

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062318\  
 Data File : VU024849.D  
 Acq On : 22 Jun 2018 22:15  
 Operator : MD/SY  
 Sample : J3662-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 23 02:16:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 196884   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 299266   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 280958   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 154067   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 142497   | 44.33 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.66% |      |
| 35) Dibromofluoromethane  | 4.89   | 113 | 116144   | 46.76 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.52% |      |
| 50) Toluene-d8            | 7.57   | 98  | 438982   | 48.46 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.92% |      |
| 62) 4-Bromofluorobenzene  | 10.31  | 95  | 165464   | 46.00 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.00% |      |

## Target Compounds

|                                |       |     |         |           |        | Qvalue |
|--------------------------------|-------|-----|---------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50  | 811     | 0.32      | ug/l   | 94     |
| 4) Vinyl Chloride              | 1.40  | 62  | 476815  | 183.64    | ug/l   | 99     |
| 5) Bromomethane                | 1.64  | 94  | 445     | 0.35      | ug/l   | 86     |
| 11) Tert butyl alcohol         | 2.82  | 59  | 12180   | 15.58     | ug/l   | 95     |
| 12) 1,1-Dichloroethene         | 2.29  | 96  | 2421    | 1.08      | ug/l # | 64     |
| 13) Acrolein                   | 2.21  | 56  | 287     | 0.70      | ug/l # | 13     |
| 16) Acetone                    | 2.32  | 43  | 1668    | 0.97      | ug/l # | 88     |
| 20) Methylene Chloride         | 2.71  | 84  | 2209    | 0.82      | ug/l   | 87     |
| 24) 1,1-Dichloroethane         | 3.45  | 63  | 11777   | 2.48      | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene     | 4.23  | 96  | 151087  | 53.22     | ug/l   | 89     |
| 29) Tetrahydrofuran            | 4.65  | 42  | 1230    | 0.86      | ug/l # | 69     |
| 30) Chloroform                 | 4.68  | 83  | 1487    | 0.31      | ug/l # | 80     |
| 31) Cyclohexane                | 4.99  | 56  | 4551    | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75  | 15097   | 4.29      | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 4.99  | 117 | 18820   | 4.87      | ug/l # | 17     |
| 39) Methylcyclohexane          | 6.42  | 83  | 1718    | 0.39      | ug/l # | 86     |
| 40) Benzene                    | 5.39  | 78  | 197892  | 19.75     | ug/l   | 100    |
| 42) 1,2-Dichloroethane         | 5.40  | 62  | 2506    | 0.66      | ug/l # | 77     |
| 44) Trichloroethene            | 6.19  | 130 | 3082    | 1.08      | ug/l   | 99     |
| 49) 1,4-Dioxane                | 6.62  | 88  | 1834    | 29.07     | ug/l # | 92     |
| 51) 4-Methyl-2-Pentanone       | 7.47  | 43  | 864     | 0.21      | ug/l # | 37     |
| 52) Toluene                    | 7.64  | 92  | 6452    | 1.00      | ug/l   | 98     |
| 59) 2-Hexanone                 | 8.17  | 43  | 7708    | 2.27      | ug/l   | 73     |
| 65) Chlorobenzene              | 9.12  | 112 | 2226671 | 310.23    | ug/l   | 99     |
| 73) Isopropylbenzene           | 10.17 | 105 | 6794    | 0.57      | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75  | 84723   | 24.98     | ug/l # | 36     |
| 78) n-propylbenzene            | 10.60 | 91  | 3481    | 0.25      | ug/l   | 96     |
| 80) 1,3,5-Trimethylbenzene     | 10.98 | 105 | 2149    | 0.21      | ug/l   | 71     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75  | 84723   | 57.81     | ug/l # | 100    |
| 83) tert-Butylbenzene          | 11.10 | 119 | 30942   | 3.14      | ug/l   | 93     |
| 84) 1,2,4-Trimethylbenzene     | 10.98 | 105 | 2149    | 0.21      | ug/l   | 75     |
| 85) sec-Butylbenzene           | 11.33 | 105 | 24553   | 1.99      | ug/l   | 94     |
| 86) p-Isopropyltoluene         | 11.69 | 119 | 33618   | 3.04      | ug/l   | 95     |
| 87) 1,3-Dichlorobenzene        | 11.42 | 146 | 10627   | 1.92      | ug/l   | 99     |

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Sample : J3662-01  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jun 23 02:16:46 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 13 13:55:26 2018  
Response via : Initial Calibration

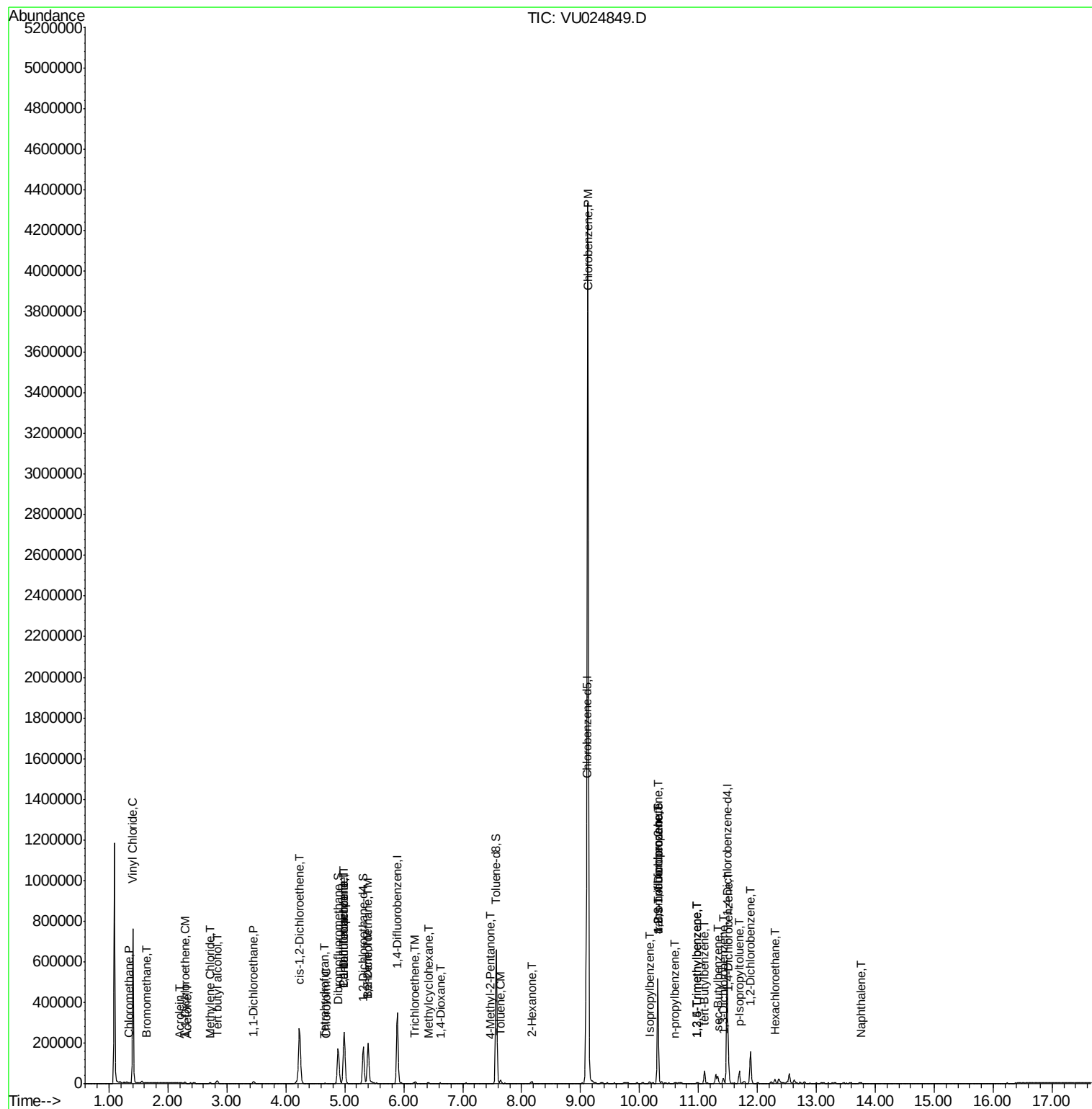
| Internal Standards      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------|-------|------|----------|-------|--------|----------|
| 88) 1,4-Dichlorobenzene | 11.51 | 146  | 29368    | 5.27  | ug/l   | 96       |
| 90) Hexachloroethane    | 12.29 | 117  | 869      | 0.40  | ug/l # | 8        |
| 91) 1,2-Dichlorobenzene | 11.88 | 146  | 62944    | 11.36 | ug/l   | 98       |
| 95) Naphthalene         | 13.75 | 128  | 4726     | 1.09  | ug/l   | 97       |

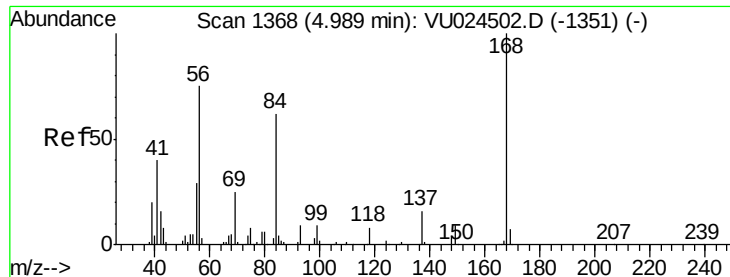
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Jun 13 13:55:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

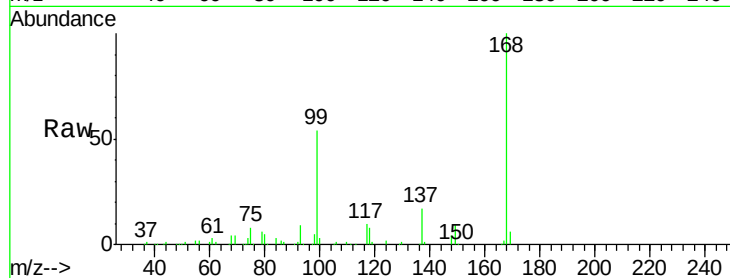
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion:168 Resp: 196884

Ion Ratio Lower Upper

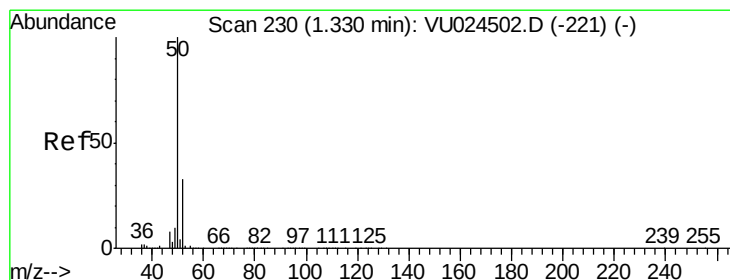
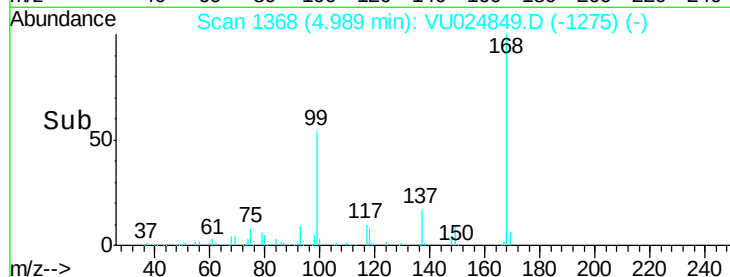
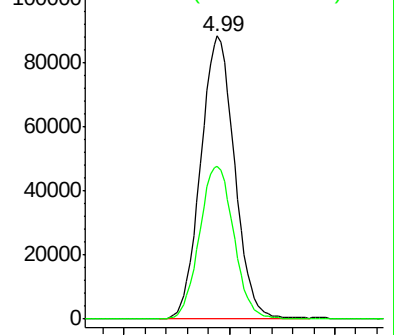
168 100

99 54.1 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#3

Chloromethane

Concen: 0.32 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024849.D

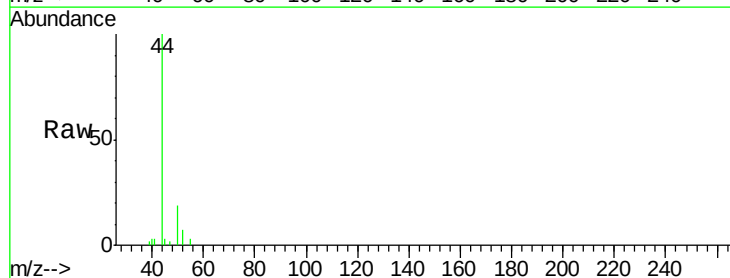
Acq: 22 Jun 2018 22:15

Tgt Ion: 50 Resp: 811

Ion Ratio Lower Upper

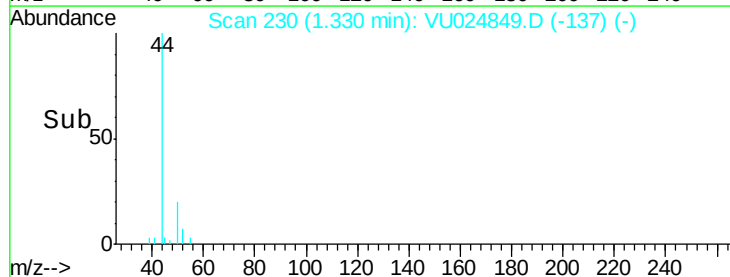
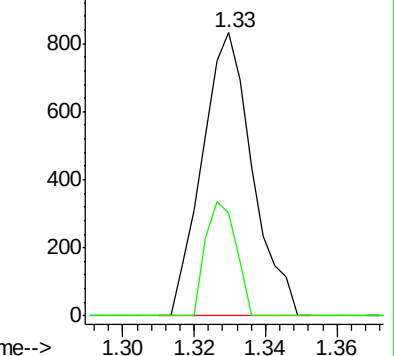
50 100

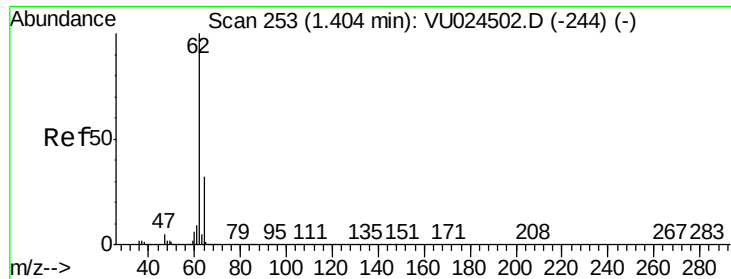
52 36.5 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0





