

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\  
 Data File : VU029180.D  
 Acq On : 15 Jan 2019 13:05  
 Operator : JC/SP  
 Sample : PB116371ZHE#02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PB116371ZHE#02

Quant Time: Jan 16 04:33:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 12 01:33:59 2019  
 Response via : Initial Calibration

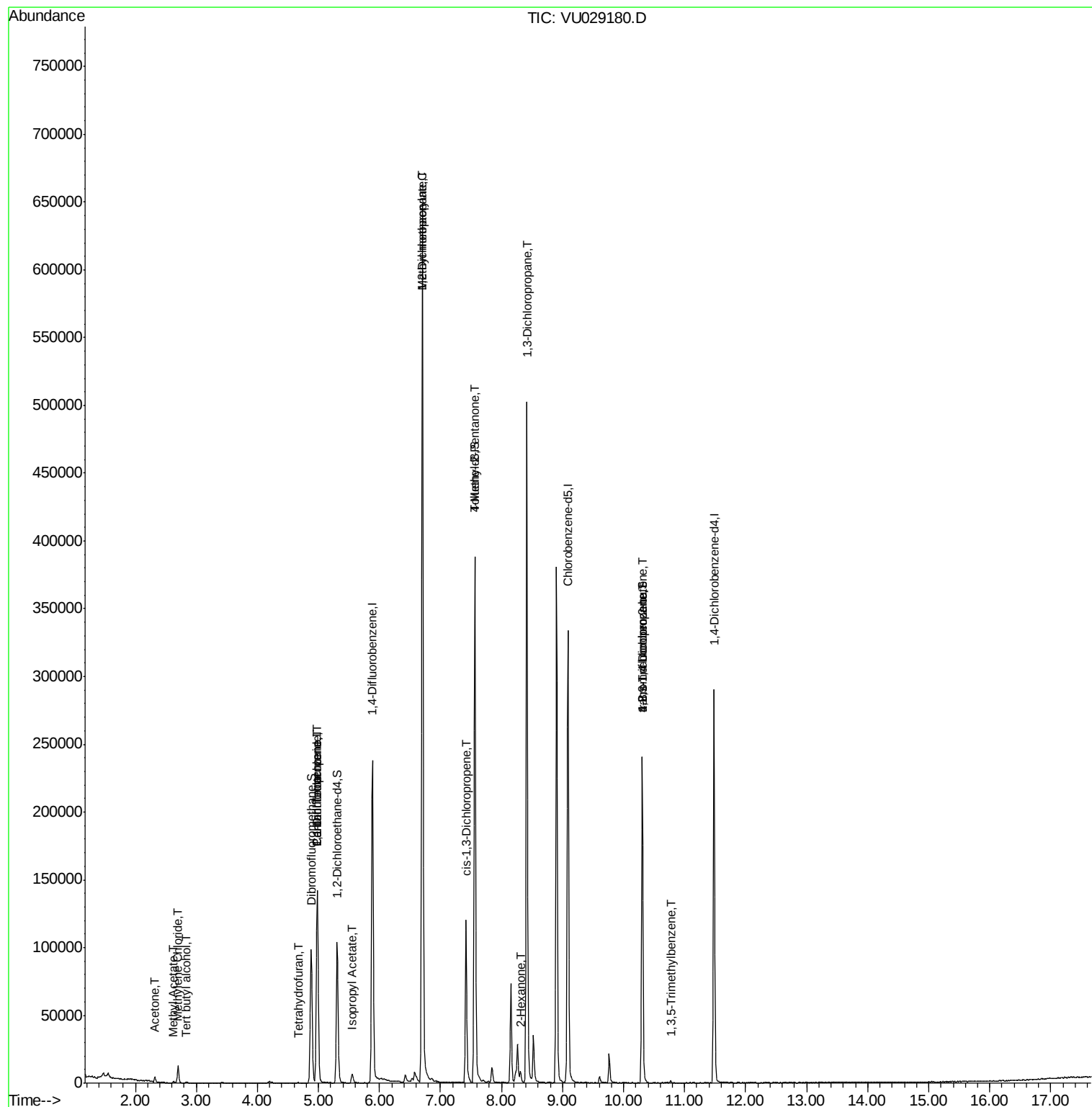
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 4.98  | 168  | 118192   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 5.88  | 114  | 205376   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 9.09  | 117  | 192878   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 11.48 | 152  | 77928    | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 5.31  | 65   | 79455    | 54.38     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 108.76% |          |
| 35) Dibromofluoromethane       | 4.88  | 113  | 69689    | 52.35     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.70% |          |
| 50) Toluene-d8                 | 7.56  | 98   | 266475   | 50.70     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 101.40% |          |
| 62) 4-Bromofluorobenzene       | 10.30 | 95   | 84537    | 44.76     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 89.52%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 3) Chloromethane               | 1.33  | 50   | 1016     | Below Cal |         | 97       |
| 5) Bromomethane                | 1.63  | 94   | 85       | Below Cal | #       | 2        |
| 11) Tert butyl alcohol         | 2.84  | 59   | 607      | 1.634     | ug/l #  | 73       |
| 16) Acetone                    | 2.32  | 43   | 4551     | 4.944     | ug/l    | 97       |
| 17) Carbon Disulfide           | 2.48  | 76   | 256      | Below Cal | #       | 75       |
| 18) Methyl Acetate             | 2.62  | 43   | 1537     | 0.718     | ug/l    | 96       |
| 20) Methylene Chloride         | 2.70  | 84   | 5975     | 3.823     | ug/l    | 94       |
| 29) Tetrahydrofuran            | 4.66  | 42   | 163      | 0.216     | ug/l #  | 30       |
| 31) Cyclohexane                | 4.98  | 56   | 1974     | Below Cal | #       | 1        |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 8684     | 4.230     | ug/l #  | 47       |
| 38) Carbon Tetrachloride       | 4.98  | 117  | 10388    | 6.067     | ug/l #  | 18       |
| 43) Isopropyl Acetate          | 5.56  | 43   | 8166     | 2.362     | ug/l    | 98       |
| 45) 1,2-Dichloropropane        | 6.71  | 63   | 677      | 0.400     | ug/l #  | 43       |
| 48) Methyl methacrylate        | 6.70  | 41   | 53660    | 31.882    | ug/l #  | 36       |
| 51) 4-Methyl-2-Pentanone       | 7.56  | 43   | 4475     | 1.902     | ug/l    | 96       |
| 54) cis-1,3-Dichloropropene    | 7.42  | 75   | 22779    | 8.817     | ug/l #  | 59       |
| 57) 1,3-Dichloropropane        | 8.41  | 76   | 5001     | 1.872     | ug/l #  | 42       |
| 59) 2-Hexanone                 | 8.31  | 43   | 7525     | 4.075     | ug/l #  | 21       |
| 76) 1,2,3-Trichloropropane     | 10.30 | 75   | 40139    | 21.022    | ug/l #  | 36       |
| 80) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 1308     | 0.272     | ug/l    | 79       |
| 81) trans-1,4-Dichloro-2-buten | 10.30 | 75   | 40139    | 54.217    | ug/l #  | 100      |

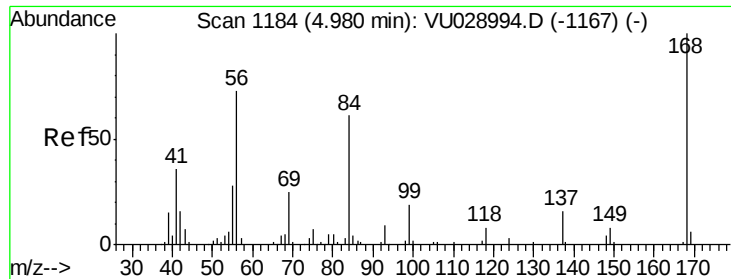
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jan 12 01:33:59 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Instrument :

MSVOA\_U

ClientSampleId :

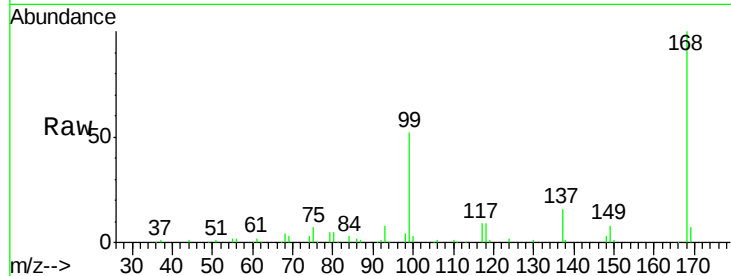
PB116371ZHE#02

Tot Ion:168 Resp: 118192

Ion Ratio Lower Upper

168 100

99 51.9 42.0 63.0

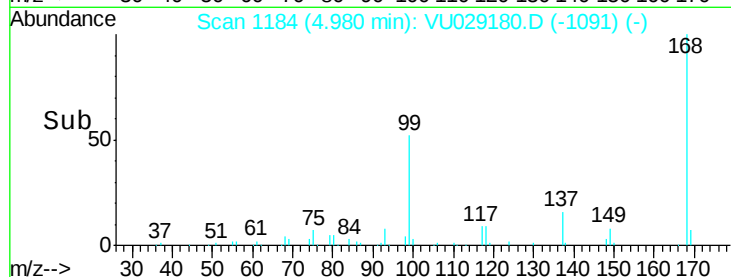


Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

Time-->



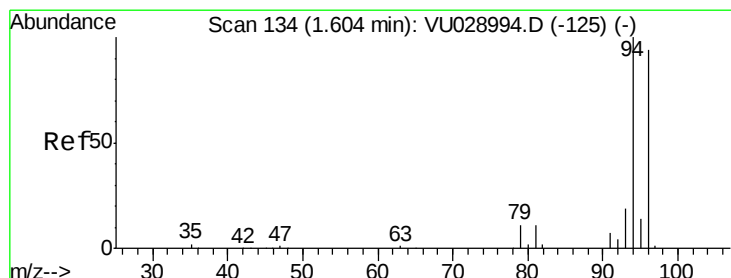
Abundance

Ion 167.90 (167.60 to 168.60): VU029180.D (-1091) (-)

Ion 98.90 (98.60 to 99.60): VU029180.D (-1091) (-)

