

Data File : VN053381.D  
Acq On : 14 Jan 2019 10:37  
Operator : JC/SP  
Sample : VN0114MBL01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 4 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0114MBL01

Quant Time: Jan 14 22:50:47 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N010519W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jan 07 09:34:27 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 960008   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1478541  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1359585  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 534030   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 466827   | 46.74 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.48%  |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 423959   | 50.37 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.74% |      |
| 50) Toluene-d8              | 10.09  | 98  | 1832956  | 50.48 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.96% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 602930   | 47.43 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.86%  |      |

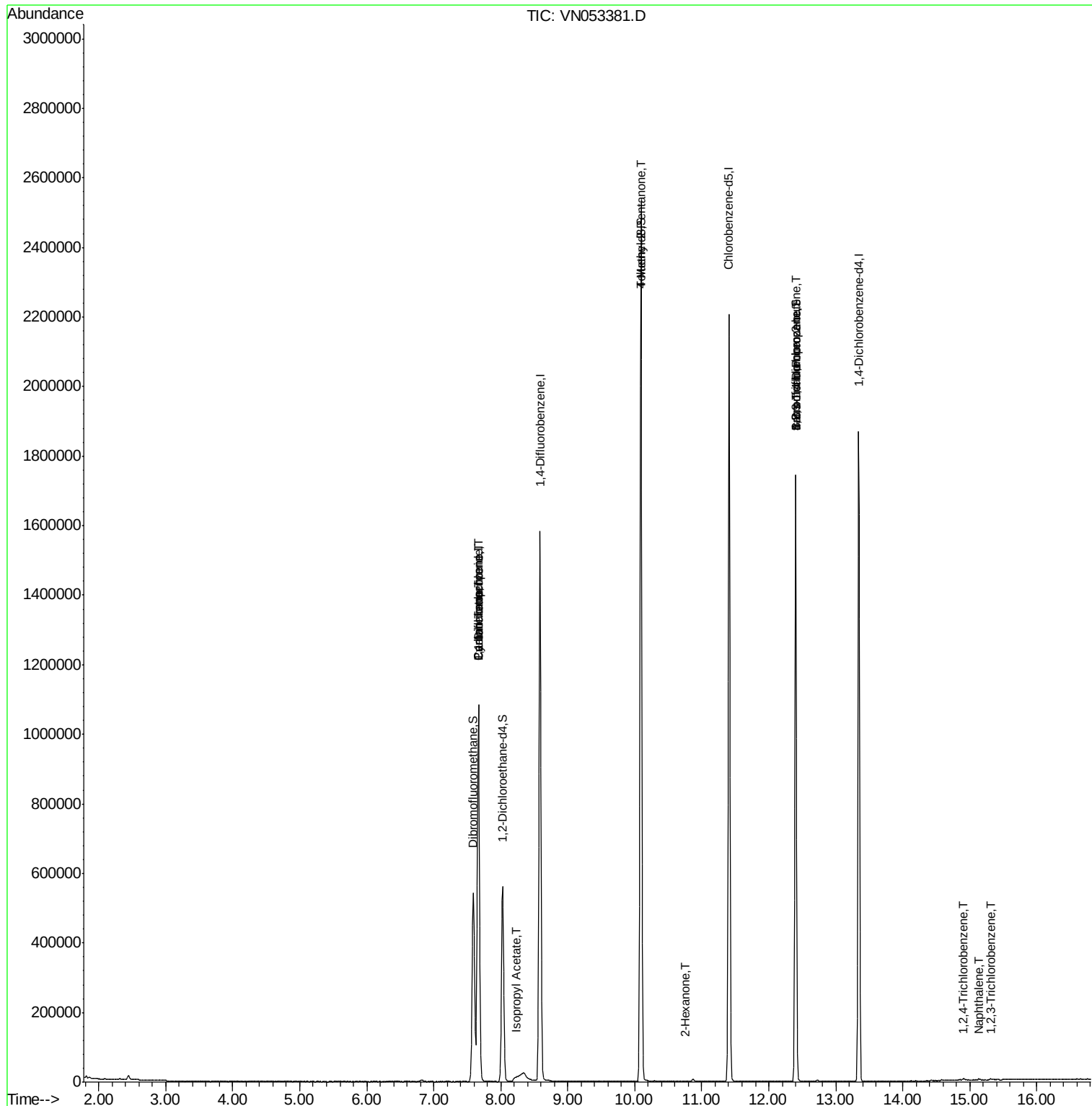
|                                |       |     |        |           |        |     |
|--------------------------------|-------|-----|--------|-----------|--------|-----|
| Target Compounds               |       |     |        | Qvalue    |        |     |
| 16) Acetone                    | 3.82  | 43  | 777    | Below Cal | #      | 40  |
| 31) Cyclohexane                | 7.67  | 56  | 15081  | 0.693     | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 7.67  | 75  | 62416  | 4.522     | ug/l # | 48  |
| 38) Carbon Tetrachloride       | 7.67  | 117 | 83271  | 6.536     | ug/l # | 16  |
| 43) Isopropyl Acetate          | 8.23  | 43  | 10967  | 0.620     | ug/l # | 52  |
| 51) 4-Methyl-2-Pentanone       | 10.09 | 43  | 6513   | 0.732     | ug/l # | 1   |
| 59) 2-Hexanone                 | 10.75 | 43  | 1230   | 0.202     | ug/l # | 44  |
| 71) Bromoform                  | 12.40 | 173 | 4266   | 0.584     | ug/l # | 1   |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 279087 | 35.830    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 279087 | 105.419   | ug/l # | 14  |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180 | 1295   | 0.235     | ug/l   | 95  |
| 95) Naphthalene                | 15.13 | 128 | 2967   | 0.316     | ug/l # | 88  |
| 96) 1,2,3-Trichlorobenzene     | 15.32 | 180 | 1743   | 0.484     | ug/l   | 80  |

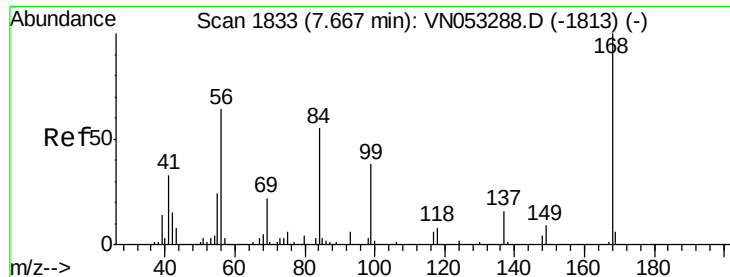
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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VN0114MBL01

Quant Time: Jan 14 22:50:47 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N010519W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jan 07 09:34:27 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: VN053381.D

Acq: 14 Jan 2019 10:37

Instrument :

MSVOA\_N

ClientSampleId :

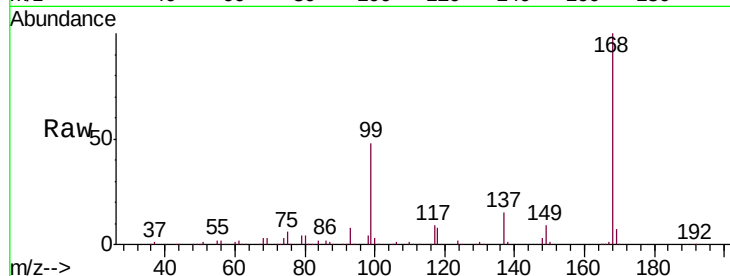
VN0114MBL01

Tgt Ion:168 Resp: 960008

Ion Ratio Lower Upper

168 100

99 48.2 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053381.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053381.D (-1740) (-)

