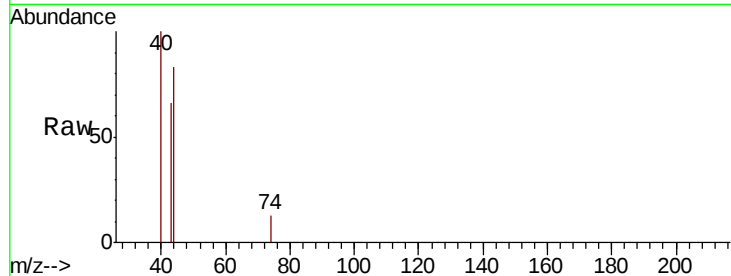




#18  
Methyl Acetate  
Concen: 0.207 ug/l  
RT: 4.34 min Scan# 798  
Delta R.T. 0.01 min  
Lab File: VN052700.D  
Acq: 6 Dec 2018 15:27

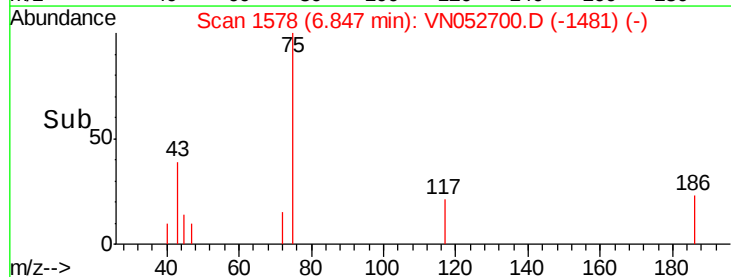
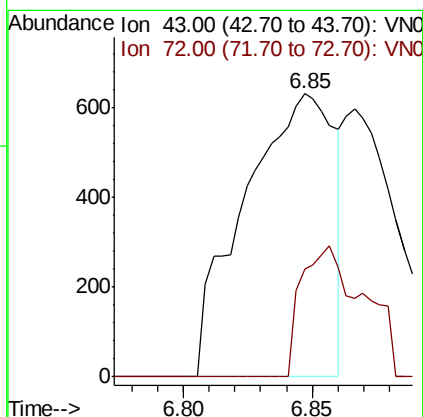
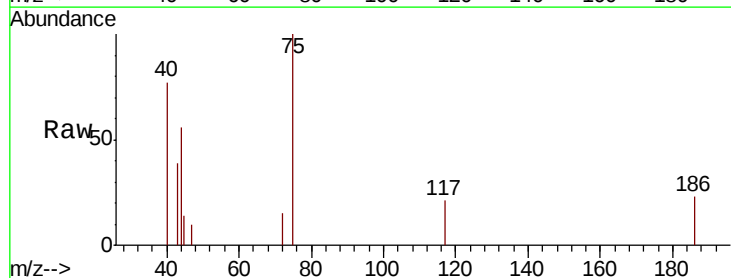
Instrument :  
MSVOA\_N  
ClientSampled :

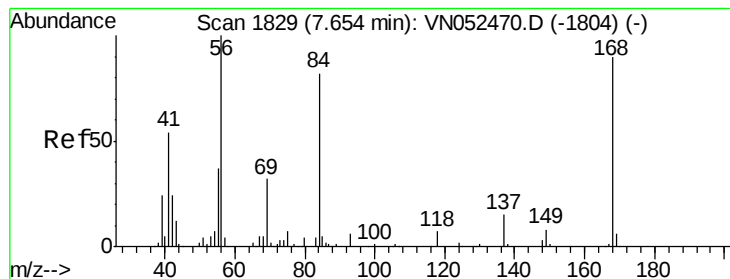
Tot Ion: 43 Resp: 1841  
Ion Ratio Lower Upper  
43 100  
74 10.0 18.6 27.8#



#25  
2-Butanone  
Concen: 0.347 ug/l  
RT: 6.85 min Scan# 1578  
Delta R.T. 0.01 min  
Lab File: VN052700.D  
Acq: 6 Dec 2018 15:27

Tgt Ion: 43 Resp: 1527  
Ion Ratio Lower Upper  
43 100  
72 38.0 20.1 30.1#





#31

Cyclohexane

Concen: 0.587 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN052700.D

Acq: 6 Dec 2018 15:27

Instrument :  
MSVOA\_N  
ClientSampled :

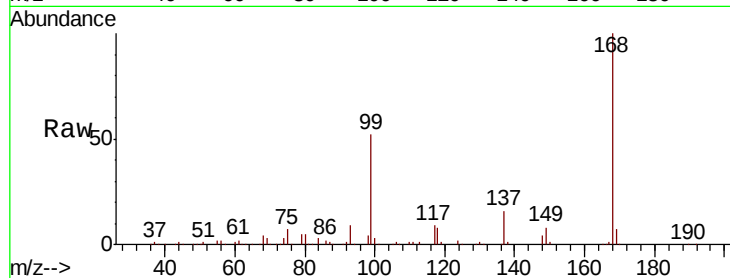
Tot Ion: 56 Resp: 19197

Ion Ratio Lower Upper

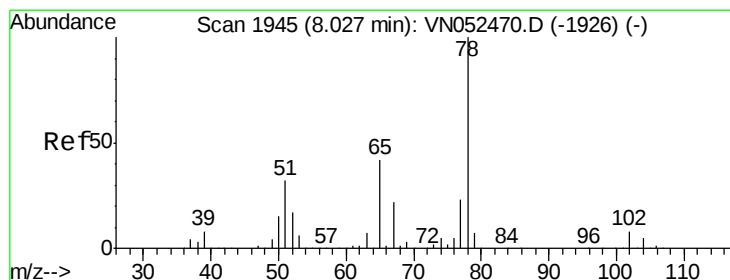
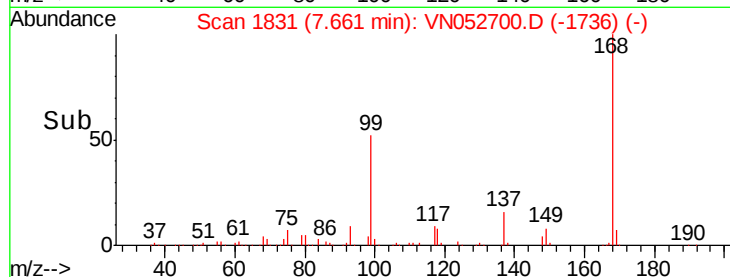
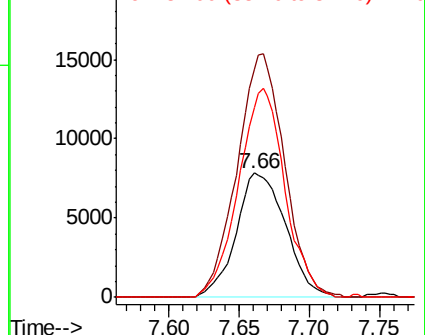
56 100