#4

Vinyl Chloride

Concen: 183.64 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

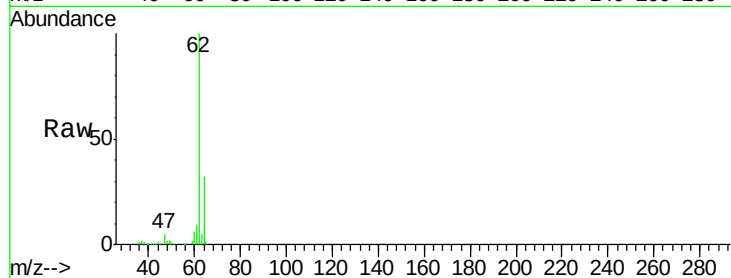
ClientSampleId :

Tot Ion: 62 Resp: 476815

Ion Ratio Lower Upper

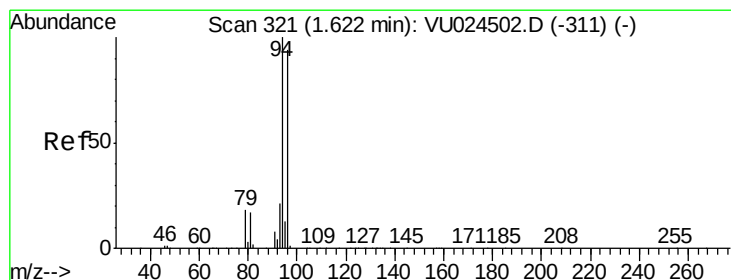
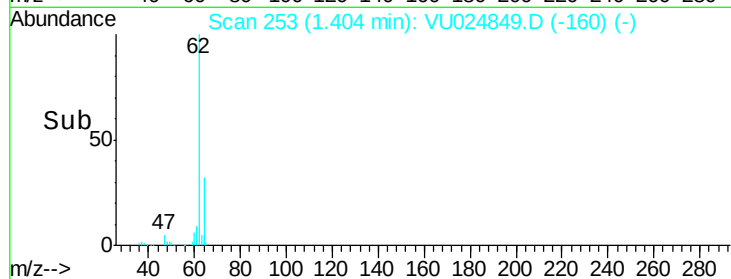
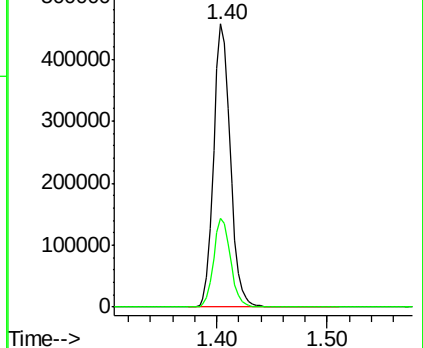
62 100

64 31.6 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU024849.D (-160) (-)

Ion 63.90 (63.60 to 64.60): VU024849.D (-160) (-)



#5

Bromomethane

Concen: 0.35 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024849.D

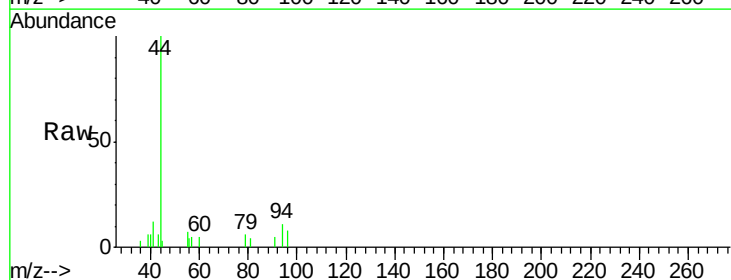
Acq: 22 Jun 2018 22:15

Tgt Ion: 94 Resp: 445

Ion Ratio Lower Upper

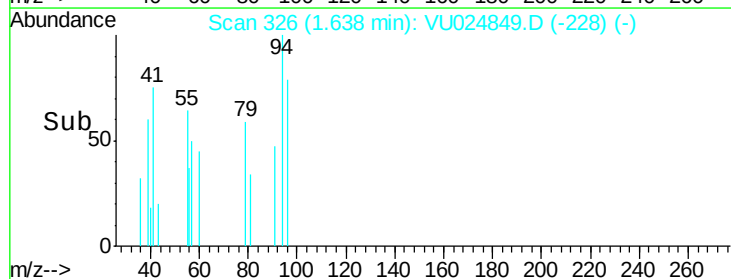
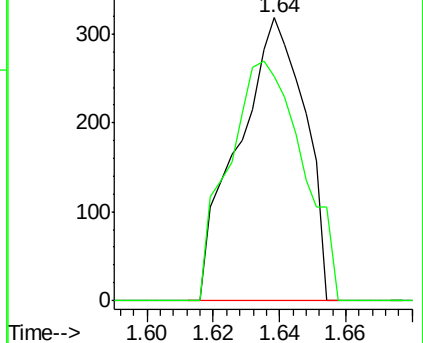
94 100

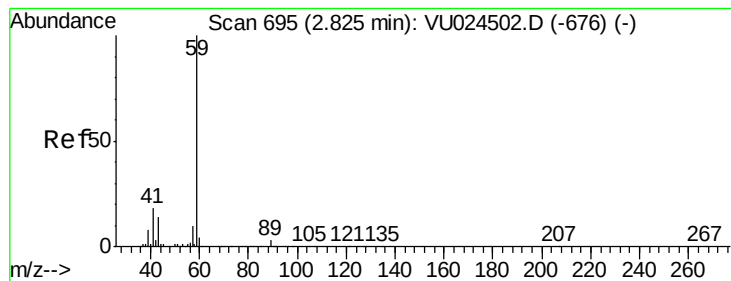
96 79.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU024849.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VU024849.D (-228) (-)



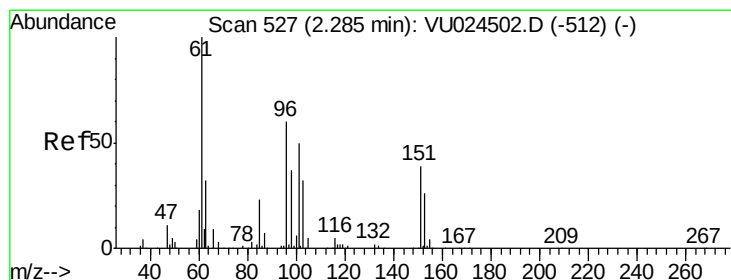
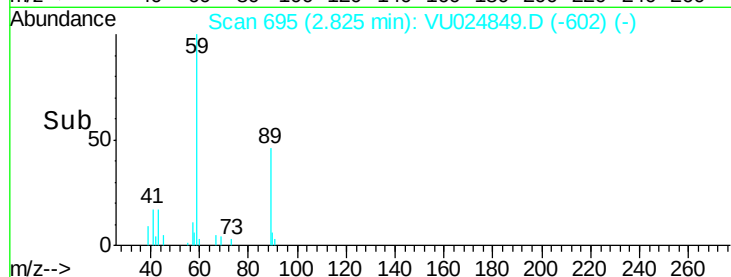
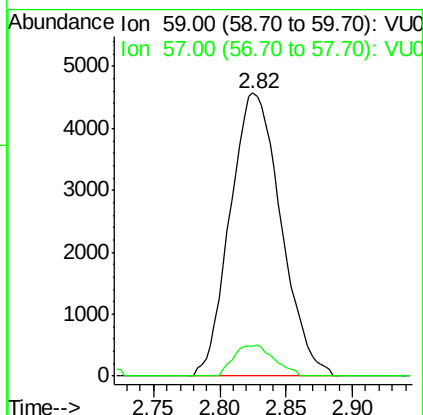
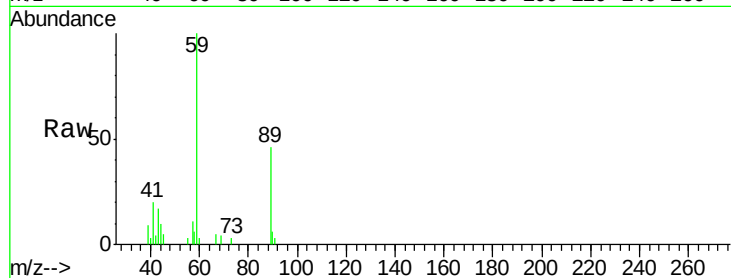


#11

Tert butyl alcohol  
 Concen: 15.58 ug/l  
 RT: 2.82 min Scan# 695  
 Delta R.T. 0.00 min  
 Lab File: VU024849.D  
 Acq: 22 Jun 2018 22:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :

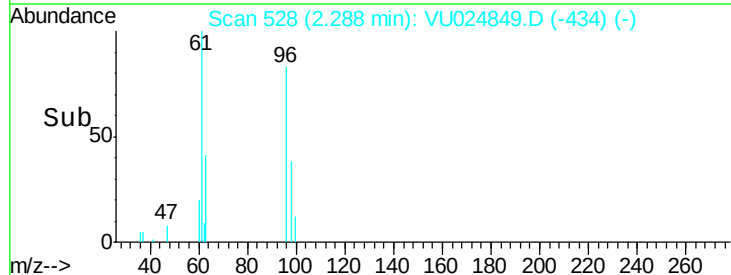
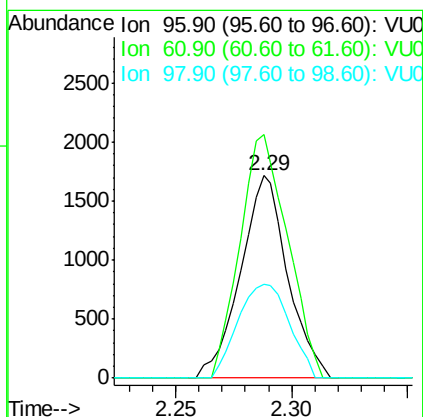
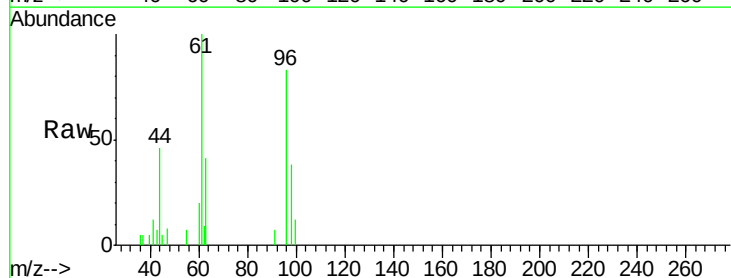
Tot Ion: 59 Resp: 12180  
 Ion Ratio Lower Upper  
 59 100  
 57 8.8 8.5 12.7

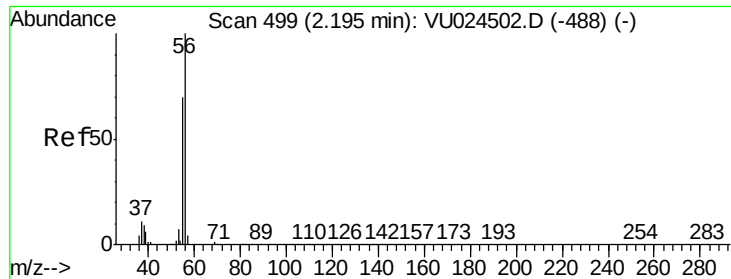


#12

1,1-Dichloroethene  
 Concen: 1.08 ug/l  
 RT: 2.29 min Scan# 528  
 Delta R.T. 0.00 min  
 Lab File: VU024849.D  
 Acq: 22 Jun 2018 22:15

Tgt Ion: 96 Resp: 2421  
 Ion Ratio Lower Upper  
 96 100  
 61 120.5 141.7 212.5#  
 98 46.2 51.6 77.4#





#13

Acrolein

Concen: 0.70 ug/l

RT: 2.21 min Scan# 504

Delta R.T. 0.02 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

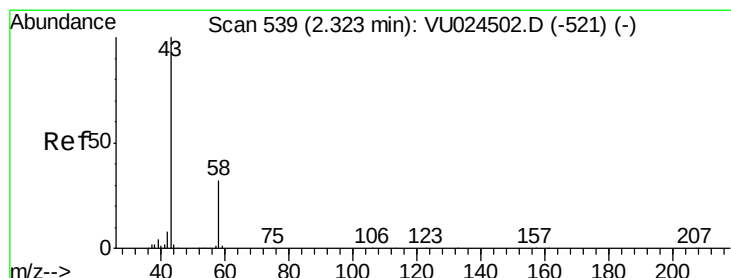
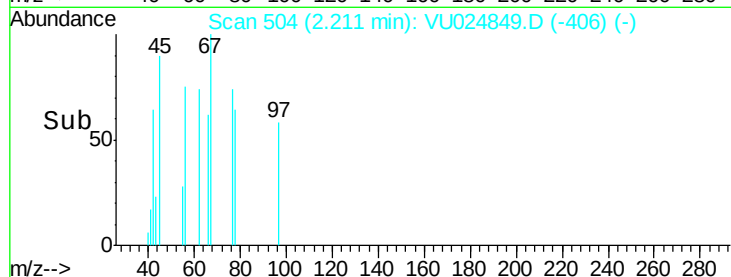
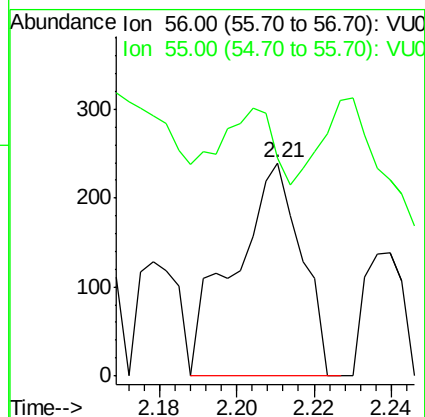
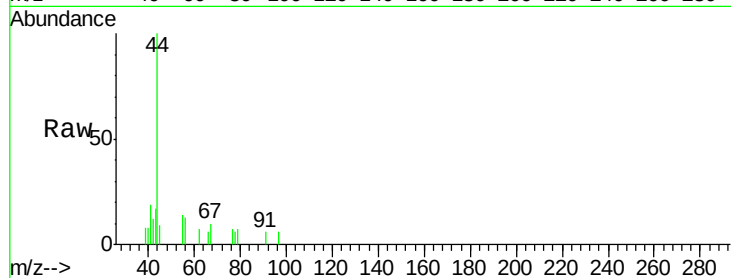
ClientSampleId :

