

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032419\  
 Data File : VN054643.D  
 Acq On : 24 Mar 2019 13:03  
 Operator : JC/SP  
 Sample : K2047-03  
 Misc : 6.46g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 25 06:11:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 537029   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 852285   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 733596   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 305376   | 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   | 342050   | 51.21  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 102.42% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 255435   | 46.52  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 93.04%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1038562  | 50.31  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.62% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 335302   | 47.74  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.48%  |          |

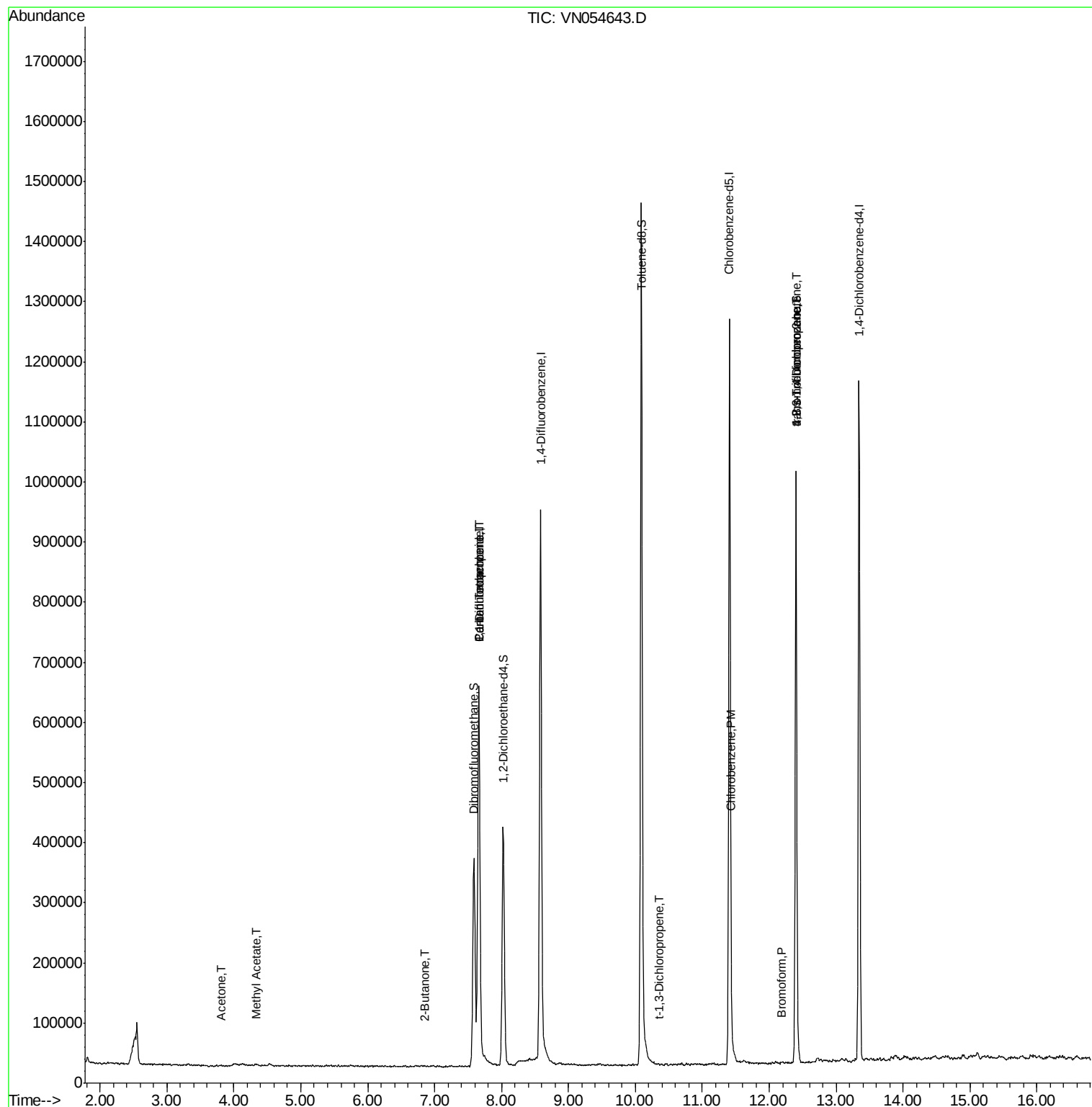
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.81  | 43   | 710      | 0.354     | ug/l # | 86     |
| 18) Methyl Acetate             | 4.33  | 43   | 2976     | 0.665     | ug/l # | 73     |
| 25) 2-Butanone                 | 6.86  | 43   | 1520     | 0.591     | ug/l # | 46     |
| 31) Cyclohexane                | 7.66  | 56   | 10975    | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 39857    | 5.002     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 51164    | 6.607     | ug/l # | 16     |
| 53) t-1,3-Dichloropropene      | 10.36 | 75   | 66       | 2.240     | ug/l # | 42     |
| 65) Chlorobenzene              | 11.44 | 112  | 5648     | 0.379     | ug/l   | 92     |
| 71) Bromoform                  | 12.18 | 173  | 106      | 2.248     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 171574   | 35.406    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 171574   | 117.487   | ug/l # | 11     |

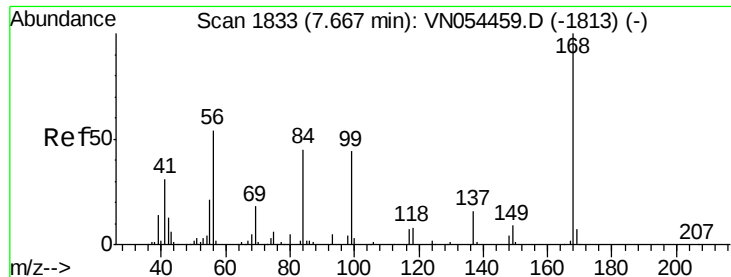
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Mar 25 06:11:50 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 22 02:09:07 2019  
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: VN054643.D

Acq: 24 Mar 2019 13:03

Instrument :

MSVOA\_N

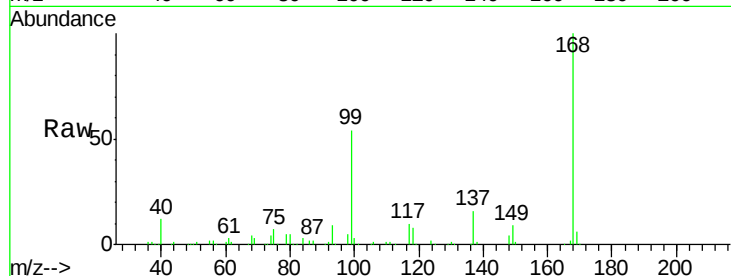
ClientSampled :

