

Data File : VU029847.D  
Acq On : 07 Mar 2019 11:17  
Operator : JC/SP  
Sample : MDL04  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Quant Time: Mar 08 01:12:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U030719DW.M  
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Fri Mar 08 00:30:10 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
| 1) Fluorobenzene   | 5.74 | 96   | 60044    | 1.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                            |       |     |          |      |        |      |
|----------------------------|-------|-----|----------|------|--------|------|
| 57) 4-Bromofluorobenzene   | 10.31 | 95  | 19363    | 0.90 | ug/l   | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 90.00% |      |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 22438    | 0.90 | ug/l   | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 90.00% |      |

#### Target Compounds

|                               |      |     |       |              | Qvalue |
|-------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 4891  | 0.243 ug/l   | 96     |
| 3) Chloromethane              | 1.33 | 50  | 4690  | 0.262 ug/l   | 97     |
| 4) Vinyl Chloride             | 1.40 | 62  | 5169  | 0.257 ug/l   | 98     |
| 5) Bromomethane               | 1.63 | 94  | 3885  | 0.283 ug/l   | 96     |
| 6) Chloroethane               | 1.70 | 64  | 3126  | 0.259 ug/l   | 99     |
| 7) Trichlorofluoromethane     | 1.88 | 101 | 6794  | 0.248 ug/l   | 96     |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 4073  | 0.255 ug/l   | 97     |
| 9) 1,1-Dichloroethene         | 2.28 | 96  | 3601  | 0.231 ug/l   | 81     |
| 10) Iodomethane               | 2.41 | 142 | 2931  | 0.740 ug/l   | 94     |
| 11) Allyl Chloride            | 2.59 | 41  | 5698  | 0.260 ug/l   | 94     |
| 12) Acrylonitrile             | 2.93 | 53  | 1928  | 0.566 ug/l # | 95     |
| 13) Acetone                   | 2.32 | 43  | 4316  | 1.530 ug/l # | 86     |
| 14) Carbon Disulfide          | 2.47 | 76  | 12169 | 0.241 ug/l   | 96     |
| 15) Methylene Chloride        | 2.69 | 84  | 6864  | 0.366 ug/l   | 97     |
| 16) trans-1,2-Dichloroethene  | 2.97 | 96  | 4531  | 0.257 ug/l # | 80     |
| 17) 1,1-Dichloroethane        | 3.44 | 63  | 7014  | 0.238 ug/l   | 98     |
| 18) 2-Butanone                | 4.29 | 43  | 4493  | 1.172 ug/l   | 98     |
| 19) Cyclohexane               | 4.98 | 56  | 4525  | 0.197 ug/l   | 92     |
| 20) Methylcyclohexane         | 6.41 | 83  | 5377  | 0.201 ug/l   | 88     |
| 21) 2,2-Dichloropropane       | 4.22 | 77  | 6110  | 0.253 ug/l # | 87     |
| 22) cis-1,2-Dichloroethene    | 4.22 | 96  | 4359  | 0.233 ug/l   | 90     |
| 23) Diethyl Ether             | 2.10 | 59  | 2882  | 0.246 ug/l # | 91     |
| 24) tert-Butyl Alcohol        | 2.84 | 59  | 3925  | 3.250 ug/l # | 85     |
| 25) Methyl tert-Butyl Ether   | 3.00 | 73  | 9570  | 0.243 ug/l   | 95     |
| 26) Bromochloromethane        | 4.55 | 128 | 2071  | 0.249 ug/l   | 88     |
| 27) Chloroform                | 4.67 | 83  | 7111  | 0.238 ug/l   | 84     |
| 28) 1,1,1-Trichloroethane     | 4.91 | 97  | 3474  | 0.137 ug/l # | 49     |
| 29) 1,1-Dichloropropene       | 5.13 | 75  | 5144  | 0.228 ug/l   | 95     |
| 30) Carbon Tetrachloride      | 5.13 | 117 | 4709  | 0.213 ug/l   | 100    |
| 31) Isopropyl Ether           | 3.57 | 45  | 9758  | 0.240 ug/l   | 97     |
| 32) Ethyl-t-butyl ether       | 4.07 | 59  | 9504  | 0.240 ug/l   | 100    |
| 33) Tert-Amyl methyl ether    | 5.58 | 73  | 8301  | 0.227 ug/l # | 93     |
| 34) Propionitrile             | 4.35 | 54  | 826   | 0.724 ug/l # | 50     |
| 35) Benzene                   | 5.39 | 78  | 16137 | 0.243 ug/l   | 99     |
| 36) 1,2-Dichloroethane        | 5.41 | 62  | 4229  | 0.233 ug/l   | 95     |
| 37) Trichloroethene           | 6.19 | 130 | 4409  | 0.228 ug/l   | 100    |
| 38) 1,2-Dichloropropane       | 6.43 | 63  | 3697  | 0.220 ug/l # | 82     |
| 39) Methacrylonitrile         | 4.55 | 41  | 656   | 0.137 ug/l # | 76     |
| 40) Methyl acrylate           | 4.44 | 55  | 800   | 0.106 ug/l # | 66     |
| 41) Tetrahydrofuran           | 4.66 | 42  | 1151  | 0.459 ug/l # | 53     |
| 42) 1-Chlorobutane            | 5.06 | 56  | 7138  | 0.248 ug/l   | 92     |

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Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Quant Time: Mar 08 01:12:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U030719DW.M  
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Fri Mar 08 00:30:10 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 43) Dibromomethane             | 6.56  | 93   | 2062     | 0.237 | ug/l   | 94       |
| 44) Bromodichloromethane       | 6.76  | 83   | 4714     | 0.221 | ug/l # | 96       |
| 45) 4-Methyl-2-Pentanone       | 7.47  | 43   | 9146     | 1.008 | ug/l   | 99       |
| 46) t-1,4-Dichloro-2-butene    | 10.49 | 75   | 3802     | 1.002 | ug/l # | 44       |
| 47) Methyl methacrylate        | 6.63  | 69   | 3001     | 0.402 | ug/l   | 94       |
| 48) Ethyl methacrylate         | 8.03  | 69   | 2431     | 0.170 | ug/l   | 92       |
| 49) Toluene                    | 7.64  | 92   | 8482     | 0.208 | ug/l   | 98       |
| 50) t-1,3-Dichloropropene      | 7.88  | 75   | 3812     | 0.203 | ug/l   | 99       |
| 51) cis-1,3-Dichloropropene    | 7.27  | 75   | 4929     | 0.213 | ug/l   | 91       |
| 52) 1,1,2-Trichloroethane      | 8.07  | 97   | 2948     | 0.229 | ug/l   | 90       |
| 53) 1,3-Dichloropropane        | 8.24  | 76   | 4839     | 0.229 | ug/l   | 91       |
| 54) 2-Hexanone                 | 8.38  | 43   | 5506     | 0.873 | ug/l   | 93       |
| 55) Dibromochloromethane       | 8.47  | 129  | 3229     | 0.211 | ug/l   | 98       |
| 56) 1,2-Dibromoethane          | 8.58  | 107  | 2670     | 0.219 | ug/l   | 99       |
| 58) Tetrachloroethene          | 8.22  | 164  | 4970     | 0.251 | ug/l   | 92       |