69 184.4 25.8 38.6#

84 153.1 65.3 97.9#



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: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052700.D

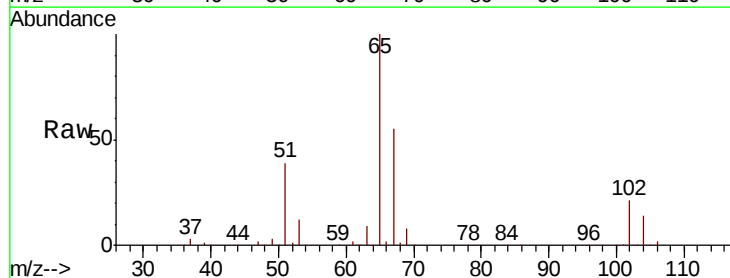
Acq: 6 Dec 2018 15:27

Tgt Ion: 65 Resp: 574800

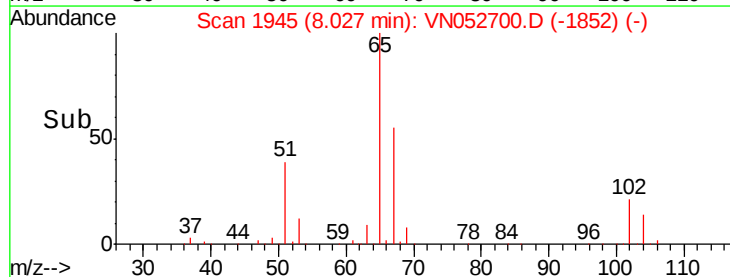
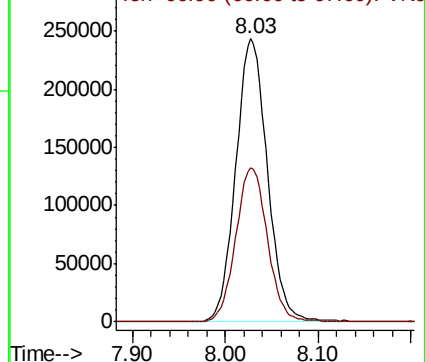
Ion Ratio Lower Upper

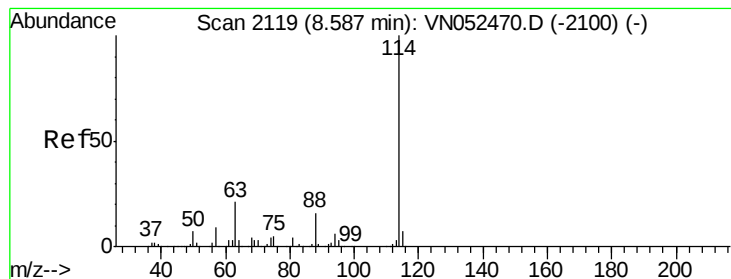
65 100

67 54.8 0.0 109.8



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: VN052700.D

Acq: 6 Dec 2018 15:27

Instrument :

MSVOA\_N

ClientSampleId :

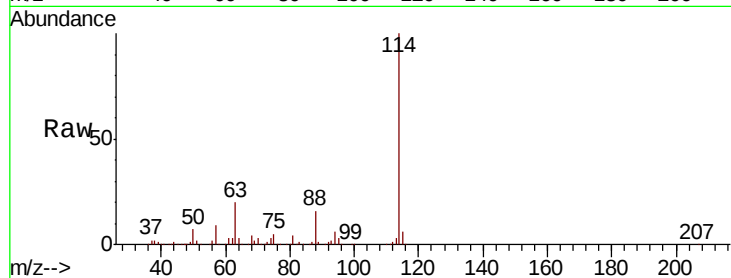
Tot Ion:114 Resp: 1681381

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.8

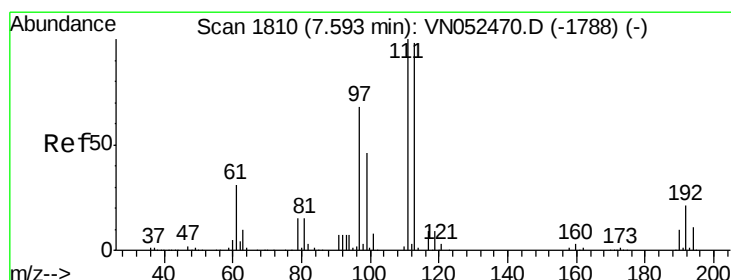
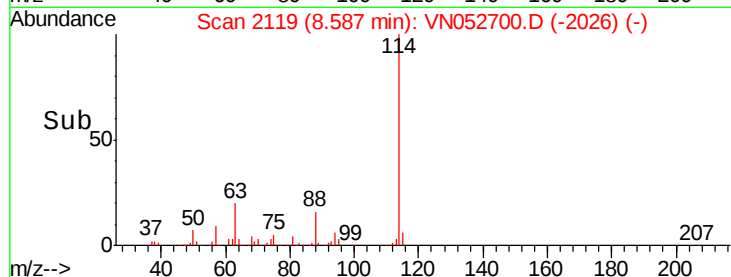
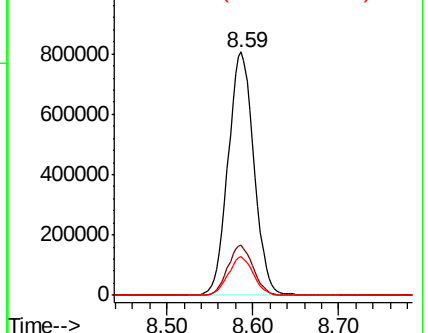
88 15.7 0.0 31.6



