

Data File : VU034477.D  
Acq On : 11 Sep 2019 15:17  
Operator : JC/SP  
Sample : K4783-01DL 5X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
38150-122118DL

Quant Time: Sep 12 03:50:42 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U091119DW.M  
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Thu Sep 12 02:53:57 2019  
Response via : Initial Calibration

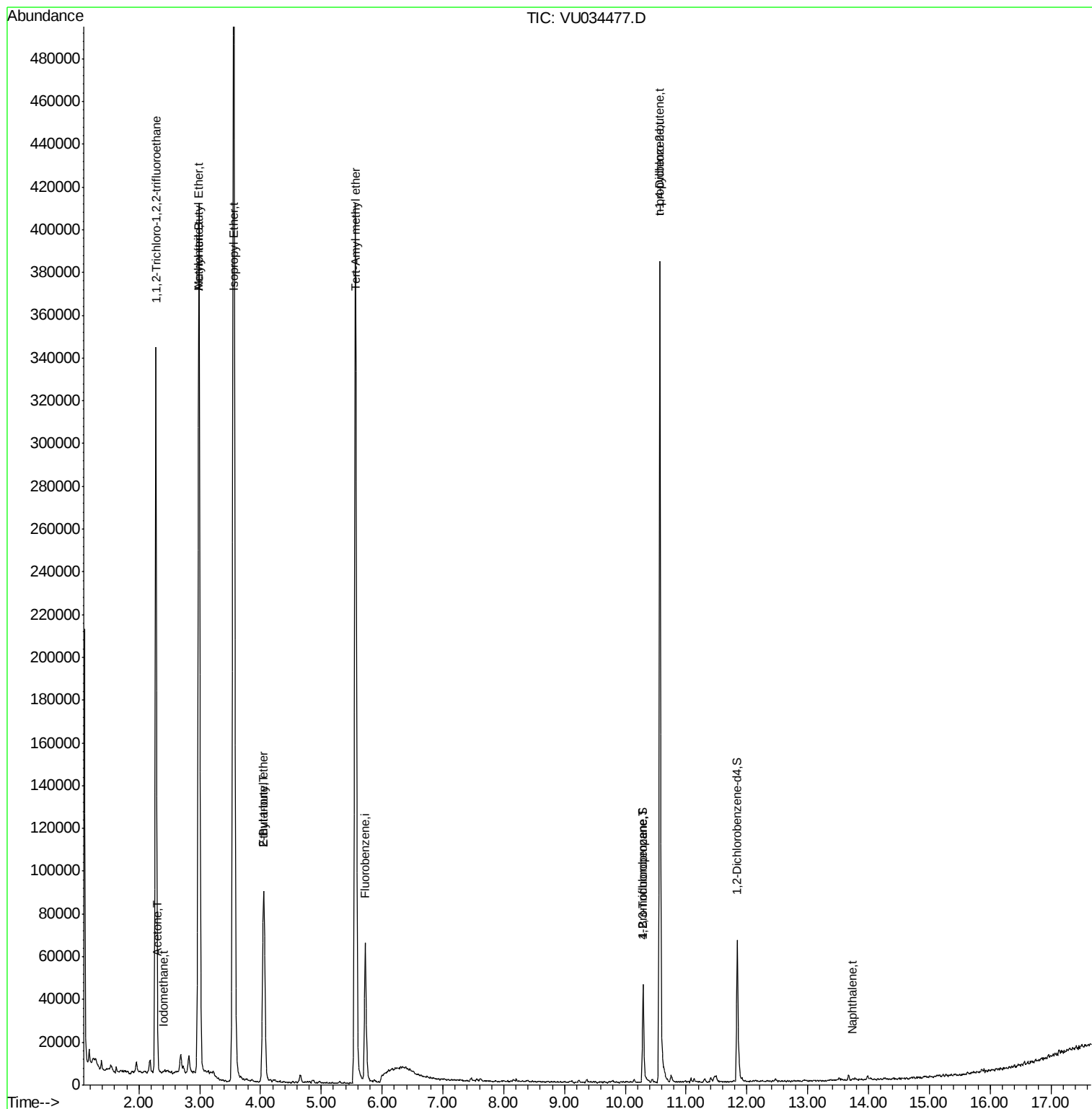
| Internal Standards            | R.T.  | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-------|-------|----------|-----------|--------|----------|
| -----                         | ----- | ----- | -----    | -----     | -----  | -----    |
| 1) Fluorobenzene              | 5.72  | 96    | 65035    | 1.00      | ug/l   | 0.00     |
| System Monitoring Compounds   |       |       |          |           |        |          |
| 57) 4-Bromofluorobenzene      | 10.29 | 95    | 18056    | 0.72      | ug/l   | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =         | 72.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.84 | 152   | 21275    | 0.78      | ug/l   | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =         | 78.00% |          |
| Target Compounds              |       |       |          |           |        |          |
|                               |       |       |          |           | Qvalue |          |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.28  | 101   | 129229   | 7.525     | ug/l   | 99       |
| 10) Iodomethane               | 2.41  | 142   | 516      | 0.479     | ug/l # | 34       |
| 12) Acrylonitrile             | 2.99  | 53    | 4527     | 1.255     | ug/l # | 31       |
| 13) Acetone                   | 2.32  | 43    | 797      | 0.265     | ug/l # | 77       |
| 18) 2-Butanone                | 4.05  | 43    | 11134    | 2.567     | ug/l # | 1        |
| 24) tert-Butyl Alcohol        | 2.82  | 59    | 8442     | Below Cal | #      | 75       |
| 25) Methyl tert-Butyl Ether   | 2.99  | 73    | 442285   | 10.663    | ug/l   | 100      |
| 31) Isopropyl Ether           | 3.56  | 45    | 533527   | 10.036    | ug/l   | 99       |
| 32) Ethyl-t-butyl ether       | 4.05  | 59    | 98284    | 2.161     | ug/l   | 100      |
| 33) Tert-Amyl methyl ether    | 5.56  | 73    | 345963   | 9.079     | ug/l   | 99       |
| 46) t-1,4-Dichloro-2-butene   | 10.57 | 75    | 2015     | 0.512     | ug/l # | 1        |
| 71) 1,2,3-Trichloropropane    | 10.29 | 75    | 8052     | 0.652     | ug/l # | 48       |
| 73) n-propylbenzene           | 10.57 | 120   | 70337    | 2.968     | ug/l   | 92       |
| 89) Naphthalene               | 13.74 | 128   | 497      | 0.786     | ug/l # | 70       |
| -----                         | ----- | ----- | -----    | -----     | -----  | -----    |