4.98

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 142

Delta R.T. 0.03 min

Lab File: VU029180.D

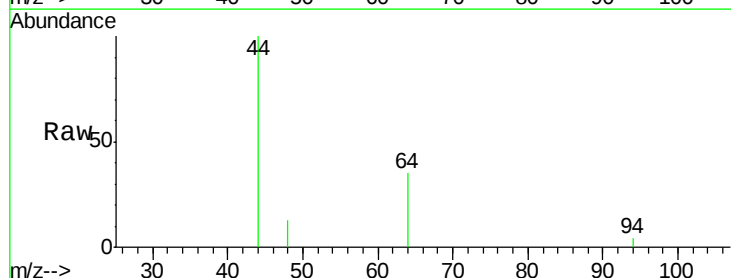
Acq: 15 Jan 2019 13:05

Tgt Ion: 94 Resp: 85

Ion Ratio Lower Upper

94 100

96 0.0 75.5 113.3#

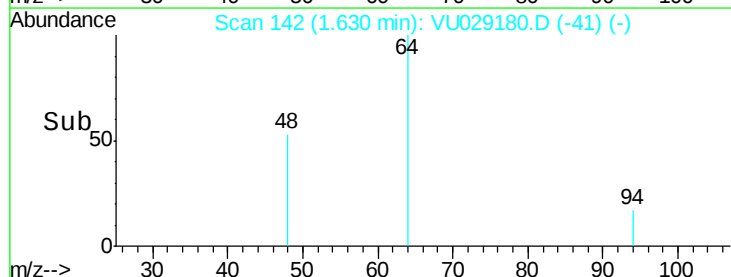


Abundance Ion 93.90 (93.60 to 94.60): VU028994.D (-125) (-)

Ion 95.90 (95.60 to 96.60): VU028994.D (-125) (-)

1.63

Time-->



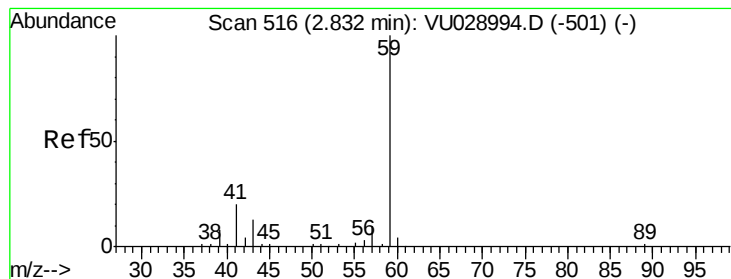
Abundance

Ion 93.90 (93.60 to 94.60): VU029180.D (-41) (-)

Ion 95.90 (95.60 to 96.60): VU029180.D (-41) (-)

1.63

Time-->

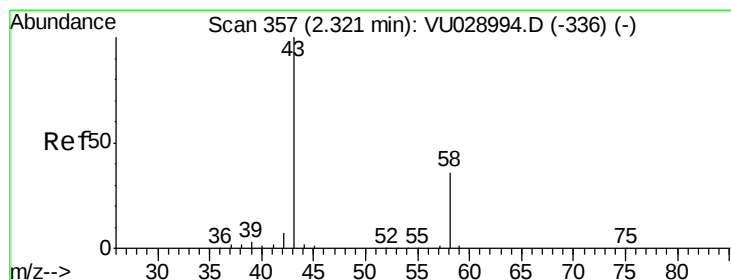
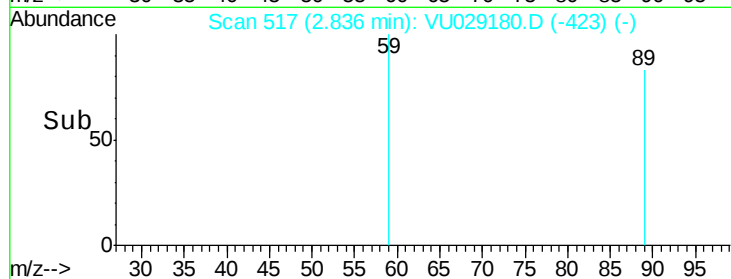
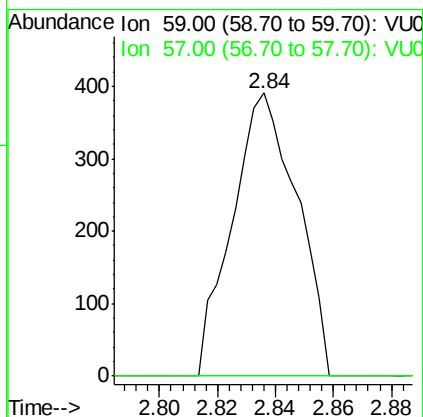
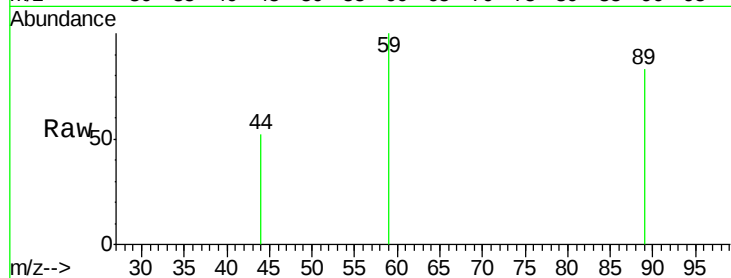


#11

Tert butyl alcohol  
 Concen: 1.634 ug/l  
 RT: 2.84 min Scan# 517  
 Delta R.T. 0.00 min  
 Lab File: VU029180.D  
 Acq: 15 Jan 2019 13:05

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PB116371ZHE#02

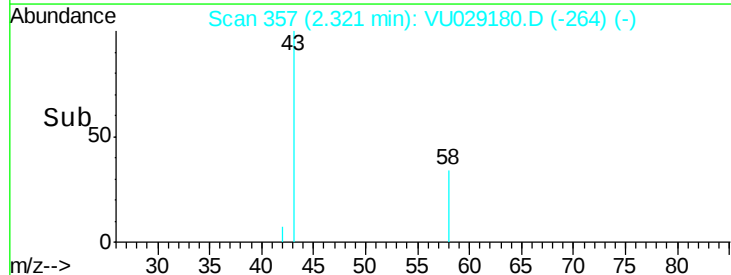
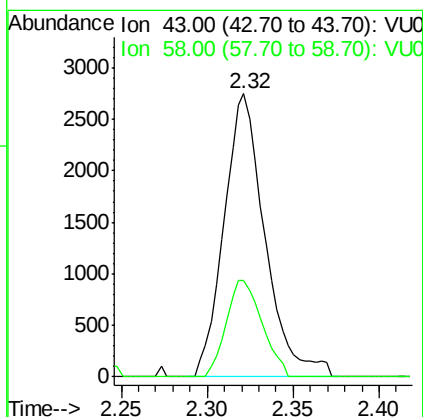
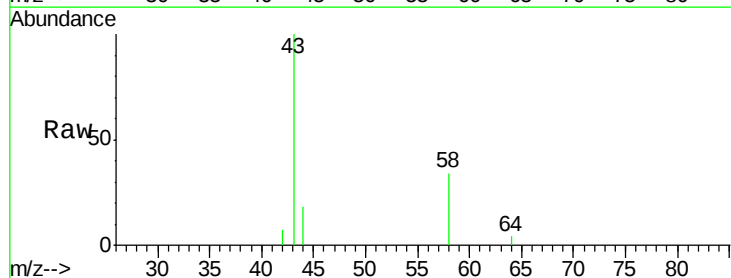
Tot Ion: 59 Resp: 607  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.9 11.9#

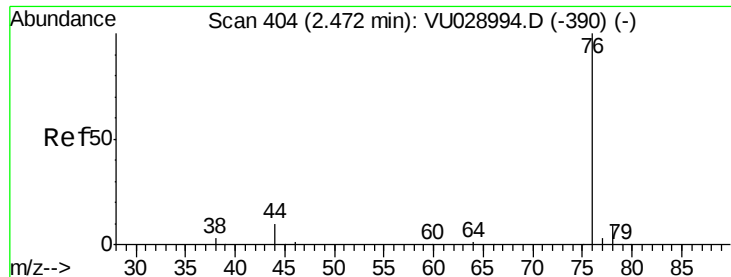


#16

Acetone  
 Concen: 4.944 ug/l  
 RT: 2.32 min Scan# 357  
 Delta R.T. 0.00 min  
 Lab File: VU029180.D  
 Acq: 15 Jan 2019 13:05

Tgt Ion: 43 Resp: 4551  
 Ion Ratio Lower Upper  
 43 100  
 58 34.0 28.6 42.8





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 406

Delta R.T. 0.01 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Instrument :

MSVOA\_U

ClientSampleId :

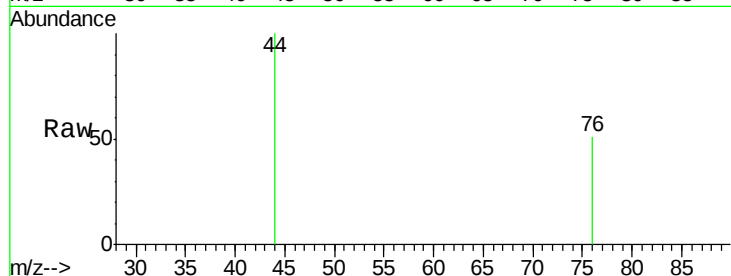
PB116371ZHE#02

Tot Ion: 76 Resp: 256

Ion Ratio Lower Upper

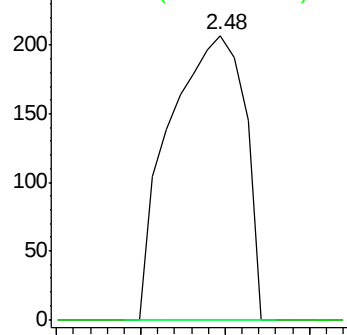
76 100

78 0.0 7.2 10.8#

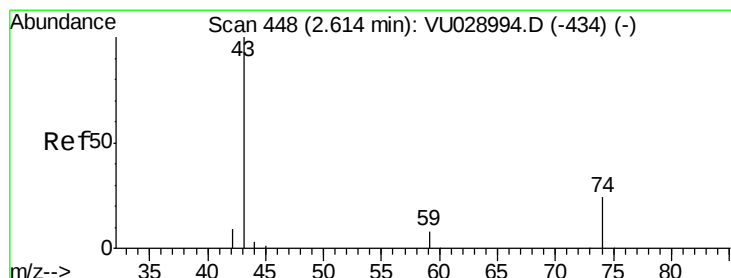
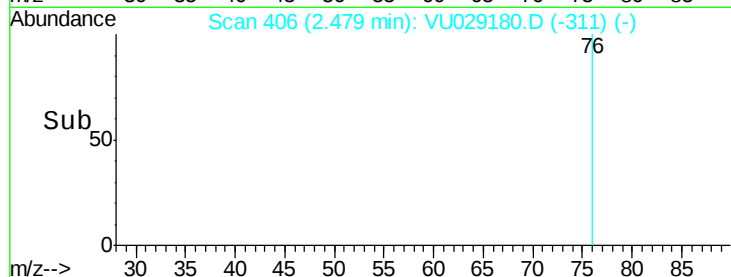


Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



Time--> 2.44 2.46 2.48 2.50



#18

Methyl Acetate

Concen: 0.718 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU029180.D

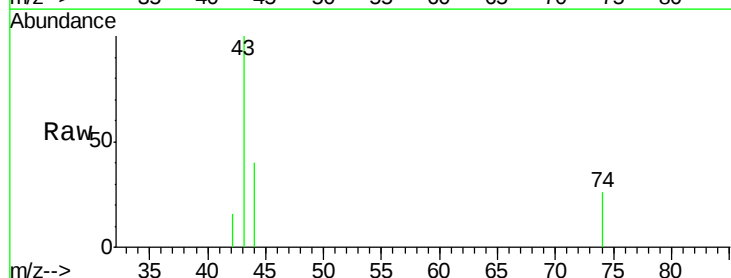
Acq: 15 Jan 2019 13:05

Tgt Ion: 43 Resp: 1537

Ion Ratio Lower Upper

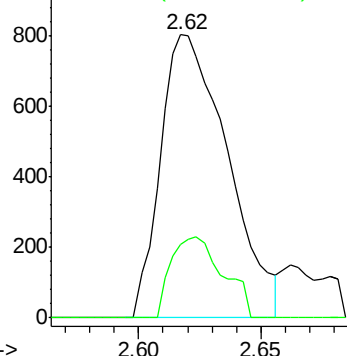
43 100

74 22.3 19.5 29.3

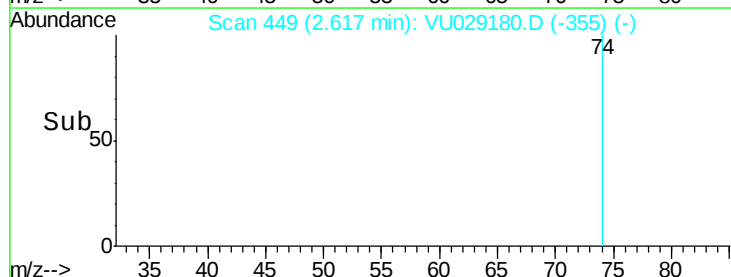


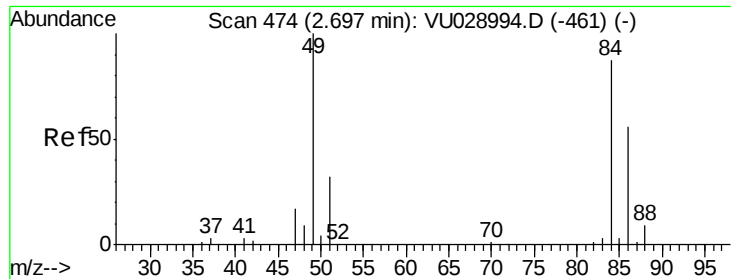
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



Time--> 2.60 2.65

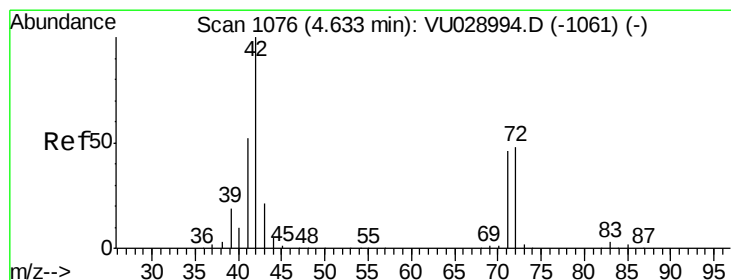
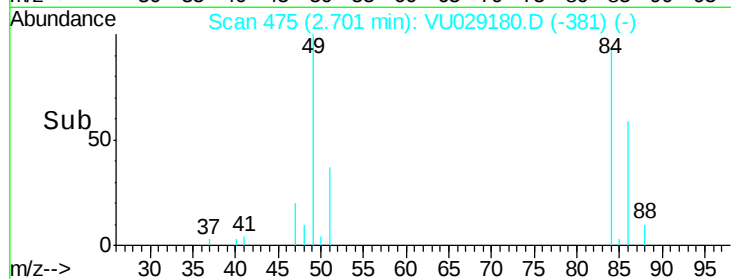
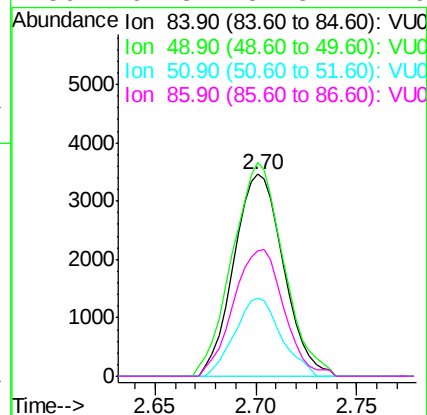
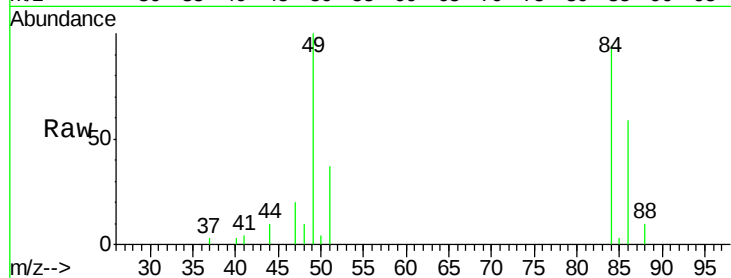




#20  
Methvlene Chloride  
Concen: 3.823 ug/l  
RT: 2.70 min Scan# 475  
Delta R.T. 0.00 min  
Lab File: VU029180.D  
Acq: 15 Jan 2019 13:05

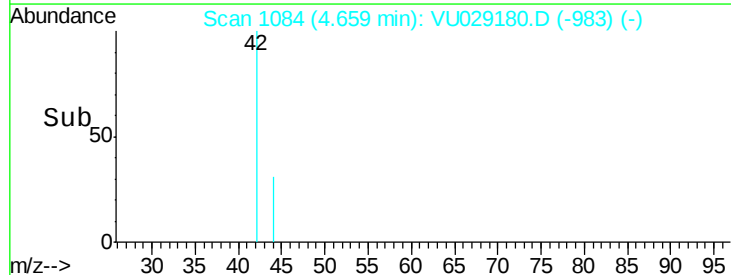
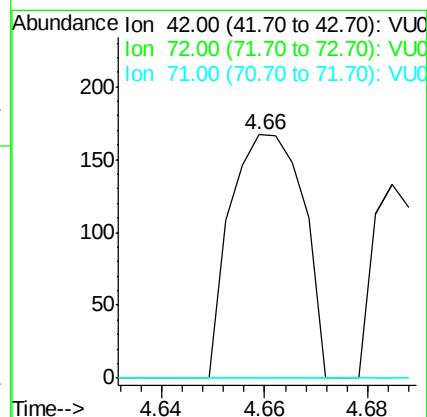
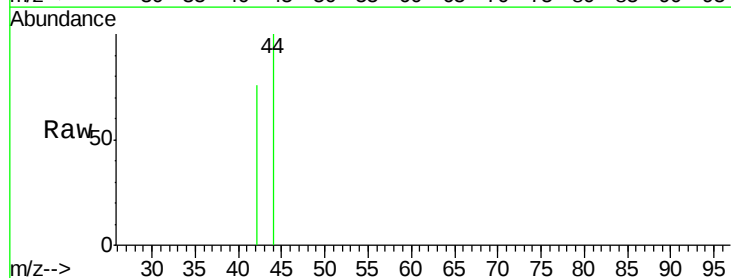
Instrument :  
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PB116371ZHE#02

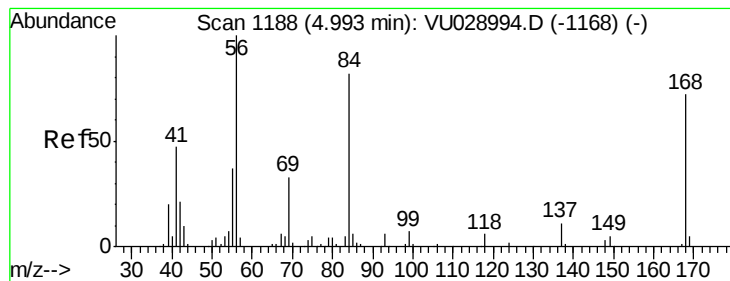
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 5975  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 105.9 | 91.9  | 137.9 |
| 51       | 39.0  | 29.2  | 43.8  |
| 86       | 62.3  | 51.8  | 77.6  |



#29  
Tetrahydrofuran  
Concen: 0.216 ug/l  
RT: 4.66 min Scan# 1084  
Delta R.T. 0.03 min  
Lab File: VU029180.D  
Acq: 15 Jan 2019 13:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 163   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 38.3  | 57.5# |
| 71       | 0.0   | 36.1  | 54.1# |





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Instrument :  
MSVOA\_U  
ClientSampleId :  
PB116371ZHE#02

