

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN091119\  
 Data File : VN057918.D  
 Acq On : 11 Sep 2019 12:29  
 Operator : JC/SP  
 Sample : K4644-18  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 61 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T11-D3-(0)

Quant Time: Sep 12 01:32:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091019W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 10 03:02:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 290836   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 493648   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 452020   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 229805   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 330416   | 56.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.18% |          |
| 35) Dibromofluoromethane    | 7.58  | 113  | 225902   | 49.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.16%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 892884   | 50.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.96% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 293145   | 43.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.98%  |          |

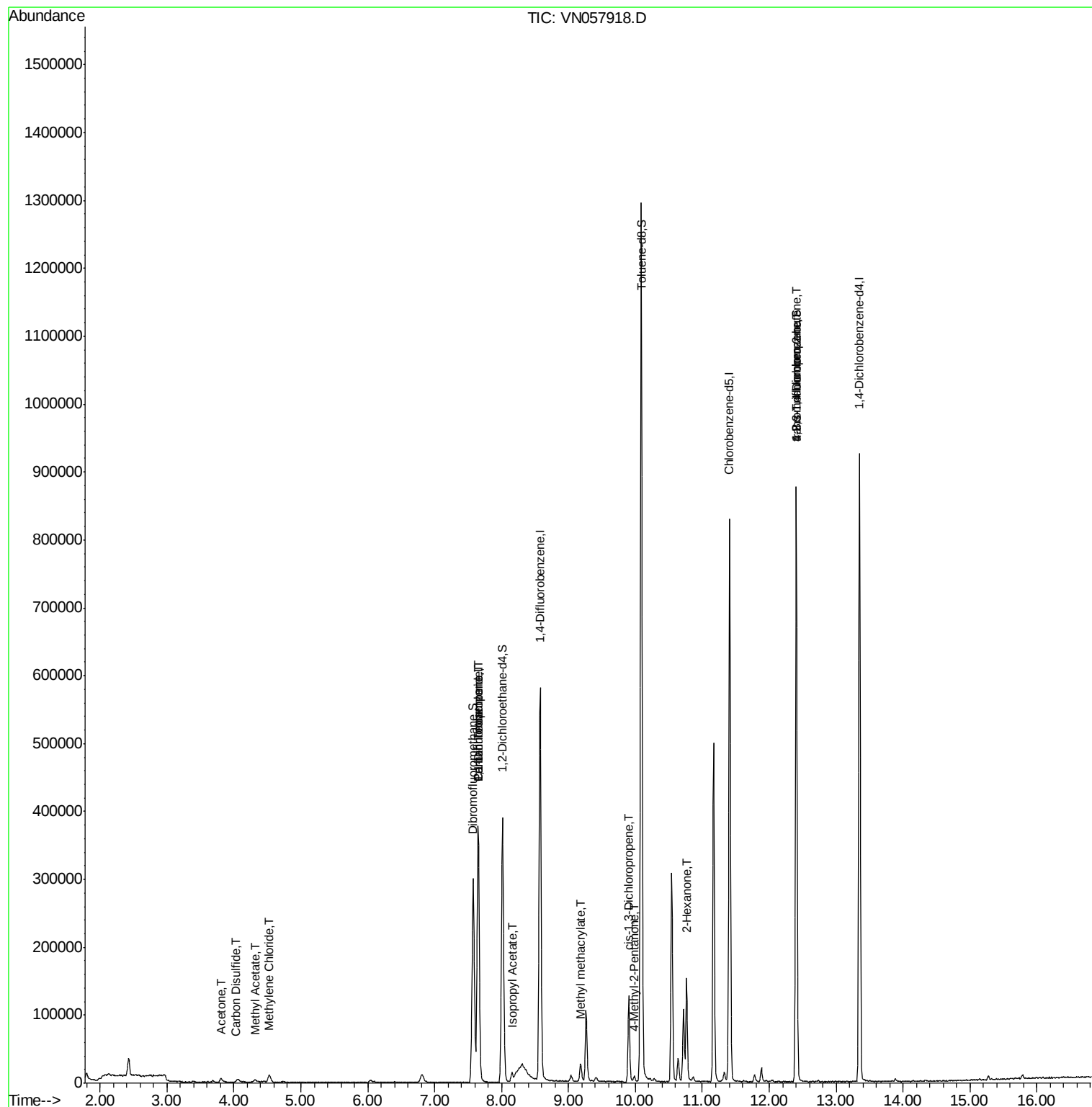
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.56  | 94   | 101      | Below Cal | #      | 2      |
| 16) Acetone                    | 3.81  | 43   | 10698    | 5.540     | ug/l # | 84     |
| 17) Carbon Disulfide           | 4.02  | 76   | 234      | 0.207     | ug/l # | 75     |
| 18) Methyl Acetate             | 4.31  | 43   | 7156     | 1.390     | ug/l # | 82     |
| 20) Methylene Chloride         | 4.53  | 84   | 7566     | 0.848     | ug/l   | 89     |
| 31) Cyclohexane                | 7.65  | 56   | 7595     | Below Cal | #      | 9      |
| 36) 1,1-Dichloropropene        | 7.65  | 75   | 25908    | 4.525     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.65  | 117  | 30068    | 5.753     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.16  | 43   | 16910    | 1.700     | ug/l   | 93     |
| 48) Methyl methacrylate        | 9.18  | 41   | 4390     | 0.870     | ug/l # | 31     |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 5051     | 0.858     | ug/l   | 96     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75   | 21542    | 3.062     | ug/l # | 71     |
| 59) 2-Hexanone                 | 10.76 | 43   | 23429    | 5.310     | ug/l # | 56     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 162449   | 31.249    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 162449   | 109.965   | ug/l # | 6      |
| 95) Naphthalene                | 15.14 | 128  | 829      | Below Cal | #      | 74     |

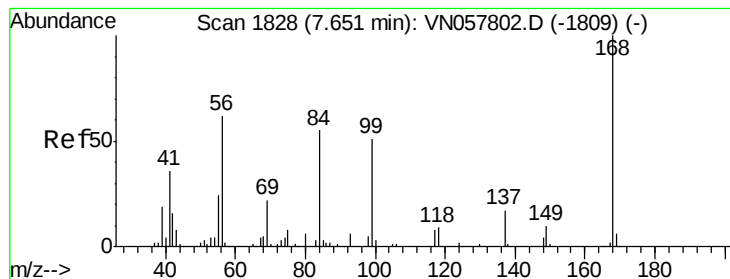
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Sep 10 03:02:13 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN057918.D

Acq: 11 Sep 2019 12:29

Instrument :

MSVOA\_N

ClientSampleId :

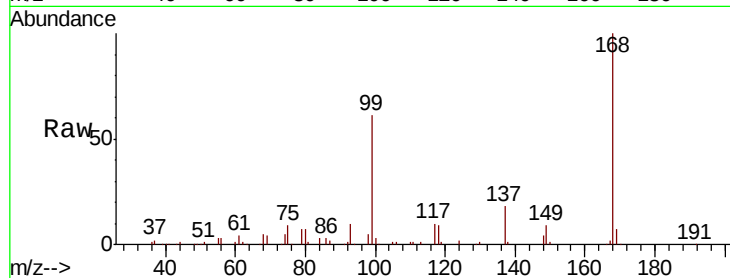
T11-D3-(0)

Tgt Ion: 168 Resp: 290836

Ion Ratio Lower Upper

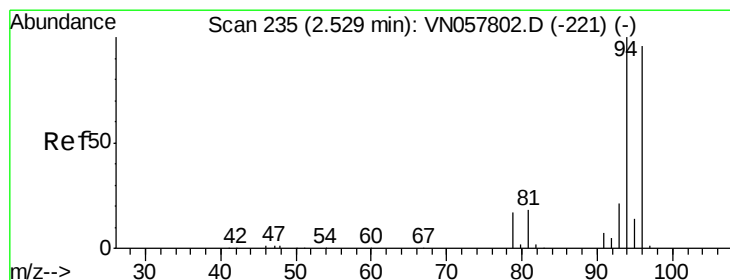
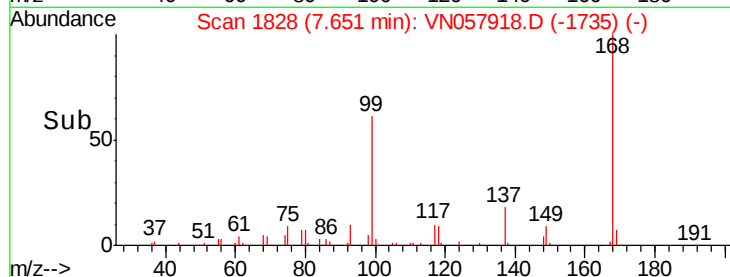
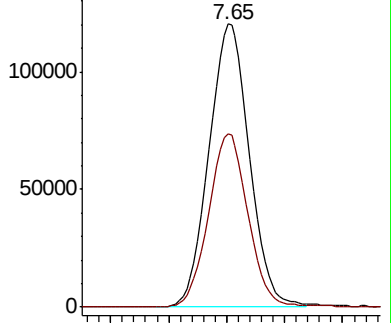
168 100