Tot Ion:168 Resp: 537029

Ion Ratio Lower Upper

168 100

99 53.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

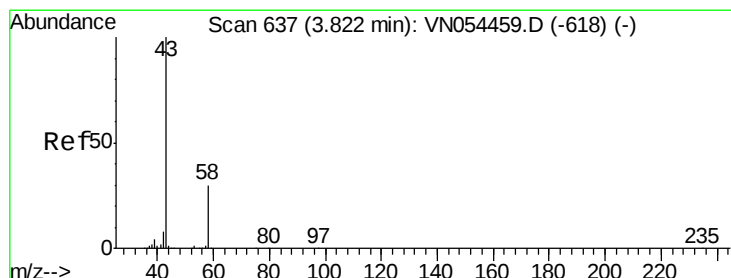
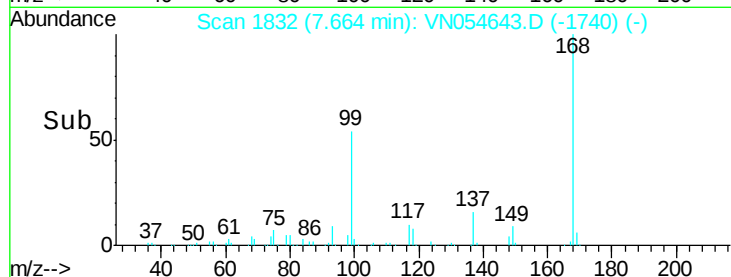
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 0.354 ug/l

RT: 3.81 min Scan# 633

Delta R.T. -0.01 min

Lab File: VN054643.D

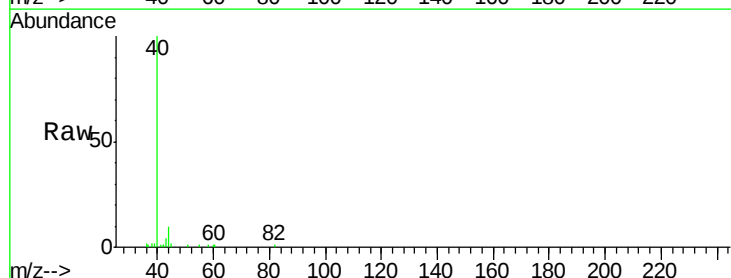
Acq: 24 Mar 2019 13:03

Tgt Ion: 43 Resp: 710

Ion Ratio Lower Upper

43 100

58 45.8 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.81

1200

1000

800

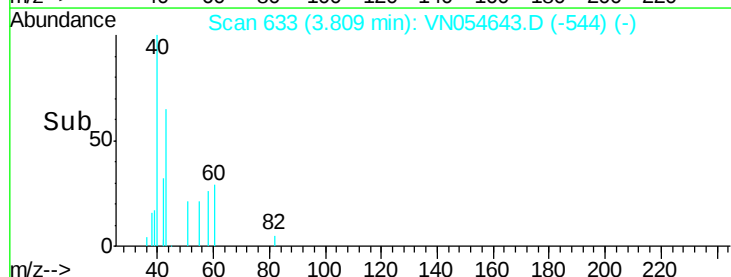
600

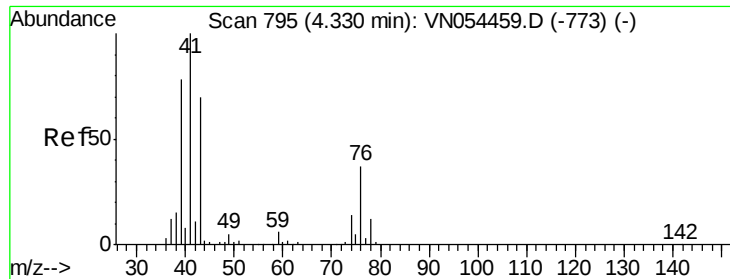
400

200

0

Time-->

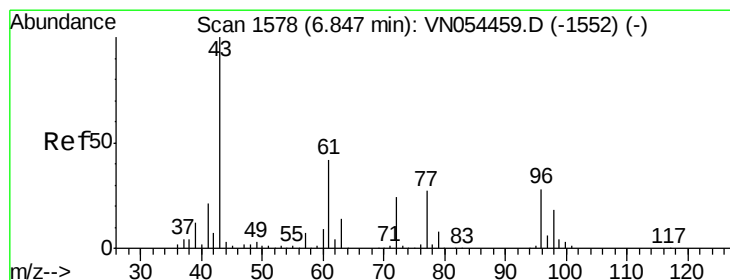
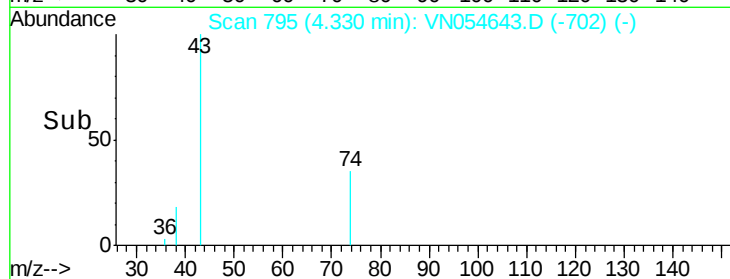
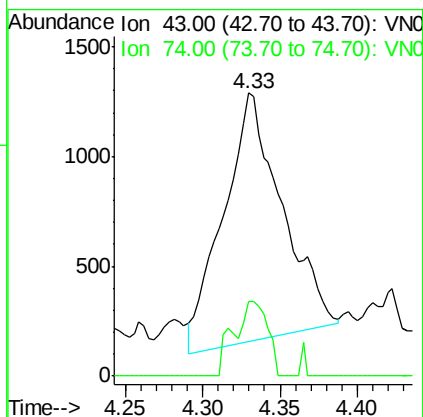
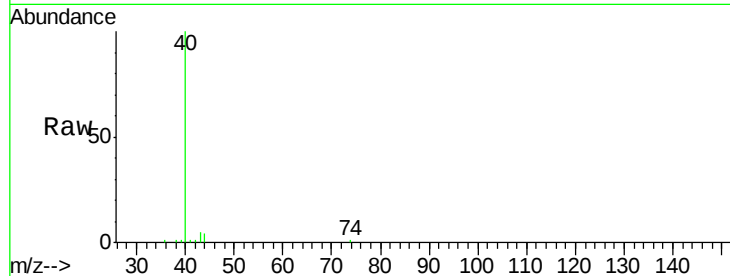




#18  
Methvl Acetate  
Concen: 0.665 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: VN054643.D  
Acq: 24 Mar 2019 13:03