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: VN052700.D

Acq: 6 Dec 2018 15:27

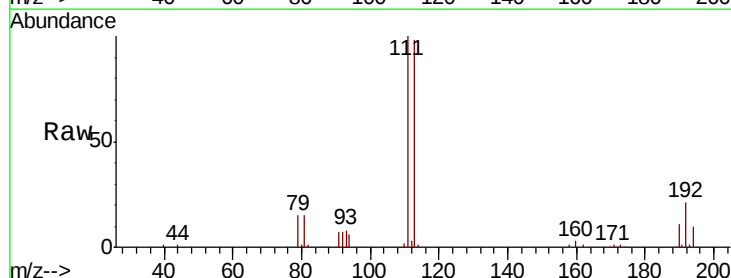
Tgt Ion:113 Resp: 523299

Ion Ratio Lower Upper

113 100

111 102.1 82.0 123.0

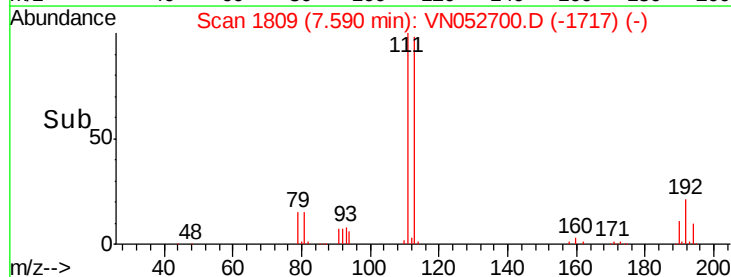
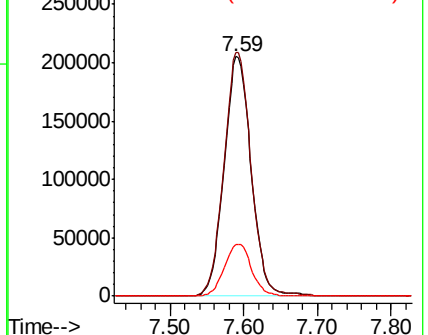
192 21.8 17.0 25.6

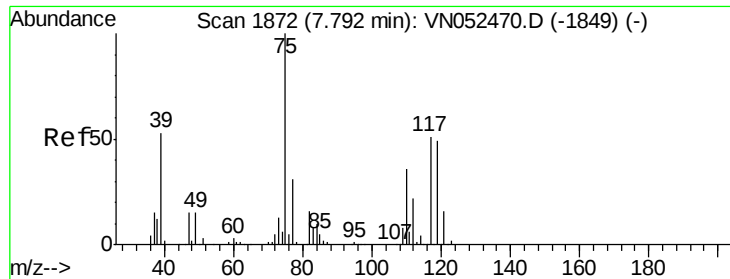


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

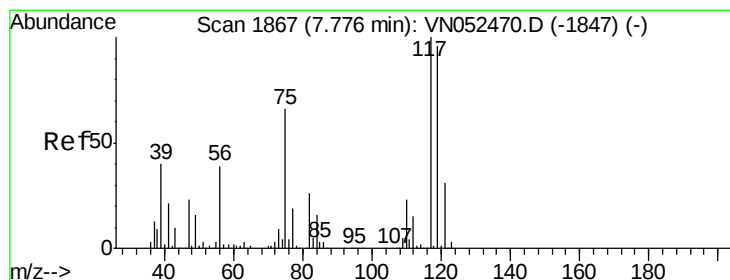
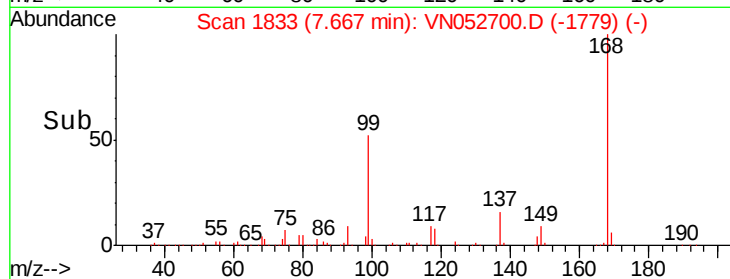
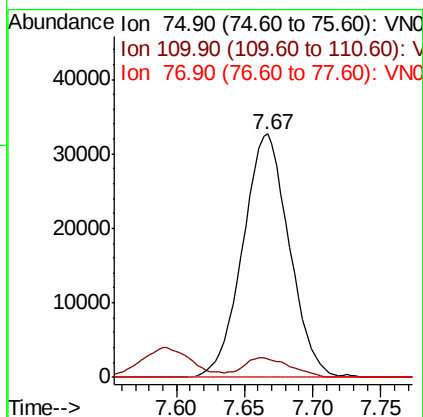
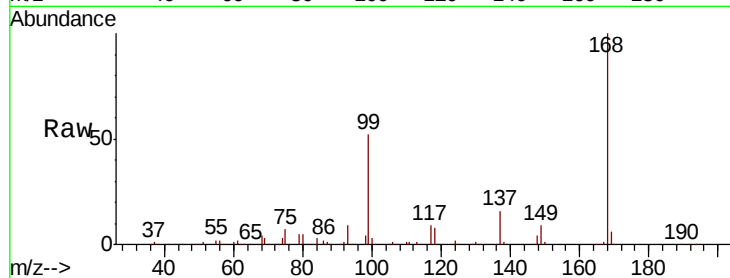




#36  
 1,1-Dichloropropene  
 Concen: 4.850 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.13 min  
 Lab File: VN052700.D  
 Acq: 6 Dec 2018 15:27