99 61.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 244

Delta R.T. 0.03 min

Lab File: VN057918.D

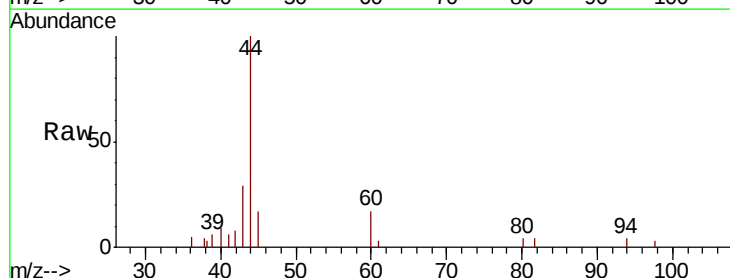
Acq: 11 Sep 2019 12:29

Tgt Ion: 94 Resp: 101

Ion Ratio Lower Upper

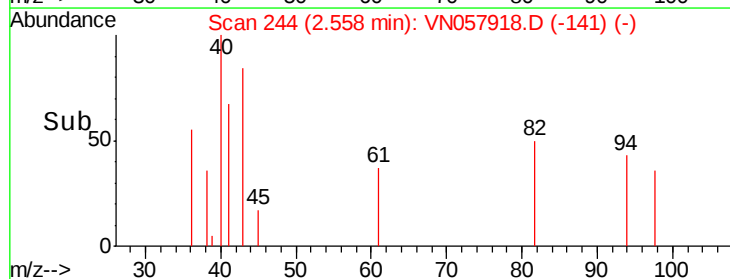
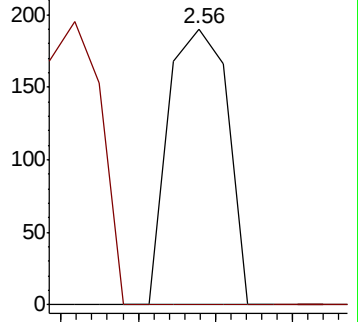
94 100

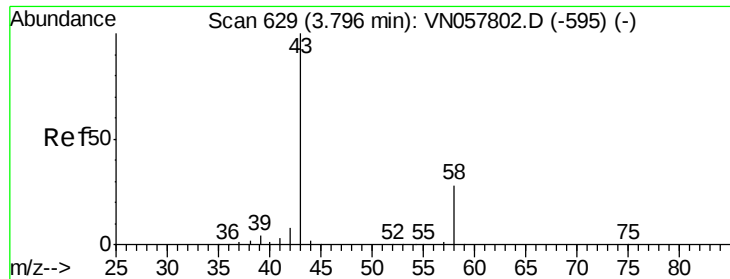
96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#16

Acetone

Concen: 5.540 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN057918.D

Acq: 11 Sep 2019 12:29

Instrument :

MSVOA\_N

ClientSampleId :

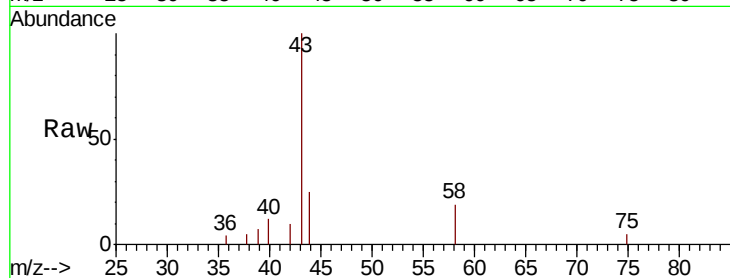
T11-D3-(0)

Tgt Ion: 43 Resp: 10698

Ion Ratio Lower Upper

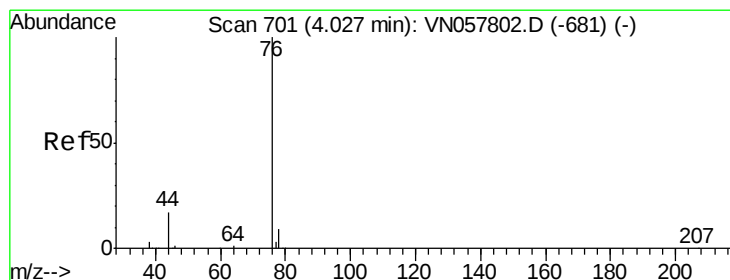
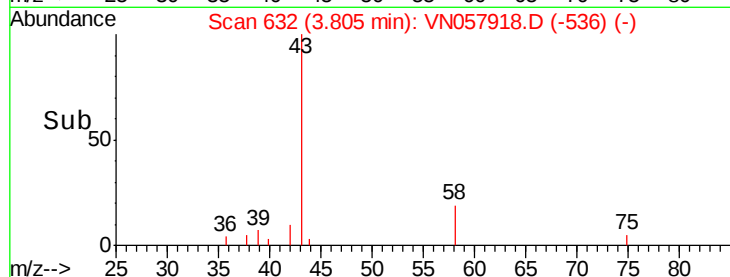
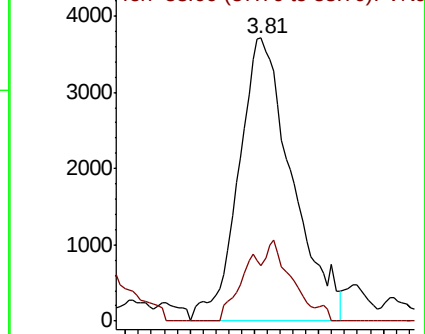
43 100

58 19.5 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VN057918.D (-632) (-)

Ion 58.00 (57.70 to 58.70): VN057918.D (-632) (-)



#17

Carbon Disulfide

Concen: 0.207 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.01 min

Lab File: VN057918.D

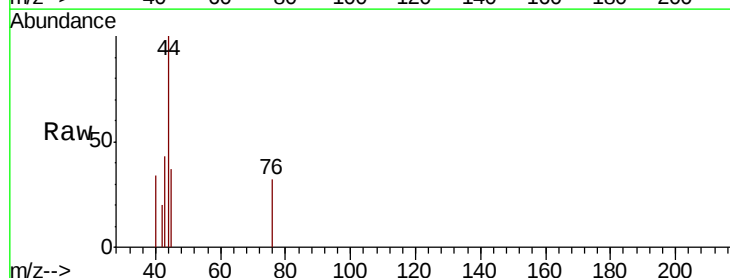
Acq: 11 Sep 2019 12:29

Tgt Ion: 76 Resp: 234

Ion Ratio Lower Upper

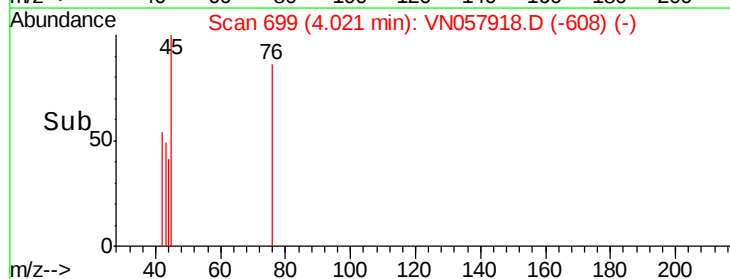
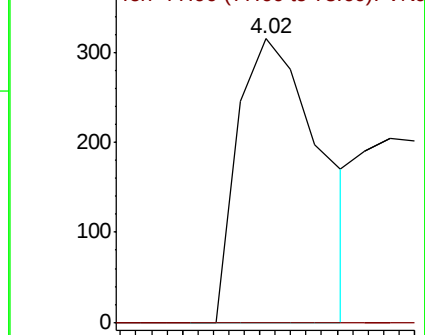
76 100

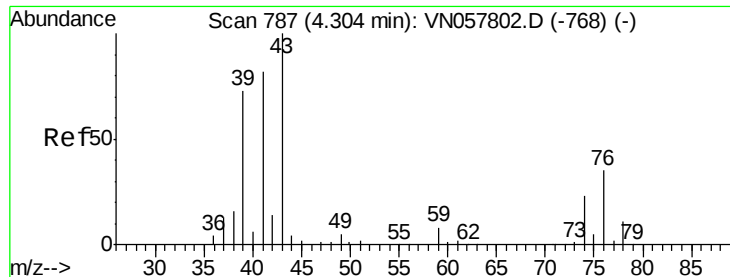
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN057918.D (-699) (-)

Ion 77.90 (77.60 to 78.60): VN057918.D (-699) (-)

