

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082018\  
 Data File : VU026215.D  
 Acq On : 20 Aug 2018 17:58  
 Operator : MD/SY  
 Sample : J4045-10  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 21 07:42:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U082018DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Mon Aug 20 13:35:41 2018  
 Response via : Initial Calibration

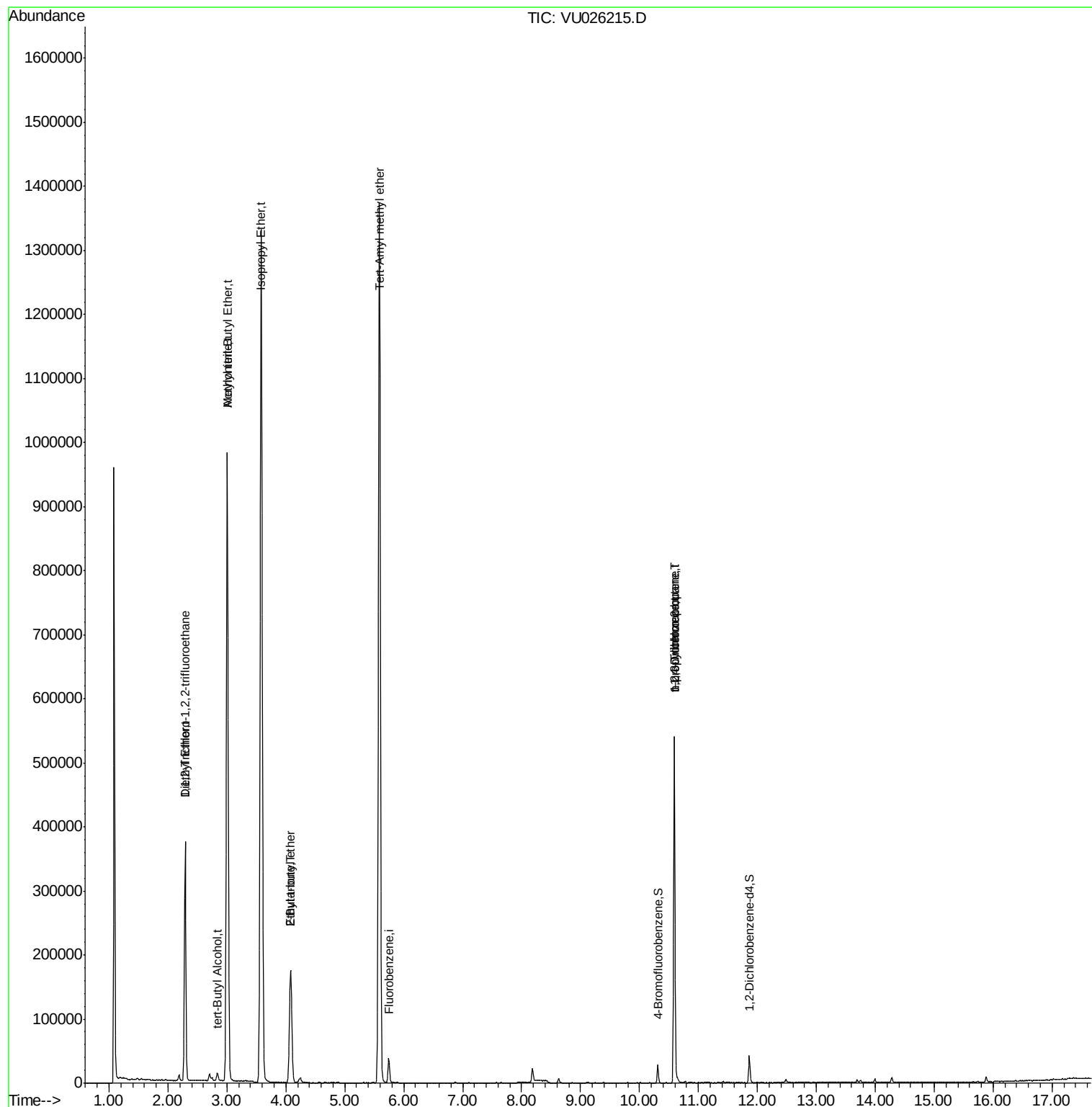
| Internal Standards            | R.T.  | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-------|-------|----------|-----------|--------|----------|
| -----                         | ----- | ----- | -----    | -----     | -----  | -----    |
| 1) Fluorobenzene              | 5.75  | 96    | 34973    | 1.00      | ug/l   | 0.00     |
| System Monitoring Compounds   |       |       |          |           |        |          |
| 57) 4-Bromofluorobenzene      | 10.31 | 95    | 9126     | 0.73      | ug/l   | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =         | 73.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.86 | 152   | 11749    | 0.80      | ug/l   | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =         | 80.00% |          |
| Target Compounds              |       |       |          |           |        | Ovalue   |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29  | 101   | 137800   | 14.486    | ug/l   | 99       |
| 12) Acrylonitrile             | 3.01  | 53    | 11192    | 6.078     | ug/l # | 30       |
| 13) Acetone                   | 2.29  | 43    | 1322     | Below Cal |        | 94       |
| 18) 2-Butanone                | 4.09  | 43    | 23719    | 8.999     | ug/l # | 1        |
| 23) Diethyl Ether             | 2.29  | 59    | 1409     | 0.227     | ug/l # | 19       |
| 24) tert-Butyl Alcohol        | 2.84  | 59    | 12599    | 19.794    | ug/l # | 87       |
| 25) Methyl tert-Butyl Ether   | 3.00  | 73    | 1012676  | 47.825    | ug/l   | 98       |
| 31) Isopropyl Ether           | 3.58  | 45    | 1335847  | 47.159    | ug/l   | 96       |
| 32) Ethyl-t-butyl ether       | 4.08  | 59    | 192197   | 7.746     | ug/l   | 93       |
| 33) Tert-Amyl methyl ether    | 5.59  | 73    | 1156044  | 54.544    | ug/l   | 98       |
| 46) t-1,4-Dichloro-2-butene   | 10.59 | 75    | 2867     | 1.477     | ug/l # | 1        |
| 71) 1,2,3-Trichloropropane    | 10.59 | 75    | 2867     | 0.424     | ug/l # | 47       |
| 73) n-propylbenzene           | 10.59 | 120   | 87255    | 7.012     | ug/l   | 98       |
| -----                         | ----- | ----- | -----    | -----     | -----  | -----    |