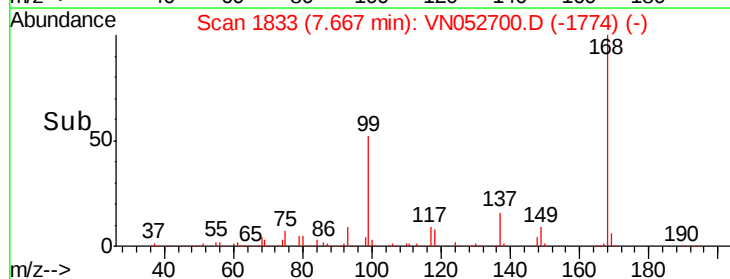
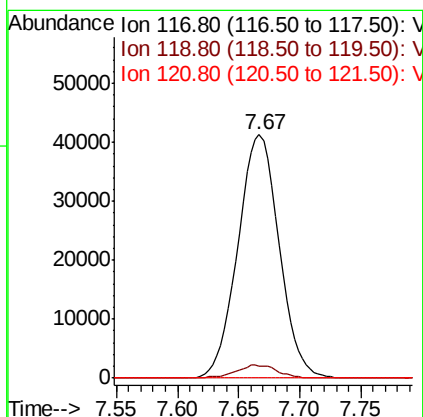
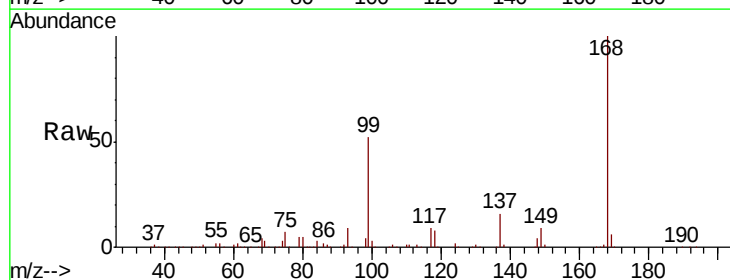
Instrument :  
 MSVOA\_N  
 ClientSampled :

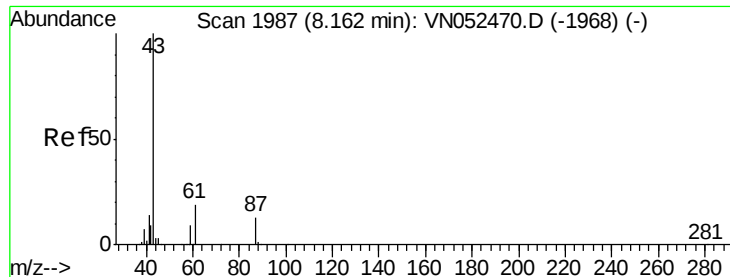
Tot Ion: 75 Resp: 77006  
 Ion Ratio Lower Upper  
 75 100  
 110 8.0 17.5 52.6#  
 77 0.0 24.5 36.7#



#38  
 Carbon Tetrachloride  
 Concen: 6.713 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.11 min  
 Lab File: VN052700.D  
 Acq: 6 Dec 2018 15:27

Tgt Ion: 117 Resp: 96495  
 Ion Ratio Lower Upper  
 117 100  
 119 5.0 76.8 115.2#  
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 1.169 ug/l

RT: 8.24 min Scan# 2011

Delta R.T. 0.08 min

Lab File: VN052700.D

Acq: 6 Dec 2018 15:27

Instrument :

MSVOA\_N

ClientSampleId :

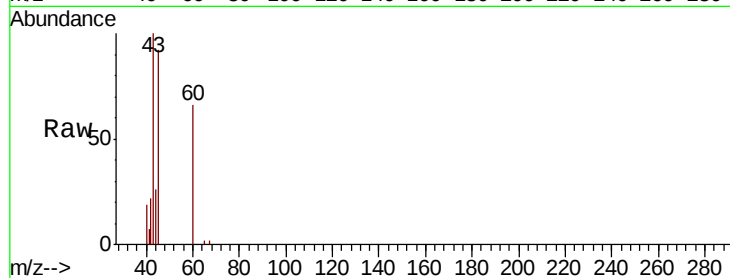
Tot Ion: 43 Resp: 19167

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

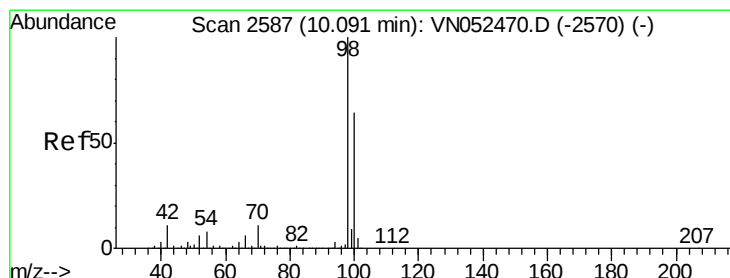
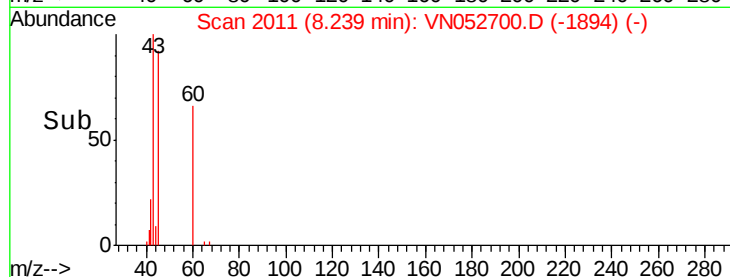
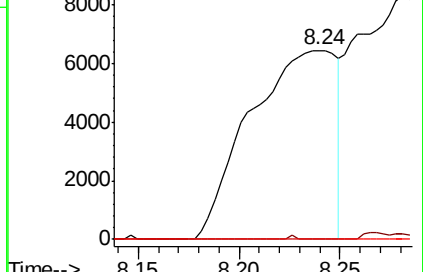
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN052470.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN052470.D (-1968) (-)



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052700.D

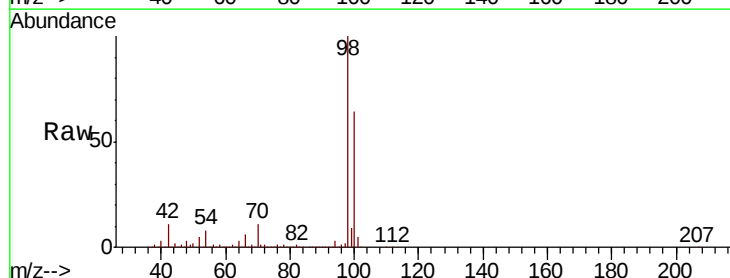
Acq: 6 Dec 2018 15:27

Tgt Ion: 98 Resp: 2035604

Ion Ratio Lower Upper

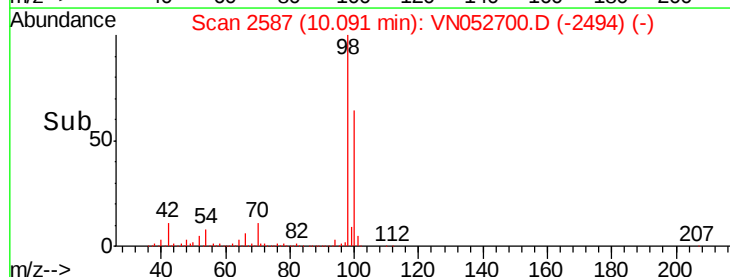
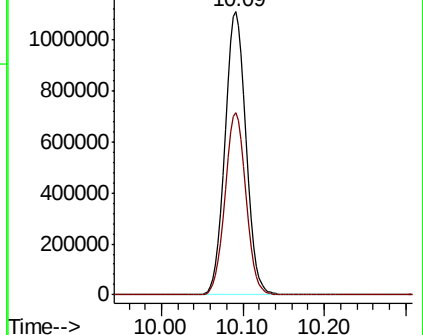
98 100