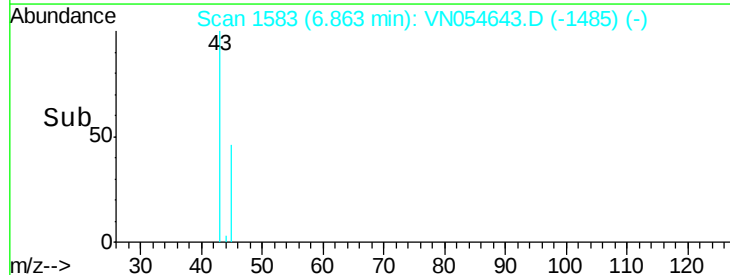
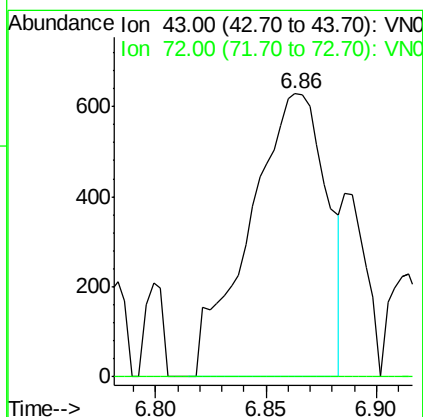
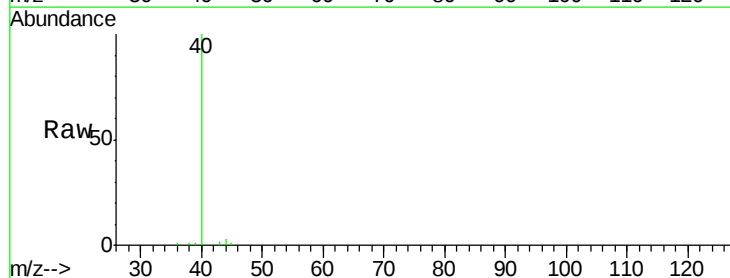
Instrument :  
MSVOA\_N  
ClientSampled :

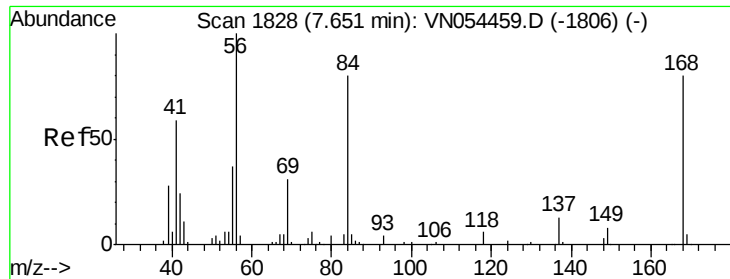
Tot Ion: 43 Resp: 2976  
Ion Ratio Lower Upper  
43 100  
74 12.3 20.8 31.2#



#25  
2-Butanone  
Concen: 0.591 ug/l  
RT: 6.86 min Scan# 1583  
Delta R.T. 0.02 min  
Lab File: VN054643.D  
Acq: 24 Mar 2019 13:03

Tgt Ion: 43 Resp: 1520  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.0 34.6#

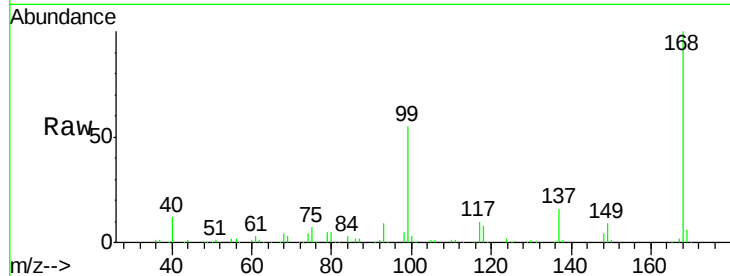




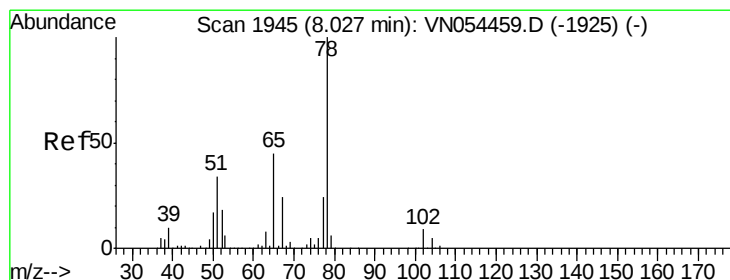
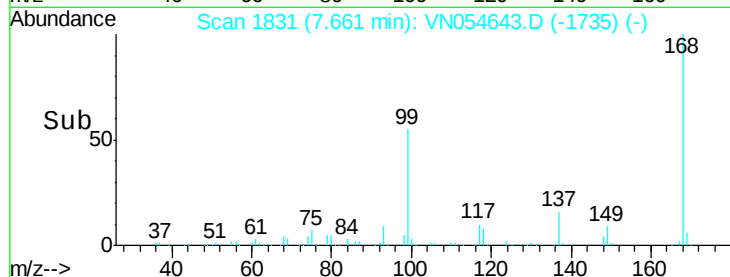
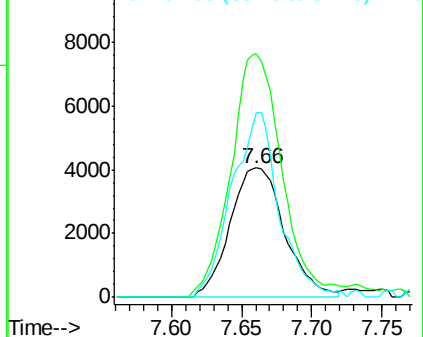
#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.66 min Scan# 1831  
Delta R.T. 0.01 min  
Lab File: VN054643.D  
Acq: 24 Mar 2019 13:03

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 56 Resp: 10975  
Ion Ratio Lower Upper  
56 100  
69 187.9 27.8 41.6#  
84 142.9 74.6 111.8#

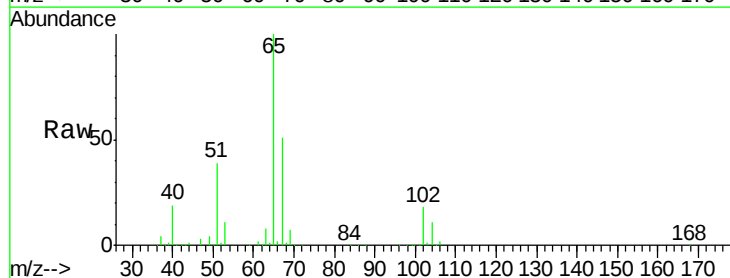


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

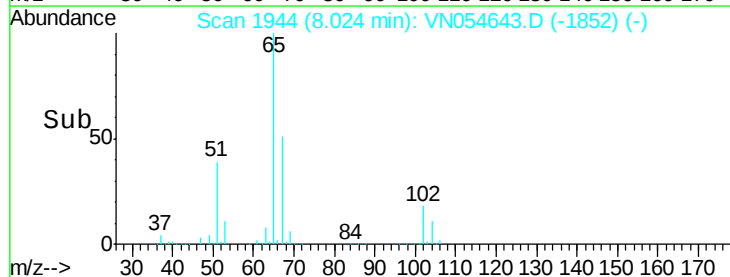
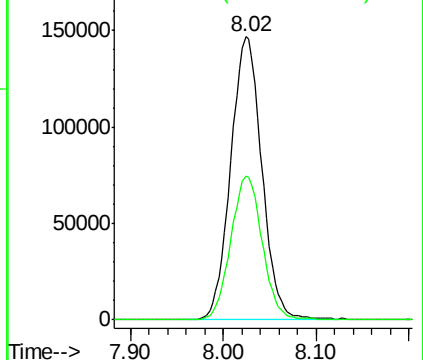


