

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110218\  
 Data File : VU027933.D  
 Acq On : 02 Nov 2018 17:59  
 Operator : MD/SY  
 Sample : J5759-08  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 TP-2

Quant Time: Nov 03 04:25:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U110218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 02 02:28:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 189662   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 334165   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 294069   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 122086   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 146548   | 51.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.94% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 108555   | 51.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.04% |          |
| 50) Toluene-d8              | 7.57  | 98   | 428943   | 52.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.40% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 140506   | 46.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.60%  |          |

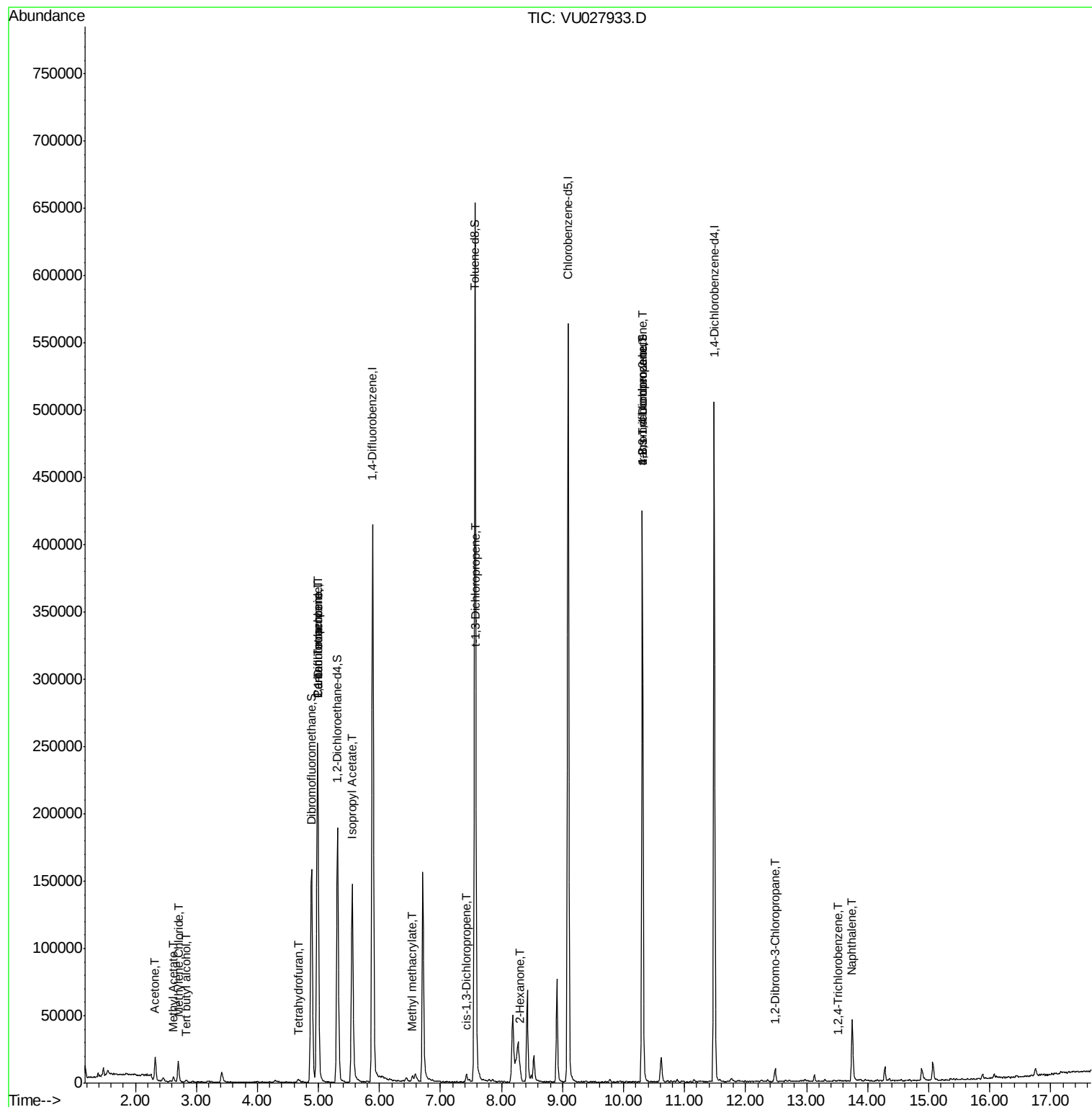
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 2.83  | 59   | 924      | 1.238     | ug/l # | 73     |
| 13) Acrolein                   | 2.19  | 56   | 142      | Below Cal | #      | 1      |
| 16) Acetone                    | 2.33  | 43   | 18579    | 10.620    | ug/l   | 95     |
| 18) Methyl Acetate             | 2.62  | 43   | 3863     | 0.803     | ug/l   | 95     |
| 20) Methylene Chloride         | 2.70  | 84   | 6045     | 2.367     | ug/l   | 88     |
| 29) Tetrahydrofuran            | 4.67  | 42   | 1444     | 0.777     | ug/l # | 53     |
| 31) Cyclohexane                | 4.99  | 56   | 4628     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 16539    | 4.726     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 18370    | 5.923     | ug/l # | 17     |
| 43) Isopropyl Acetate          | 5.55  | 43   | 178337   | 22.198    | ug/l   | 100    |
| 48) Methyl methacrylate        | 6.54  | 41   | 7097     | 1.803     | ug/l # | 22     |
| 53) t-1,3-Dichloropropene      | 7.59  | 75   | 41       | 1.128     | ug/l # | 43     |
| 54) cis-1,3-Dichloropropene    | 7.42  | 75   | 1062     | 0.252     | ug/l # | 61     |
| 59) 2-Hexanone                 | 8.31  | 43   | 1879     | 0.453     | ug/l # | 26     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 71971    | 21.552    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 71971    | 53.791    | ug/l # | 100    |
| 92) 1,2-Dibromo-3-Chloropropan | 12.49 | 75   | 292      | 0.363     | ug/l # | 4      |
| 93) 1,2,4-Trichlorobenzene     | 13.51 | 180  | 62       | 0.706     | ug/l # | 12     |
| 95) Naphthalene                | 13.75 | 128  | 39211    | 3.748     | ug/l   | 99     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U110218W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 02 02:28:20 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

Instrument :

MSVOA\_U

ClientSampleId :

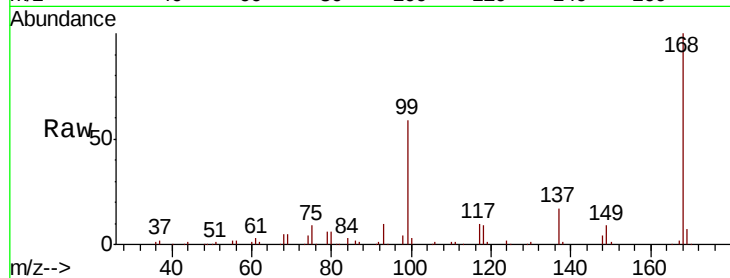
TP-2

Tot Ion:168 Resp: 189662

Ion Ratio Lower Upper

168 100

99 59.2 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027933.D (-1092) (-)

4.99

80000

60000

40000

20000

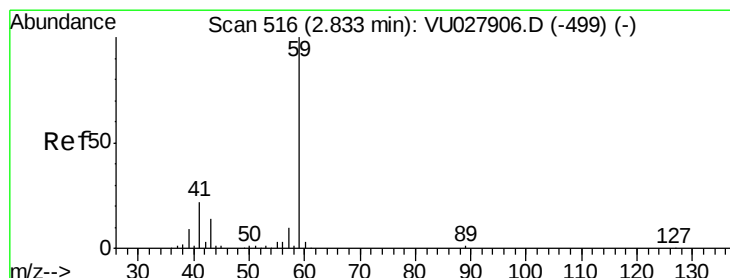
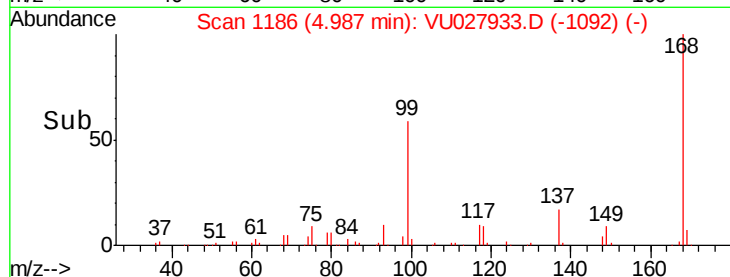
0

Time-->

4.90

5.00

5.10



#11

Tert butyl alcohol

Concen: 1.238 ug/l

RT: 2.83 min Scan# 514

Delta R.T. -0.01 min

Lab File: VU027933.D

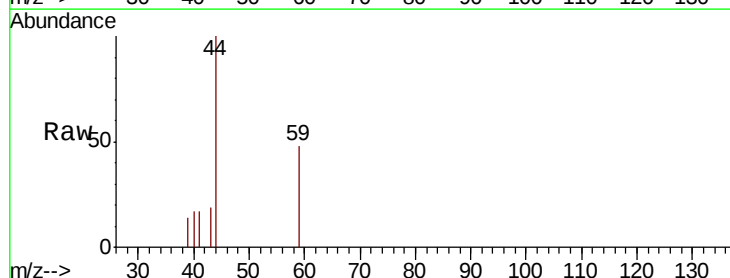
Acq: 02 Nov 2018 17:59

Tgt Ion: 59 Resp: 924

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU027906.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU027933.D (-423) (-)