Tot Ion: 56 Resp: 287

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#16

Acetone

Concen: 0.97 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024849.D

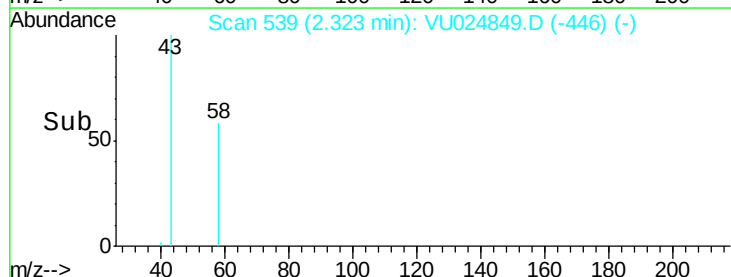
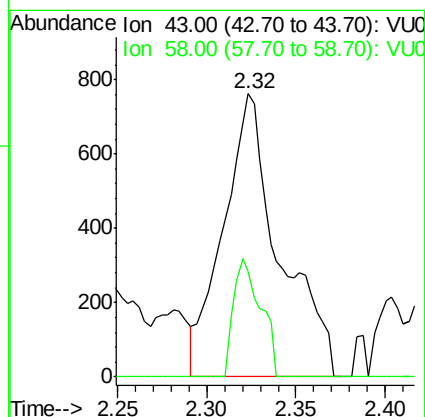
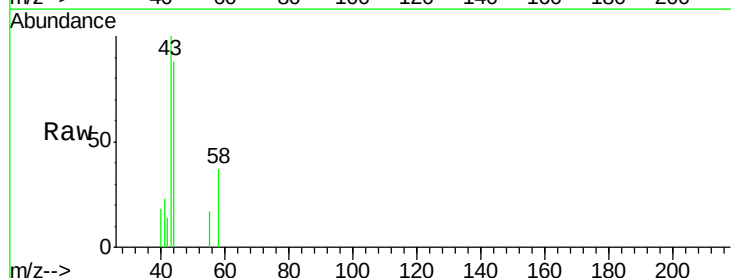
Acq: 22 Jun 2018 22:15

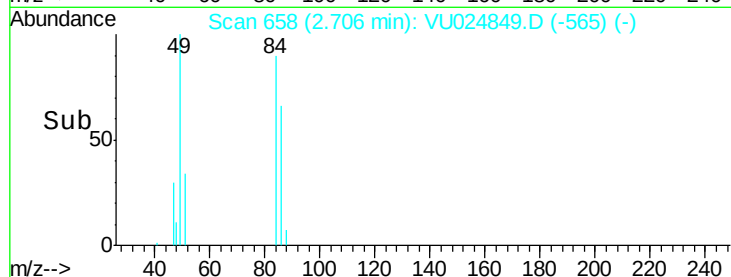
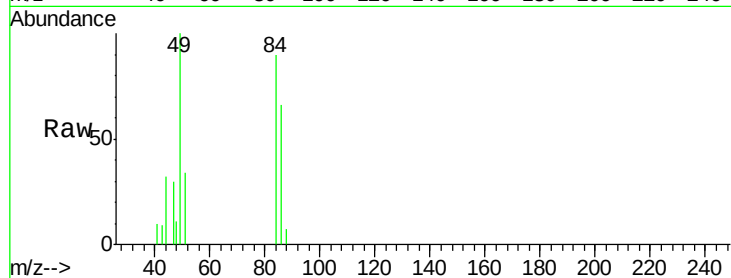
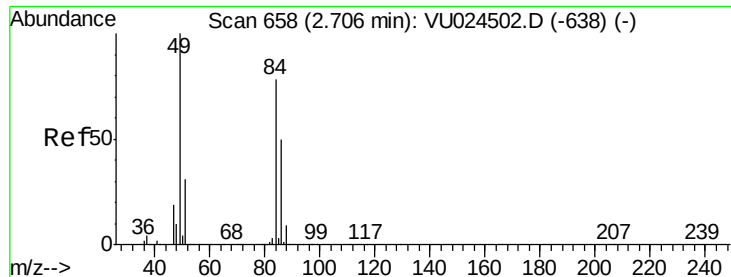
Tgt Ion: 43 Resp: 1668

Ion Ratio Lower Upper

43 100

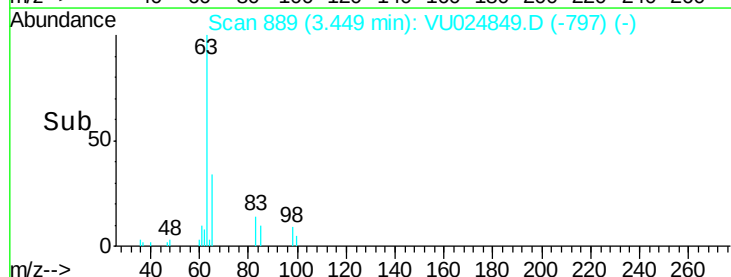
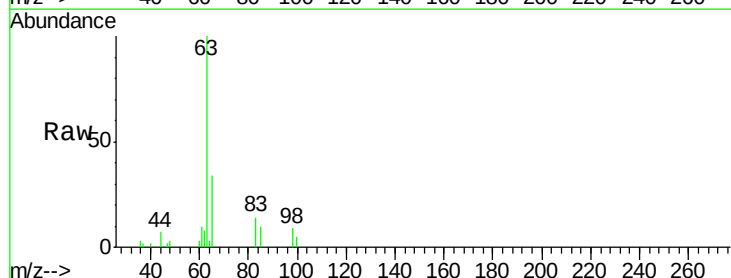
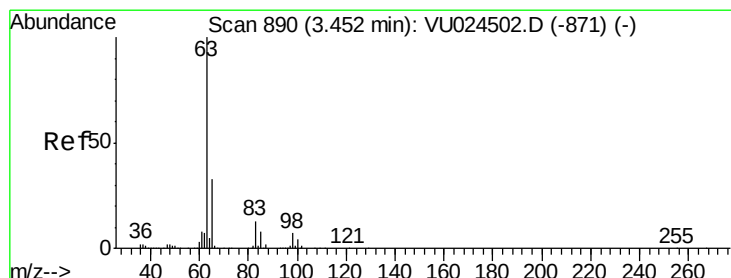
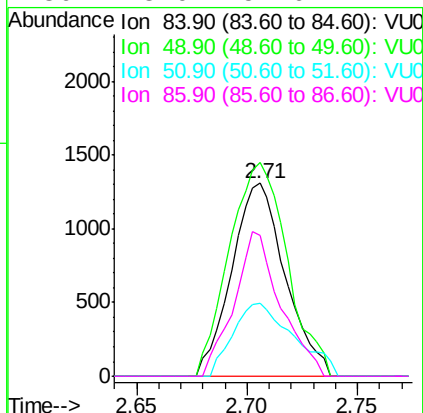
58 37.3 24.4 36.6#





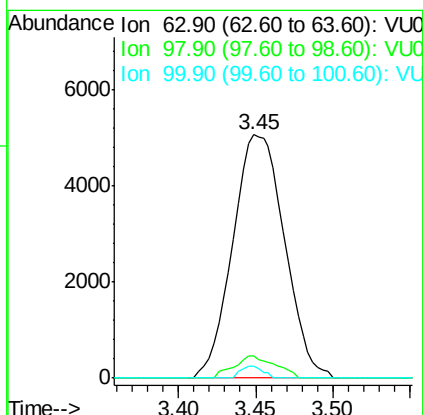
#20  
Methylene Chloride  
Concen: 0.82 ug/l  
RT: 2.71 min Scan# 658  
Delta R.T. 0.00 min  
Lab File: VU024849.D  
Acq: 22 Jun 2018 22:15

|             |             |
|-------------|-------------|
| Tot Ion: 84 | Resp: 2209  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 110.6    | 103.8 155.8 |
| 51 37.5     | 32.0 48.0   |
| 86 73.0     | 51.6 77.4   |

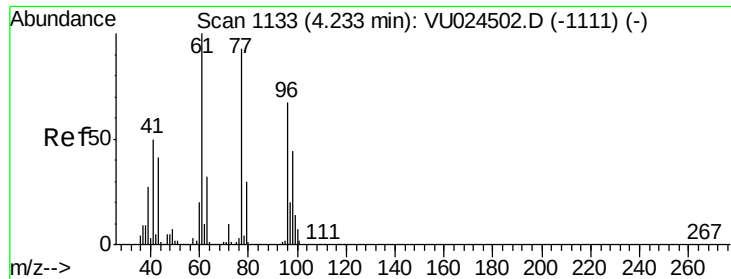


#24  
1,1-Dichloroethane  
Concen: 2.48 ug/l  
RT: 3.45 min Scan# 889  
Delta R.T. -0.00 min  
Lab File: VU024849.D  
Acq: 22 Jun 2018 22:15

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 63 | Resp: | 11777 |
| Ion | Ratio   | Lower | Upper |
| 63  | 100     |       |       |
| 98  | 9.0     | 3.5   | 10.4  |
| 100 | 4.8     | 1.8   | 5.5   |







#27

cis-1,2-Dichloroethene

Concen: 53.22 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

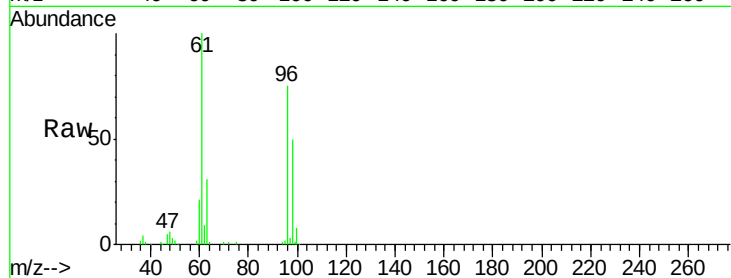
Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 96 Resp: 151087

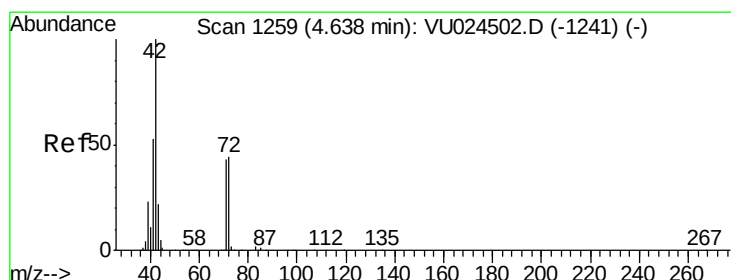
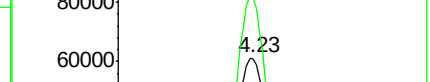
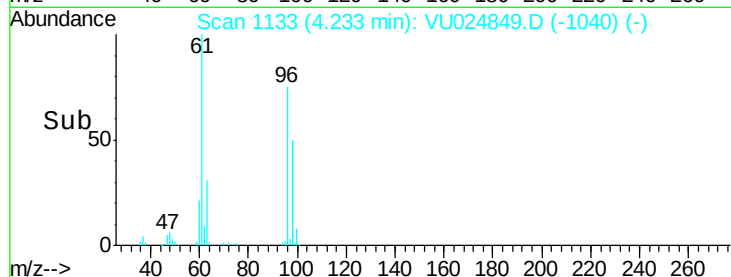
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 132.8 | 0.0   | 306.6 |
| 98  | 65.0  | 0.0   | 128.8 |



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#29

Tetrahydrofuran

Concen: 0.86 ug/l

RT: 4.65 min Scan# 1263

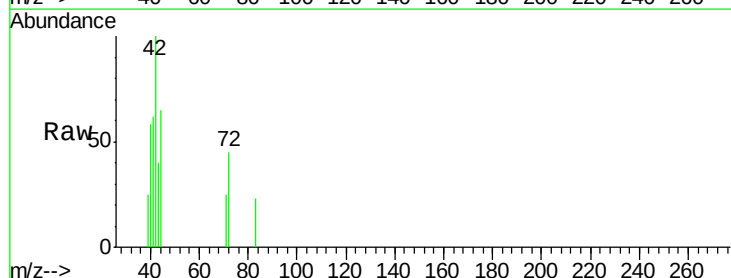
Delta R.T. 0.01 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Tgt Ion: 42 Resp: 1230

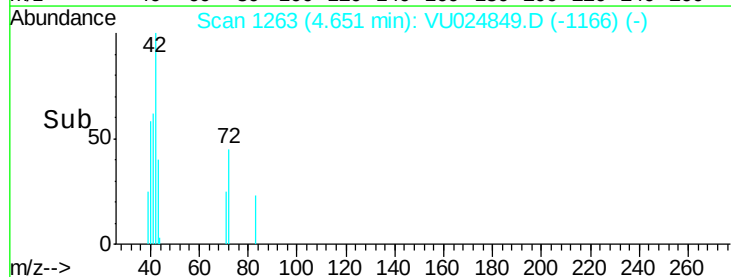
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 32.2  | 34.5  | 51.7# |
| 71  | 11.5  | 32.2  | 48.4# |

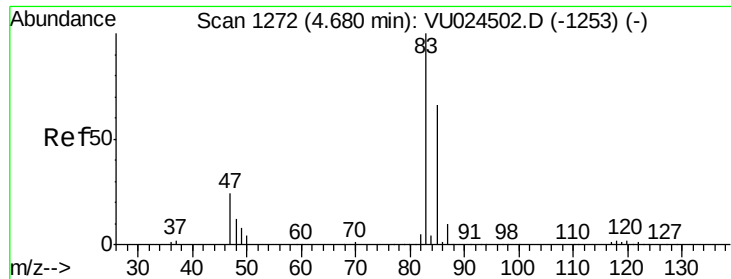


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0





#30

Chloroform

Concen: 0.31 ua/l

RT: 4.68 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

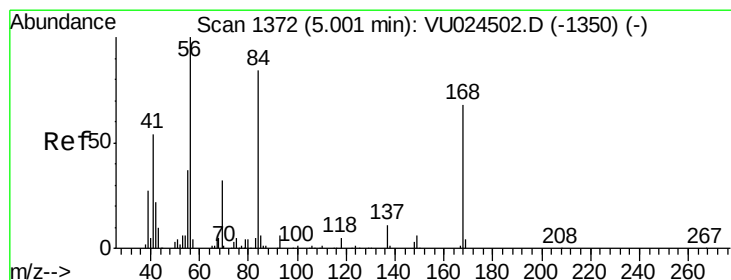
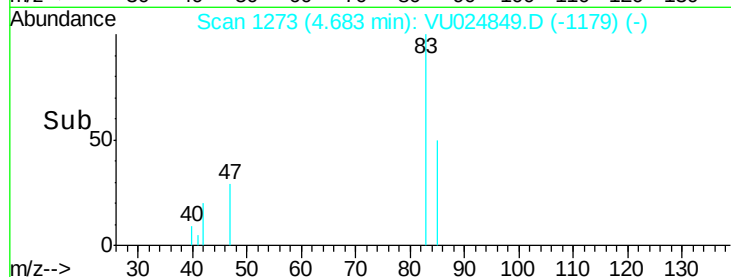
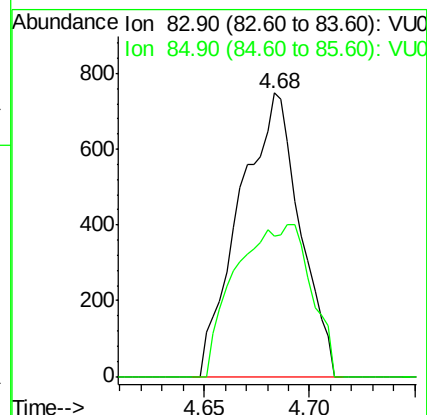
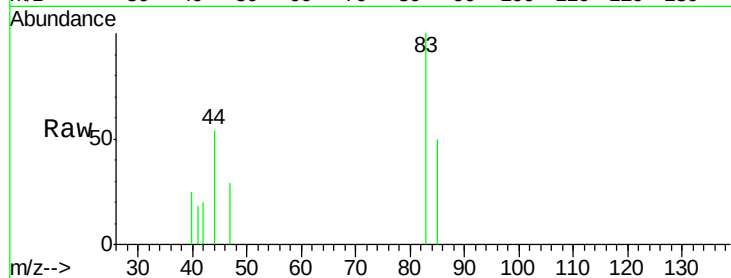
ClientSampleId :