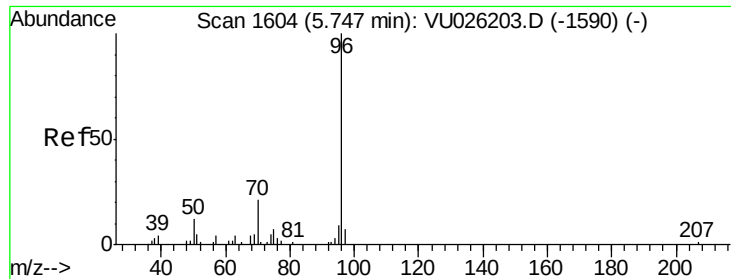
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 20 13:35:41 2018  
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VU026215.D

Acq: 20 Aug 2018 17:58

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 96 Resp: 34973

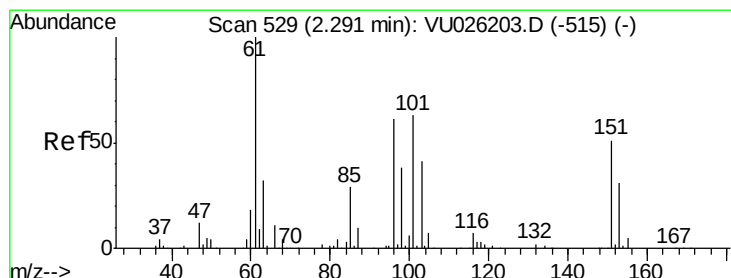
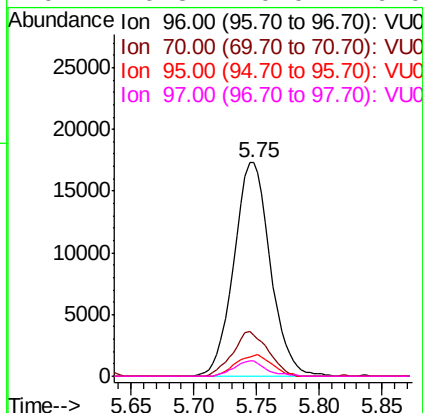
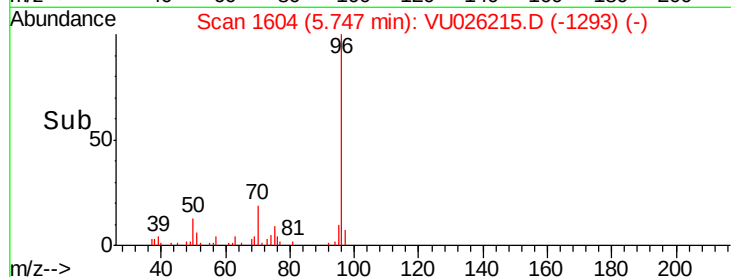
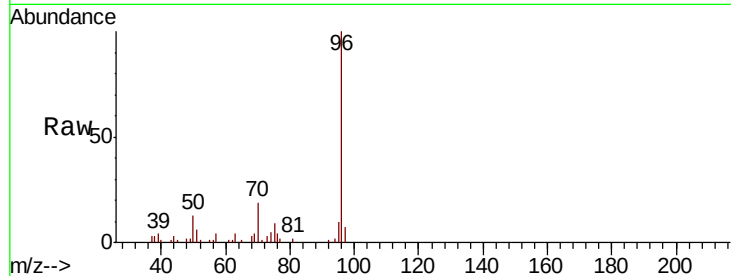
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 70  | 20.1  | 16.2  | 24.4  |
| 95  | 9.9   | 6.9   | 10.3  |
| 97  | 6.3   | 0.0   | 0.0#  |

96 100

70 20.1 16.2 24.4

95 9.9 6.9 10.3

97 6.3 0.0 0.0#



#8

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

Concen: 14.486 ug/l

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU026215.D

Acq: 20 Aug 2018 17:58

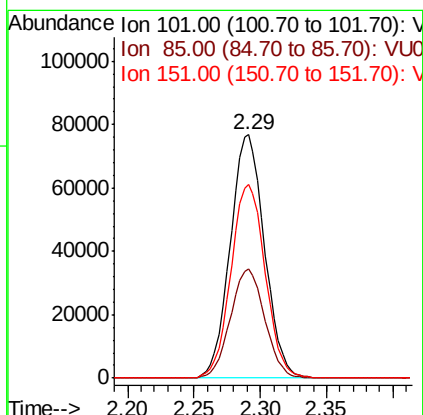
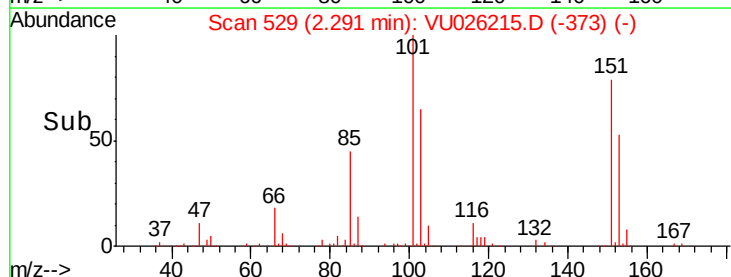
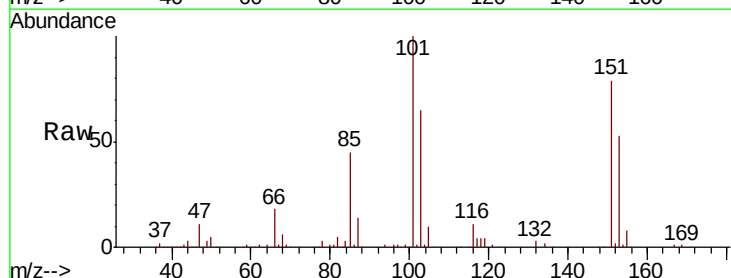
Tgt Ion: 101 Resp: 137800

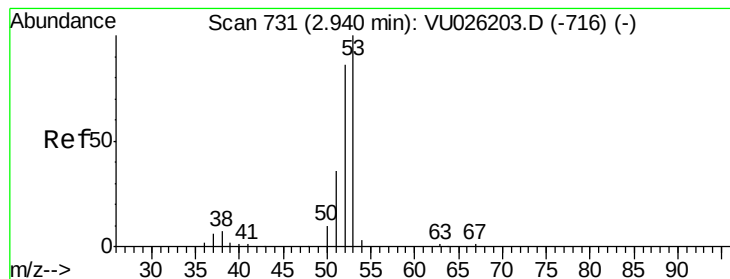
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 101 | 100   |       |       |
| 85  | 44.9  | 35.2  | 52.8  |
| 151 | 79.7  | 63.5  | 95.3  |

101 100

85 44.9 35.2 52.8

151 79.7 63.5 95.3





#12

Acrylonitrile

Concen: 6.078 ug/l

RT: 3.01 min Scan# 752

Delta R.T. 0.07 min

Lab File: VU026215.D

Acq: 20 Aug 2018 17:58

Instrument :