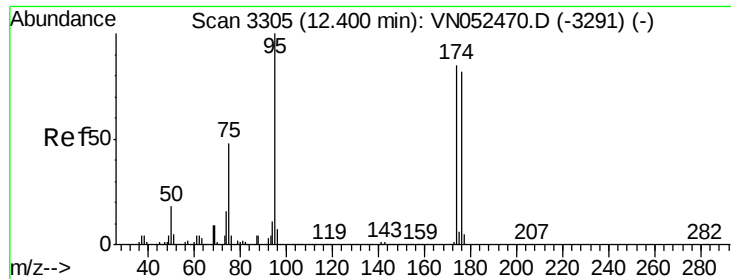
100 64.1 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN052470.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052470.D (-2570) (-)

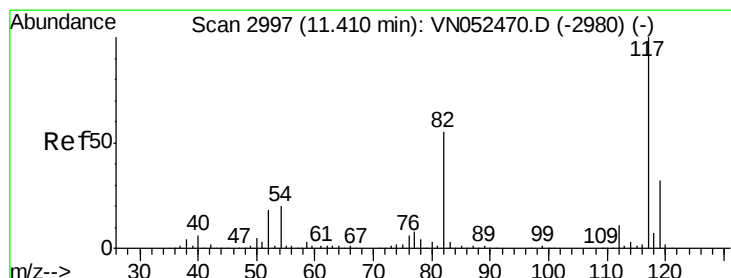
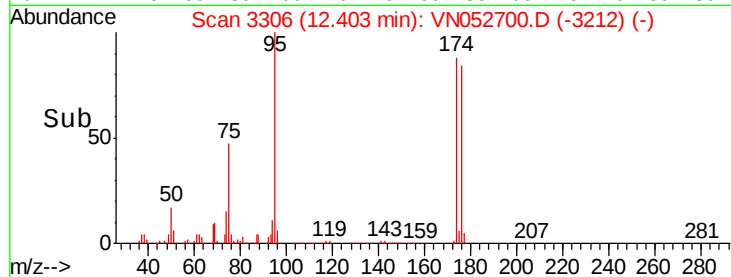
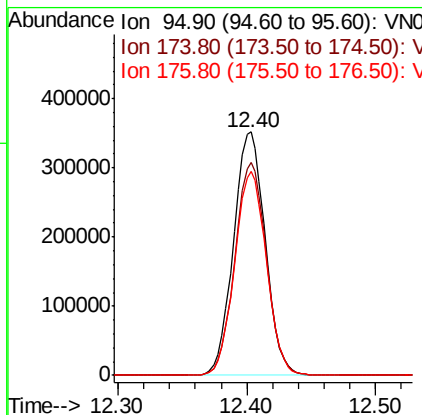
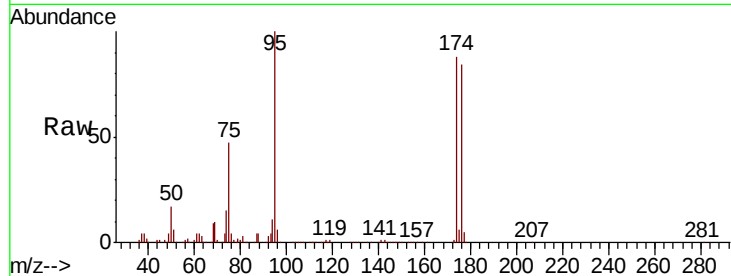




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN052700.D  
Acq: 6 Dec 2018 15:27

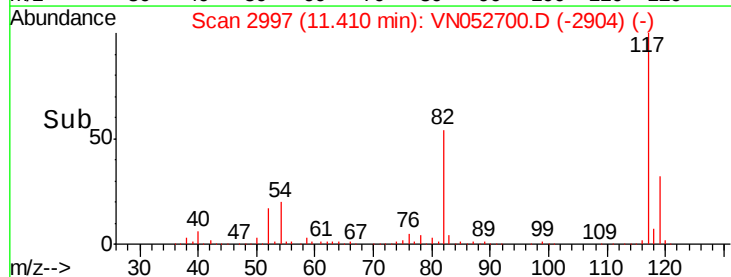
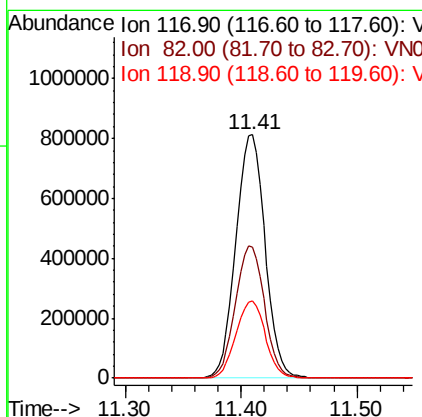
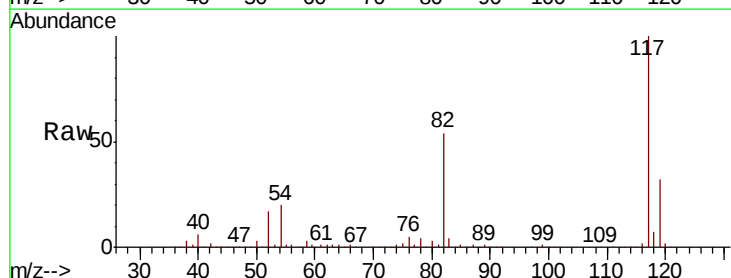
Instrument :  
MSVOA\_N  
ClientSampleId :