| 59) Chlorobenzene              | 9.12  | 112  | 10292    | 0.220 | ug/l   | 99       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 3846     | 0.229 | ug/l   | 99       |
| 61) Pentachloroethane          | 11.10 | 117  | 2346     | 0.201 | ug/l   | 96       |
| 62) Hexachloroethane           | 12.14 | 117  | 2334     | 0.190 | ug/l   | 93       |
| 63) Ethyl Benzene              | 9.25  | 91   | 15448    | 0.201 | ug/l   | 100      |
| 64) m/p-Xylenes                | 9.38  | 106  | 11768    | 0.388 | ug/l   | 99       |
| 65) o-Xylene                   | 9.78  | 106  | 5987     | 0.206 | ug/l   | 100      |
| 66) Styrene                    | 9.79  | 104  | 8431     | 0.174 | ug/l   | 95       |
| 67) Bromoform                  | 9.96  | 173  | 1763     | 0.196 | ug/l # | 93       |
| 69) Isopropylbenzene           | 10.16 | 105  | 15808    | 0.205 | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 3488     | 0.222 | ug/l   | 97       |
| 71) 1,2,3-Trichloropropane     | 10.49 | 75   | 3802     | 0.326 | ug/l # | 69       |
| 72) Bromobenzene               | 10.45 | 156  | 4481     | 0.219 | ug/l   | 98       |
| 73) n-propylbenzene            | 10.58 | 120  | 4203     | 0.194 | ug/l   | 98       |
| 74) 2-Chlorotoluene            | 10.66 | 126  | 3733     | 0.194 | ug/l   | 86       |
| 75) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 12132    | 0.186 | ug/l   | 99       |
| 76) 4-Chlorotoluene            | 10.77 | 126  | 3723     | 0.190 | ug/l   | 88       |
| 77) tert-Butylbenzene          | 11.10 | 119  | 12728    | 0.198 | ug/l   | 98       |
| 78) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 12494    | 0.190 | ug/l   | 97       |
| 79) sec-Butylbenzene           | 11.32 | 105  | 16246    | 0.190 | ug/l   | 98       |
| 80) Nitrobenzene               | 12.68 | 77   | 43       | 0.151 | ug/l # | 39       |
| 81) p-Isopropyltoluene         | 11.48 | 119  | 13062    | 0.183 | ug/l   | 97       |
| 82) 1,3-Dichlorobenzene        | 11.42 | 146  | 8886     | 0.219 | ug/l   | 98       |
| 83) 1,4-Dichlorobenzene        | 11.51 | 146  | 8624     | 0.218 | ug/l   | 93       |
| 84) n-Butylbenzene             | 11.89 | 91   | 11943    | 0.184 | ug/l   | 98       |
| 85) 1,2-Dichlorobenzene        | 11.88 | 146  | 8531     | 0.223 | ug/l   | 98       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 275      | 0.123 | ug/l # | 79       |
| 87) 1,2,4-Trichlorobenzene     | 13.51 | 180  | 3825     | 0.156 | ug/l   | 88       |
| 88) Hexachlorobutadiene        | 13.69 | 225  | 3369     | 0.219 | ug/l   | 98       |
| 89) Naphthalene                | 13.76 | 128  | 4981     | 0.558 | ug/l # | 86       |
| 90) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 3823     | 0.166 | ug/l   | 89       |

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

Data File : VU029847.D

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Operator : JC/SP

Sample : MDL04

Misc : 25.0mL/MSVOA U/WATER

```
ALS Vial      : 5      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
MDL04

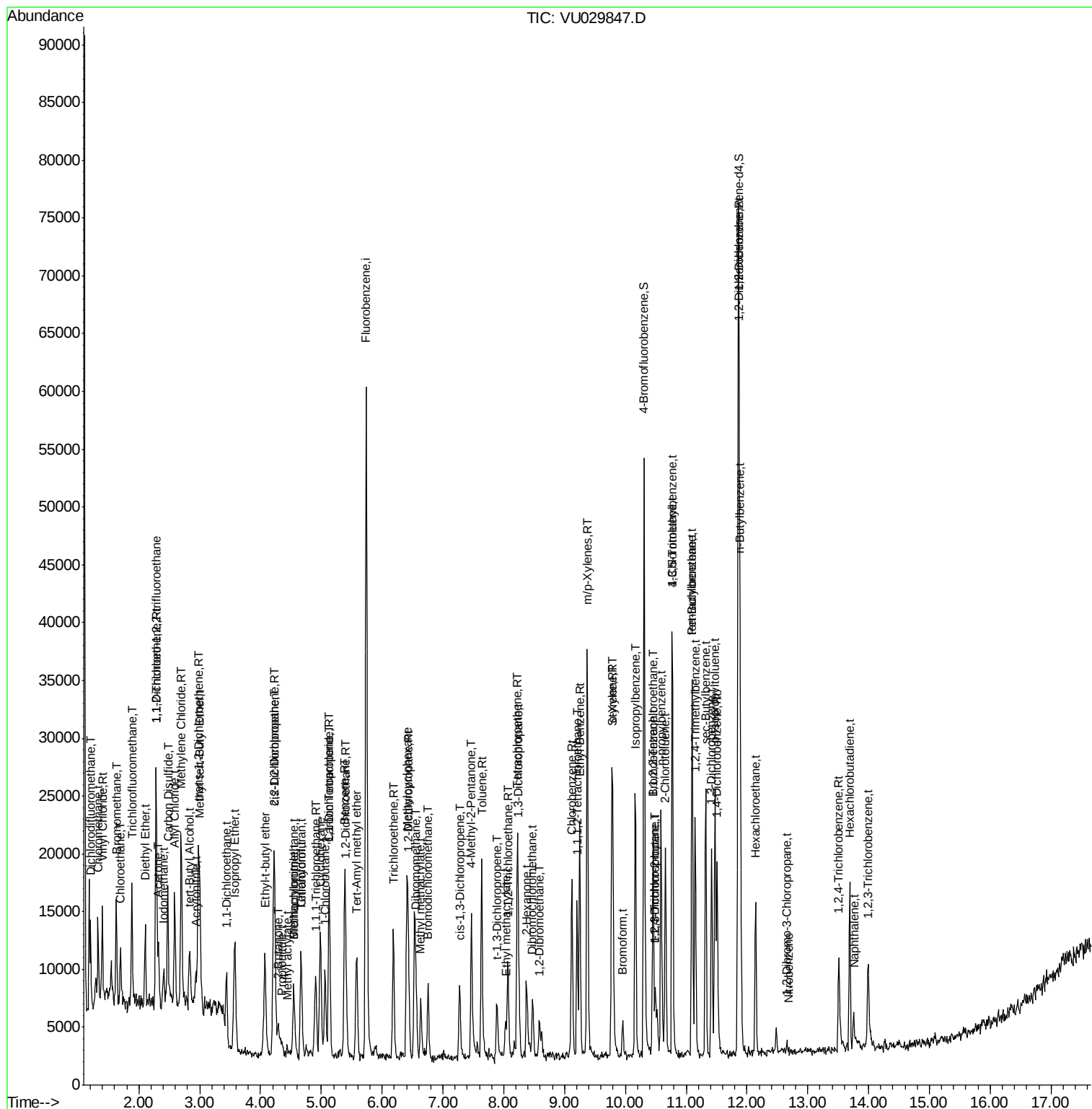
Quant Time: Mar 08 01:12:13 2019

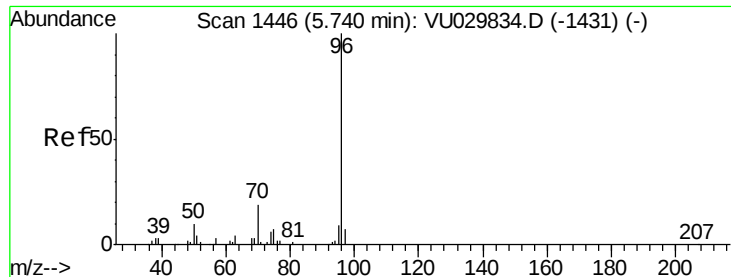
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_U\METHOD\524U030719DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Fri Mar 08 00:30:10 2019

Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

Tgt Ion: 96 Resp: 60044

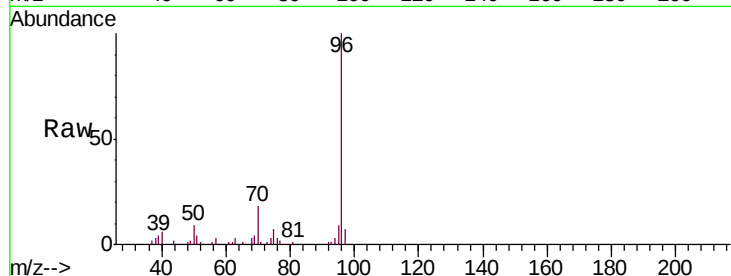
Ion Ratio Lower Upper

96 100

70 18.5 14.4 21.6

95 8.1 7.0 10.6

97 6.5 0.0 0.0#

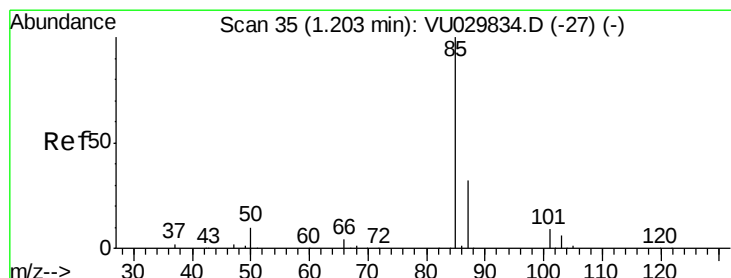
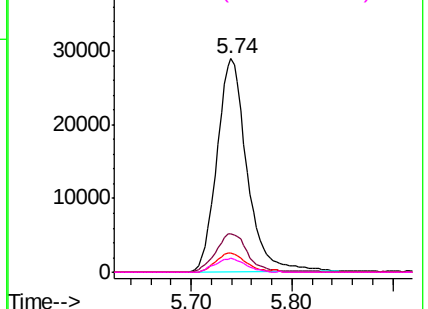
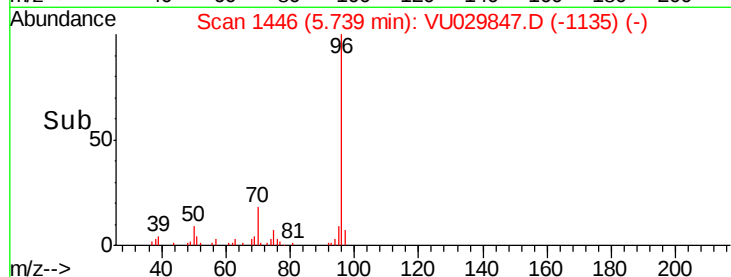


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#2

Dichlorodifluoromethane

Concen: 0.243 ug/l

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU029847.D

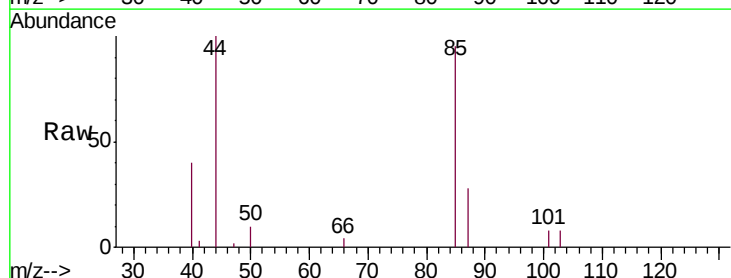
Acq: 07 Mar 2019 11:17

Tgt Ion: 85 Resp: 4891

Ion Ratio Lower Upper

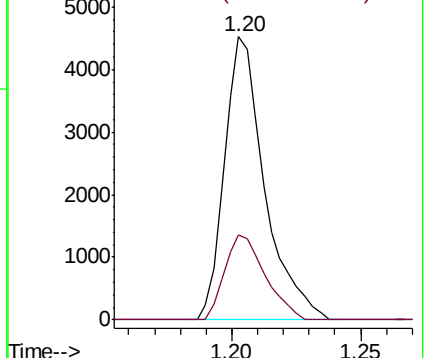
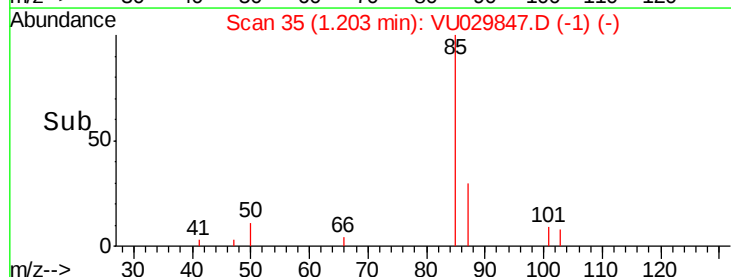
85 100

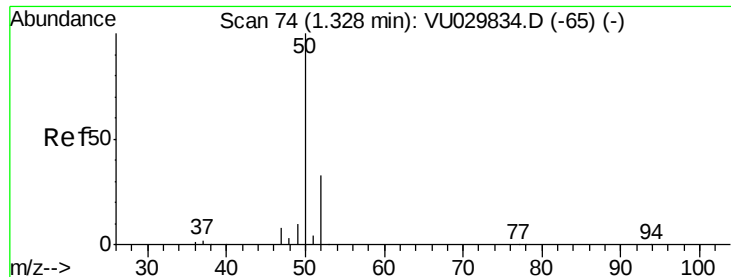
87 29.9 16.2 48.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#3

Chloromethane

Concen: 0.262 ug/l

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

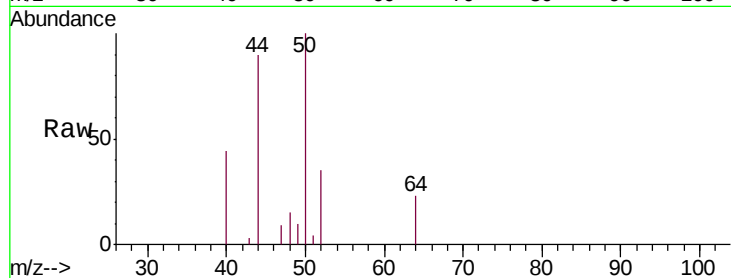
MDL04

Tgt Ion: 50 Resp: 4690

Ion Ratio Lower Upper

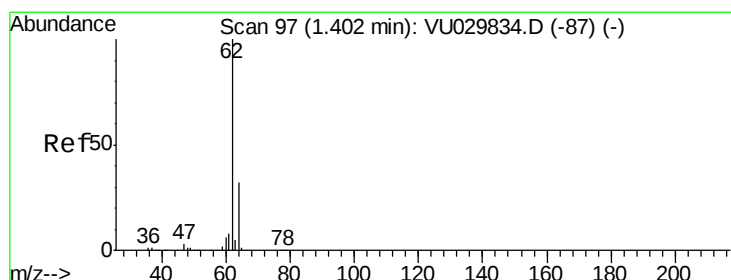
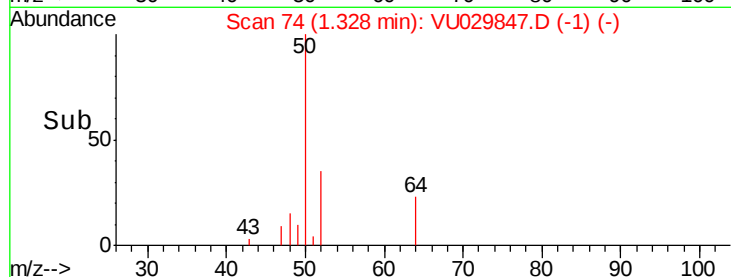
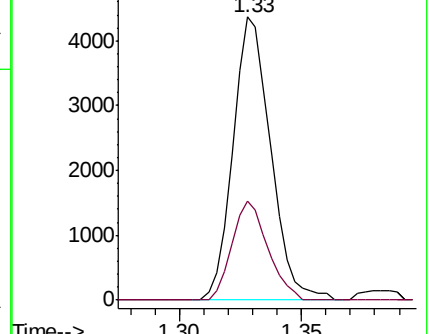
50 100

52 35.0 26.5 39.7



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#4

Vinyl Chloride

Concen: 0.257 ug/l

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029847.D

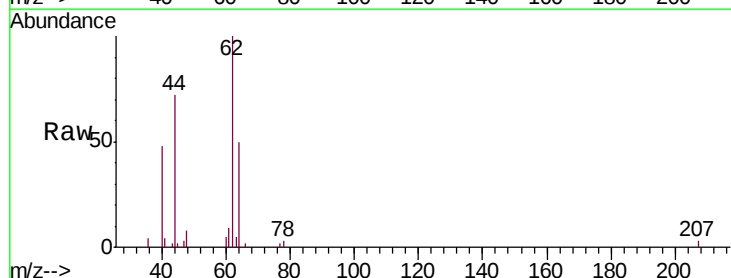
Acq: 07 Mar 2019 11:17

Tgt Ion: 62 Resp: 5169

Ion Ratio Lower Upper

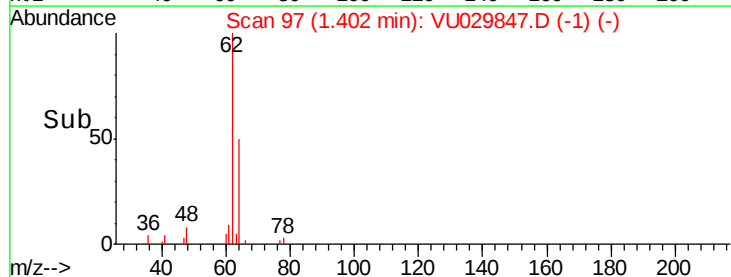
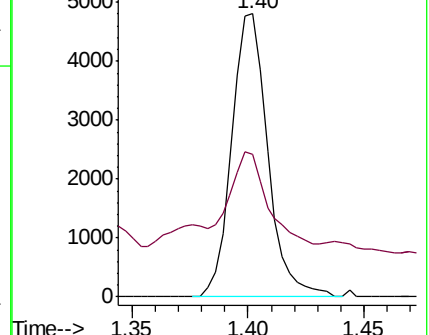
62 100

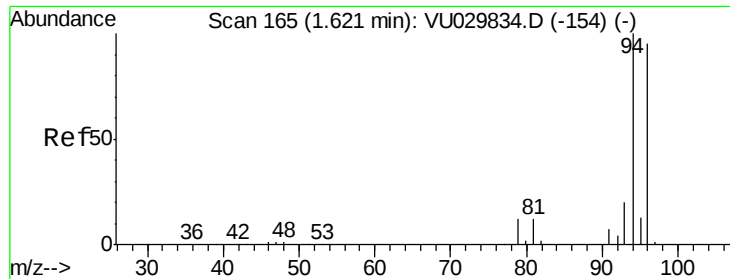
64 31.0 25.7 38.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#5

Bromomethane

Concen: 0.283 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

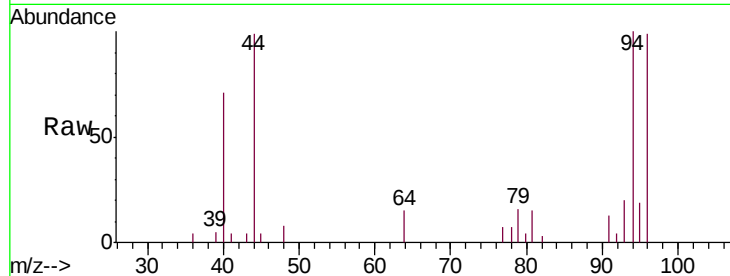
MDL04

Tgt Ion: 94 Resp: 3885

Ion Ratio Lower Upper

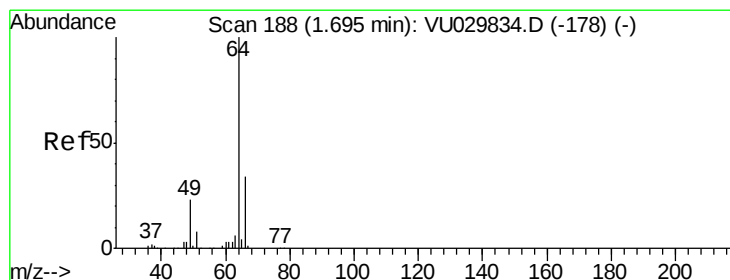
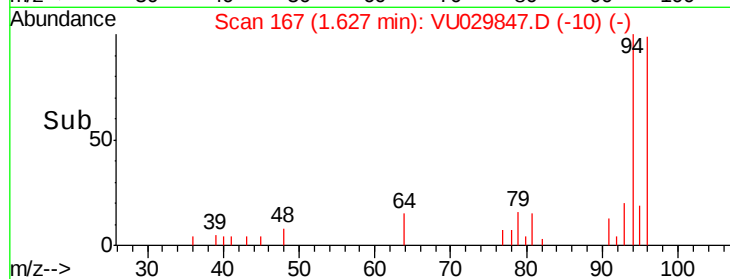
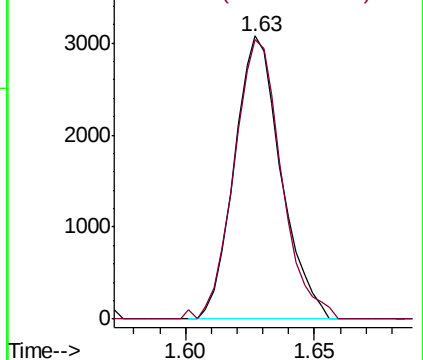
94 100

96 98.9 76.4 114.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 0.259 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029847.D

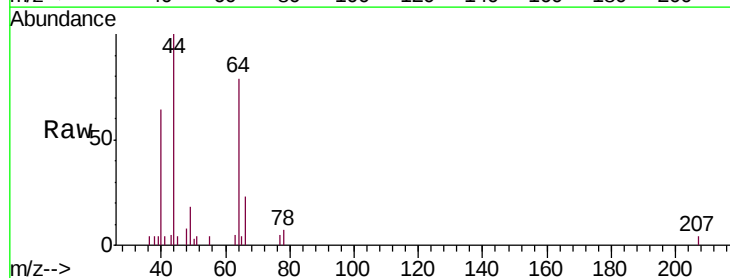
Acq: 07 Mar 2019 11:17

Tgt Ion: 64 Resp: 3126

Ion Ratio Lower Upper

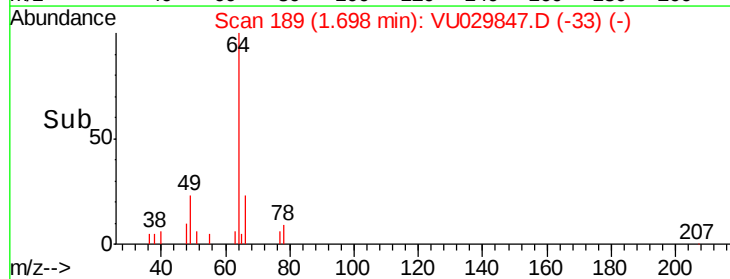
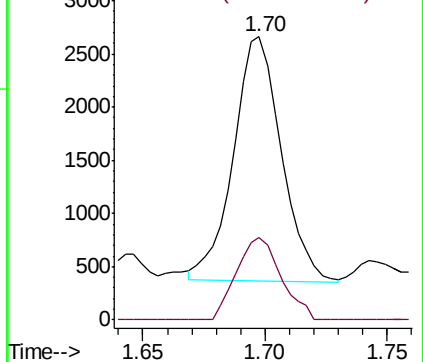
64 100

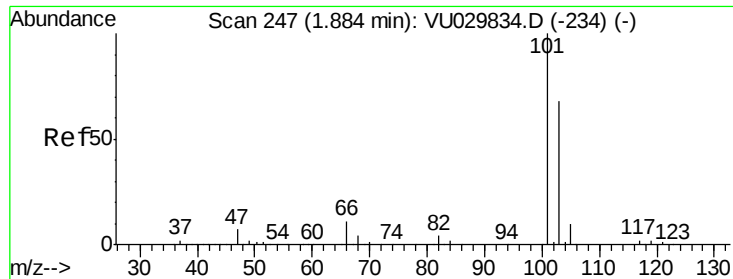
66 33.8 27.3 40.9



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



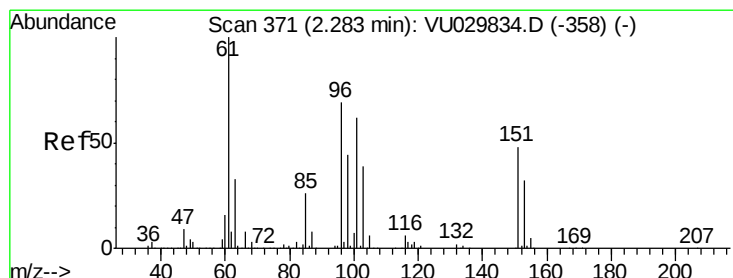
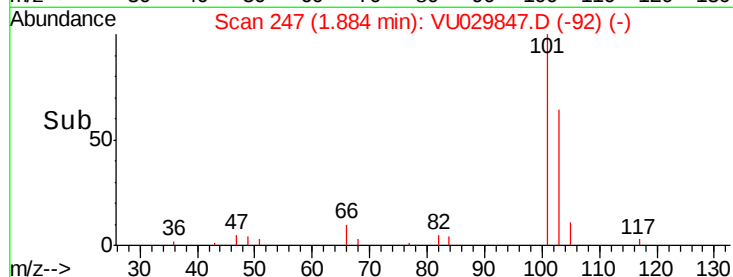
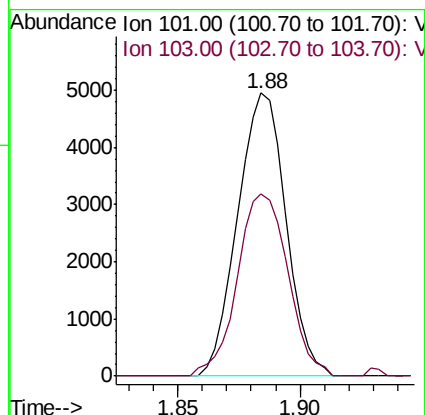
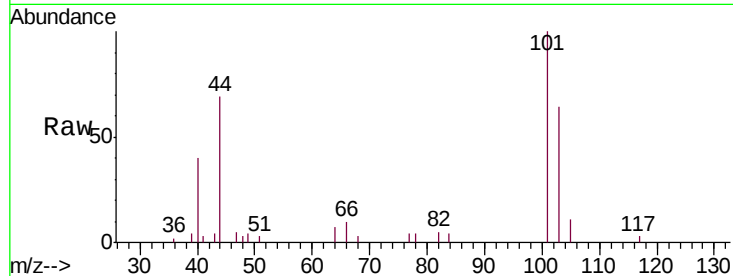


#7

Trichlorofluoromethane  
 Concen: 0.248 ug/l  
 RT: 1.88 min Scan# 247  
 Delta R.T. -0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL04

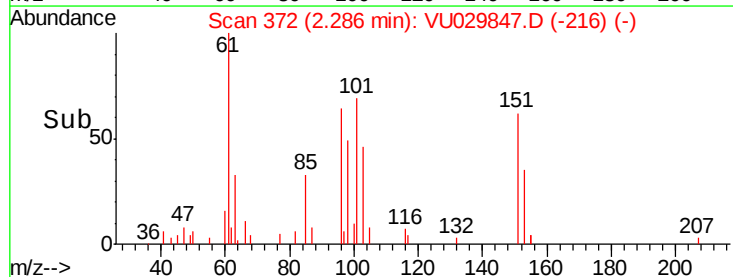