MSVOA\_U

ClientSampleId :

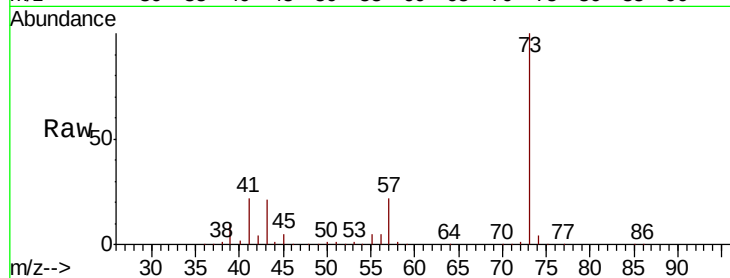
Tot Ion: 53 Resp: 11192

Ion Ratio Lower Upper

53 100

52 21.1 65.1 97.7#

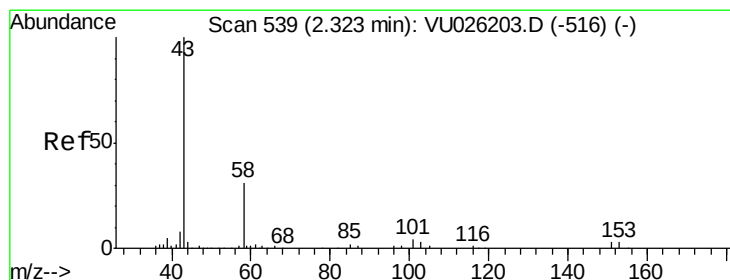
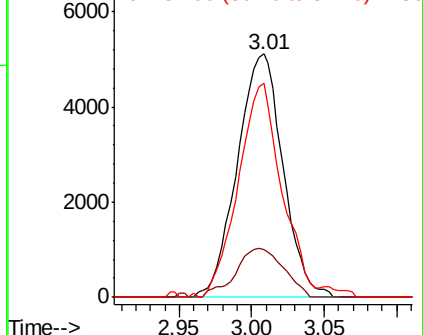
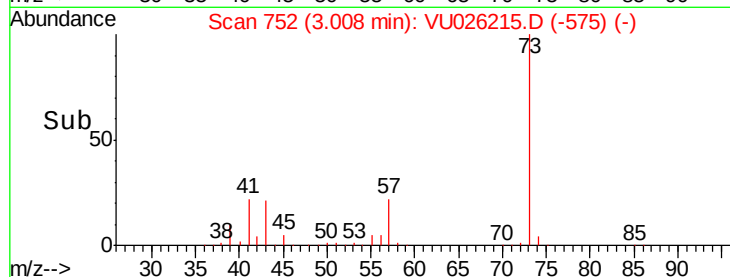
51 83.8 30.2 45.4#



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: Below Cal

RT: 2.29 min Scan# 528

Delta R.T. -0.04 min

Lab File: VU026215.D

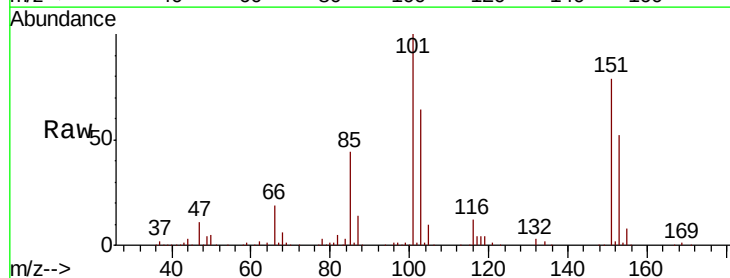
Acq: 20 Aug 2018 17:58

Tgt Ion: 43 Resp: 1322

Ion Ratio Lower Upper

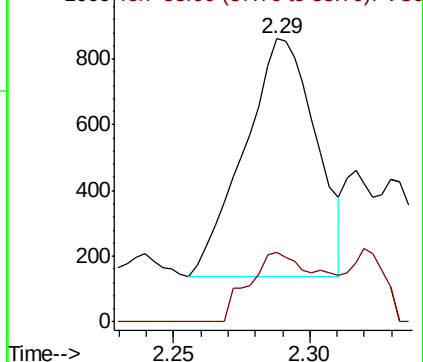
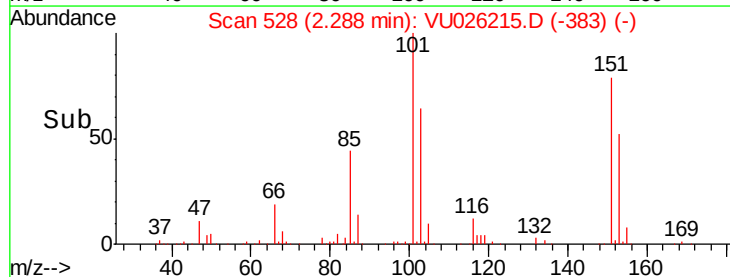
43 100

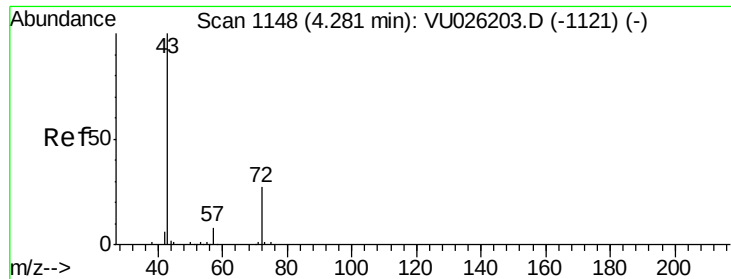
58 29.1 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