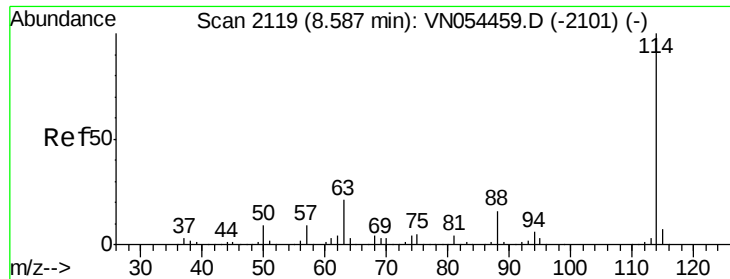
#33  
1,2-Dichloroethane-d4  
Concen: 51.207 ug/l  
RT: 8.02 min Scan# 1944  
Delta R.T. -0.00 min  
Lab File: VN054643.D  
Acq: 24 Mar 2019 13:03

Tgt Ion: 65 Resp: 342050  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 104.6



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# 2118

Delta R.T. -0.00 min

Lab File: VN054643.D

Acq: 24 Mar 2019 13:03

Instrument :

MSVOA\_N

ClientSampleId :

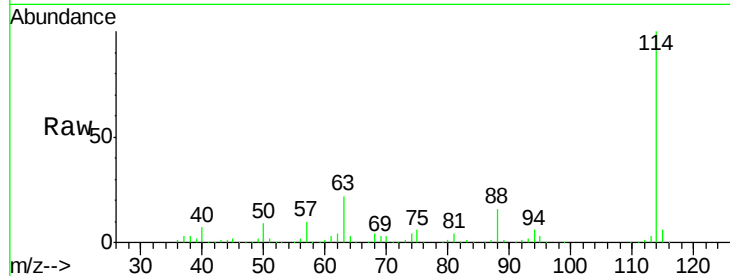
Tot Ion:114 Resp: 852285

Ion Ratio Lower Upper

114 100

63 22.4 0.0 35.2

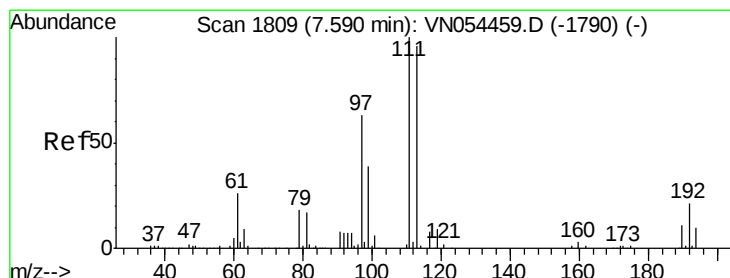
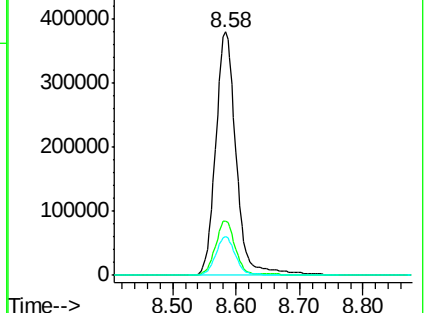
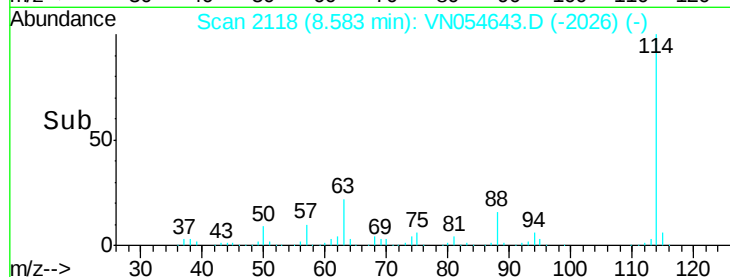
88 15.9 0.0 30.2



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: 46.520 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.00 min

Lab File: VN054643.D

Acq: 24 Mar 2019 13:03

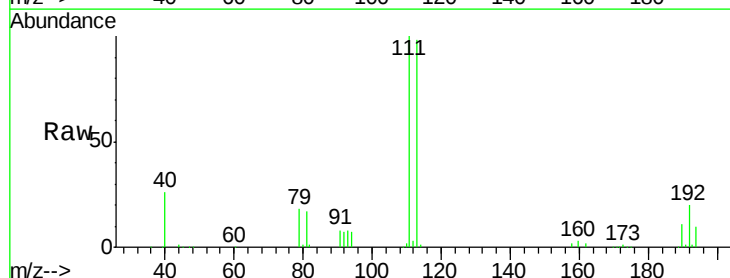
Tgt Ion:113 Resp: 255435

Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.4

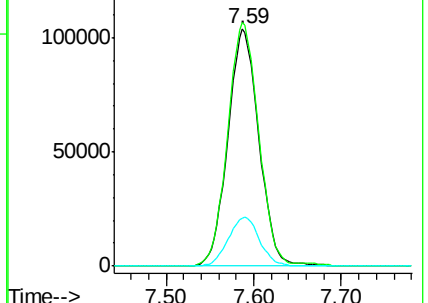
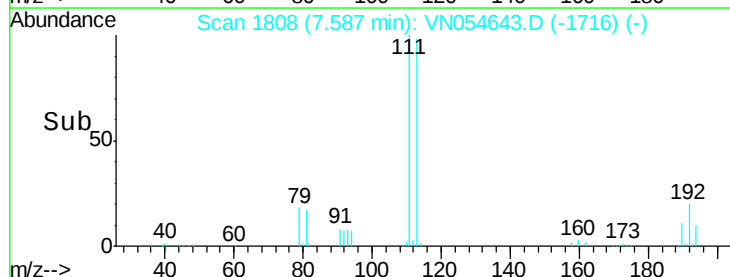
192 20.8 19.2 28.8