7.67

400000

300000

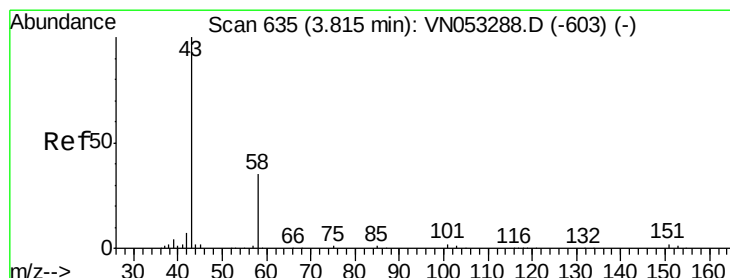
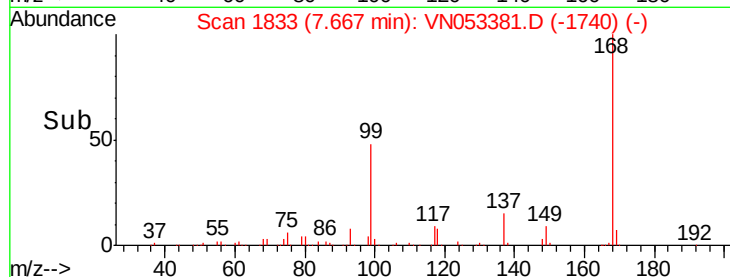
200000

100000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053381.D

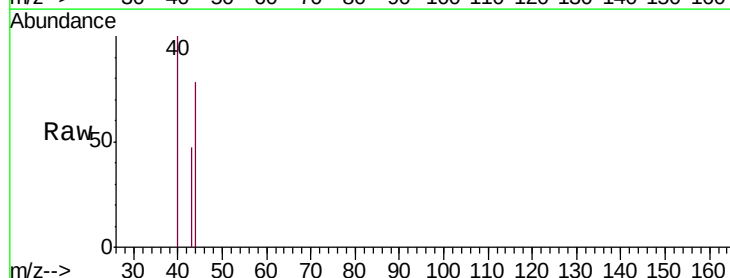
Acq: 14 Jan 2019 10:37

Tgt Ion: 43 Resp: 777

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VN053381.D (-541) (-)

Ion 58.00 (57.70 to 58.70): VN053381.D (-541) (-)

3.82

400

300

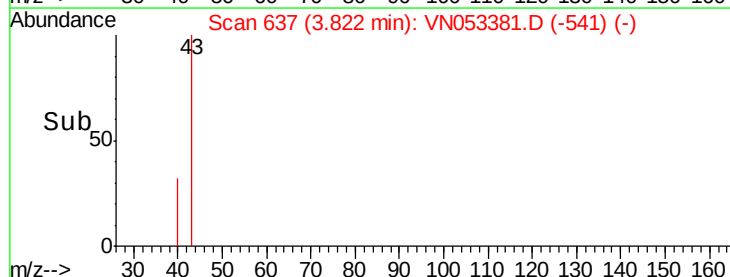
200

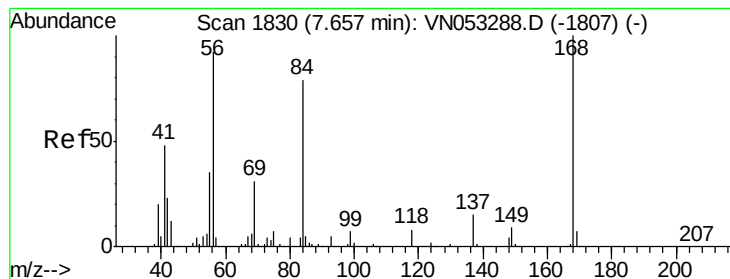
100

0

3.78 3.80 3.82 3.84 3.86

Time-->





#31

Cyclohexane

Concen: 0.693 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053381.D

Acq: 14 Jan 2019 10:37

Instrument :

MSVOA\_N

ClientSampleId :

VN0114MBL01

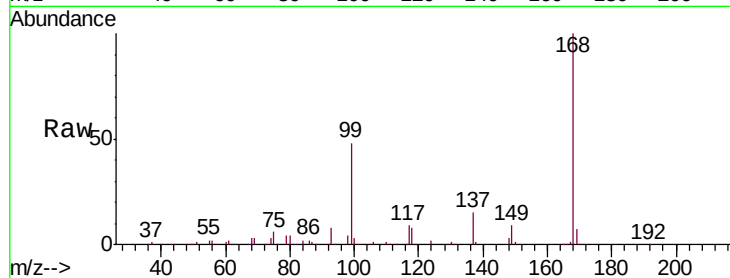
Tgt Ion: 56 Resp: 15081

Ion Ratio Lower Upper

56 100

69 191.5 26.7 40.1#

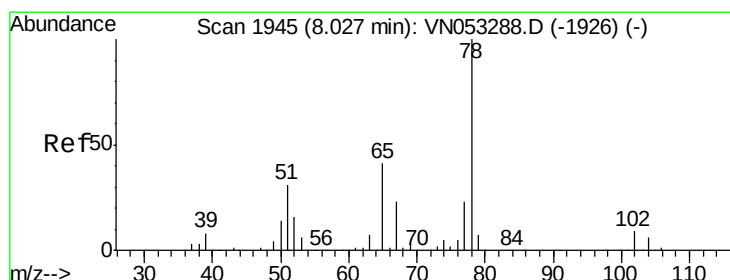
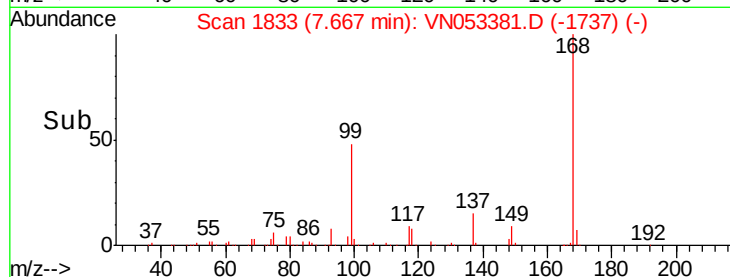
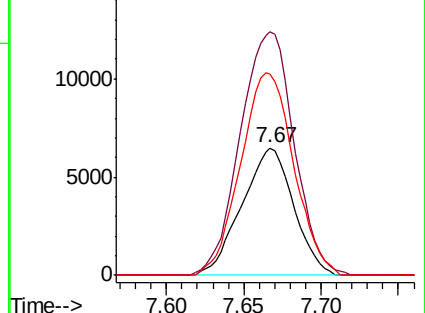
84 158.2 68.2 102.4#



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: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053381.D

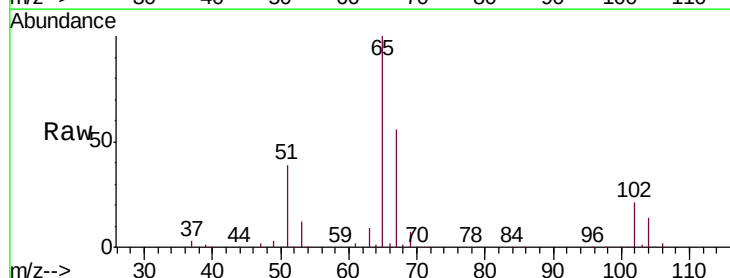
Acq: 14 Jan 2019 10:37

Tgt Ion: 65 Resp: 466827

Ion Ratio Lower Upper

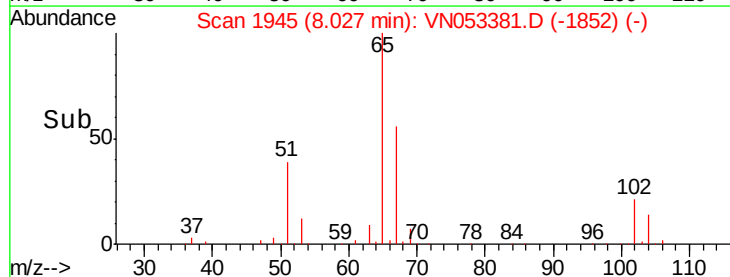
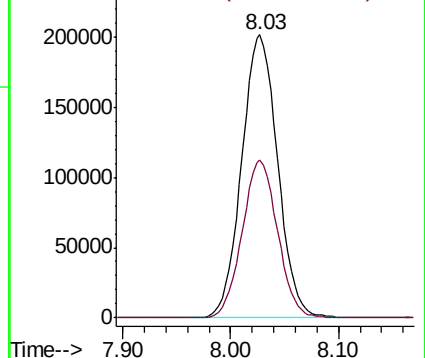
65 100