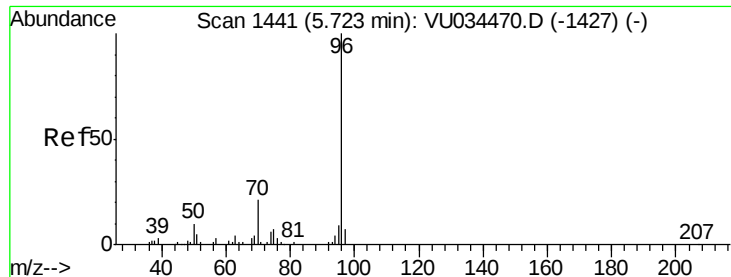
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 12 02:53:57 2019  
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VU034477.D

Acq: 11 Sep 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

38150-122118DL

Tgt Ion: 96 Resp: 65035

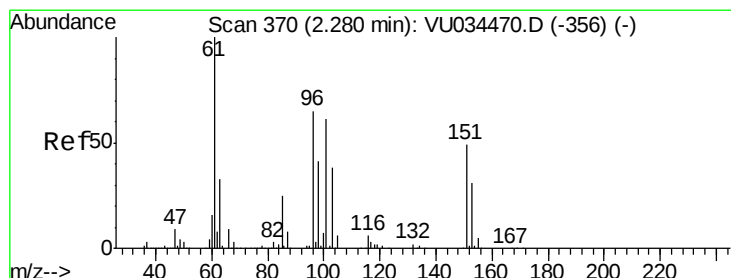
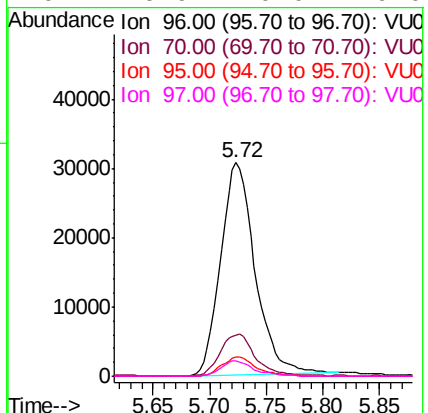
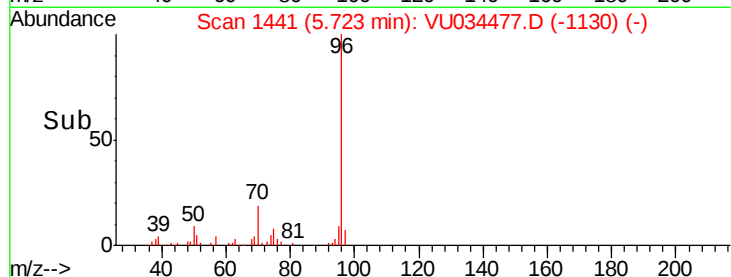
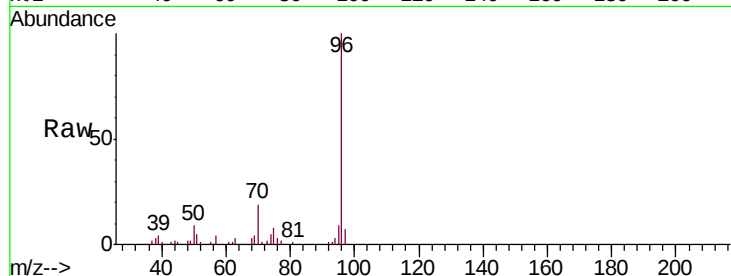
Ion Ratio Lower Upper

96 100

70 19.8 16.5 24.7

95 9.1 7.0 10.6

97 6.9 0.0 0.0#



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 7.525 ug/l

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU034477.D

Acq: 11 Sep 2019 15:17

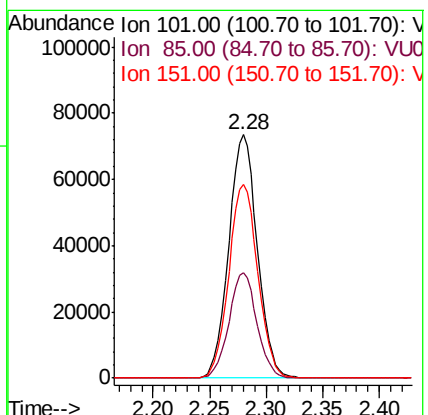
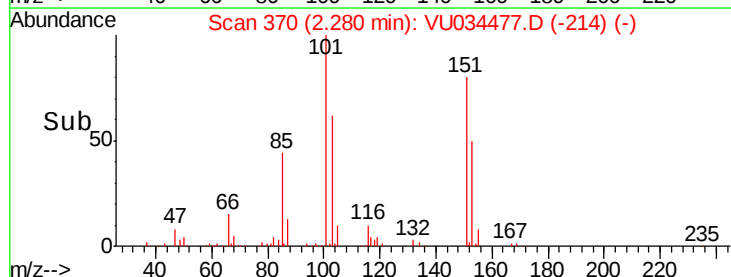
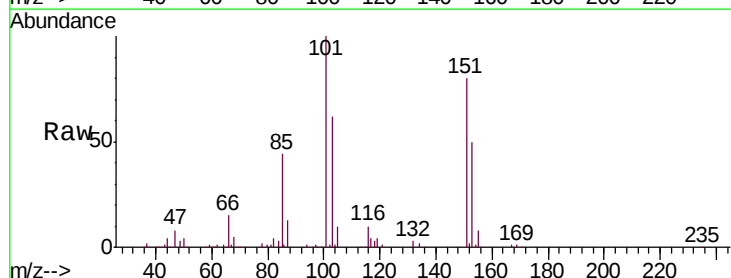
Tgt Ion: 101 Resp: 129229