Tot Ion: 83 Resp: 1487

Ion Ratio Lower Upper

83 100

85 49.6 52.4 78.6#



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

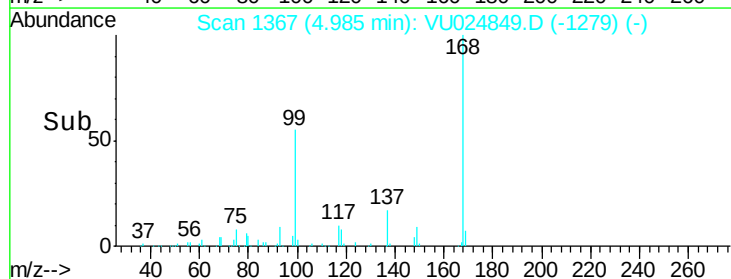
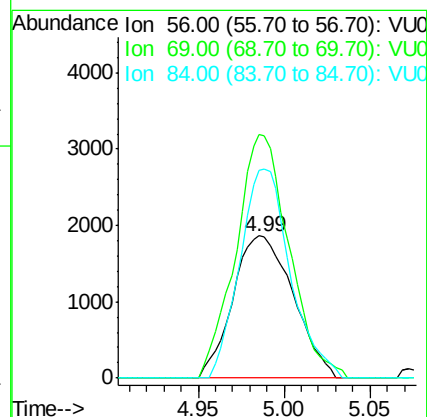
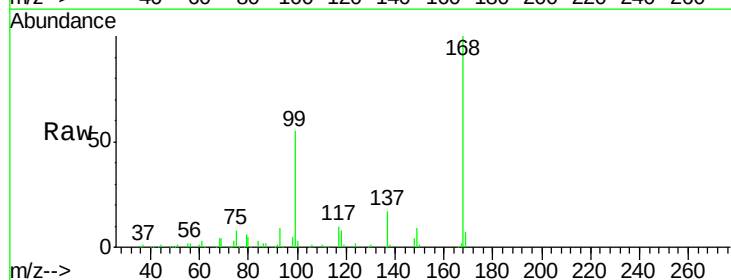
Tgt Ion: 56 Resp: 4551

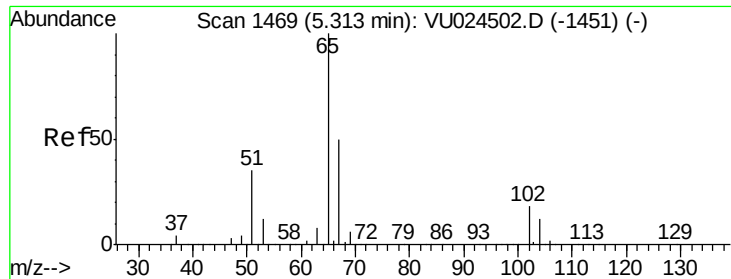
Ion Ratio Lower Upper

56 100

69 171.1 24.8 37.2#

84 145.7 65.2 97.8#

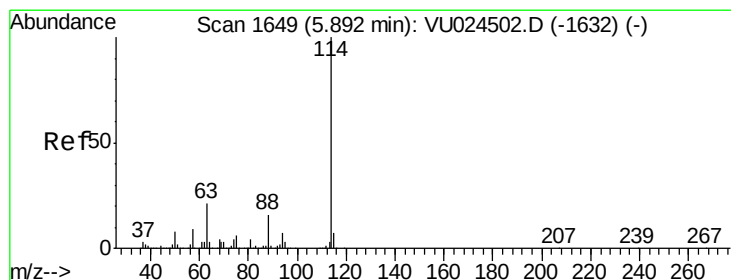
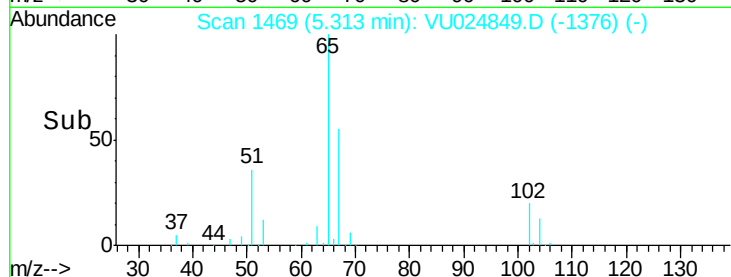
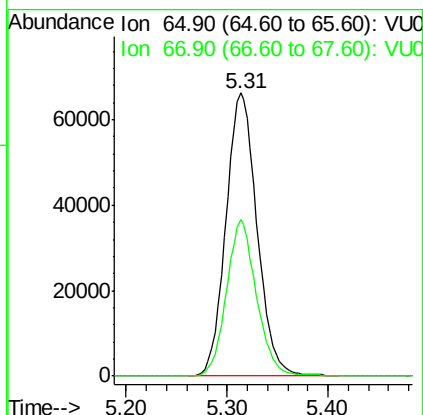
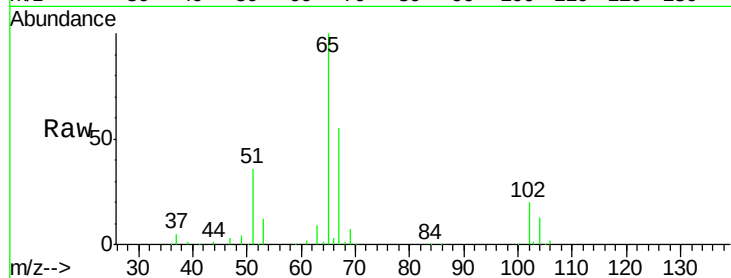




#33  
 1,2-Dichloroethane-d4  
 Concen: 44.33 ug/l  
 RT: 5.31 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VU024849.D  
 Acq: 22 Jun 2018 22:15

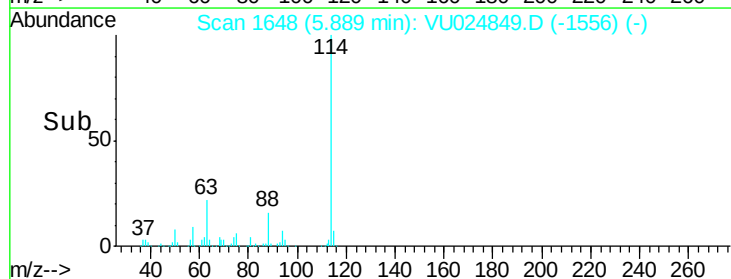
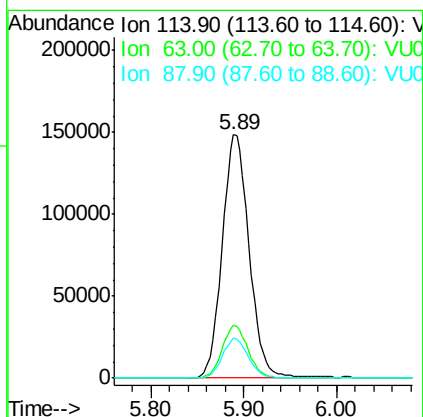
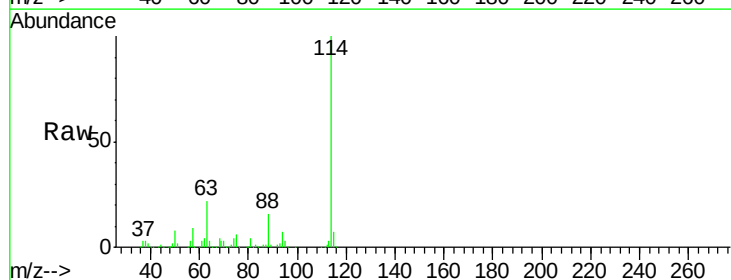
Instrument :  
 MSVOA\_U  
 ClientSampled :

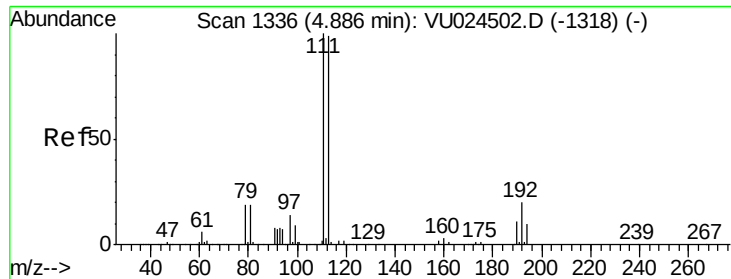
Tot Ion: 65 Resp: 142497  
 Ion Ratio Lower Upper  
 65 100  
 67 52.9 0.0 107.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.89 min Scan# 1648  
 Delta R.T. -0.00 min  
 Lab File: VU024849.D  
 Acq: 22 Jun 2018 22:15

Tgt Ion: 114 Resp: 299266  
 Ion Ratio Lower Upper  
 114 100  
 63 21.5 0.0 45.4  
 88 16.3 0.0 31.0

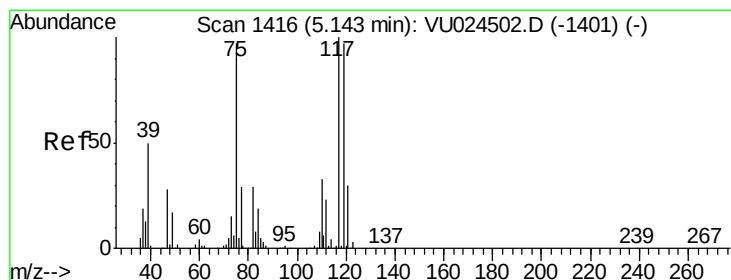
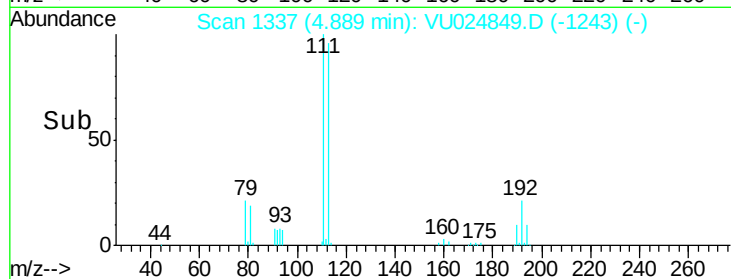
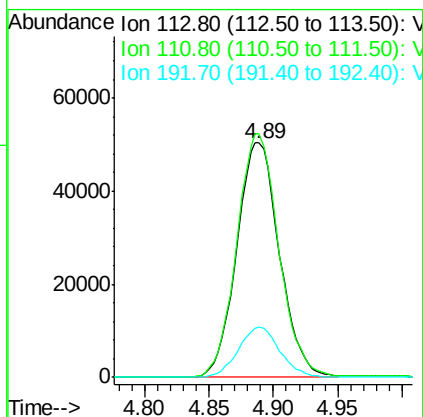
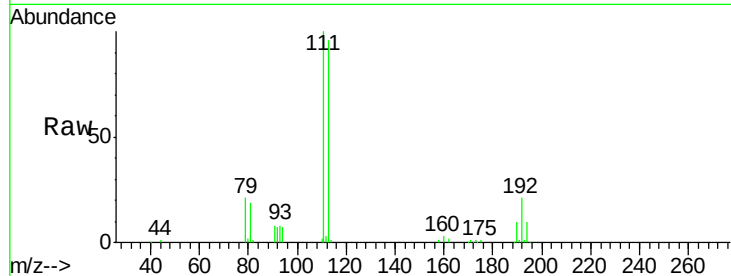




#35  
 Dibromofluoromethane  
 Concen: 46.76 ug/l  
 RT: 4.89 min Scan# 1337  
 Delta R.T. 0.00 min  
 Lab File: VU024849.D  
 Acq: 22 Jun 2018 22:15

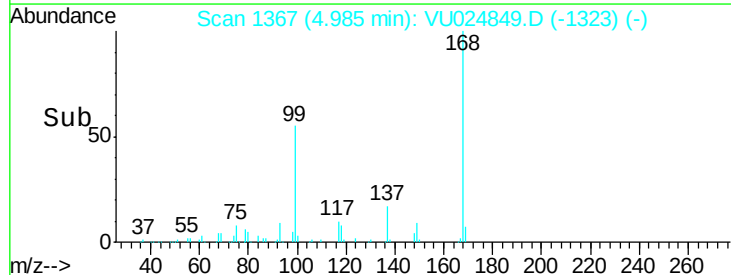
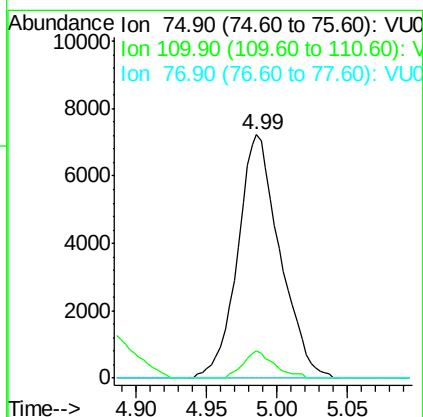
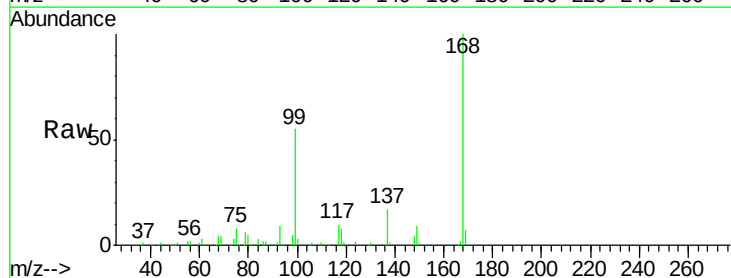
Instrument :  
 MSVOA\_U  
 ClientSampleId :

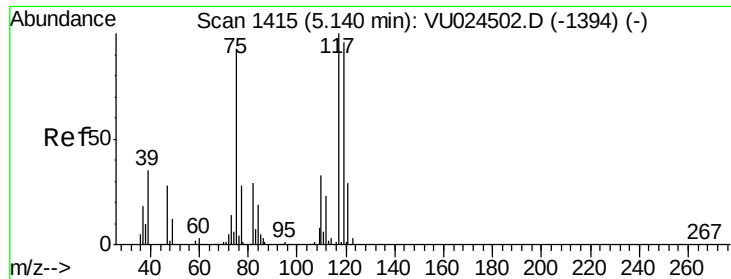
Tot Ion:113 Resp: 116144  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 82.2 123.4  
 192 20.9 16.2 24.4



#36  
 1,1-Dichloropropene  
 Concen: 4.29 ug/l  
 RT: 4.99 min Scan# 1367  
 Delta R.T. -0.16 min  
 Lab File: VU024849.D  
 Acq: 22 Jun 2018 22:15

Tgt Ion: 75 Resp: 15097  
 Ion Ratio Lower Upper  
 75 100  
 110 8.3 17.0 50.9#  
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 4.87 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