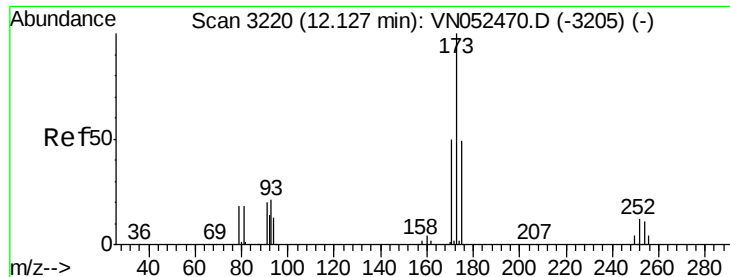
Tot Ion: 95 Resp: 600205  
Ion Ratio Lower Upper  
95 100  
174 87.0 0.0 173.0  
176 84.0 0.0 166.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. -0.00 min  
Lab File: VN052700.D  
Acq: 6 Dec 2018 15:27

Tgt Ion: 117 Resp: 1426542  
Ion Ratio Lower Upper  
117 100  
82 53.5 43.6 65.4  
119 31.6 25.4 38.2





#71

Bromoform

Concen: 0.546 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052700.D

Acq: 6 Dec 2018 15:27

Instrument :

MSVOA\_N

ClientSampleId :

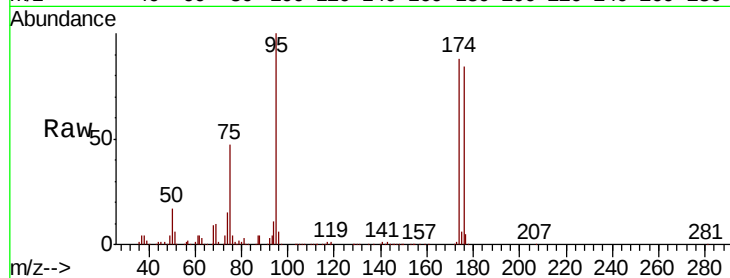
Tot Ion:173 Resp: 3700

Ion Ratio Lower Upper

173 100

175 847.3 24.4 73.2#

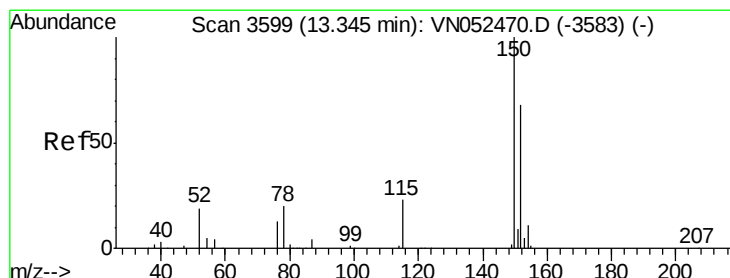
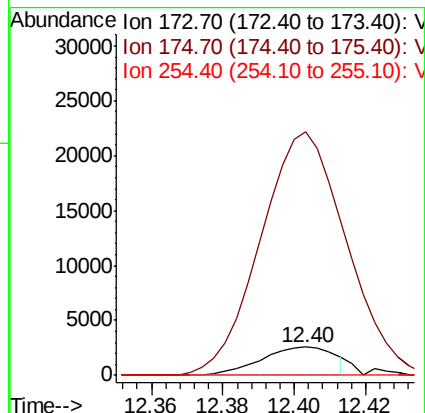
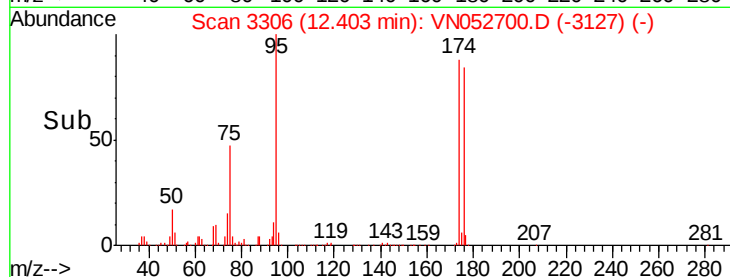
254 0.0 0.1 0.1#



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: VN052700.D

Acq: 6 Dec 2018 15:27

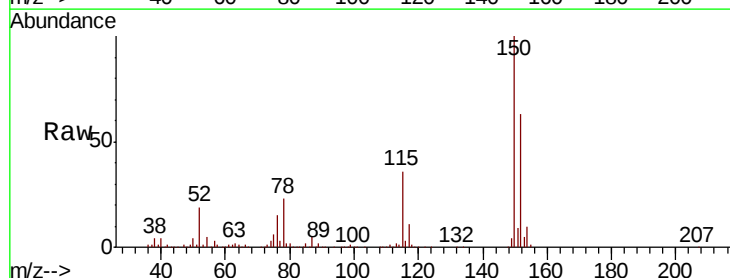
Tgt Ion:152 Resp: 472373

Ion Ratio Lower Upper

152 100

115 56.8 28.4 85.2

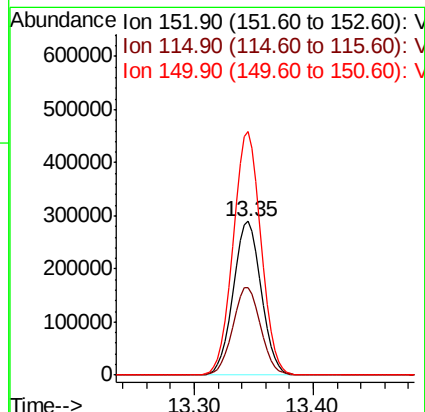
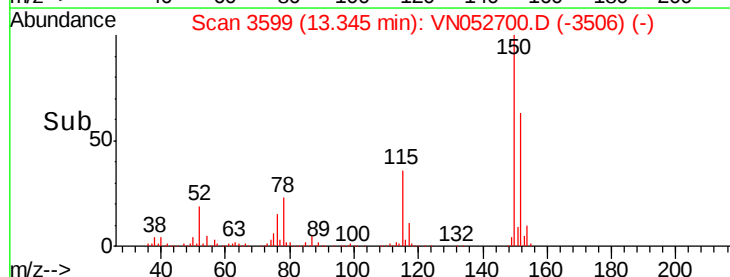
150 157.1 0.0 346.0