2.83

500

400

300

200

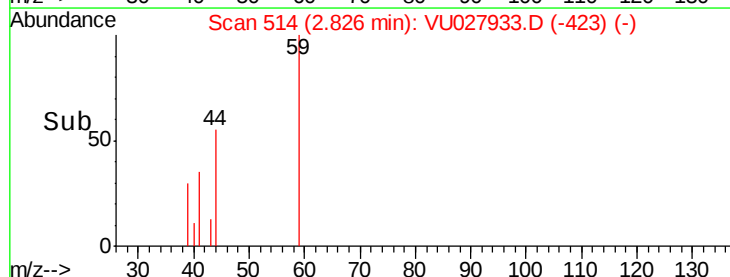
100

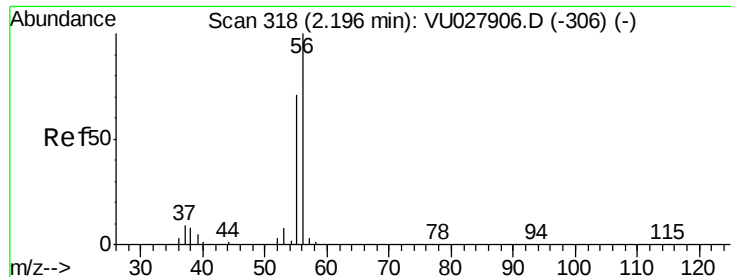
0

Time-->

2.80

2.85





#13

Acrolein

Concen: Below Cal

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

Instrument :

MSVOA\_U

ClientSampleId :

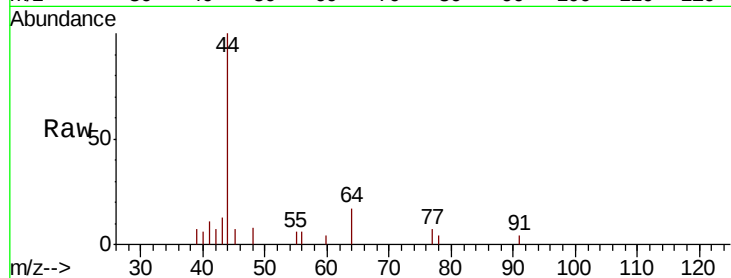
TP-2

Tot Ion: 56 Resp: 142

Ion Ratio Lower Upper

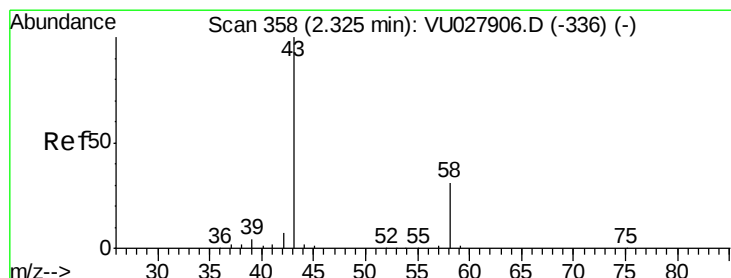
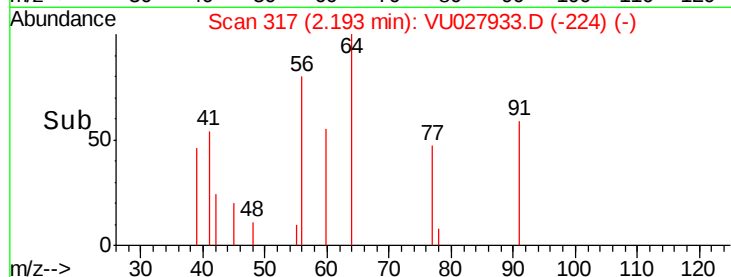
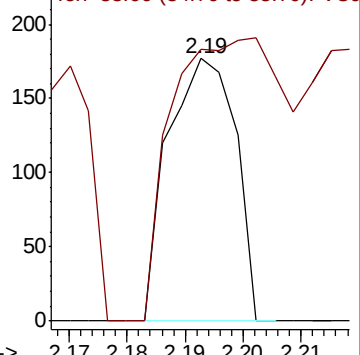
56 100

55 182.4 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 10.620 ug/l

RT: 2.33 min Scan# 359

Delta R.T. 0.00 min

Lab File: VU027933.D

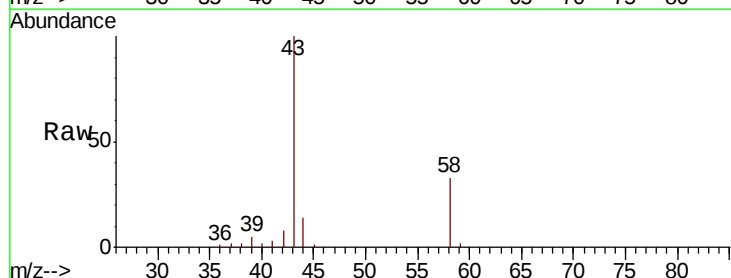
Acq: 02 Nov 2018 17:59

Tgt Ion: 43 Resp: 18579

Ion Ratio Lower Upper

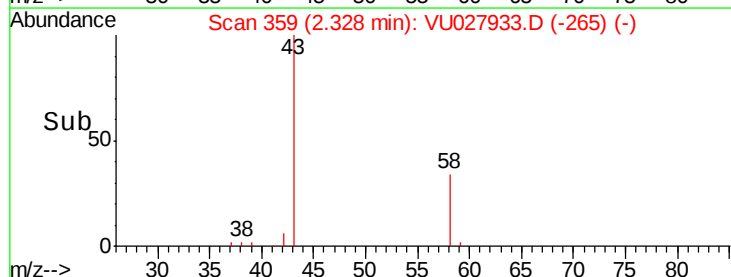
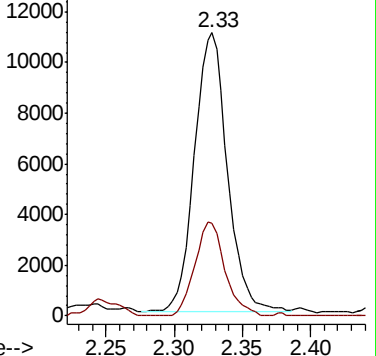
43 100

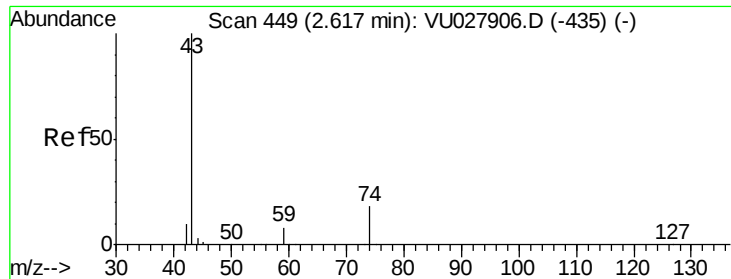
58 33.3 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

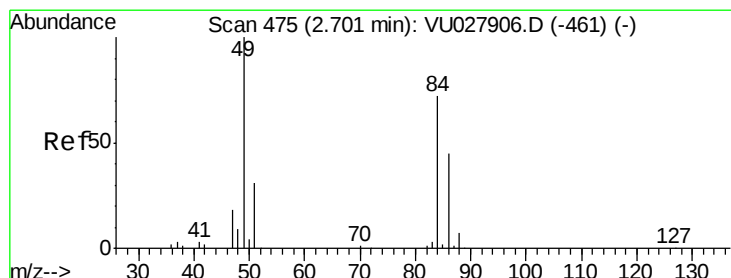
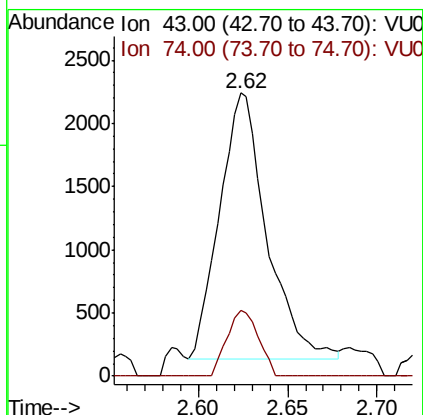
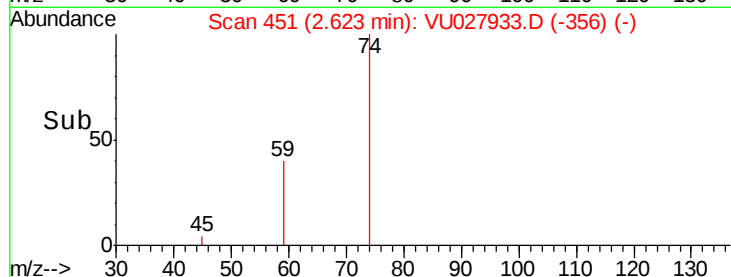
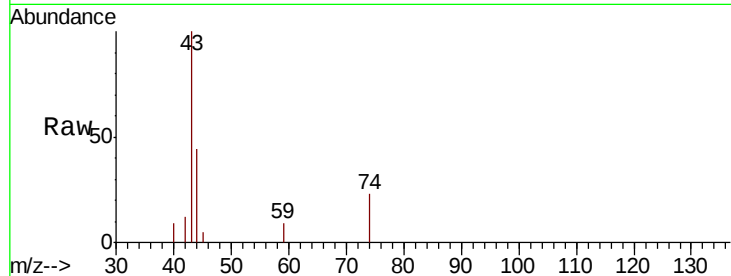




#18  
Methyl Acetate  
Concen: 0.803 ug/l  
RT: 2.62 min Scan# 451  
Delta R.T. 0.01 min  
Lab File: VU027933.D  
Acq: 02 Nov 2018 17:59