ClientSampleId :

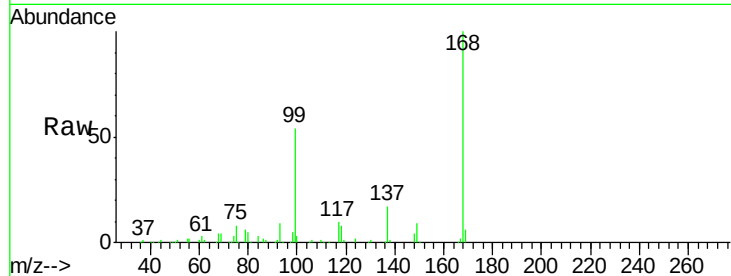
Tot Ion:117 Resp: 18820

Ion Ratio Lower Upper

117 100

119 5.5 76.1 114.1#

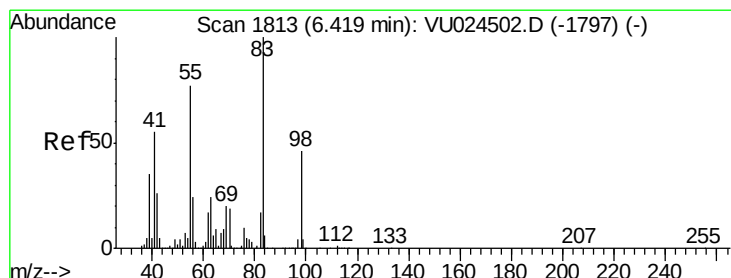
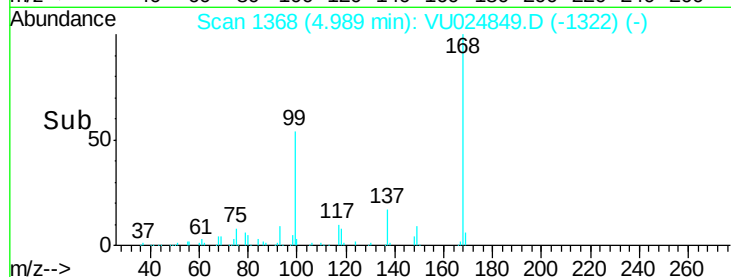
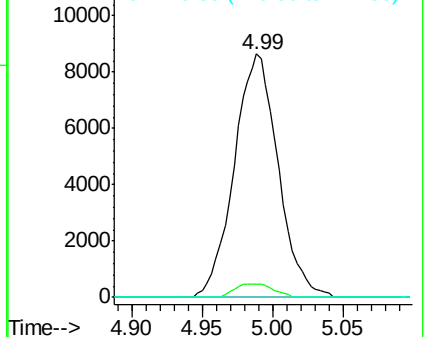
121 0.0 23.7 35.5#



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



#39

Methylcyclohexane

Concen: 0.39 ug/l

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

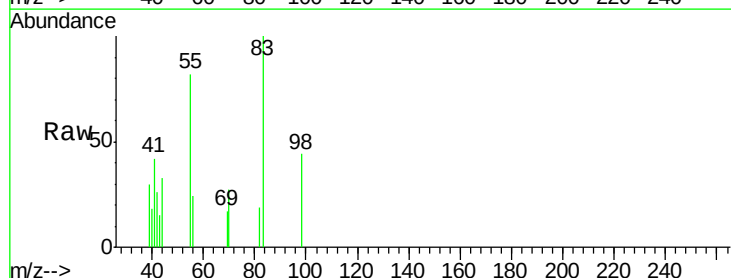
Tgt Ion: 83 Resp: 1718

Ion Ratio Lower Upper

83 100

55 63.9 65.8 98.6#

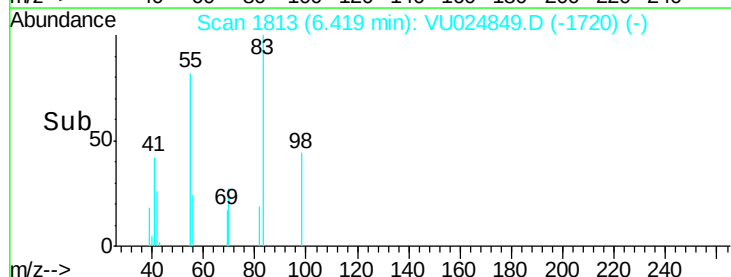
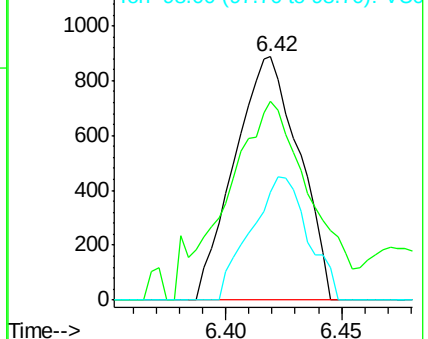
98 44.4 36.7 55.1

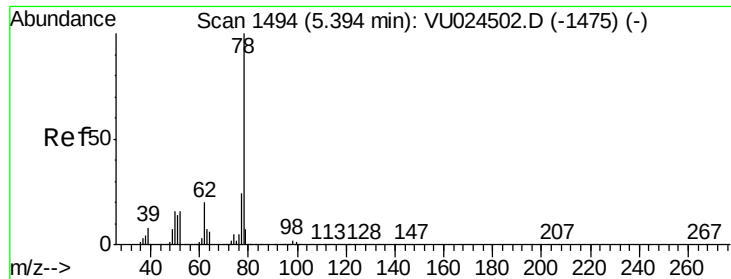


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#40

Benzene

Concen: 19.75 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

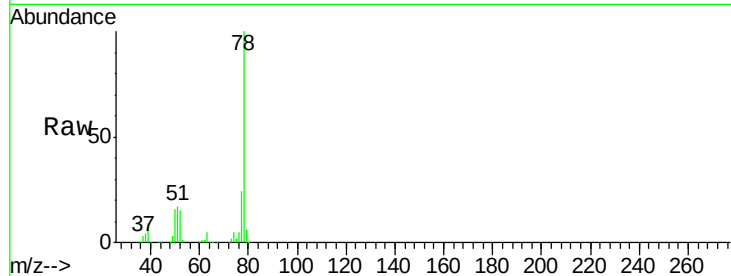
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 78 Resp: 197892

Ion Ratio Lower Upper

78 100

77 23.8 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39

100000

80000

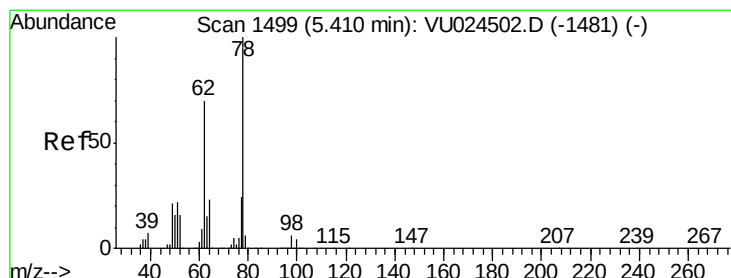
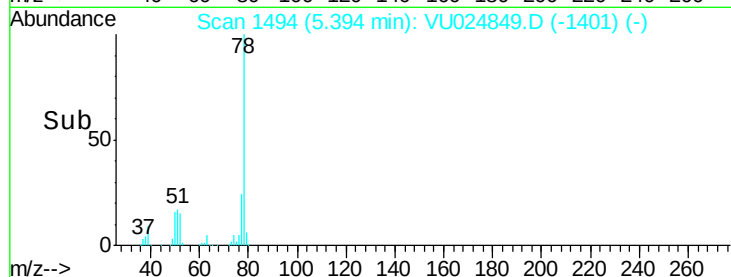
60000

40000

20000

0

Time-->



#42

1,2-Dichloroethane

Concen: 0.66 ug/l

RT: 5.40 min Scan# 1497

Delta R.T. -0.01 min

Lab File: VU024849.D

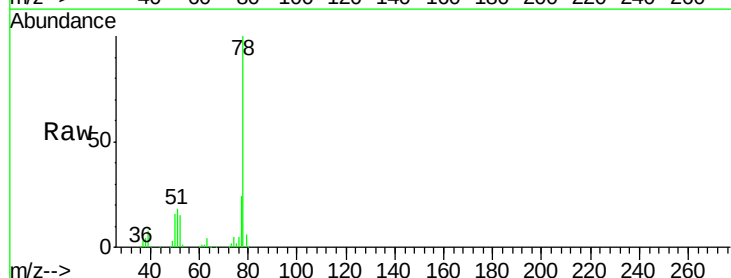
Acq: 22 Jun 2018 22:15

Tgt Ion: 62 Resp: 2506

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

5.40

1200

1000

800

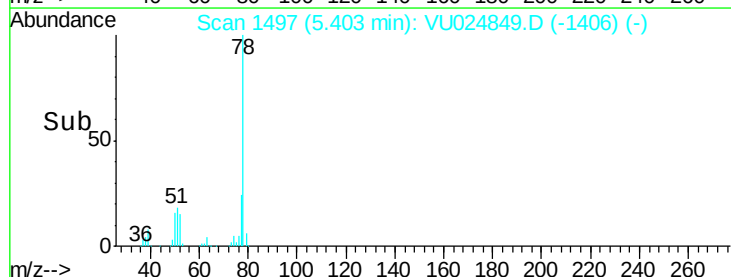
600

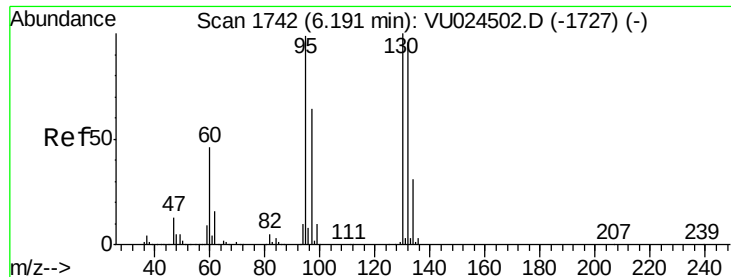
400

200

0

Time-->





#44

Trichloroethene

Concen: 1.08 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

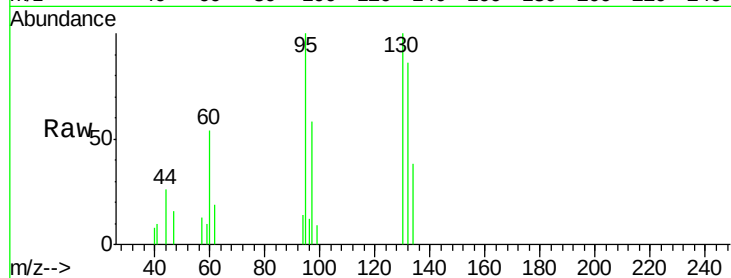
ClientSampleId :

Tot Ion:130 Resp: 3082

Ion Ratio Lower Upper

130 100

95 99.9 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024849.D (-1649) (-)

Ion 94.90 (94.60 to 95.60): VU024849.D (-1649) (-)

6.19

1500

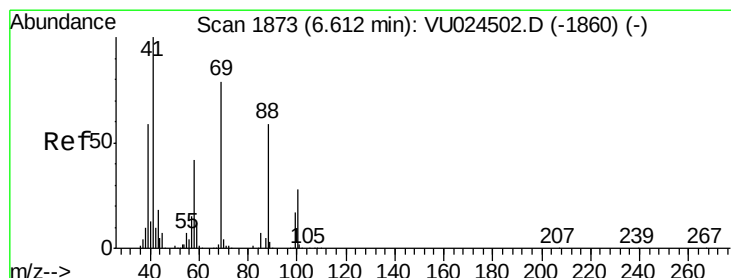
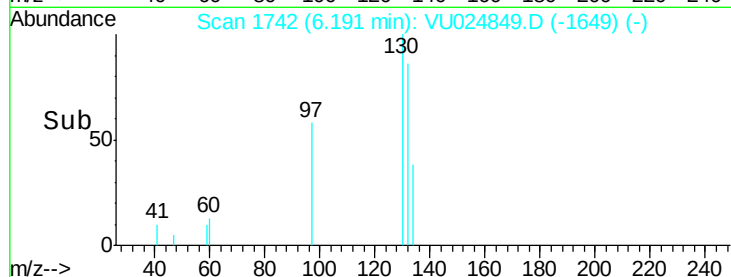
1000

500

0

6.15 6.20 6.25

Time-->



#49

1,4-Dioxane

Concen: 29.07 ug/l

RT: 6.62 min Scan# 1875

Delta R.T. 0.01 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

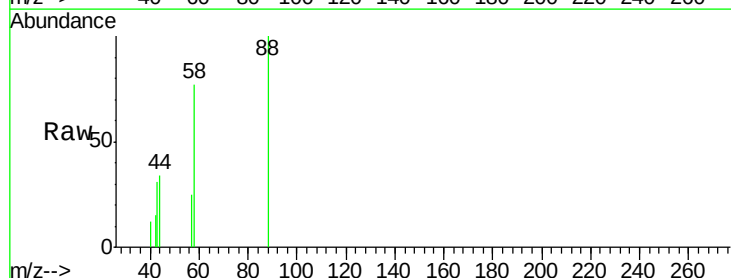
Tgt Ion: 88 Resp: 1834

Ion Ratio Lower Upper

88 100

43 26.7 28.6 42.8#

58 69.3 58.2 87.4



Abundance Ion 88.00 (87.70 to 88.70): VU024849.D (-1780) (-)

Ion 43.00 (42.70 to 43.70): VU024849.D (-1780) (-)

Ion 58.00 (57.70 to 58.70): VU024849.D (-1780) (-)