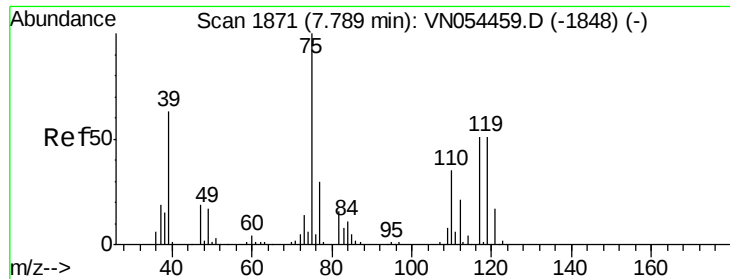


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.002 ug/l

RT: 7.66 min Scan# 1831

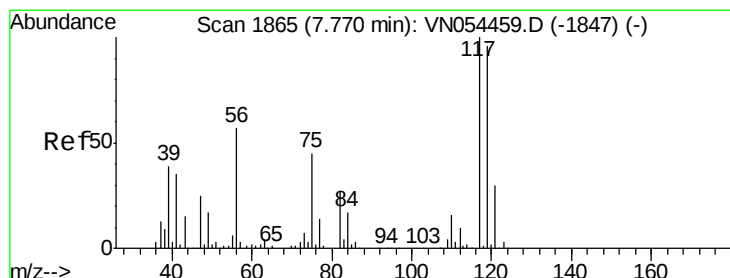
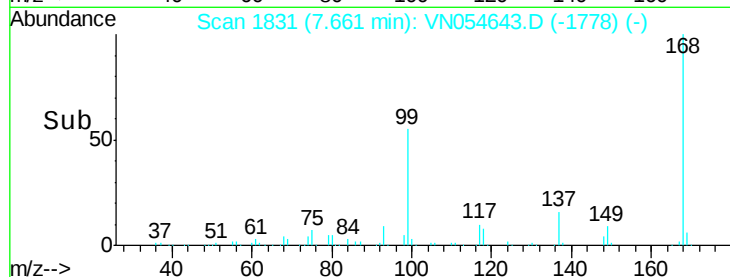
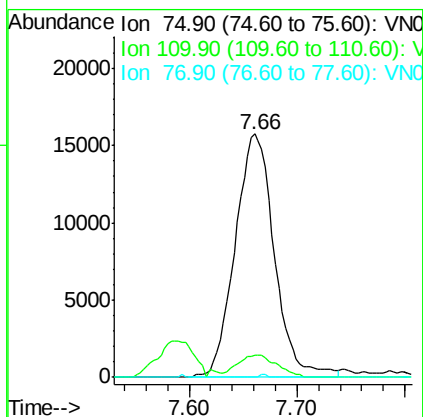
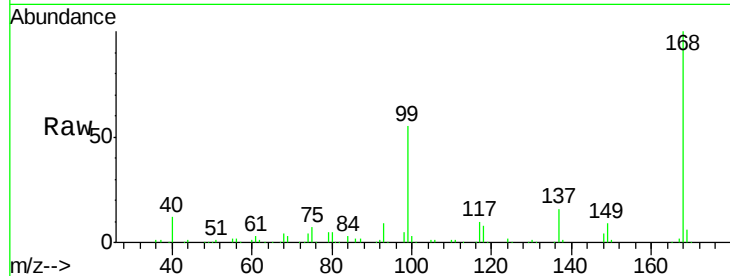
Delta R.T. -0.13 min

Lab File: VN054643.D

Acq: 24 Mar 2019 13:03

Instrument :  
MSVOA\_N  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 39857 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 9.1   | 19.1  | 57.5# |
| 77       | 0.2   | 25.0  | 37.4# |



#38

Carbon Tetrachloride

Concen: 6.607 ug/l

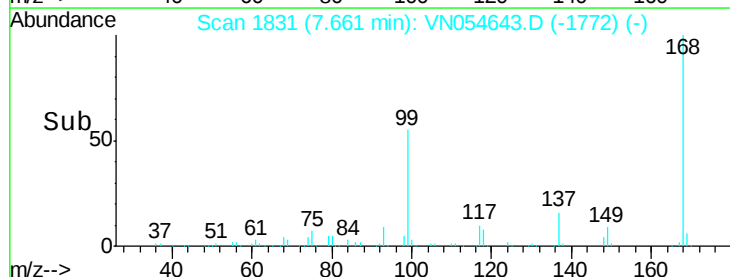
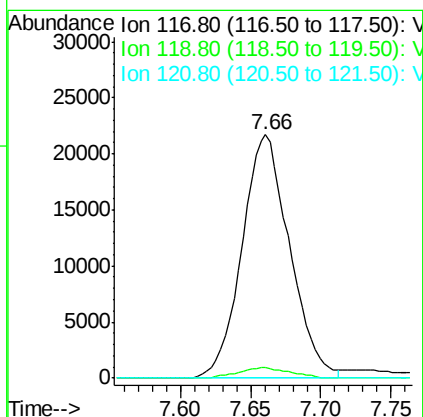
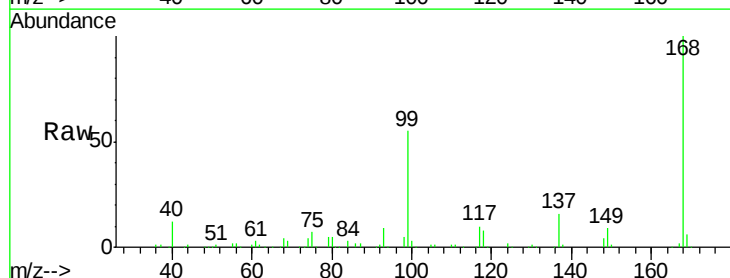
RT: 7.66 min Scan# 1831

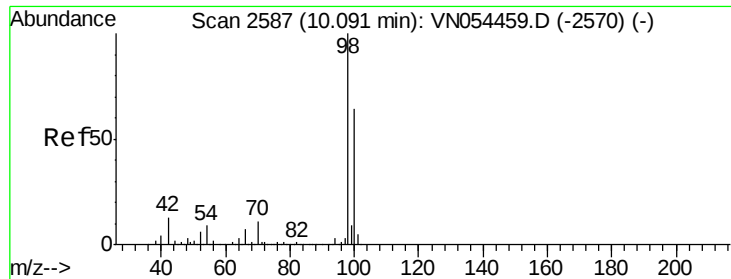
Delta R.T. -0.11 min

Lab File: VN054643.D

Acq: 24 Mar 2019 13:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 51164  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.5   | 76.3  | 114.5# |
| 121      | 0.0   | 24.6  | 36.8#  |





#50

Toluene-d8

Concen: 50.313 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054643.D

Acq: 24 Mar 2019 13:03

Instrument :

MSVOA\_N

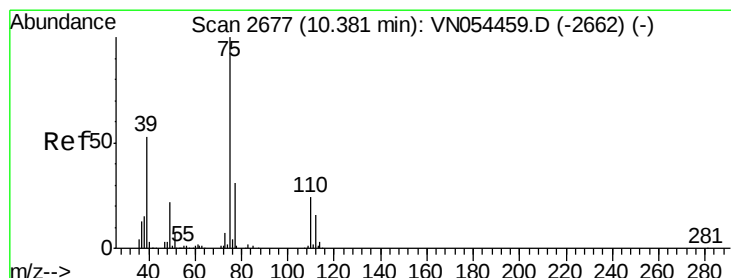
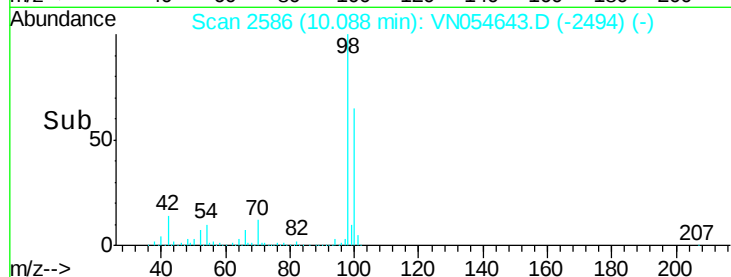
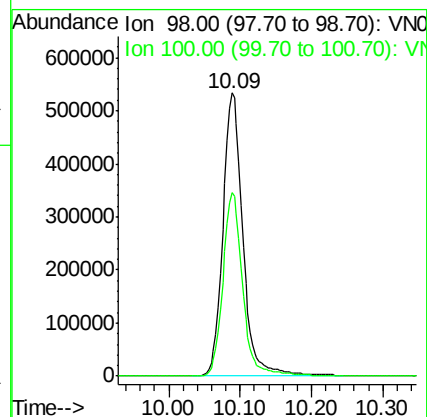
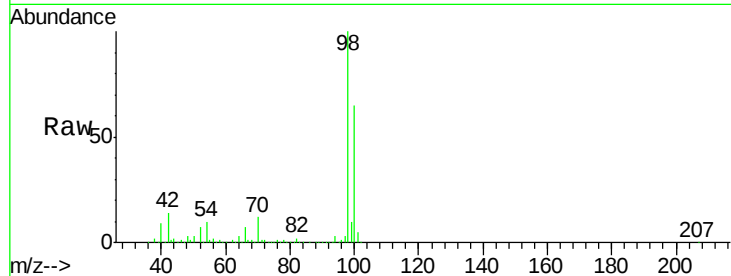
ClientSampleId :