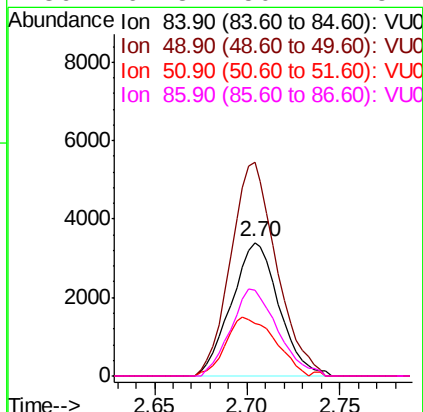
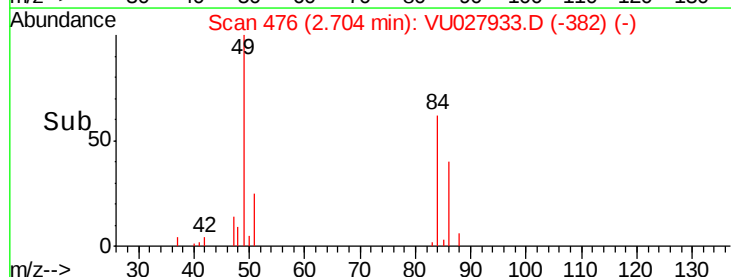
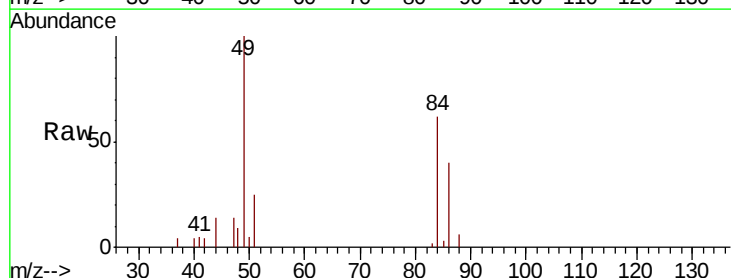
Instrument :  
MSVOA\_U  
ClientSampled :  
TP-2

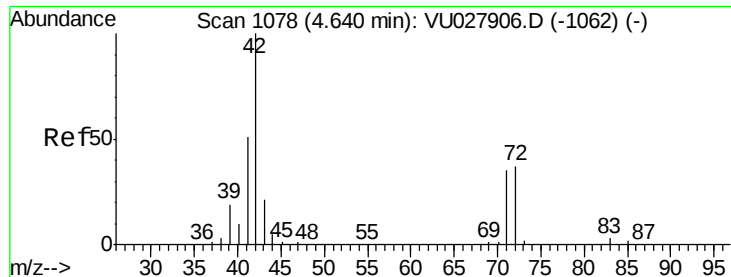
Tot Ion: 43 Resp: 3863  
Ion Ratio Lower Upper  
43 100  
74 16.4 14.9 22.3



#20  
Methylene Chloride  
Concen: 2.367 ug/l  
RT: 2.70 min Scan# 476  
Delta R.T. 0.00 min  
Lab File: VU027933.D  
Acq: 02 Nov 2018 17:59

Tgt Ion: 84 Resp: 6045  
Ion Ratio Lower Upper  
84 100  
49 160.4 111.6 167.4  
51 39.7 34.8 52.2  
86 64.8 50.1 75.1





#29

Tetrahydrofuran

Concen: 0.777 ug/l

RT: 4.67 min Scan# 1087

Delta R.T. 0.03 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

Instrument :

MSVOA\_U

ClientSampleId :

TP-2

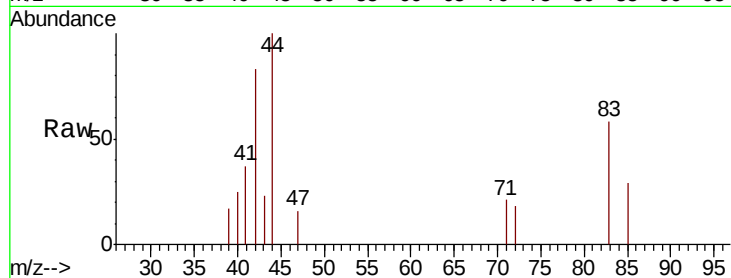
Tot Ion: 42 Resp: 1444

Ion Ratio Lower Upper

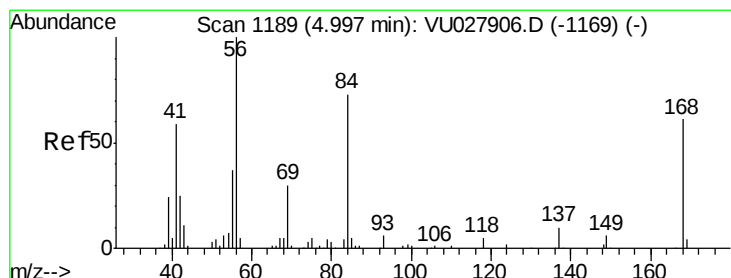
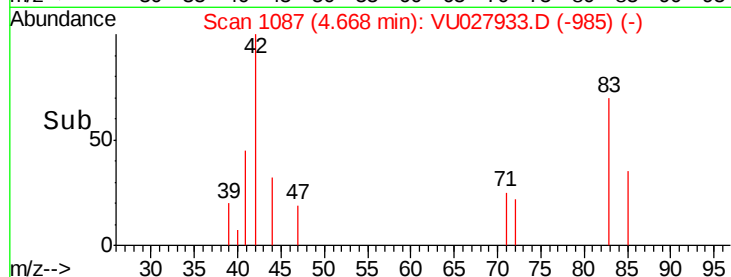
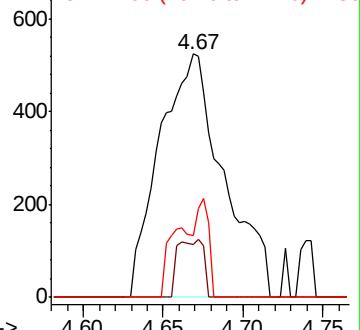
42 100

72 9.3 29.4 44.0#

71 7.5 27.9 41.9#



Abundance Ion 42.00 (41.70 to 42.70): VU027933.D (-985) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

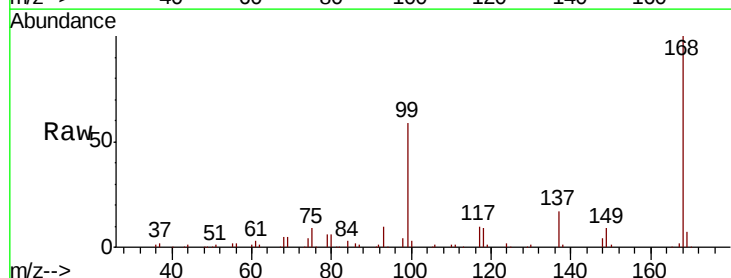
Tgt Ion: 56 Resp: 4628

Ion Ratio Lower Upper

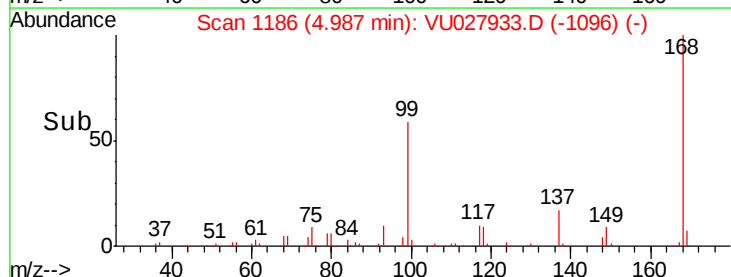
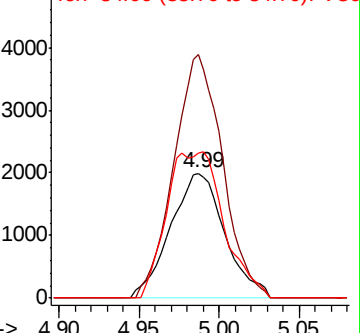
56 100

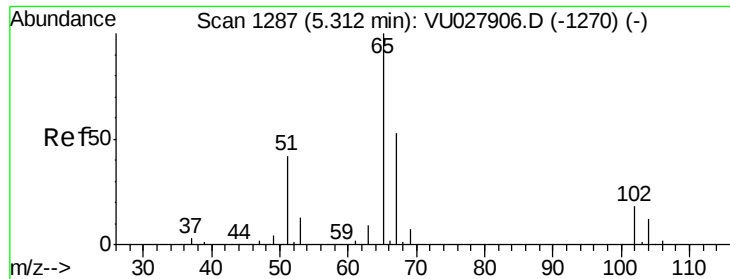
69 195.5 23.7 35.5#

84 116.6 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VU027933.D (-1096) (-)

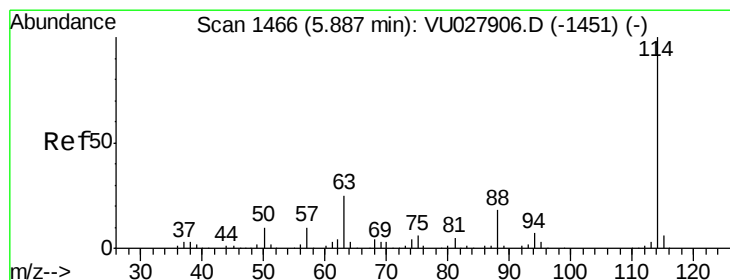
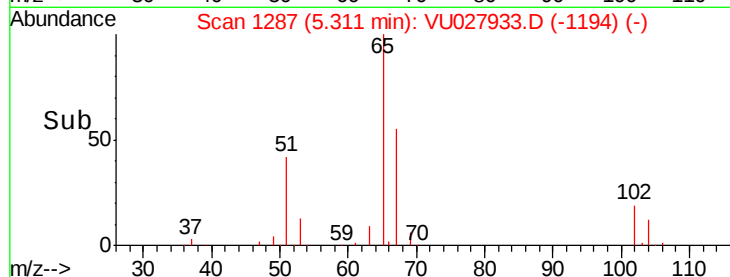
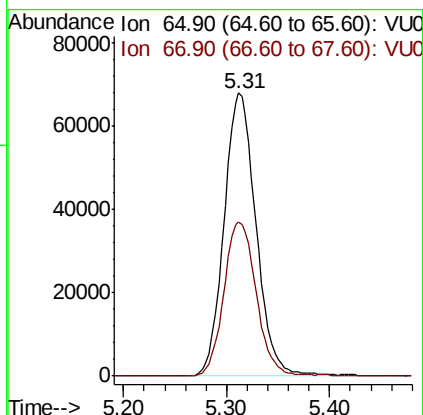
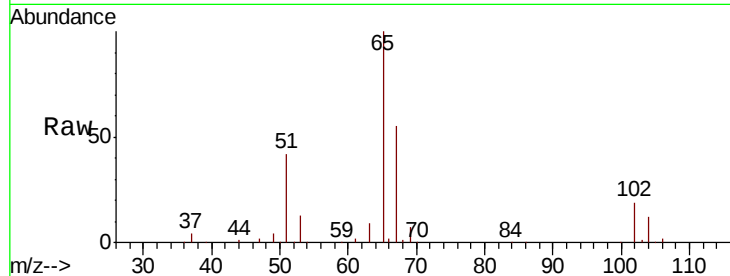