6.62

1200

1000

800

600

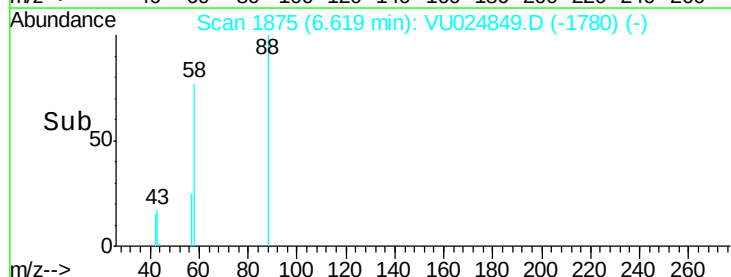
400

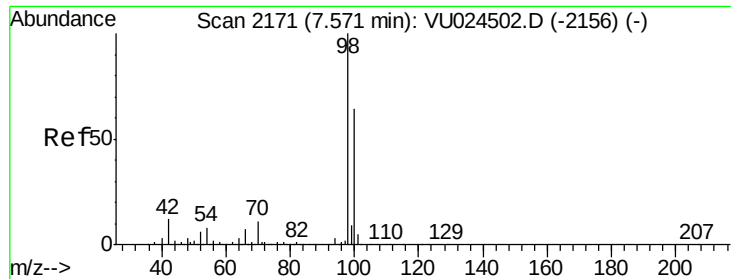
200

0

6.60 6.65

Time-->

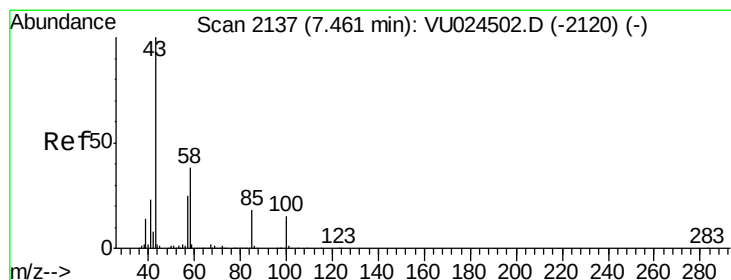
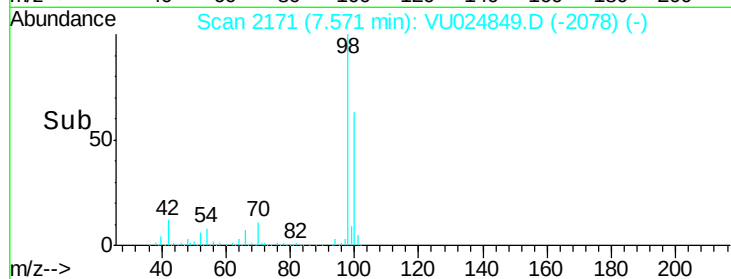
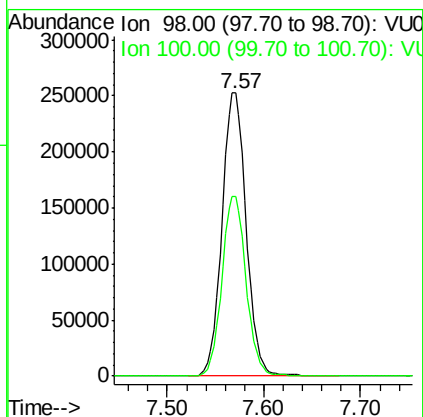
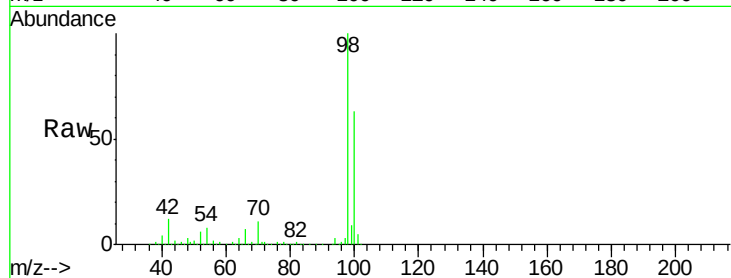




#50  
Toluene-d8  
Concen: 48.46 ug/l  
RT: 7.57 min Scan# 2171  
Delta R.T. 0.00 min  
Lab File: VU024849.D  
Acq: 22 Jun 2018 22:15

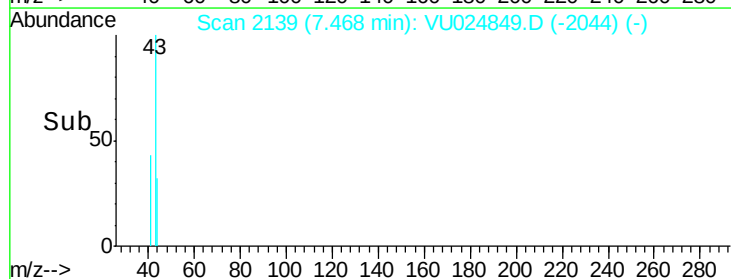
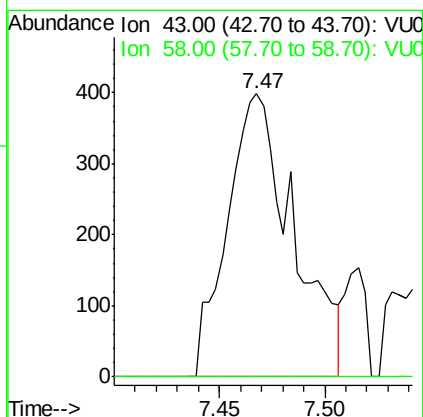
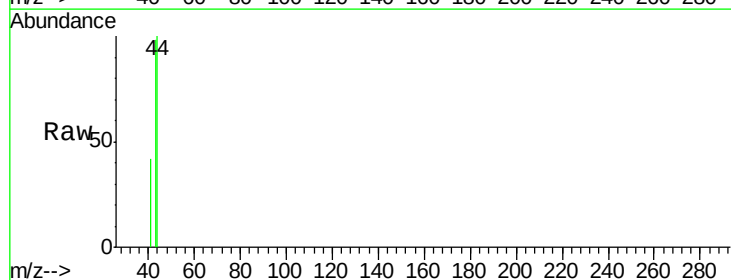
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 98 Resp: 438982  
Ion Ratio Lower Upper  
98 100  
100 63.3 51.1 76.7

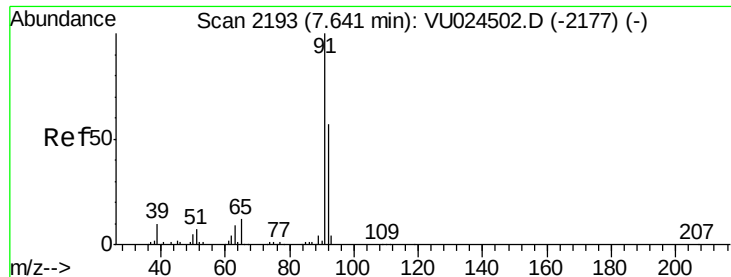


#51  
4-Methyl-2-Pentanone  
Concen: 0.21 ug/l  
RT: 7.47 min Scan# 2139  
Delta R.T. 0.01 min  
Lab File: VU024849.D  
Acq: 22 Jun 2018 22:15

Tgt Ion: 43 Resp: 864  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.0 45.0#







#52

Toluene

Concen: 1.00 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

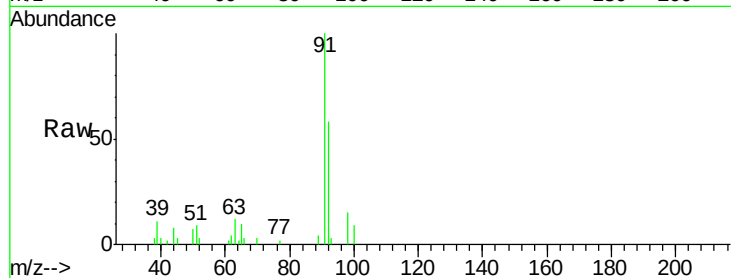
ClientSampleId :

Tot Ion: 92 Resp: 6452

Ion Ratio Lower Upper

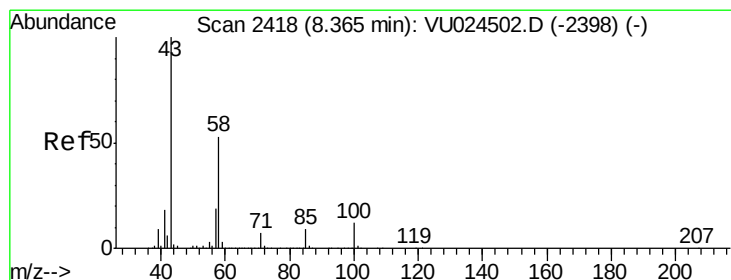
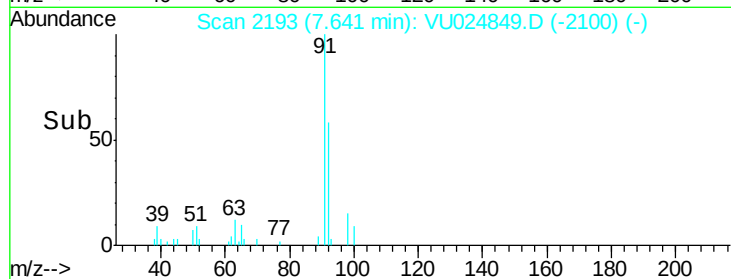
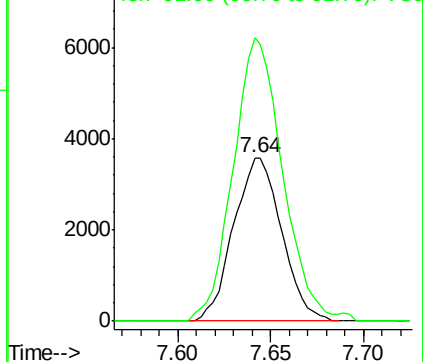
92 100

91 178.7 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#59

2-Hexanone

Concen: 2.27 ug/l

RT: 8.17 min Scan# 2357

Delta R.T. -0.20 min

Lab File: VU024849.D

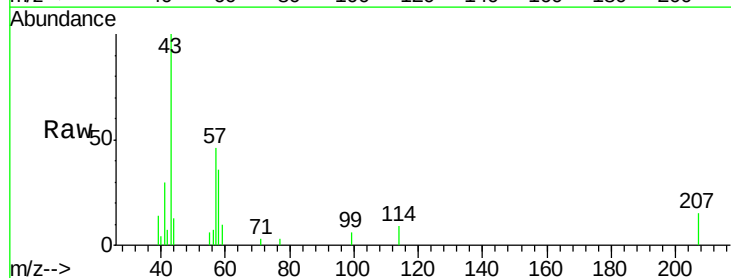
Acq: 22 Jun 2018 22:15

Tgt Ion: 43 Resp: 7708

Ion Ratio Lower Upper

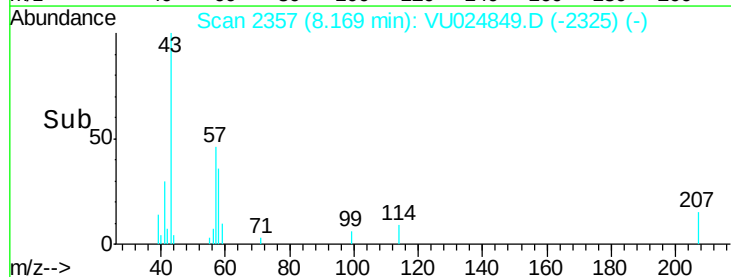
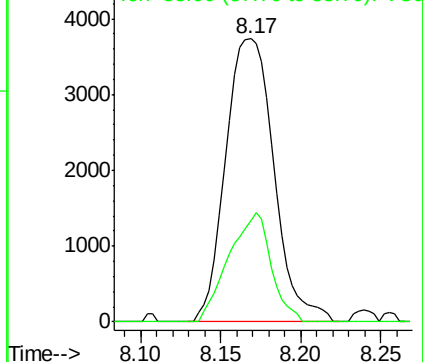
43 100

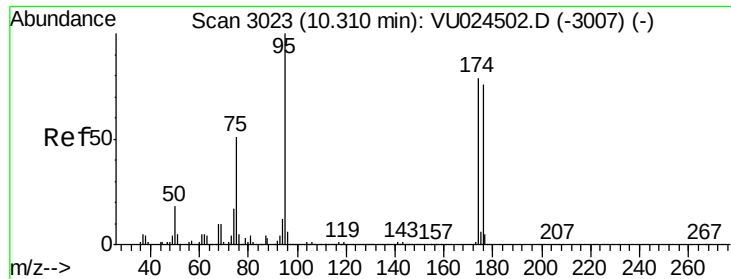
58 33.8 26.4 79.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

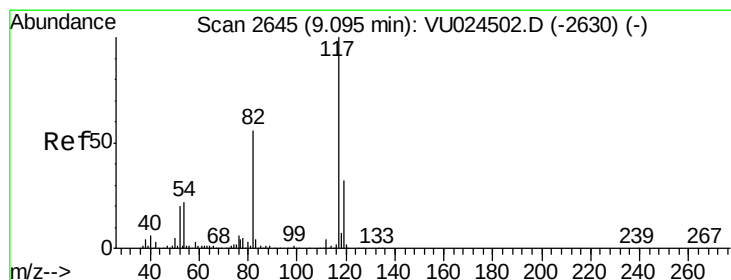
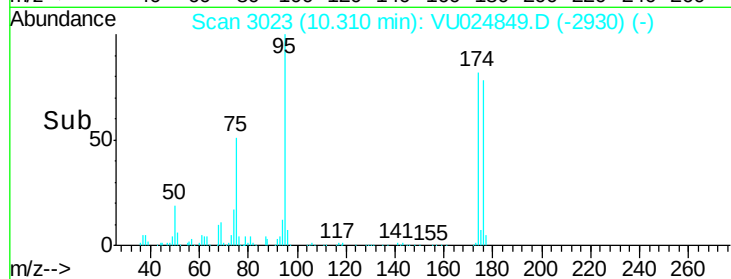
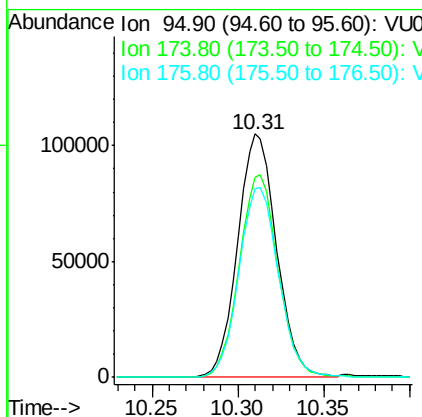
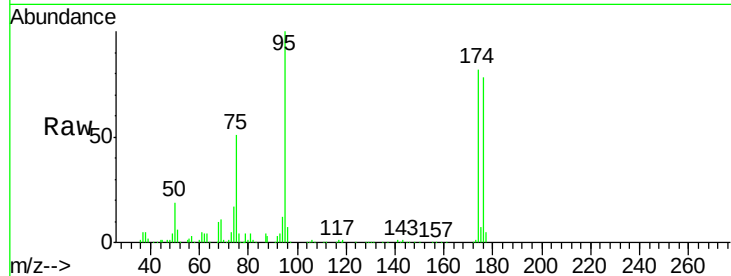




#62  
4-Bromofluorobenzene  
Concen: 46.00 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. 0.00 min  
Lab File: VU024849.D  
Acq: 22 Jun 2018 22:15