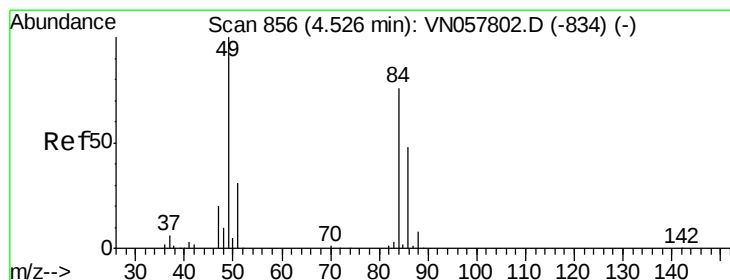
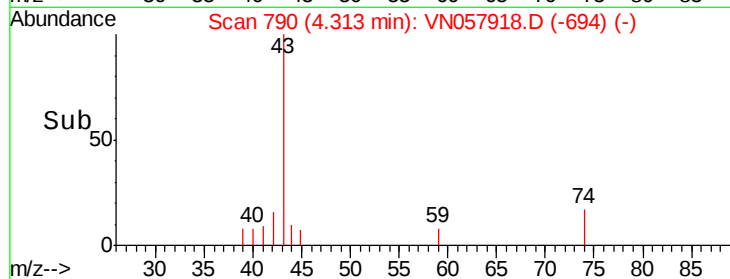
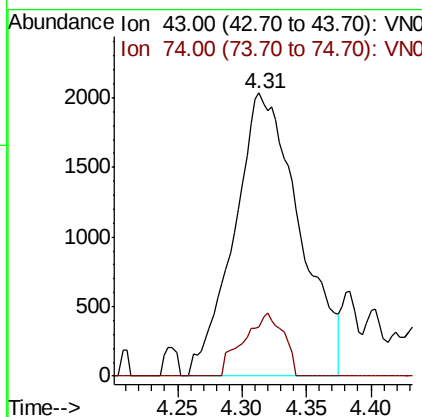
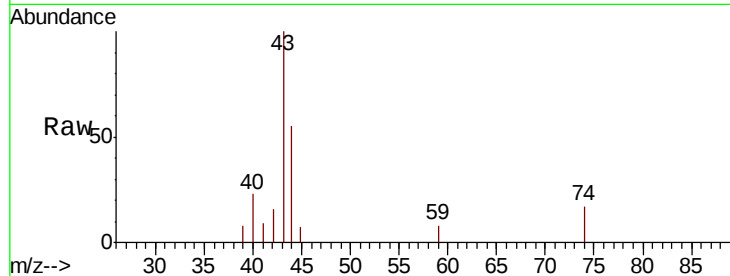




#18  
Methyl Acetate  
Concen: 1.390 ug/l  
RT: 4.31 min Scan# 790  
Delta R.T. 0.01 min  
Lab File: VN057918.D  
Acq: 11 Sep 2019 12:29

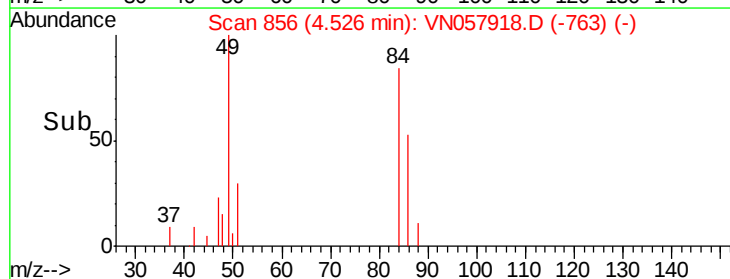
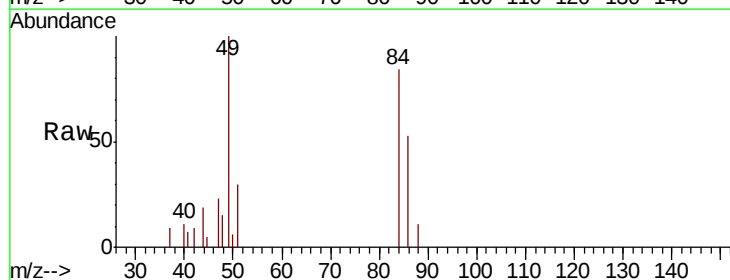
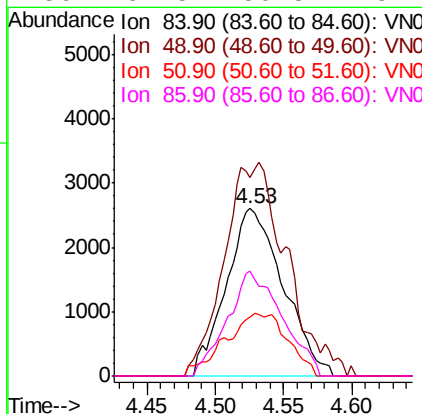
Instrument :  
MSVOA\_N  
ClientSampleId :  
T11-D3-(0)

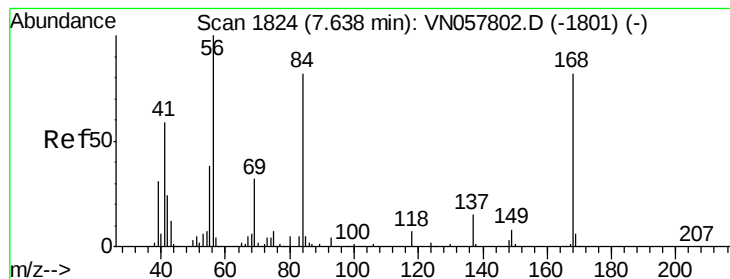
Tgt Ion: 43 Resp: 7156  
Ion Ratio Lower Upper  
43 100  
74 13.5 17.9 26.9#



#20  
Methylene Chloride  
Concen: 0.848 ug/l  
RT: 4.53 min Scan# 856  
Delta R.T. 0.00 min  
Lab File: VN057918.D  
Acq: 11 Sep 2019 12:29

Tgt Ion: 84 Resp: 7566  
Ion Ratio Lower Upper  
84 100  
49 112.2 104.8 157.2  
51 35.4 33.0 49.4  
86 62.5 50.5 75.7





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057918.D

Acq: 11 Sep 2019 12:29

Instrument :

MSVOA\_N

ClientSampleId :

T11-D3-(0)

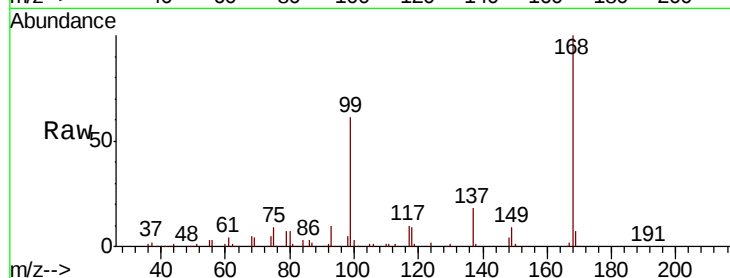
Tgt Ion: 56 Resp: 7595

Ion Ratio Lower Upper

56 100

69 156.3 25.9 38.9#

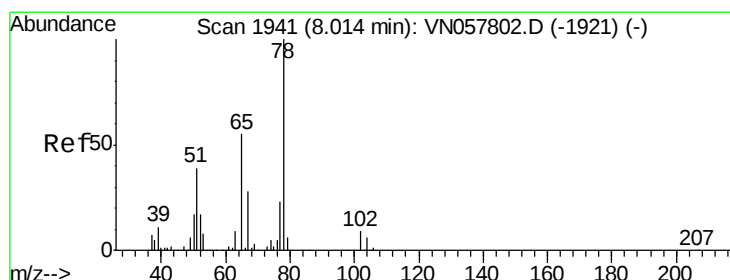
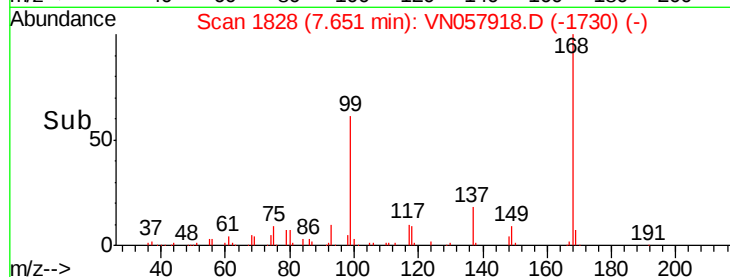
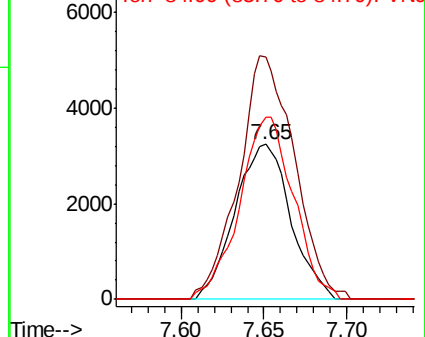
84 117.3 65.6 98.4#



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: 56.092 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057918.D