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.971 ug/l  
 RT: 5.31 min Scan# 1287  
 Delta R.T. -0.00 min  
 Lab File: VU027933.D  
 Acq: 02 Nov 2018 17:59

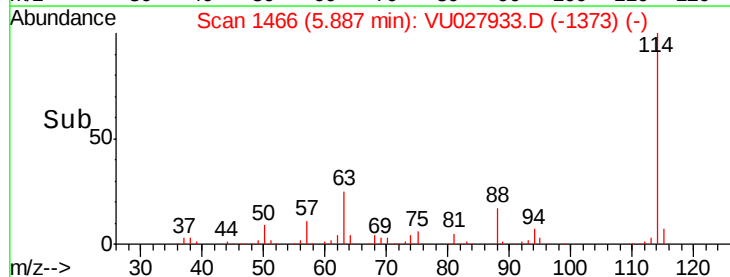
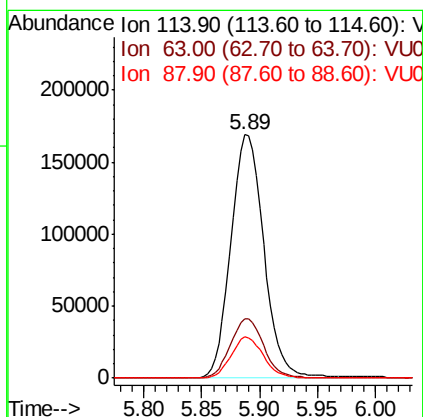
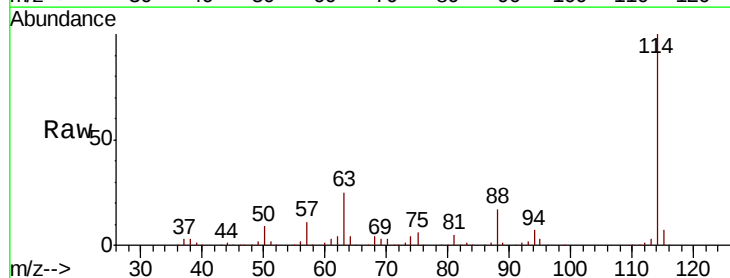
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 TP-2

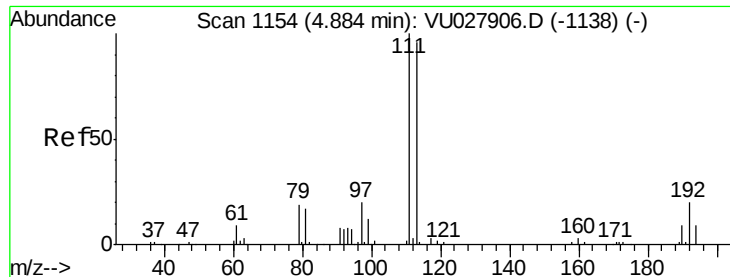
Tot Ion: 65 Resp: 146548  
 Ion Ratio Lower Upper  
 65 100  
 67 55.0 0.0 109.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1466  
 Delta R.T. -0.00 min  
 Lab File: VU027933.D  
 Acq: 02 Nov 2018 17:59

Tgt Ion: 114 Resp: 334165  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 0.0 50.8  
 88 17.0 0.0 35.8

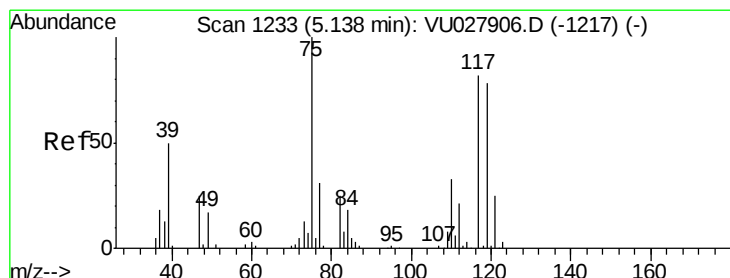
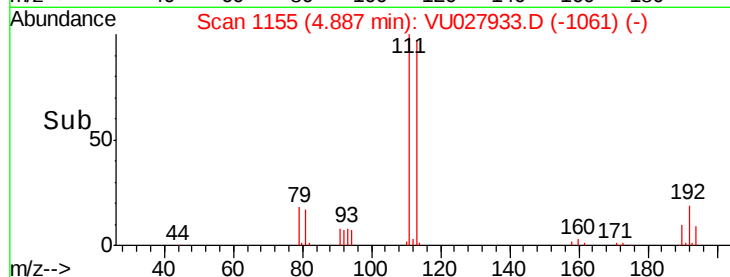
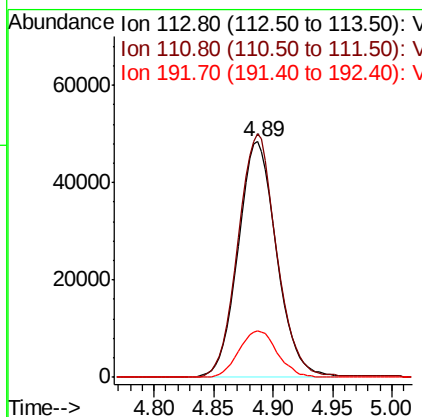
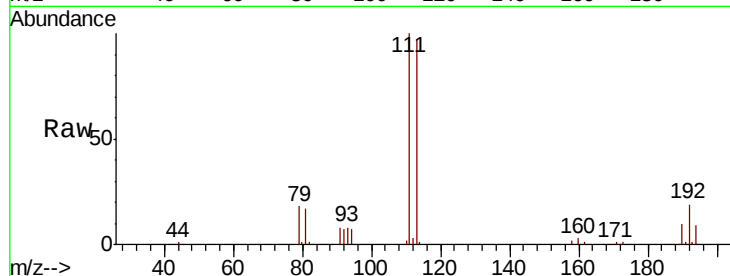




#35  
 Dibromofluoromethane  
 Concen: 51.522 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027933.D  
 Acq: 02 Nov 2018 17:59

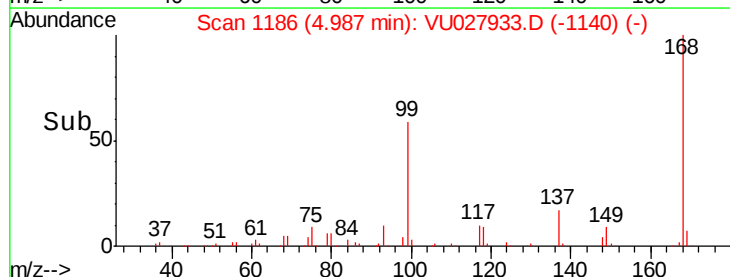
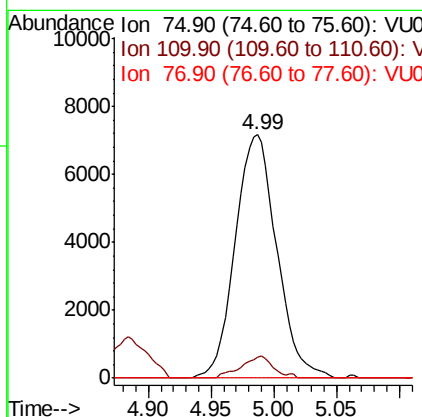
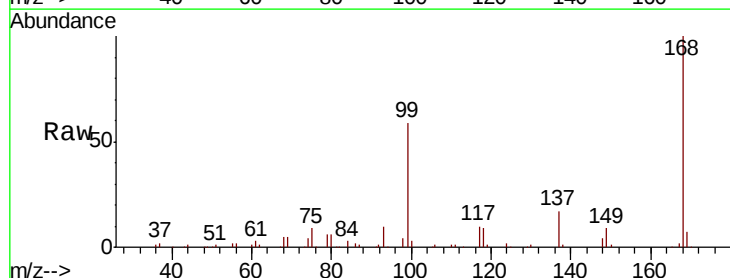
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 TP-2

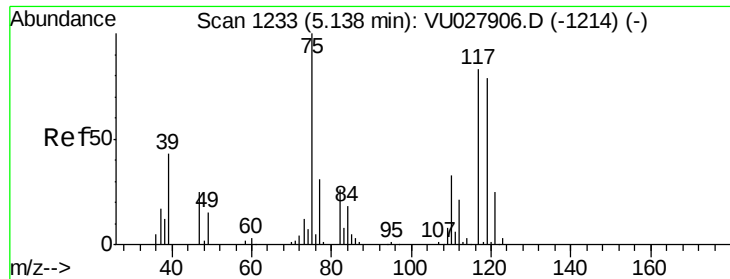
Tot Ion:113 Resp: 108555  
 Ion Ratio Lower Upper  
 113 100  
 111 103.5 83.0 124.6  
 192 19.7 15.6 23.4



#36  
 1,1-Dichloropropene  
 Concen: 4.726 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU027933.D  
 Acq: 02 Nov 2018 17:59

Tgt Ion: 75 Resp: 16539  
 Ion Ratio Lower Upper  
 75 100  
 110 7.1 16.5 49.5#  
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 5.923 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

Instrument :

MSVOA\_U

ClientSampleId :