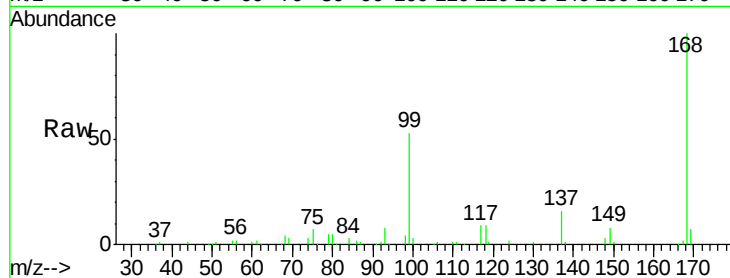
Tot Ion: 56 Resp: 1974

Ion Ratio Lower Upper

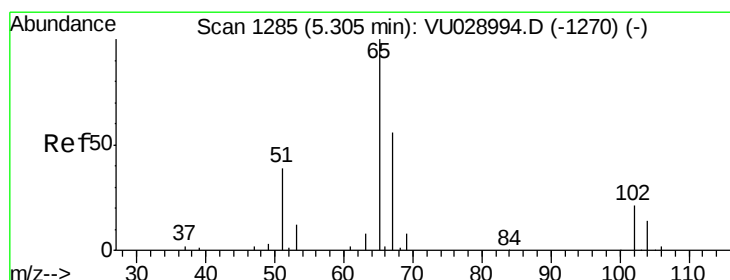
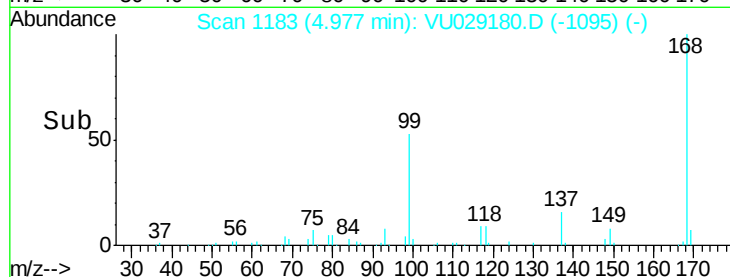
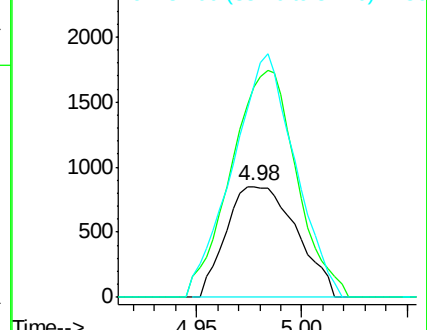
56 100

69 177.3 26.7 40.1#

84 191.0 65.7 98.5#



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



#33

1,2-Dichloroethane-d4

Concen: 54.381 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU029180.D

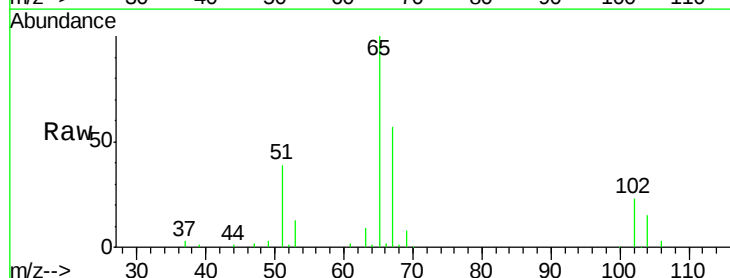
Acq: 15 Jan 2019 13:05

Tgt Ion: 65 Resp: 79455

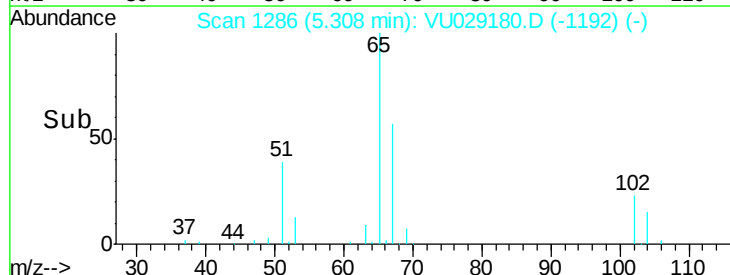
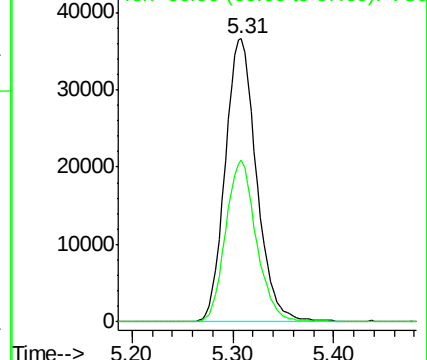
Ion Ratio Lower Upper

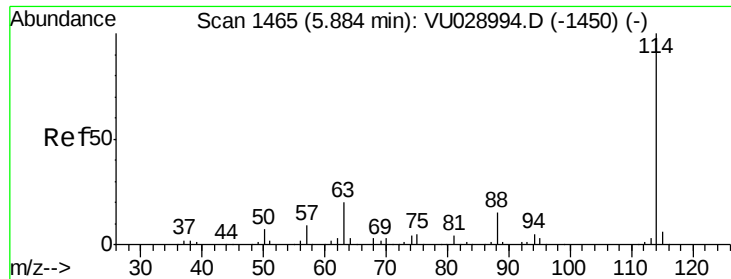
65 100

67 55.6 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU0  
Ion 66.90 (66.60 to 67.60): VU0

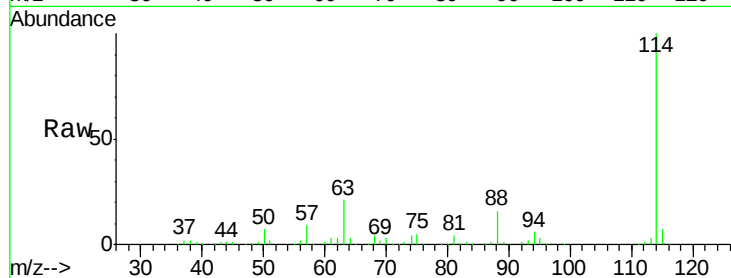




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.88 min Scan# 1465  
Delta R.T. 0.00 min  
Lab File: VU029180.D  
Acq: 15 Jan 2019 13:05

Instrument :  
MSVOA\_U  
ClientSampleId :  
PB116371ZHE#02

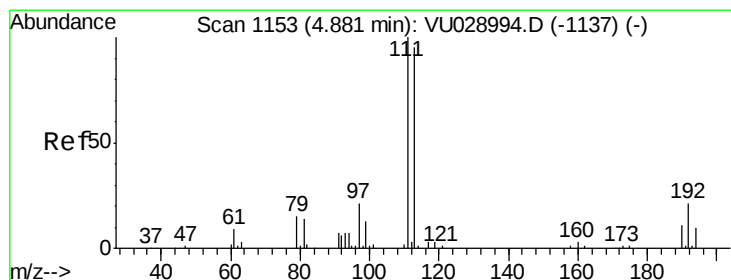
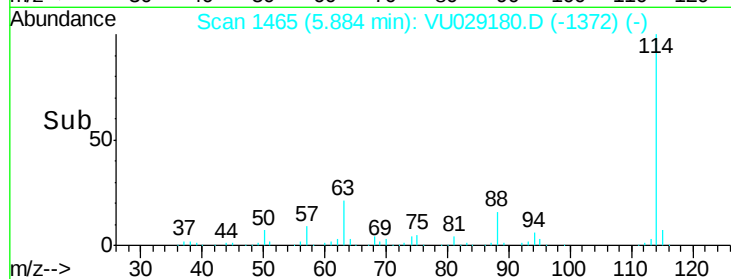
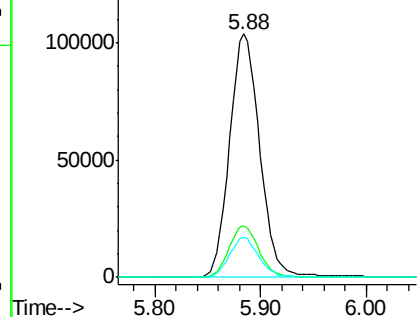
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.1  | 0.0   | 40.2  |
| 88      | 16.4  | 0.0   | 30.4  |



Abundance Ion 113.90 (113.60 to 114.60): V

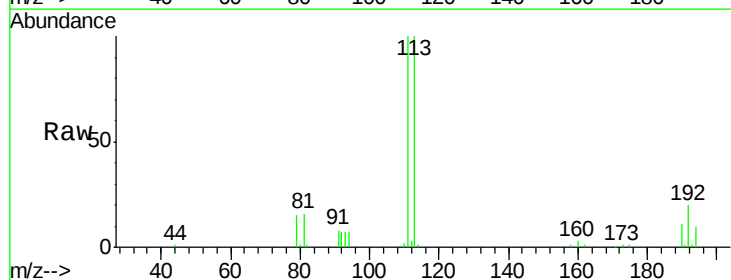
Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35  
Dibromofluoromethane  
Concen: 52.346 ug/l  
RT: 4.88 min Scan# 1153  
Delta R.T. 0.00 min  
Lab File: VU029180.D  
Acq: 15 Jan 2019 13:05

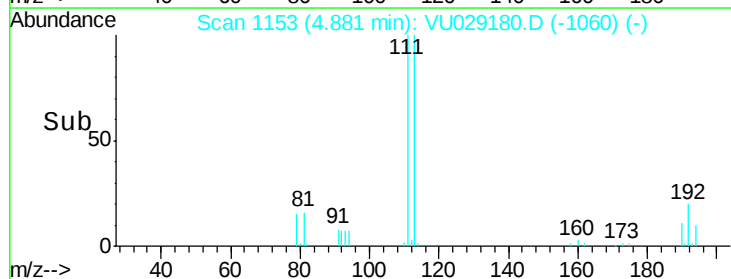
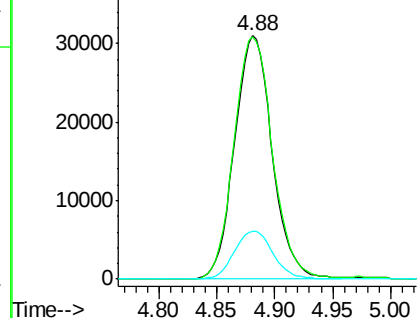
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 81.4  | 122.2 |
| 192     | 20.3  | 16.8  | 25.2  |

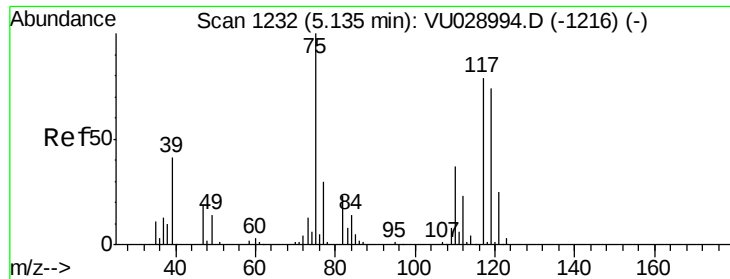


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.230 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Instrument :

MSVOA\_U

ClientSampleId :