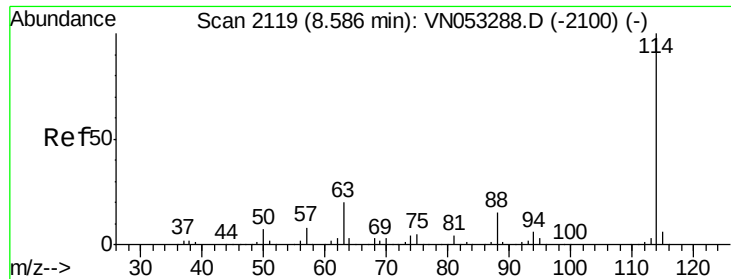
67 55.1 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

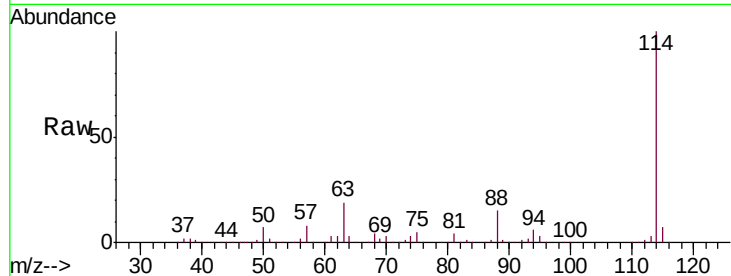




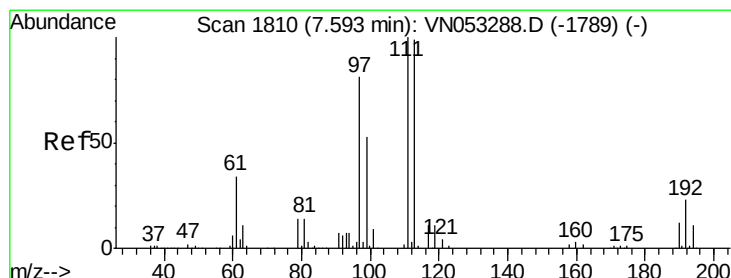
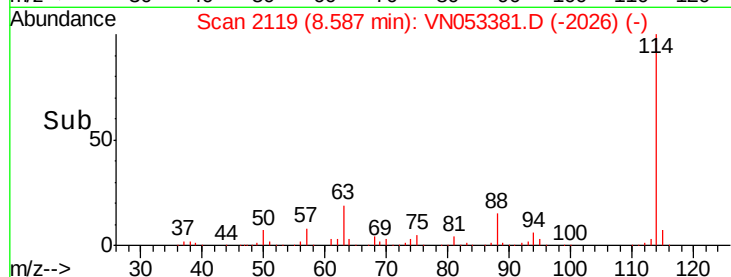
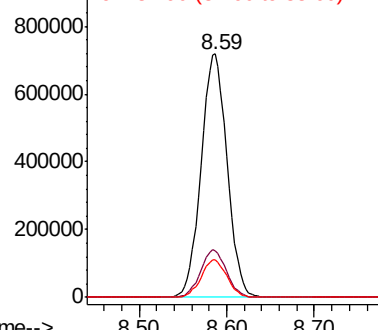
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN053381.D  
 Acq: 14 Jan 2019 10:37

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0114MBL01

Tgt Ion:114 Resp: 1478541  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 39.0  
 88 15.4 0.0 30.8

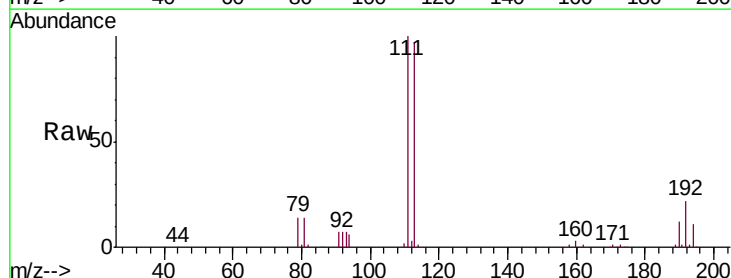


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

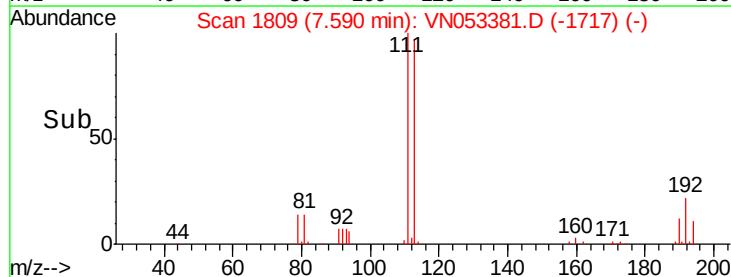
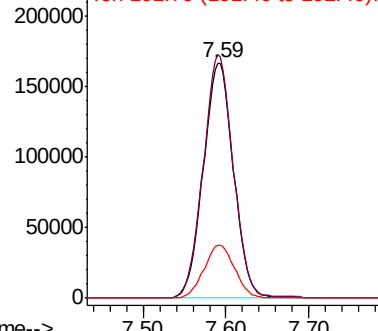


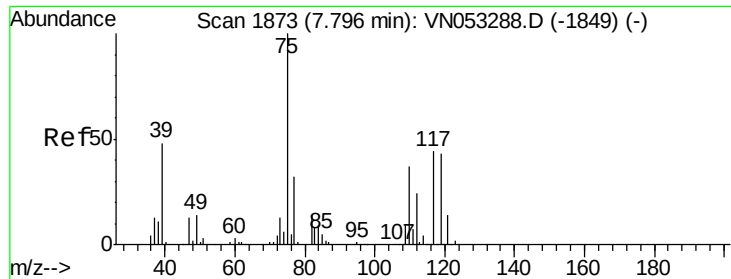
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN053381.D  
 Acq: 14 Jan 2019 10:37

Tgt Ion:113 Resp: 423959  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 81.4 122.2  
 192 22.8 17.9 26.9