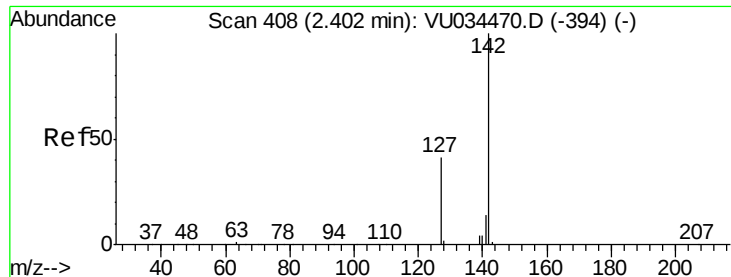
Ion Ratio Lower Upper

101 100

85 42.4 34.2 51.2

151 80.9 65.2 97.8





#10

Iodomethane

Concen: 0.479 ug/l

RT: 2.41 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU034477.D

Acq: 11 Sep 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

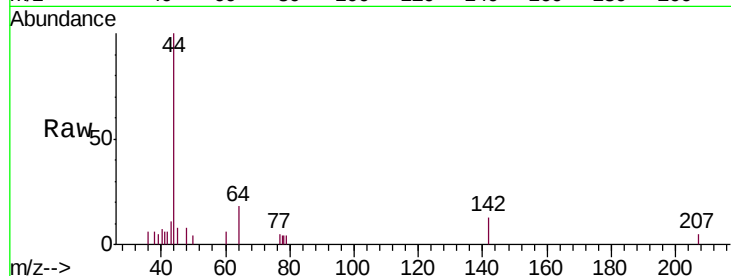
38150-122118DL

Tgt Ion:142 Resp: 516

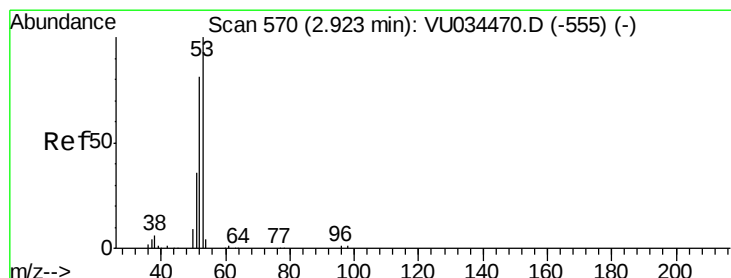
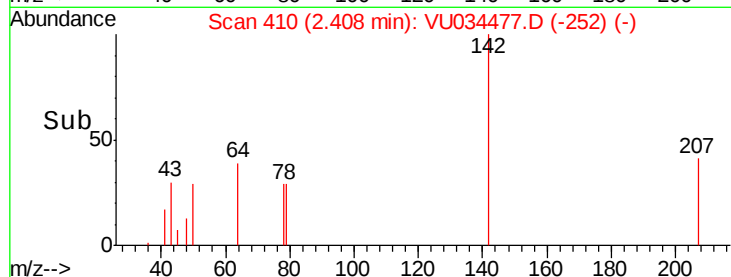
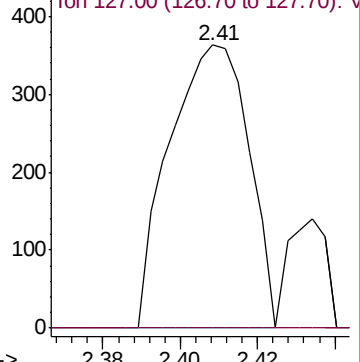
Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#



Abundance Ion 142.00 (141.70 to 142.70): V



#12

Acrylonitrile

Concen: 1.255 ug/l

RT: 2.99 min Scan# 591

Delta R.T. 0.07 min

Lab File: VU034477.D

Acq: 11 Sep 2019 15:17

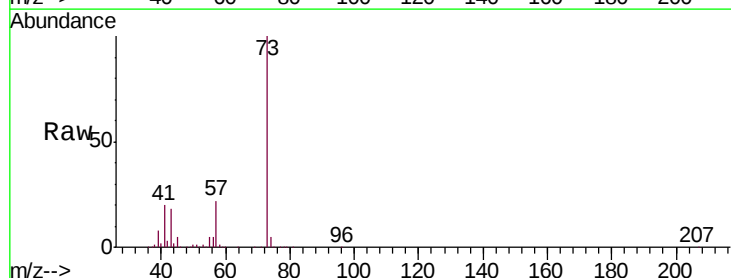
Tgt Ion: 53 Resp: 4527

Ion Ratio Lower Upper

53 100

52 23.1 66.9 100.3#

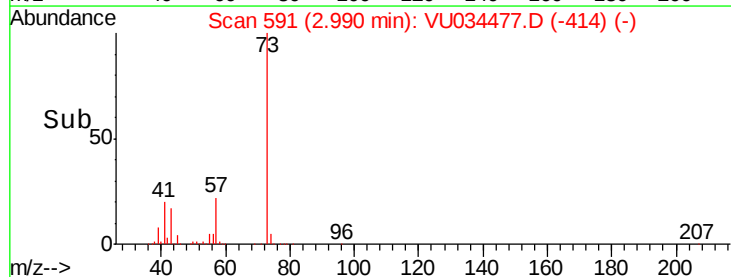
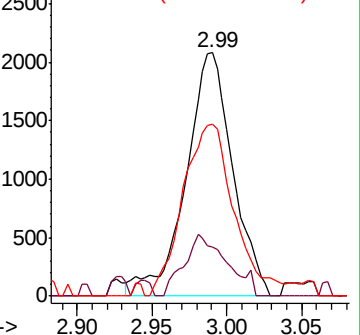
51 79.2 28.4 42.6#

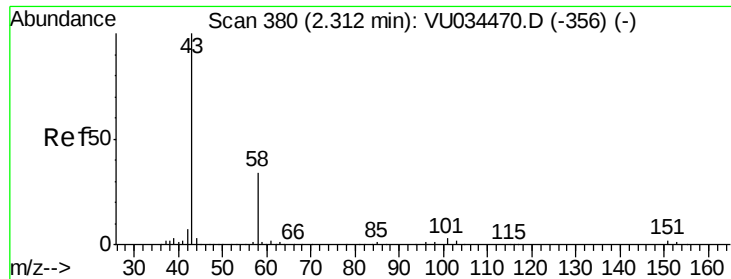


Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0





#13

Acetone

Concen: 0.265 ug/l

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU034477.D

Acq: 11 Sep 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

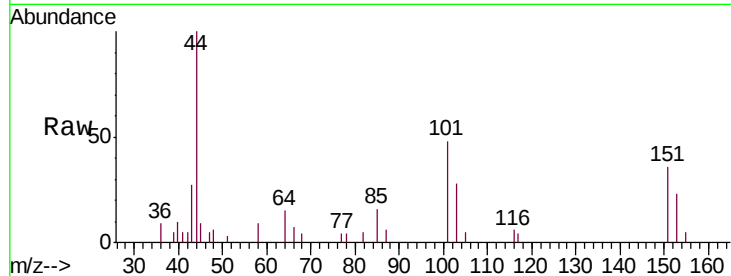
38150-122118DL

Tgt Ion: 43 Resp: 797

Ion Ratio Lower Upper

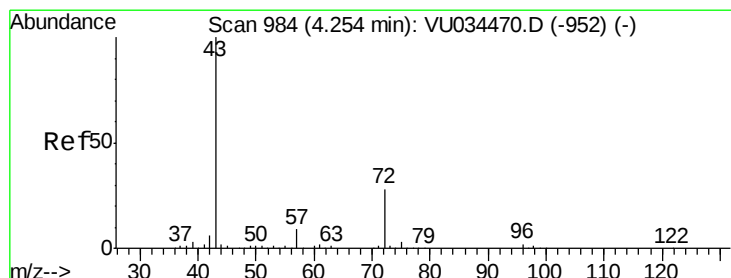
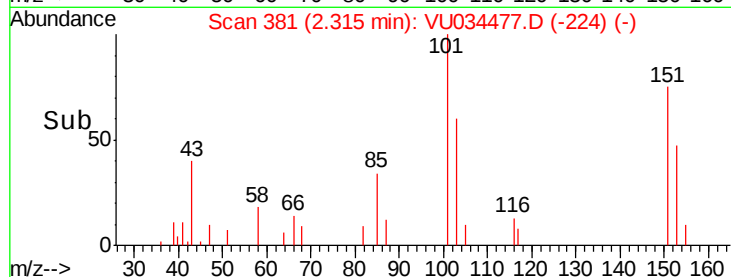
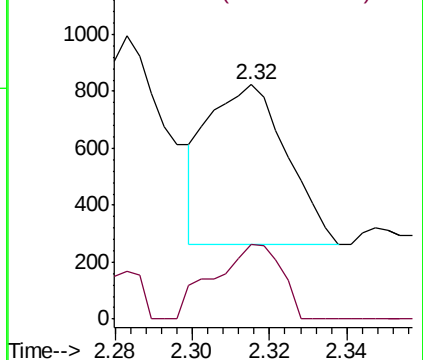
43 100