Tot Ion: 98 Resp: 1038562

Ion Ratio Lower Upper

98 100

100 63.8 51.2 76.8



#53

t-1,3-Dichloropropene

Concen: 2.240 ug/l

RT: 10.36 min Scan# 2672

Delta R.T. -0.02 min

Lab File: VN054643.D

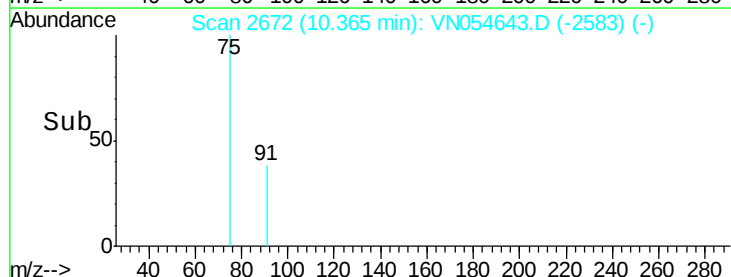
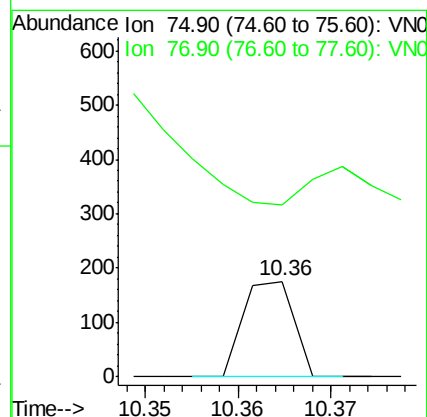
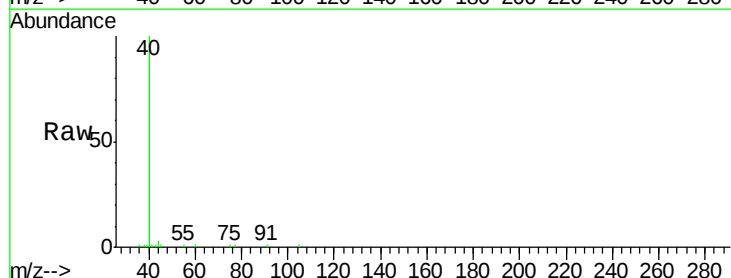
Acq: 24 Mar 2019 13:03

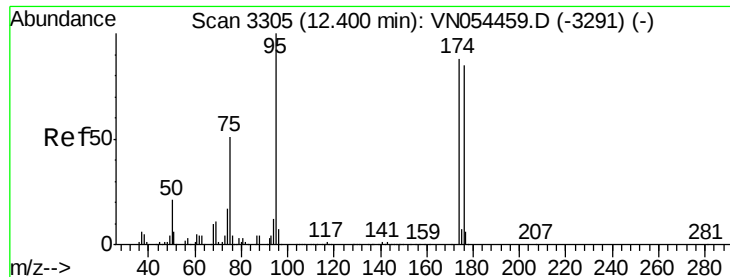
Tgt Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#





#62

4-Bromofluorobenzene

Concen: 47.735 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054643.D

Acq: 24 Mar 2019 13:03

Instrument :

MSVOA\_N

ClientSampled :

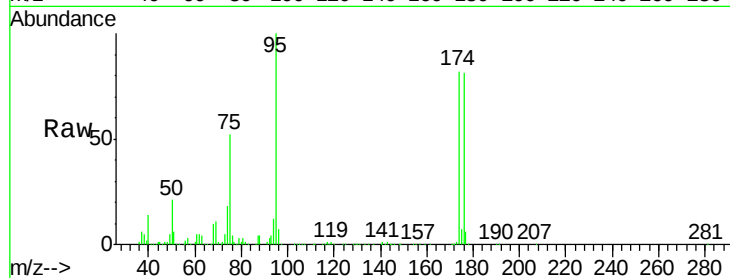
Tot Ion: 95 Resp: 335302

Ion Ratio Lower Upper

95 100

174 82.5 0.0 191.0

176 80.3 0.0 187.4

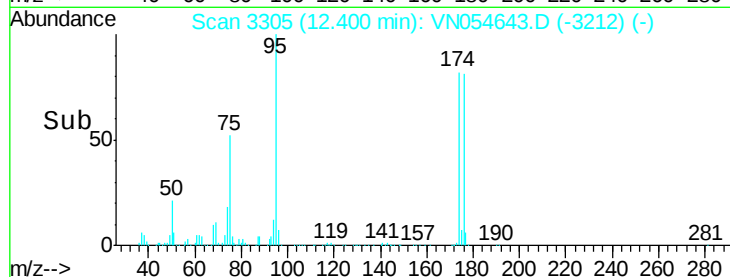


Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)

Time-->

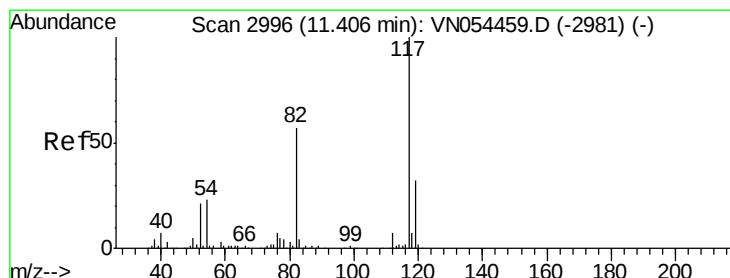


Abundance Ion 94.90 (94.60 to 95.60): VN054643.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054643.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054643.D (-3212) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054643.D