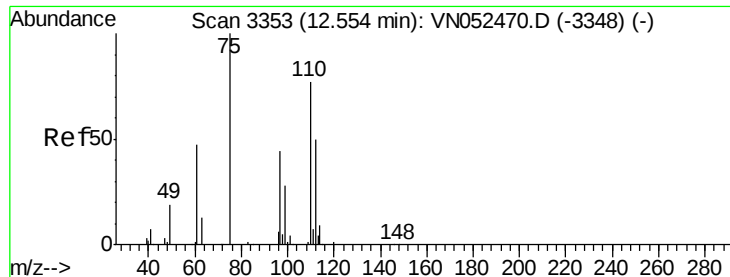


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 38.876 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052700.D

Acq: 6 Dec 2018 15:27

Instrument :

MSVOA\_N

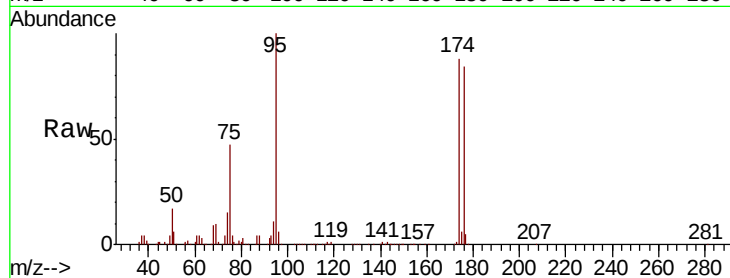
ClientSampleId :

Tot Ion: 75 Resp: 283186

Ion Ratio Lower Upper

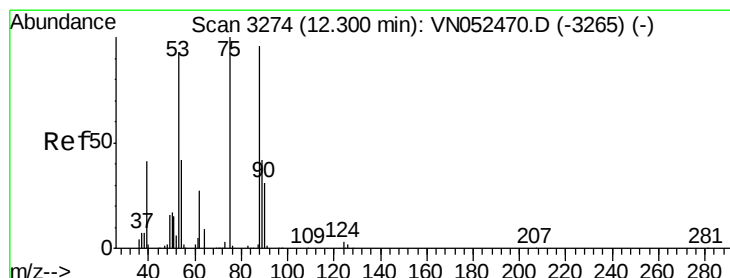
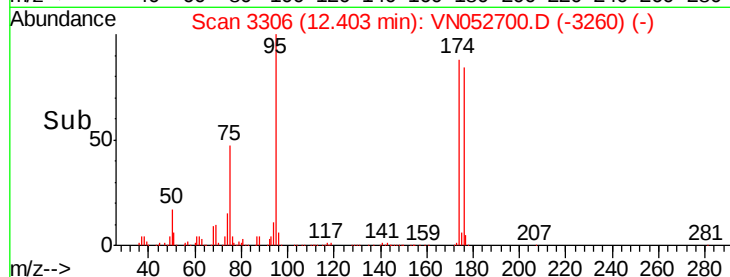
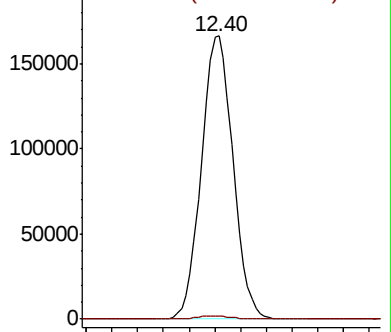
75 100

77 1.2 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: 129.829 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052700.D

Acq: 6 Dec 2018 15:27

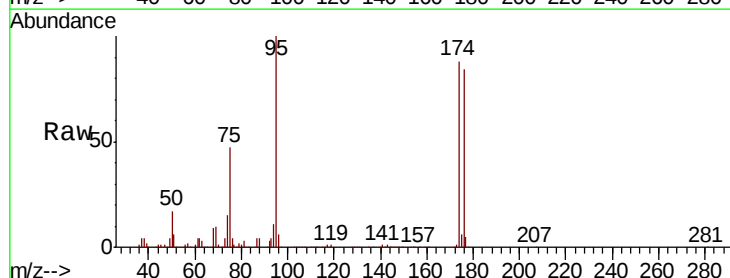
Tgt Ion: 75 Resp: 283186

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

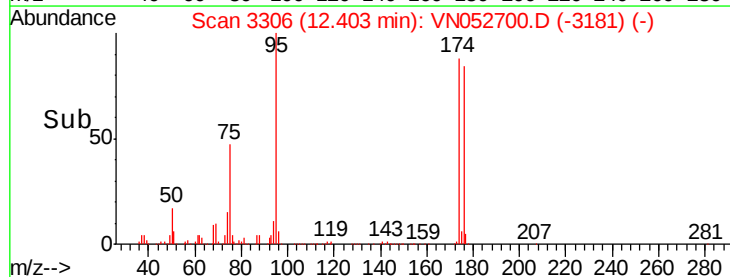
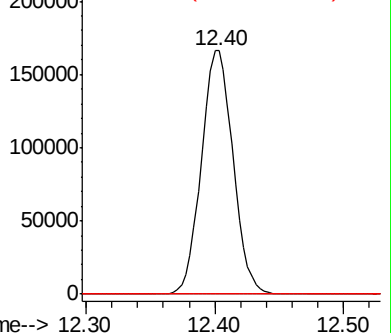
89 0.0 35.4 53.2#