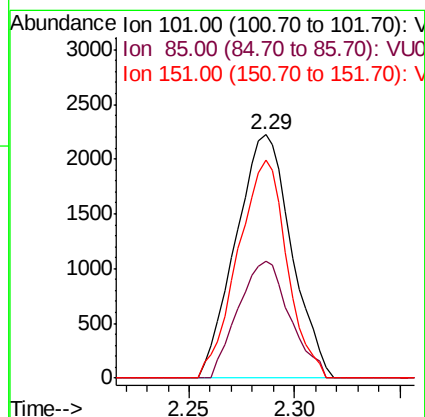
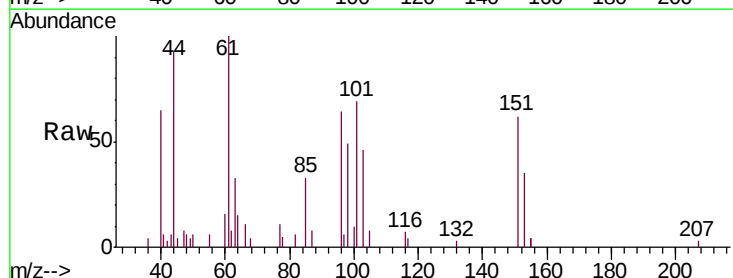
Tgt Ion:101 Resp: 6794  
 Ion Ratio Lower Upper  
 101 100  
 103 64.2 54.2 81.2

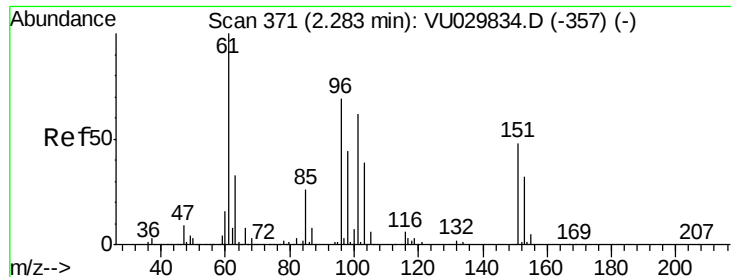


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.255 ug/l  
 RT: 2.29 min Scan# 372  
 Delta R.T. 0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion:101 Resp: 4073  
 Ion Ratio Lower Upper  
 101 100  
 85 44.6 33.4 50.0  
 151 79.4 64.6 97.0





#9

1,1-Dichloroethene

Concen: 0.231 ug/l

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampled :

MDL04

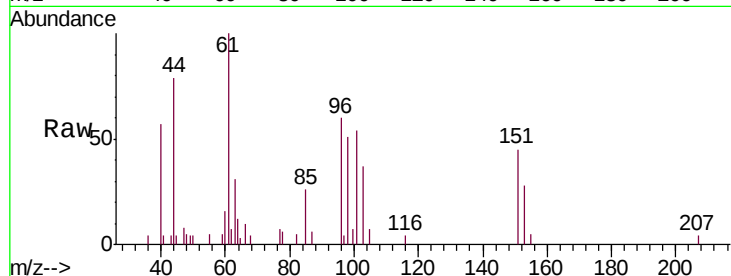
Tgt Ion: 96 Resp: 3601

Ion Ratio Lower Upper

96 100

61 165.4 0.0 435.3

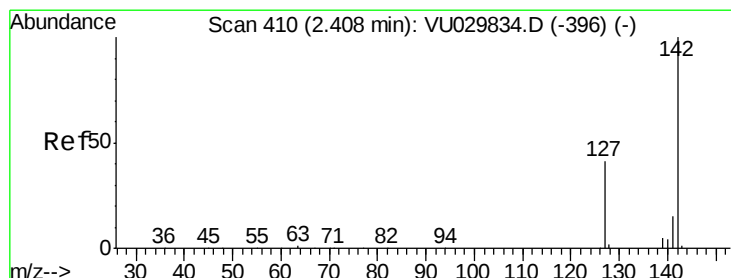
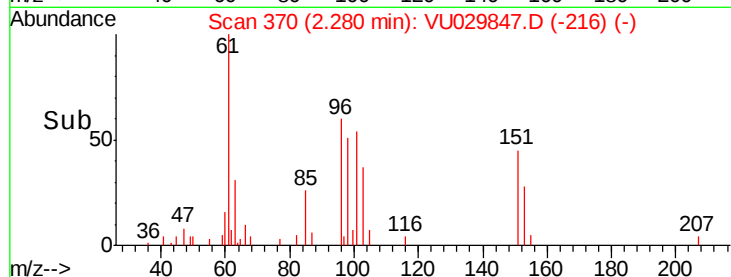
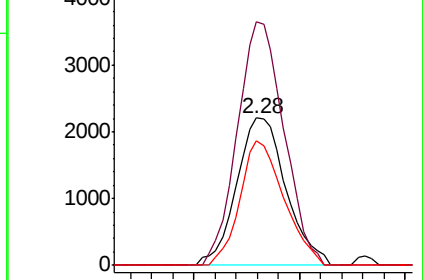
98 84.7 0.0 128.6



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#10

Iodomethane

Concen: 0.740 ug/l

RT: 2.41 min Scan# 410

Delta R.T. 0.00 min

Lab File: VU029847.D

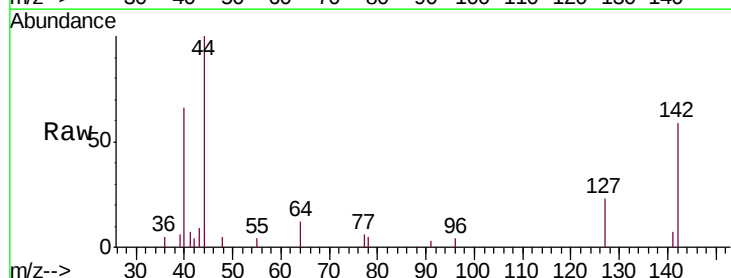
Acq: 07 Mar 2019 11:17

Tgt Ion: 142 Resp: 2931

Ion Ratio Lower Upper

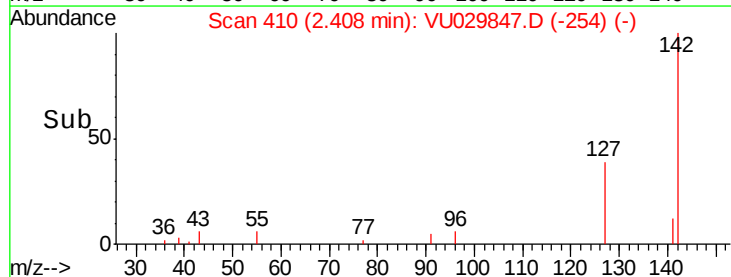
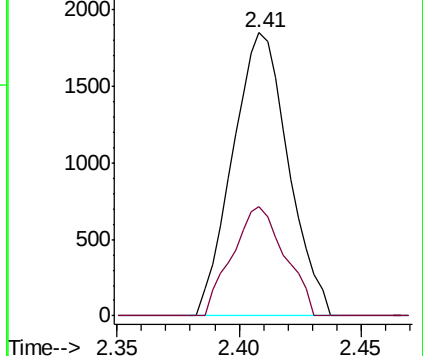
142 100

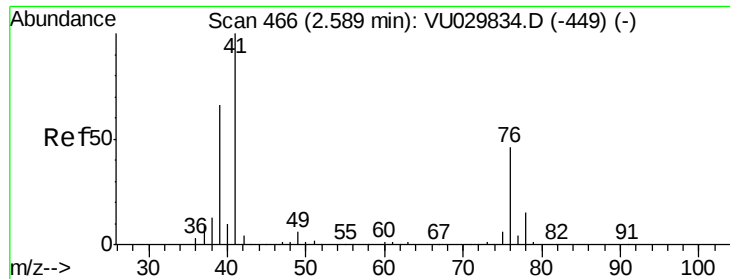
127 36.4 32.3 48.5



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

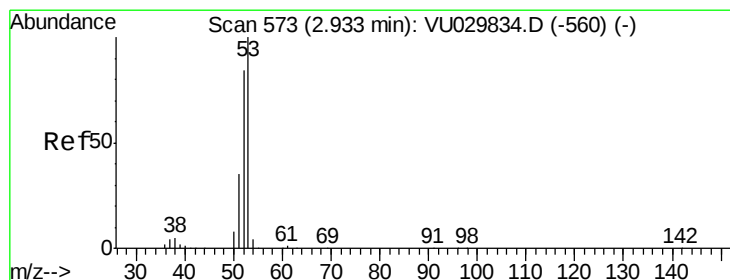
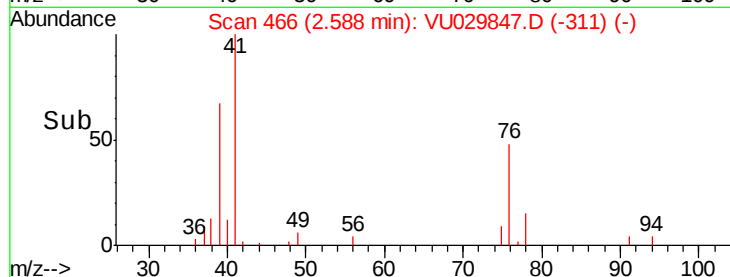
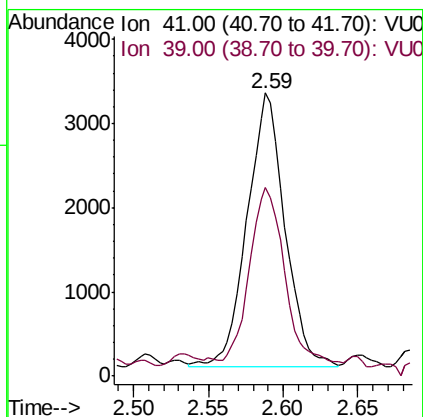
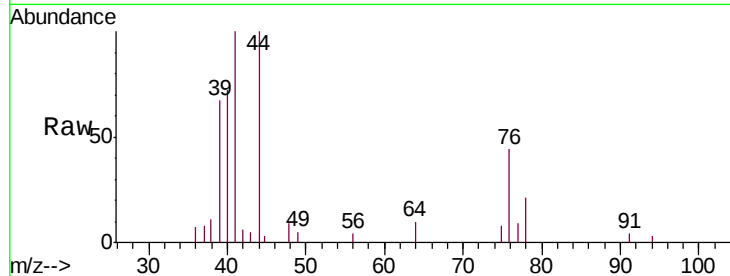




#11  
 Allyl Chloride  
 Concen: 0.260 ug/l  
 RT: 2.59 min Scan# 466  
 Delta R.T. -0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

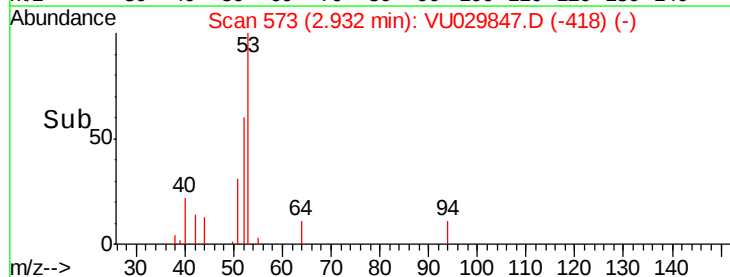
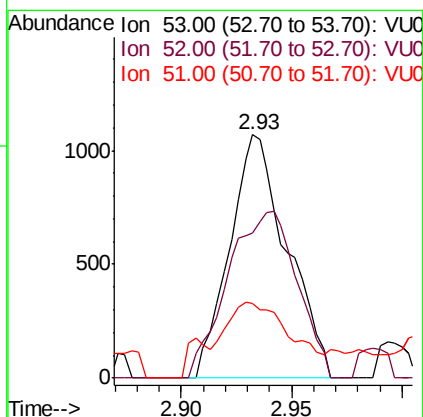
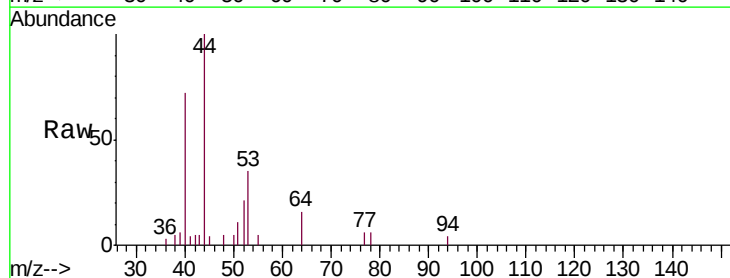
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL04

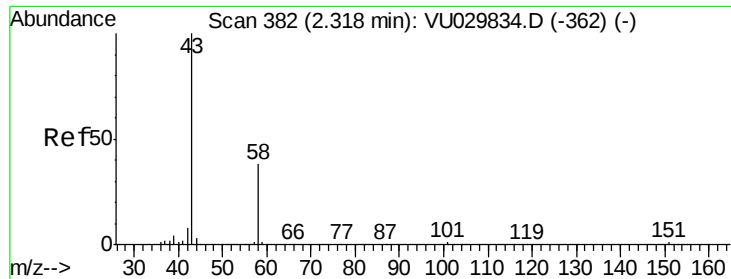
Tgt Ion: 41 Resp: 5698  
 Ion Ratio Lower Upper  
 41 100  
 39 59.7 51.6 77.4



#12  
 Acrylonitrile  
 Concen: 0.566 ug/l  
 RT: 2.93 min Scan# 573  
 Delta R.T. -0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion: 53 Resp: 1928  
 Ion Ratio Lower Upper  
 53 100  
 52 82.9 66.5 99.7  
 51 25.8 28.6 42.8#





#13

Acetone

Concen: 1.530 ug/l

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

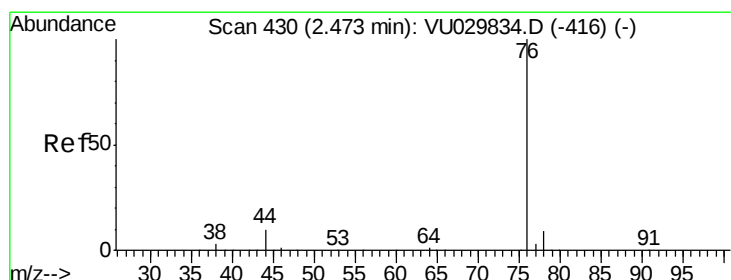
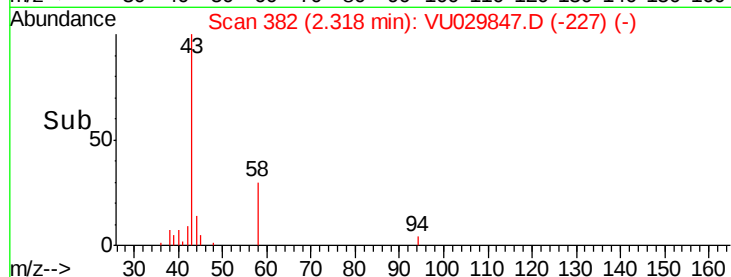
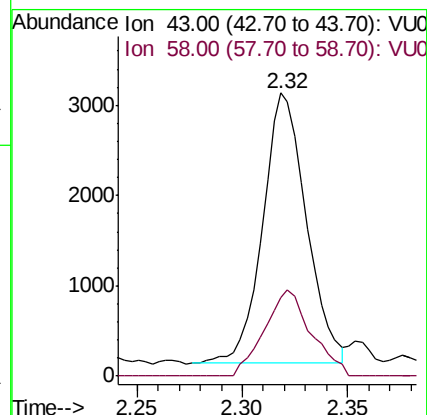
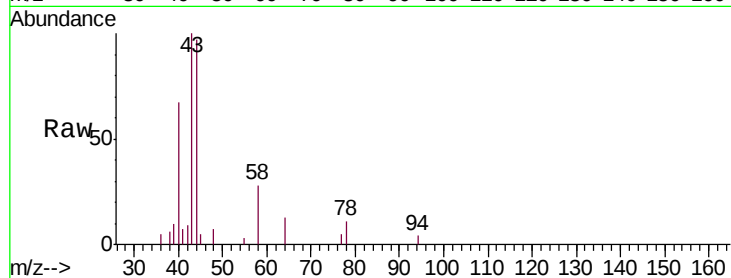
MDL04

Tgt Ion: 43 Resp: 4316

Ion Ratio Lower Upper

43 100

58 29.2 30.2 45.2#



#14

Carbon Disulfide

Concen: 0.241 ug/l

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU029847.D

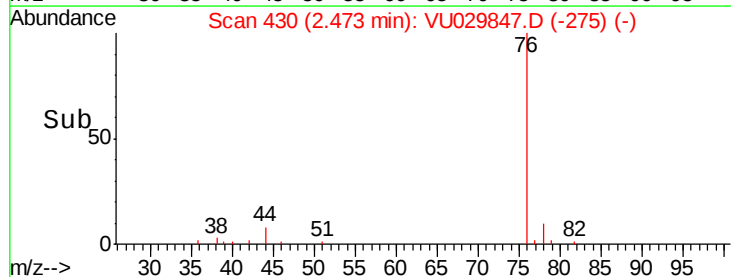
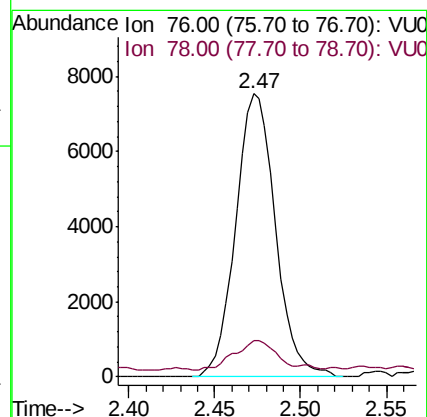
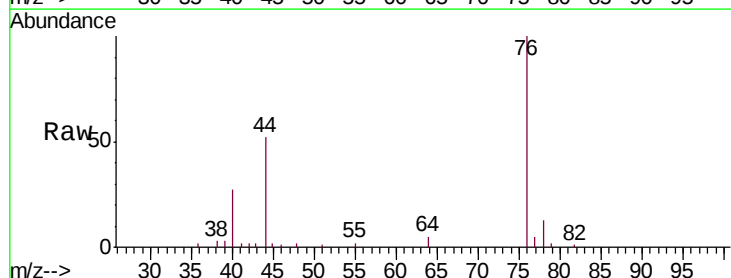
Acq: 07 Mar 2019 11:17

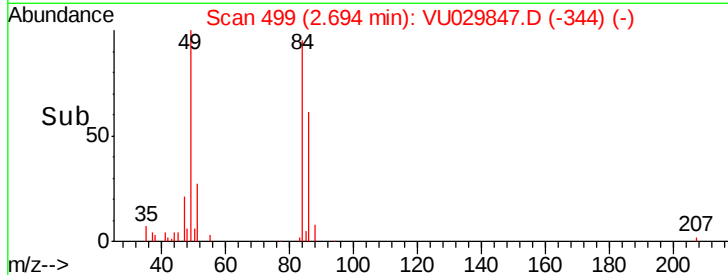
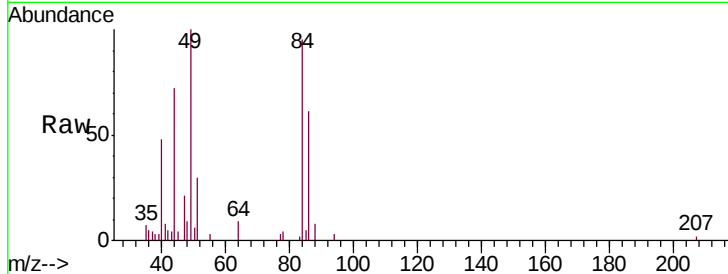
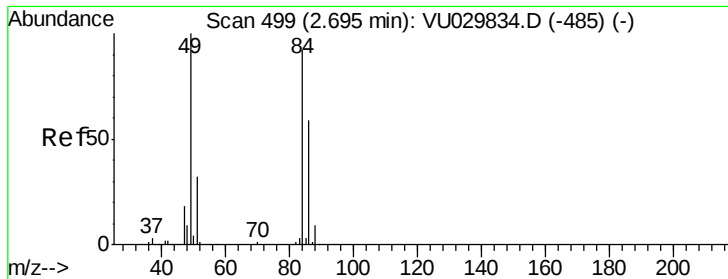
Tgt Ion: 76 Resp: 12169

Ion Ratio Lower Upper

76 100

78 10.5 7.2 10.8

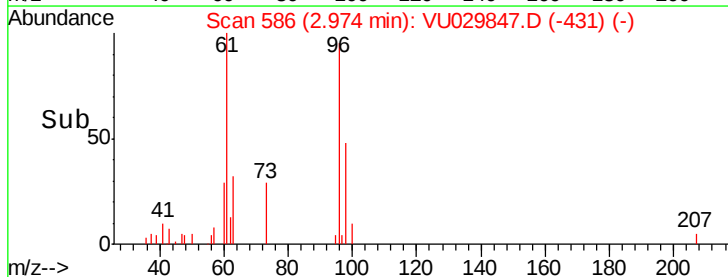
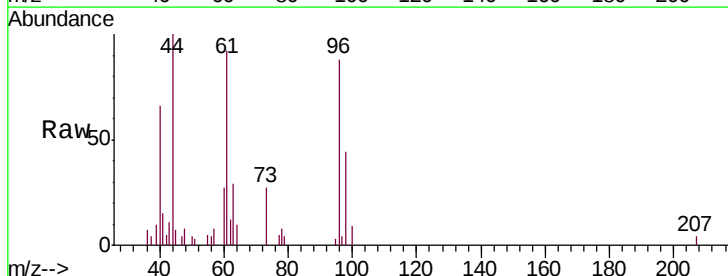
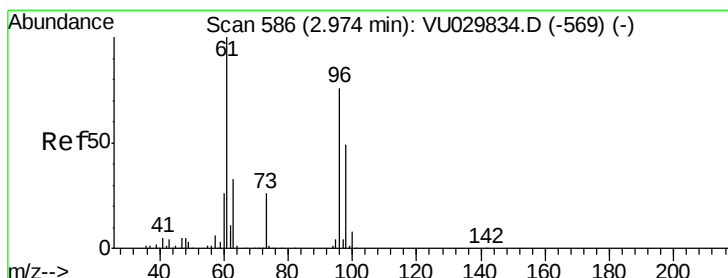
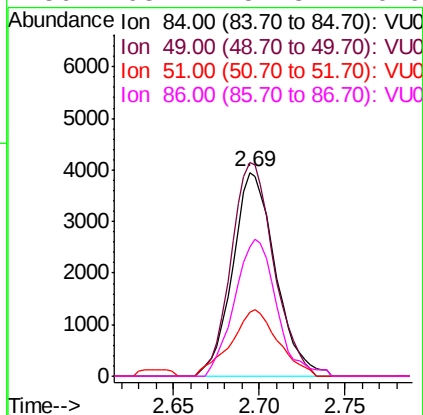




#15  
Methylene Chloride  
Concen: 0.366 ug/l  
RT: 2.69 min Scan# 499  
Delta R.T. -0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

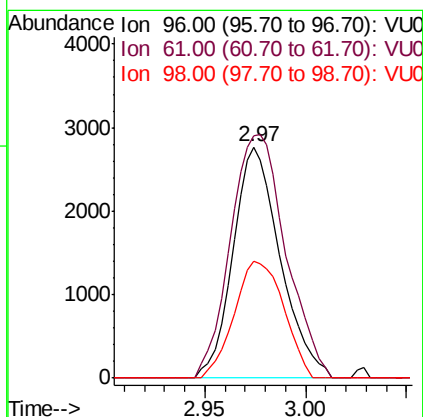
Instrument :  
MSVOA\_U  
ClientSampled :  
MDL04

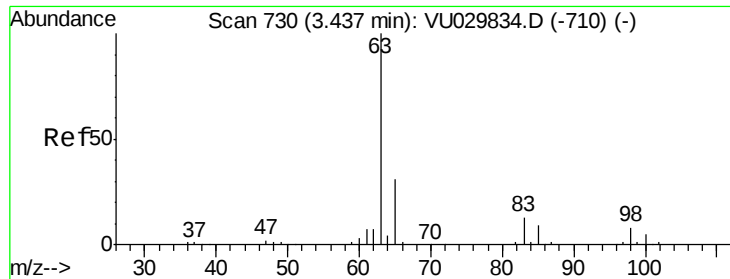
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 6864  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 104.9 | 87.2  | 130.8 |
| 51       | 31.2  | 0.0   | 69.0  |
| 86       | 63.4  | 51.3  | 76.9  |



#16  
trans-1,2-Dichloroethene  
Concen: 0.257 ug/l  
RT: 2.97 min Scan# 586  
Delta R.T. -0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 4531  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 105.2 | 104.7 | 157.1 |
| 98       | 50.5  | 50.9  | 76.3# |

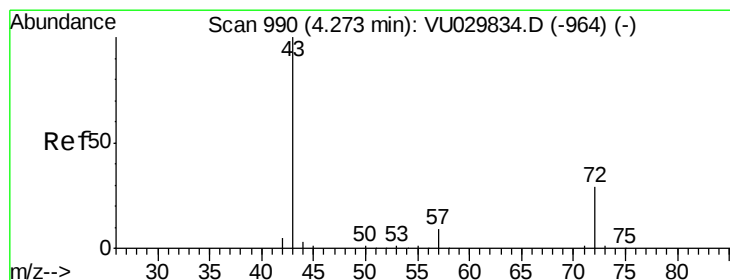
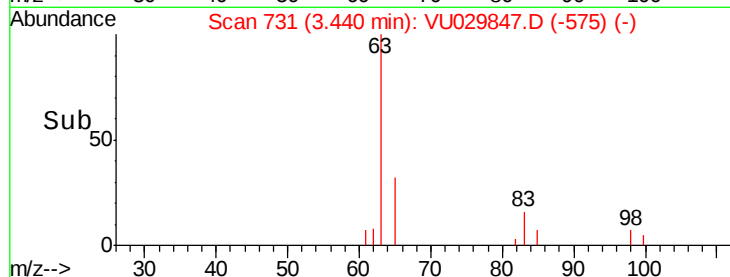
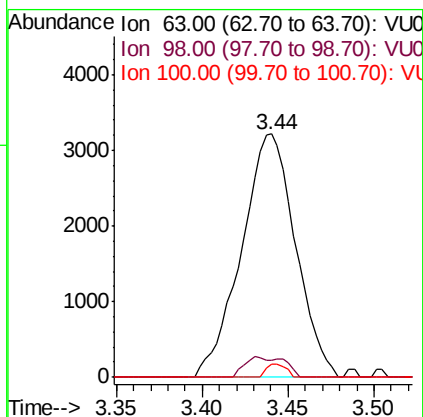
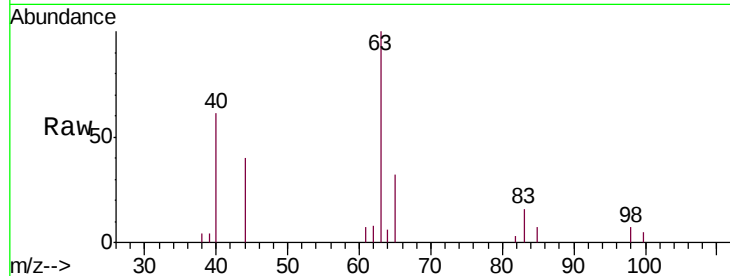




#17  
 1,1-Dichloroethane  
 Concen: 0.238 ug/l  
 RT: 3.44 min Scan# 731  
 Delta R.T. 0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

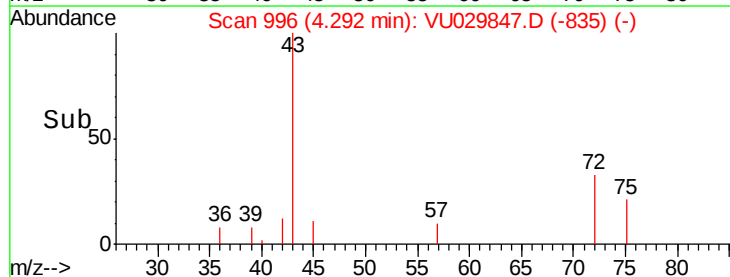
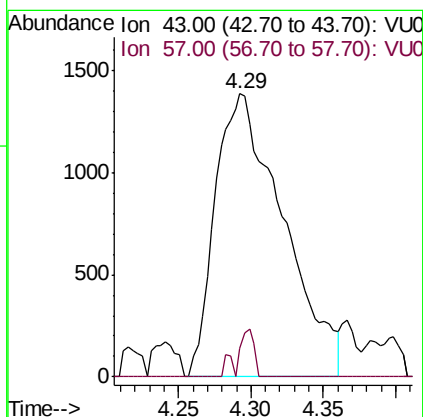
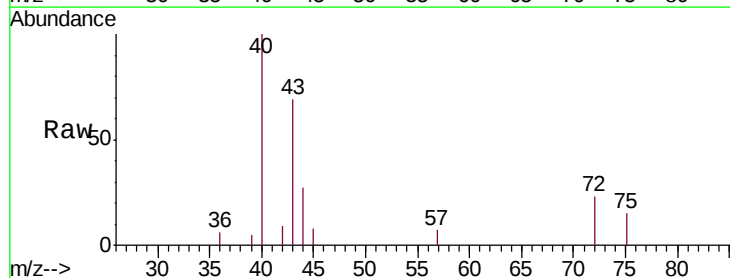
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

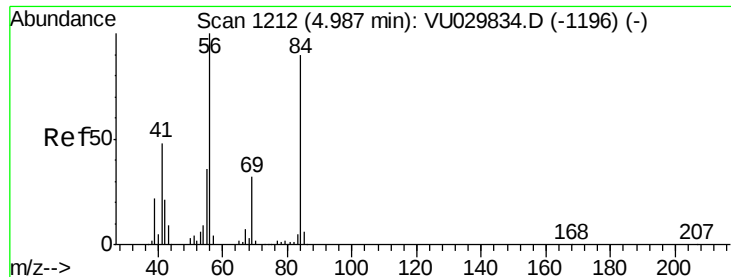
Tgt Ion: 63 Resp: 7014  
 Ion Ratio Lower Upper  
 63 100  
 98 6.8 3.8 11.4  
 100 5.2 2.4 7.1



#18  
 2-Butanone  
 Concen: 1.172 ug/l  
 RT: 4.29 min Scan# 996  
 Delta R.T. 0.02 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion: 43 Resp: 4493  
 Ion Ratio Lower Upper  
 43 100  
 57 10.1 0.0 18.6

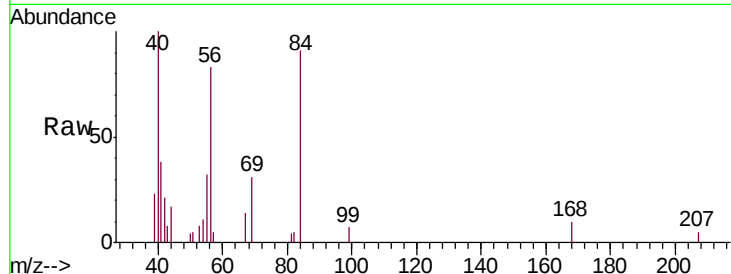




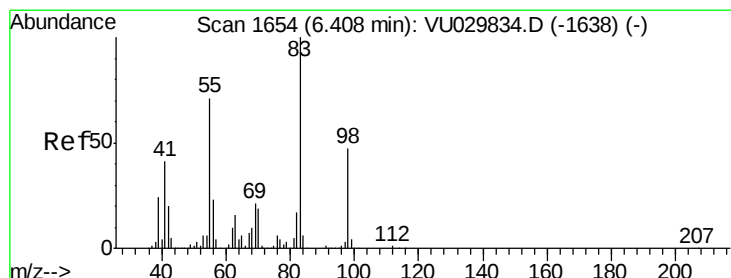
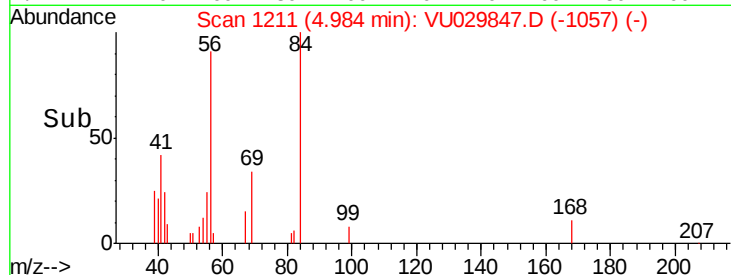
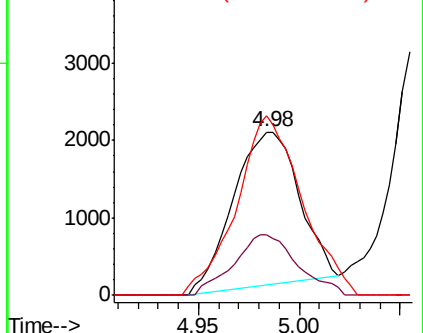
#19  
Cyclohexane  
Concen: 0.197 ug/l  
RT: 4.98 min Scan# 1211  
Delta R.T. -0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL04

Tgt Ion: 56 Resp: 4525  
Ion Ratio Lower Upper  
56 100  
69 38.3 29.4 44.2  
84 116.0 84.6 127.0

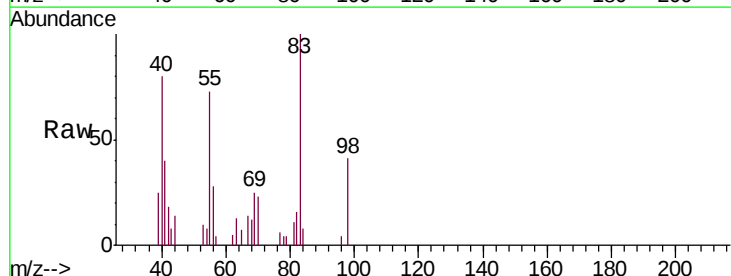


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

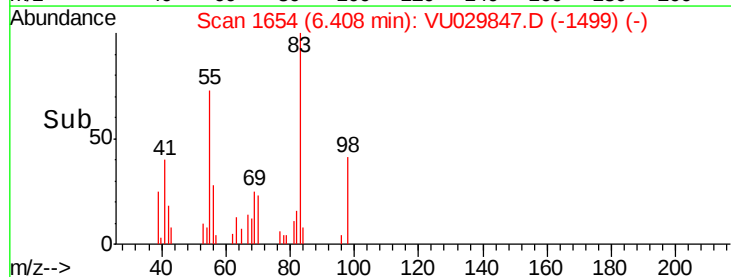
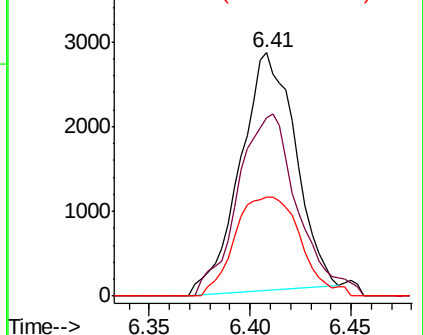


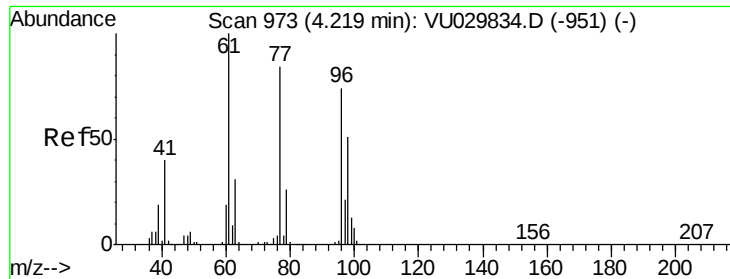
#20  
Methylcyclohexane  
Concen: 0.201 ug/l  
RT: 6.41 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Tgt Ion: 83 Resp: 5377  
Ion Ratio Lower Upper  
83 100  
55 83.1 55.9 83.9  
98 49.4 37.0 55.4



Abundance Ion 83.00 (82.70 to 83.70): VU0  
Ion 55.00 (54.70 to 55.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

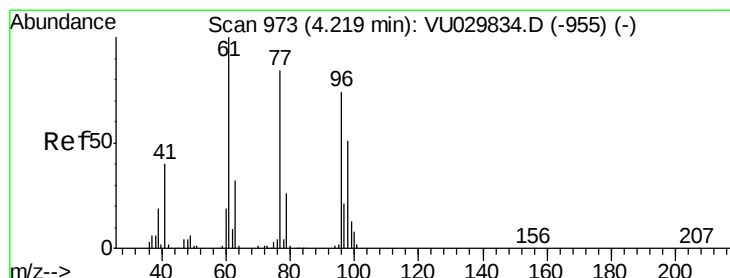
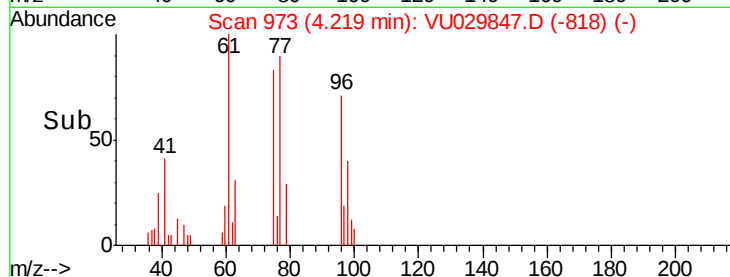
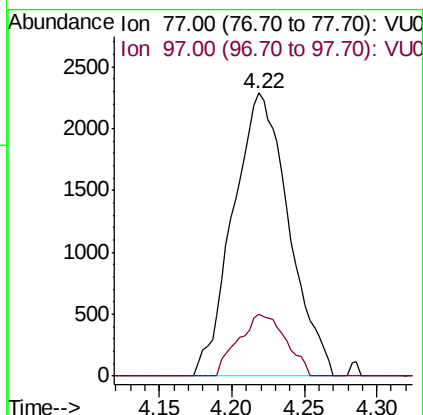
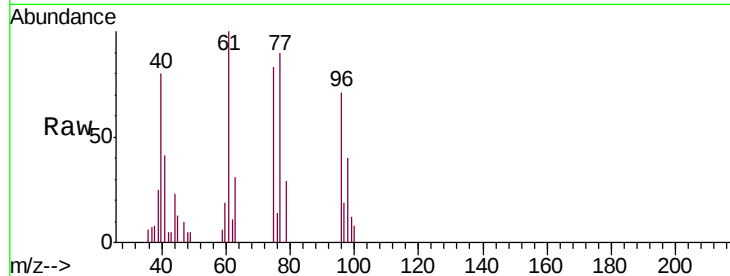




#21  
 2,2-Dichloropropane  
 Concen: 0.253 ug/l  
 RT: 4.22 min Scan# 973  
 Delta R.T. -0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