Acq: 24 Mar 2019 13:03

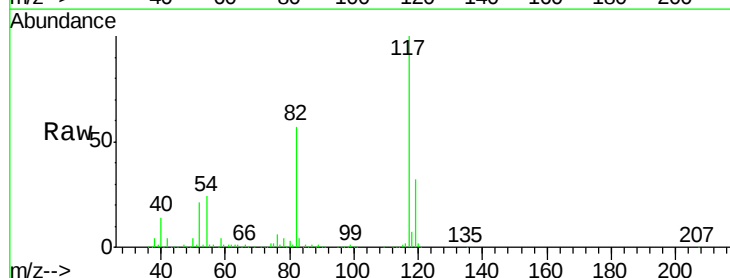
Tgt Ion: 117 Resp: 733596

Ion Ratio Lower Upper

117 100

82 56.7 40.0 60.0

119 32.0 25.8 38.6

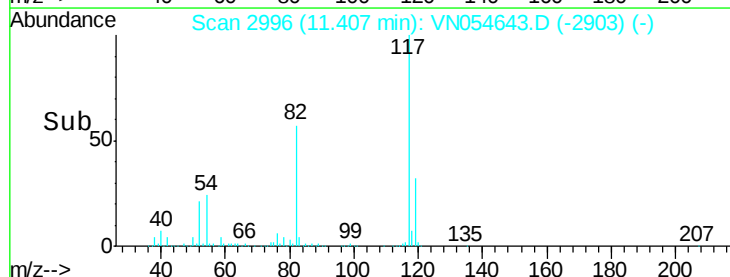


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)

Time-->

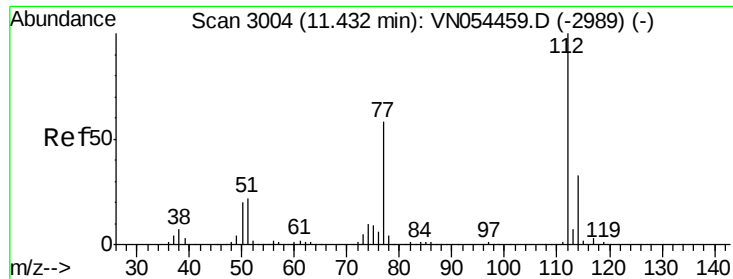


Abundance Ion 116.90 (116.60 to 117.60): VN054643.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054643.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054643.D (-2903) (-)

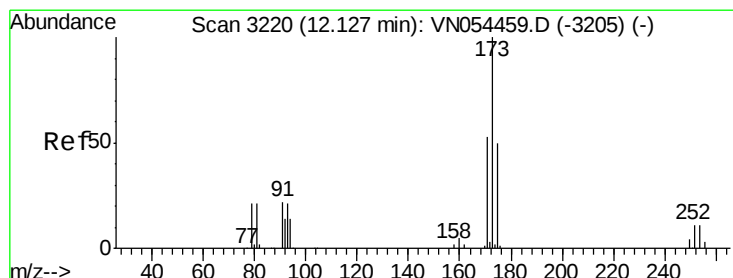
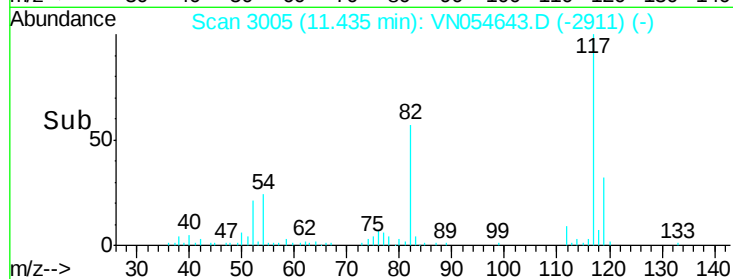
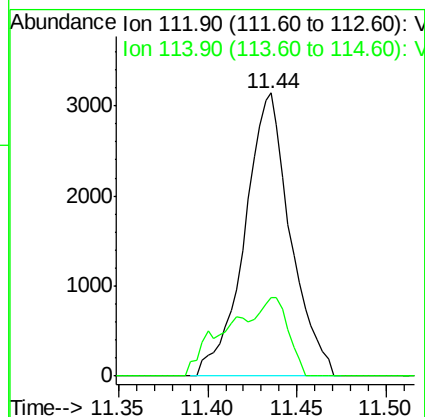
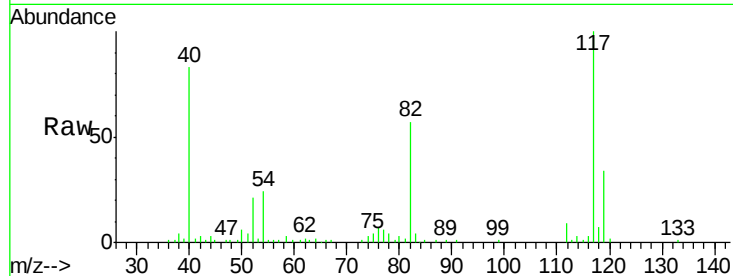
Time-->



#65  
Chlorobenzene  
Concen: 0.379 ug/l  
RT: 11.44 min Scan# 3005  
Delta R.T. 0.00 min  
Lab File: VN054643.D  
Acq: 24 Mar 2019 13:03

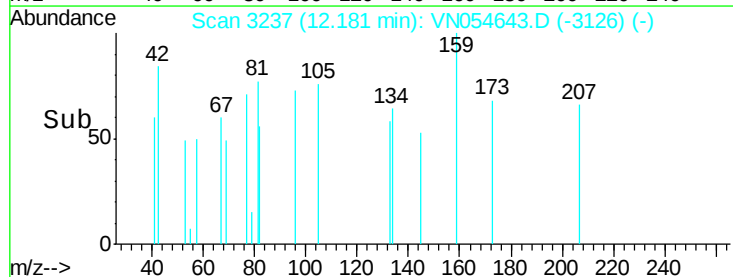
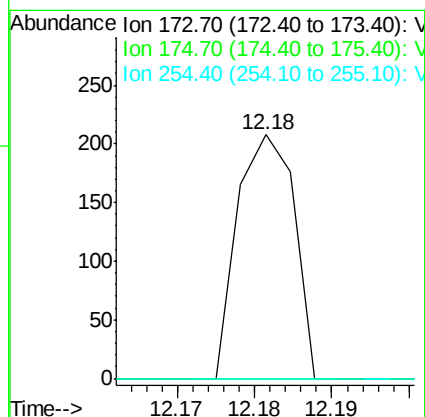
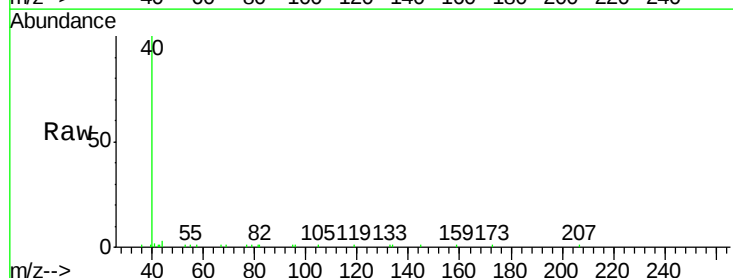
Instrument :  
MSVOA\_N  
ClientSampleId :

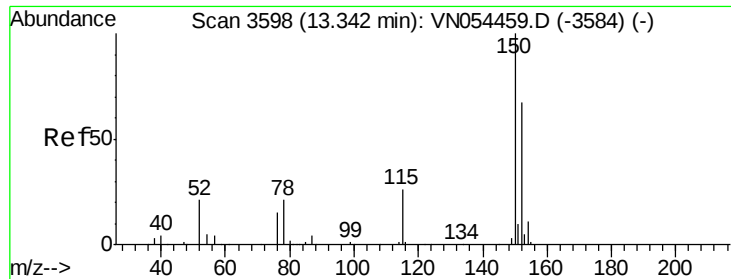
Tot Ion:112 Resp: 5648  
Ion Ratio Lower Upper  
112 100  
114 27.9 25.9 38.9