58 46.6 26.9 40.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

2-Butanone

Concen: 2.567 ug/l

RT: 4.05 min Scan# 920

Delta R.T. -0.21 min

Lab File: VU034477.D

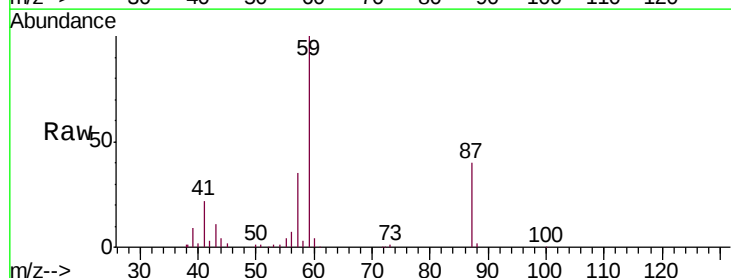
Acq: 11 Sep 2019 15:17

Tgt Ion: 43 Resp: 11134

Ion Ratio Lower Upper

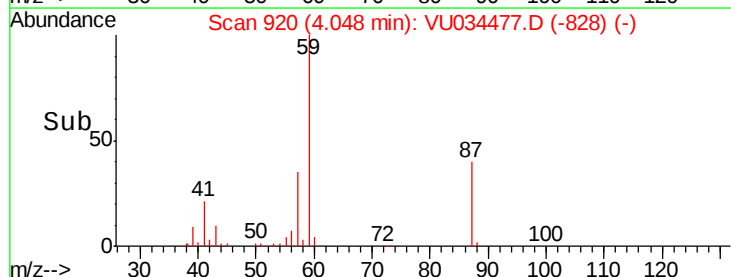
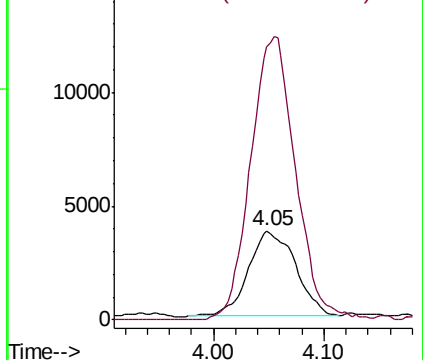
43 100

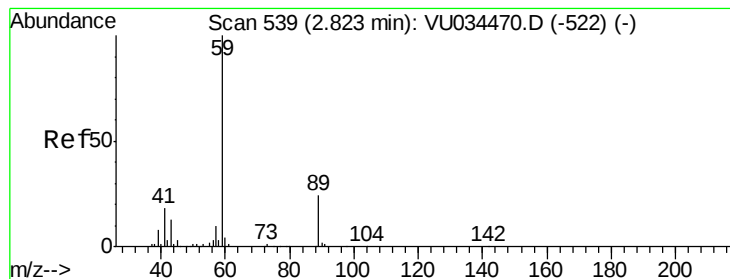
57 320.4 0.0 17.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#24

tert-Butyl Alcohol

Concen: Below Cal

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034477.D

Acq: 11 Sep 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

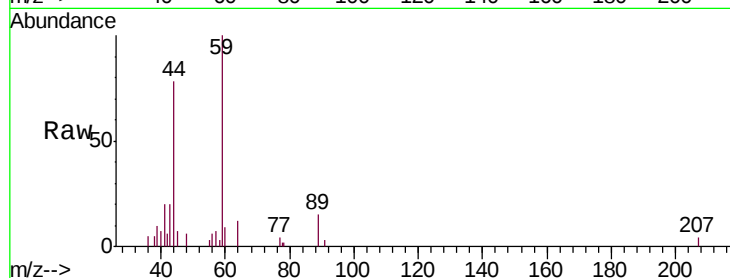
38150-122118DL

Tgt Ion: 59 Resp: 8442

Ion Ratio Lower Upper

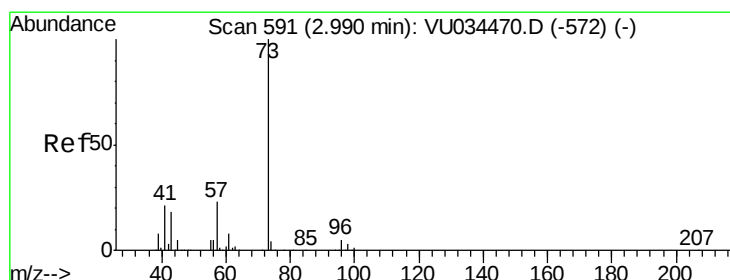
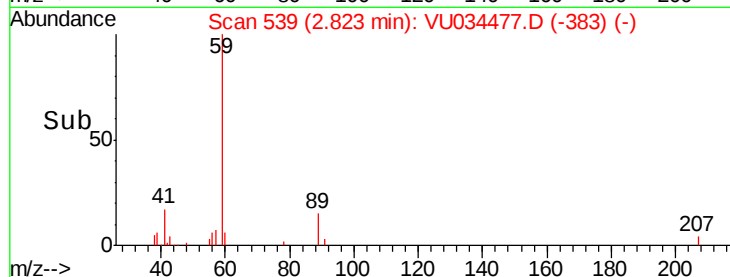
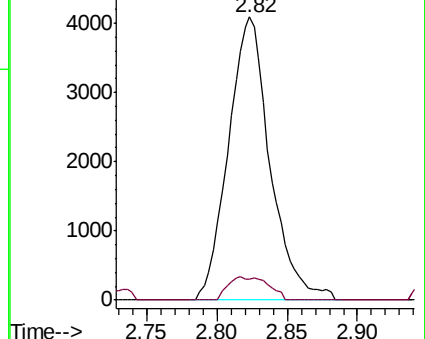
59 100

57 0.0 7.3 10.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034477.D (-522) (-)

Ion 57.00 (56.70 to 57.70): VU034477.D (-522) (-)