PB116371ZHE#02

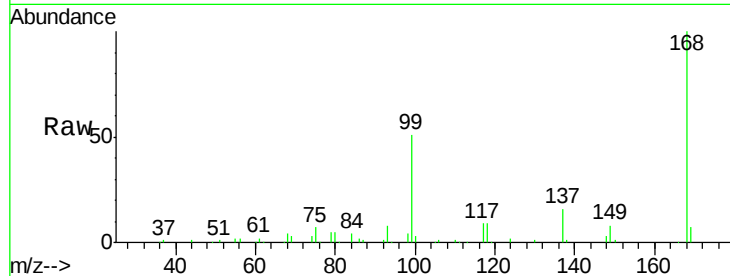
Tot Ion: 75 Resp: 8684

Ion Ratio Lower Upper

75 100

110 7.1 18.4 55.4#

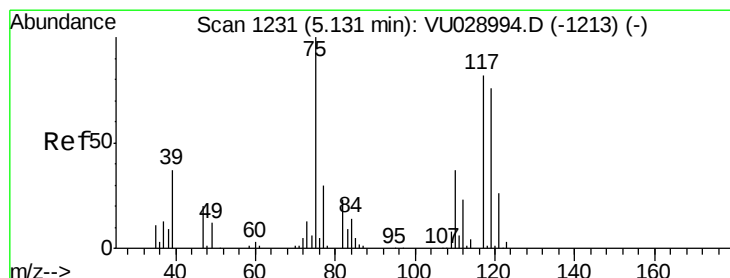
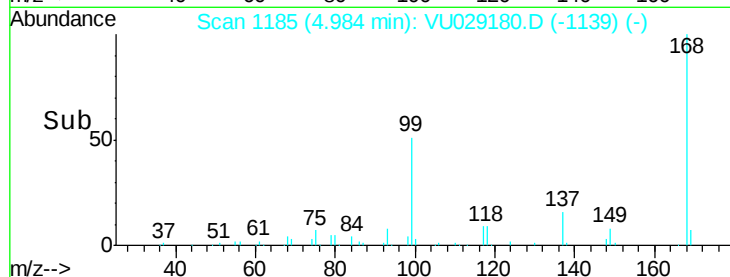
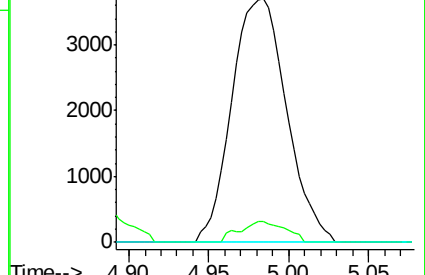
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VU028994.D (-1216) (-)

Ion 109.90 (109.60 to 110.60): VU028994.D (-1216) (-)

Ion 76.90 (76.60 to 77.60): VU028994.D (-1216) (-)



#38

Carbon Tetrachloride

Concen: 6.067 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.15 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

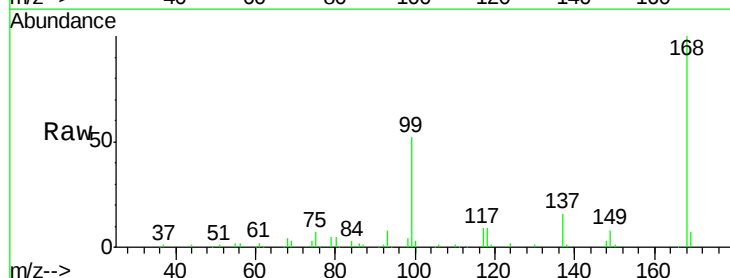
Tgt Ion: 117 Resp: 10388

Ion Ratio Lower Upper

117 100

119 6.7 74.6 111.8#

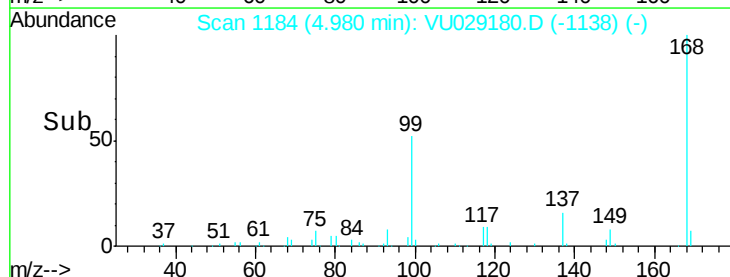
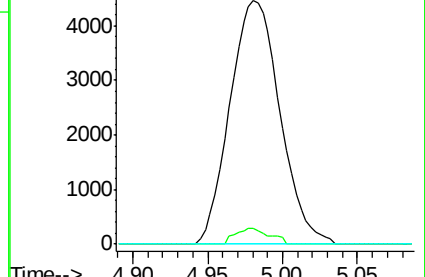
121 0.0 25.0 37.6#

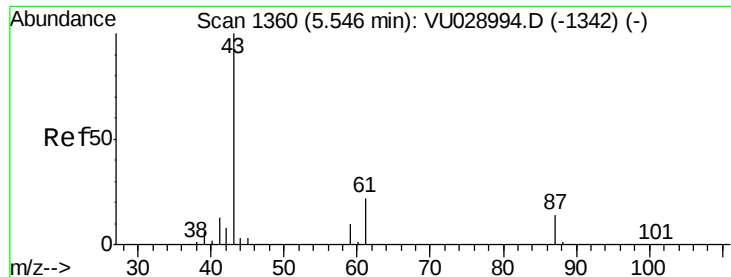


Abundance Ion 116.80 (116.50 to 117.50): VU028994.D (-1213) (-)

Ion 118.80 (118.50 to 119.50): VU028994.D (-1213) (-)

Ion 120.80 (120.50 to 121.50): VU028994.D (-1213) (-)





#43

Isopropyl Acetate

Concen: 2.362 ug/l

RT: 5.56 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Instrument :

MSVOA\_U

ClientSampleId :

PB116371ZHE#02

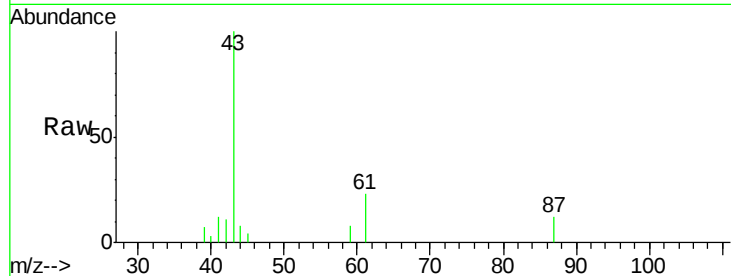
Tot Ion: 43 Resp: 8166

Ion Ratio Lower Upper

43 100

61 22.0 17.8 26.6

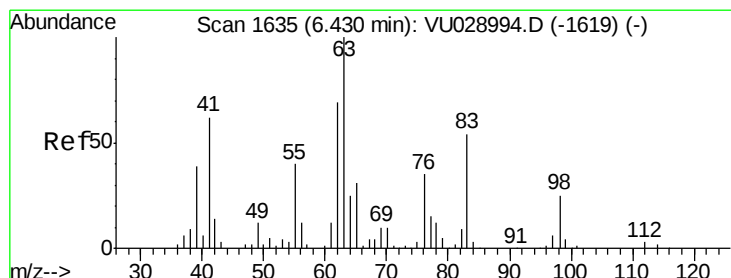
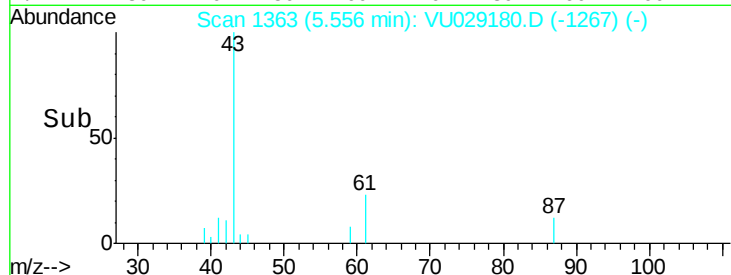
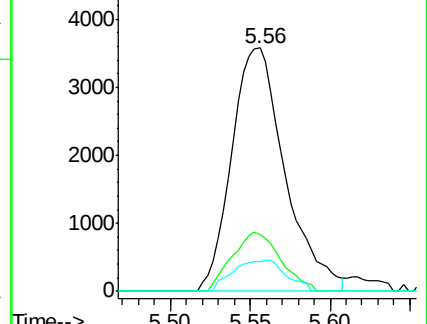
87 12.7 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU029180.D (-1267) (-)

Ion 61.00 (60.70 to 61.70): VU029180.D (-1267) (-)

Ion 87.00 (86.70 to 87.70): VU029180.D (-1267) (-)



#45

1,2-Dichloropropane

Concen: 0.400 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.28 min

Lab File: VU029180.D

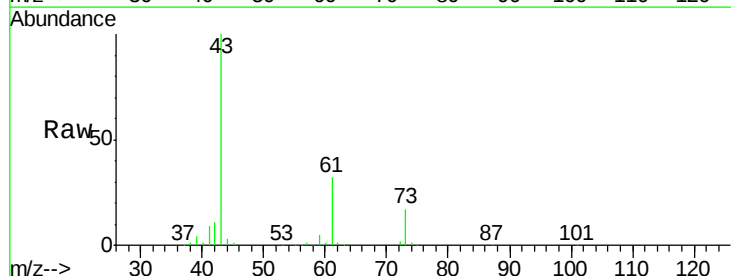
Acq: 15 Jan 2019 13:05

Tgt Ion: 63 Resp: 677

Ion Ratio Lower Upper

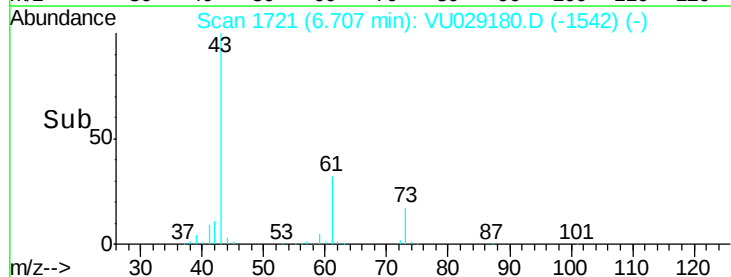
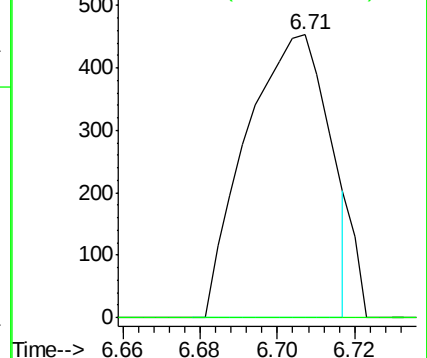
63 100