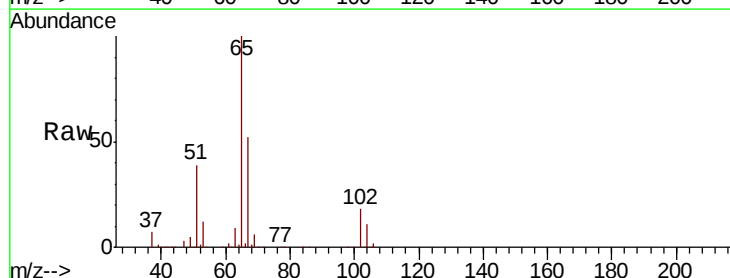
Acq: 11 Sep 2019 12:29

Tgt Ion: 65 Resp: 330416

Ion Ratio Lower Upper

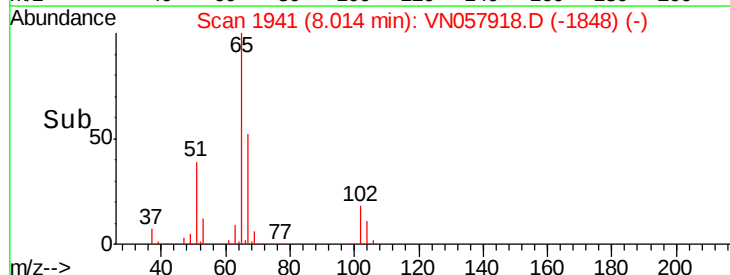
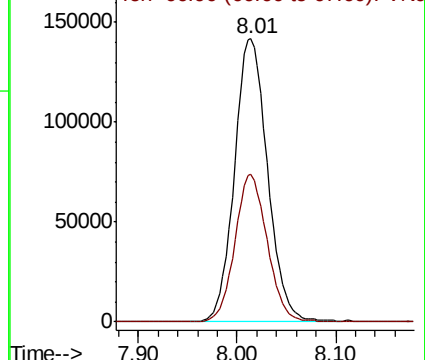
65 100

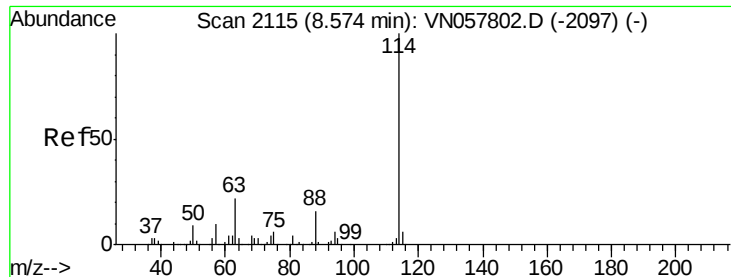
67 51.1 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

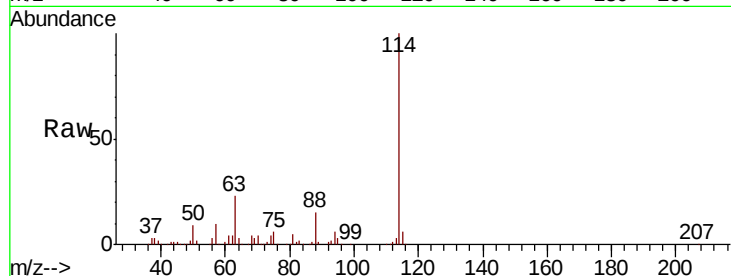




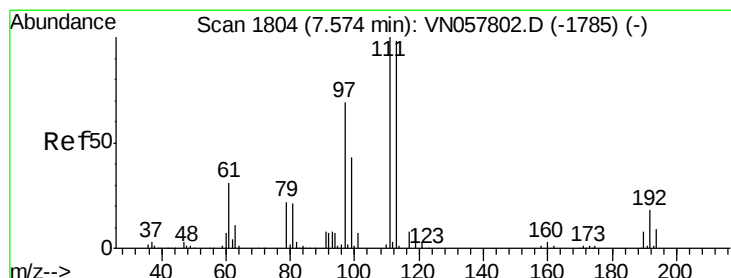
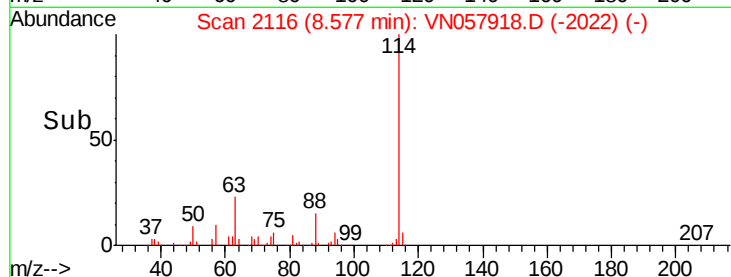
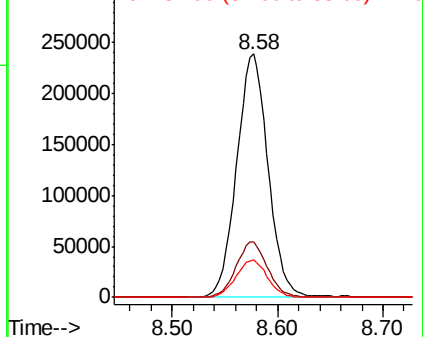
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. 0.00 min  
 Lab File: VN057918.D  
 Acq: 11 Sep 2019 12:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T11-D3-(0)

Tgt Ion:114 Resp: 493648  
 Ion Ratio Lower Upper  
 114 100  
 63 22.5 0.0 44.0  
 88 15.3 0.0 31.4

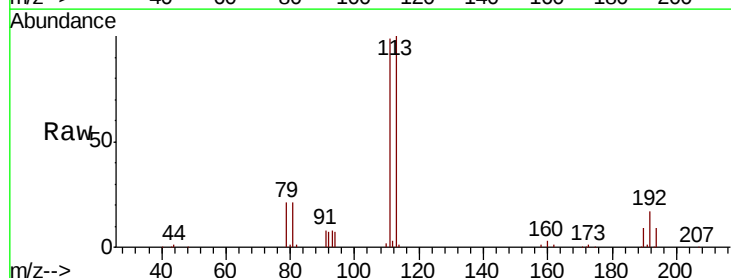


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

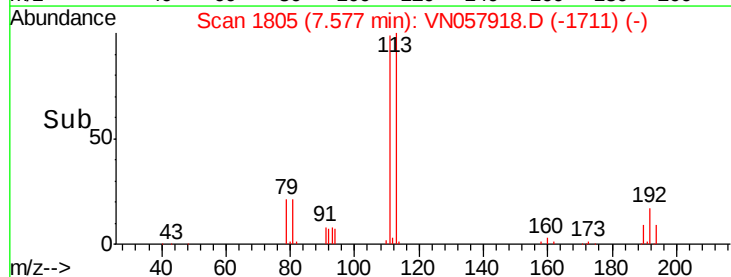
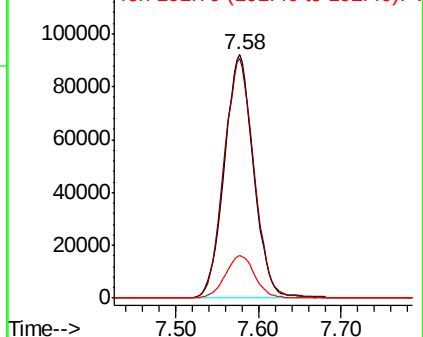


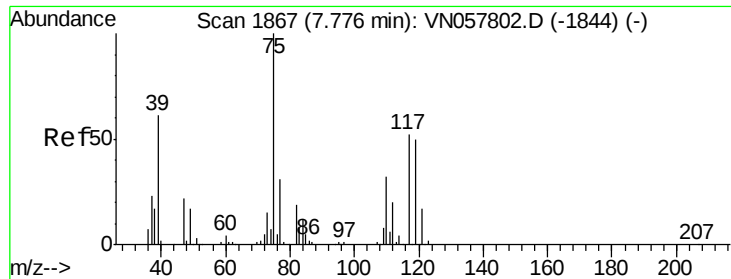
#35  
 Dibromofluoromethane  
 Concen: 49.582 ug/l  
 RT: 7.58 min Scan# 1805  
 Delta R.T. 0.00 min  
 Lab File: VN057918.D  
 Acq: 11 Sep 2019 12:29

Tgt Ion:113 Resp: 225902  
 Ion Ratio Lower Upper  
 113 100  
 111 100.8 81.3 121.9  
 192 17.7 14.6 22.0