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

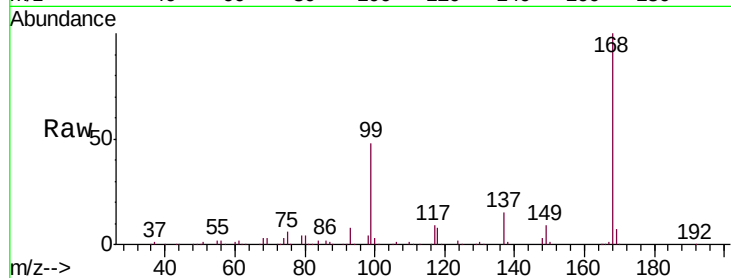




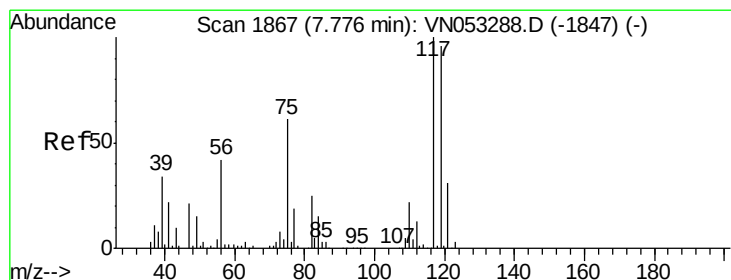
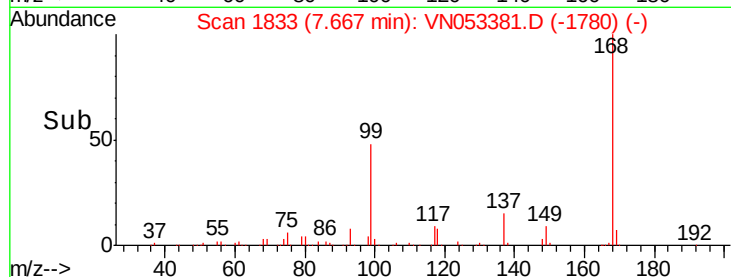
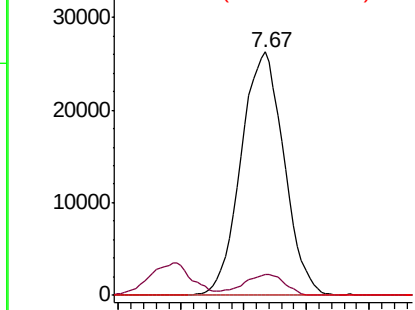
#36  
 1,1-Dichloropropene  
 Concen: 4.522 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.13 min  
 Lab File: VN053381.D  
 Acq: 14 Jan 2019 10:37

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0114MBL01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.4   | 18.4  | 55.0# |
| 77      | 0.0   | 25.3  | 37.9# |

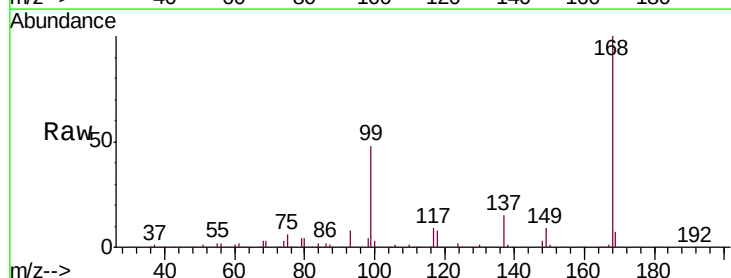


Abundance Ion 74.90 (74.60 to 75.60): VN053381.D (-1780) (-)  
 Ion 109.90 (109.60 to 110.60): VN053381.D (-1780) (-)  
 Ion 76.90 (76.60 to 77.60): VN053381.D (-1780) (-)

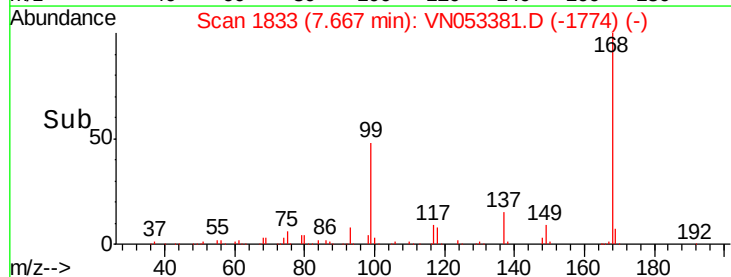
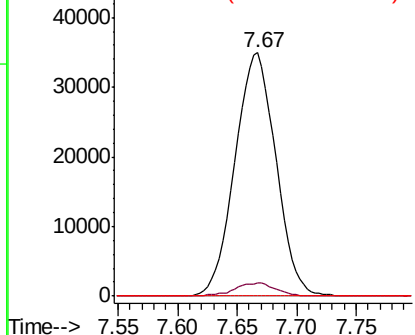


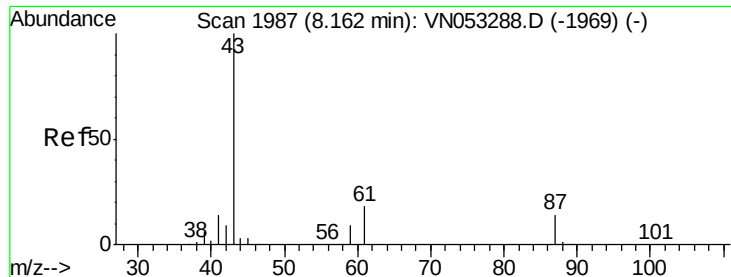
#38  
 Carbon Tetrachloride  
 Concen: 6.536 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.11 min  
 Lab File: VN053381.D  
 Acq: 14 Jan 2019 10:37

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.5   | 76.6  | 115.0# |
| 121     | 0.0   | 25.0  | 37.4#  |



Abundance Ion 116.80 (116.50 to 117.50): VN053381.D (-1774) (-)  
 Ion 118.80 (118.50 to 119.50): VN053381.D (-1774) (-)  
 Ion 120.80 (120.50 to 121.50): VN053381.D (-1774) (-)





#43

Isopropyl Acetate

Concen: 0.620 ug/l

RT: 8.23 min Scan# 2007

Delta R.T. 0.06 min

Lab File: VN053381.D

Acq: 14 Jan 2019 10:37

Instrument :

MSVOA\_N

ClientSampleId :

VN0114MBL01

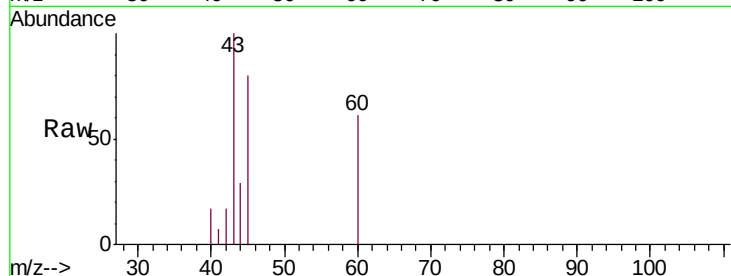
Tgt Ion: 43 Resp: 10967

Ion Ratio Lower Upper

43 100

61 0.0 23.3 34.9#

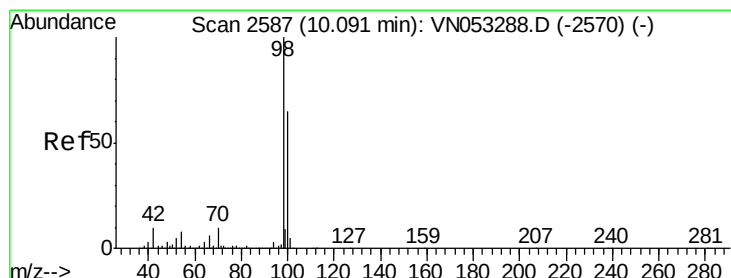
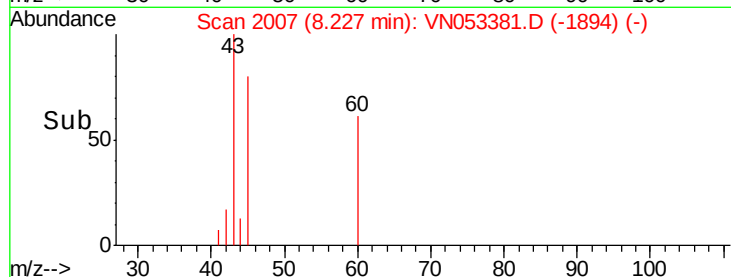
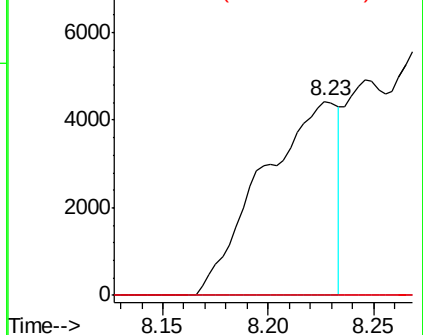
87 0.0 10.8 16.2#