TP-2

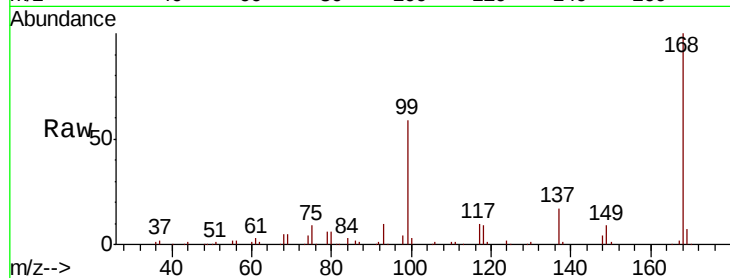
Tot Ion:117 Resp: 18370

Ion Ratio Lower Upper

117 100

119 5.8 76.0 114.0#

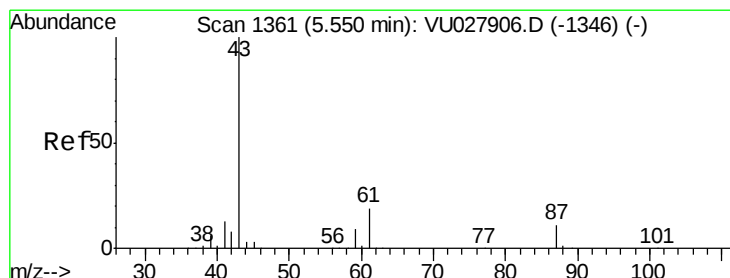
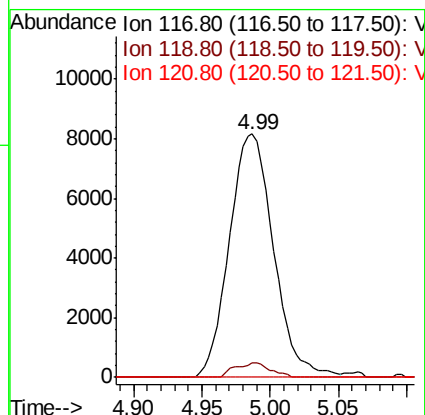
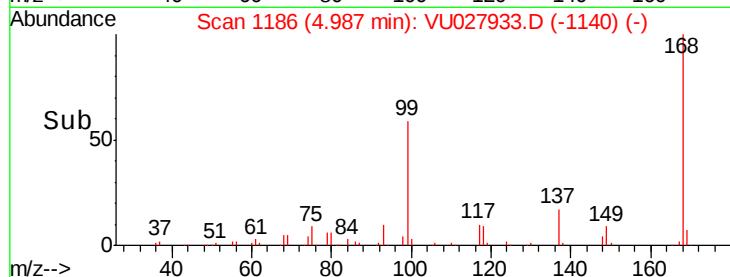
121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 22.198 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

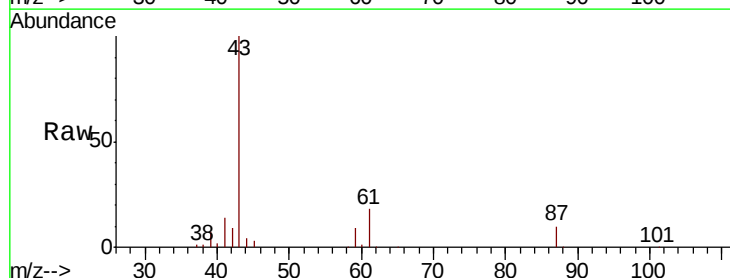
Tgt Ion: 43 Resp: 178337

Ion Ratio Lower Upper

43 100

61 18.7 15.0 22.4

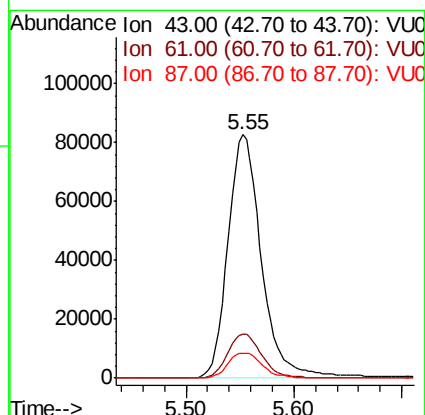
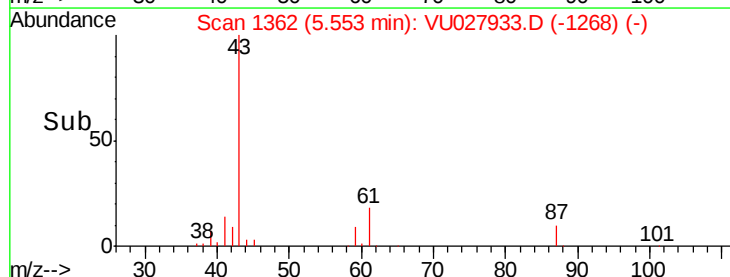
87 10.8 8.6 12.8

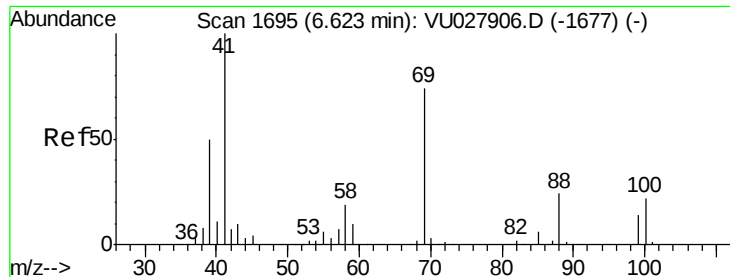


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

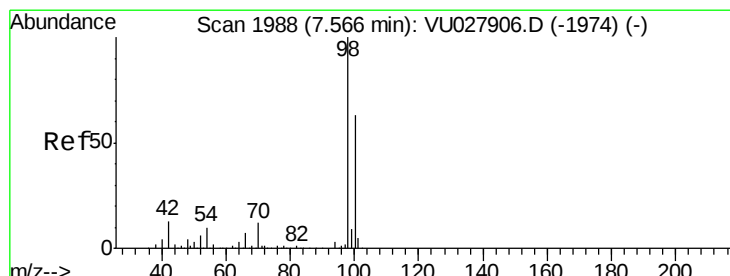
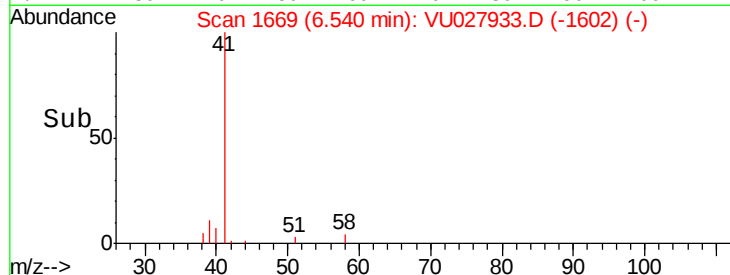
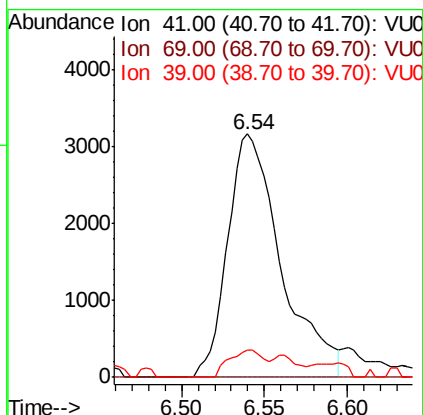
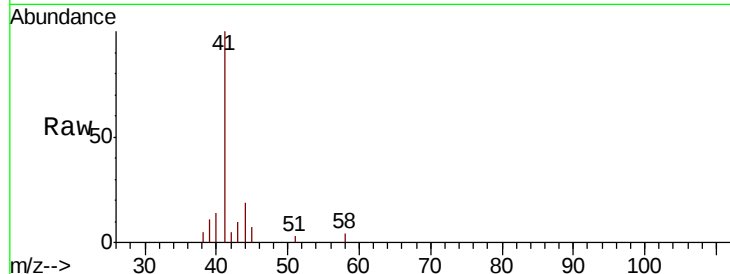




#48  
Methvl methacrvlate  
Concen: 1.803 ug/l  
RT: 6.54 min Scan# 1669  
Delta R.T. -0.08 min  
Lab File: VU027933.D  
Acq: 02 Nov 2018 17:59

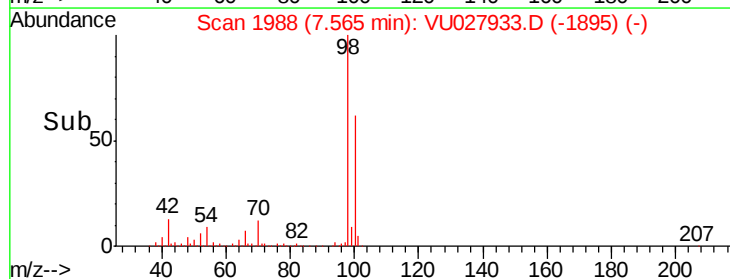
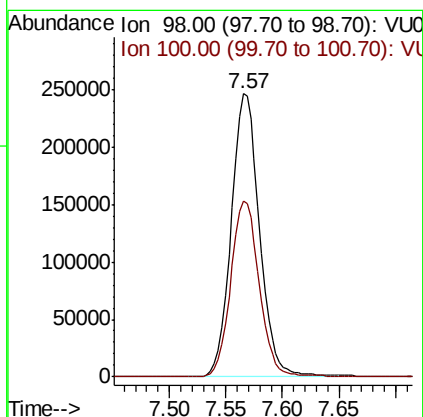
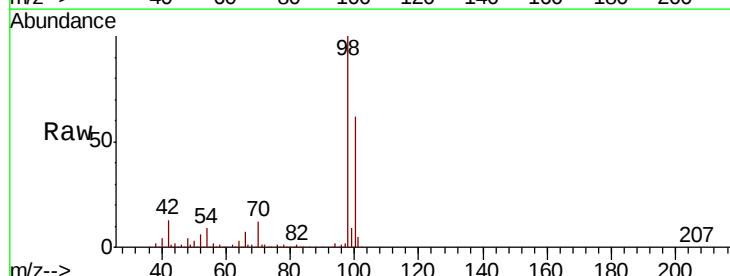
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-2