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

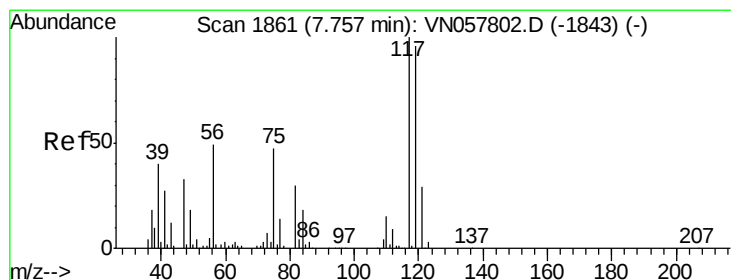
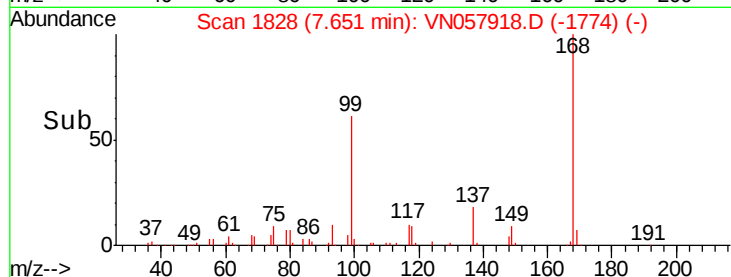
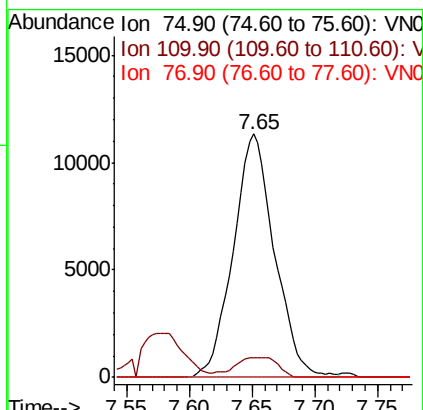
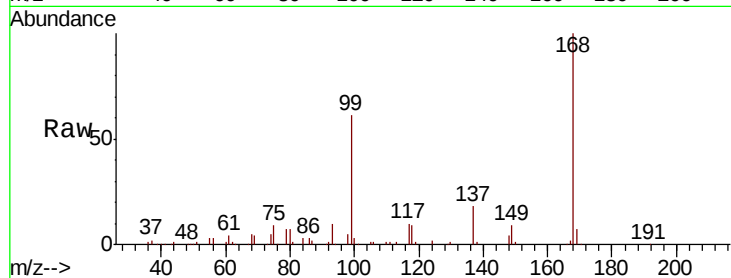




#36  
 1,1-Dichloropropene  
 Concen: 4.525 ug/l  
 RT: 7.65 min Scan# 1828  
 Delta R.T. -0.13 min  
 Lab File: VN057918.D  
 Acq: 11 Sep 2019 12:29

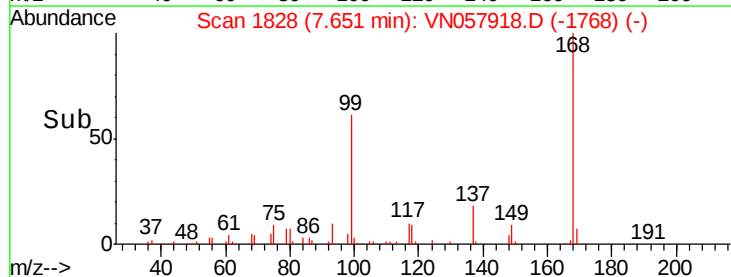
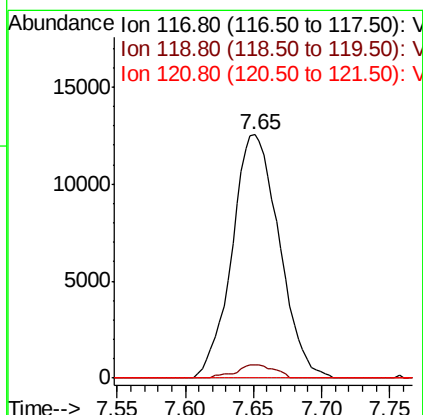
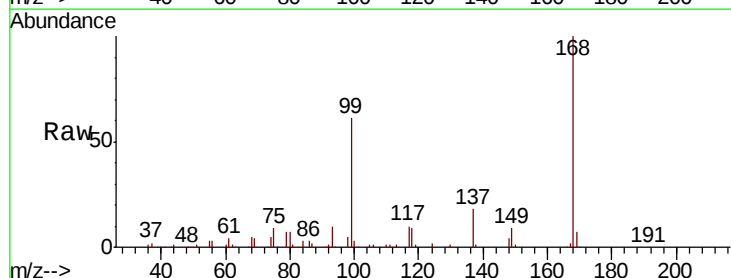
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T11-D3-(0)

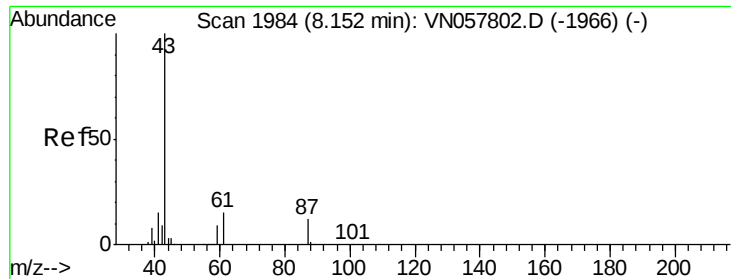
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 3.8   | 16.3  | 48.9# |
| 77      | 0.0   | 25.0  | 37.4# |



#38  
 Carbon Tetrachloride  
 Concen: 5.753 ug/l  
 RT: 7.65 min Scan# 1828  
 Delta R.T. -0.11 min  
 Lab File: VN057918.D  
 Acq: 11 Sep 2019 12:29

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.4   | 76.9  | 115.3# |
| 121     | 0.0   | 23.4  | 35.2#  |





#43

Isopropyl Acetate

Concen: 1.700 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.01 min

Lab File: VN057918.D

Acq: 11 Sep 2019 12:29

Instrument :

MSVOA\_N

ClientSampleId :

T11-D3-(0)

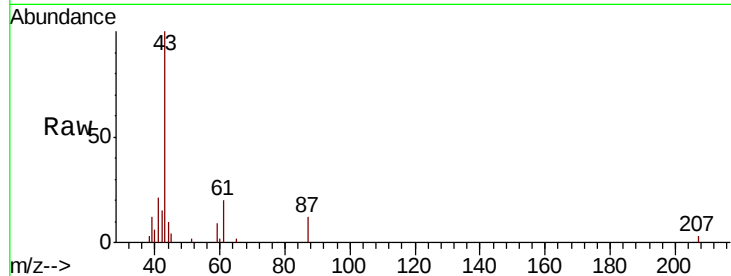
Tgt Ion: 43 Resp: 16910

Ion Ratio Lower Upper

43 100

61 21.2 20.1 30.1

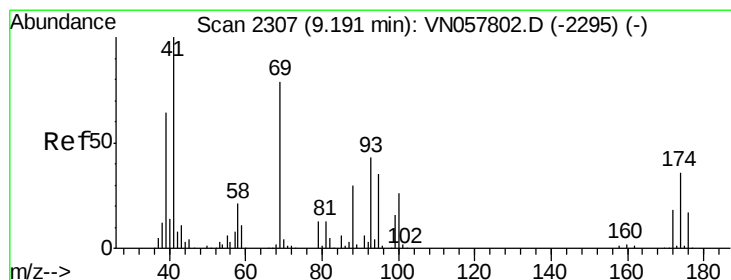
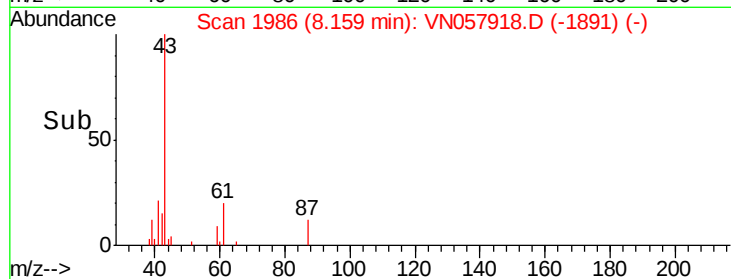
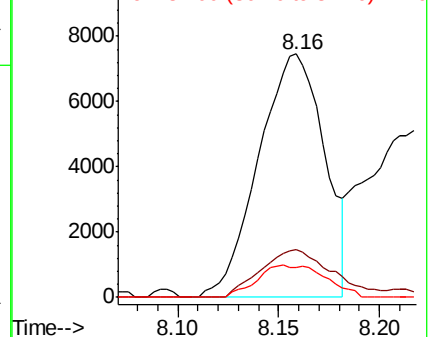
87 13.7 9.5 14.3