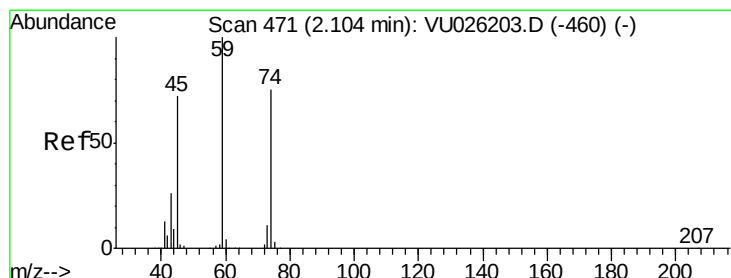
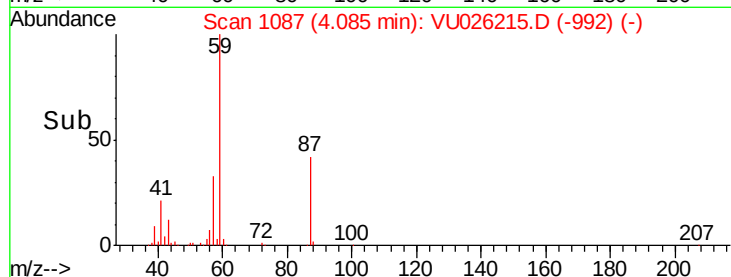
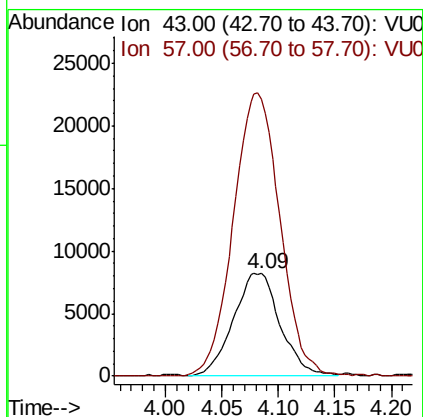
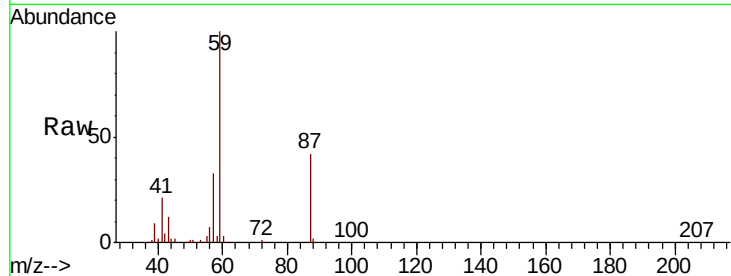




#18  
2-Butanone  
Concen: 8.999 ug/l  
RT: 4.09 min Scan# 1087  
Delta R.T. -0.20 min  
Lab File: VU026215.D  
Acq: 20 Aug 2018 17:58

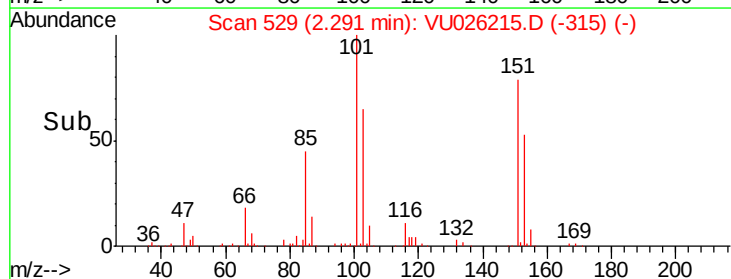
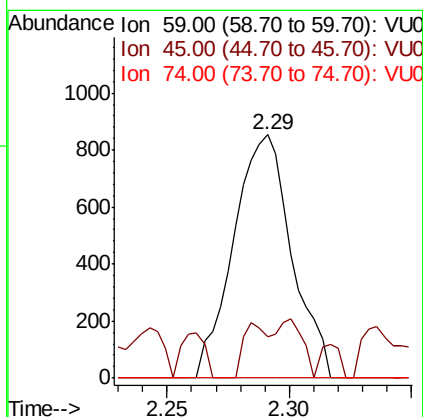
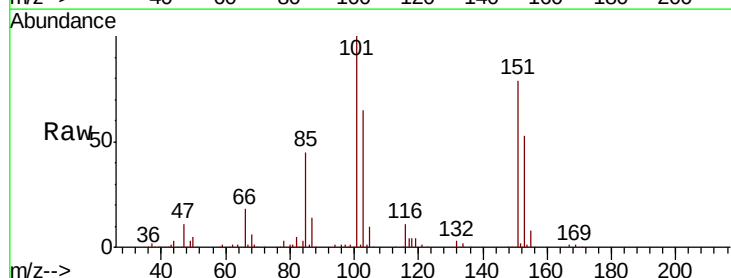
Instrument :  
MSVOA\_U  
ClientSampleId :

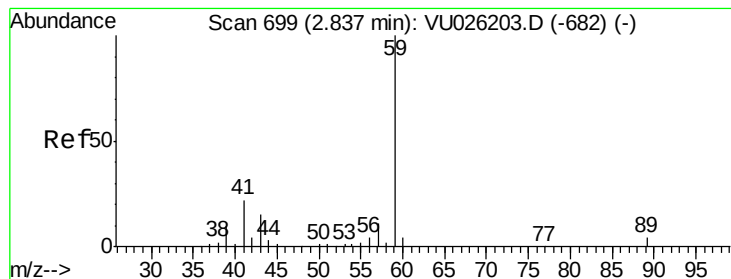
Tot Ion: 43 Resp: 23719  
Ion Ratio Lower Upper  
43 100  
57 269.0 0.0 15.8#



#23  
Diethyl Ether  
Concen: 0.227 ug/l  
RT: 2.29 min Scan# 529  
Delta R.T. 0.19 min  
Lab File: VU026215.D  
Acq: 20 Aug 2018 17:58

Tgt Ion: 59 Resp: 1409  
Ion Ratio Lower Upper  
59 100  
45 9.0 60.0 90.0#  
74 0.0 56.5 84.7#





#24

tert-Butyl Alcohol

Concen: 19.794 ug/l

RT: 2.84 min Scan# 699

Delta R.T. 0.00 min

Lab File: VU026215.D

Acq: 20 Aug 2018 17:58

Instrument :

MSVOA\_U

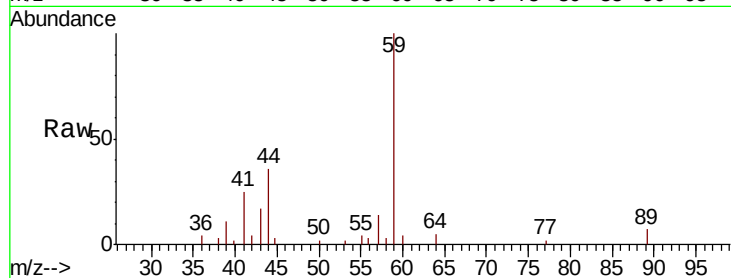
ClientSampleId :