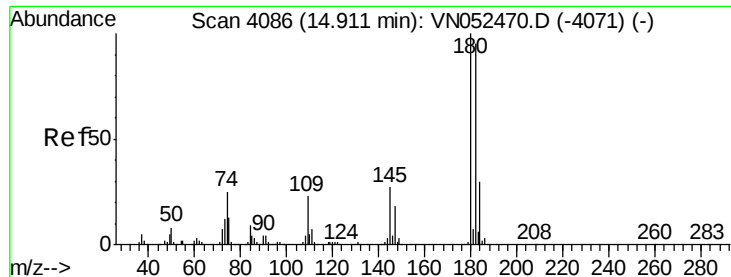


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

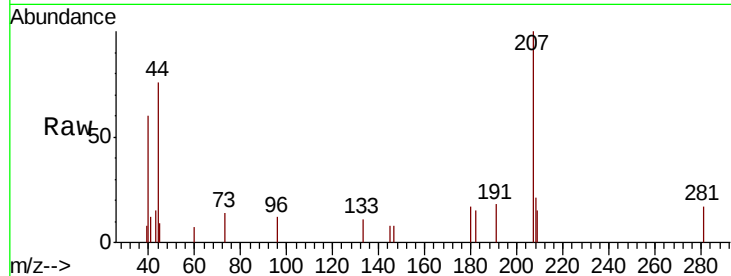




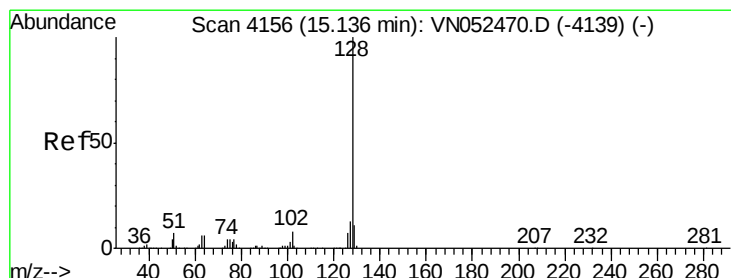
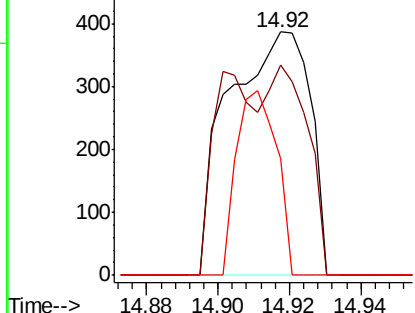
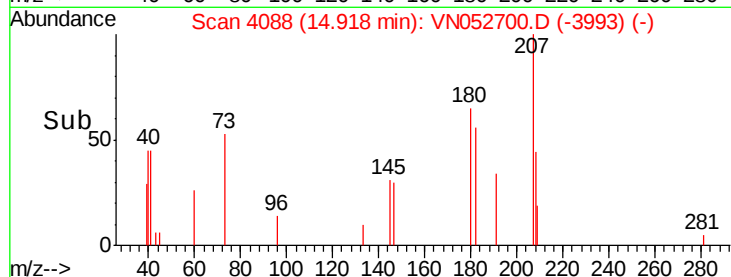
#93  
 1,2,4-Trichlorobenzene  
 Concen: 2.898 ug/l  
 RT: 14.92 min Scan# 4088  
 Delta R.T. 0.01 min  
 Lab File: VN052700.D  
 Acq: 6 Dec 2018 15:27

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion:180 Resp: 609  
 Ion Ratio Lower Upper  
 180 100  
 182 44.5 47.8 143.4#  
 145 37.6 14.1 42.3

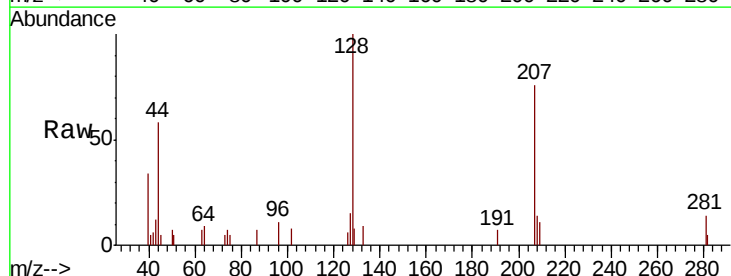


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

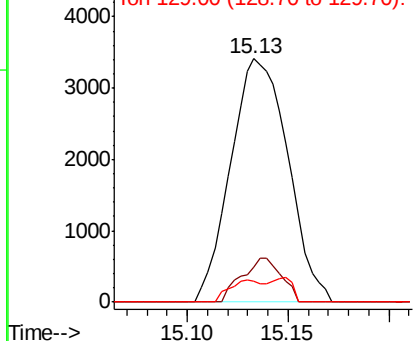
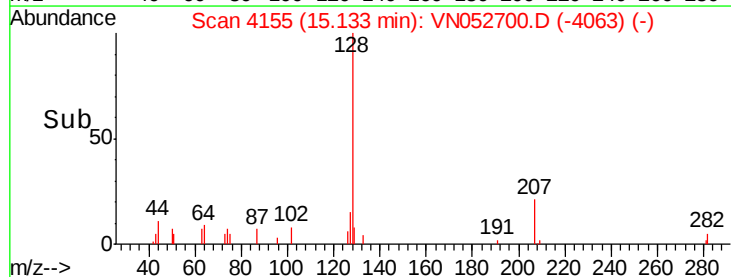


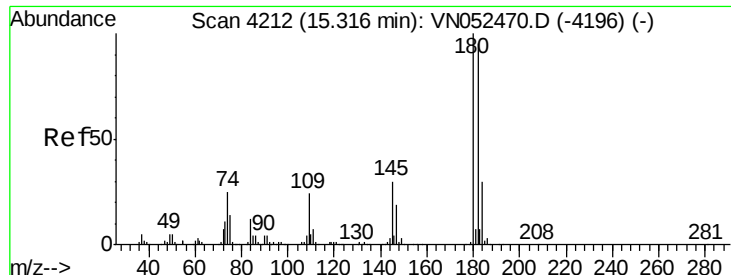
#95  
 Naphthalene  
 Concen: 3.783 ug/l  
 RT: 15.13 min Scan# 4155  
 Delta R.T. -0.00 min  
 Lab File: VN052700.D  
 Acq: 6 Dec 2018 15:27

Tgt Ion:128 Resp: 6769  
 Ion Ratio Lower Upper  
 128 100  
 127 12.5 10.2 15.2  
 129 5.6 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

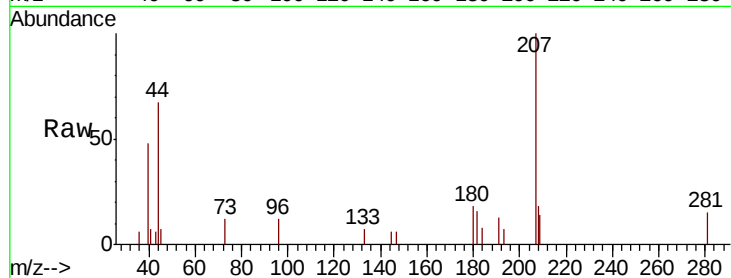




#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.840 ug/l  
 RT: 15.31 min Scan# 4211  
 Delta R.T. -0.00 min  
 Lab File: VN052700.D  
 Acq: 6 Dec 2018 15:27

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 79.5  | 47.8  | 143.3 |
| 145     | 13.4  | 15.2  | 45.5# |



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