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



#48

Methyl methacrylate

Concen: 0.870 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.01 min

Lab File: VN057918.D

Acq: 11 Sep 2019 12:29

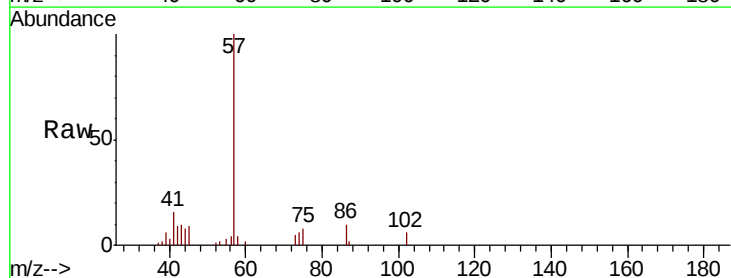
Tgt Ion: 41 Resp: 4390

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

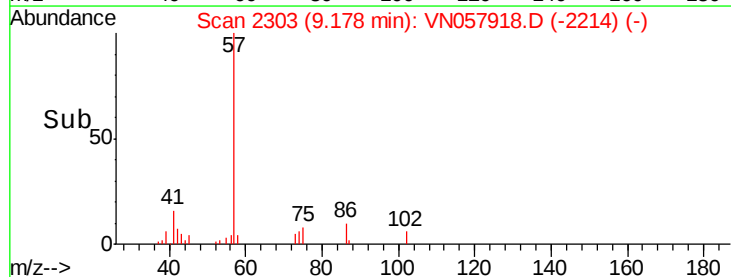
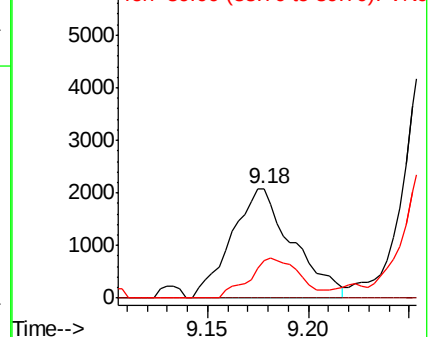
39 30.1 52.7 79.1#

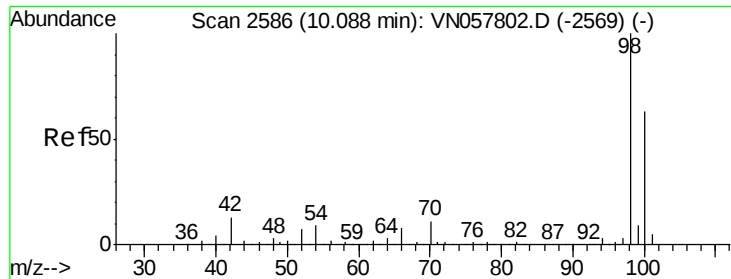


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

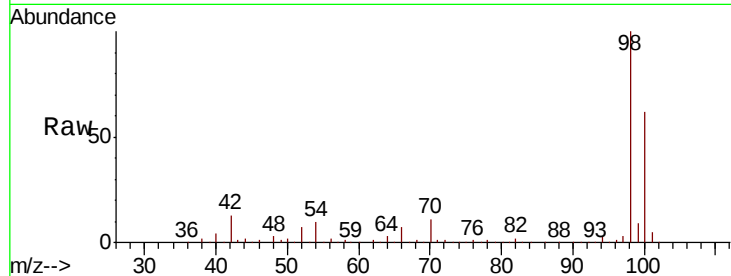




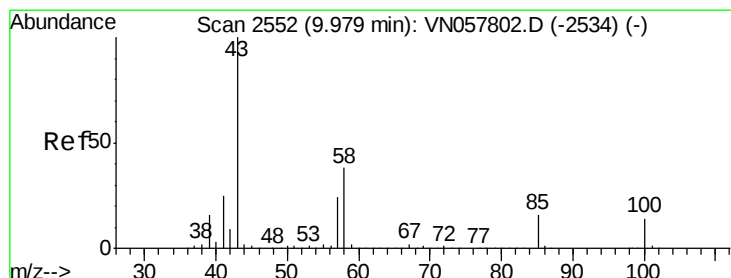
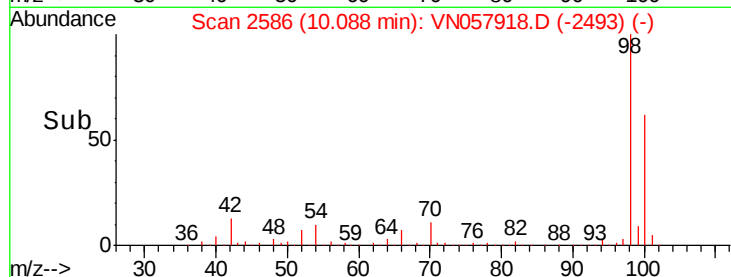
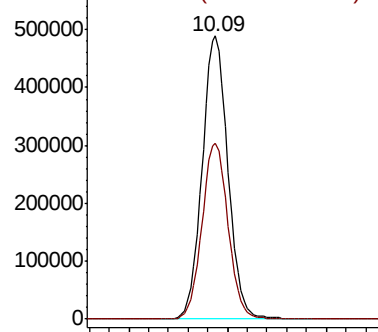
#50  
Toluene-d8  
Concen: 50.475 ug/l  
RT: 10.09 min Scan# 2586  
Delta R.T. -0.00 min  
Lab File: VN057918.D  
Acq: 11 Sep 2019 12:29

Instrument :  
MSVOA\_N  
ClientSampled :  
T11-D3-(0)

Tgt Ion: 98 Resp: 892884  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.3 75.5

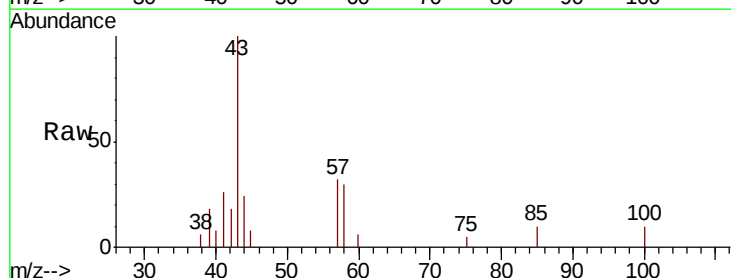


Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)  
Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

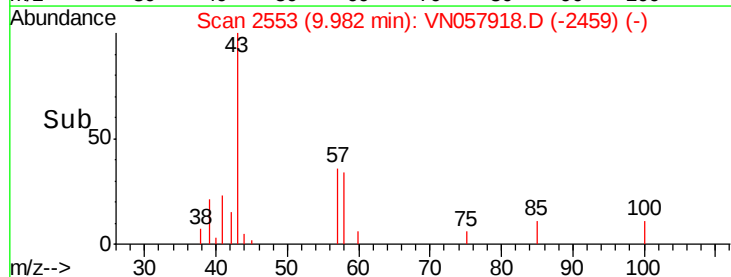
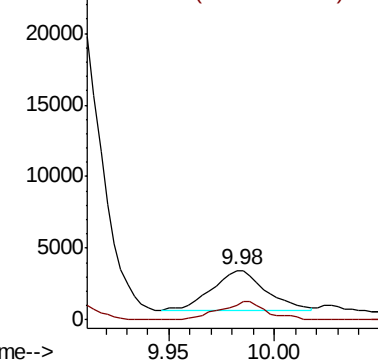


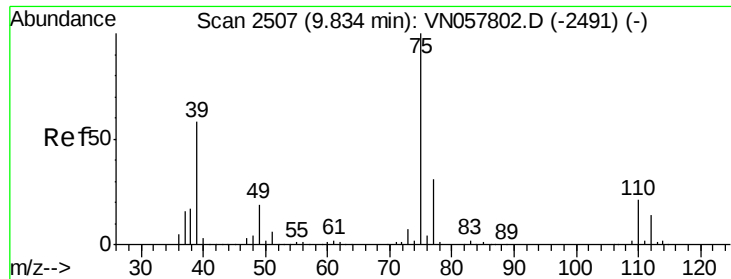
#51  
4-Methyl-2-Pentanone  
Concen: 0.858 ug/l  
RT: 9.98 min Scan# 2553  
Delta R.T. 0.00 min  
Lab File: VN057918.D  
Acq: 11 Sep 2019 12:29

Tgt Ion: 43 Resp: 5051  
Ion Ratio Lower Upper  
43 100  
58 39.5 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)  
Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

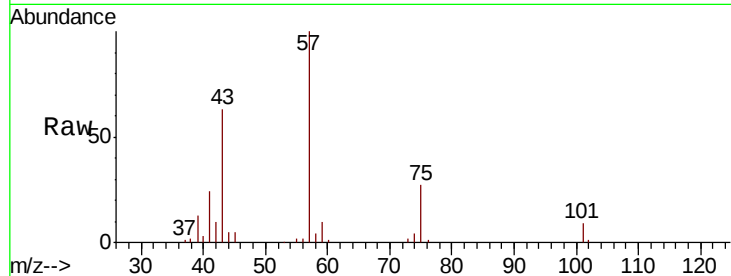




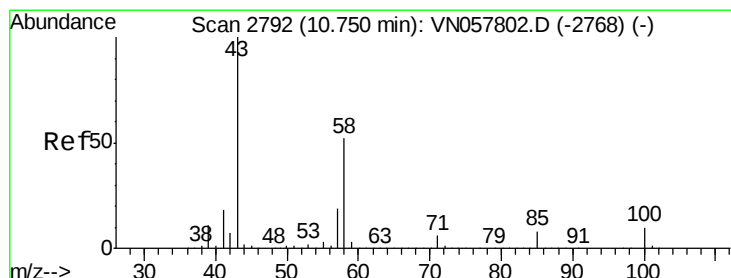
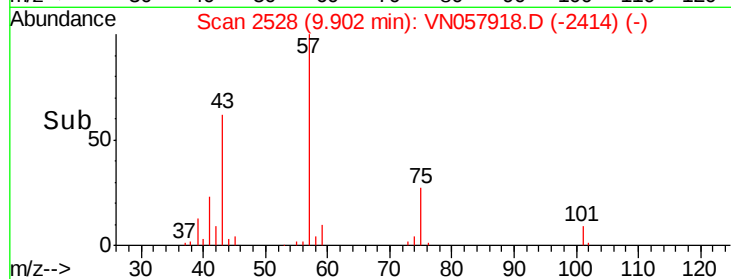
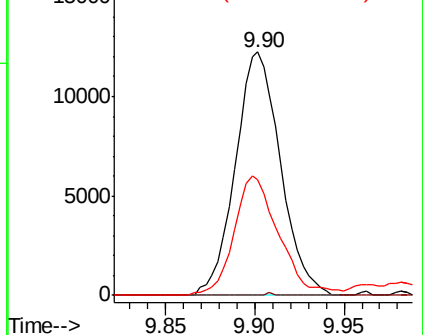
#54  
 cis-1,3-Dichloropropene  
 Concen: 3.062 ug/l  
 RT: 9.90 min Scan# 2528  
 Delta R.T. 0.07 min  
 Lab File: VN057918.D  
 Acq: 11 Sep 2019 12:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T11-D3-(0)