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: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053381.D

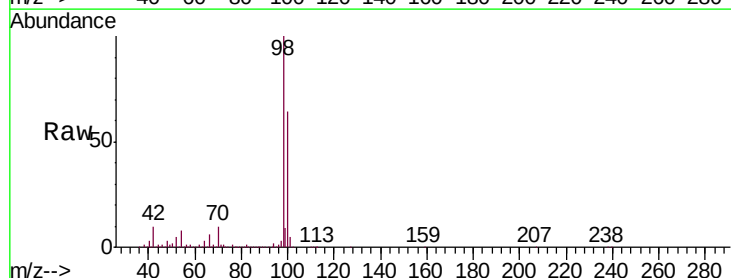
Acq: 14 Jan 2019 10:37

Tgt Ion: 98 Resp: 1832956

Ion Ratio Lower Upper

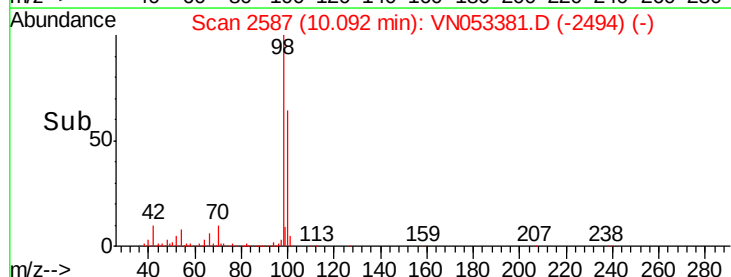
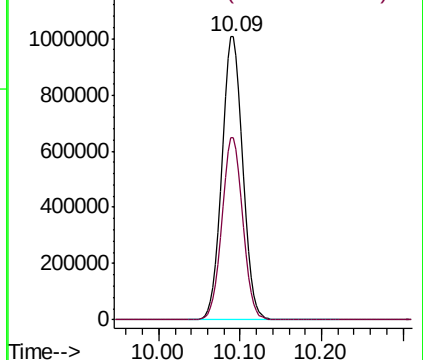
98 100

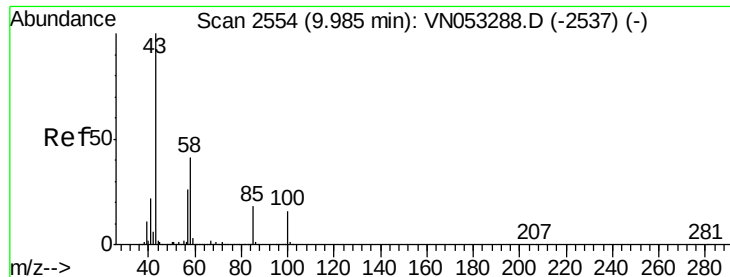
100 64.1 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.732 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.10 min

Lab File: VN053381.D

Acq: 14 Jan 2019 10:37

Instrument :

MSVOA\_N

ClientSampled :

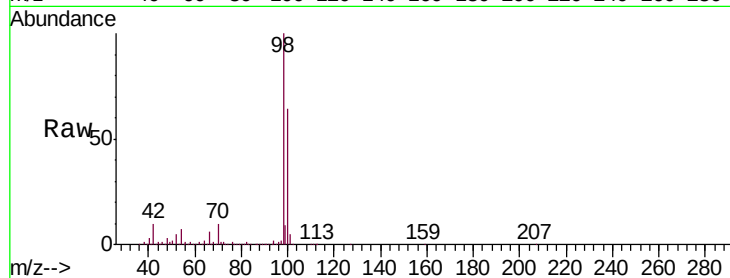
VN0114MBL01

Tgt Ion: 43 Resp: 6513

Ion Ratio Lower Upper

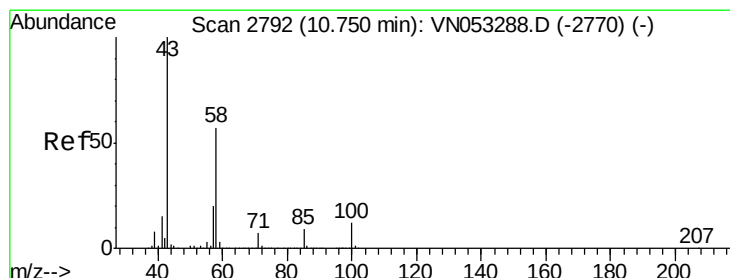
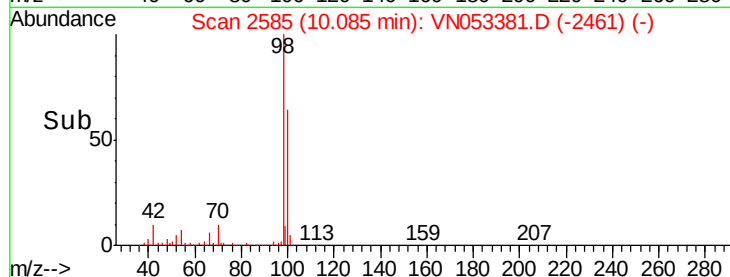
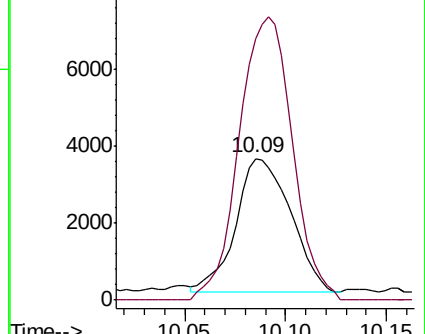
43 100

58 208.7 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#59

2-Hexanone

Concen: 0.202 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN053381.D

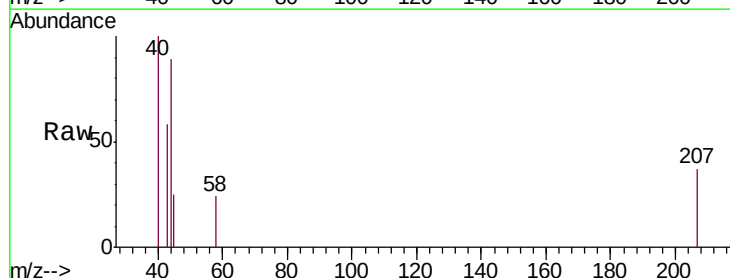
Acq: 14 Jan 2019 10:37

Tgt Ion: 43 Resp: 1230

Ion Ratio Lower Upper

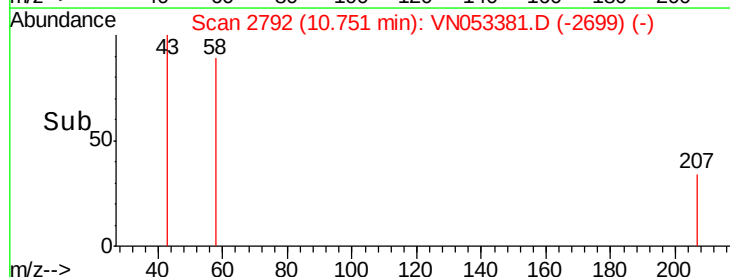
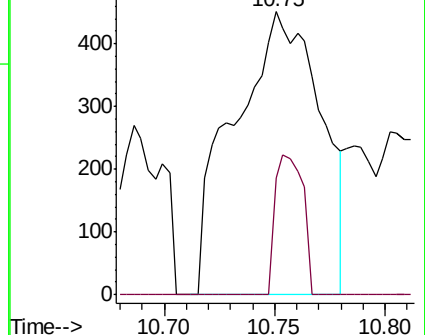
43 100