Tot Ion: 59 Resp: 12599

Ion Ratio Lower Upper

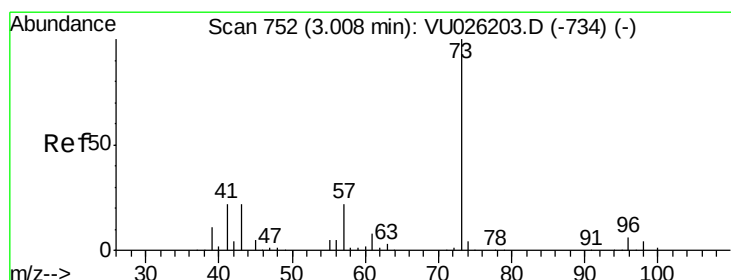
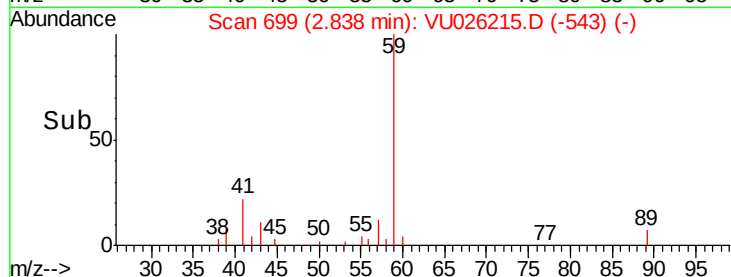
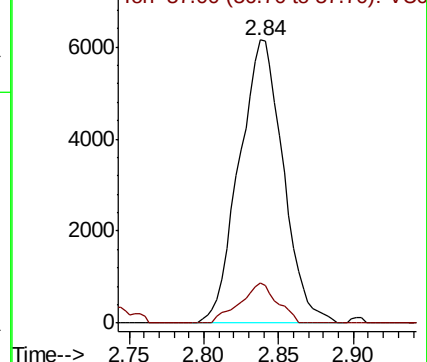
59 100

57 0.0 3.4 5.2#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



#25

Methyl tert-Butyl Ether

Concen: 47.825 ug/l

RT: 3.00 min Scan# 751

Delta R.T. -0.00 min

Lab File: VU026215.D

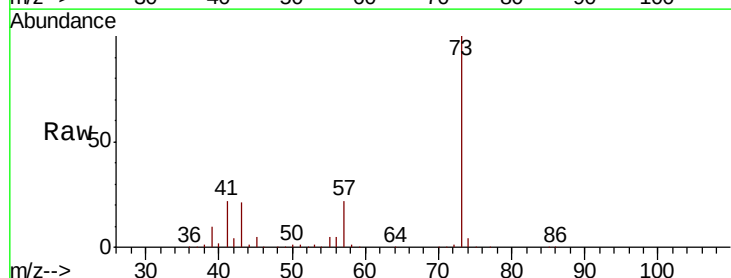
Acq: 20 Aug 2018 17:58

Tgt Ion: 73 Resp: 1012676

Ion Ratio Lower Upper

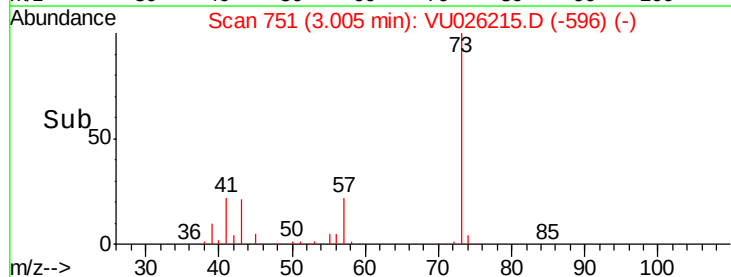
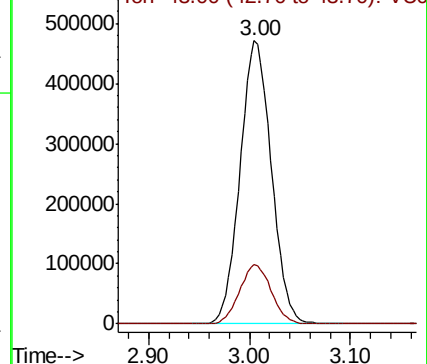
73 100

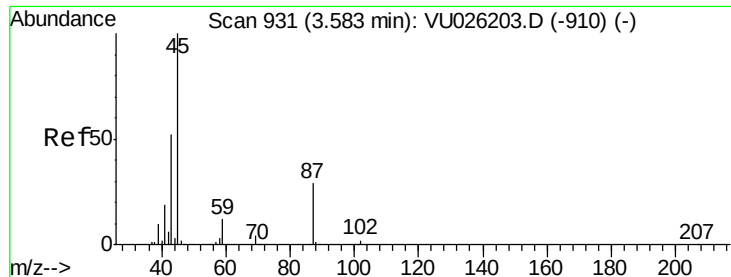
43 21.2 16.2 24.2



Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0





#31

Isopropyl Ether

Concen: 47.159 ug/l

RT: 3.58 min Scan# 930

Delta R.T. -0.00 min

Lab File: VU026215.D

Acq: 20 Aug 2018 17:58

Instrument :

MSVOA\_U

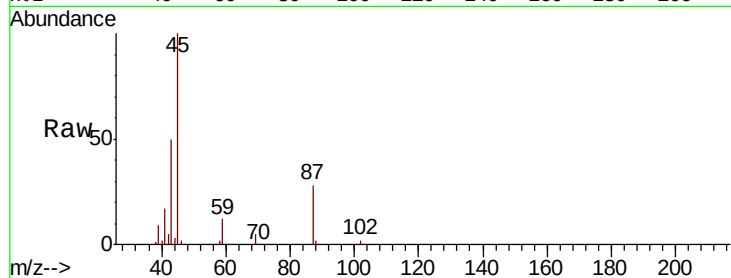
ClientSampleId :

Tot Ion: 45 Resp: 1335847

Ion Ratio Lower Upper

45 100

43 50.5 24.0 72.0



Abundance Ion 45.00 (44.70 to 45.70): VU026215.D (-930) (-)

Ion 43.00 (42.70 to 43.70): VU026215.D (-930) (-)

3.58

600000

500000

400000

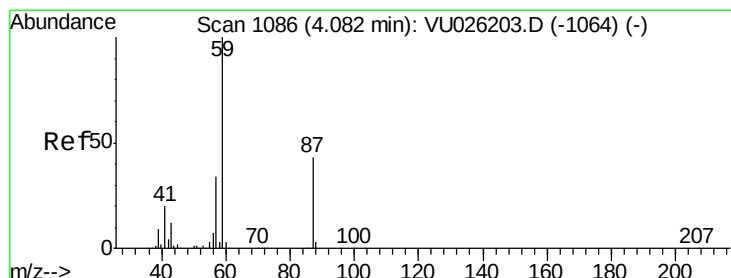
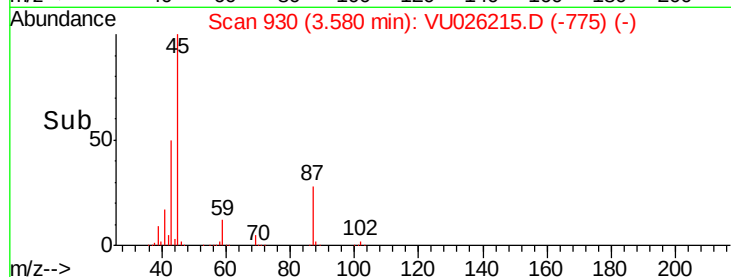
300000