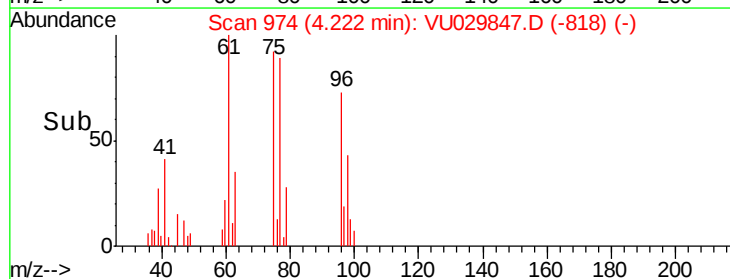
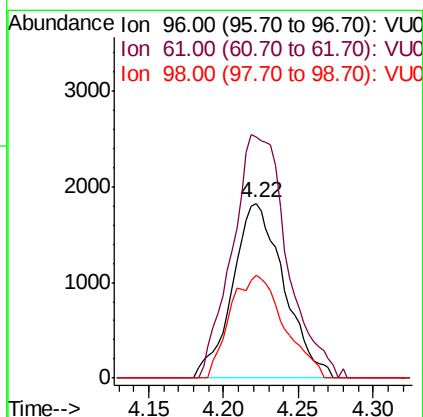
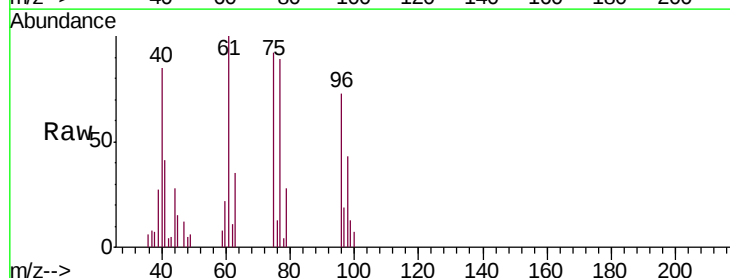
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL04

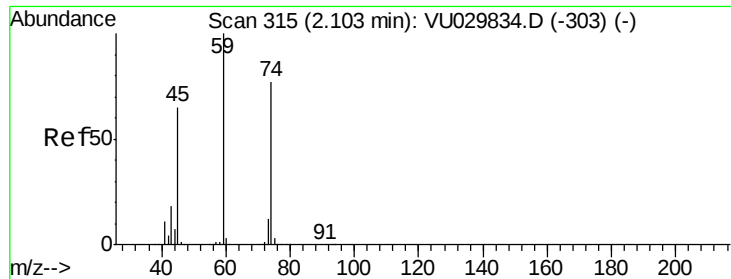
Tgt Ion: 77 Resp: 6110  
 Ion Ratio Lower Upper  
 77 100  
 97 18.6 20.2 30.2#



#22  
 cis-1,2-Dichloroethene  
 Concen: 0.233 ug/l  
 RT: 4.22 min Scan# 974  
 Delta R.T. 0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion: 96 Resp: 4359  
 Ion Ratio Lower Upper  
 96 100  
 61 149.3 0.0 339.0  
 98 61.5 33.1 99.5

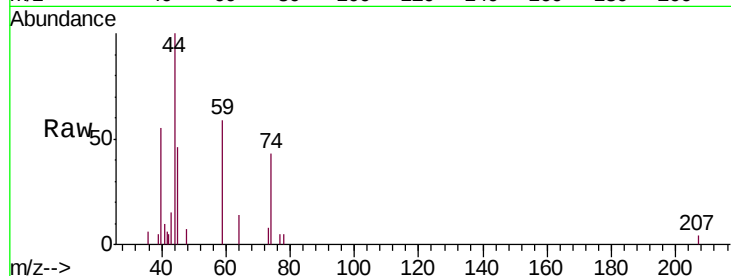




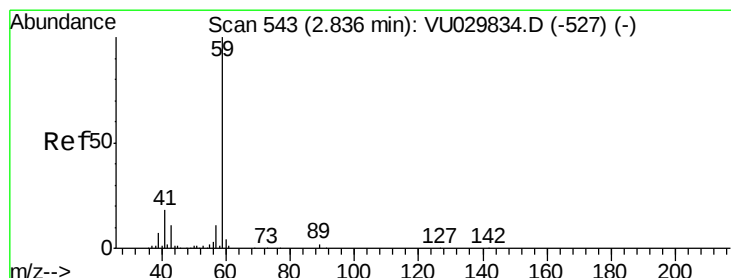
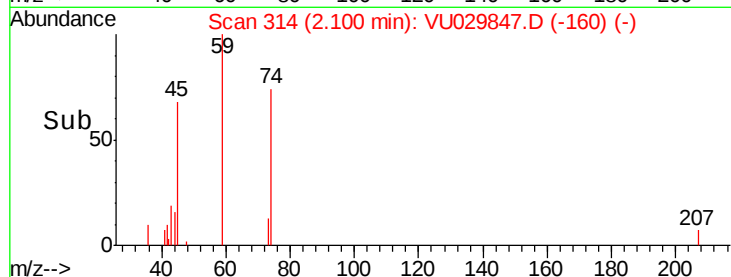
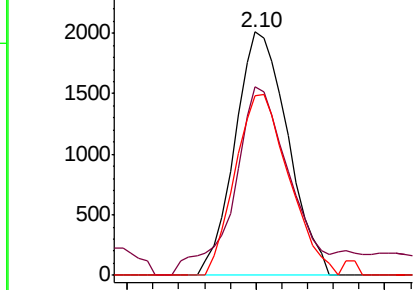
#23  
Diethyl Ether  
Concen: 0.246 ug/l  
RT: 2.10 min Scan# 314  
Delta R.T. -0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL04

Tgt Ion: 59 Resp: 2882  
Ion Ratio Lower Upper  
59 100  
45 80.5 52.7 79.1#  
74 75.6 61.8 92.6

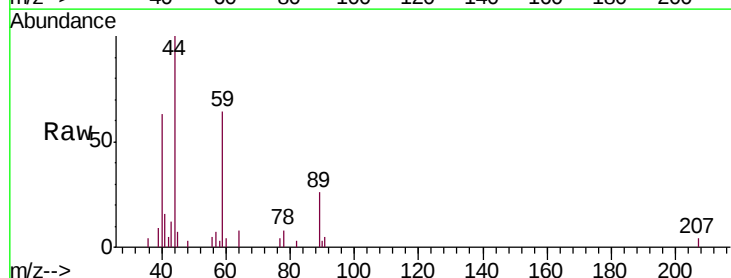


Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 45.00 (44.70 to 45.70): VU0  
Ion 74.00 (73.70 to 74.70): VU0

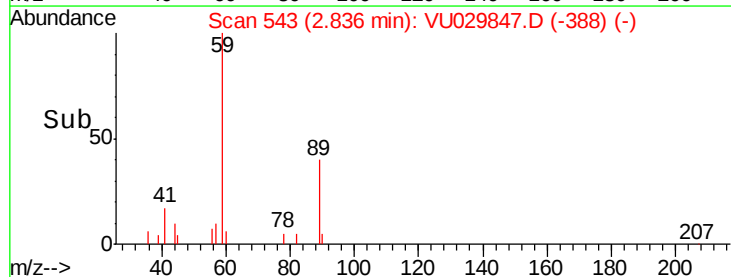
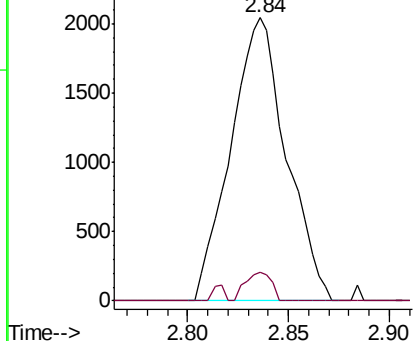


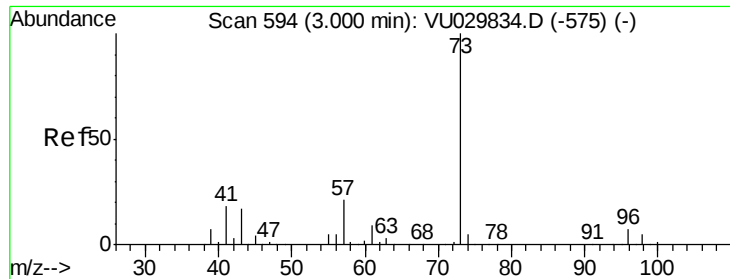
#24  
tert-Butyl Alcohol  
Concen: 3.250 ug/l  
RT: 2.84 min Scan# 543  
Delta R.T. -0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Tgt Ion: 59 Resp: 3925  
Ion Ratio Lower Upper  
59 100  
57 4.8 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0



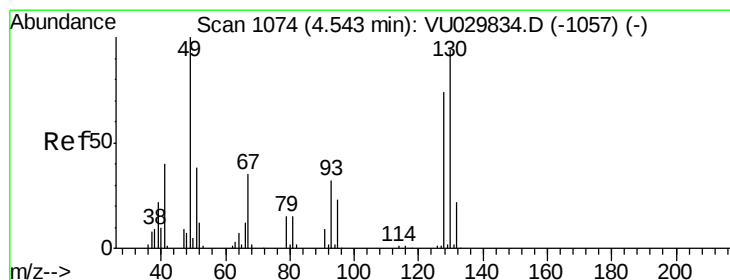
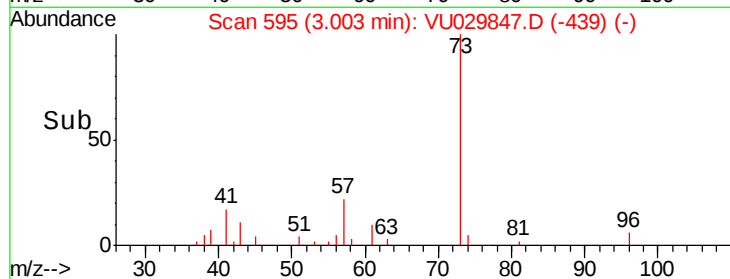
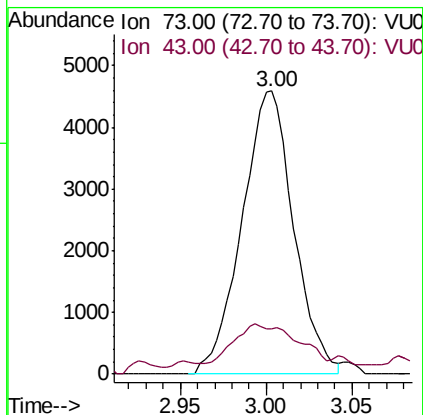
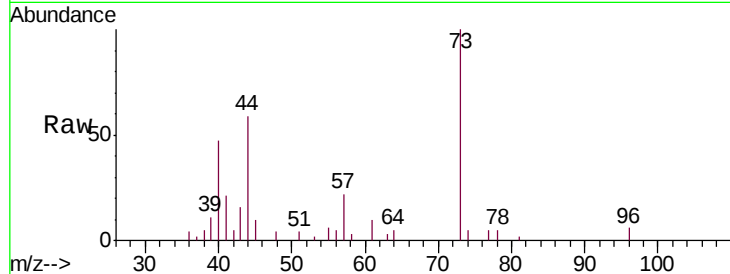


#25

Methyl tert-Butyl Ether  
 Concen: 0.243 ug/l  
 RT: 3.00 min Scan# 595  
 Delta R.T. 0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL04

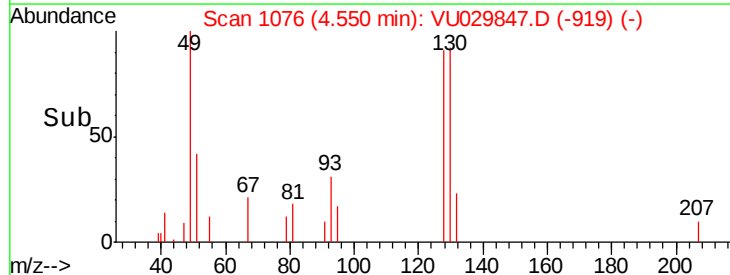
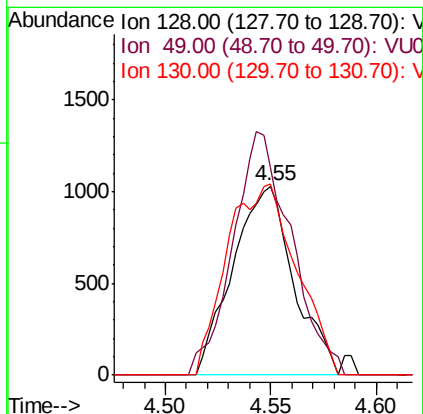
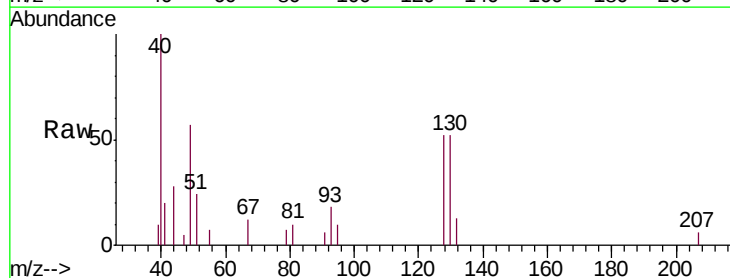
Tgt Ion: 73 Resp: 9570  
 Ion Ratio Lower Upper  
 73 100  
 43 18.3 13.1 19.7

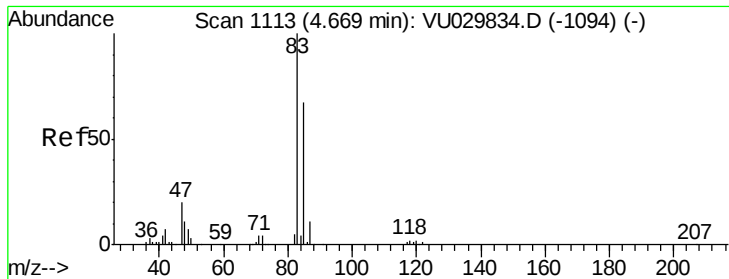


#26

Bromochloromethane  
 Concen: 0.249 ug/l  
 RT: 4.55 min Scan# 1076  
 Delta R.T. 0.01 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion: 128 Resp: 2071  
 Ion Ratio Lower Upper  
 128 100  
 49 122.7 0.0 270.6  
 130 115.4 104.2 156.4





#27

Chloroform

Concen: 0.238 ug/l

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

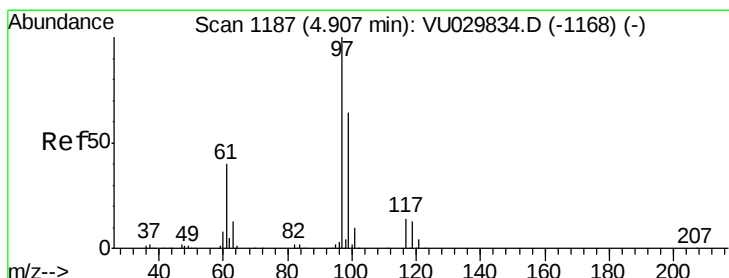
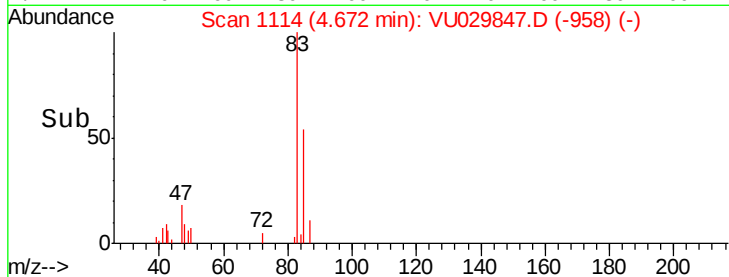
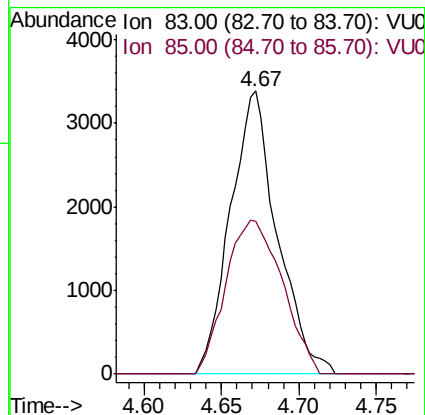
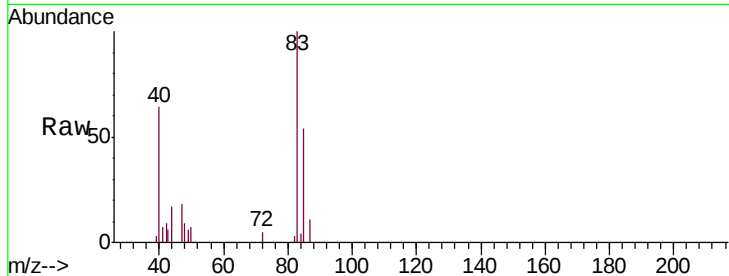
MDL04

Tgt Ion: 83 Resp: 7111

Ion Ratio Lower Upper

83 100

85 53.8 0.0 133.2



#28

1,1,1-Trichloroethane

Concen: 0.137 ug/l

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

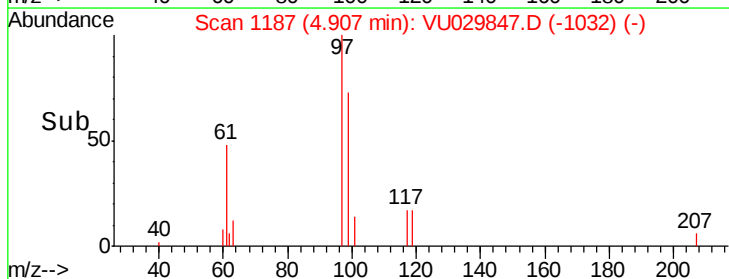
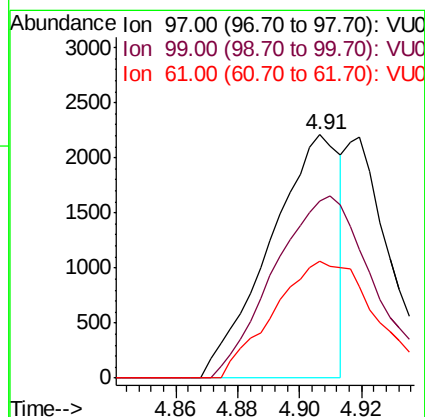
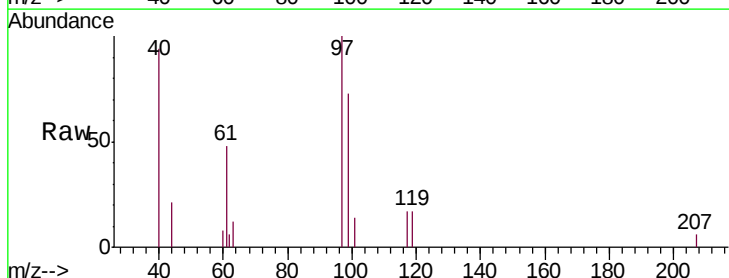
Tgt Ion: 97 Resp: 3474

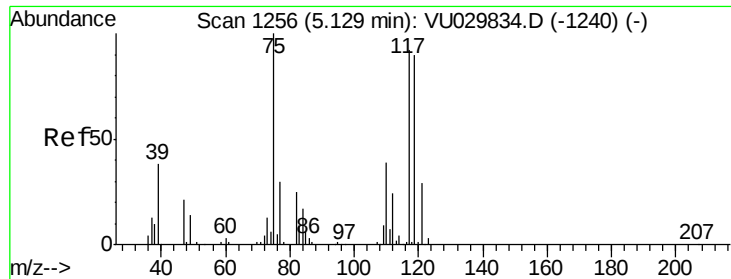
Ion Ratio Lower Upper

97 100

99 107.3 31.9 95.9#

61 68.7 20.4 61.3#





#29

1,1-Dichloropropene

Concen: 0.228 ug/l

RT: 5.13 min Scan# 1258

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

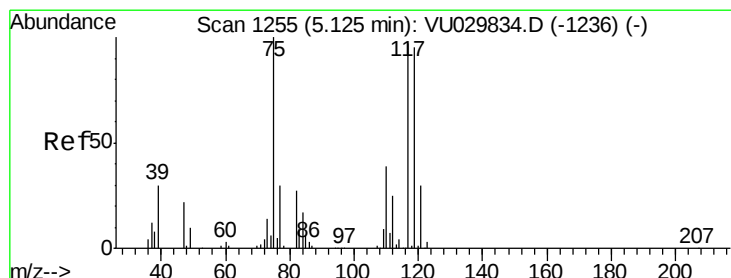
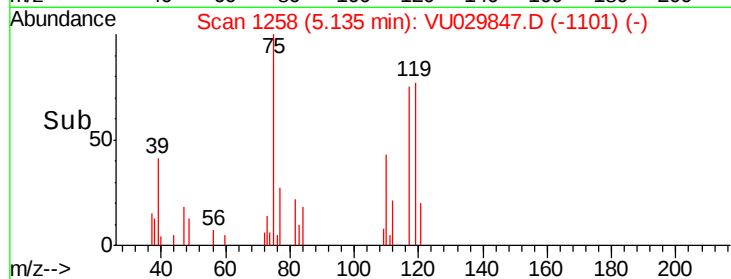
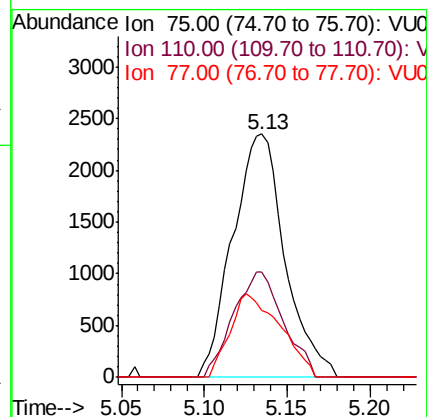
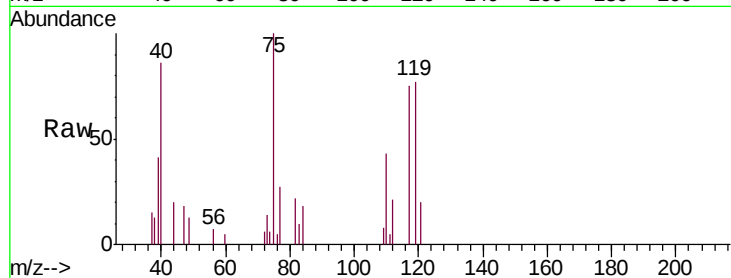
Tgt Ion: 75 Resp: 5144

Ion Ratio Lower Upper

75 100

110 41.1 19.1 57.5

77 33.0 23.9 35.9



#30

Carbon Tetrachloride

Concen: 0.213 ug/l

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

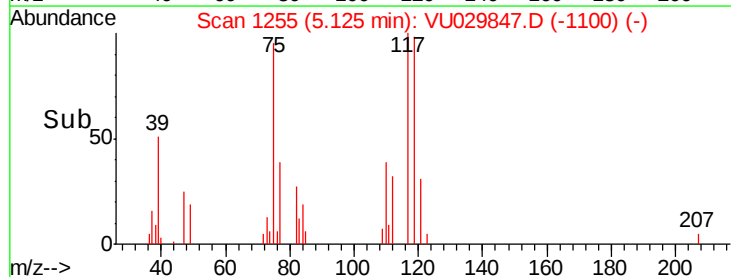
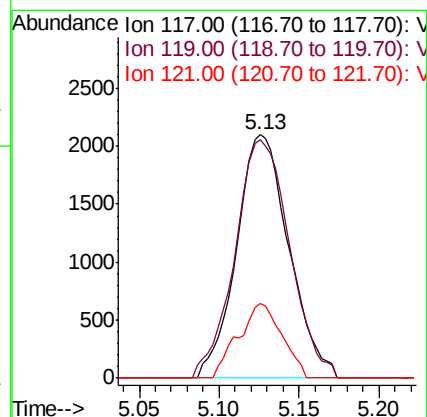
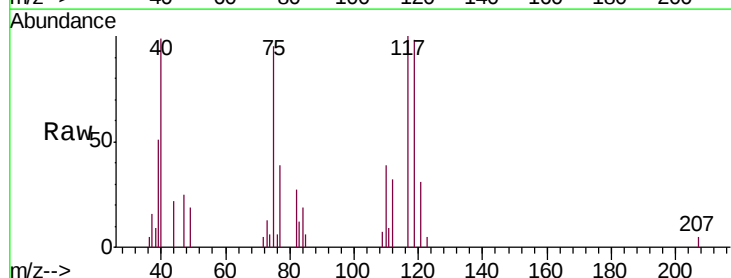
Tgt Ion: 117 Resp: 4709

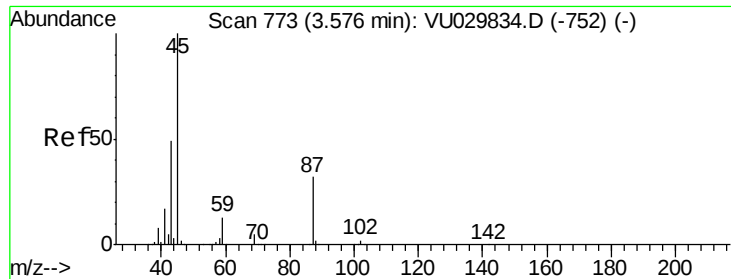
Ion Ratio Lower Upper

117 100

119 97.9 78.4 117.6

121 30.9 25.0 37.4





#31

Isopropyl Ether

Concen: 0.240 ug/l

RT: 3.57 min Scan# 772

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

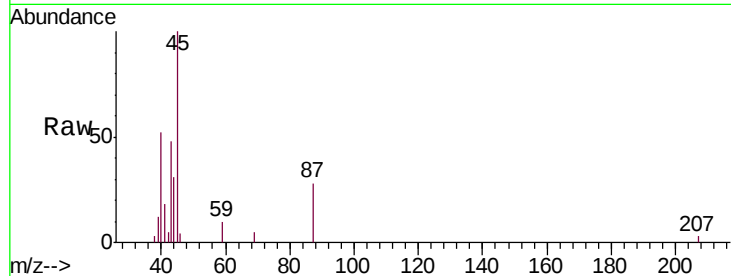
MDL04

Tgt Ion: 45 Resp: 9758

Ion Ratio Lower Upper

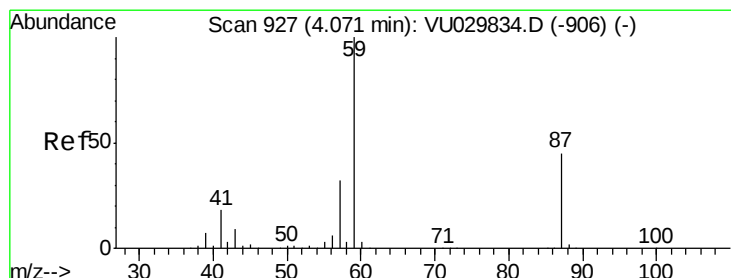
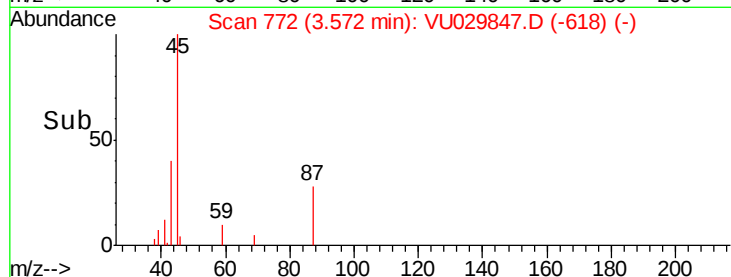
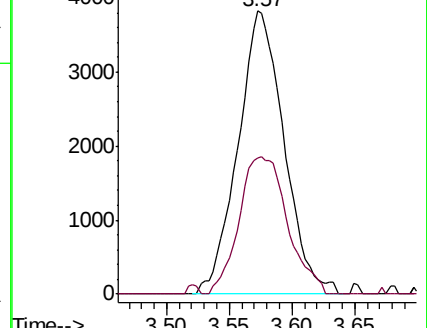
45 100

43 50.9 24.3 72.9



Abundance Ion 45.00 (44.70 to 45.70): VU029834.D (-752) (-)

Ion 43.00 (42.70 to 43.70): VU029834.D (-752) (-)



#32

Ethyl-t-butyl ether

Concen: 0.240 ug/l

RT: 4.07 min Scan# 926

Delta R.T. -0.00 min

Lab File: VU029847.D

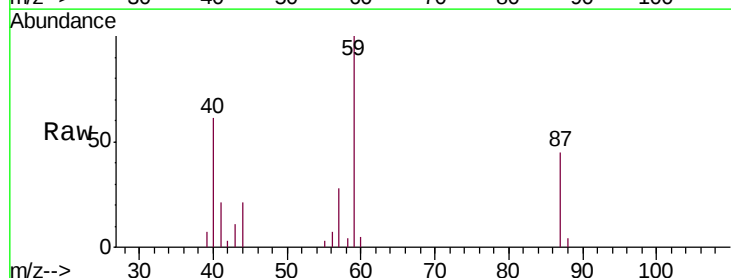
Acq: 07 Mar 2019 11:17

Tgt Ion: 59 Resp: 9504

Ion Ratio Lower Upper

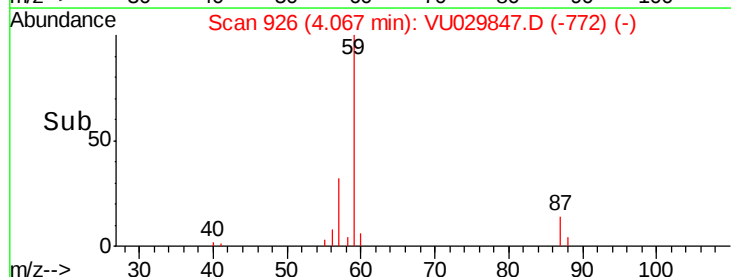
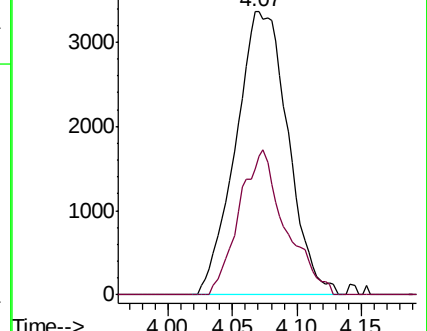
59 100

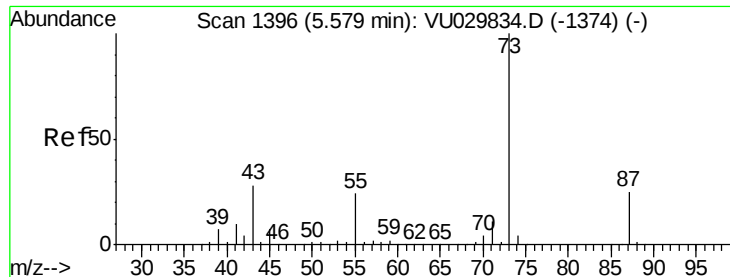
87 45.3 36.2 54.4



Abundance Ion 59.00 (58.70 to 59.70): VU029834.D (-906) (-)

Ion 87.00 (86.70 to 87.70): VU029834.D (-906) (-)

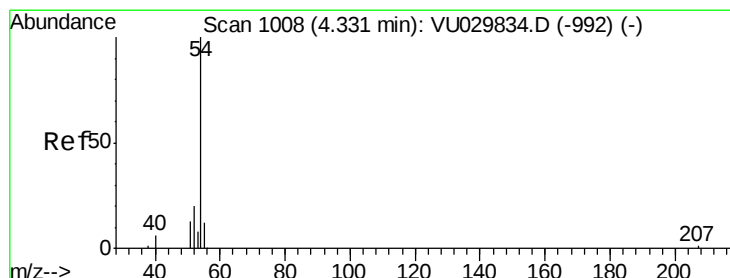
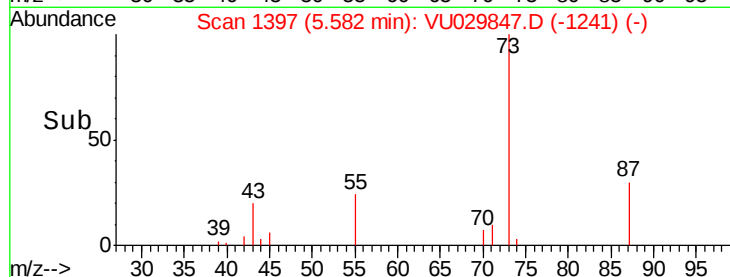
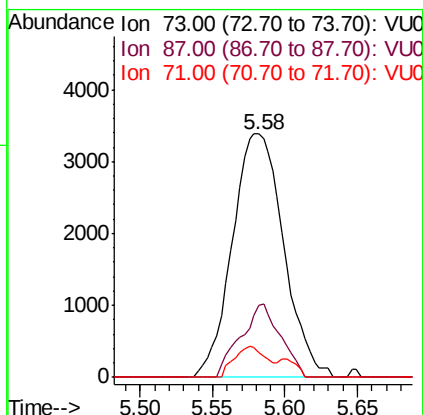
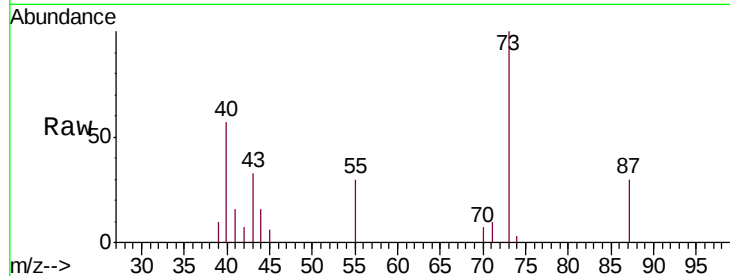




#33  
Tert-Amyl methyl ether  
Concen: 0.227 ug/l  
RT: 5.58 min Scan# 1397  
Delta R.T. 0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

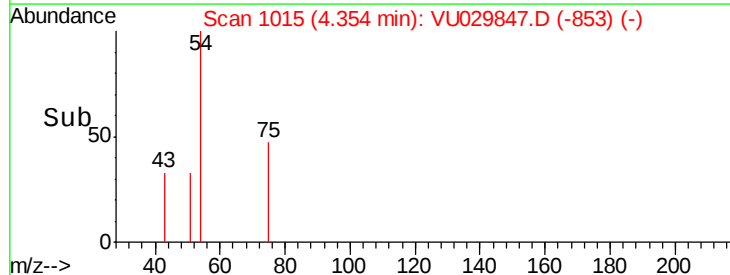
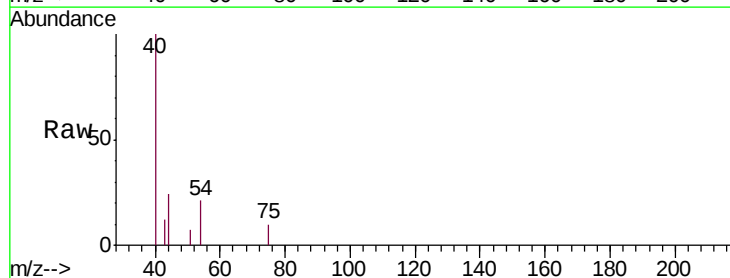
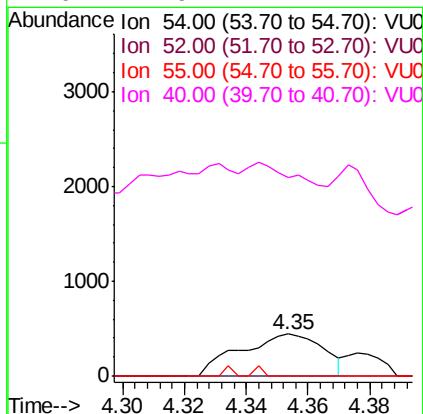
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

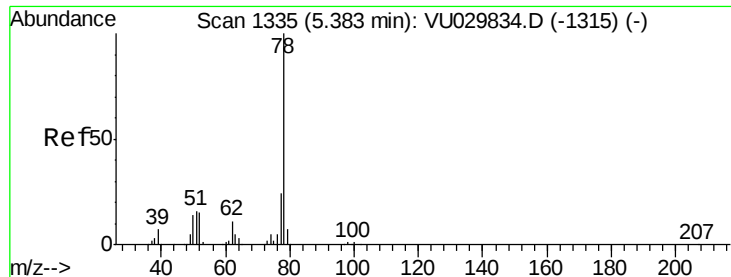
Tgt Ion: 73 Resp: 8301  
Ion Ratio Lower Upper  
73 100  
87 23.3 19.7 29.5  
71 5.0 9.4 14.2#



#34  
Propionitrile  
Concen: 0.724 ug/l  
RT: 4.35 min Scan# 1015  
Delta R.T. 0.02 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Tgt Ion: 54 Resp: 826  
Ion Ratio Lower Upper  
54 100  
52 0.0 16.1 24.1#  
55 0.0 11.2 16.8#  
40 42.9 4.7 7.1#





#35

Benzene

Concen: 0.243 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

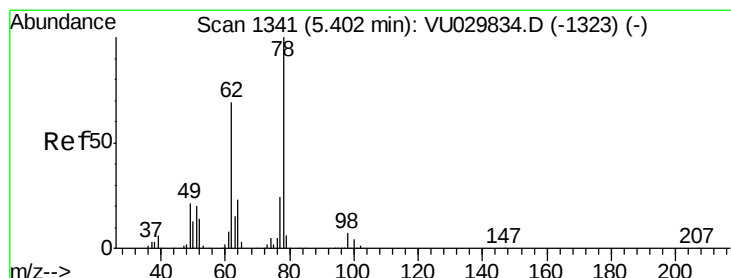
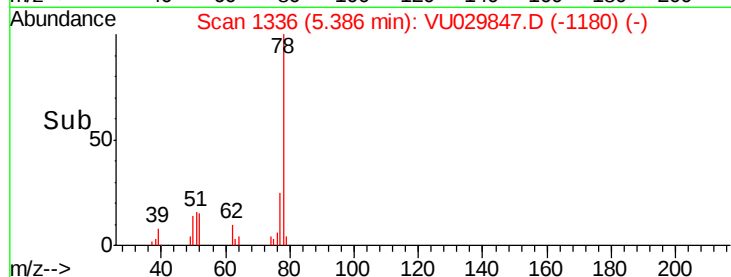
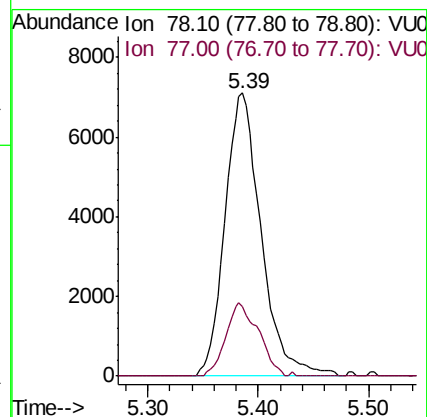
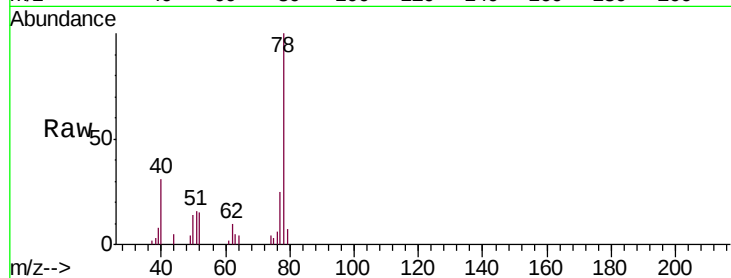
MDL04

Tgt Ion: 78 Resp: 16137

Ion Ratio Lower Upper

78 100

77 24.7 19.2 28.8



#36

1,2-Dichloroethane

Concen: 0.233 ug/l