58 15.6 28.3 85.0#

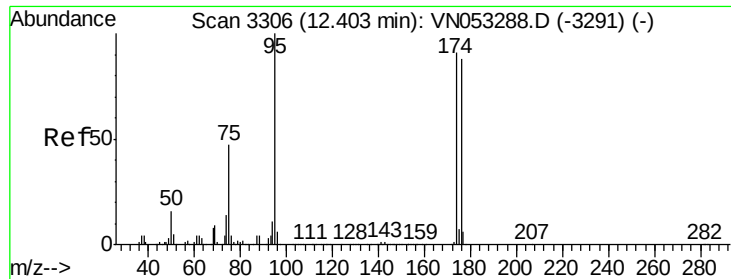


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



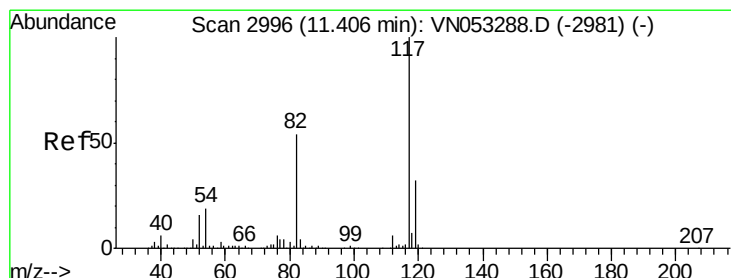
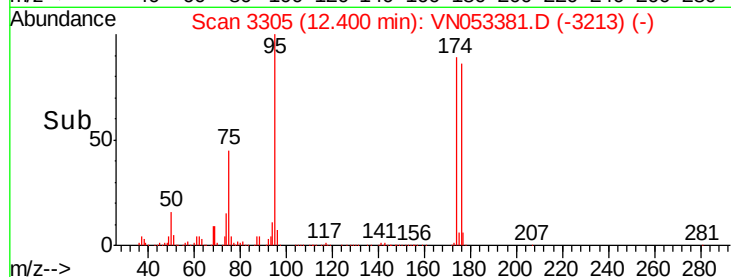
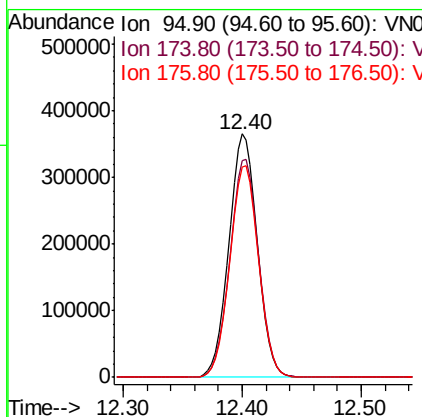
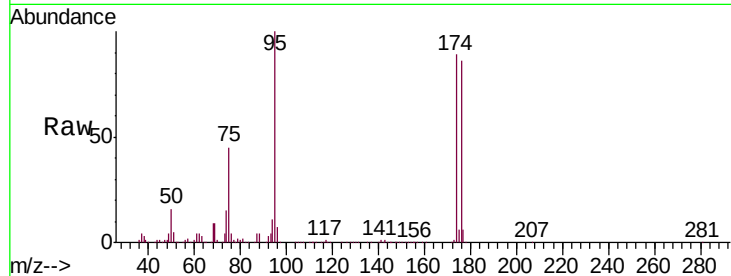




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN053381.D  
Acq: 14 Jan 2019 10:37

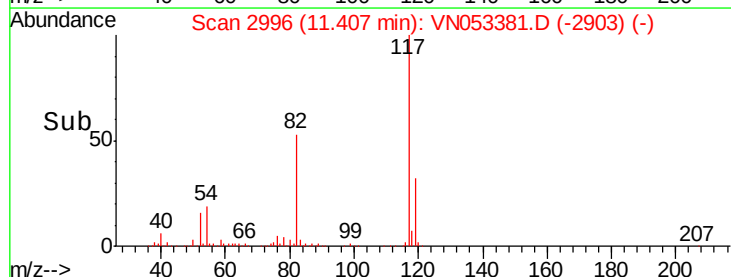
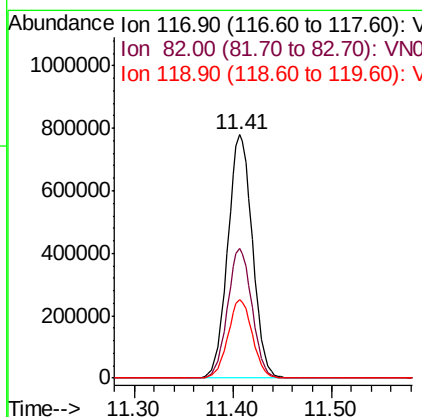
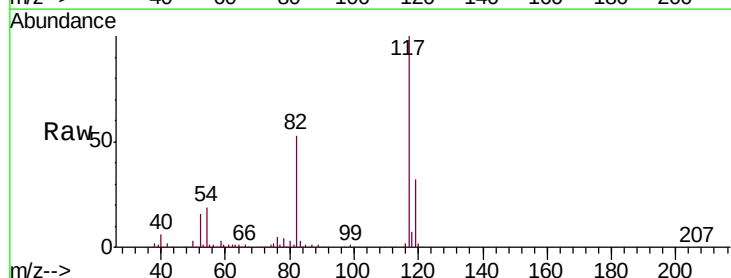
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0114MBL01

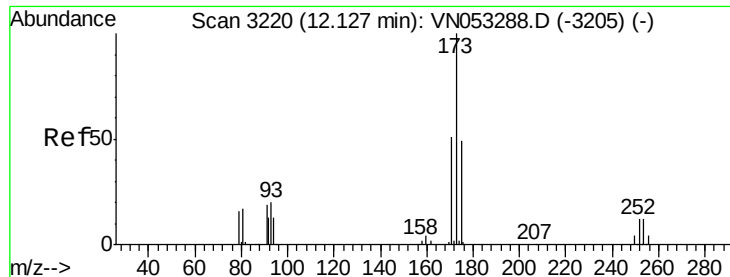
Tgt Ion: 95 Resp: 602930  
Ion Ratio Lower Upper  
95 100  
174 90.9 0.0 180.4  
176 88.0 0.0 175.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN053381.D  
Acq: 14 Jan 2019 10:37

Tgt Ion: 117 Resp: 1359585  
Ion Ratio Lower Upper  
117 100  
82 53.3 42.9 64.3  
119 32.0 25.6 38.4





#71

Bromoform

Concen: 0.584 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053381.D

Acq: 14 Jan 2019 10:37

Instrument :

MSVOA\_N

ClientSampleId :

VN0114MBL01

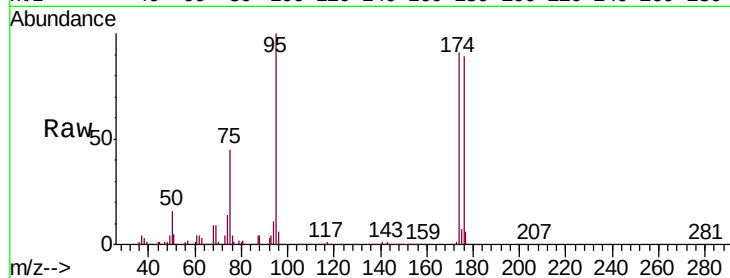
Tgt Ion:173 Resp: 4266

Ion Ratio Lower Upper

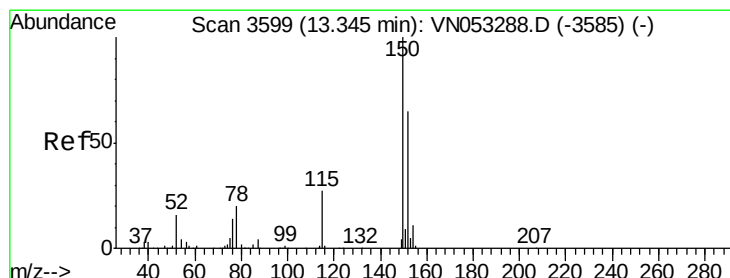
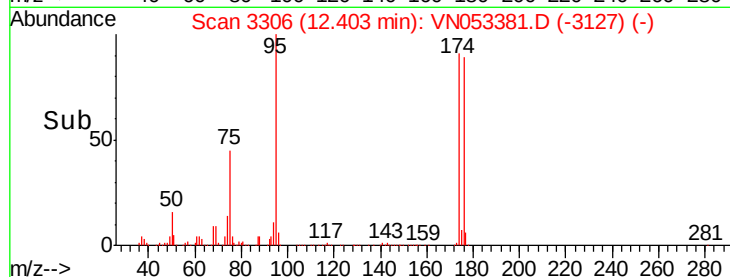
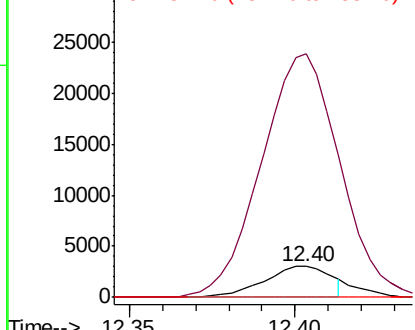
173 100