Tgt Ion: 75 Resp: 21542  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.8 37.2#  
 39 47.4 46.2 69.4

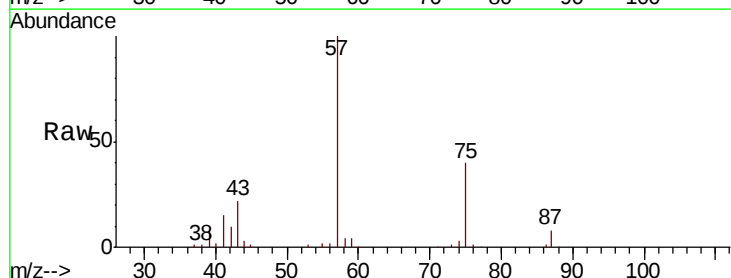


Abundance Ion 74.90 (74.60 to 75.60): VN0  
 Ion 76.90 (76.60 to 77.60): VN0  
 Ion 39.00 (38.70 to 39.70): VN0

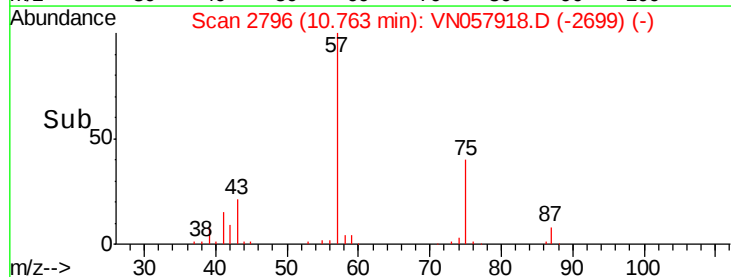
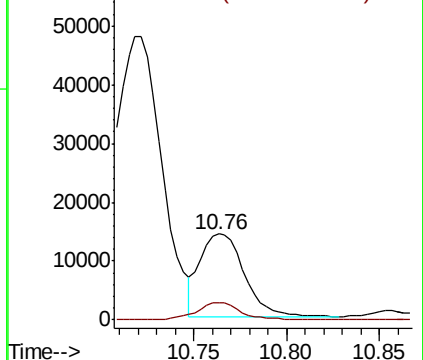


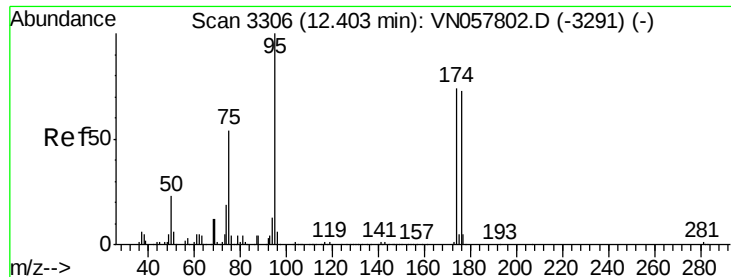
#59  
 2-Hexanone  
 Concen: 5.310 ug/l  
 RT: 10.76 min Scan# 2796  
 Delta R.T. 0.01 min  
 Lab File: VN057918.D  
 Acq: 11 Sep 2019 12:29

Tgt Ion: 43 Resp: 23429  
 Ion Ratio Lower Upper  
 43 100  
 58 20.5 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0  
 Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 43.485 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057918.D

Acq: 11 Sep 2019 12:29

Instrument :

MSVOA\_N

ClientSampleId :

T11-D3-(0)

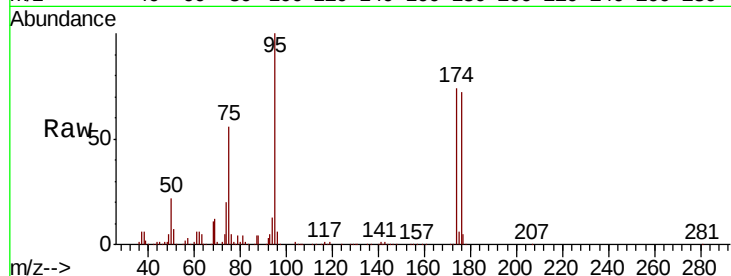
Tgt Ion: 95 Resp: 293145

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.2

176 72.9 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.40

200000

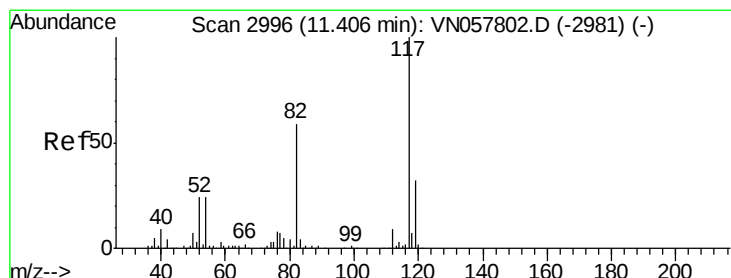
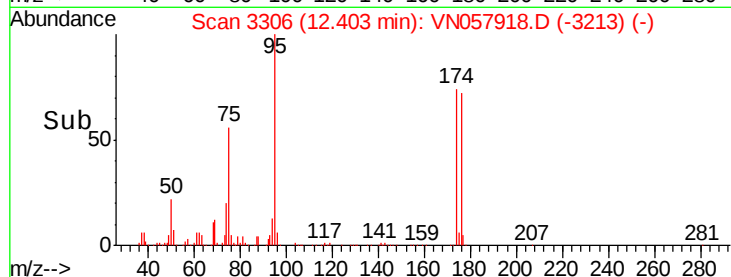
150000

100000

50000

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: VN057918.D

Acq: 11 Sep 2019 12:29

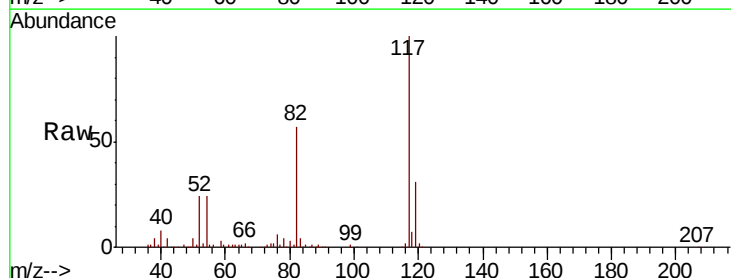
Tgt Ion: 117 Resp: 452020

Ion Ratio Lower Upper

117 100

82 57.3 47.2 70.8

119 31.2 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

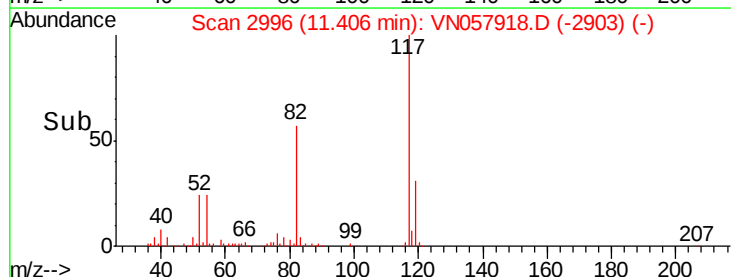
300000

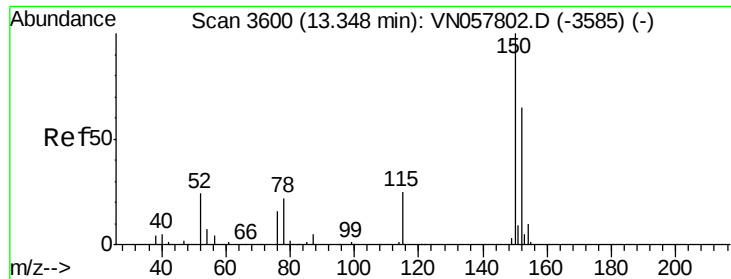
200000

100000

0

Time--> 11.30 11.40 11.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057918.D