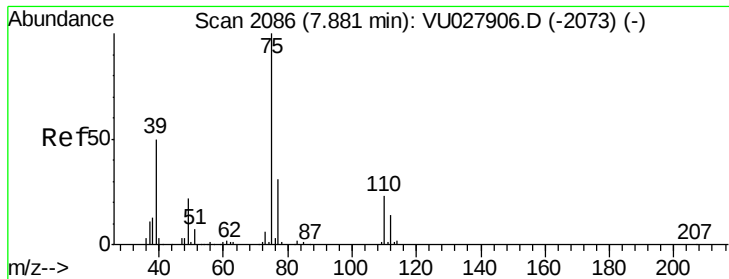
Tot Ion: 41 Resp: 7097  
Ion Ratio Lower Upper  
41 100  
69 0.0 59.8 89.8#  
39 7.3 40.0 60.0#



#50  
Toluene-d8  
Concen: 52.702 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: VU027933.D  
Acq: 02 Nov 2018 17:59

Tgt Ion: 98 Resp: 428943  
Ion Ratio Lower Upper  
98 100  
100 62.8 50.1 75.1





#53

t-1,3-Dichloropropene

Concen: 1.128 ug/l

RT: 7.59 min Scan# 1996

Delta R.T. -0.29 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

Instrument :

MSVOA\_U

ClientSampleId :

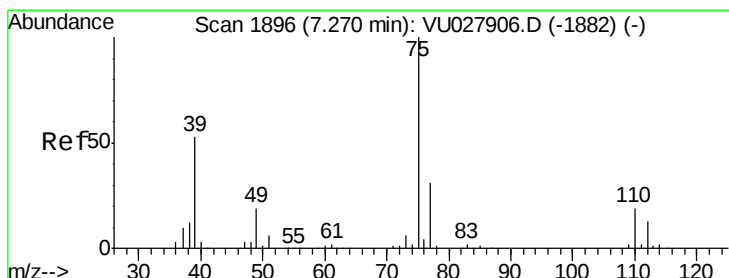
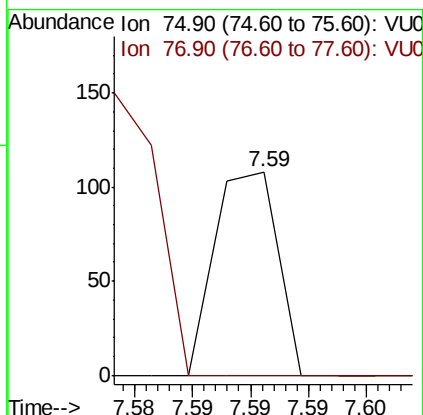
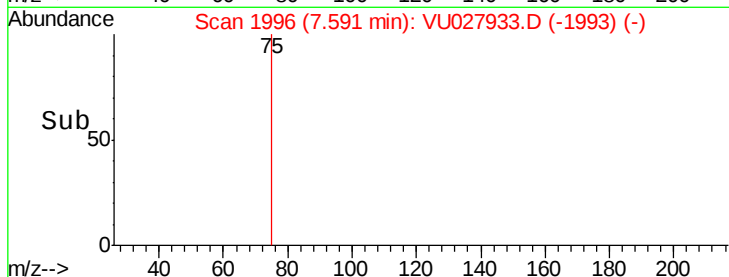
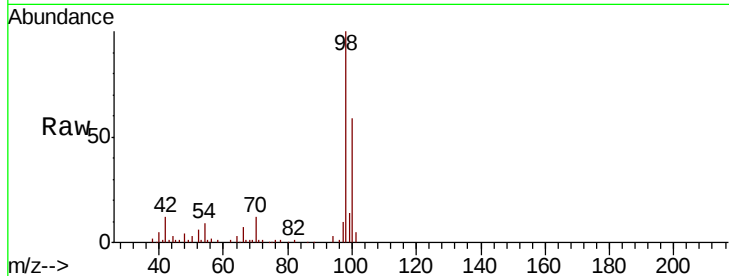
TP-2

Tot Ion: 75 Resp: 41

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#



#54

cis-1,3-Dichloropropene

Concen: 0.252 ug/l

RT: 7.42 min Scan# 1944

Delta R.T. 0.15 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

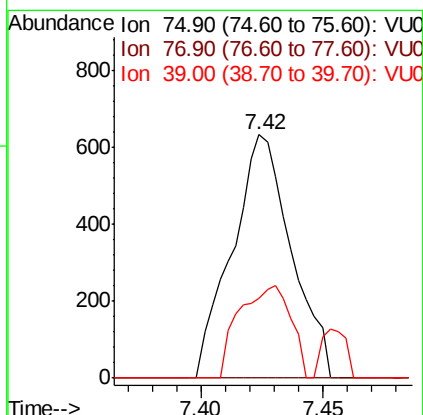
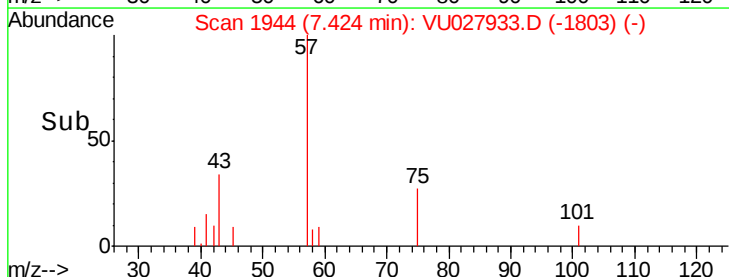
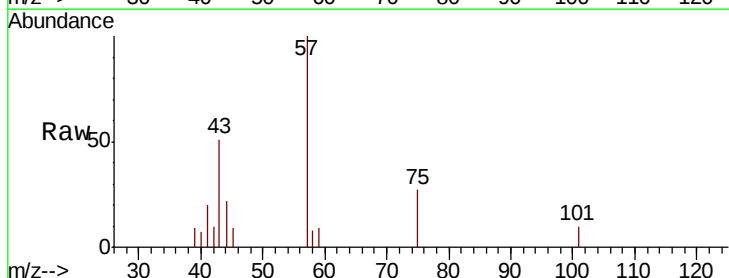
Tgt Ion: 75 Resp: 1062

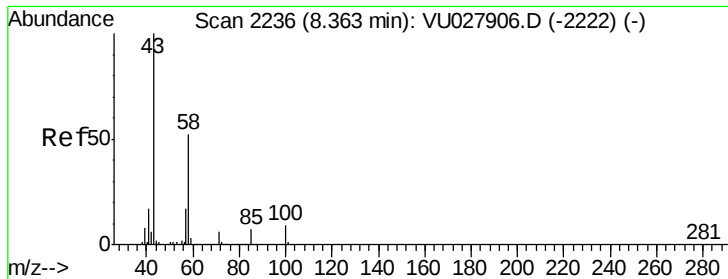
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 32.7 42.6 64.0#

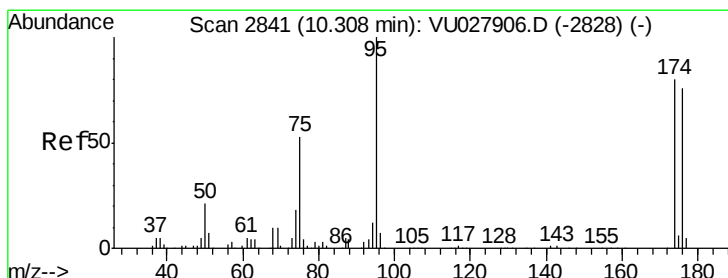
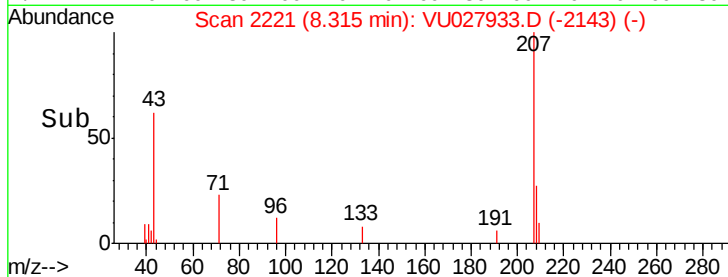
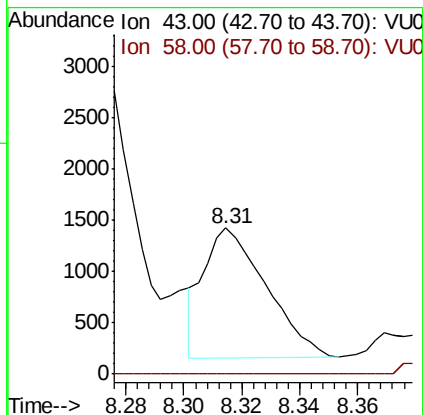
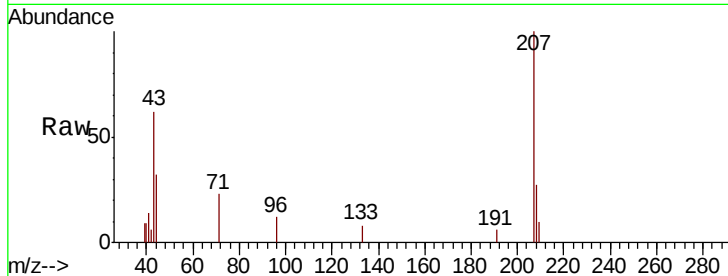




#59  
2-Hexanone  
Concen: 0.453 ug/l  
RT: 8.31 min Scan# 2221  
Delta R.T. -0.05 min  
Lab File: VU027933.D  
Acq: 02 Nov 2018 17:59