200000

100000

0

Time-->



#32

Ethyl-t-butyl ether

Concen: 7.746 ug/l

RT: 4.08 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VU026215.D

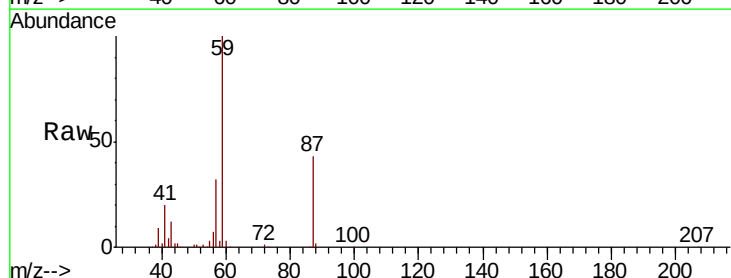
Acq: 20 Aug 2018 17:58

Tgt Ion: 59 Resp: 192197

Ion Ratio Lower Upper

59 100

87 43.2 31.0 46.6



Abundance Ion 59.00 (58.70 to 59.70): VU026215.D (-1085) (-)

Ion 87.00 (86.70 to 87.70): VU026215.D (-1085) (-)

4.08

80000

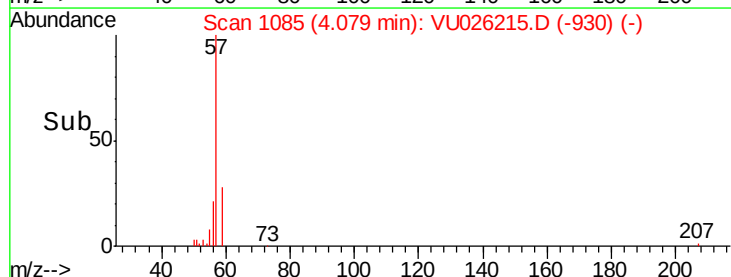
60000

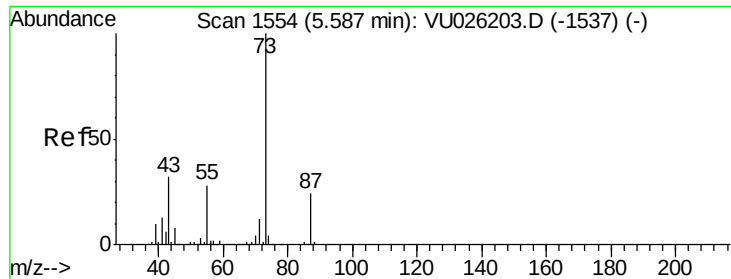
40000

20000

0

Time-->

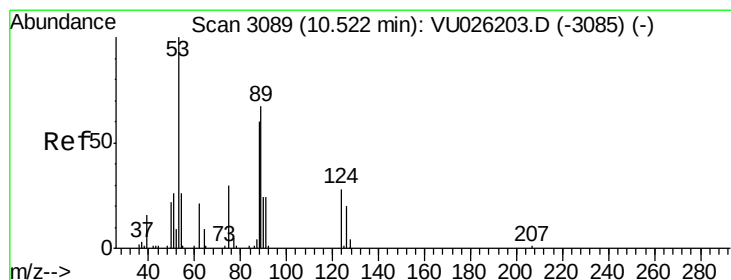
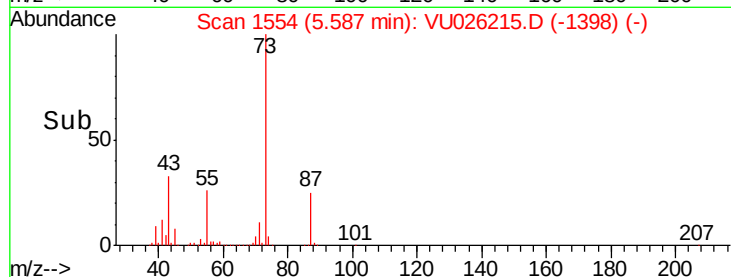
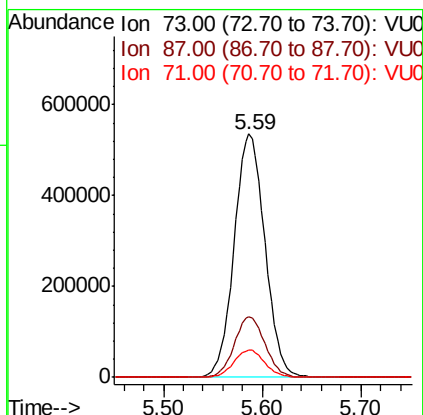
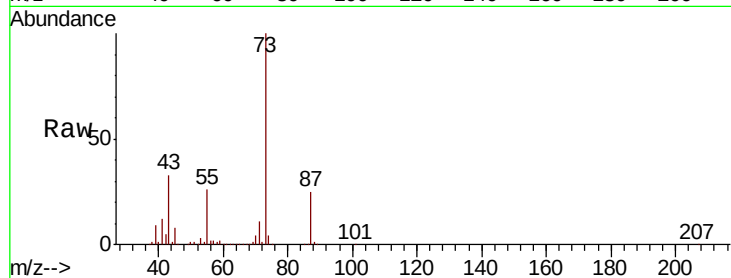




#33  
Tert-Butyl methyl ether  
Concen: 54.544 ug/l  
RT: 5.59 min Scan# 1554  
Delta R.T. 0.00 min  
Lab File: VU026215.D  
Acq: 20 Aug 2018 17:58