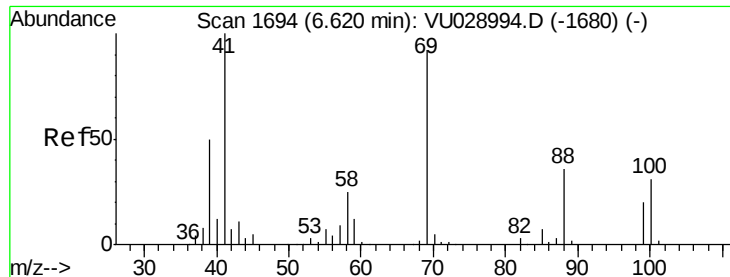
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU029180.D (-1542) (-)

Ion 64.90 (64.60 to 65.60): VU029180.D (-1542) (-)





#48

Methvl methacrylate

Concen: 31.882 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Instrument :

MSVOA\_U

ClientSampleId :

PB116371ZHE#02

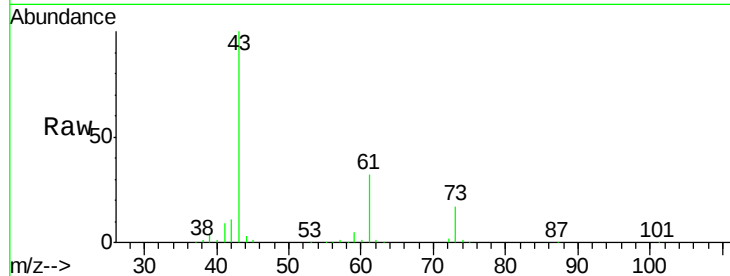
Tot Ion: 41 Resp: 53660

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

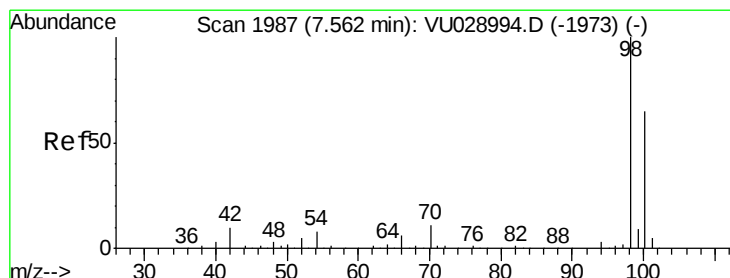
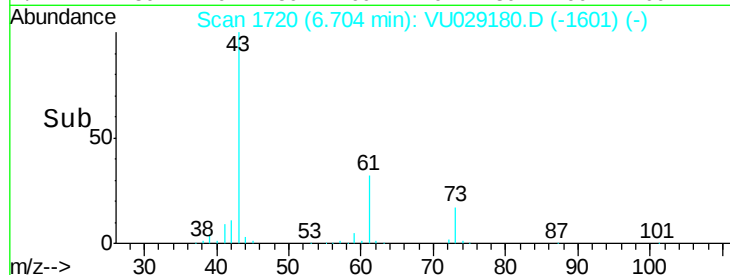
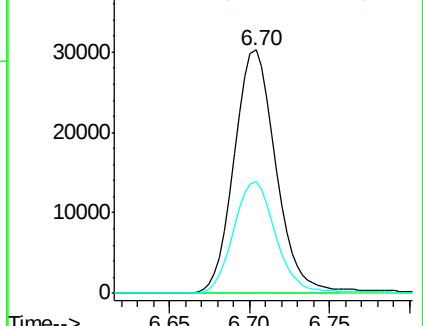
39 46.8 39.6 59.4



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



#50

Toluene-d8

Concen: 50.701 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029180.D

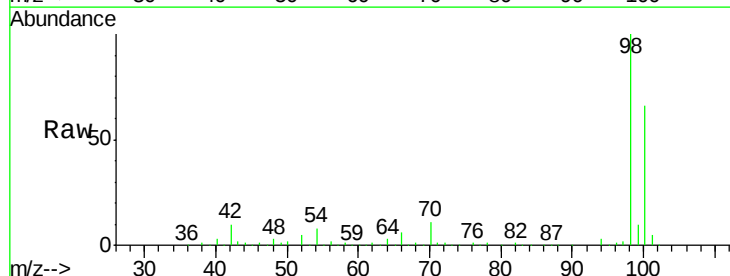
Acq: 15 Jan 2019 13:05

Tgt Ion: 98 Resp: 266475

Ion Ratio Lower Upper

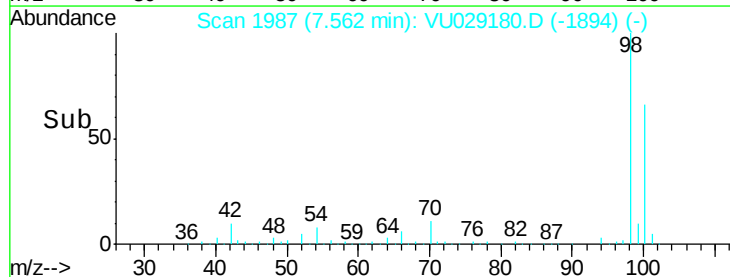
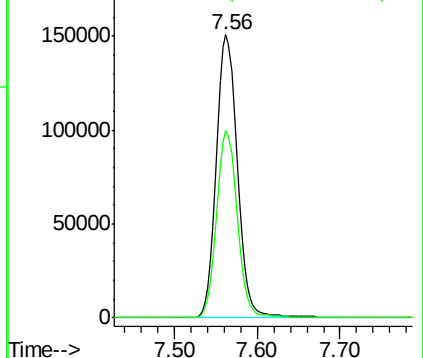
98 100

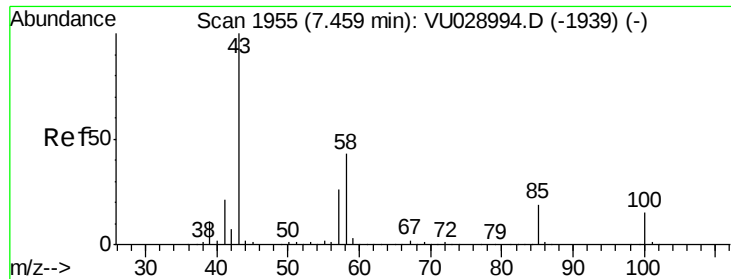
100 64.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 1.902 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Instrument :

MSVOA\_U

ClientSampleId :

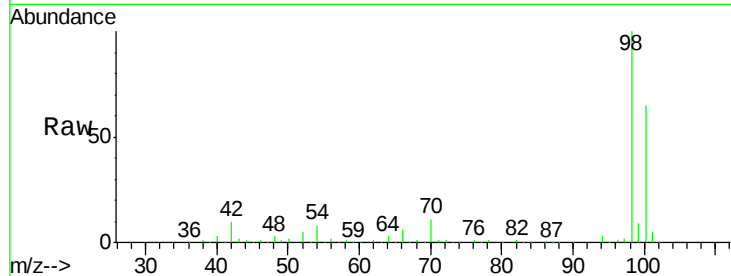
PB116371ZHE#02

Tot Ion: 43 Resp: 4475

Ion Ratio Lower Upper

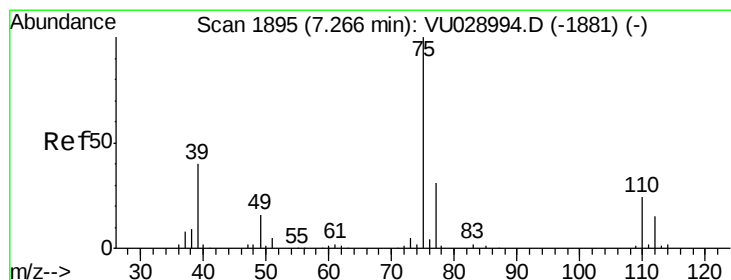
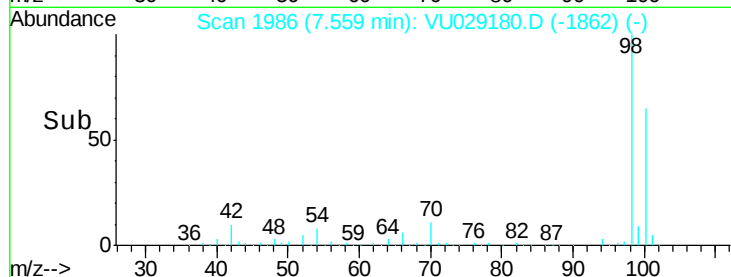
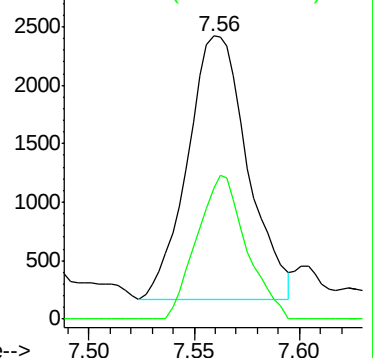
43 100

58 44.7 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 8.817 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

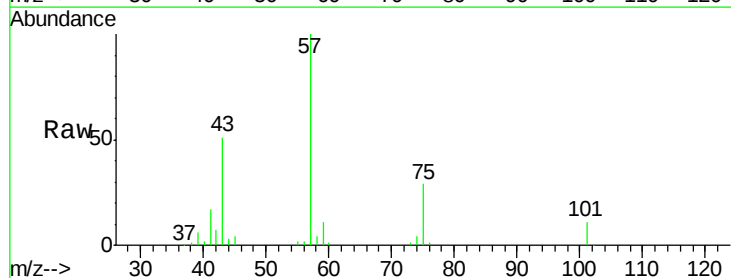
Tgt Ion: 75 Resp: 22779

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

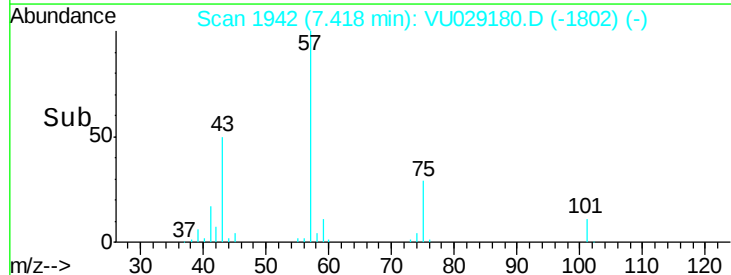
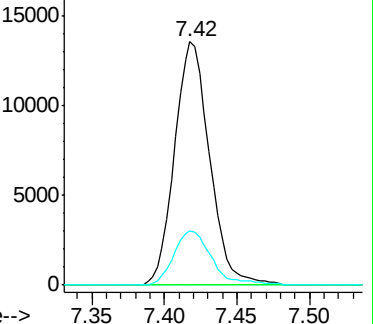
39 22.3 32.2 48.4#