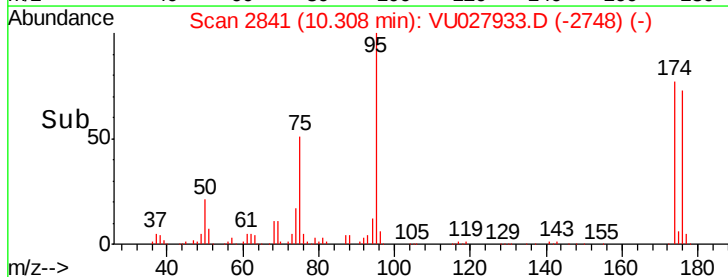
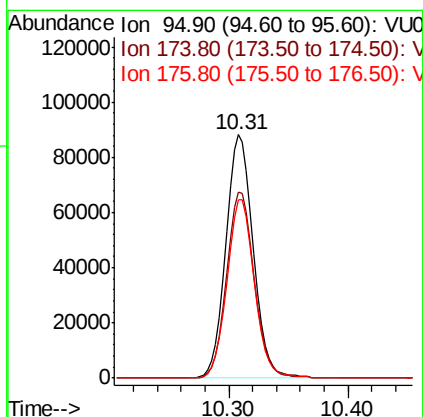
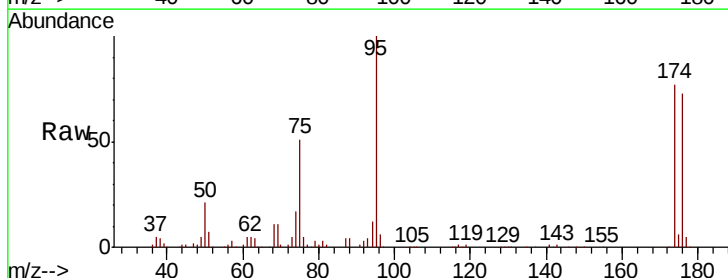
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-2

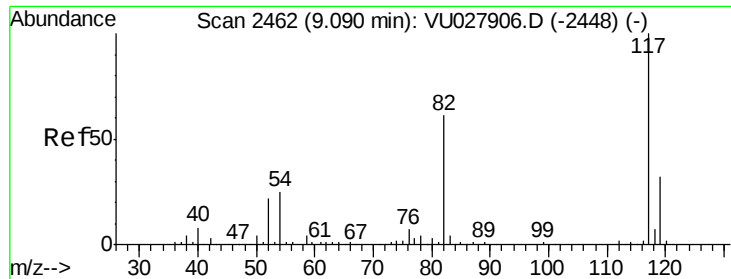
Tot Ion: 43 Resp: 1879  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.8 77.3#



#62  
4-Bromofluorobenzene  
Concen: 46.804 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. -0.00 min  
Lab File: VU027933.D  
Acq: 02 Nov 2018 17:59

Tgt Ion: 95 Resp: 140506  
Ion Ratio Lower Upper  
95 100  
174 77.4 0.0 156.4  
176 73.9 0.0 150.8

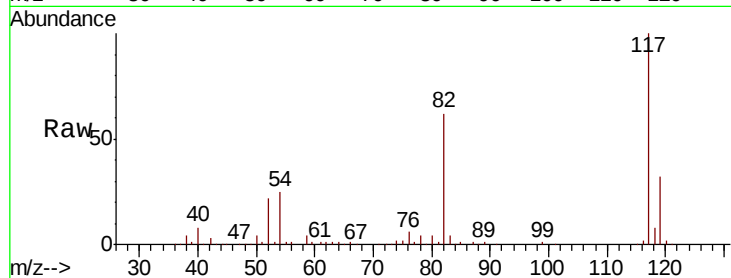




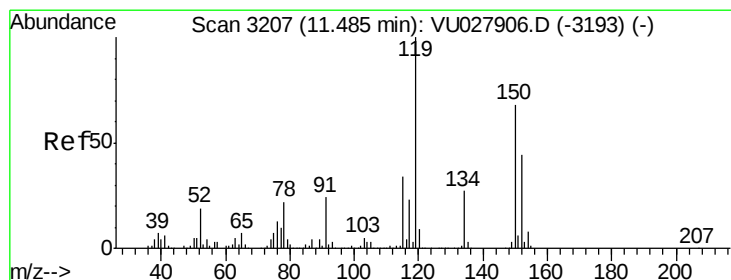
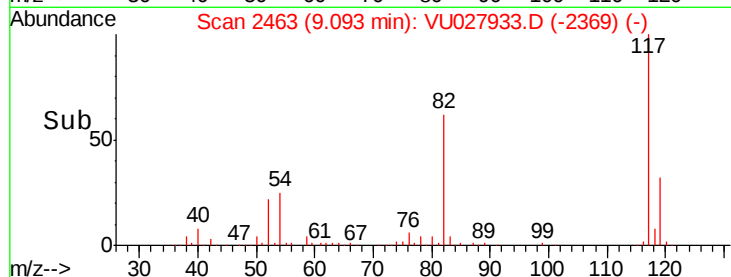
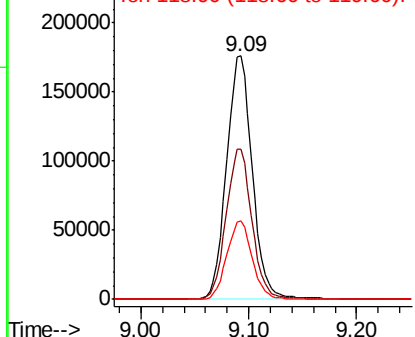
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027933.D  
Acq: 02 Nov 2018 17:59

Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 61.5  | 48.6  | 73.0  |
| 119     | 32.3  | 25.8  | 38.8  |

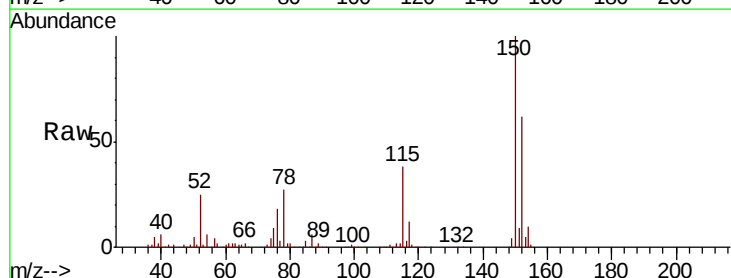


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU027933.D (-2369) (-)  
Ion 118.90 (118.60 to 119.60): V

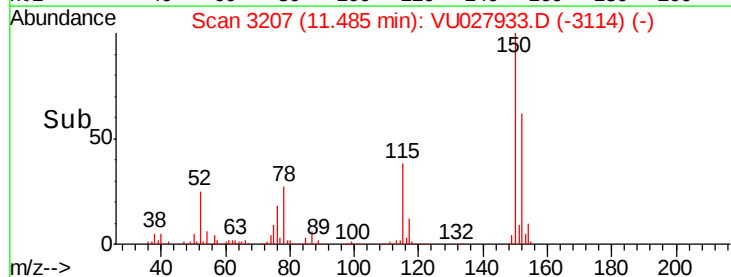
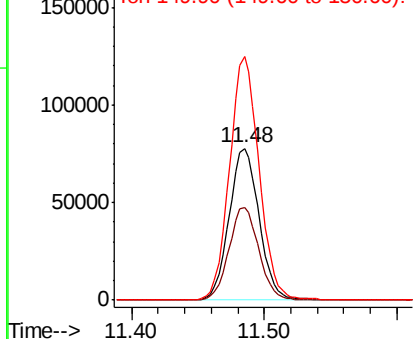


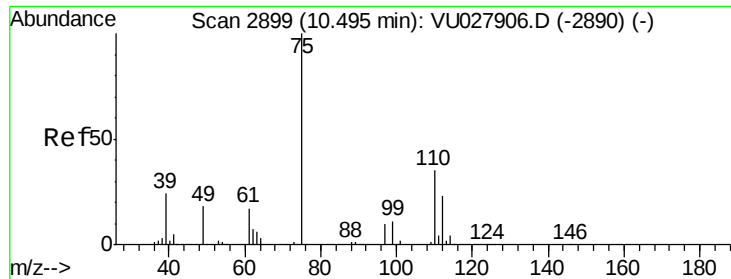
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: VU027933.D  
Acq: 02 Nov 2018 17:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 61.3  | 43.0  | 129.0 |
| 150     | 158.4 | 0.0   | 349.4 |



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): VU027933.D (-3114) (-)  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.552 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

Instrument :

MSVOA\_U

ClientSampled :

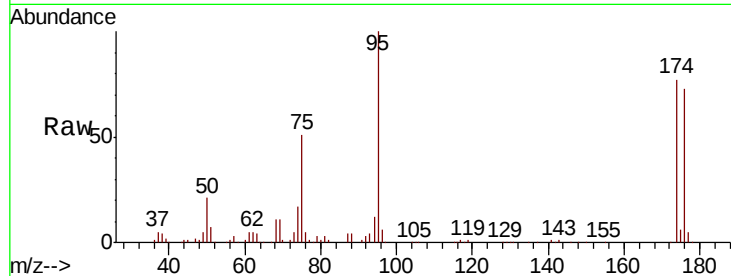
TP-2

Tot Ion: 75 Resp: 71971

Ion Ratio Lower Upper

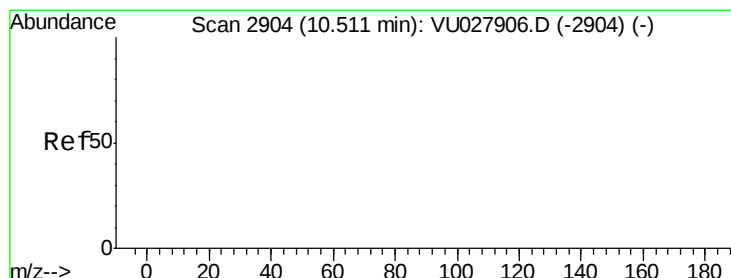
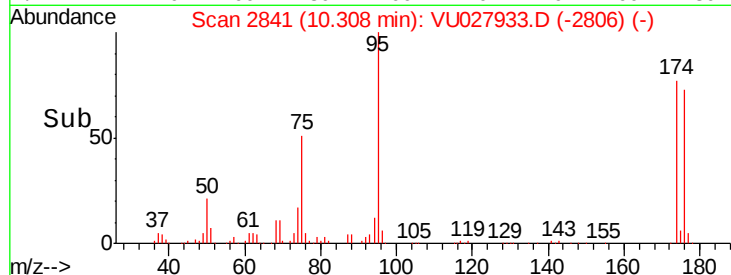
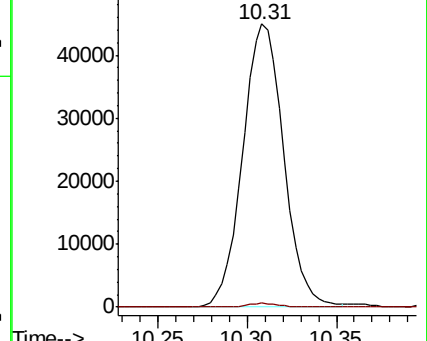
75 100