#25

Methyl tert-Butyl Ether

Concen: 10.663 ug/l

RT: 2.99 min Scan# 590

Delta R.T. -0.00 min

Lab File: VU034477.D

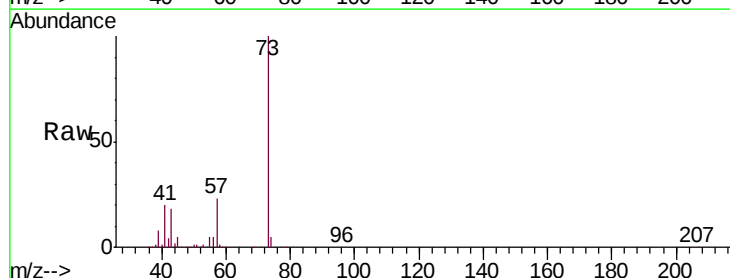
Acq: 11 Sep 2019 15:17

Tgt Ion: 73 Resp: 442285

Ion Ratio Lower Upper

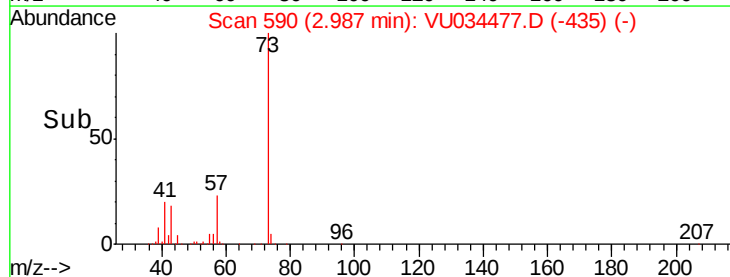
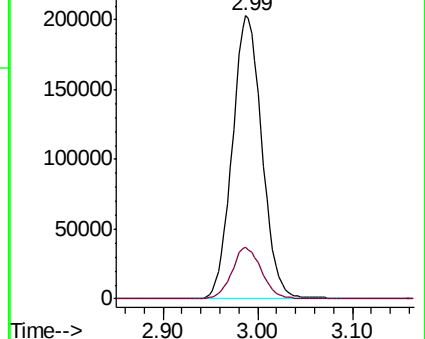
73 100

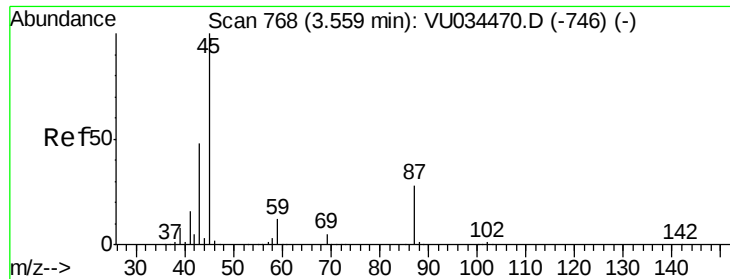
43 18.0 14.4 21.6



Abundance Ion 73.00 (72.70 to 73.70): VU034477.D (-572) (-)

Ion 43.00 (42.70 to 43.70): VU034477.D (-572) (-)





#31

Isopropyl Ether

Concen: 10.036 ug/l

RT: 3.56 min Scan# 768

Delta R.T. 0.00 min

Lab File: VU034477.D

Acq: 11 Sep 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

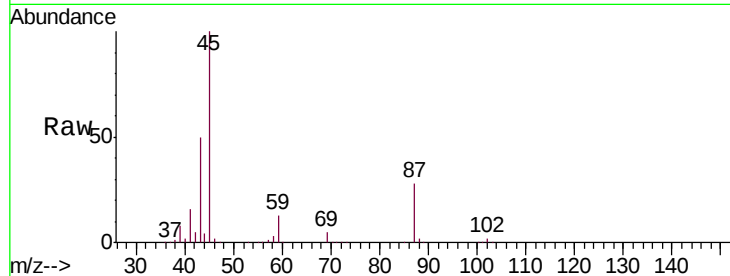
38150-122118DL

Tgt Ion: 45 Resp: 533527

Ion Ratio Lower Upper

45 100

43 50.2 24.8 74.3



Abundance Ion 45.00 (44.70 to 45.70): VU034477.D (-746) (-)

Ion 43.00 (42.70 to 43.70): VU034477.D (-746) (-)

250000

200000

150000

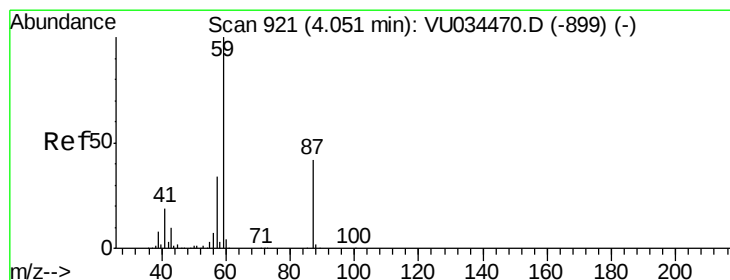
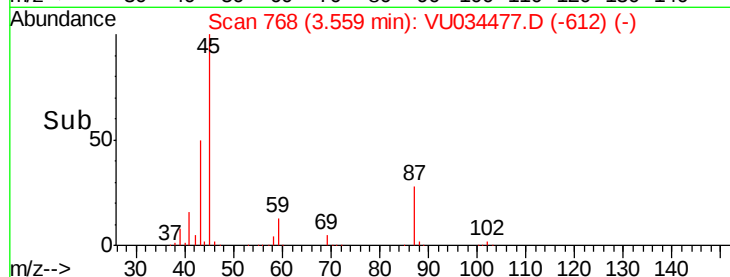
100000

50000

0

3.40 3.50 3.60 3.70

Time-->



#32

Ethyl-t-butyl ether

Concen: 2.161 ug/l

RT: 4.05 min Scan# 921

Delta R.T. 0.00 min

Lab File: VU034477.D

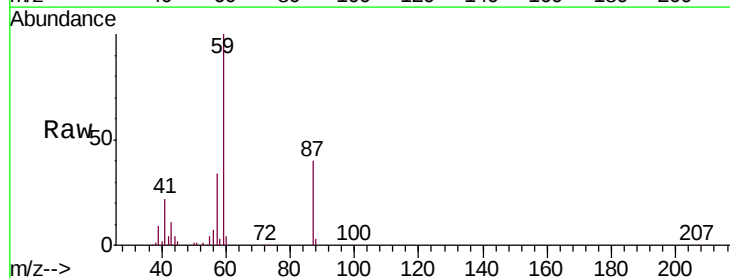
Acq: 11 Sep 2019 15:17

Tgt Ion: 59 Resp: 98284

Ion Ratio Lower Upper

59 100

87 41.8 33.6 50.4



Abundance Ion 59.00 (58.70 to 59.70): VU034477.D (-899) (-)

Ion 87.00 (86.70 to 87.70): VU034477.D (-899) (-)