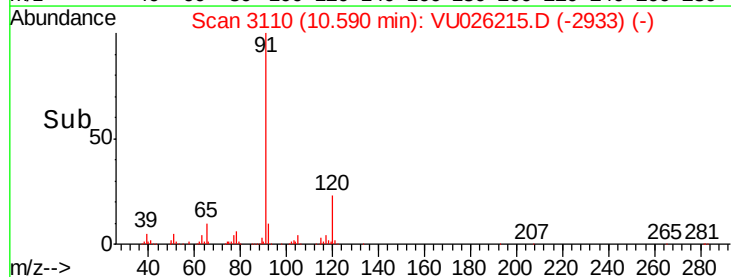
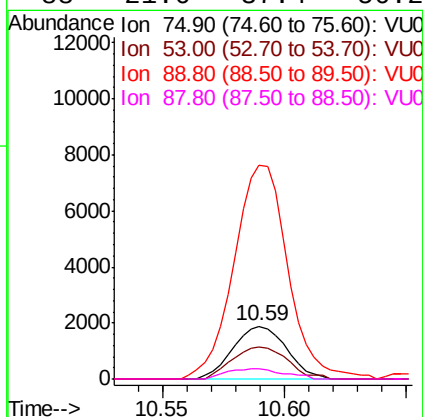
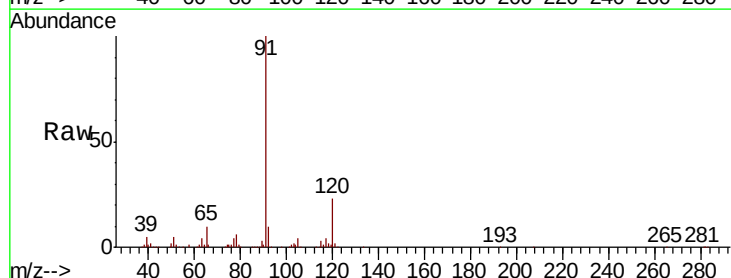
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 73 Resp: 1156044  
Ion Ratio Lower Upper  
73 100  
87 24.9 18.6 28.0  
71 11.3 9.3 13.9

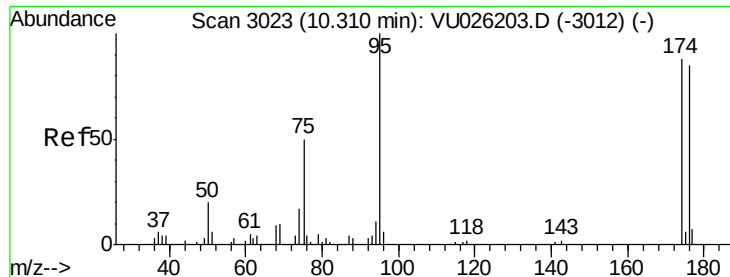


#46  
t-1,4-Dichloro-2-butene  
Concen: 1.477 ug/l  
RT: 10.59 min Scan# 3110  
Delta R.T. 0.07 min  
Lab File: VU026215.D  
Acq: 20 Aug 2018 17:58

Tgt Ion: 75 Resp: 2867  
Ion Ratio Lower Upper  
75 100  
53 62.1 82.2 123.4#  
89 409.3 51.3 76.9#  
88 21.6 37.4 56.2#







#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU026215.D

Acq: 20 Aug 2018 17:58

Instrument :

MSVOA\_U

ClientSampleId :

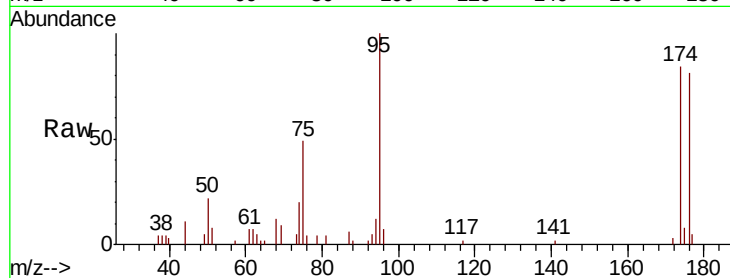
Tot Ion: 95 Resp: 9126

Ion Ratio Lower Upper

95 100

174 87.5 65.6 98.4

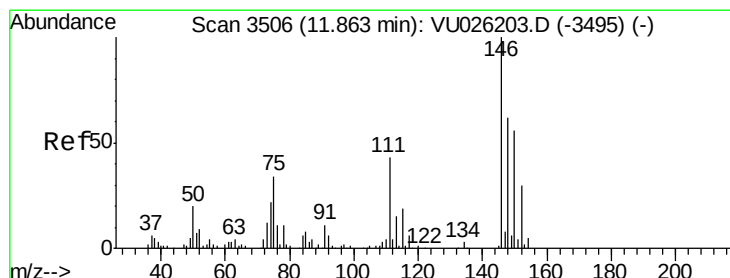
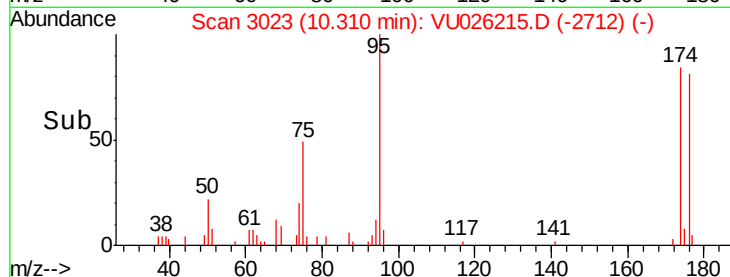
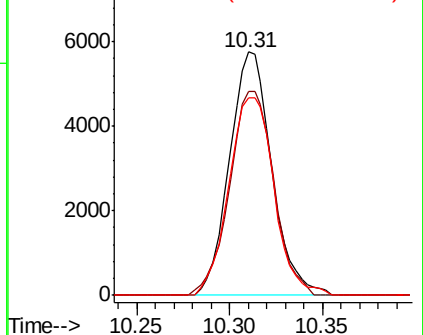
176 86.7 62.0 93.0



Abundance Ion 95.00 (94.70 to 95.70): VU026215.D (-2712) (-)

Ion 174.00 (173.70 to 174.70): VU026215.D (-2712) (-)

Ion 176.00 (175.70 to 176.70): VU026215.D (-2712) (-)



#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.86 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VU026215.D

Acq: 20 Aug 2018 17:58

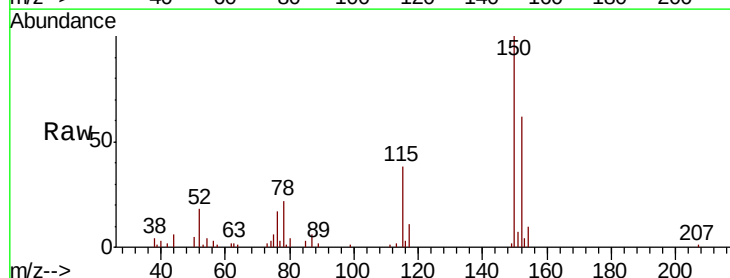
Tgt Ion: 152 Resp: 11749

Ion Ratio Lower Upper

152 100

115 62.6 0.0 118.8

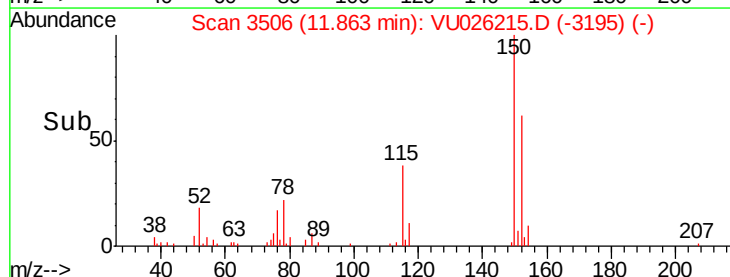
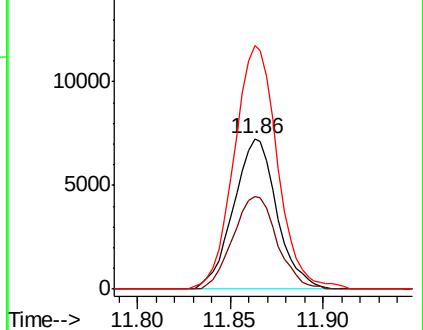
150 162.2 0.0 0.0#