RT: 5.41 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VU029847.D

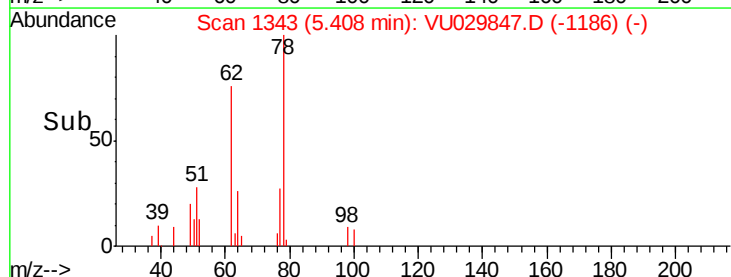
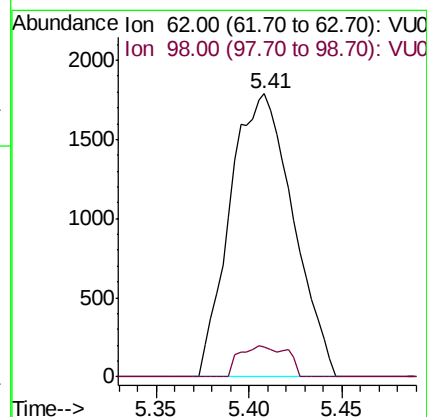
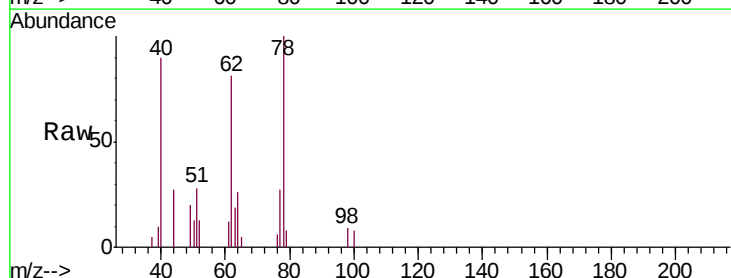
Acq: 07 Mar 2019 11:17

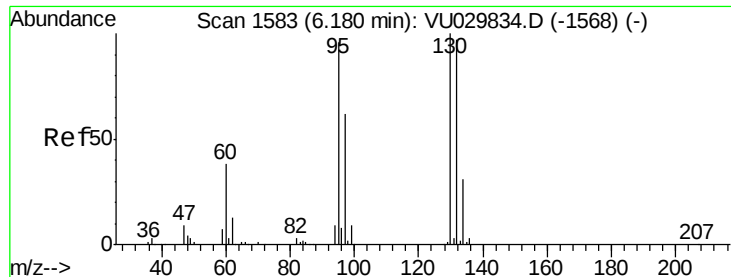
Tgt Ion: 62 Resp: 4229

Ion Ratio Lower Upper

62 100

98 8.3 8.2 12.2





#37

Trichloroethene

Concen: 0.228 ug/l

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

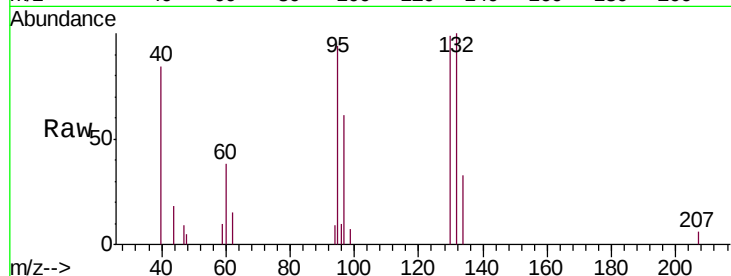
MDL04

Tgt Ion:130 Resp: 4409

Ion Ratio Lower Upper

130 100

95 95.3 76.6 114.8



Abundance Ion 129.90 (129.60 to 130.60): VU029834.D (-1568) (-)

Ion 94.90 (94.60 to 95.60): VU029834.D (-1568) (-)

6.19

2500

2000

1500

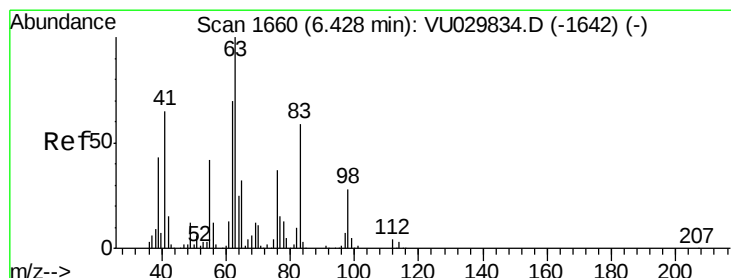
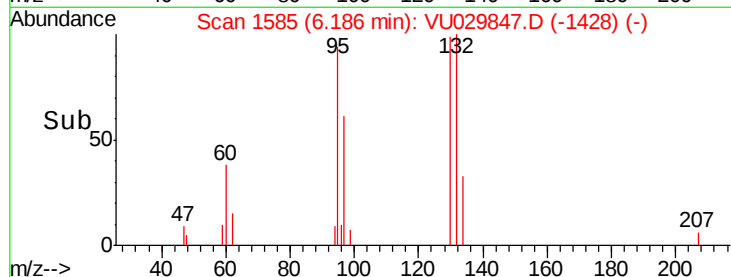
1000

500

0

6.15 6.20 6.25

Time-->



#38

1,2-Dichloropropane

Concen: 0.220 ug/l

RT: 6.43 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VU029847.D

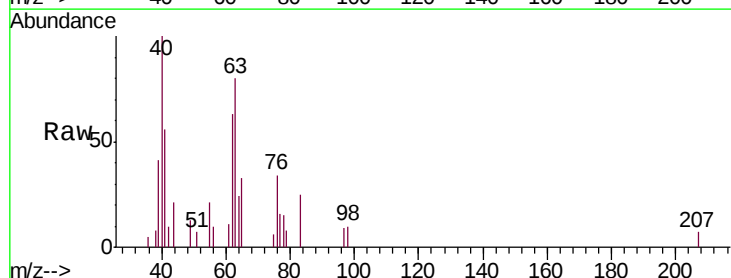
Acq: 07 Mar 2019 11:17

Tgt Ion: 63 Resp: 3697

Ion Ratio Lower Upper

63 100

65 41.8 25.4 38.2#



Abundance Ion 63.00 (62.70 to 63.70): VU029834.D (-1642) (-)

Ion 65.00 (64.70 to 65.70): VU029834.D (-1642) (-)

6.43

1500

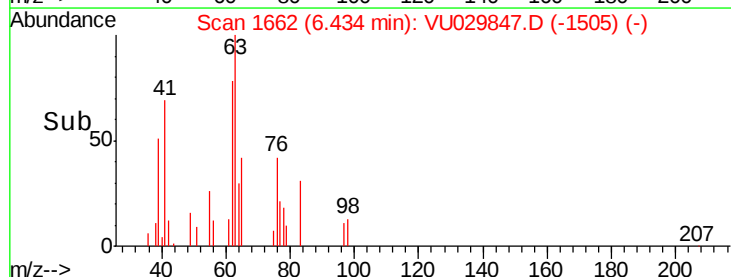
1000

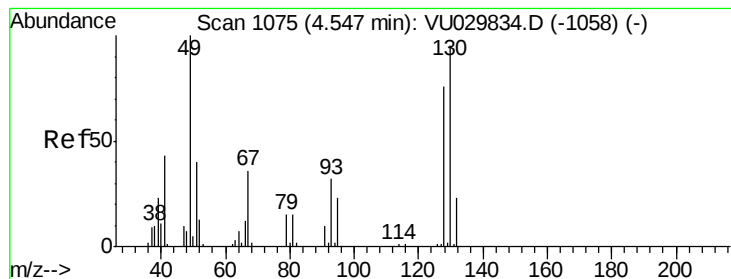
500

0

6.40 6.45 6.50

Time-->





#39

Methacrylonitrile

Concen: 0.137 ug/l

RT: 4.55 min Scan# 1076

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

Tgt Ion: 41 Resp: 656

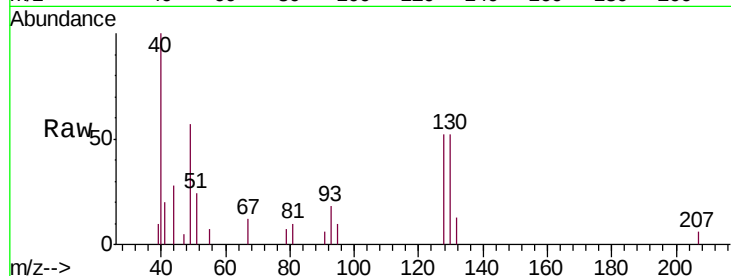
Ion Ratio Lower Upper

41 100

67 100.9 68.4 102.6

39 30.2 42.6 63.8#

52 15.2 26.2 39.4#



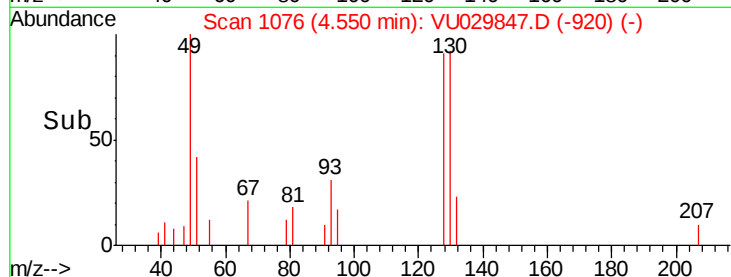
Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

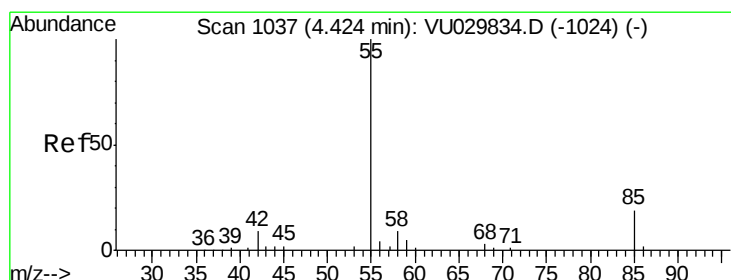
Ion 52.00 (51.70 to 52.70): VU0

Time-->



Abundance

Time-->



#40

Methyl acrylate

Concen: 0.106 ug/l

RT: 4.44 min Scan# 1042

Delta R.T. 0.02 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Tgt Ion: 55 Resp: 800

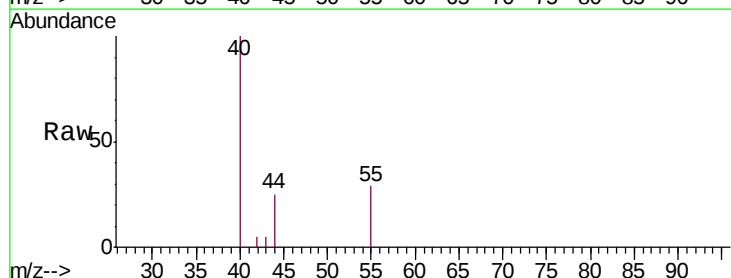
Ion Ratio Lower Upper

55 100

85 0.0 15.2 22.8#

58 0.0 7.6 11.4#

42 18.6 7.5 11.3#



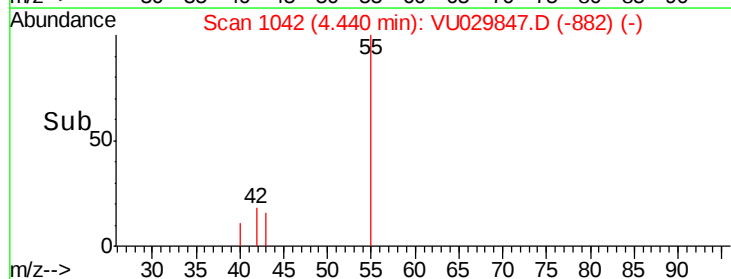
Abundance Ion 55.00 (54.70 to 55.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

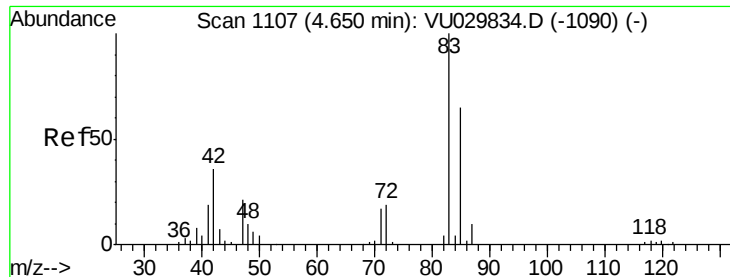
Ion 42.00 (41.70 to 42.70): VU0

Time-->



Abundance

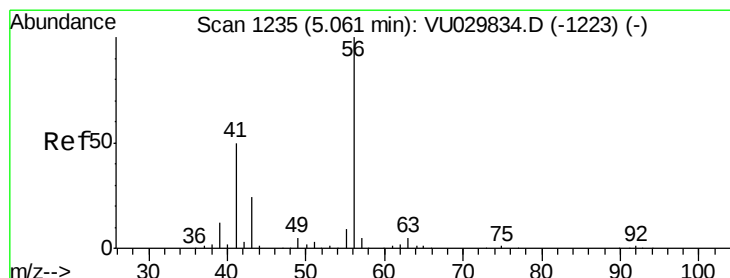
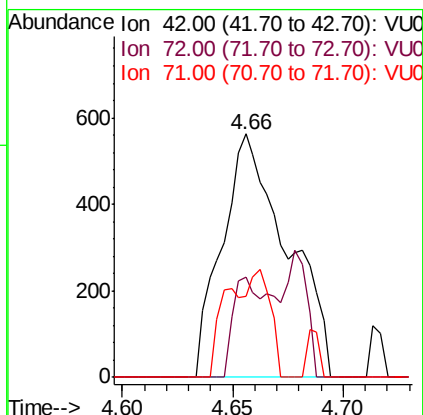
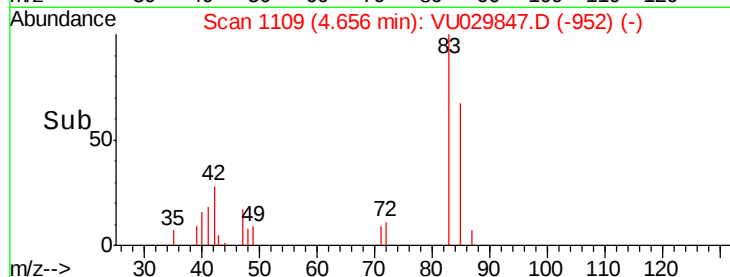
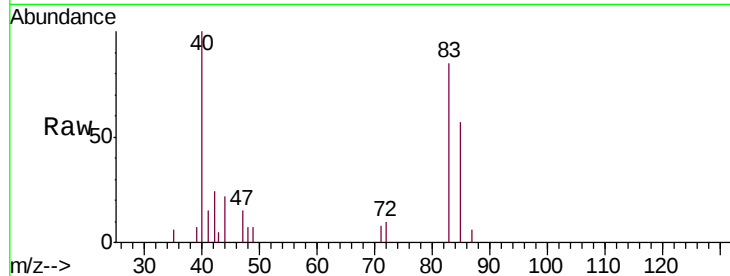
Time-->



#41  
Tetrahydrofuran  
Concen: 0.459 ug/l  
RT: 4.66 min Scan# 1109  
Delta R.T. 0.01 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

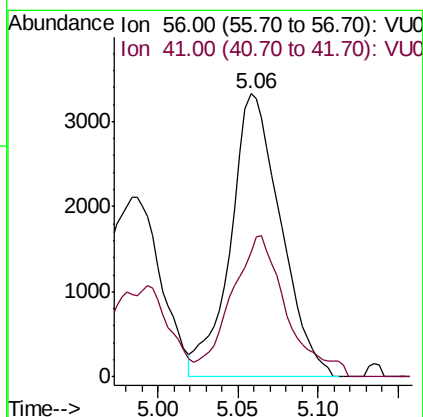
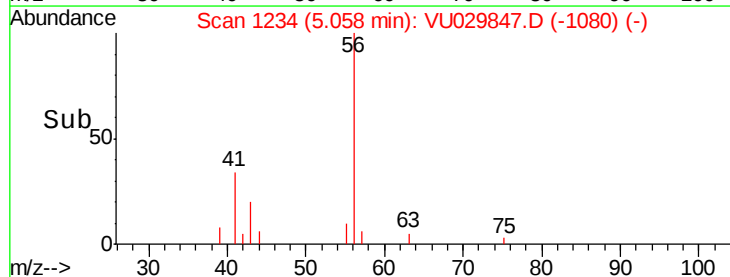
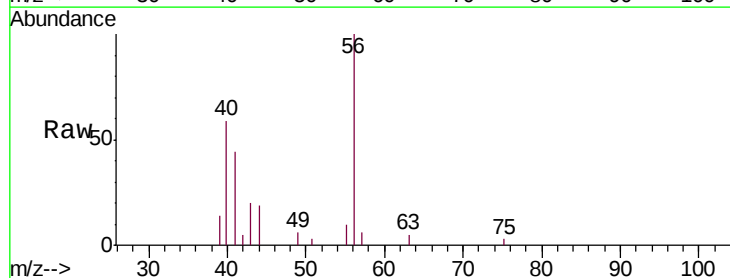
Instrument :  
MSVOA\_U  
ClientSampled :  
MDL04

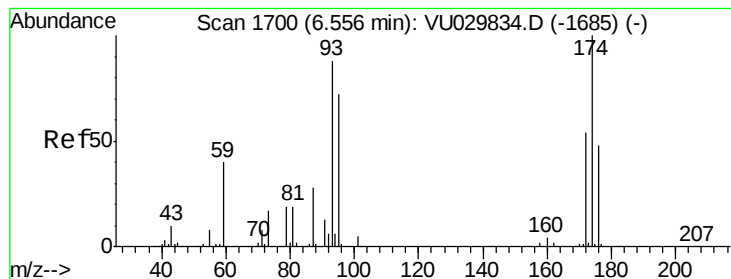
Tgt Ion: 42 Resp: 1151  
Ion Ratio Lower Upper  
42 100  
72 22.7 43.6 65.4#  
71 13.8 37.5 56.3#



#42  
1-Chlorobutane  
Concen: 0.248 ug/l  
RT: 5.06 min Scan# 1234  
Delta R.T. -0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Tgt Ion: 56 Resp: 7138  
Ion Ratio Lower Upper  
56 100  
41 55.3 25.0 75.0





#43

Dibromomethane

Concen: 0.237 ug/l

RT: 6.56 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

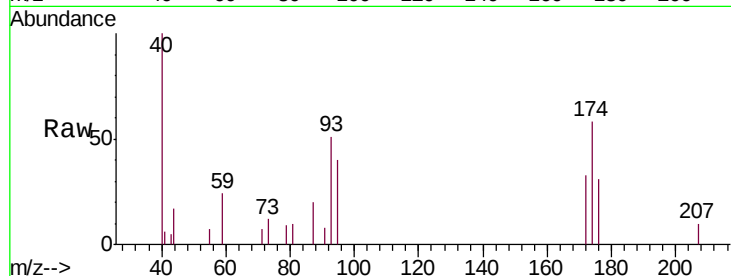
Tgt Ion: 93 Resp: 2062

Ion Ratio Lower Upper

93 100

95 85.2 67.0 100.6

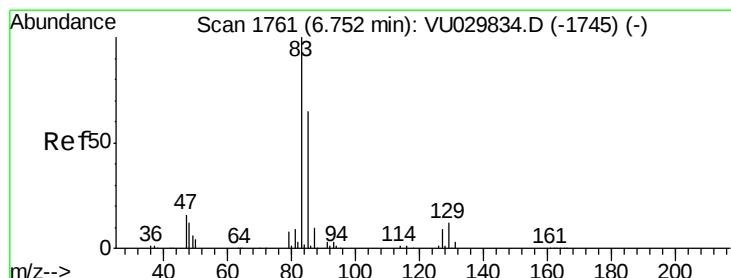
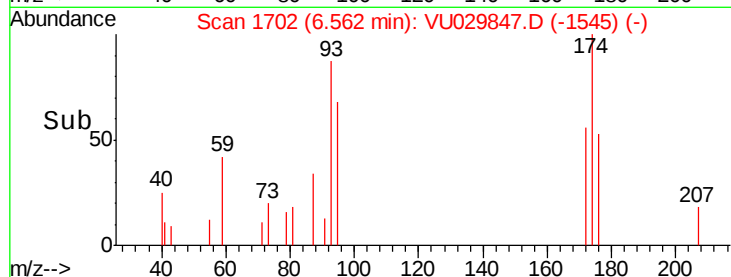
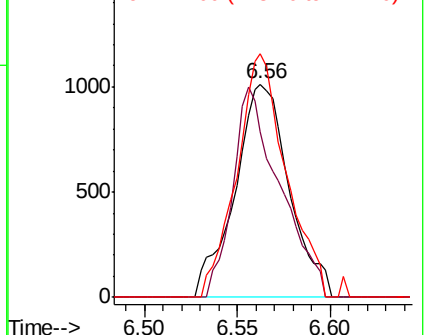
174 103.6 91.4 137.2



Abundance Ion 93.00 (92.70 to 93.70): VU029847.D (-1685) (-)

Ion 95.00 (94.70 to 95.70): VU029847.D (-1685) (-)

Ion 174.00 (173.70 to 174.70): VU029847.D (-1685) (-)



#44

Bromodichloromethane

Concen: 0.221 ug/l

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

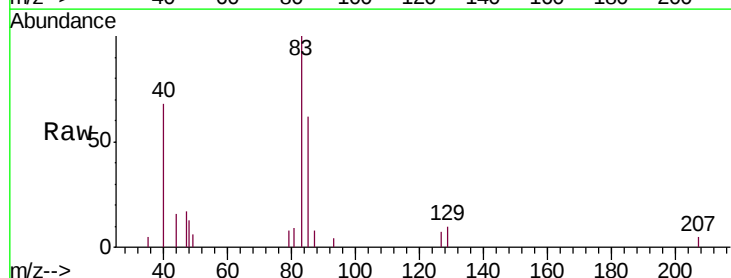
Tgt Ion: 83 Resp: 4714

Ion Ratio Lower Upper

83 100

85 61.7 51.7 77.5

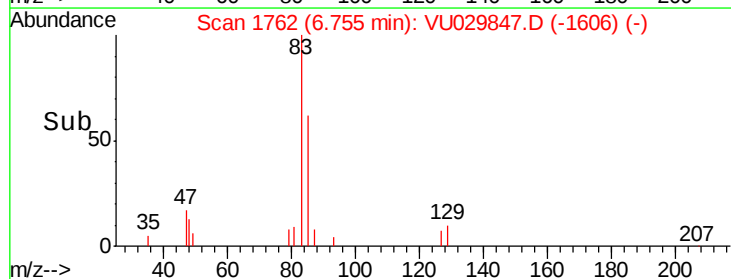
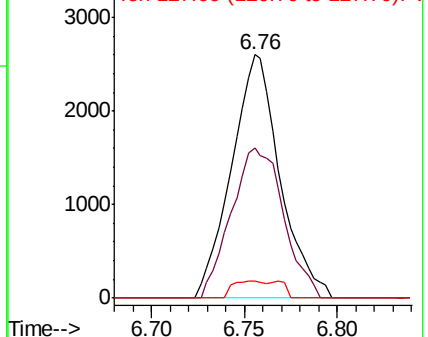
127 7.1 7.4 11.2#

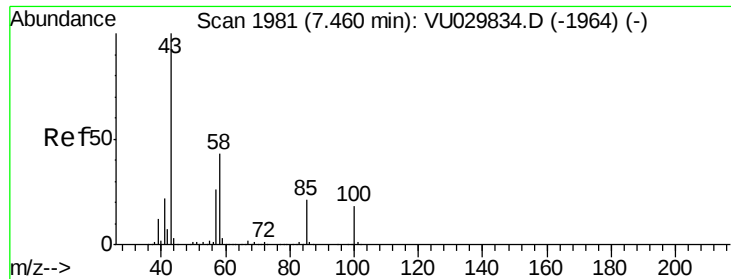


Abundance Ion 83.00 (82.70 to 83.70): VU029847.D (-1745) (-)

Ion 85.00 (84.70 to 85.70): VU029847.D (-1745) (-)

Ion 127.00 (126.70 to 127.70): VU029847.D (-1745) (-)

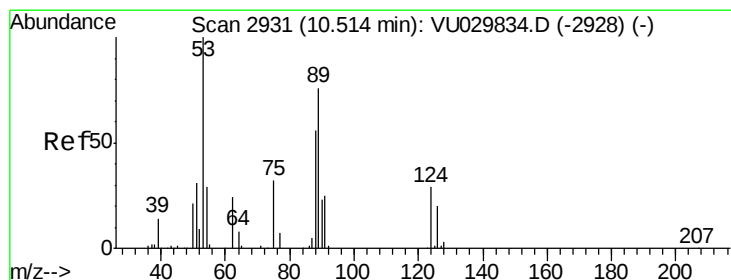
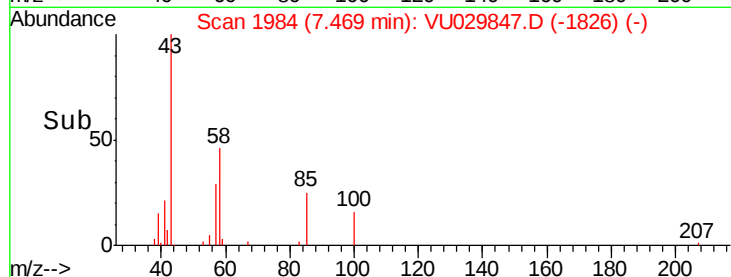
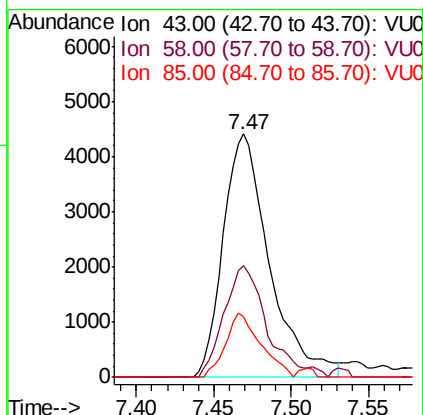
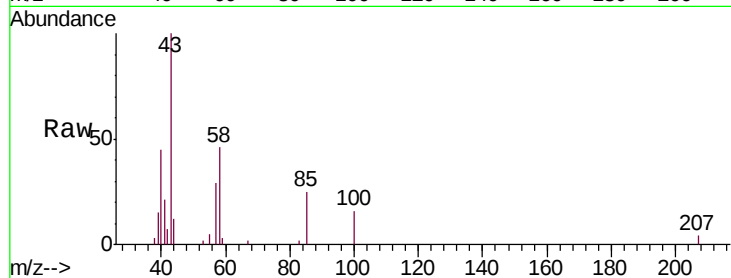




#45  
4-Methyl-2-Pentanone  
Concen: 1.008 ug/l  
RT: 7.47 min Scan# 1984  
Delta R.T. 0.01 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

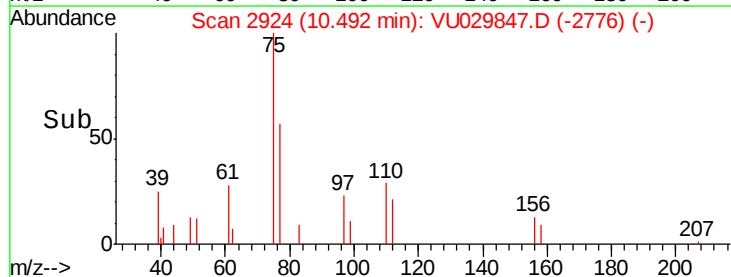
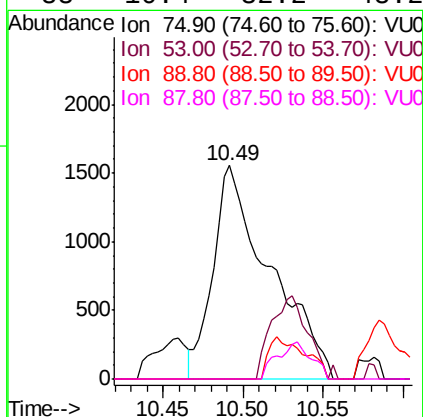
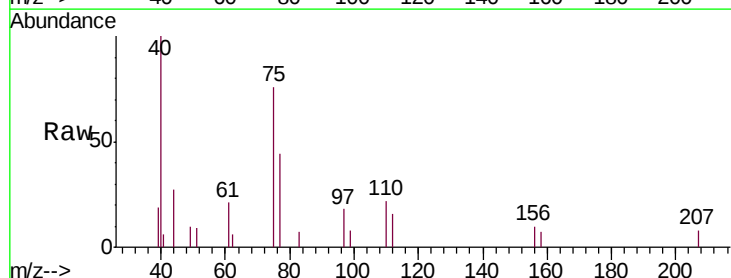
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

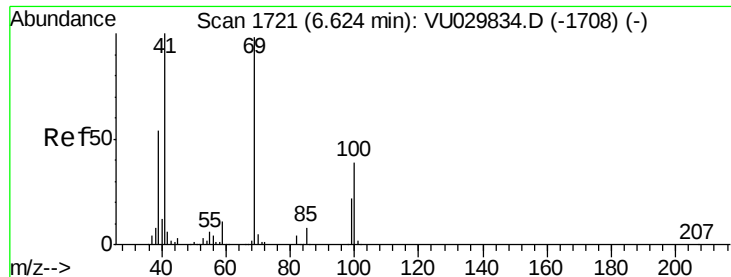
Tgt Ion: 43 Resp: 9146  
Ion Ratio Lower Upper  
43 100  
58 42.6 21.6 65.0  
85 20.0 16.5 24.7



#46  
t-1,4-Dichloro-2-butene  
Concen: 1.002 ug/l  
RT: 10.49 min Scan# 2924  
Delta R.T. -0.02 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Tgt Ion: 75 Resp: 3802  
Ion Ratio Lower Upper  
75 100  
53 25.6 59.2 88.8#  
89 12.6 44.9 67.3#  
88 10.4 32.2 48.2#

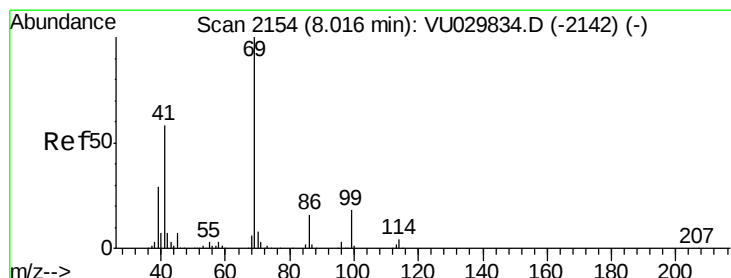
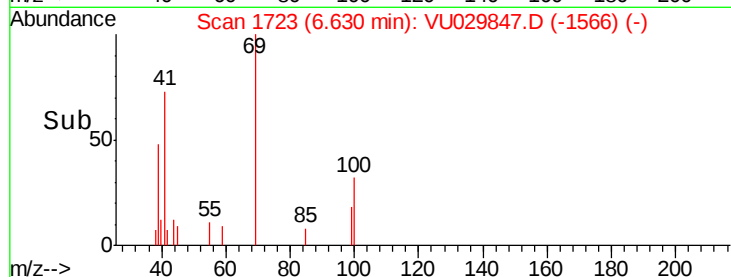
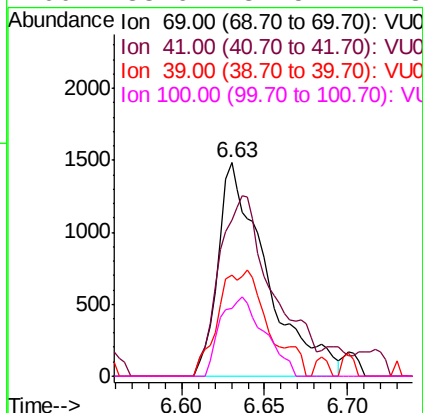
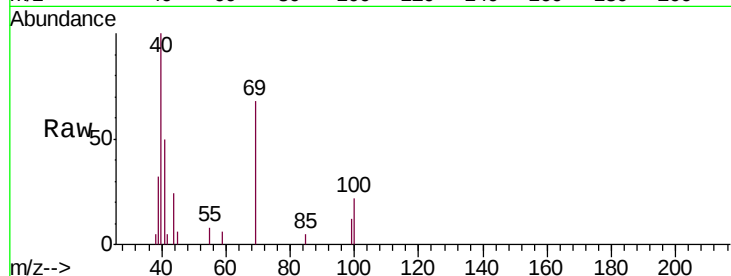




#47  
Methyl methacrylate  
Concen: 0.402 ug/l  
RT: 6.63 min Scan# 1723  
Delta R.T. 0.01 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

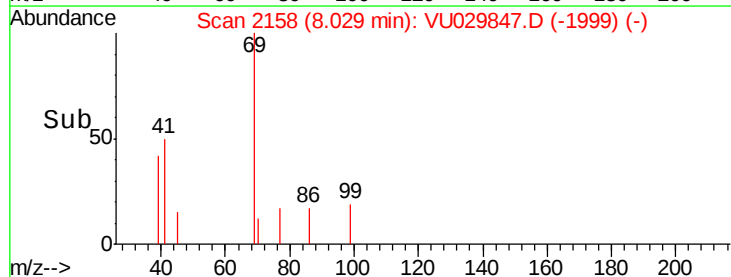
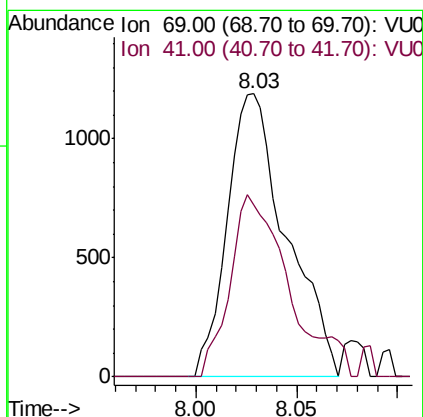
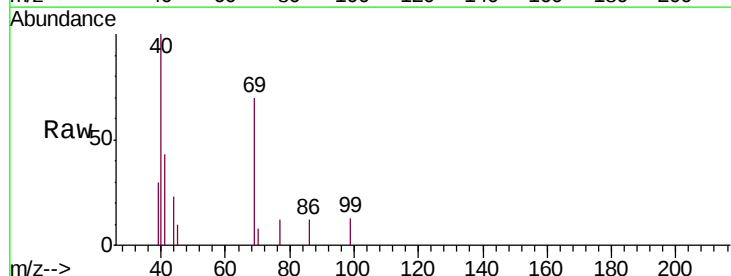
Instrument :  
MSVOA\_U  
ClientSampled :  
MDL04

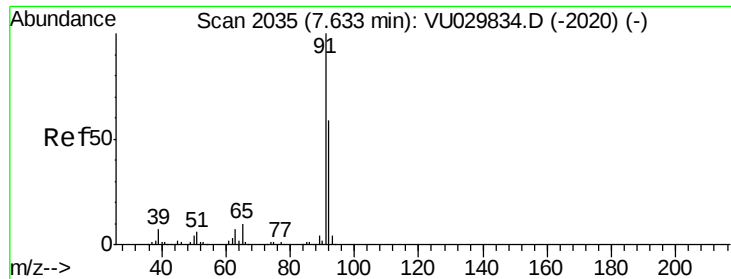
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 3001  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 95.5  | 0.0   | 201.0 |
| 39       | 51.3  | 43.3  | 64.9  |
| 100      | 33.6  | 31.5  | 47.3  |



#48  
Ethyl methacrylate  
Concen: 0.170 ug/l  
RT: 8.03 min Scan# 2158  