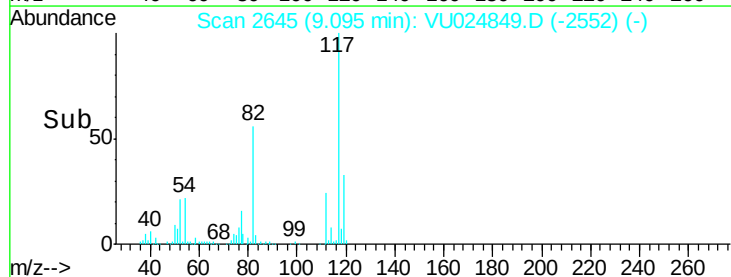
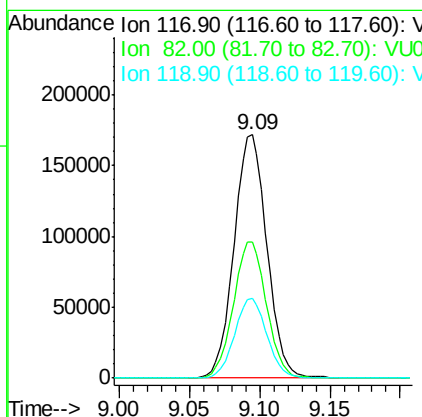
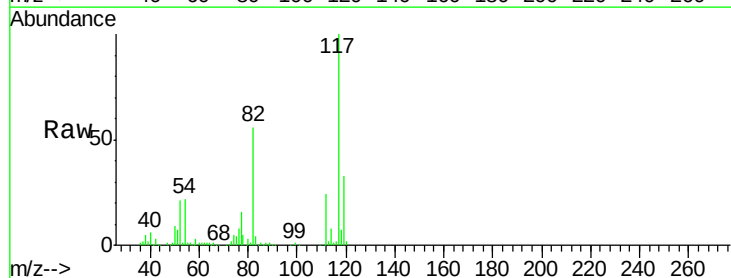
Instrument :  
MSVOA\_U  
ClientSampleId :

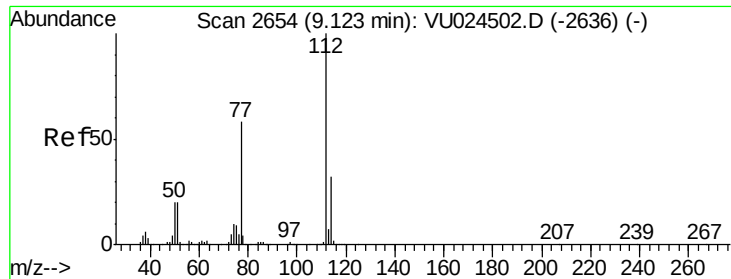
| Tot Ion   | 95   | Resp | 165464 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| 174       | 83.4 | 0.0  | 165.8  |
| 176       | 80.0 | 0.0  | 159.4  |



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VU024849.D  
Acq: 22 Jun 2018 22:15

| Tgt Ion   | 117  | Resp | 280958 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| 82        | 55.9 | 44.3 | 66.5   |
| 119       | 33.0 | 25.4 | 38.2   |

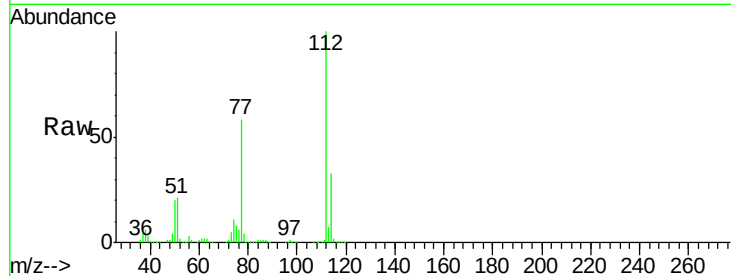




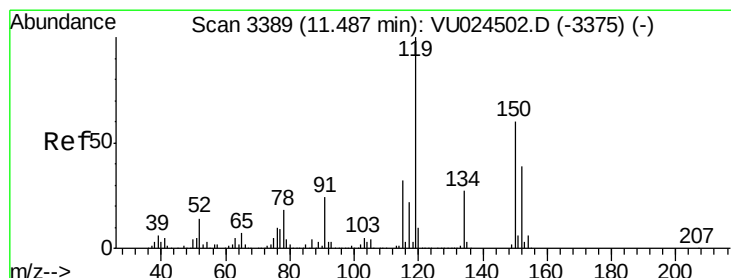
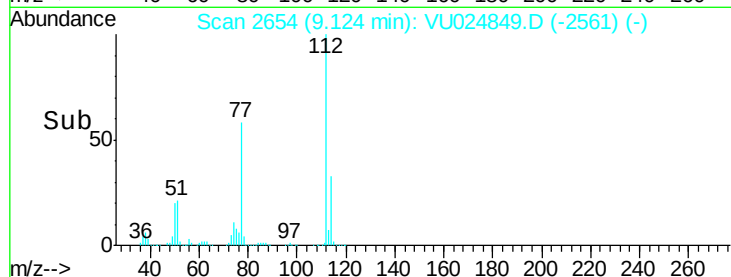
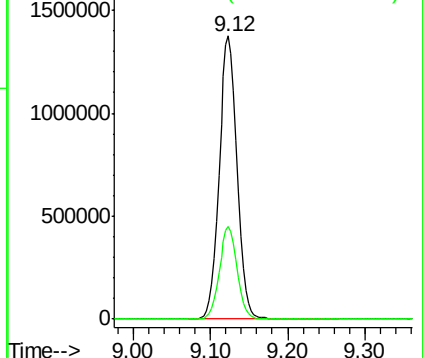
#65  
Chlorobenzene  
Concen: 310.23 ug/l  
RT: 9.12 min Scan# 2654  
Delta R.T. 0.00 min  
Lab File: VU024849.D  
Acq: 22 Jun 2018 22:15

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion:112 Resp: 2226671  
Ion Ratio Lower Upper  
112 100  
114 32.8 25.6 38.4

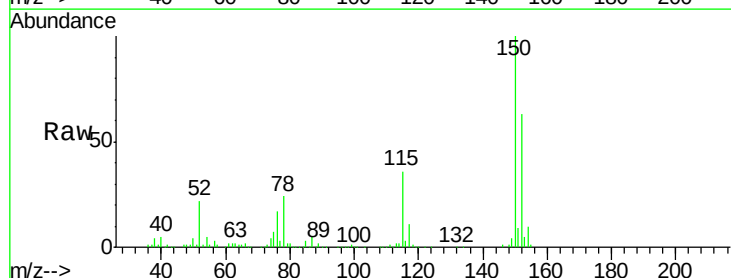


Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V

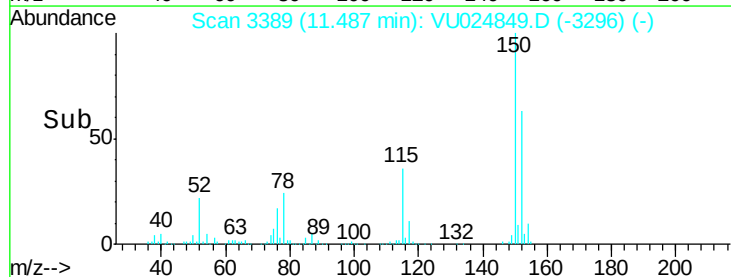
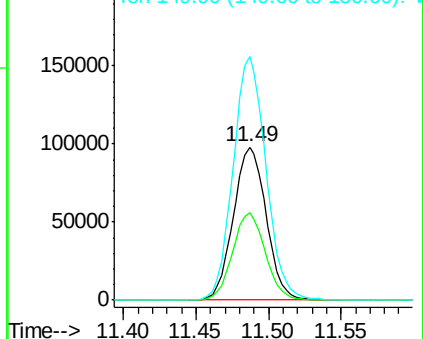


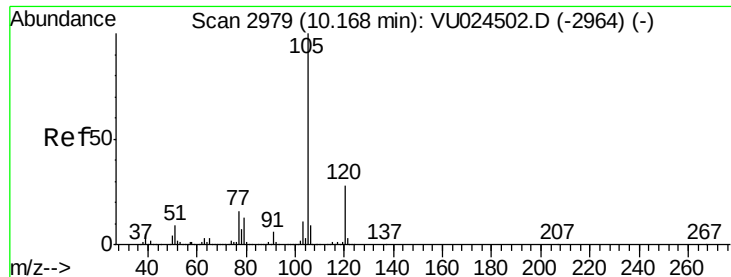
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 11.49 min Scan# 3389  
Delta R.T. 0.00 min  
Lab File: VU024849.D  
Acq: 22 Jun 2018 22:15

Tgt Ion:152 Resp: 154067  
Ion Ratio Lower Upper  
152 100  
115 56.6 43.0 129.0  
150 159.4 0.0 354.0



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





#73

Isopropylbenzene

Concen: 0.57 ug/l

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

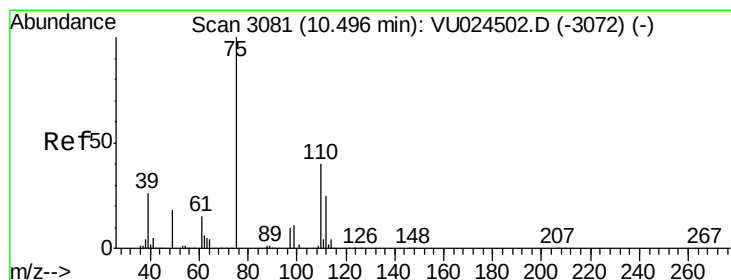
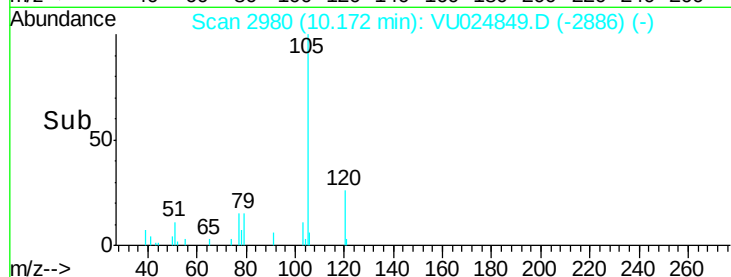
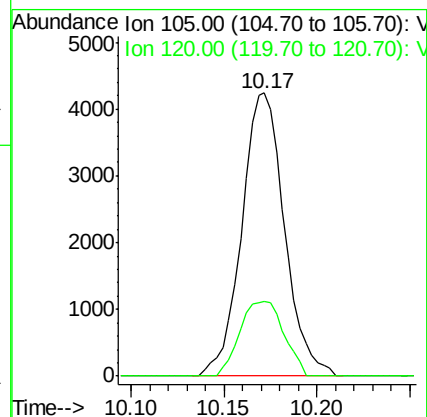
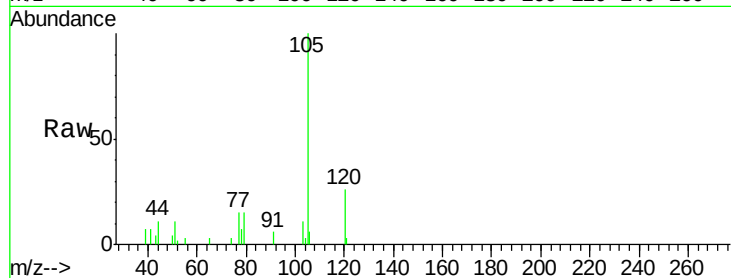
ClientSampled :

Tot Ion:105 Resp: 6794

Ion Ratio Lower Upper

105 100

120 27.2 13.2 39.6



#76

1,2,3-Trichloropropane

Concen: 24.98 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024849.D

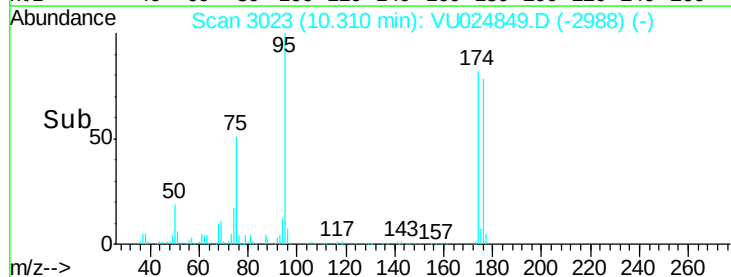
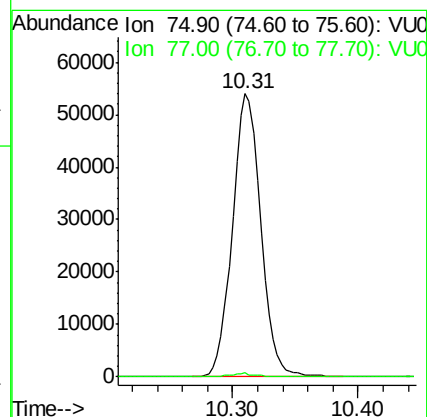
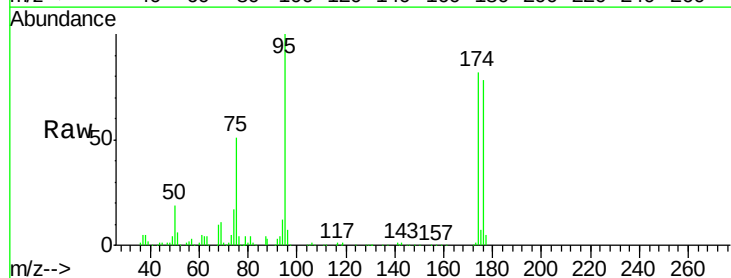
Acq: 22 Jun 2018 22:15

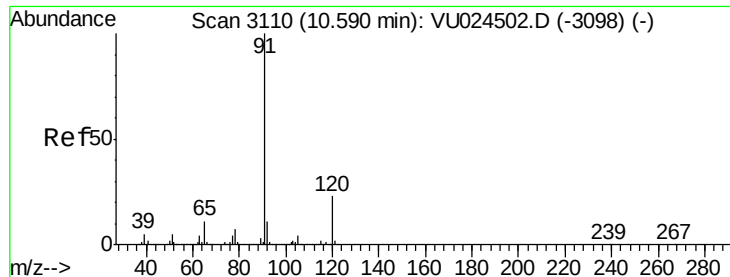
Tgt Ion: 75 Resp: 84723

Ion Ratio Lower Upper

75 100

77 1.2 20.9 62.7#





#78

n-propylbenzene

Concen: 0.25 ug/l

RT: 10.60 min Scan# 3112

Delta R.T. 0.01 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

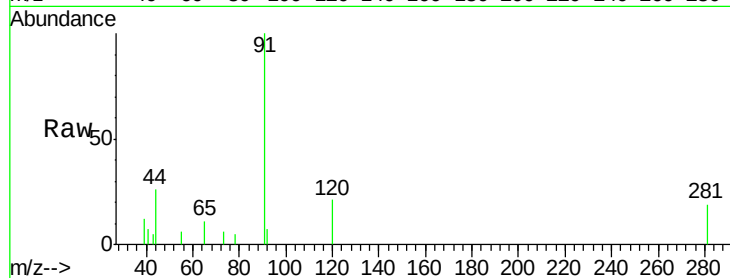
ClientSampleId :

Tot Ion: 91 Resp: 3481

Ion Ratio Lower Upper

91 100

120 20.4 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VU024502.D (-3098) (-)

Ion 120.00 (119.70 to 120.70): VU024502.D (-3098) (-)