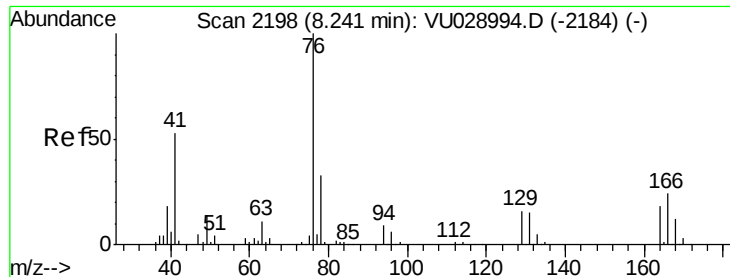


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 1.872 ug/l

RT: 8.41 min Scan# 2251

Delta R.T. 0.17 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Instrument :

MSVOA\_U

ClientSampleId :

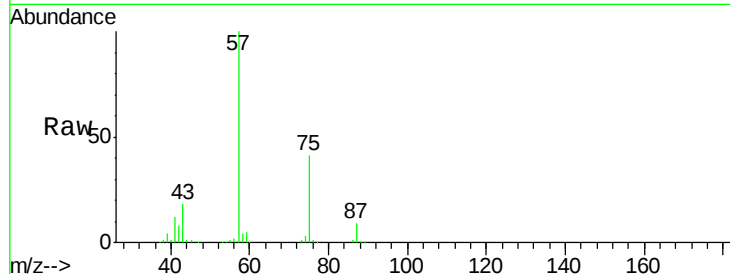
PB116371ZHE#02

Tot Ion: 76 Resp: 5001

Ion Ratio Lower Upper

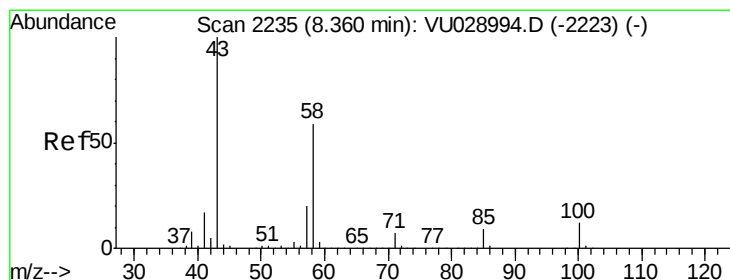
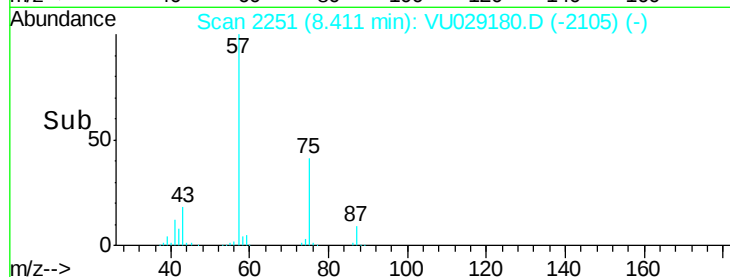
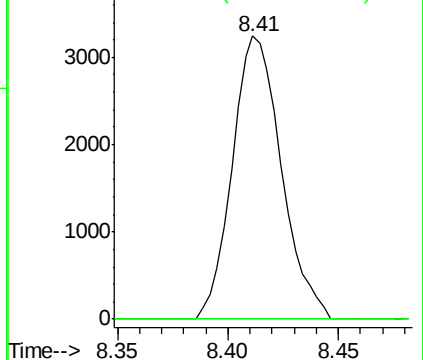
76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#59

2-Hexanone

Concen: 4.075 ug/l

RT: 8.31 min Scan# 2220

Delta R.T. -0.05 min

Lab File: VU029180.D

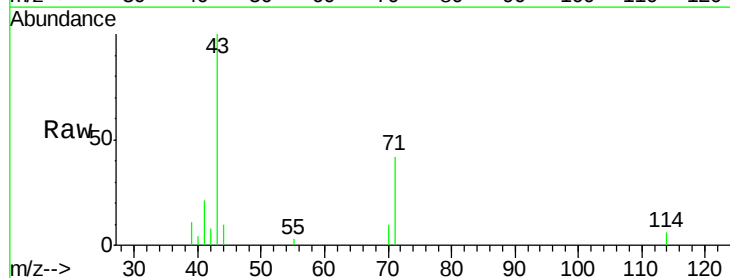
Acq: 15 Jan 2019 13:05

Tgt Ion: 43 Resp: 7525

Ion Ratio Lower Upper

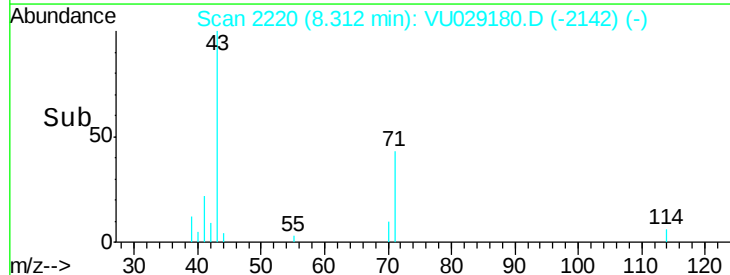
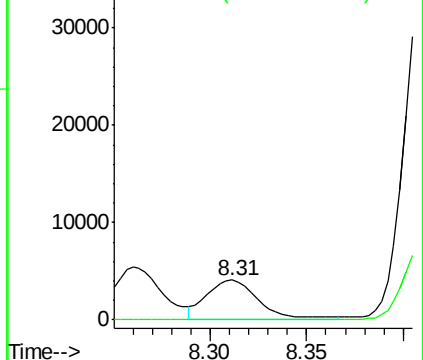
43 100

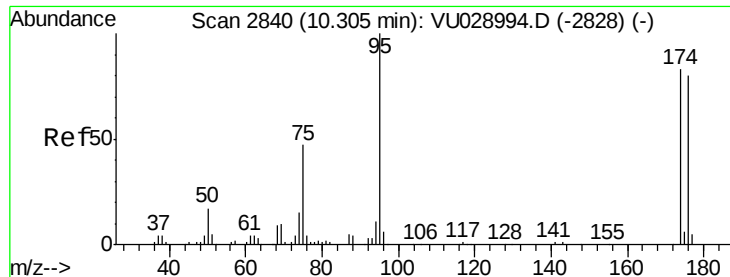
58 0.0 29.8 89.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

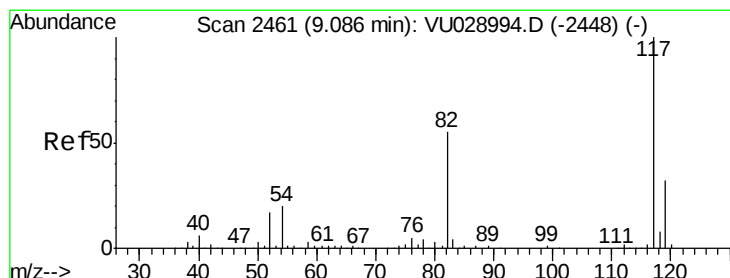
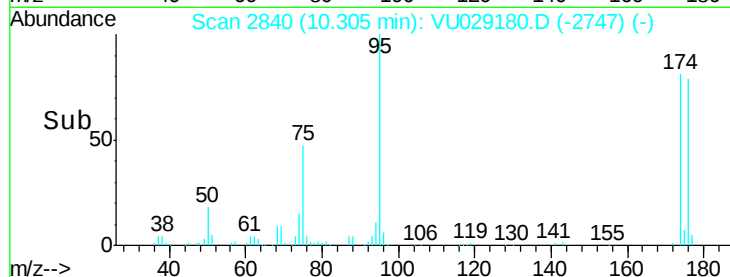
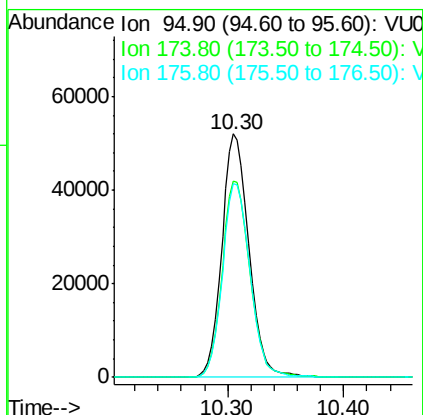
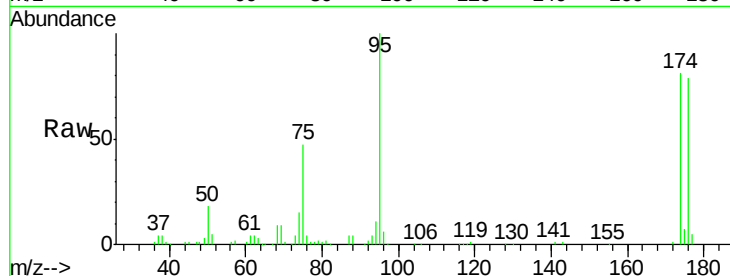




#62  
4-Bromofluorobenzene  
Concen: 44.756 ug/l  
RT: 10.30 min Scan# 2840  
Delta R.T. 0.00 min  
Lab File: VU029180.D  
Acq: 15 Jan 2019 13:05

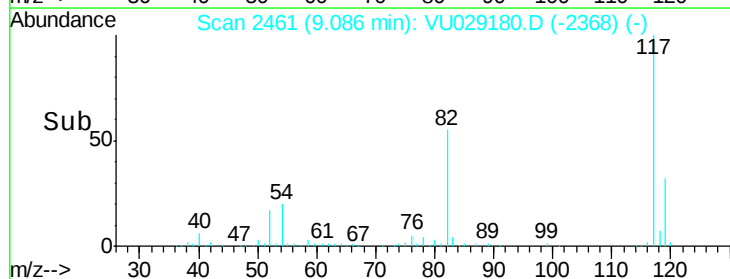
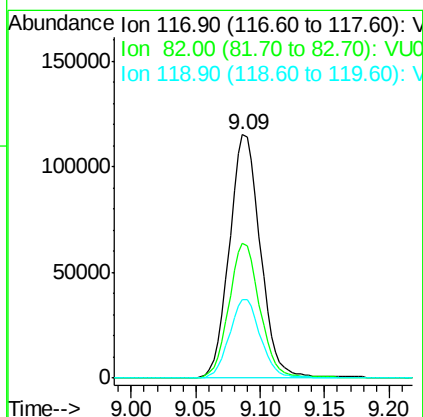
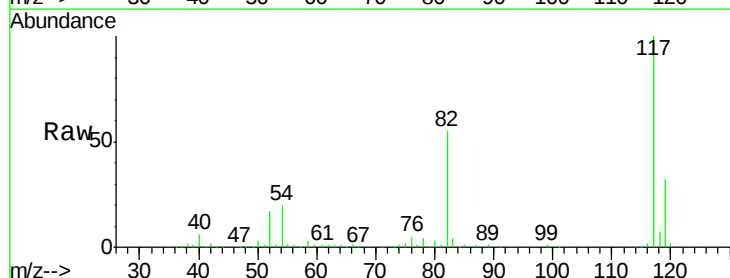
Instrument :  
MSVOA\_U  
ClientSampleId :  
PB116371ZHE#02