Delta R.T. 0.01 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 2431  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 64.1  | 29.0  | 87.1  |





#49

Toluene

Concen: 0.208 ug/l

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

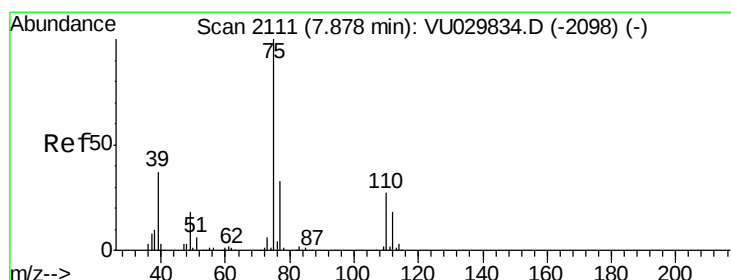
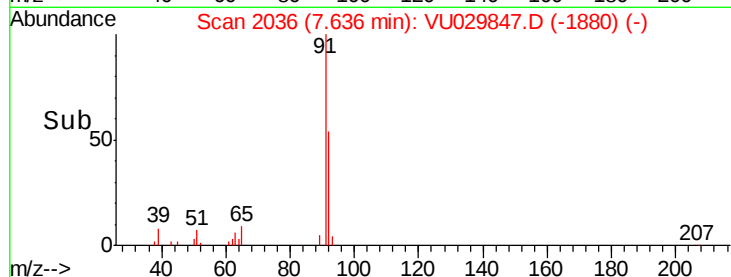
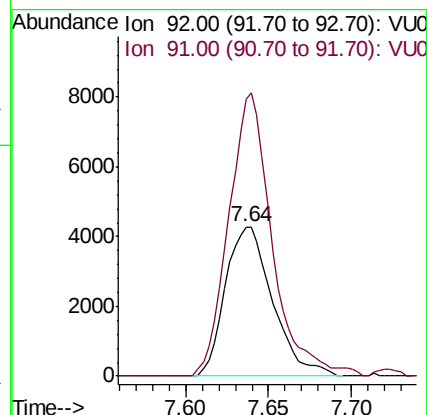
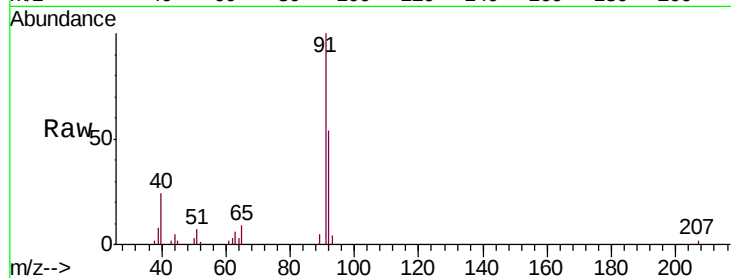
MDL04

Tgt Ion: 92 Resp: 8482

Ion Ratio Lower Upper

92 100

91 174.6 137.8 206.8



#50

t-1,3-Dichloropropene

Concen: 0.203 ug/l

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VU029847.D

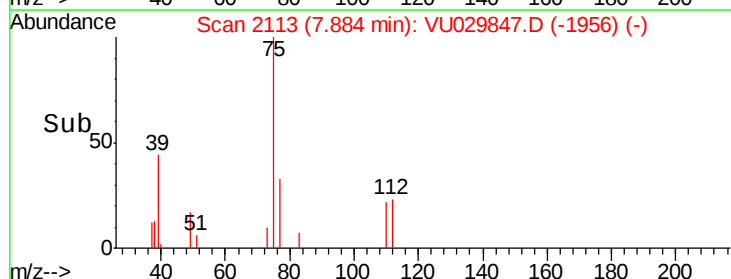
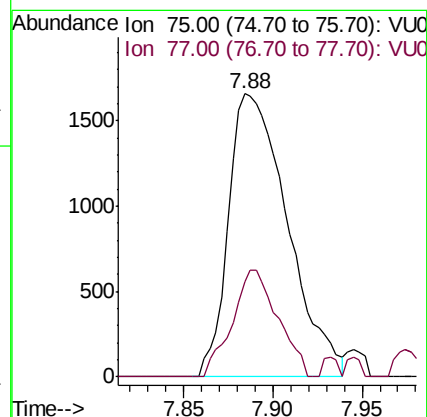
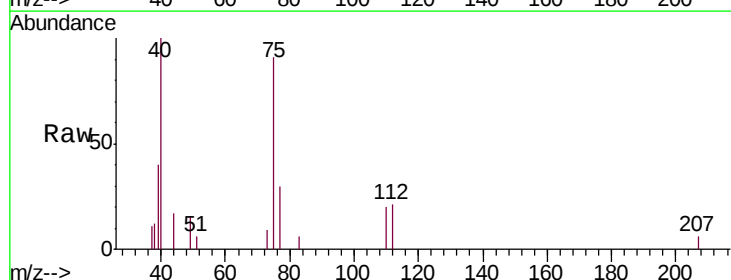
Acq: 07 Mar 2019 11:17

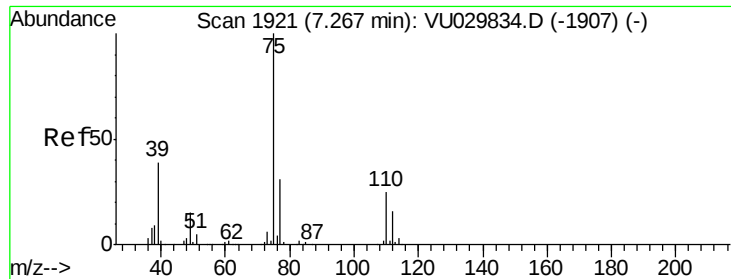
Tgt Ion: 75 Resp: 3812

Ion Ratio Lower Upper

75 100

77 33.4 26.4 39.6



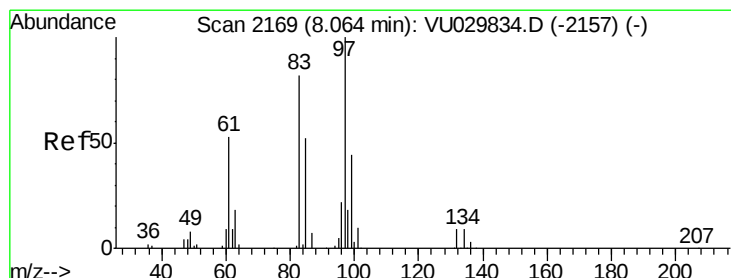
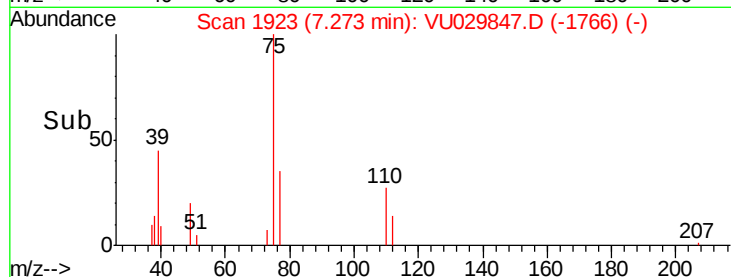
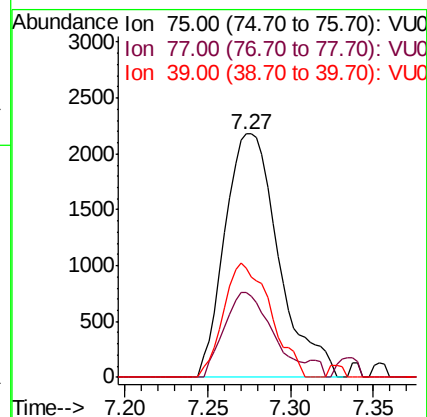
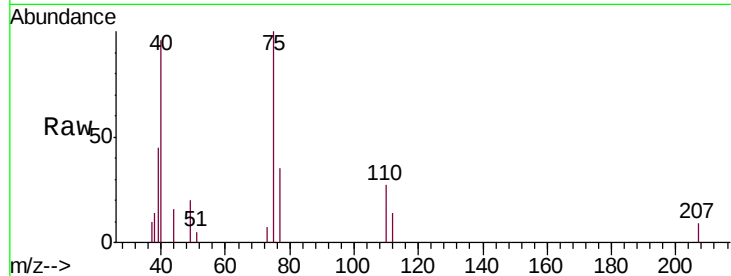


#51

cis-1,3-Dichloropropene  
Concen: 0.213 ug/l  
RT: 7.27 min Scan# 1923  
Delta R.T. 0.01 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

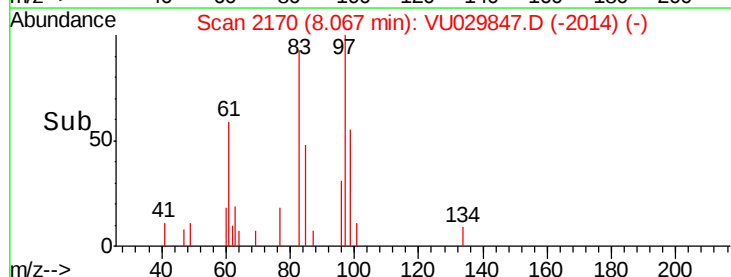
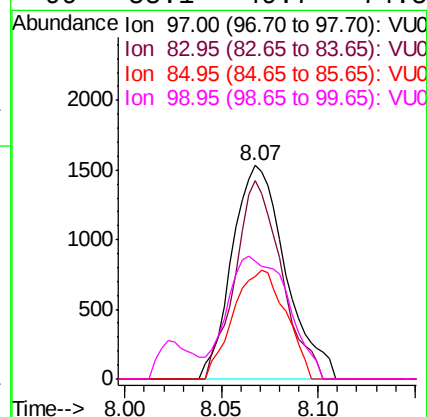
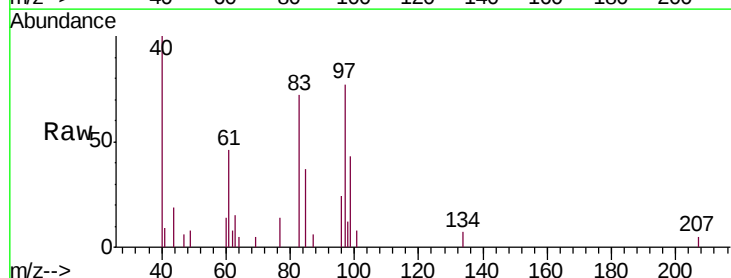
Tgt Ion: 75 Resp: 4929  
Ion Ratio Lower Upper  
75 100  
77 34.7 24.9 37.3  
39 45.1 30.8 46.2

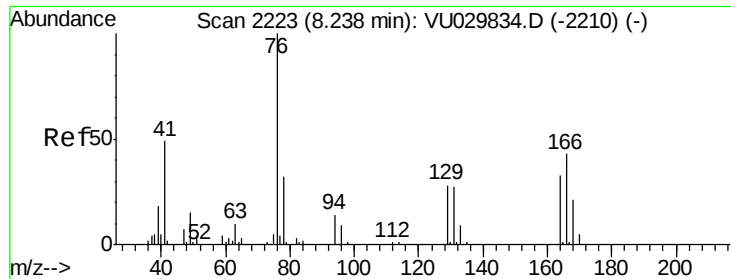


#52

1,1,2-Trichloroethane  
Concen: 0.229 ug/l  
RT: 8.07 min Scan# 2170  
Delta R.T. 0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Tgt Ion: 97 Resp: 2948  
Ion Ratio Lower Upper  
97 100  
83 92.6 65.9 98.9  
85 48.0 43.0 64.6  
99 55.1 49.7 74.5

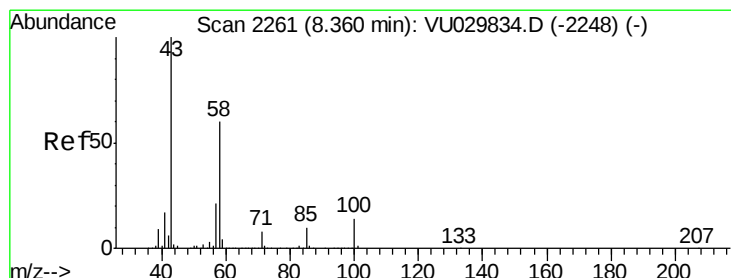
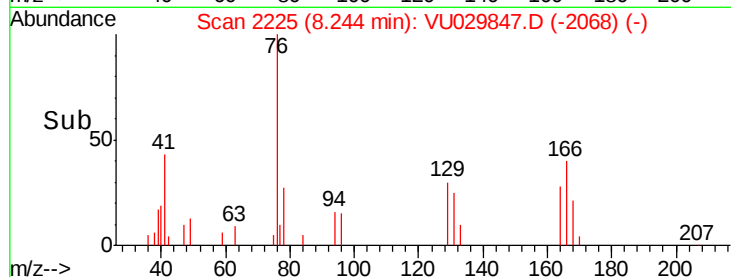
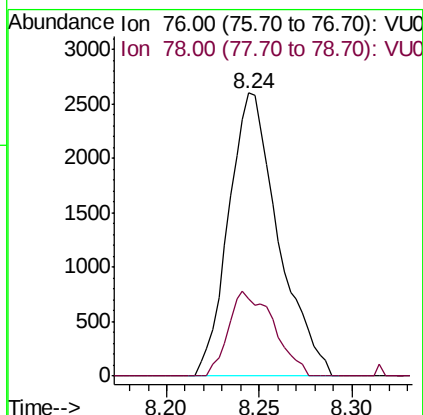
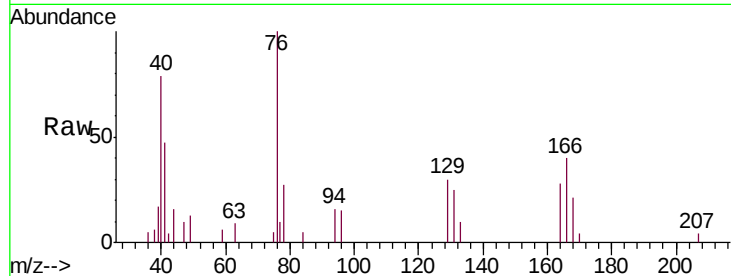




#53  
 1,3-Dichloropropane  
 Concen: 0.229 ug/l  
 RT: 8.24 min Scan# 2225  
 Delta R.T. 0.01 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

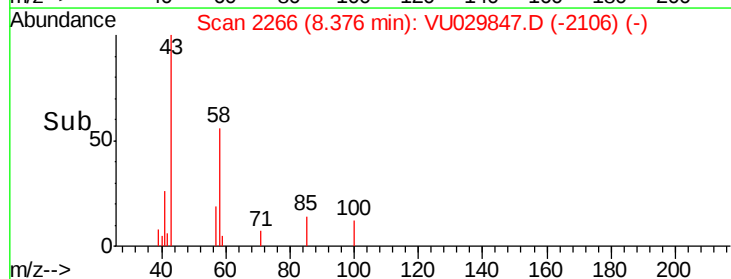
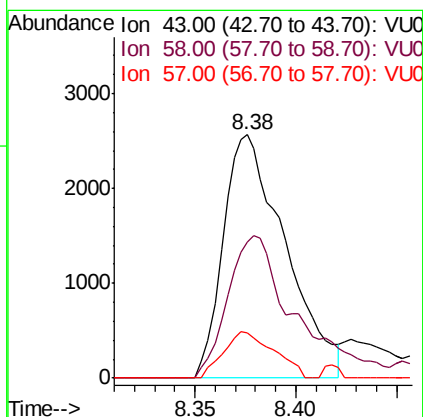
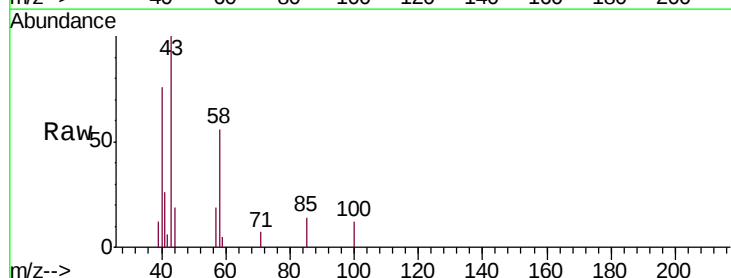
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL04

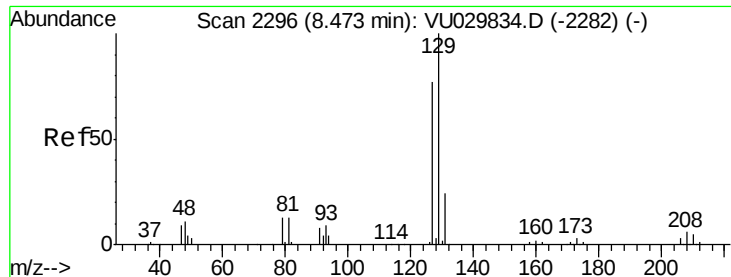
Tgt Ion: 76 Resp: 4839  
 Ion Ratio Lower Upper  
 76 100  
 78 27.3 25.7 38.5



#54  
 2-Hexanone  
 Concen: 0.873 ug/l  
 RT: 8.38 min Scan# 2266  
 Delta R.T. 0.02 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion: 43 Resp: 5506  
 Ion Ratio Lower Upper  
 43 100  
 58 64.0 39.6 79.6  
 57 15.6 0.5 40.5





#55

Dibromochloromethane

Concen: 0.211 ug/l

RT: 8.47 min Scan# 2296

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

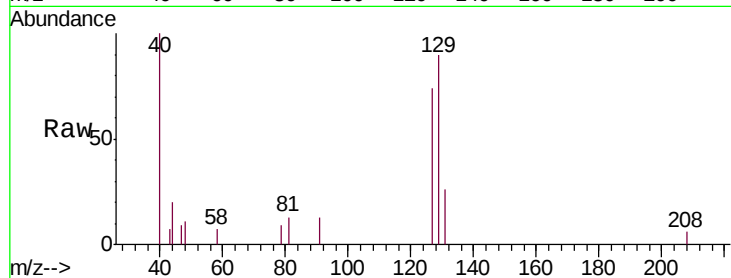
MDL04

Tgt Ion:129 Resp: 3229

Ion Ratio Lower Upper

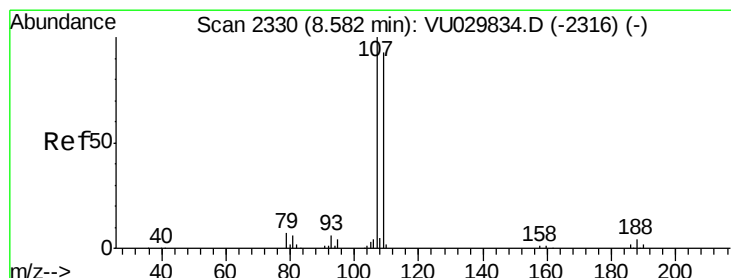
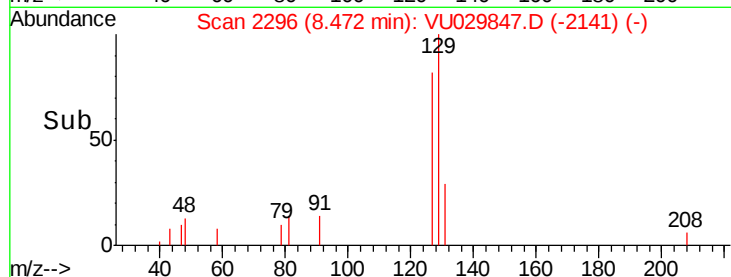
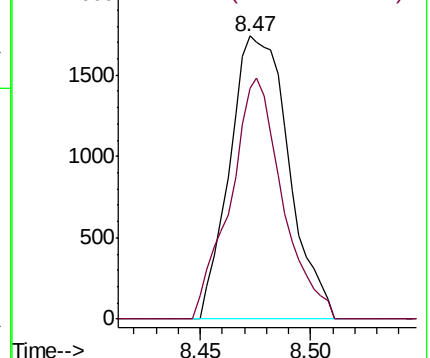
129 100

127 75.6 61.6 92.4



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#56

1,2-Dibromoethane

Concen: 0.219 ug/l

RT: 8.58 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU029847.D

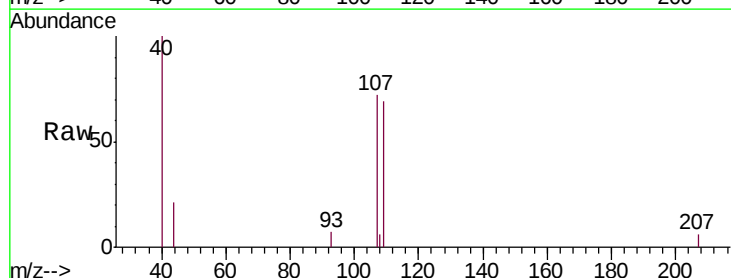
Acq: 07 Mar 2019 11:17

Tgt Ion:107 Resp: 2670

Ion Ratio Lower Upper

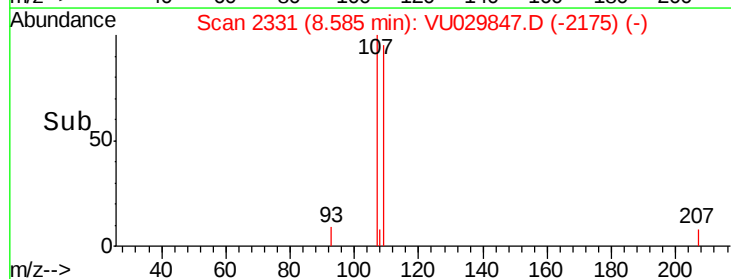
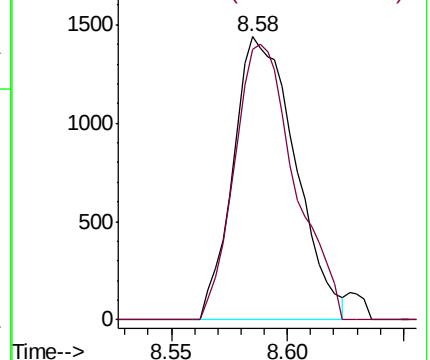
107 100

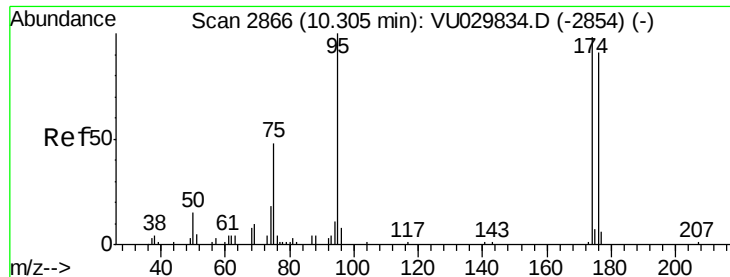
109 95.0 0.0 188.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

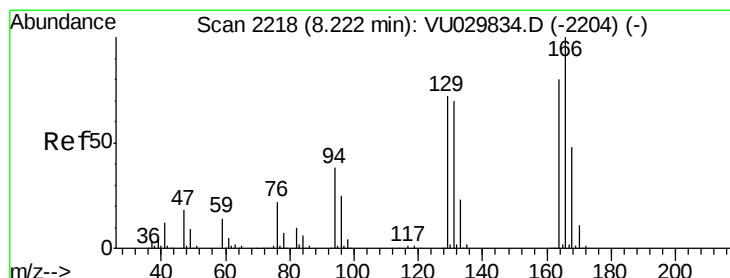
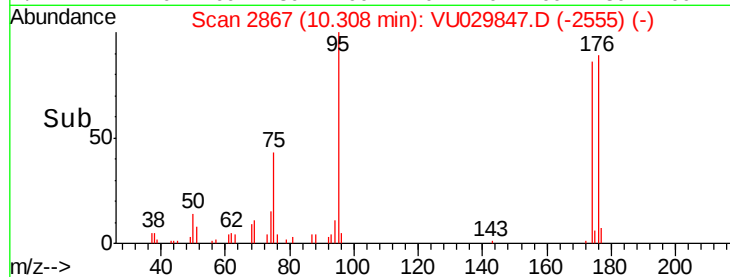
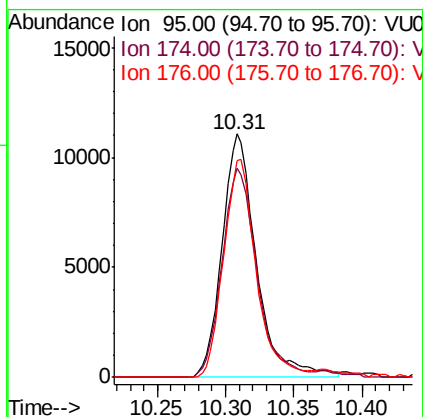
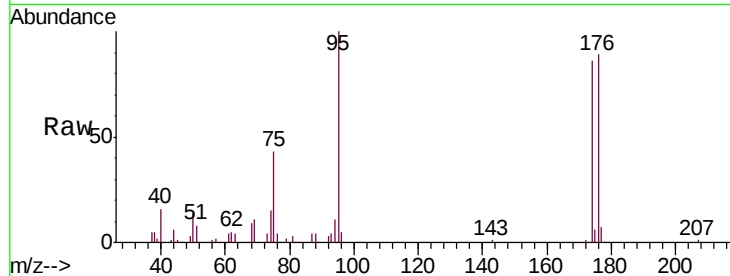




#57  
4-Bromofluorobenzene  
Concen: 0.219 ug/l  
RT: 10.31 min Scan# 2867  
Delta R.T. 0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

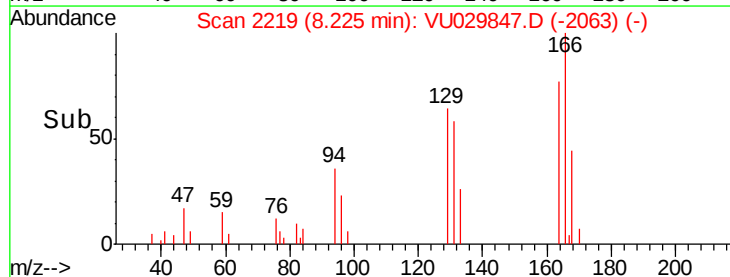
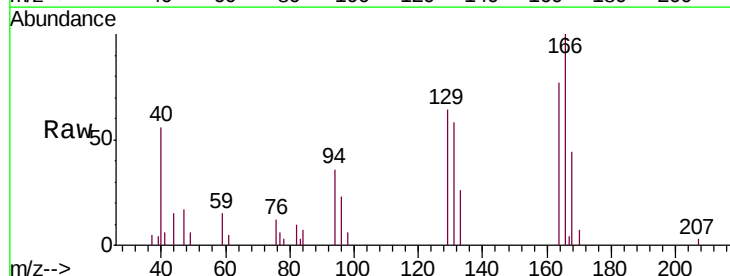
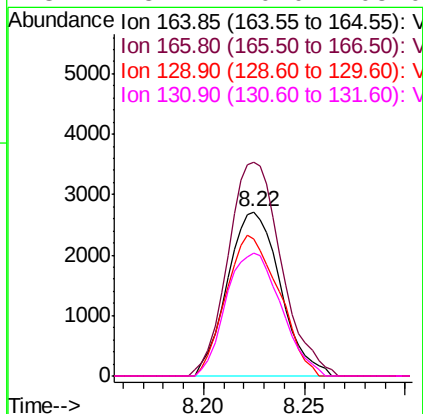
Instrument :  
MSVOA\_U  
ClientSampled :  
MDL04

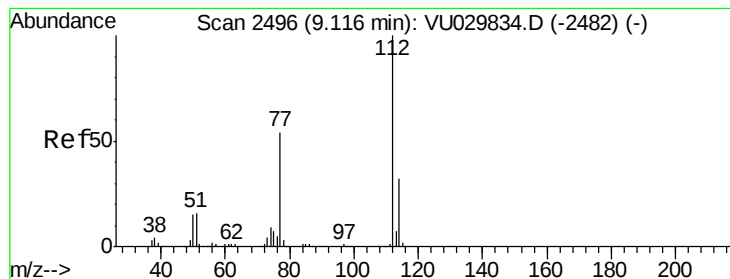
Tgt Ion: 95 Resp: 19363  
Ion Ratio Lower Upper  
95 100  
174 87.2 76.5 114.7  
176 85.1 74.2 111.2



#58  
Tetrachloroethene  
Concen: 0.251 ug/l  
RT: 8.22 min Scan# 2219  
Delta R.T. 0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Tgt Ion: 164 Resp: 4970  
Ion Ratio Lower Upper  
164 100  
166 130.1 100.5 150.7  
129 83.3 72.3 108.5  
131 75.2 70.0 105.0





#59

Chlorobenzene

Concen: 0.220 ug/l

RT: 9.12 min Scan# 2498

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

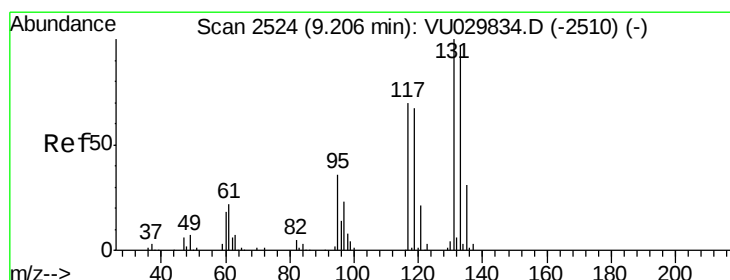
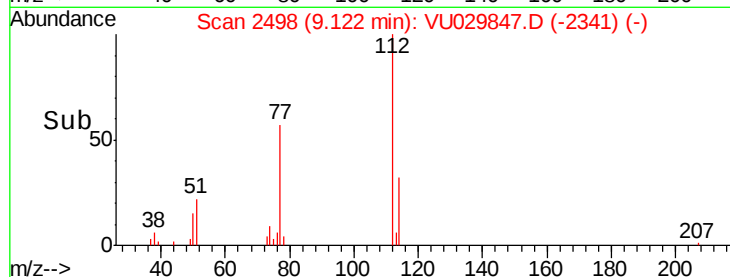
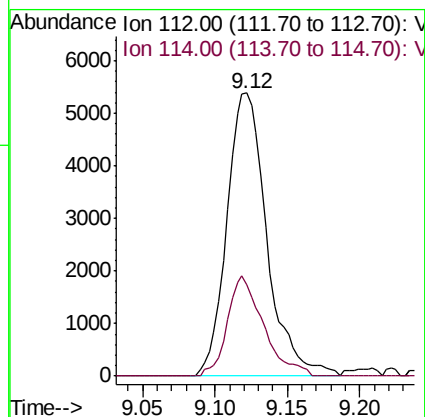
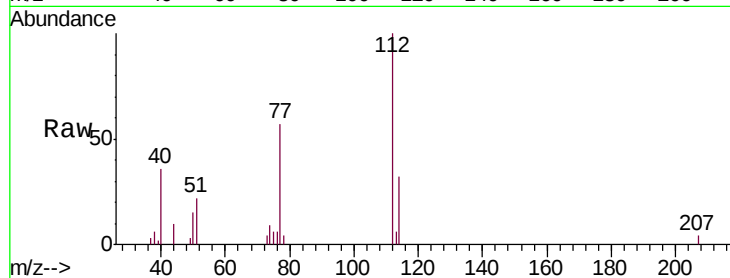
MDL04

Tgt Ion:112 Resp: 10292

Ion Ratio Lower Upper

112 100

114 32.3 25.4 38.2



#60

1,1,1,2-Tetrachloroethane

Concen: 0.229 ug/l

RT: 9.21 min Scan# 2524

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

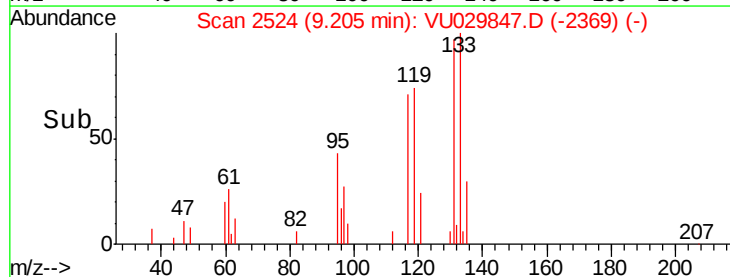
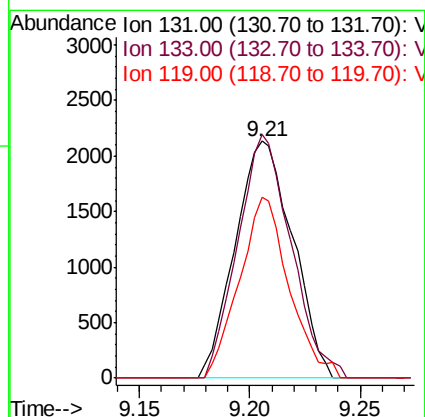
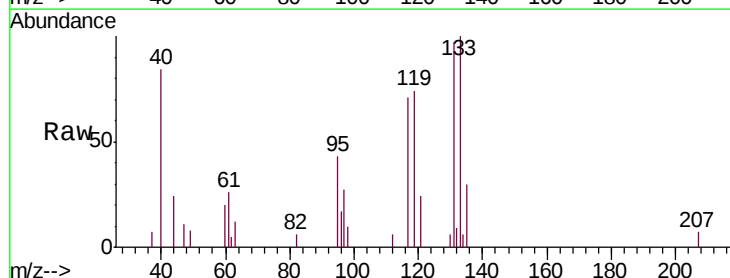
Tgt Ion:131 Resp: 3846

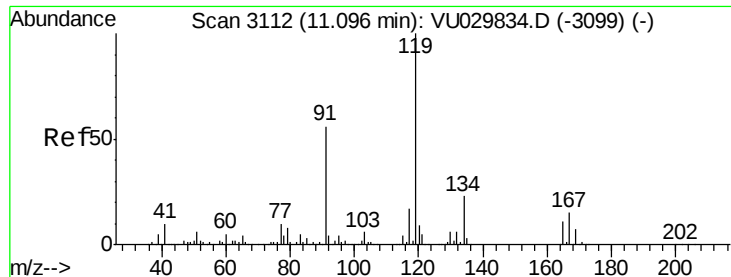
Ion Ratio Lower Upper

131 100

133 95.5 76.4 114.6

119 66.3 54.2 81.4





#61

Pentachloroethane

Concen: 0.201 ug/l

RT: 11.10 min Scan# 3113

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

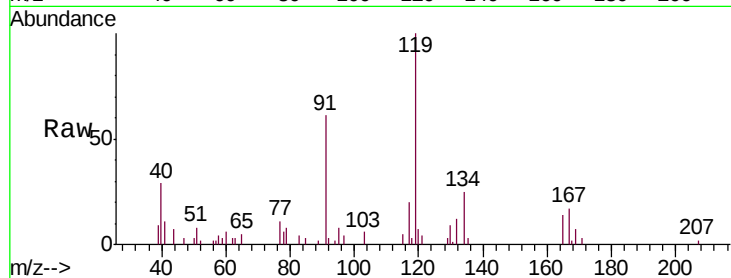
MDL04

Tgt Ion:117 Resp: 2346

Ion Ratio Lower Upper

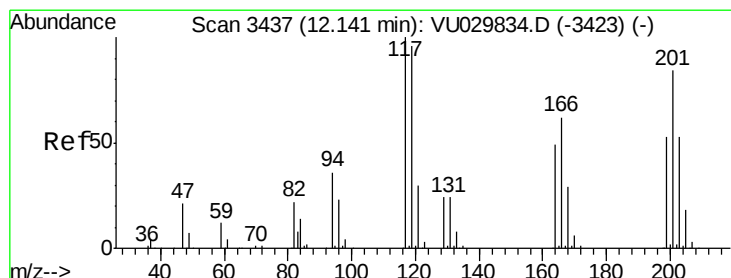
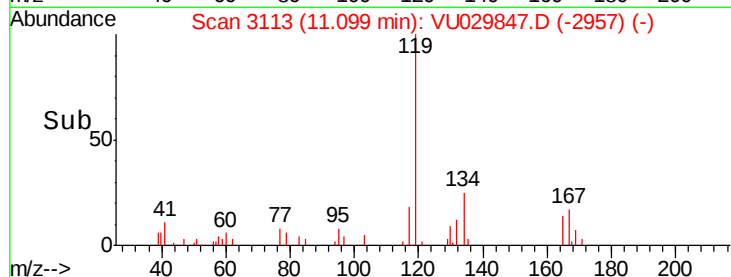
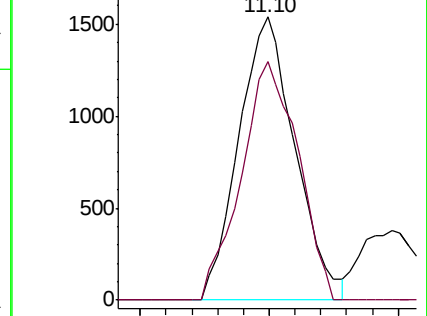
117 100

167 85.2 71.4 107.2



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



#62

Hexachloroethane

Concen: 0.190 ug/l

RT: 12.14 min Scan# 3438

Delta R.T. 0.00 min

Lab File: VU029847.D

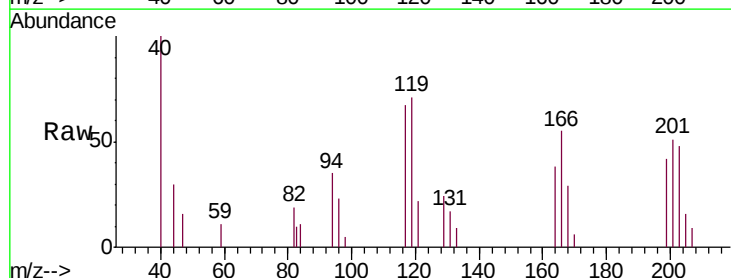
Acq: 07 Mar 2019 11:17

Tgt Ion:117 Resp: 2334

Ion Ratio Lower Upper

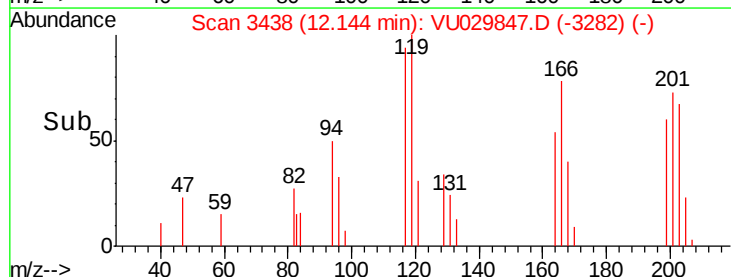
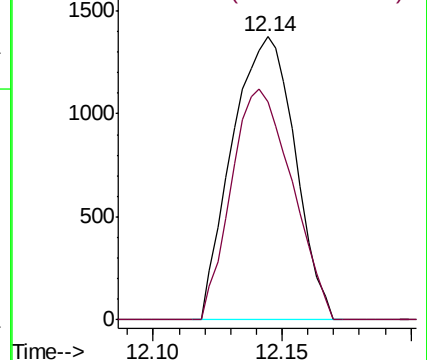
117 100

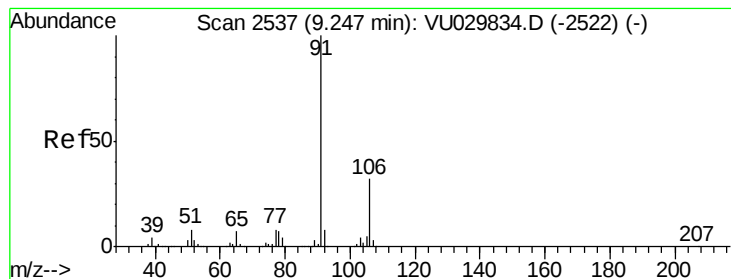
201 79.1 68.2 102.2



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V





#63

Ethyl Benzene

Concen: 0.201 ug/l

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampled :

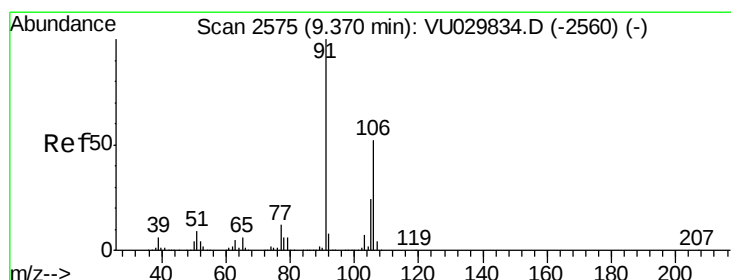
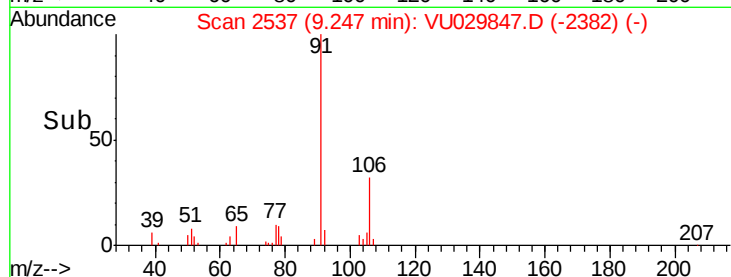
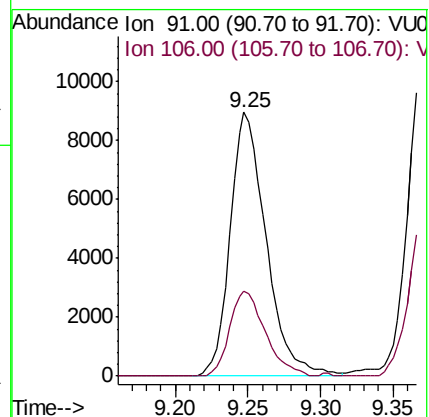
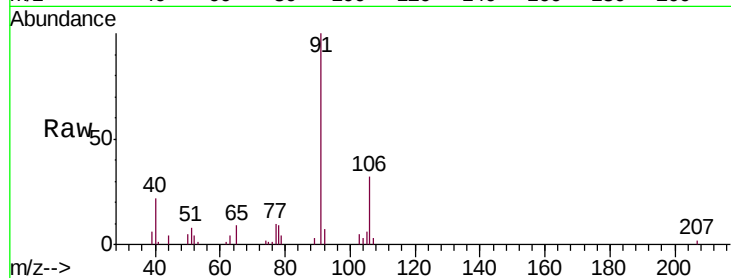
MDL04

Tgt Ion: 91 Resp: 15448

Ion Ratio Lower Upper

91 100

106 32.1 25.7 38.5



#64

m/p-Xylenes

Concen: 0.388 ug/l

RT: 9.38 min Scan# 2577

Delta R.T. 0.01 min

Lab File: VU029847.D

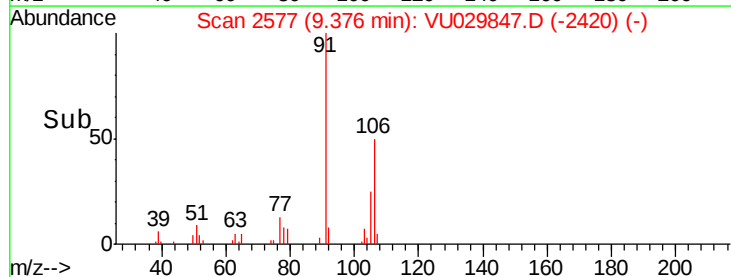
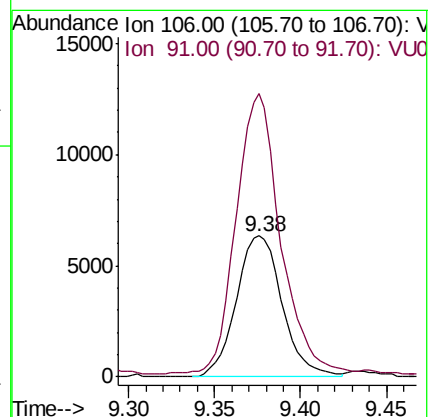
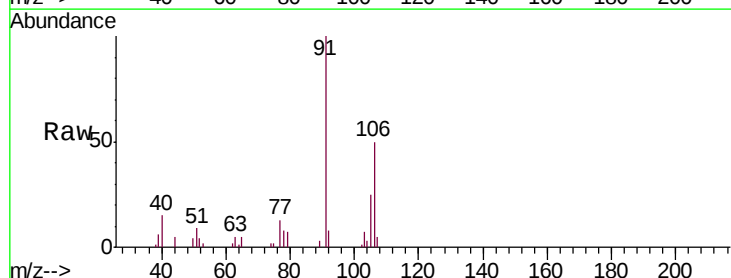
Acq: 07 Mar 2019 11:17

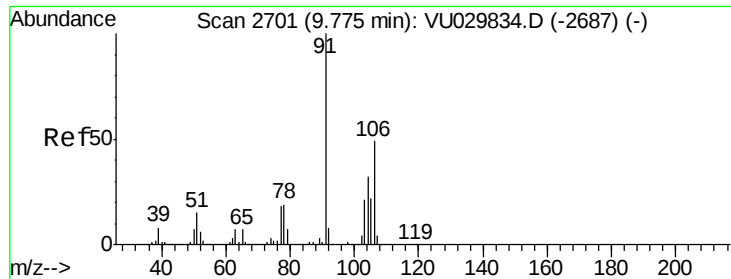
Tgt Ion: 106 Resp: 11768

Ion Ratio Lower Upper

106 100

91 193.1 155.3 232.9

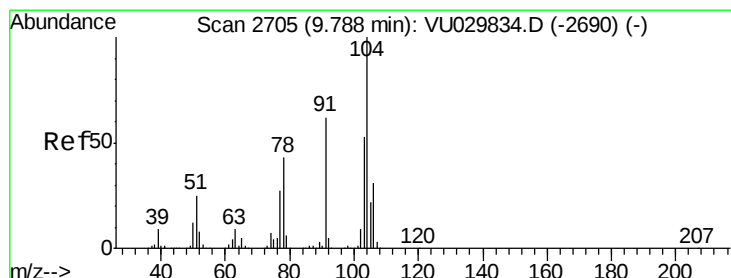
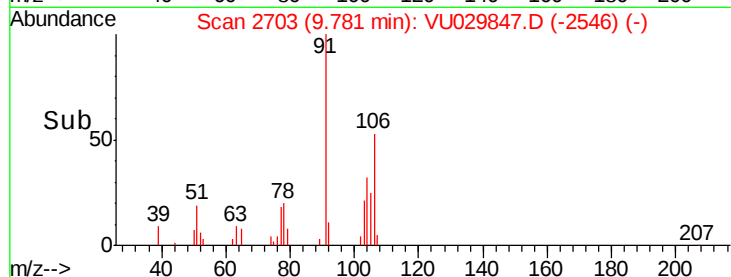
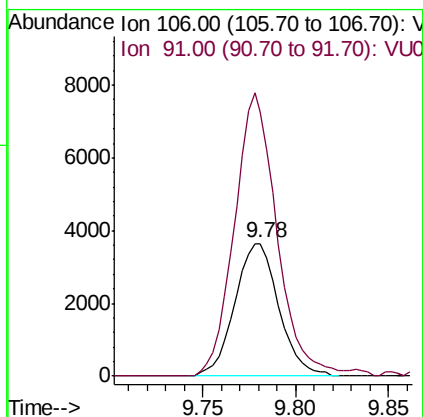
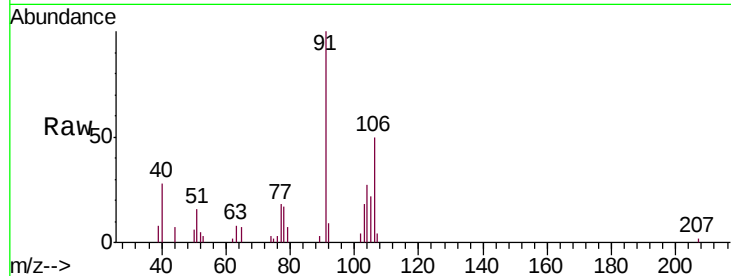




#65  
o-Xylene  
Concen: 0.206 ug/l  
RT: 9.78 min Scan# 2703  
Delta R.T. 0.01 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

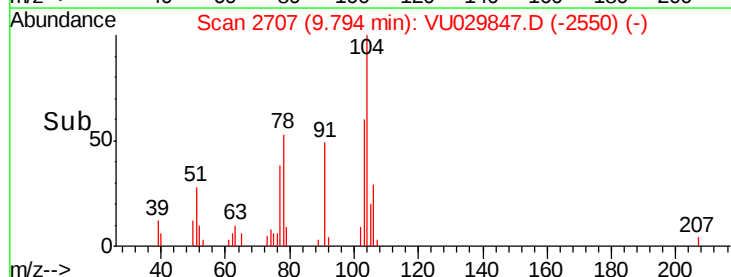
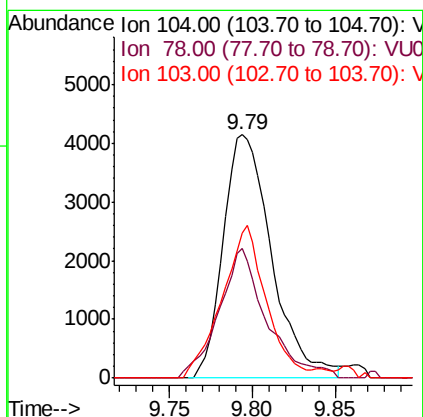
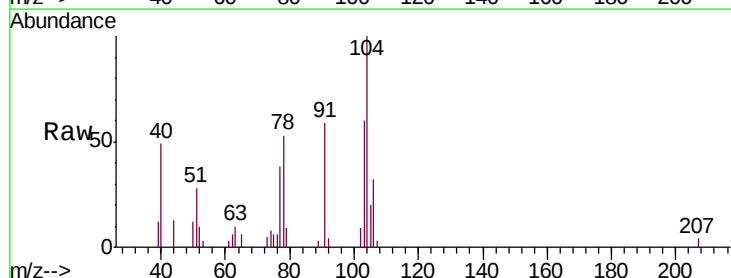
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

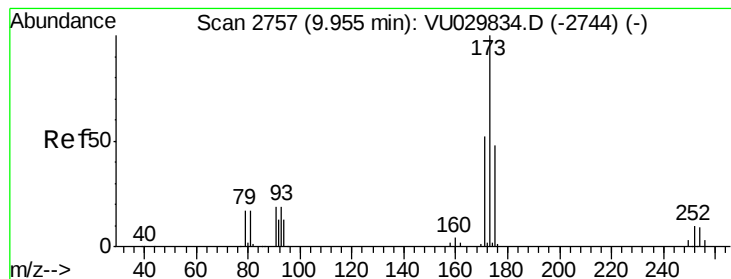
Tgt Ion:106 Resp: 5987  
Ion Ratio Lower Upper  
106 100  
91 206.0 102.8 308.3



#66  
Styrene  
Concen: 0.174 ug/l  
RT: 9.79 min Scan# 2707  
Delta R.T. 0.01 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Tgt Ion:104 Resp: 8431  
Ion Ratio Lower Upper  
104 100  
78 52.3 37.2 55.8  
103 57.4 44.7 67.1





#67

Bromoform

Concen: 0.196 ug/l

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampled :

MDL04

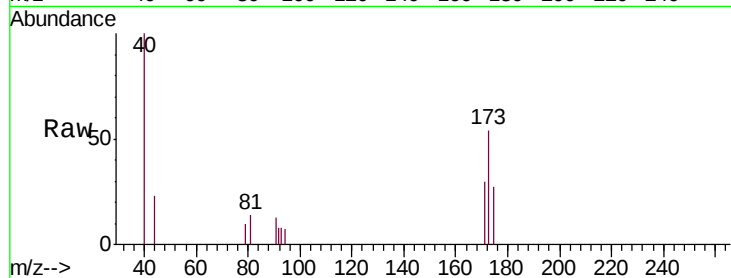
Tgt Ion:173 Resp: 1763

Ion Ratio Lower Upper

173 100

175 45.5 38.6 57.8

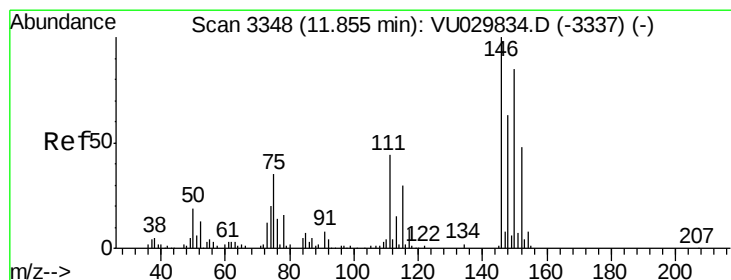
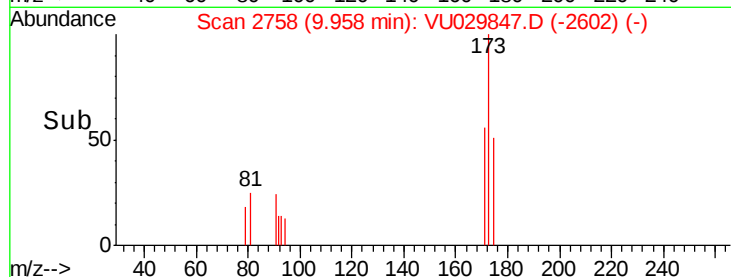
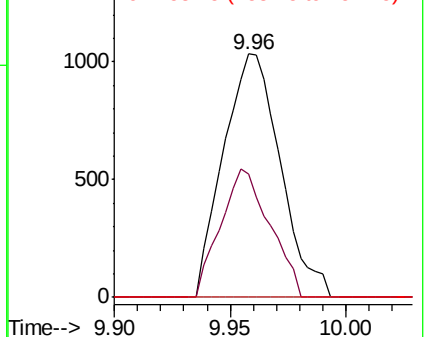
254 0.0 7.4 11.2#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 0.196 ug/l

RT: 11.86 min Scan# 3350

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

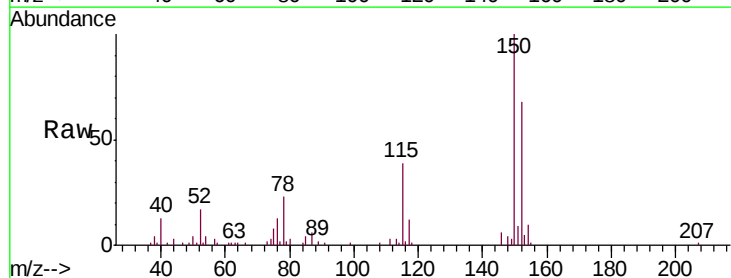
Tgt Ion:152 Resp: 22438

Ion Ratio Lower Upper

152 100

115 61.7 0.0 124.0

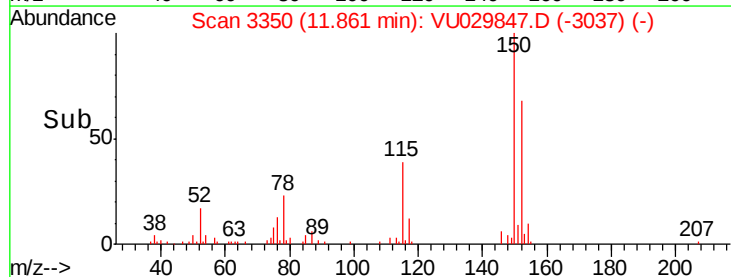
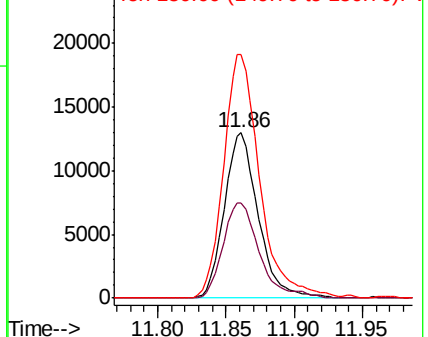
150 156.4 0.0 631.2

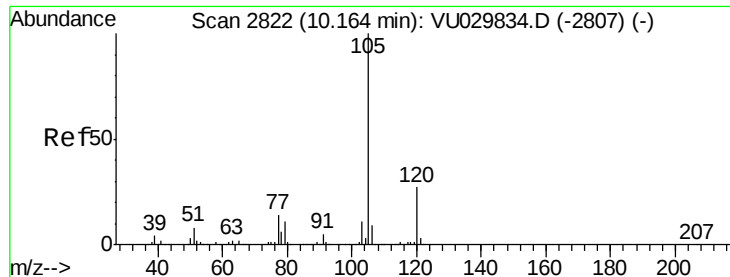


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 0.205 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampled :

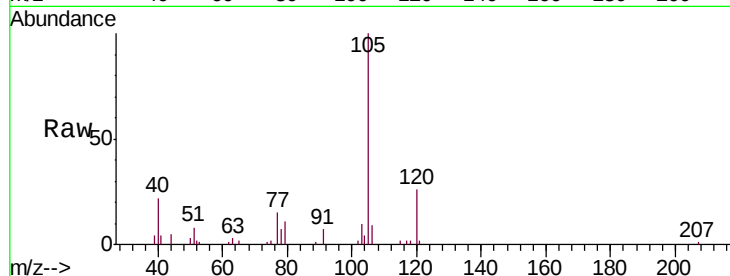
MDL04

Tgt Ion:105 Resp: 15808

Ion Ratio Lower Upper

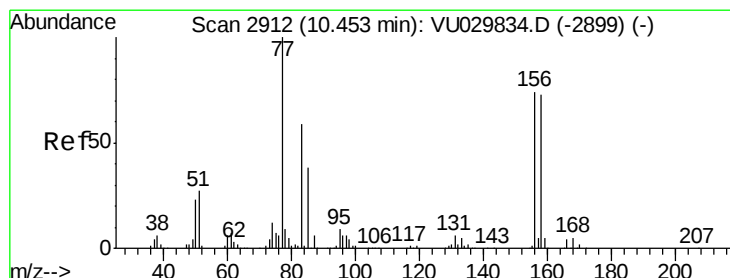
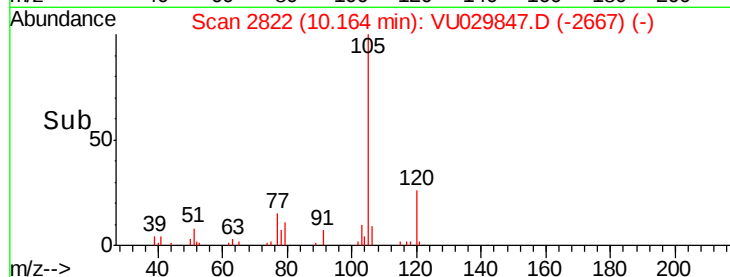
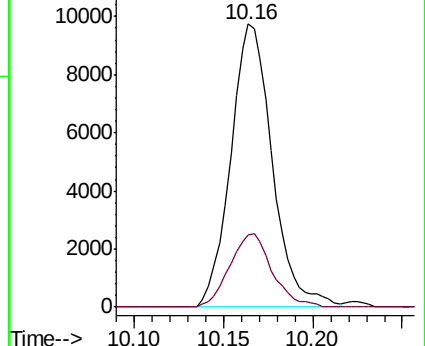
105 100

120 26.4 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#70

1,1,2,2-Tetrachloroethane

Concen: 0.222 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

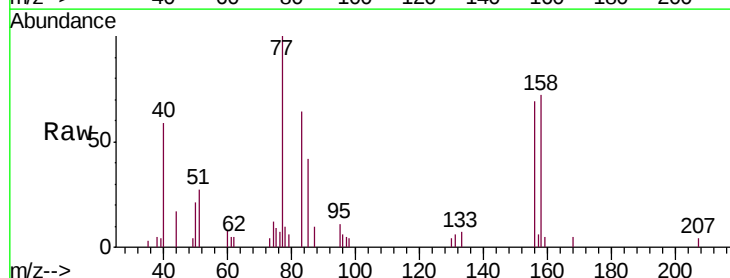
Tgt Ion: 83 Resp: 3488

Ion Ratio Lower Upper

83 100

131 8.8 8.3 12.5

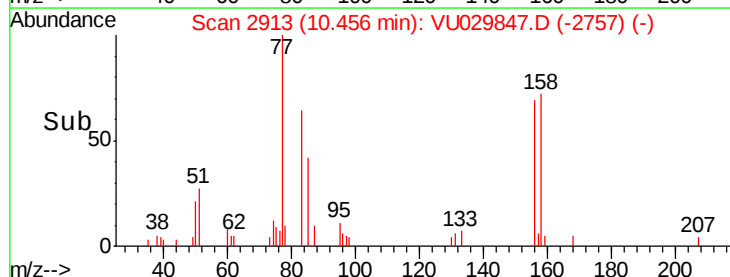
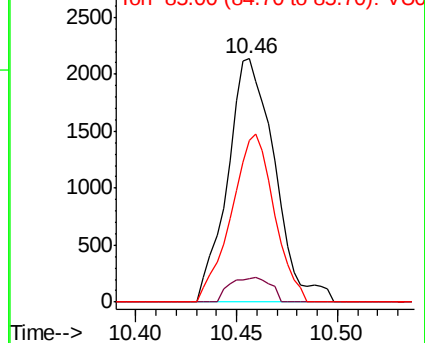
85 62.9 52.5 78.7

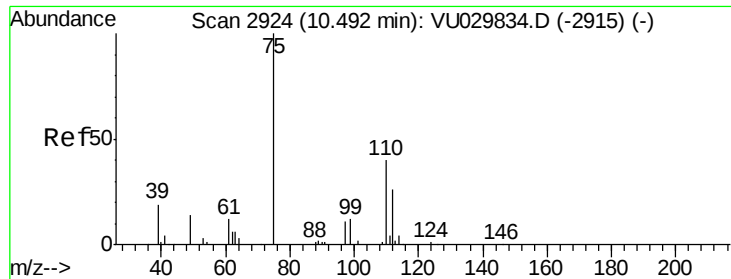


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VU0

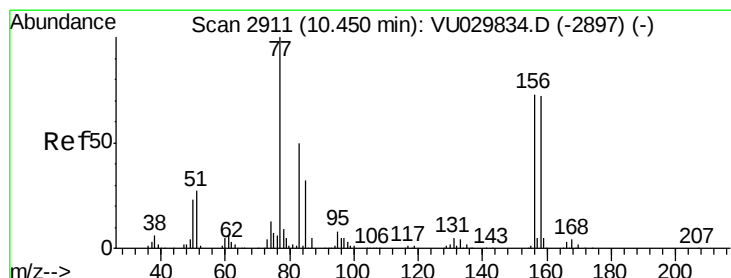
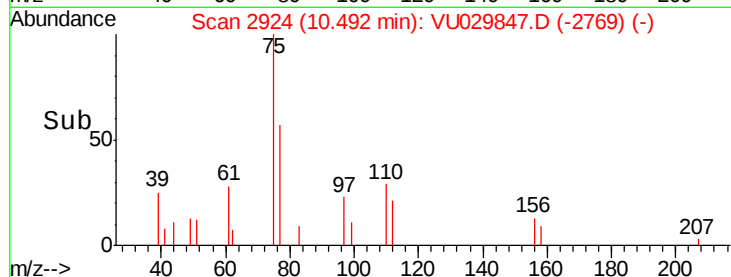
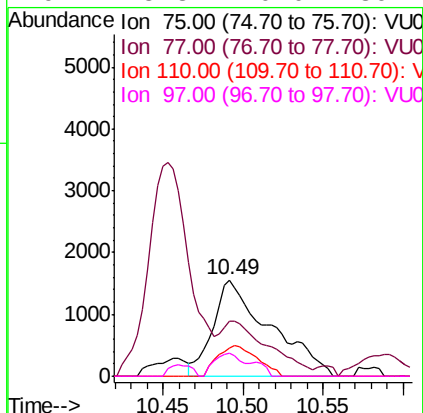
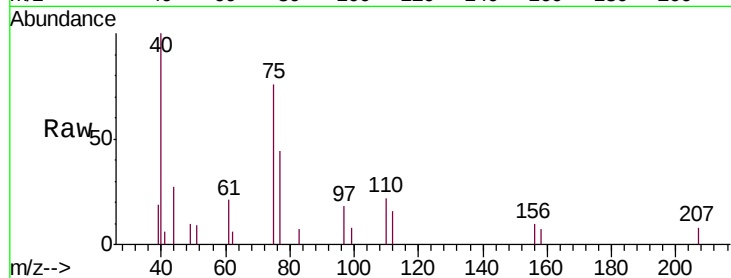




#71  
 1,2,3-Trichloropropane  
 Concen: 0.326 ug/l  
 RT: 10.49 min Scan# 2924  
 Delta R.T. -0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

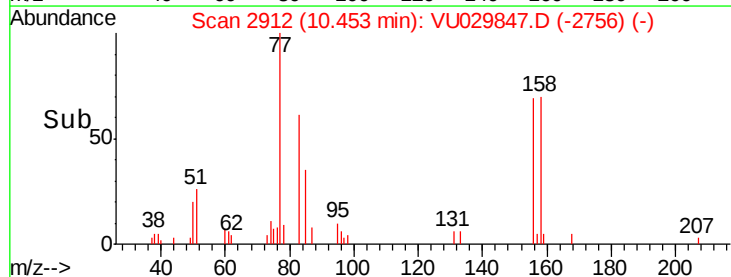
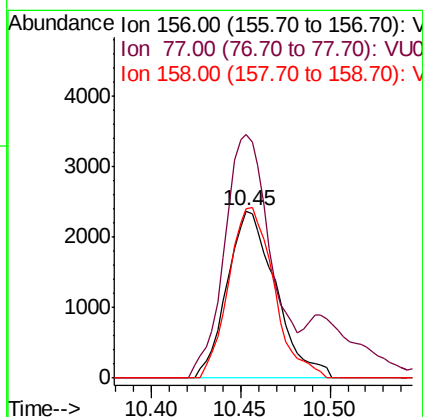
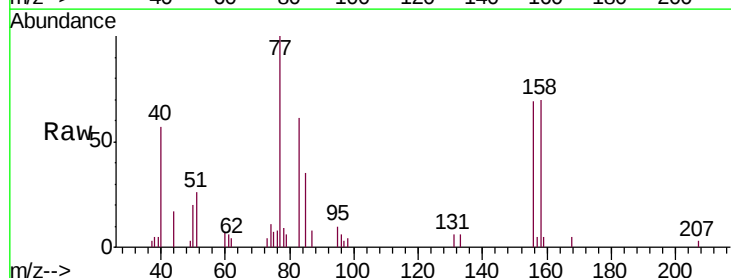
Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 MDL04

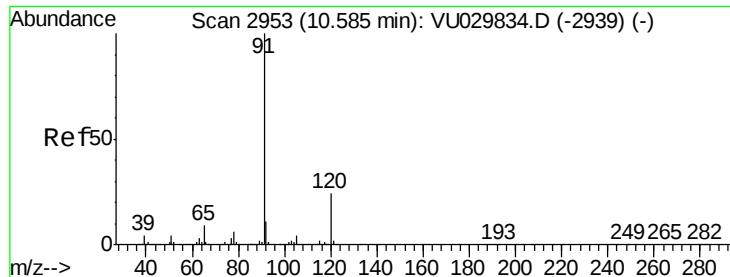
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 3802  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 45.9  | 0.0   | 16.4# |
| 110      | 22.1  | 0.0   | 74.8  |
| 97       | 15.3  | 0.0   | 39.4  |



#72  
 Bromobenzene  
 Concen: 0.219 ug/l  
 RT: 10.45 min Scan# 2912  
 Delta R.T. 0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 156   | Resp: | 4481  |
| Ion      | Ratio | Lower | Upper |
| 156      | 100   |       |       |
| 77       | 138.7 | 0.0   | 282.2 |
| 158      | 95.2  | 0.0   | 196.2 |





#73

n-propylbenzene

Concen: 0.194 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. -0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

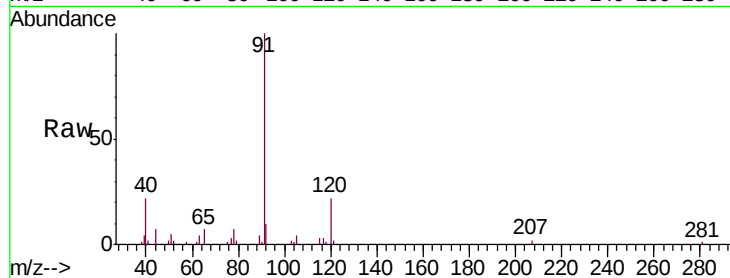
MDL04

Tgt Ion:120 Resp: 4203

Ion Ratio Lower Upper

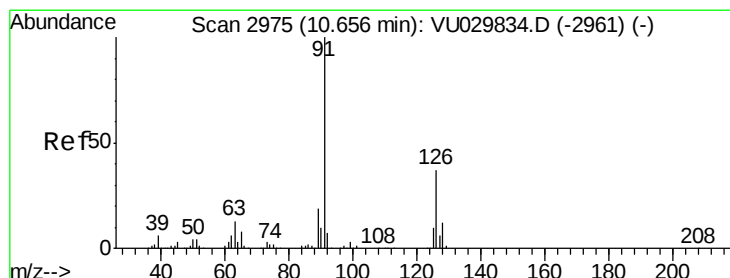
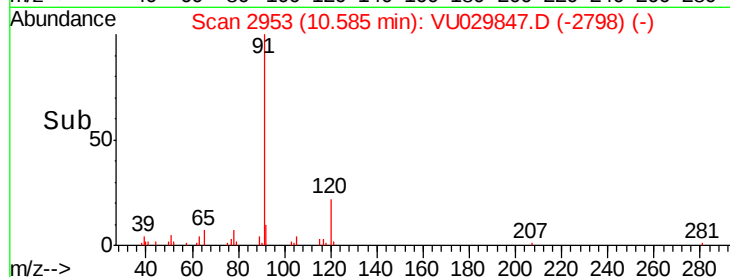
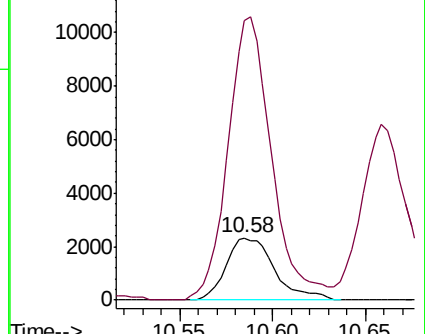
120 100

91 411.2 333.4 500.2



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 0.194 ug/l

RT: 10.66 min Scan# 2977

Delta R.T. 0.01 min

Lab File: VU029847.D

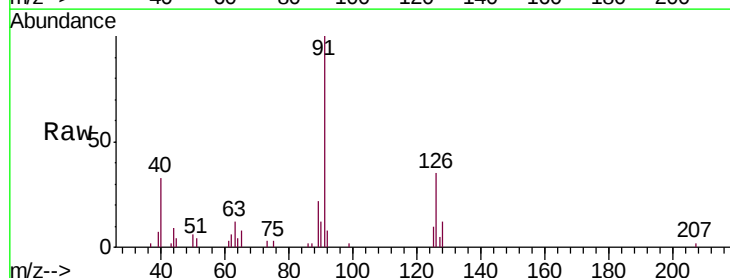
Acq: 07 Mar 2019 11:17

Tgt Ion:126 Resp: 3733

Ion Ratio Lower Upper

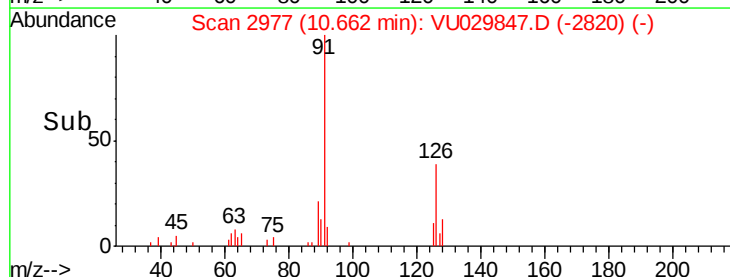
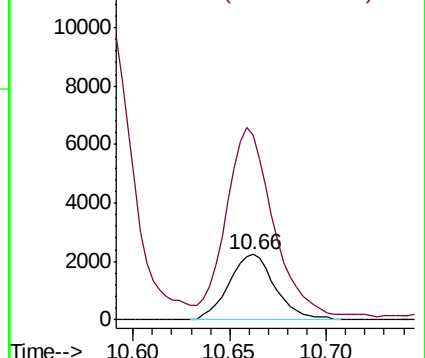
126 100

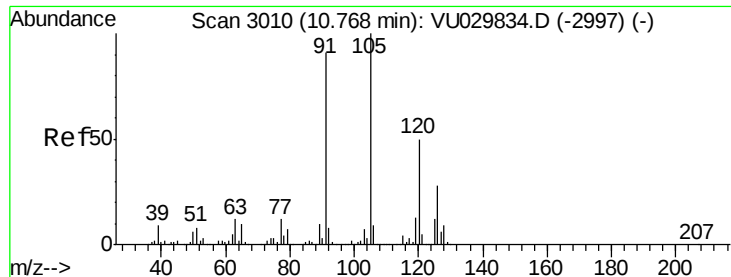
91 310.7 0.0 569.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 0.186 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

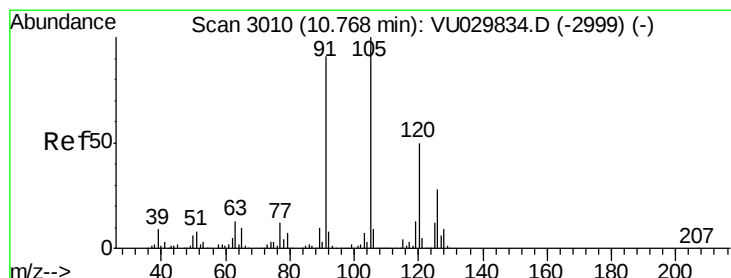
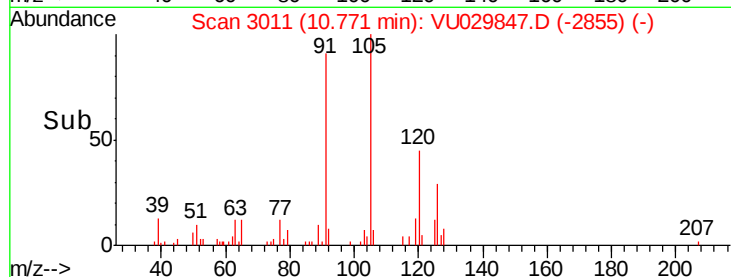
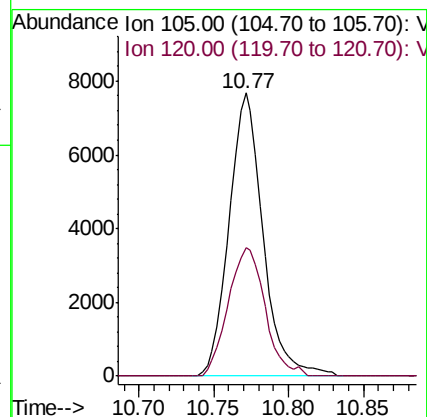
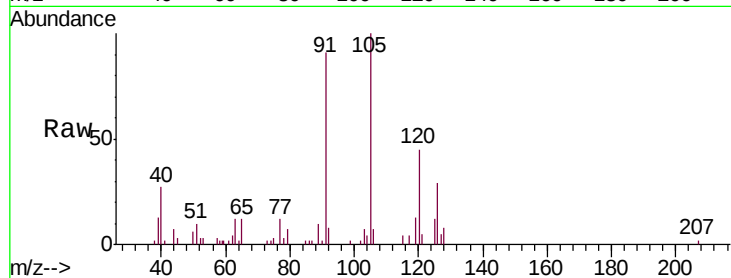
MDL04

Tgt Ion:105 Resp: 12132

Ion Ratio Lower Upper

105 100

120 49.2 40.0 60.0



#76

4-Chlorotoluene

Concen: 0.190 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU029847.D

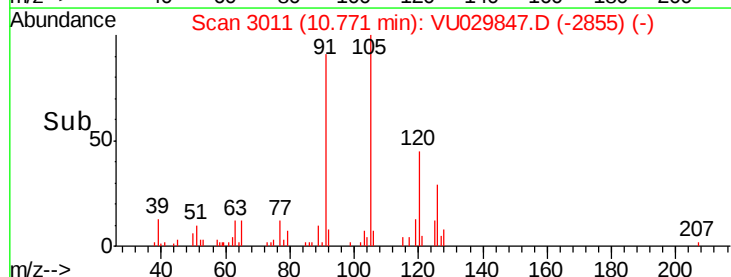
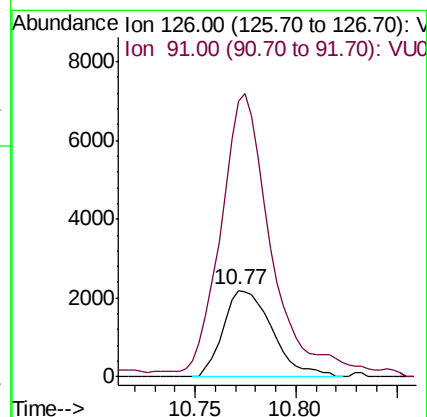
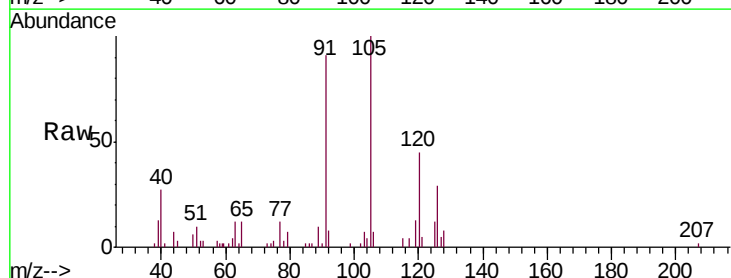
Acq: 07 Mar 2019 11:17

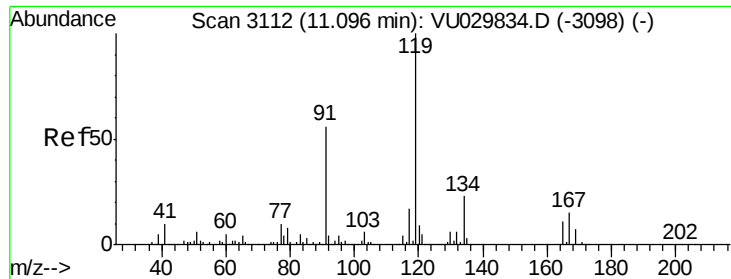
Tgt Ion:126 Resp: 3723

Ion Ratio Lower Upper

126 100

91 342.7 0.0 634.8

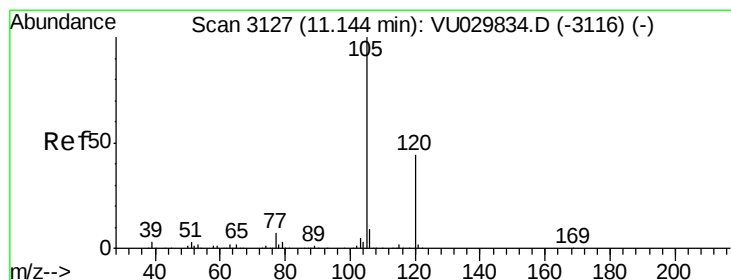
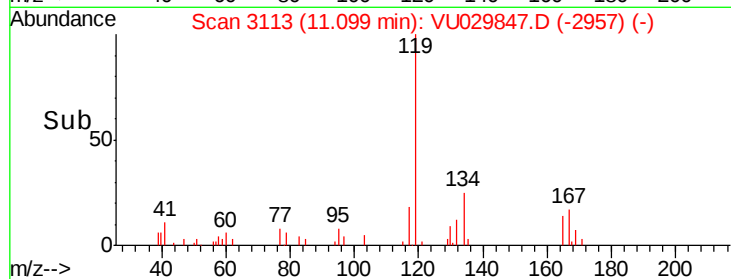
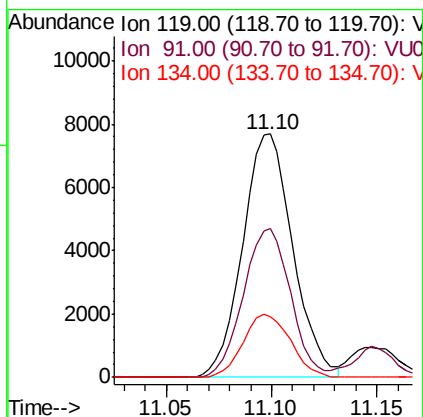
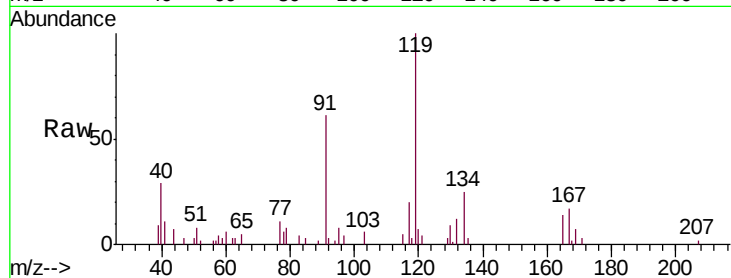




#77  
 tert-Butylbenzene  
 Concen: 0.198 ug/l  
 RT: 11.10 min Scan# 3113  
 Delta R.T. 0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