40000

30000

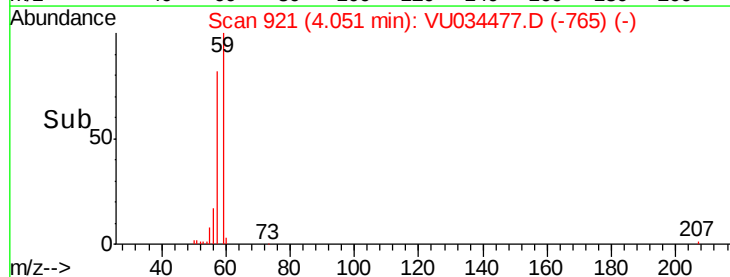
20000

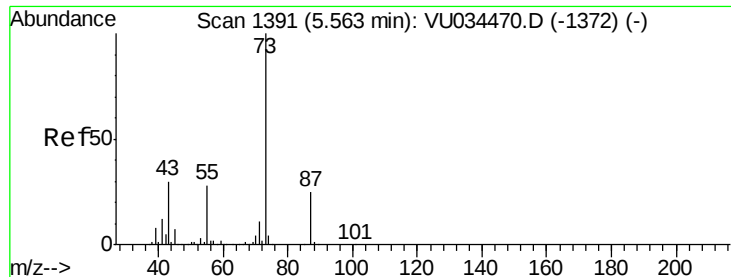
10000

0

4.00 4.10

Time-->



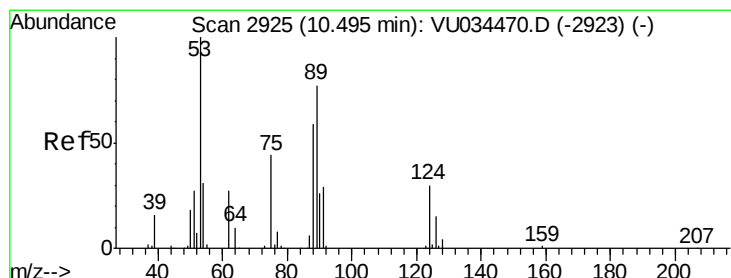
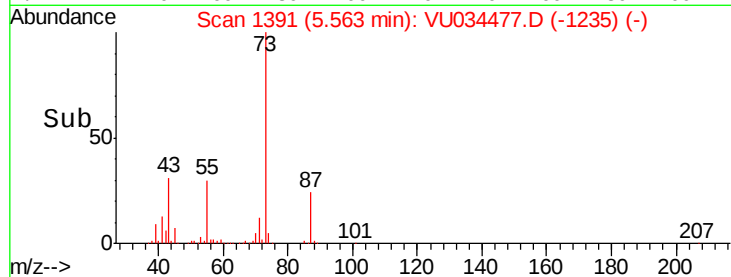
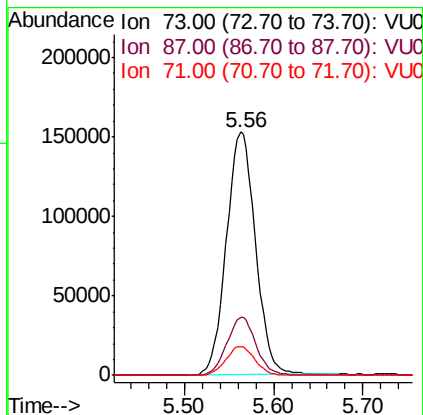
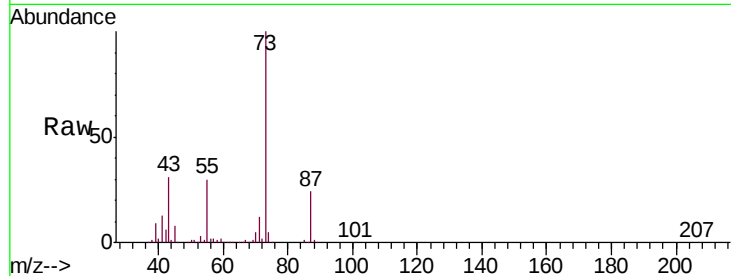


#33

Tert-Amyl methyl ether  
 Concen: 9.079 ug/l  
 RT: 5.56 min Scan# 1391  
 Delta R.T. 0.00 min  
 Lab File: VU034477.D  
 Acq: 11 Sep 2019 15:17

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 38150-122118DL

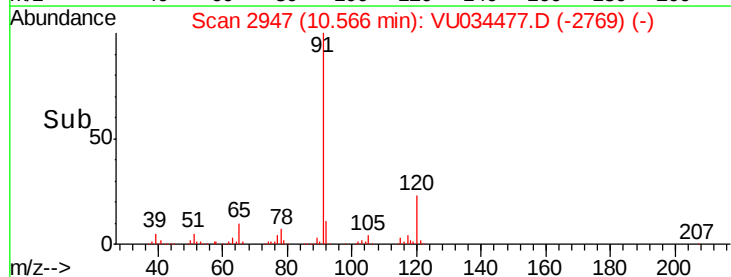
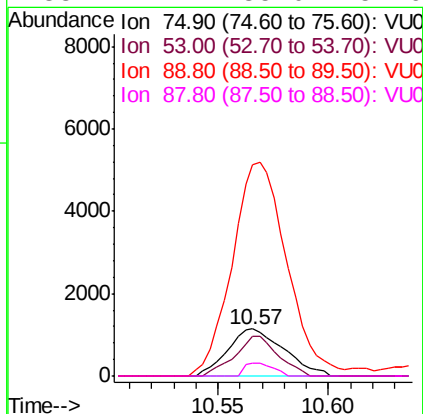
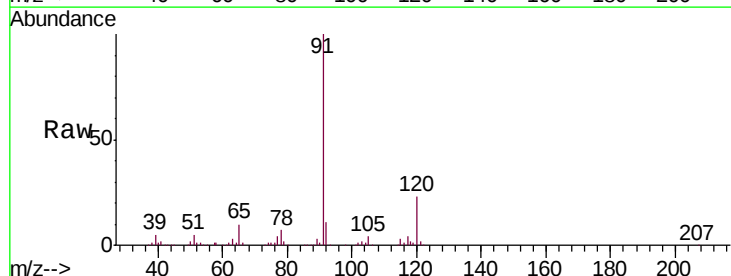
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 87      | 23.6  | 19.4  | 29.0  |
| 71      | 12.0  | 9.3   | 13.9  |

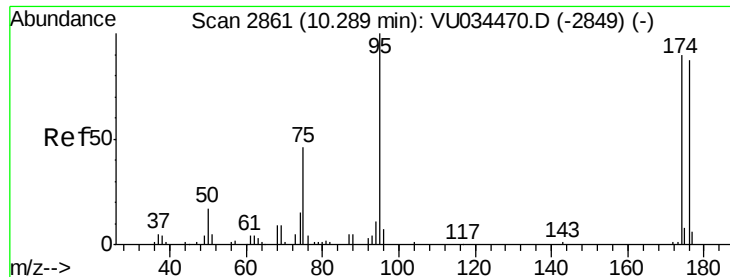


#46

t-1,4-Dichloro-2-butene  
 Concen: 0.512 ug/l  
 RT: 10.57 min Scan# 2947  
 Delta R.T. 0.07 min  
 Lab File: VU034477.D  
 Acq: 11 Sep 2019 15:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 65.6  | 63.3  | 94.9  |
| 89      | 441.9 | 46.2  | 69.2# |
| 88      | 14.2  | 35.0  | 52.6# |