175 812.9 24.3 72.8#

254 0.0 0.2 0.2#



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: VN053381.D

Acq: 14 Jan 2019 10:37

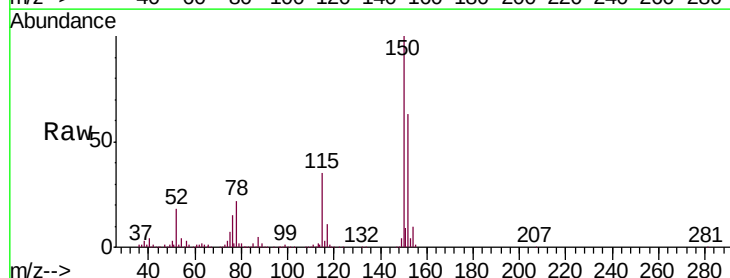
Tgt Ion:152 Resp: 534030

Ion Ratio Lower Upper

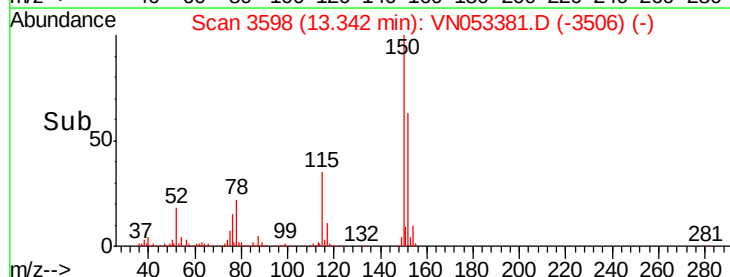
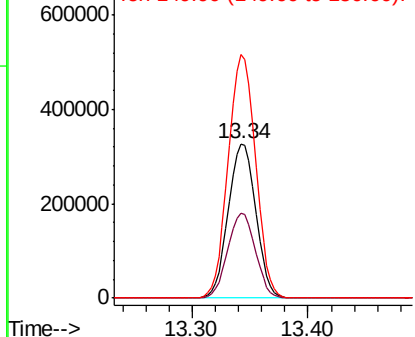
152 100

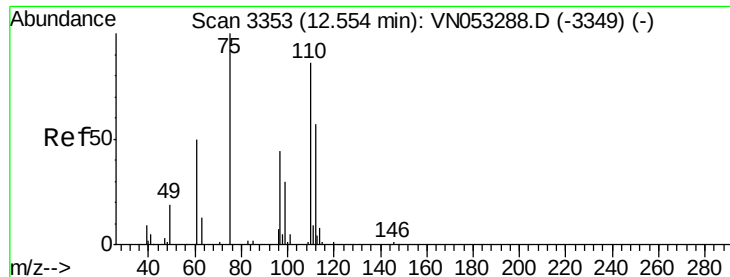
115 55.3 28.0 84.0

150 157.2 0.0 346.6



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: 35.830 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053381.D

Acq: 14 Jan 2019 10:37

Instrument :

MSVOA\_N

ClientSampleId :

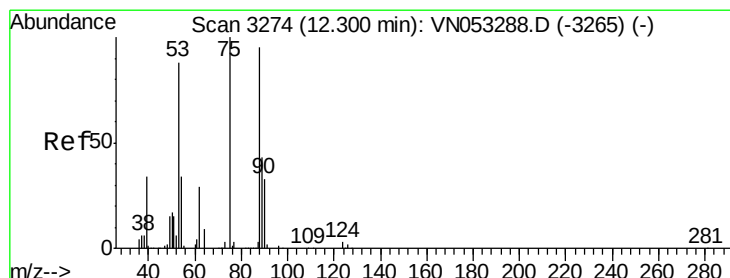
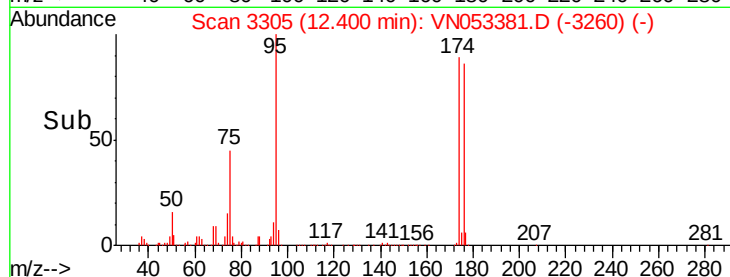
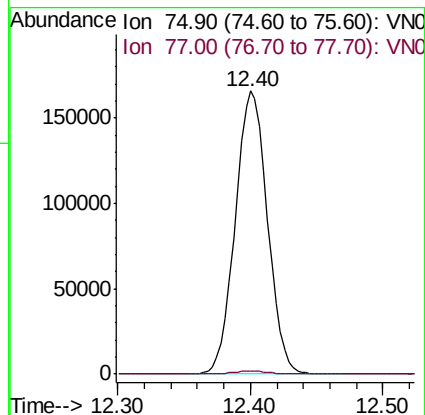
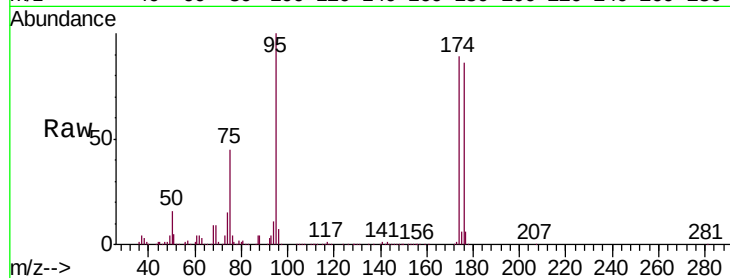
VN0114MBL01

Tgt Ion: 75 Resp: 279087

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 105.419 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053381.D