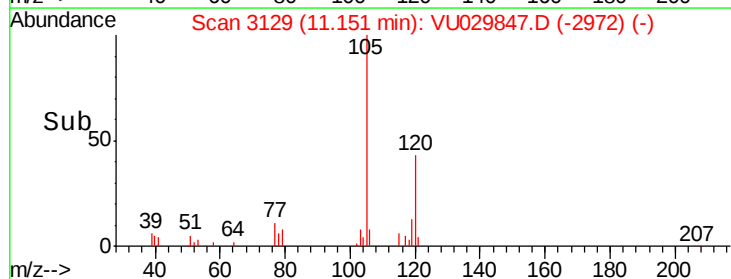
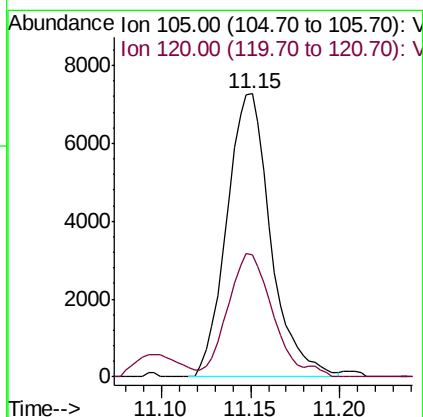
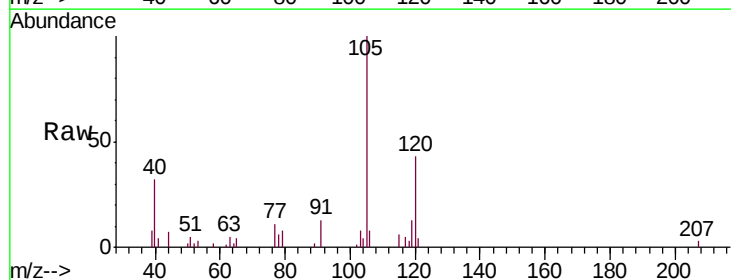
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

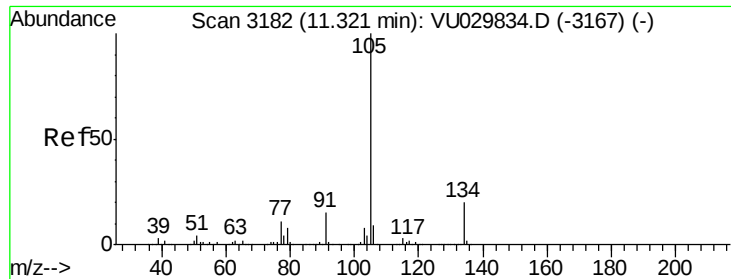
Tgt Ion:119 Resp: 12728  
 Ion Ratio Lower Upper  
 119 100  
 91 57.1 27.7 83.1  
 134 24.3 18.7 28.1



#78  
 1,2,4-Trimethylbenzene  
 Concen: 0.190 ug/l  
 RT: 11.15 min Scan# 3129  
 Delta R.T. 0.01 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion:105 Resp: 12494  
 Ion Ratio Lower Upper  
 105 100  
 120 45.1 23.5 70.5

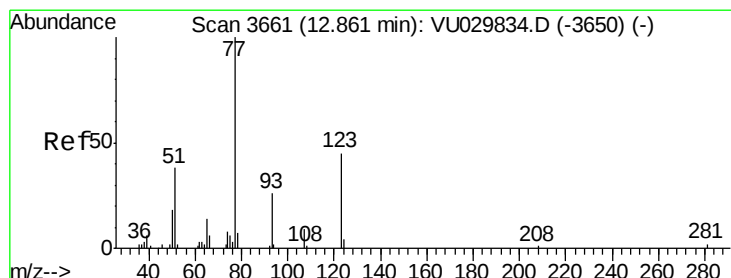
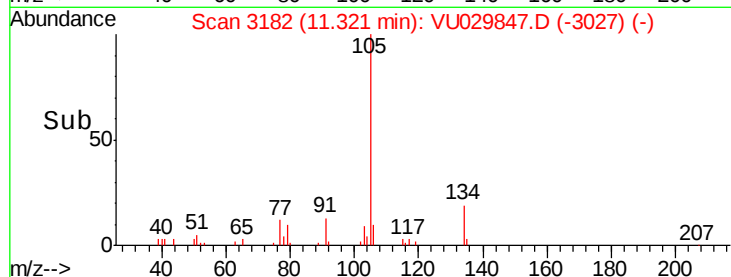
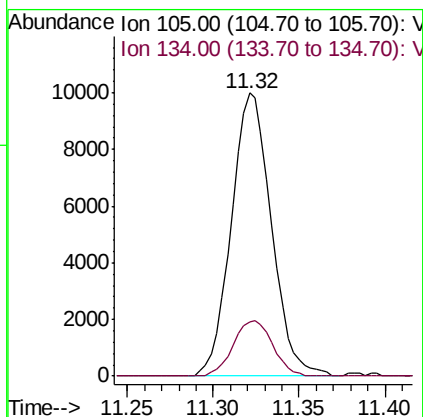
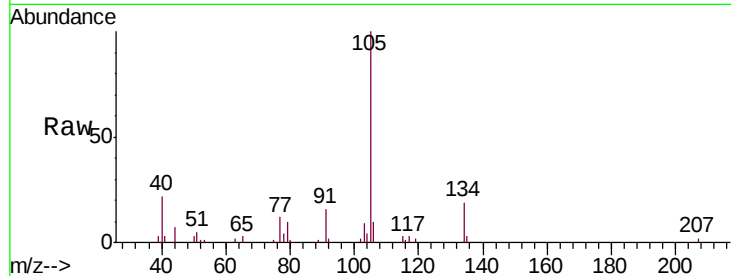




#79  
 sec-Butylbenzene  
 Concen: 0.190 ug/l  
 RT: 11.32 min Scan# 3182  
 Delta R.T. -0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

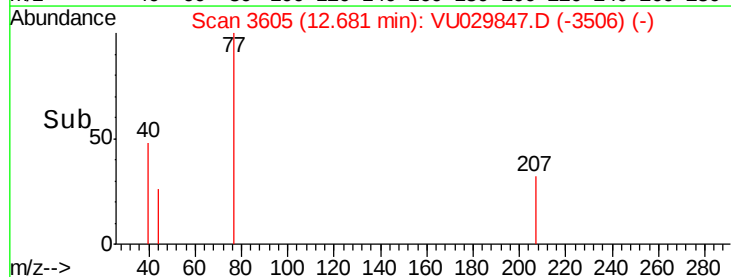
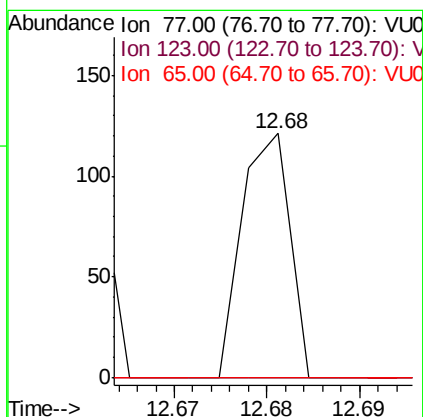
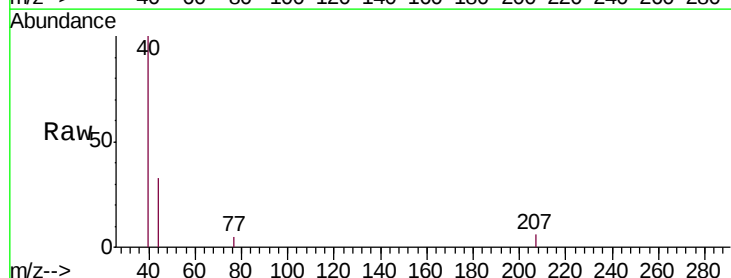
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL04

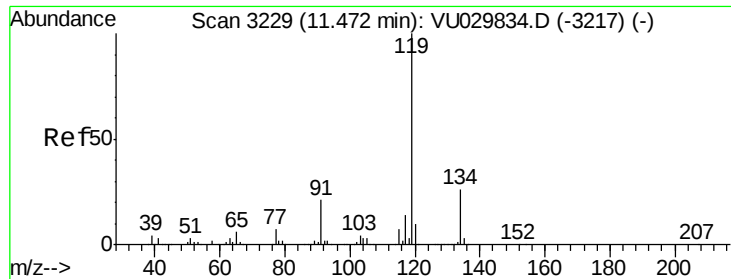
Tgt Ion:105 Resp: 16246  
 Ion Ratio Lower Upper  
 105 100  
 134 19.3 16.3 24.5



#80  
 Nitrobenzene  
 Concen: 0.151 ug/l  
 RT: 12.68 min Scan# 3605  
 Delta R.T. -0.18 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion: 77 Resp: 43  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 20.2 71.4#  
 65 0.0 14.0 17.8#

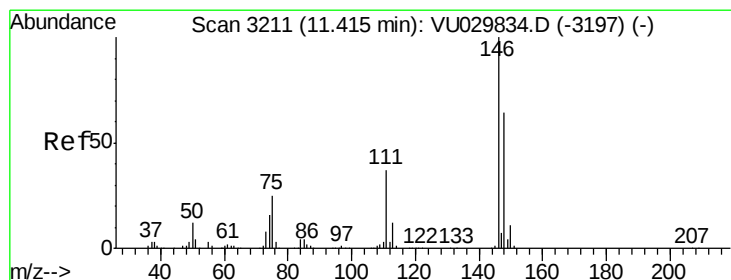
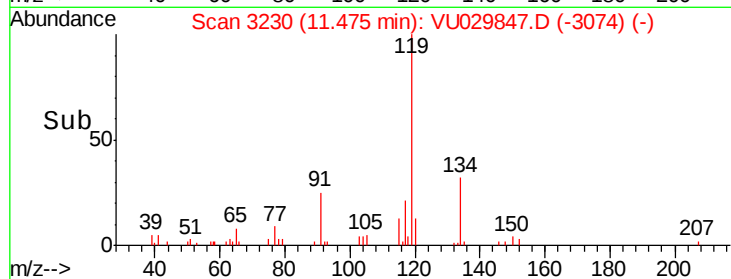
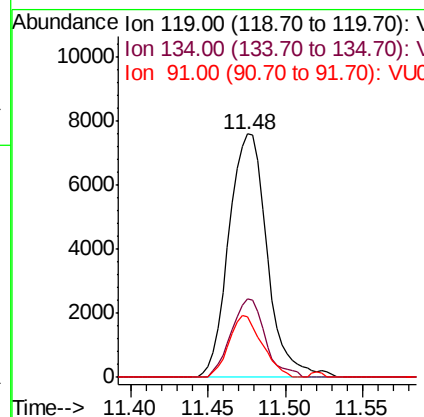
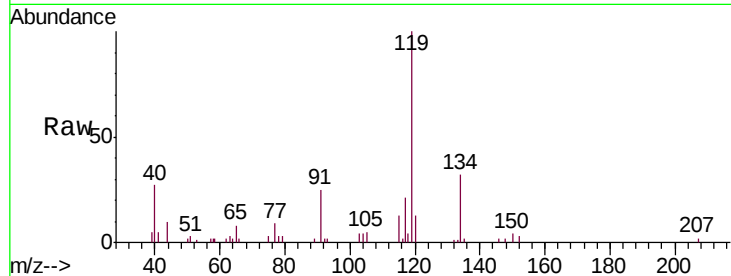




#81  
p-Isopropyltoluene  
Concen: 0.183 ug/l  
RT: 11.48 min Scan# 3230  
Delta R.T. 0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

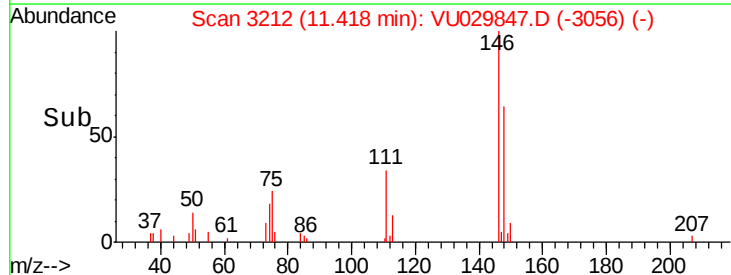
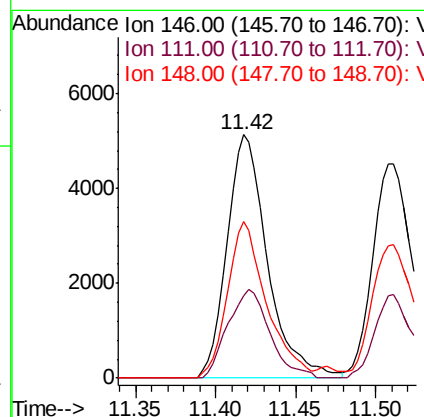
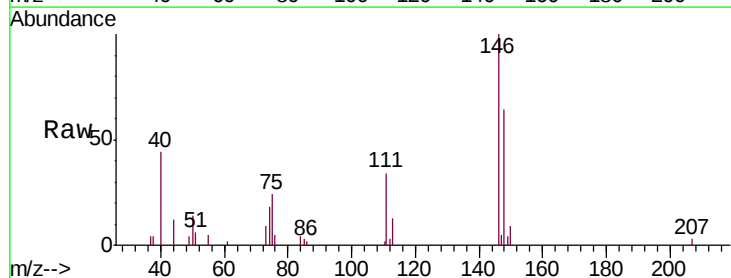
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

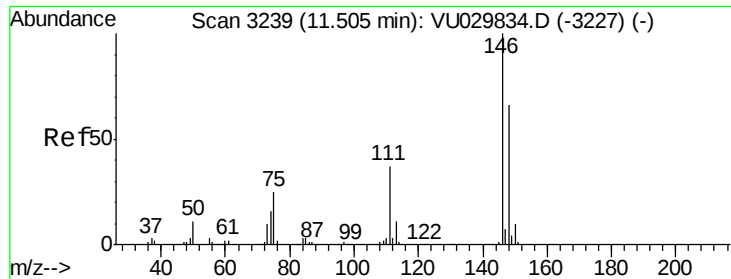
Tgt Ion:119 Resp: 13062  
Ion Ratio Lower Upper  
119 100  
134 28.5 21.2 31.8  
91 21.9 17.2 25.8



#82  
1,3-Dichlorobenzene  
Concen: 0.219 ug/l  
RT: 11.42 min Scan# 3212  
Delta R.T. 0.00 min  
Lab File: VU029847.D  
Acq: 07 Mar 2019 11:17

Tgt Ion:146 Resp: 8886  
Ion Ratio Lower Upper  
146 100  
111 37.5 30.2 45.4  
148 62.0 51.2 76.8

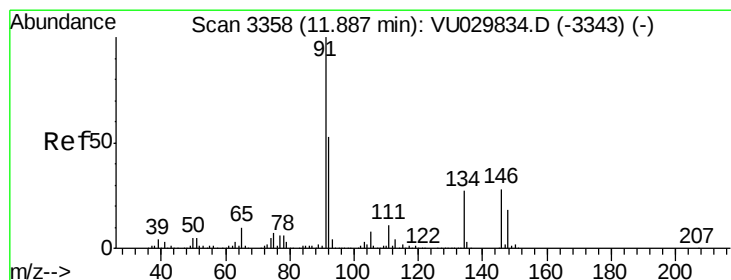
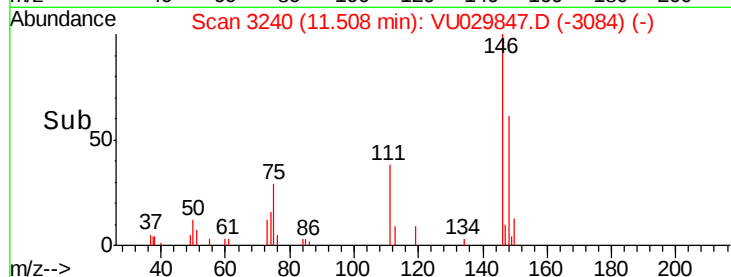
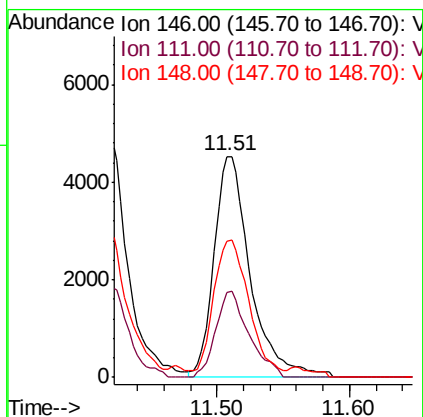
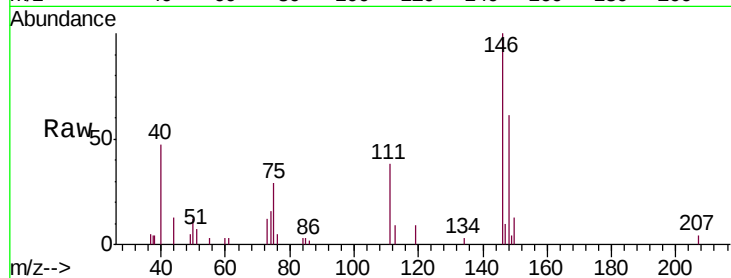




#83  
 1,4-Dichlorobenzene  
 Concen: 0.218 ug/l  
 RT: 11.51 min Scan# 3240  
 Delta R.T. 0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

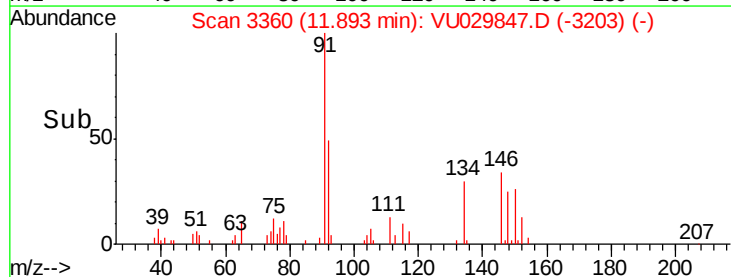
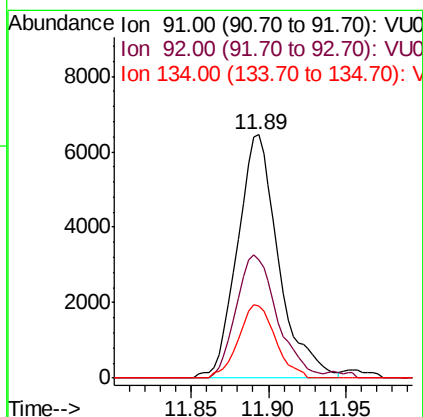
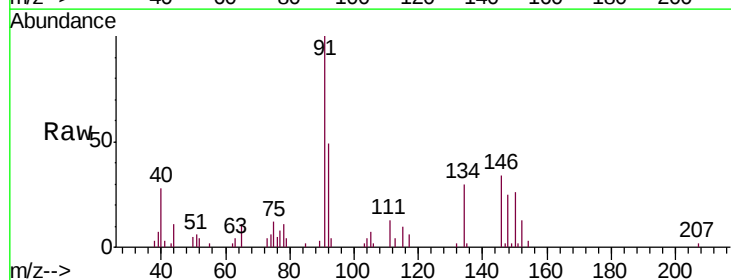
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

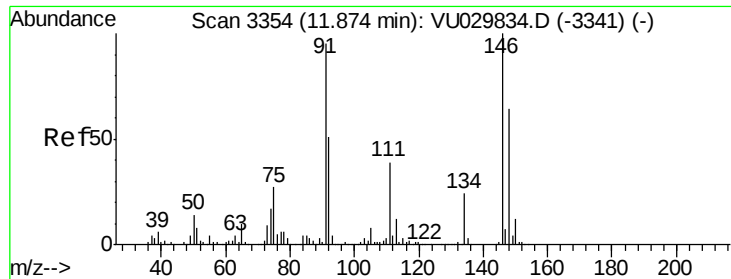
Tgt Ion: 146 Resp: 8624  
 Ion Ratio Lower Upper  
 146 100  
 111 35.5 29.4 44.2  
 148 56.6 51.7 77.5



#84  
 n-Butylbenzene  
 Concen: 0.184 ug/l  
 RT: 11.89 min Scan# 3360  
 Delta R.T. 0.01 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion: 91 Resp: 11943  
 Ion Ratio Lower Upper  
 91 100  
 92 50.6 42.6 63.8  
 134 27.1 21.7 32.5

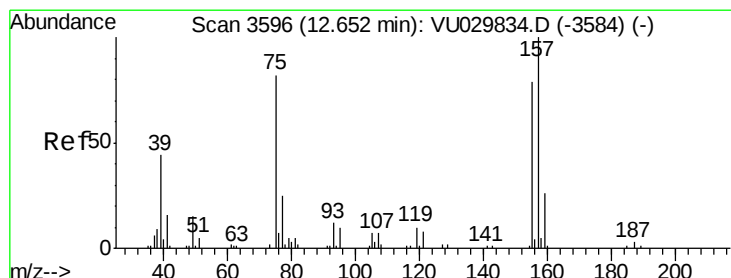
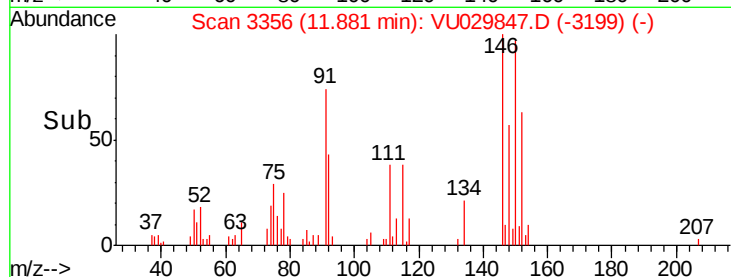
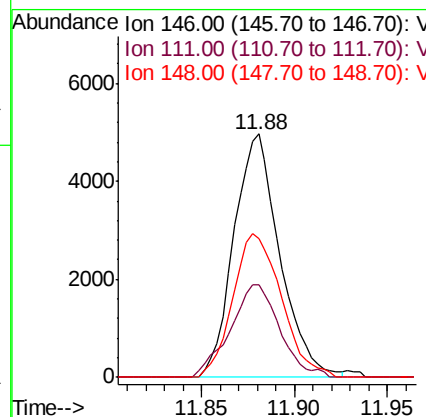
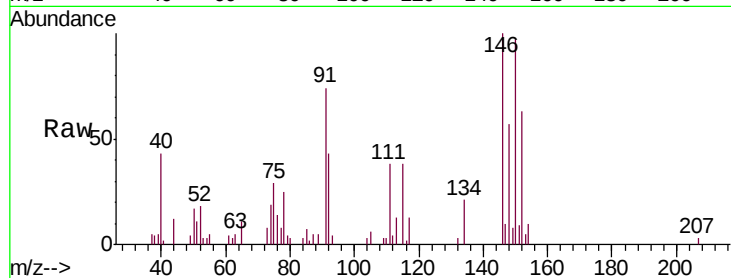




#85  
 1,2-Dichlorobenzene  
 Concen: 0.223 ug/l  
 RT: 11.88 min Scan# 3356  
 Delta R.T. 0.01 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

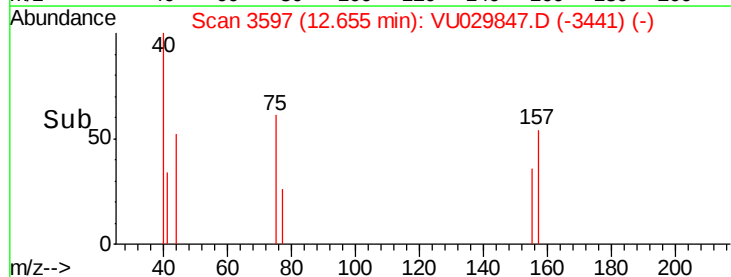
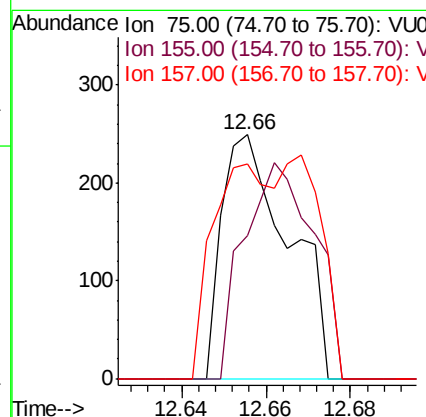
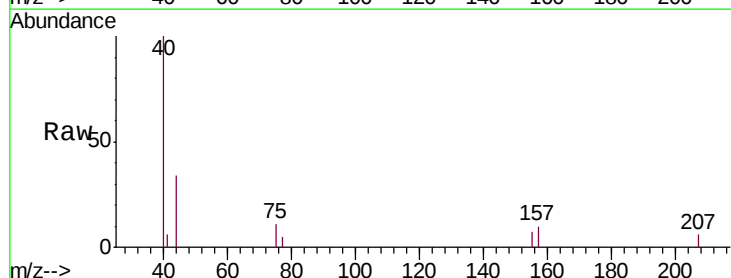
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

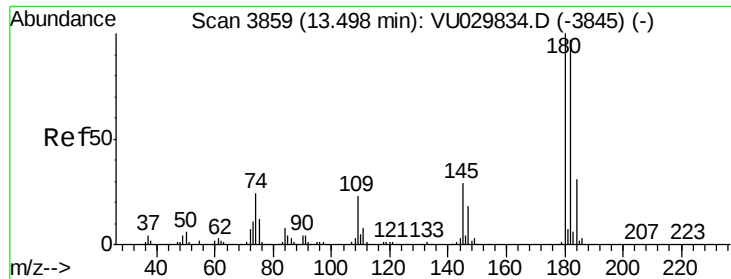
Tgt Ion: 146 Resp: 8531  
 Ion Ratio Lower Upper  
 146 100  
 111 41.1 19.9 59.6  
 148 62.4 32.1 96.3



#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.123 ug/l  
 RT: 12.66 min Scan# 3597  
 Delta R.T. 0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion: 75 Resp: 275  
 Ion Ratio Lower Upper  
 75 100  
 155 92.7 76.6 114.8  
 157 80.4 96.2 144.2#

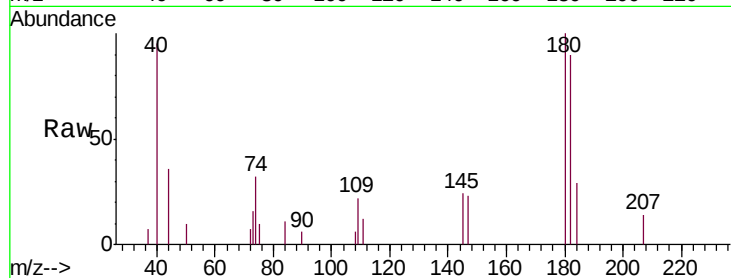




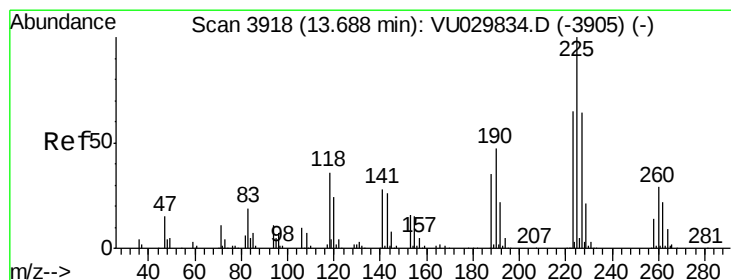
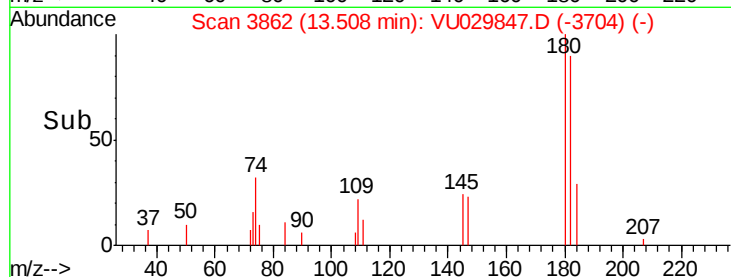
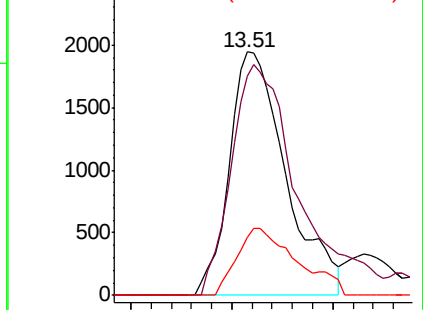
#87  
 1,2,4-Trichlorobenzene  
 Concen: 0.156 ug/l  
 RT: 13.51 min Scan# 3862  
 Delta R.T. 0.01 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

Tgt Ion:180 Resp: 3825  
 Ion Ratio Lower Upper  
 180 100  
 182 112.2 77.5 116.3  
 145 29.1 23.6 35.4

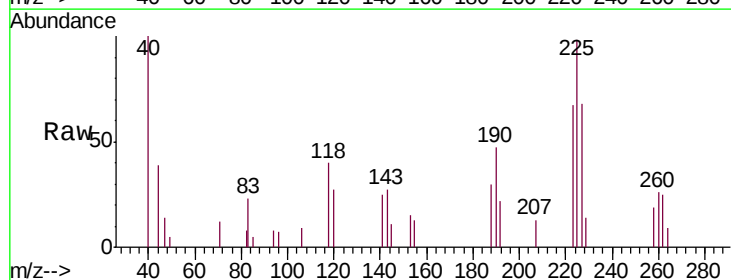


Abundance Ion 179.70 (179.40 to 180.40): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

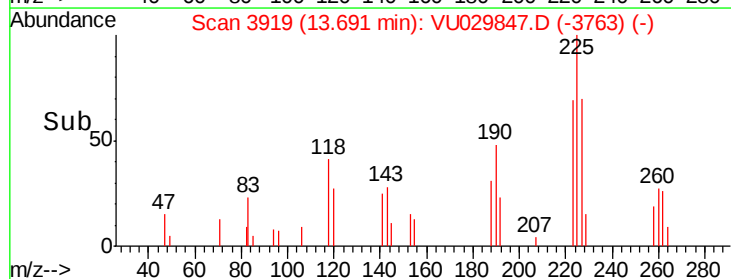
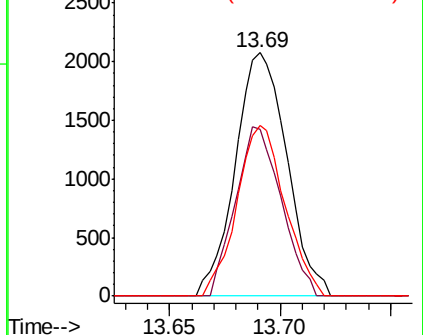


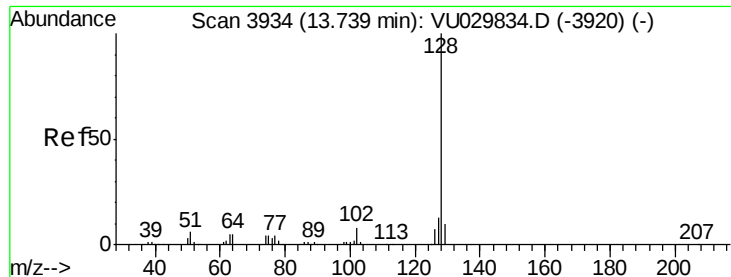
#88  
 Hexachlorobutadiene  
 Concen: 0.219 ug/l  
 RT: 13.69 min Scan# 3919  
 Delta R.T. 0.00 min  
 Lab File: VU029847.D  
 Acq: 07 Mar 2019 11:17

Tgt Ion:225 Resp: 3369  
 Ion Ratio Lower Upper  
 225 100  
 223 62.0 51.2 76.8  
 227 65.4 50.9 76.3



Abundance Ion 224.60 (224.30 to 225.30): V  
 Ion 222.60 (222.30 to 223.30): V  
 Ion 226.60 (226.30 to 227.30): V





#89

Naphthalene

Concen: 0.558 ug/l

RT: 13.76 min Scan# 3939

Delta R.T. 0.02 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

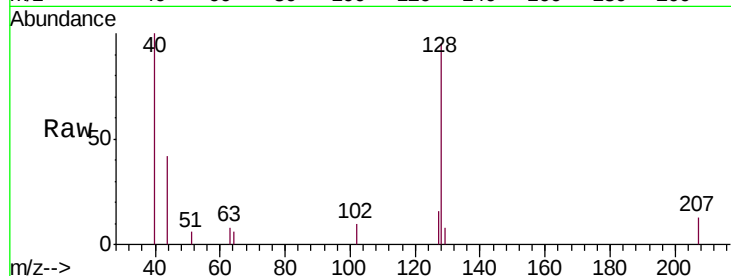
Tgt Ion:128 Resp: 4981

Ion Ratio Lower Upper

128 100

127 7.7 10.2 15.4#

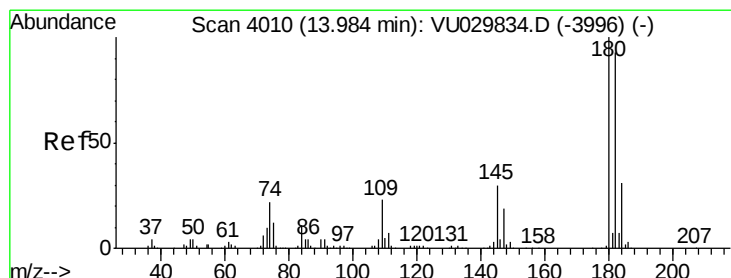
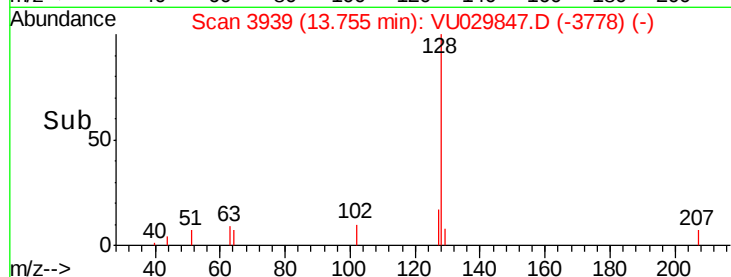
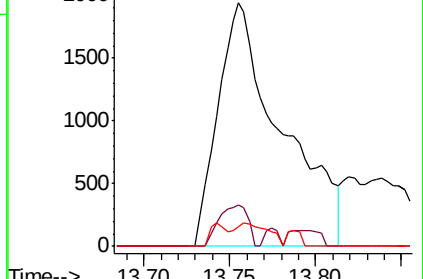
129 4.5 8.2 12.4#



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



#90

1,2,3-Trichlorobenzene

Concen: 0.166 ug/l

RT: 13.99 min Scan# 4012

Delta R.T. 0.01 min

Lab File: VU029847.D

Acq: 07 Mar 2019 11:17

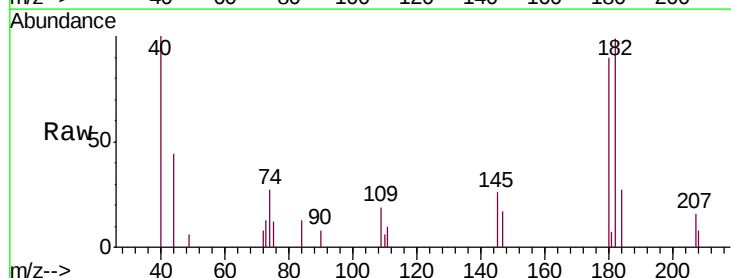
Tgt Ion:180 Resp: 3823

Ion Ratio Lower Upper

180 100

182 106.5 74.8 112.2

145 32.1 24.6 36.8



Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.70 (181.40 to 182.40): V

Ion 144.80 (144.50 to 145.50): V