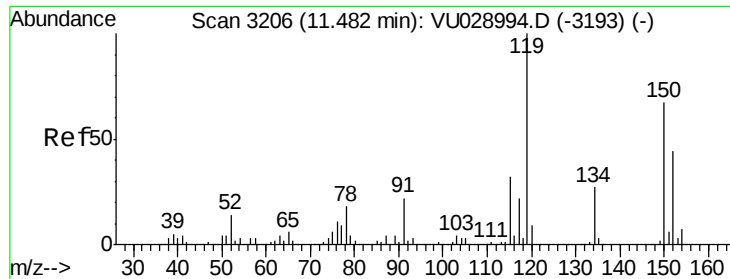
Tot Ion: 95 Resp: 84537  
Ion Ratio Lower Upper  
95 100  
174 82.7 0.0 170.6  
176 80.6 0.0 165.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2461  
Delta R.T. 0.00 min  
Lab File: VU029180.D  
Acq: 15 Jan 2019 13:05

Tgt Ion: 117 Resp: 192878  
Ion Ratio Lower Upper  
117 100  
82 55.2 43.9 65.9  
119 32.3 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Instrument :

MSVOA\_U

ClientSampleId :

PB116371ZHE#02

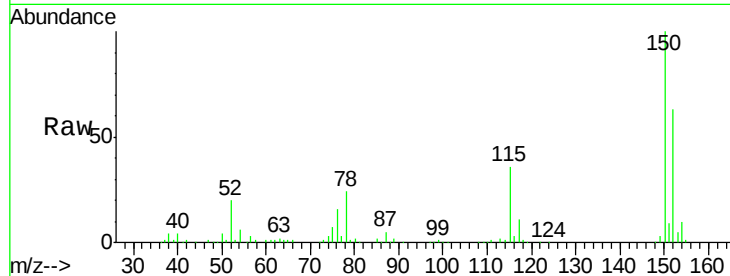
Tot Ion:152 Resp: 77928

Ion Ratio Lower Upper

152 100

115 57.2 40.1 120.3

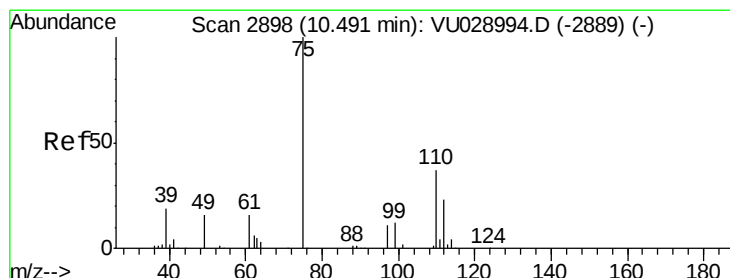
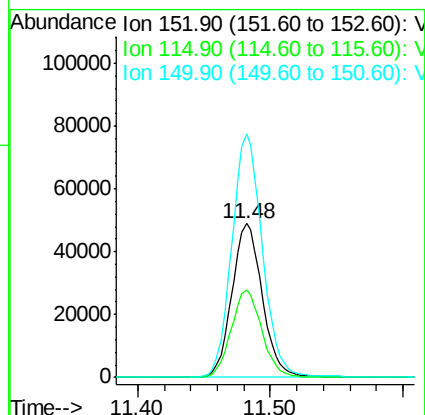
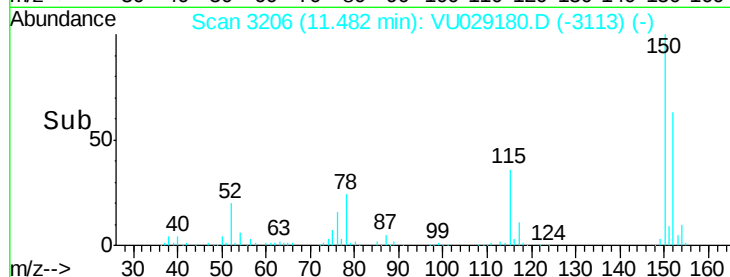
150 159.7 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.022 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029180.D

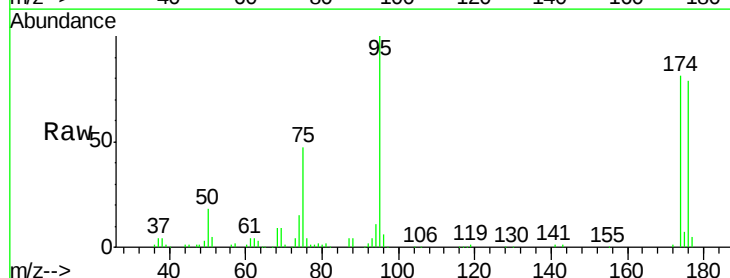
Acq: 15 Jan 2019 13:05

Tgt Ion: 75 Resp: 40139

Ion Ratio Lower Upper

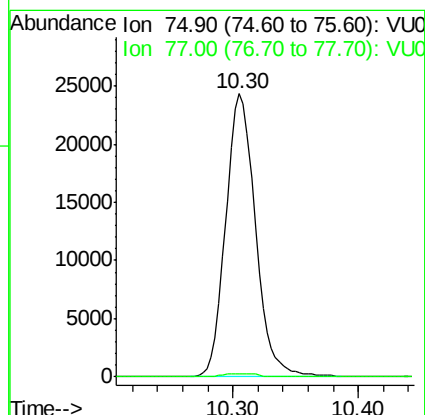
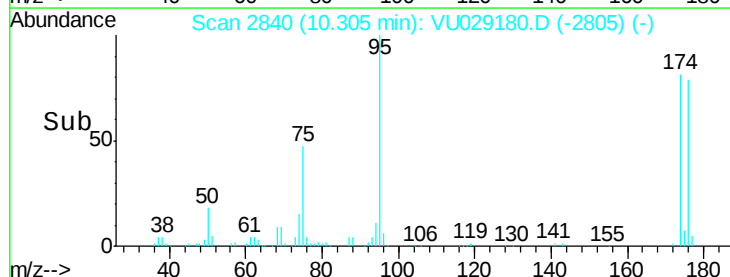
75 100

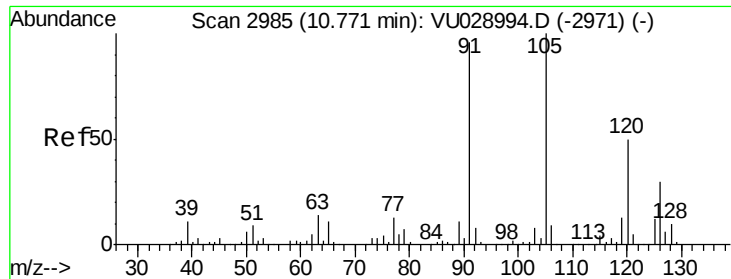
77 1.3 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.272 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Instrument :

MSVOA\_U

ClientSampleId :

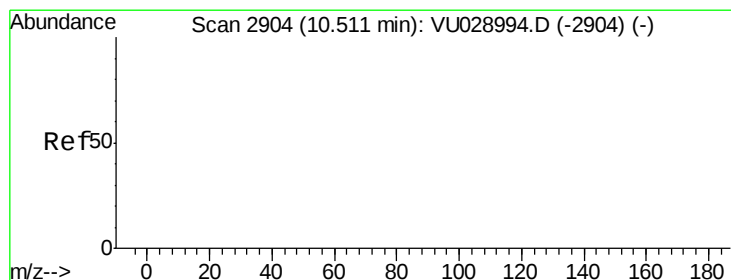
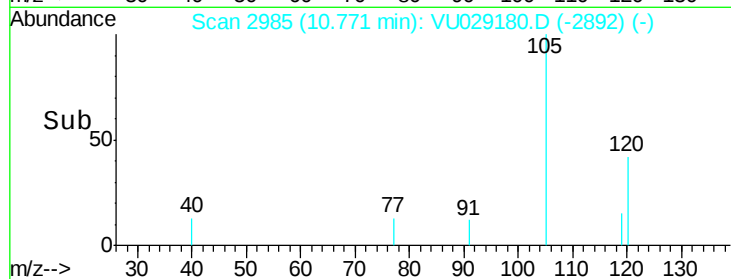
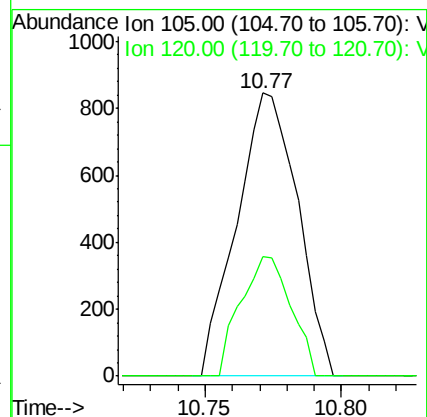
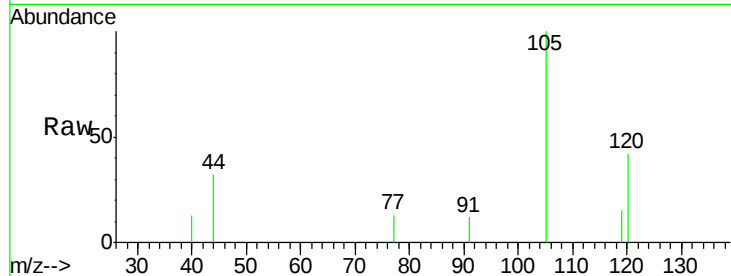
PB116371ZHE#02

Tot Ion:105 Resp: 1308

Ion Ratio Lower Upper

105 100

120 35.1 24.8 74.4



#81

trans-1,4-Dichloro-2-butene

Concen: 54.217 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029180.D

Acq: 15 Jan 2019 13:05

Tgt Ion: 75 Resp: 40139

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