#71  
Bromoform  
Concen: 2.248 ug/l  
RT: 12.18 min Scan# 3237  
Delta R.T. 0.06 min  
Lab File: VN054643.D  
Acq: 24 Mar 2019 13:03

Tgt Ion:173 Resp: 106  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.4 73.2#  
254 0.0 0.1 0.1#



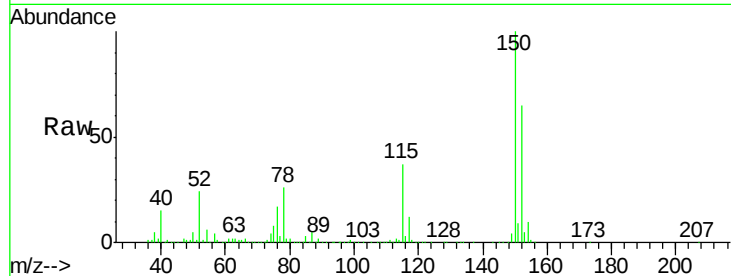


#72

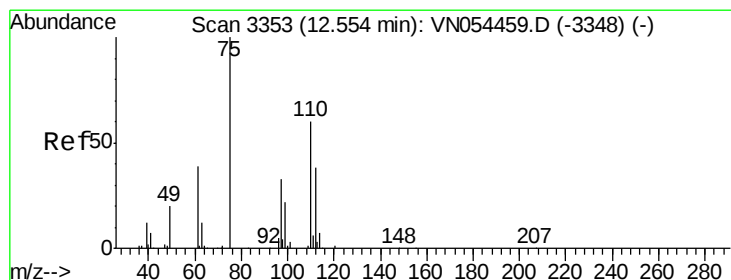
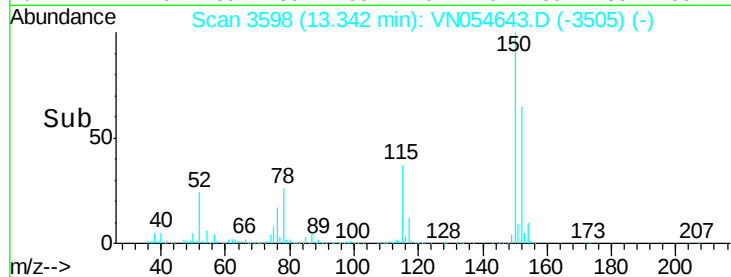
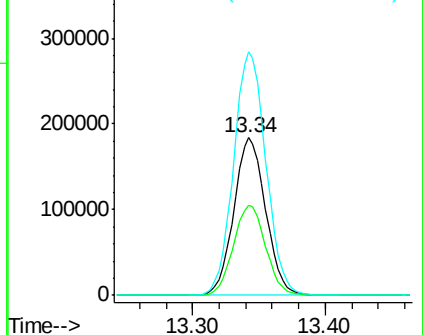
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. 0.00 min  
Lab File: VN054643.D  
Acq: 24 Mar 2019 13:03

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:152 Resp: 305376  
Ion Ratio Lower Upper  
152 100  
115 58.3 27.2 81.6  
150 157.5 0.0 349.2



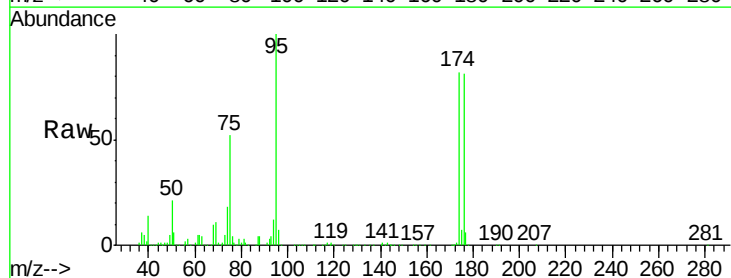
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



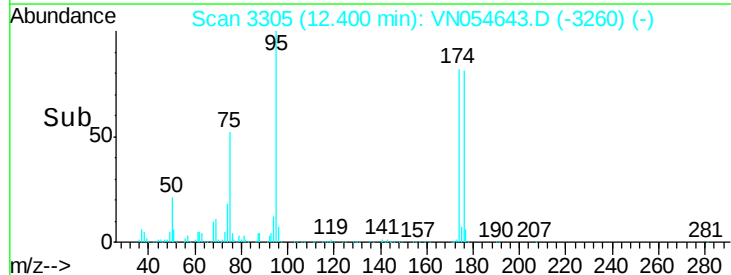
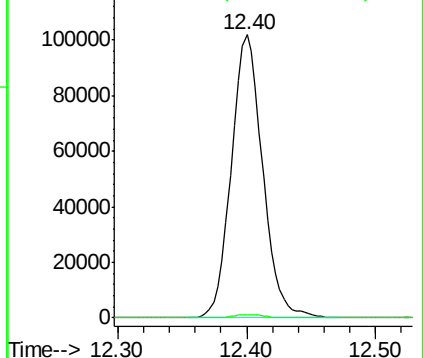
#76

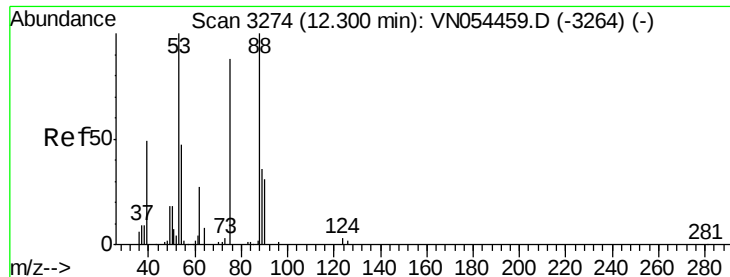
1,2,3-Trichloropropane  
Concen: 35.406 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.15 min  
Lab File: VN054643.D  
Acq: 24 Mar 2019 13:03

Tgt Ion: 75 Resp: 171574  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V  
Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 117.487 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054643.D

Acq: 24 Mar 2019 13:03

Instrument :

MSVOA\_N

ClientSampleId :

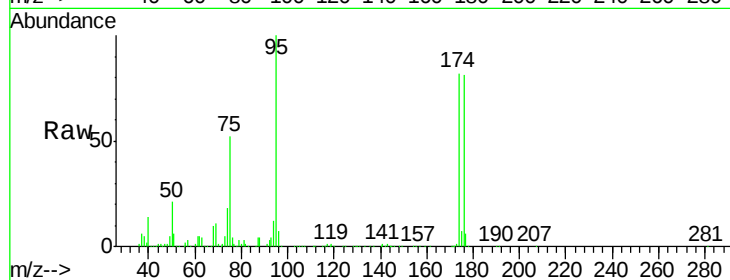
Tot Ion: 75 Resp: 171574

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



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