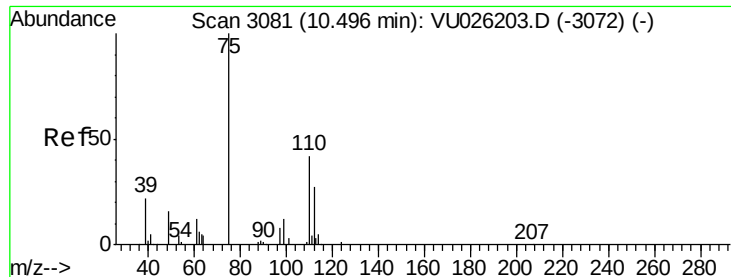


Abundance Ion 152.00 (151.70 to 152.70): VU026215.D (-3195) (-)

Ion 115.00 (114.70 to 115.70): VU026215.D (-3195) (-)

Ion 150.00 (149.70 to 150.70): VU026215.D (-3195) (-)





#71

1,2,3-Trichloropropane

Concen: 0.424 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.09 min

Lab File: VU026215.D

Acq: 20 Aug 2018 17:58

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 75 Resp: 2867

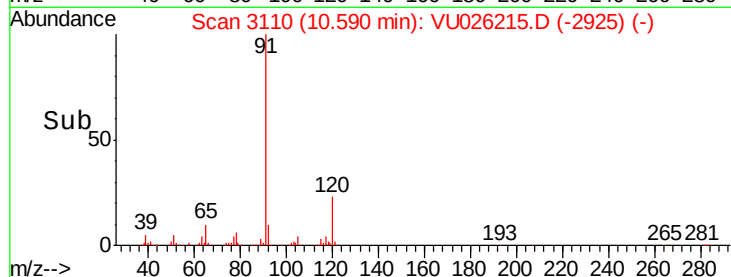
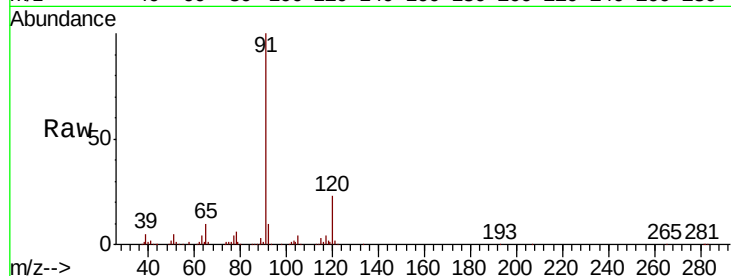
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 592.6 | 0.0   | 0.0#  |
| 110 | 2.3   | 0.0   | 74.0  |
| 97  | 0.0   | 0.0   | 39.6  |

75 100

77 592.6 0.0 0.0#

110 2.3 0.0 74.0

97 0.0 0.0 39.6

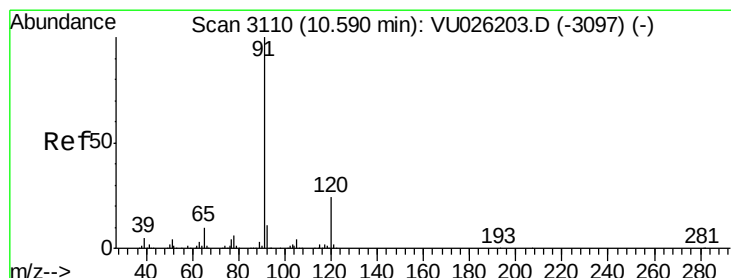
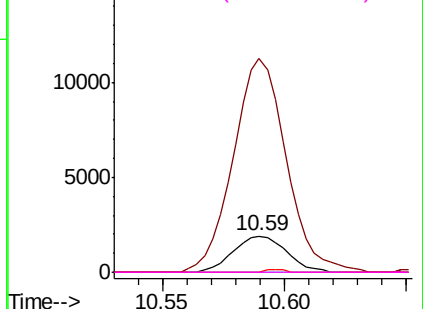


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

Ion 110.00 (109.70 to 110.70): V

Ion 97.00 (96.70 to 97.70): VU0



#73

n-propylbenzene

Concen: 7.012 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU026215.D

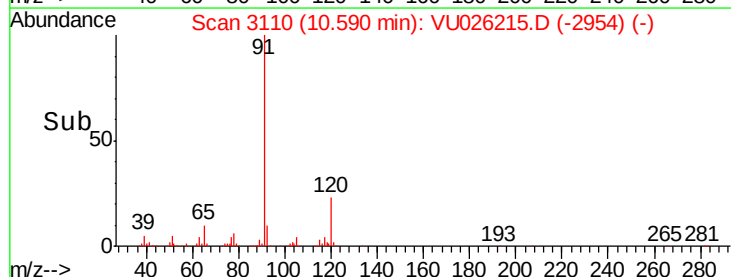
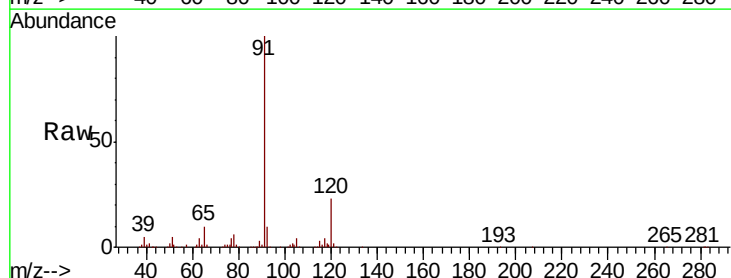
Acq: 20 Aug 2018 17:58

Tgt Ion:120 Resp: 87255

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 120 | 100   |       |       |
| 91  | 435.3 | 352.2 | 528.4 |

120 100

91 435.3 352.2 528.4



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0