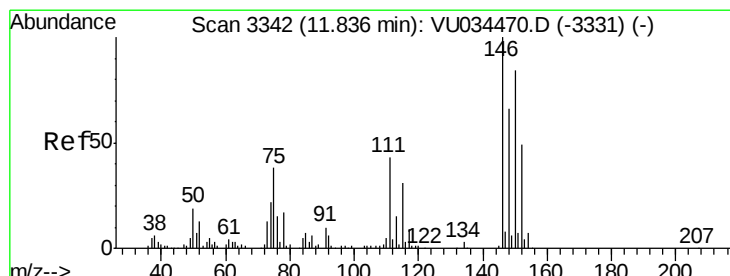
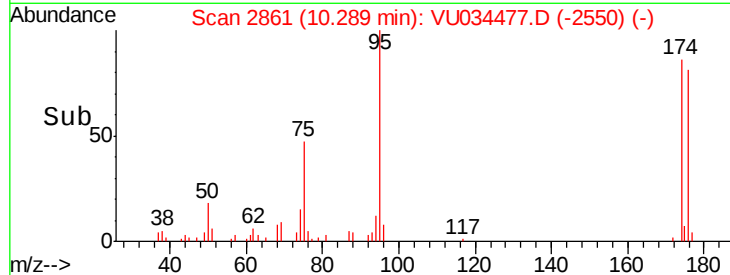
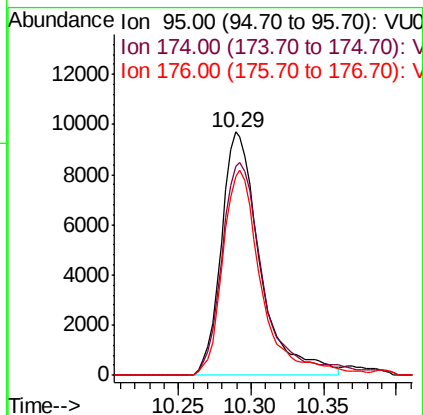
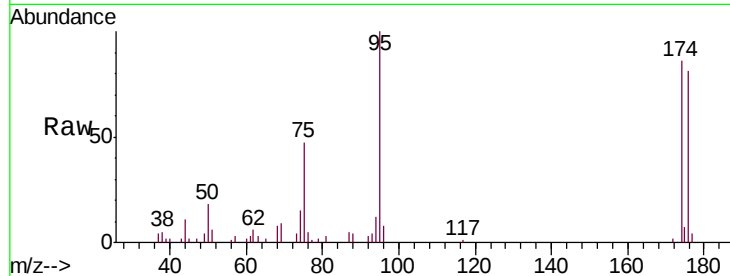




#57  
 4-Bromofluorobenzene  
 Concen: 0.717 ug/l  
 RT: 10.29 min Scan# 2861  
 Delta R.T. 0.00 min  
 Lab File: VU034477.D  
 Acq: 11 Sep 2019 15:17

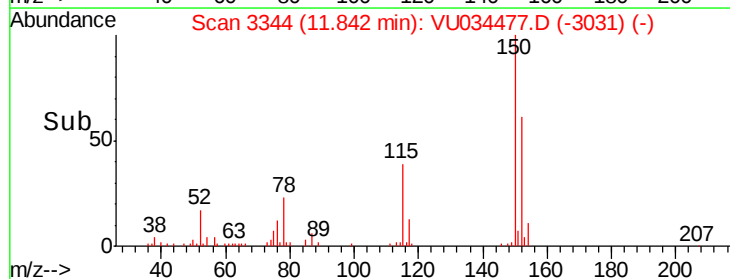
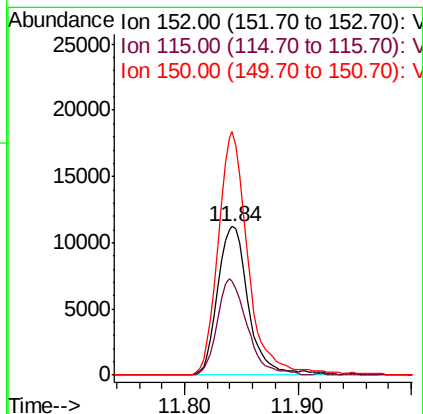
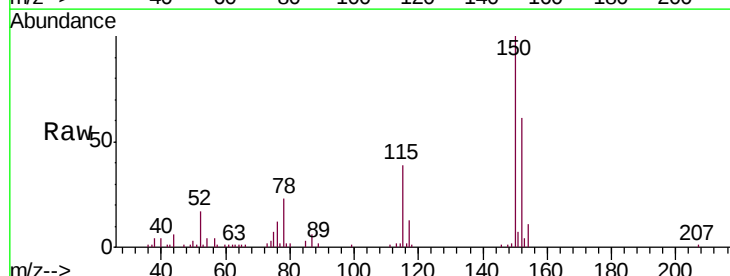
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 38150-122118DL

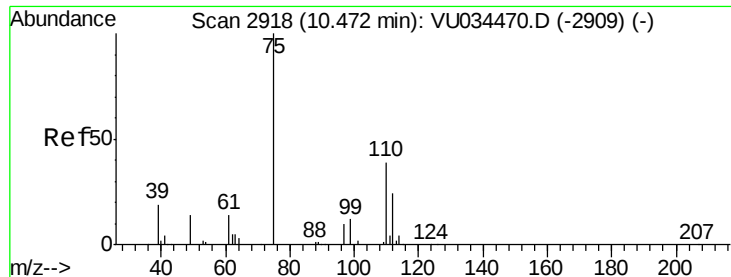
Tgt Ion: 95 Resp: 18056  
 Ion Ratio Lower Upper  
 95 100  
 174 93.4 70.1 105.1  
 176 84.3 67.7 101.5



#68  
 1,2-Dichlorobenzene-d4  
 Concen: 0.784 ug/l  
 RT: 11.84 min Scan# 3344  
 Delta R.T. 0.01 min  
 Lab File: VU034477.D  
 Acq: 11 Sep 2019 15:17

Tgt Ion: 152 Resp: 21275  
 Ion Ratio Lower Upper  
 152 100  
 115 62.7 0.0 126.6  
 150 154.9 0.0 633.6