Acq: 11 Sep 2019 12:29

Instrument :

MSVOA\_N

ClientSampleId :

T11-D3-(0)

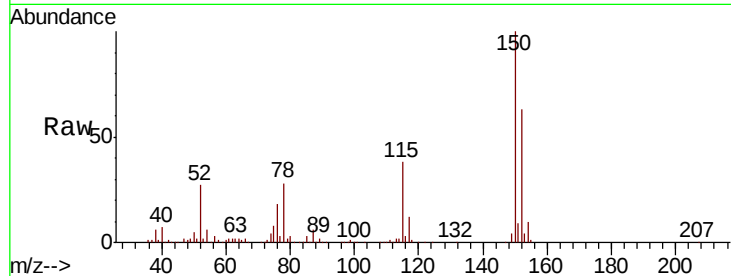
Tgt Ion:152 Resp: 229805

Ion Ratio Lower Upper

152 100

115 60.6 30.3 91.0

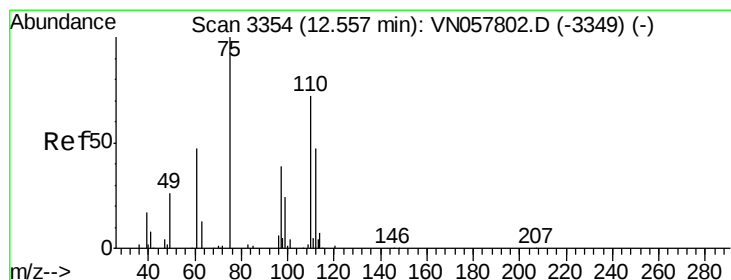
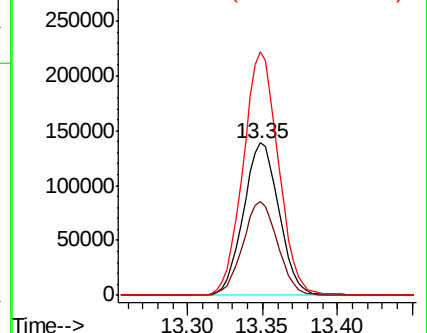
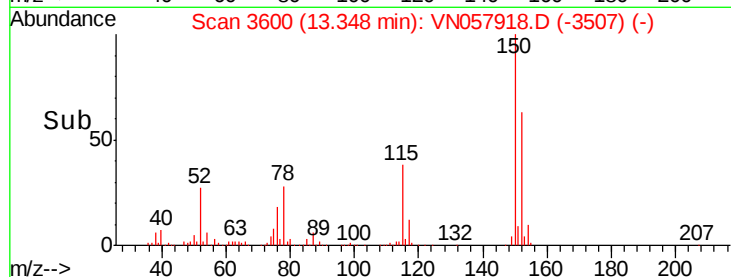
150 159.0 0.0 352.4



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: 31.249 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057918.D

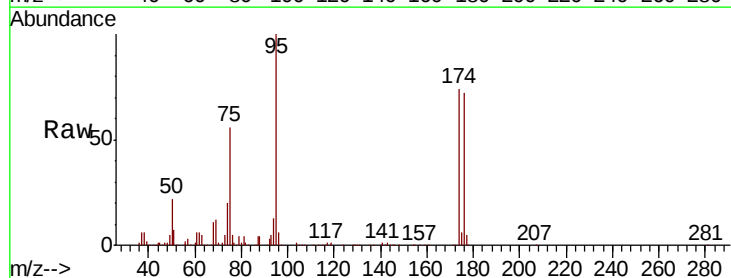
Acq: 11 Sep 2019 12:29

Tgt Ion: 75 Resp: 162449

Ion Ratio Lower Upper

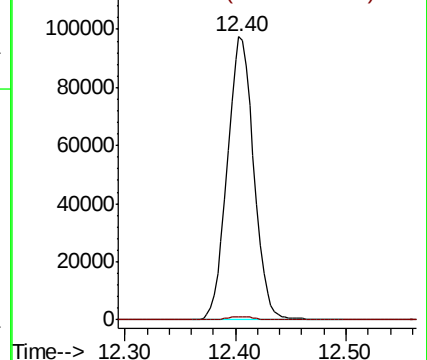
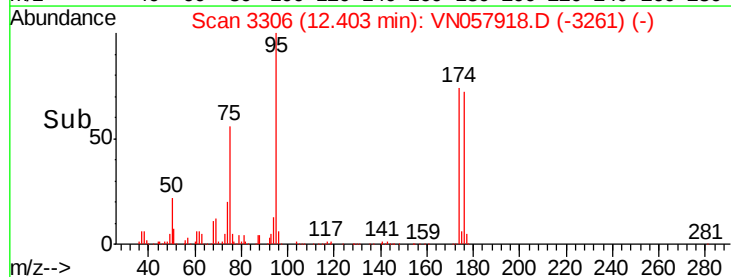
75 100

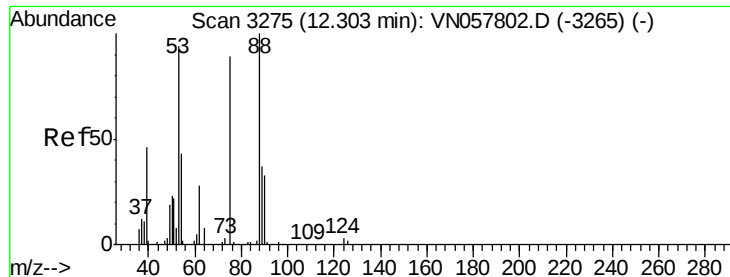
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

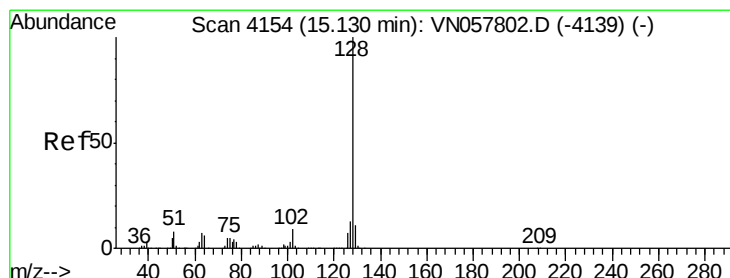
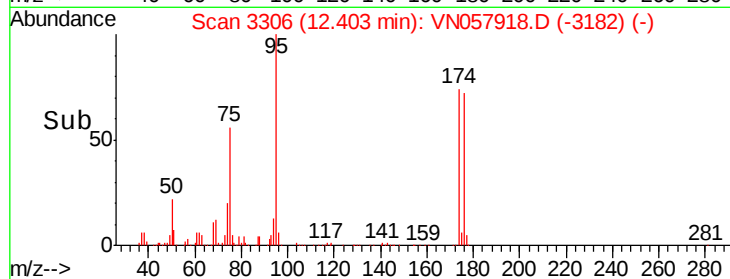
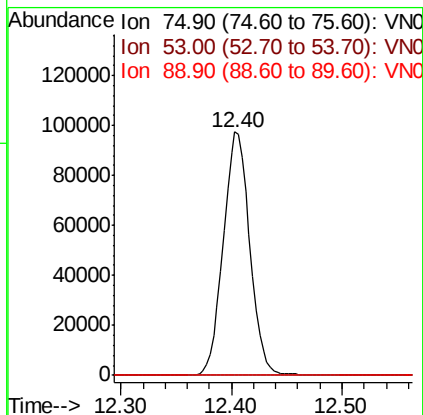
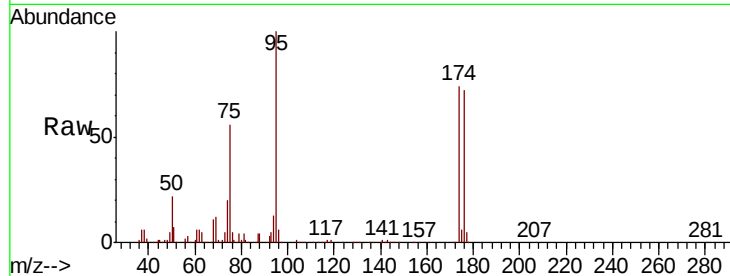




#81  
trans-1,4-Dichloro-2-butene  
Concen: 109.965 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.10 min  
Lab File: VN057918.D  
Acq: 11 Sep 2019 12:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
T11-D3-(0)

Tgt Ion: 75 Resp: 162449  
Ion Ratio Lower Upper  
75 100  
53 0.0 88.4 132.6#  
89 0.0 35.3 52.9#



#95  
Naphthalene  
Concen: Below Cal  
RT: 15.14 min Scan# 4156  
Delta R.T. 0.01 min  
Lab File: VN057918.D  
Acq: 11 Sep 2019 12:29

Tgt Ion: 128 Resp: 829  
Ion Ratio Lower Upper  
128 100  
127 3.6 10.3 15.5#  
129 0.0 8.6 12.8#