77 1.1 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 53.791 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

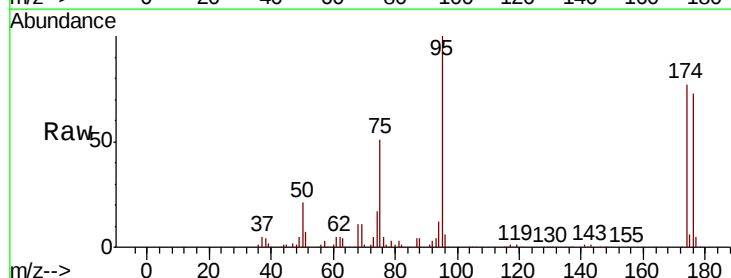
Tgt Ion: 75 Resp: 71971

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

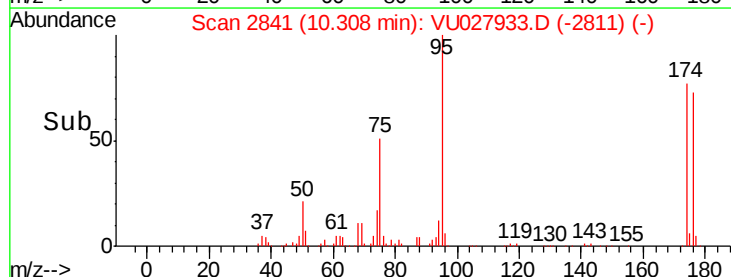
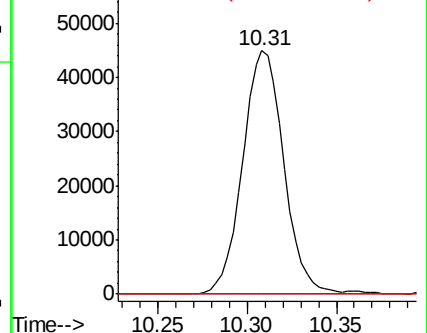
89 0.0 0.0 0.0

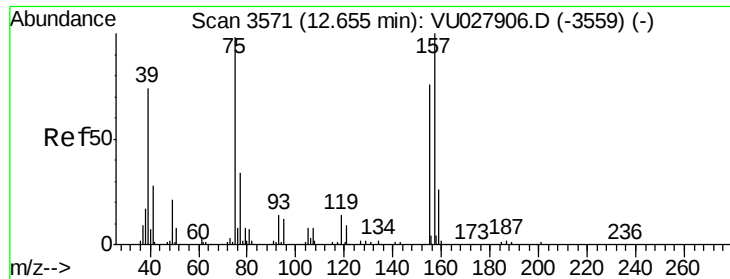


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.363 ug/l

RT: 12.49 min Scan# 3519

Delta R.T. -0.17 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

Instrument :

MSVOA\_U

ClientSampleId :

TP-2

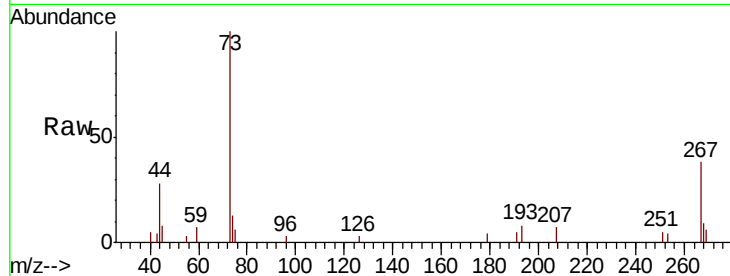
Tot Ion: 75 Resp: 292

Ion Ratio Lower Upper

75 100

155 0.0 39.8 119.3#

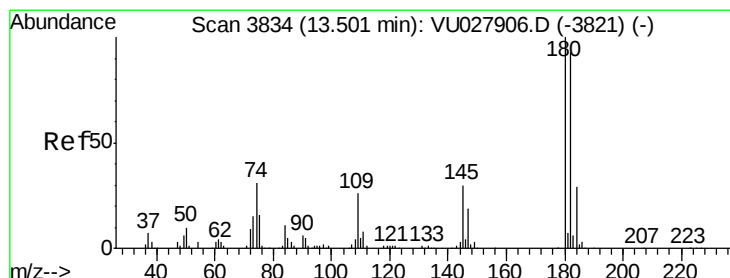
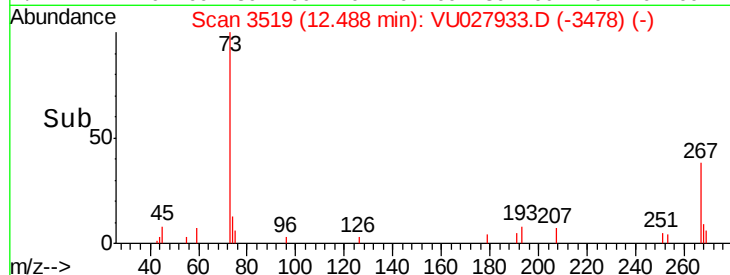
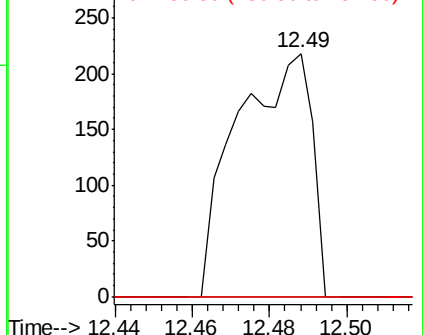
157 0.0 50.6 151.9#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 0.706 ug/l

RT: 13.51 min Scan# 3836

Delta R.T. 0.01 min

Lab File: VU027933.D

Acq: 02 Nov 2018 17:59

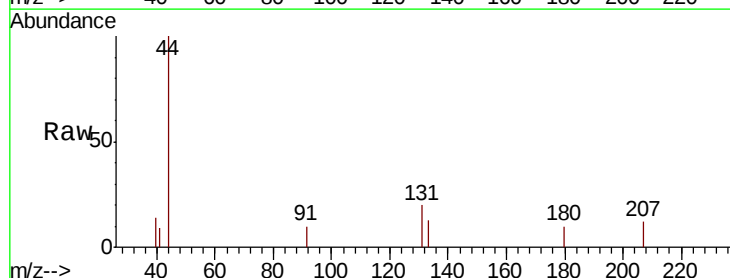
Tgt Ion: 180 Resp: 62

Ion Ratio Lower Upper

180 100

182 0.0 48.4 145.2#

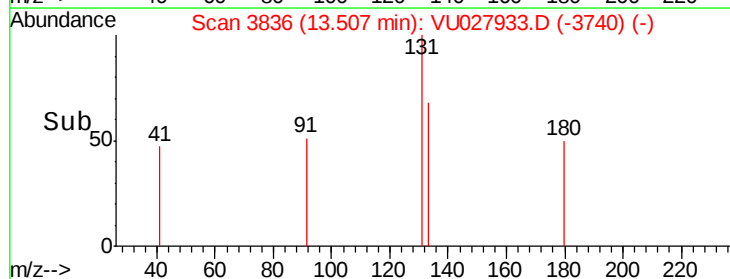
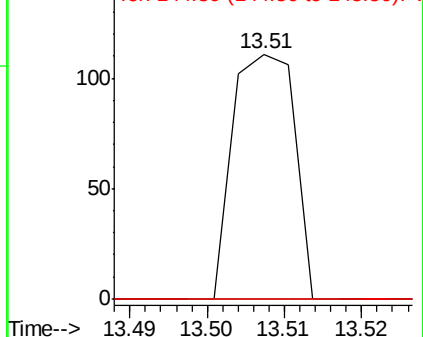
145 0.0 14.9 44.5#

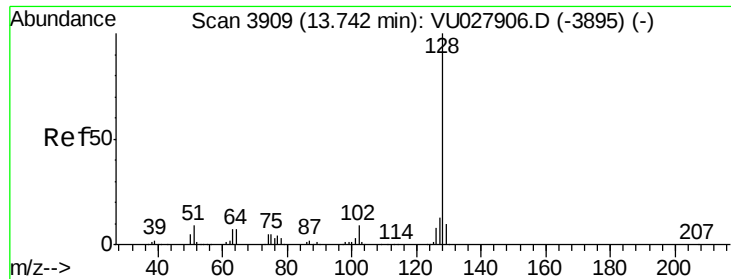


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95  
 Naphthalene  
 Concen: 3.748 ug/l  
 RT: 13.75 min Scan# 3910  
 Delta R.T. 0.00 min  
 Lab File: VU027933.D  
 Acq: 02 Nov 2018 17:59

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 TP-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.7  | 10.4  | 15.6  |
| 129     | 11.2  | 8.3   | 12.5  |