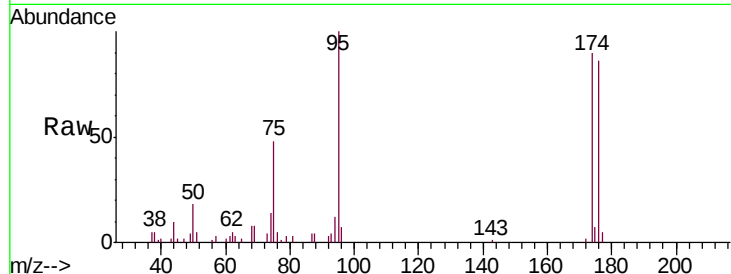




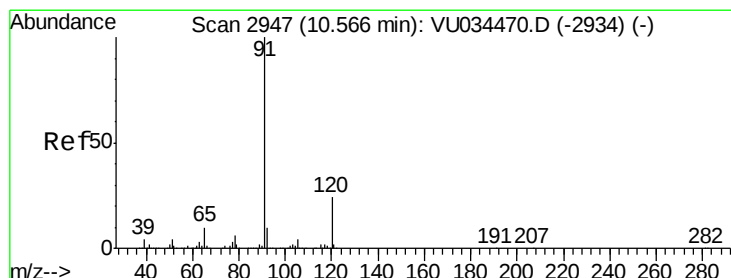
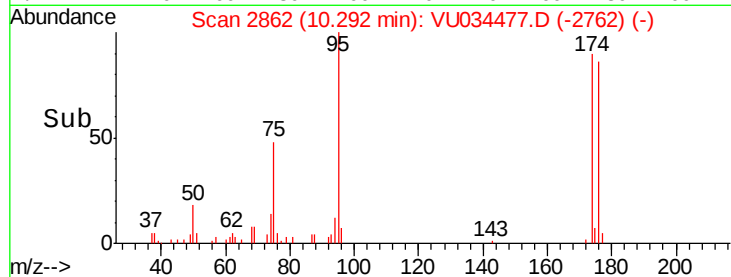
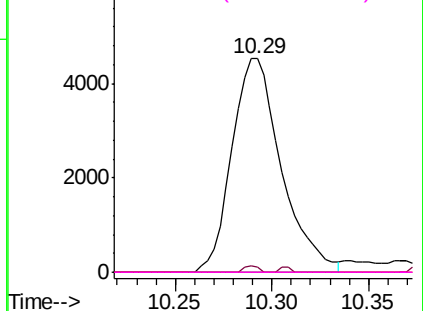
#71  
 1,2,3-Trichloropropane  
 Concen: 0.652 ug/l  
 RT: 10.29 min Scan# 2862  
 Delta R.T. -0.18 min  
 Lab File: VU034477.D  
 Acq: 11 Sep 2019 15:17

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 38150-122118DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 8052  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 5.5   | 0.0   | 0.0#  |
| 110      | 0.5   | 0.0   | 66.8  |
| 97       | 0.0   | 0.0   | 35.6  |

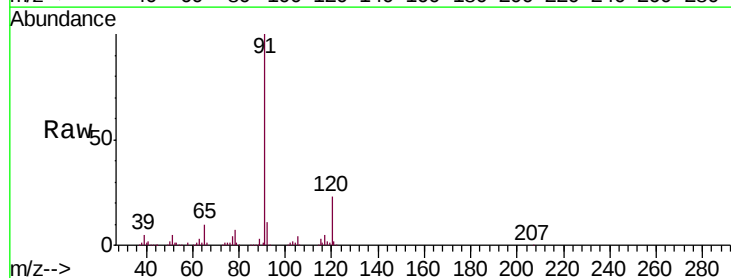


Abundance Ion 75.00 (74.70 to 75.70): VU0  
 Ion 77.00 (76.70 to 77.70): VU0  
 Ion 110.00 (109.70 to 110.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0

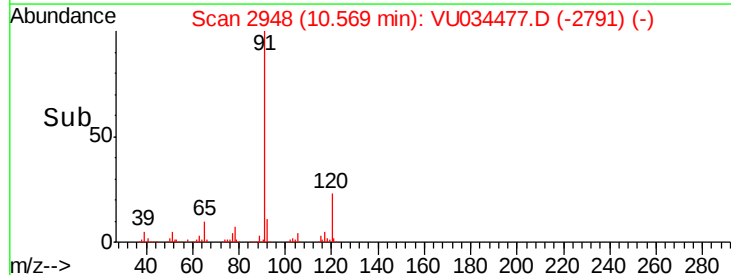
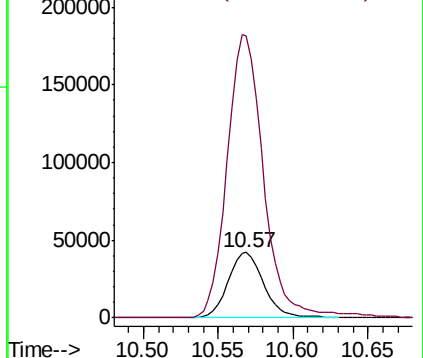


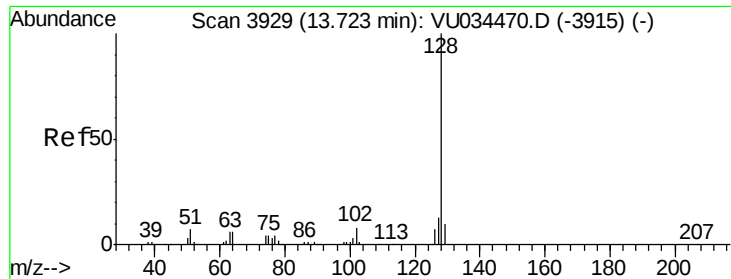
#73  
 n-propylbenzene  
 Concen: 2.968 ug/l  
 RT: 10.57 min Scan# 2948  
 Delta R.T. 0.00 min  
 Lab File: VU034477.D  
 Acq: 11 Sep 2019 15:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 120   | Resp: | 70337 |
| Ion      | Ratio | Lower | Upper |
| 120      | 100   |       |       |
| 91       | 444.7 | 339.1 | 508.7 |



Abundance Ion 120.00 (119.70 to 120.70): VU0  
 Ion 91.00 (90.70 to 91.70): VU0





#89

Naphthalene

Concen: 0.786 ug/l

RT: 13.74 min Scan# 3935

Delta R.T. 0.02 min

Lab File: VU034477.D

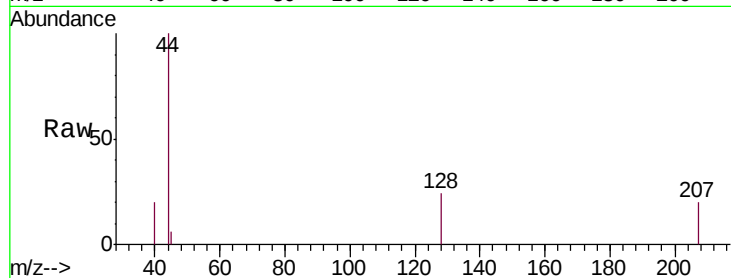
Acq: 11 Sep 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

38150-122118DL



Tgt Ion:128 Resp: 497

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.0 12.0#