Acq: 14 Jan 2019 10:37

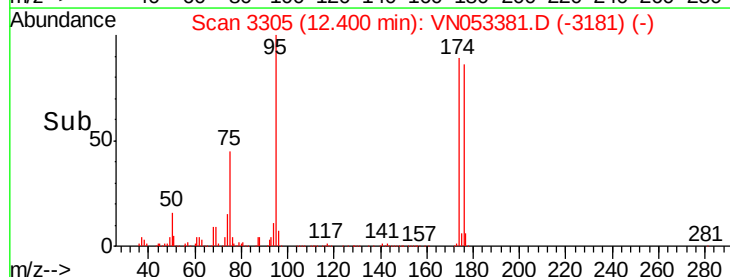
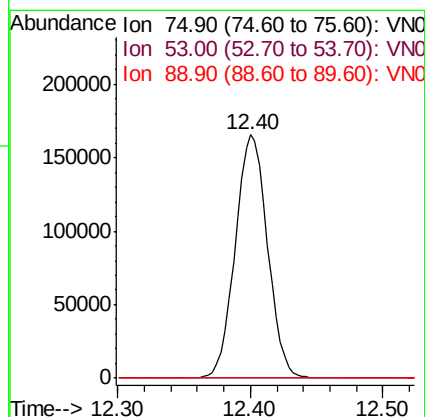
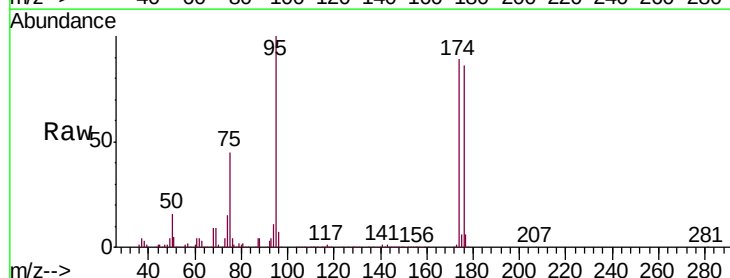
Tgt Ion: 75 Resp: 279087

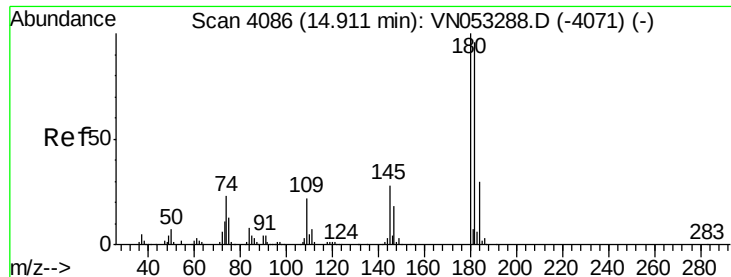
Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 35.4 53.0#





#93

1,2,4-Trichlorobenzene

Concen: 0.235 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN053381.D

Acq: 14 Jan 2019 10:37

Instrument :

MSVOA\_N

ClientSampleId :

VN0114MBL01

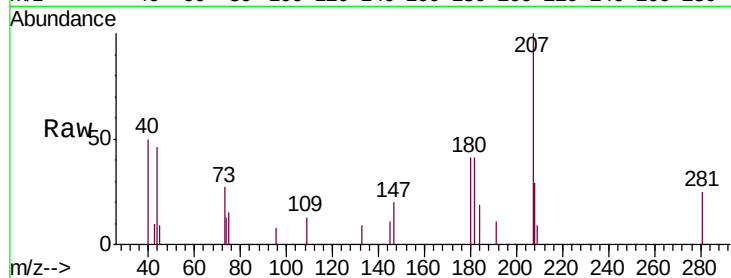
Tgt Ion:180 Resp: 1295

Ion Ratio Lower Upper

180 100

182 99.8 47.8 143.4

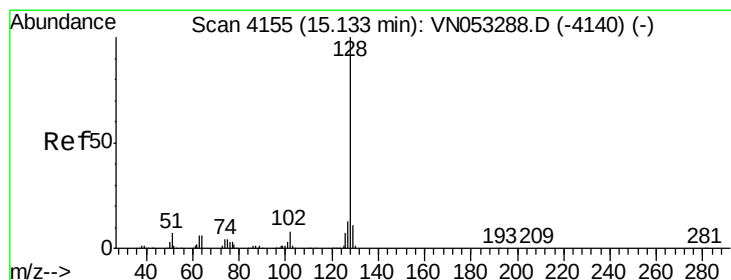
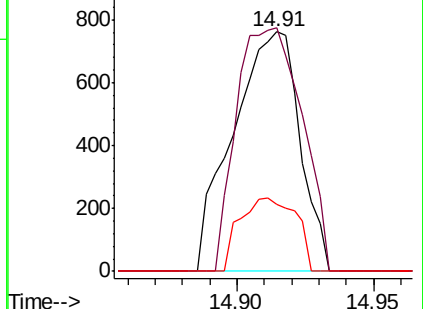
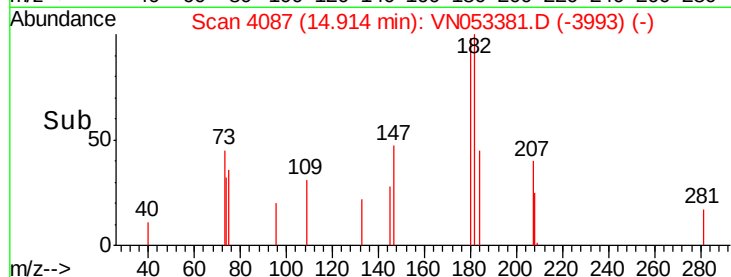
145 25.9 14.4 43.0



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: 0.316 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053381.D

Acq: 14 Jan 2019 10:37

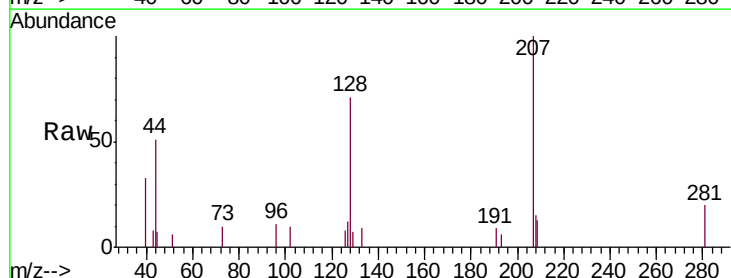
Tgt Ion:128 Resp: 2967

Ion Ratio Lower Upper

128 100

127 10.1 10.4 15.6#

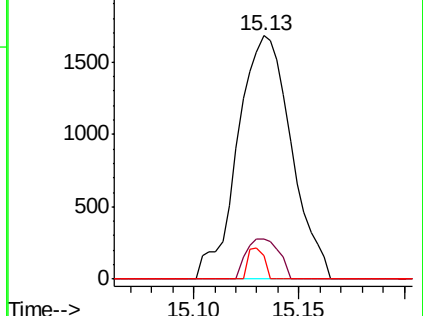
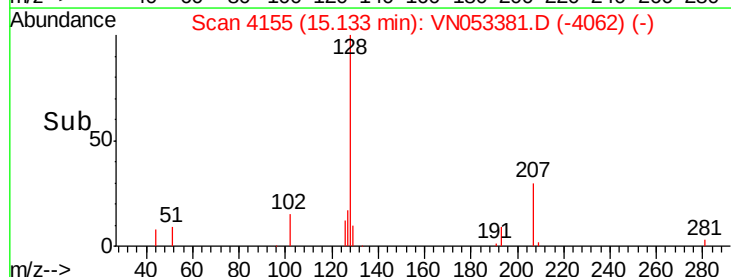
129 3.8 8.7 13.1#

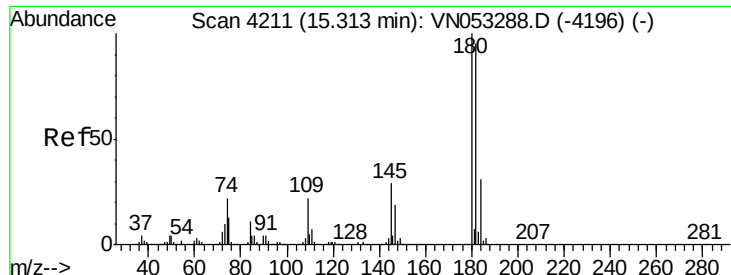


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.484 ug/l  
 RT: 15.32 min Scan# 4212  
 Delta R.T. 0.00 min  
 Lab File: VN053381.D  
 Acq: 14 Jan 2019 10:37

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0114MBL01

Tgt Ion:180 Resp: 1743  
 Ion Ratio Lower Upper  
 180 100  
 182 73.1 48.4 145.0  
 145 25.4 14.9 44.5