10.60

2500

2000

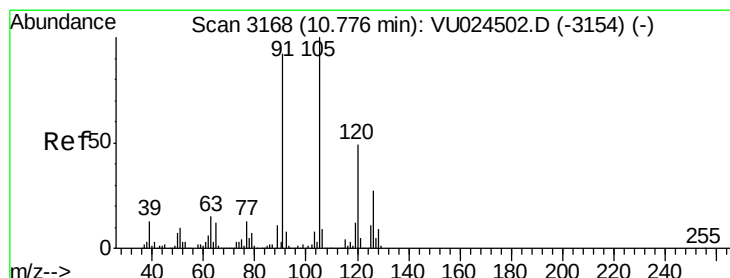
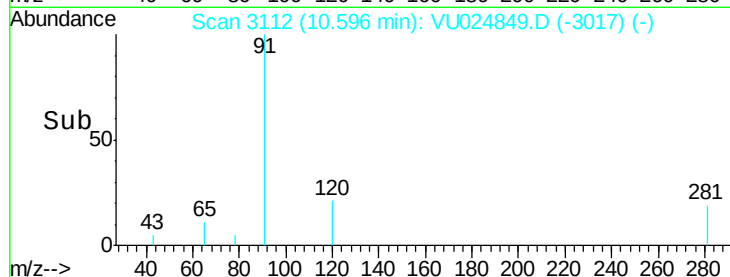
1500

1000

500

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 10.98 min Scan# 3230

Delta R.T. 0.20 min

Lab File: VU024849.D

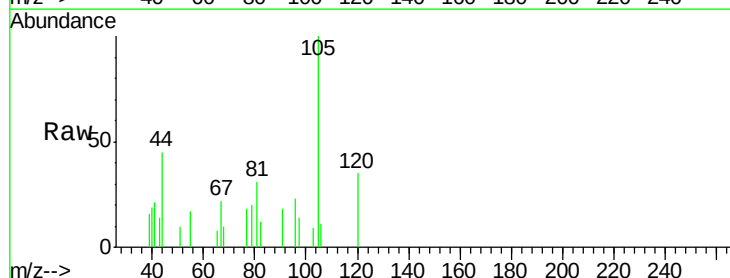
Acq: 22 Jun 2018 22:15

Tgt Ion: 105 Resp: 2149

Ion Ratio Lower Upper

105 100

120 28.5 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): VU024502.D (-3154) (-)

Ion 120.00 (119.70 to 120.70): VU024502.D (-3154) (-)

10.98

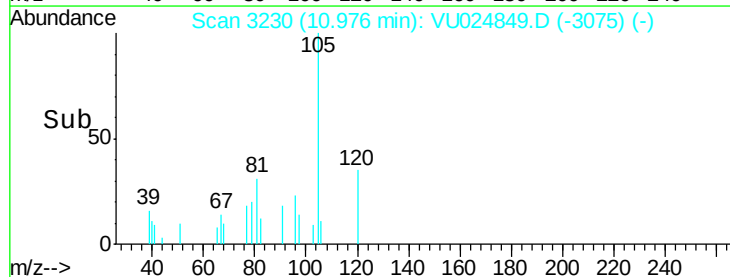
1500

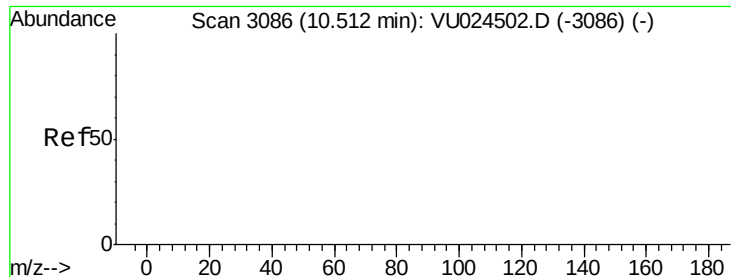
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 57.81 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

ClientSampleId :

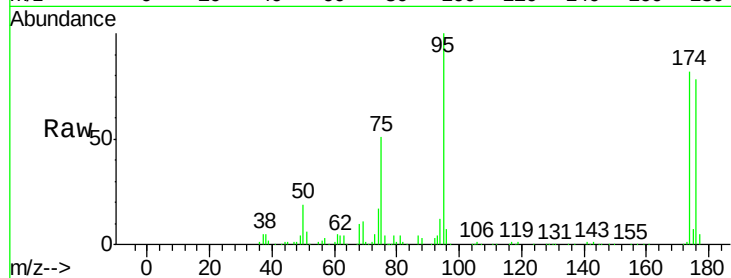
Tot Ion: 75 Resp: 84723

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

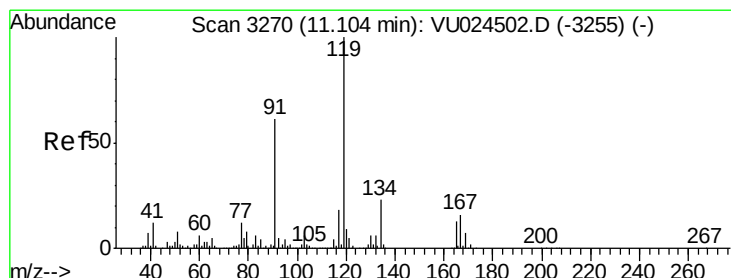
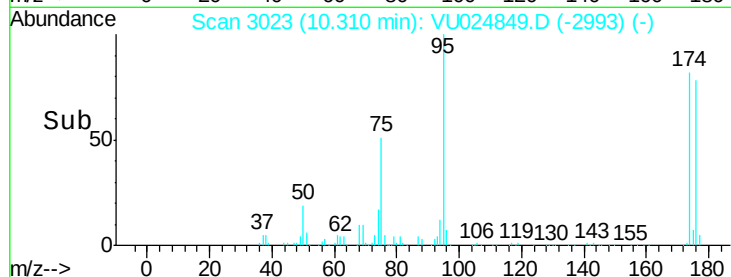
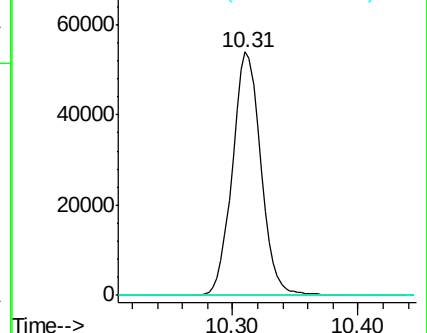
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU024502.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU024502.D (-3086) (-)



#83

tert-Butylbenzene

Concen: 3.14 ug/l

RT: 11.10 min Scan# 3270

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

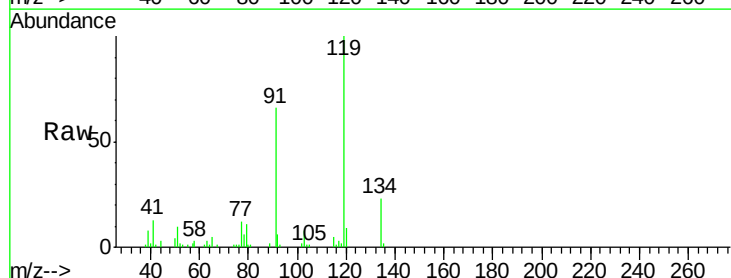
Tgt Ion: 119 Resp: 30942

Ion Ratio Lower Upper

119 100

91 66.3 29.7 89.1

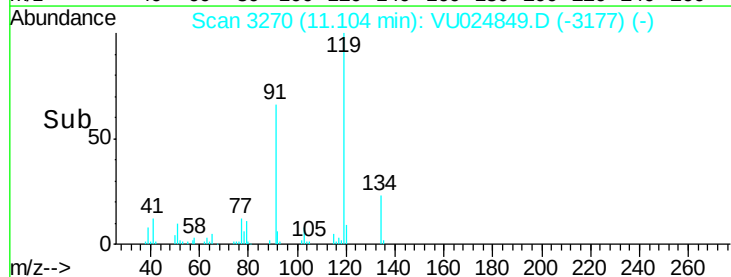
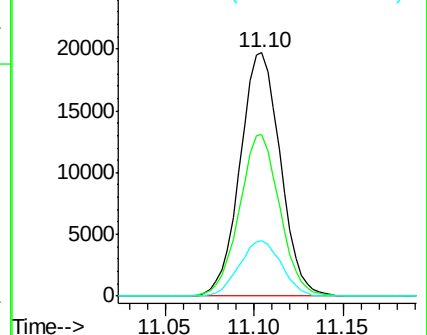
134 23.6 11.6 34.7

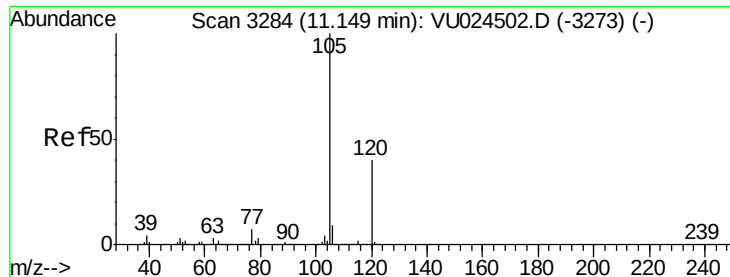


Abundance Ion 119.00 (118.70 to 119.70): VU024502.D (-3255) (-)

Ion 91.00 (90.70 to 91.70): VU024502.D (-3255) (-)

Ion 134.00 (133.70 to 134.70): VU024502.D (-3255) (-)

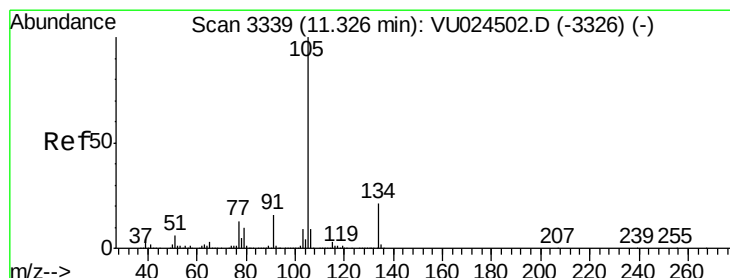
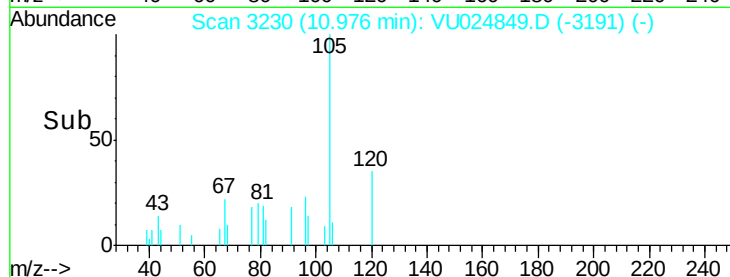
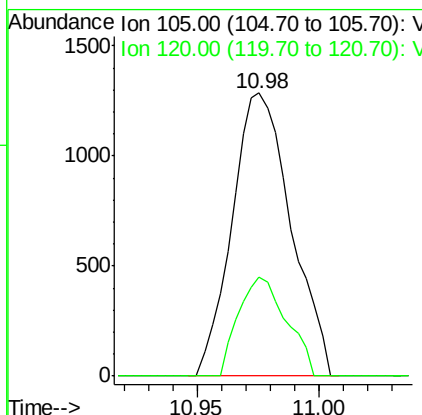
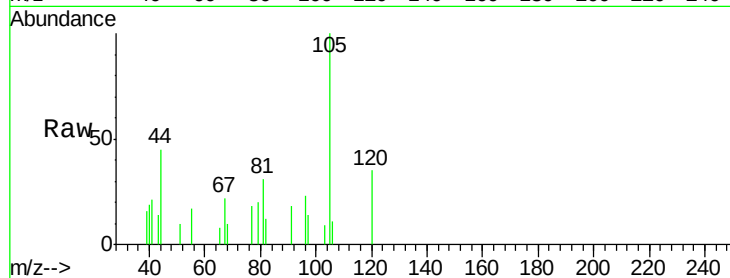




#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.21 ug/l  
 RT: 10.98 min Scan# 3230  
 Delta R.T. -0.17 min  
 Lab File: VU024849.D  
 Acq: 22 Jun 2018 22:15

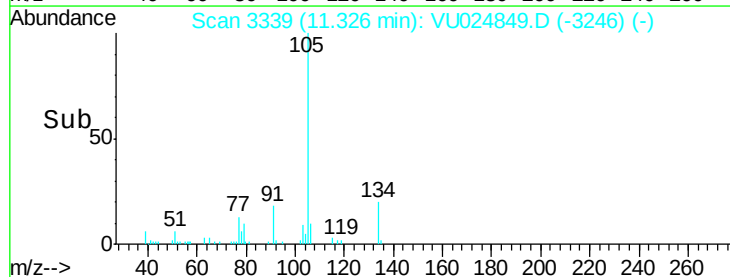
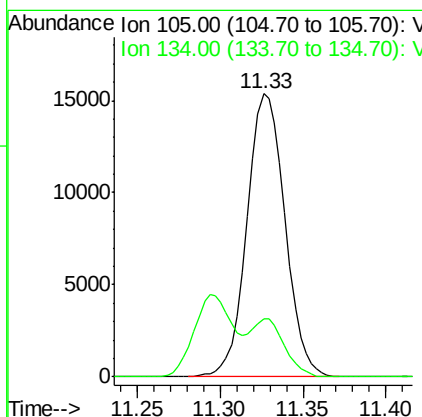
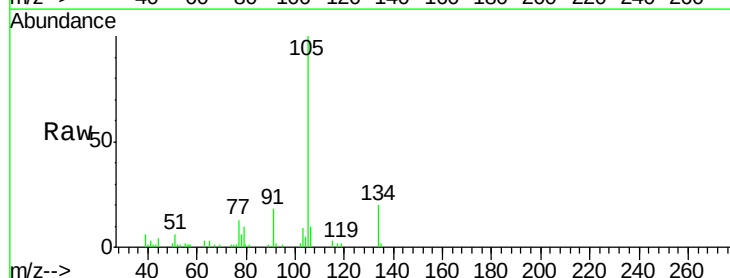
Instrument :  
 MSVOA\_U  
 ClientSampled :

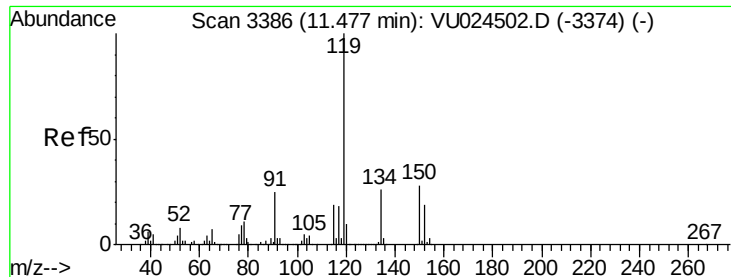
Tot Ion:105 Resp: 2149  
 Ion Ratio Lower Upper  
 105 100  
 120 28.5 22.6 67.8



#85  
 sec-Butylbenzene  
 Concen: 1.99 ug/l  
 RT: 11.33 min Scan# 3339  
 Delta R.T. 0.00 min  
 Lab File: VU024849.D  
 Acq: 22 Jun 2018 22:15

Tgt Ion:105 Resp: 24553  
 Ion Ratio Lower Upper  
 105 100  
 134 16.7 9.7 29.1





#86

p-Isopropyltoluene

Concen: 3.04 ug/l

RT: 11.69 min Scan# 3453

Delta R.T. 0.22 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

ClientSampled :

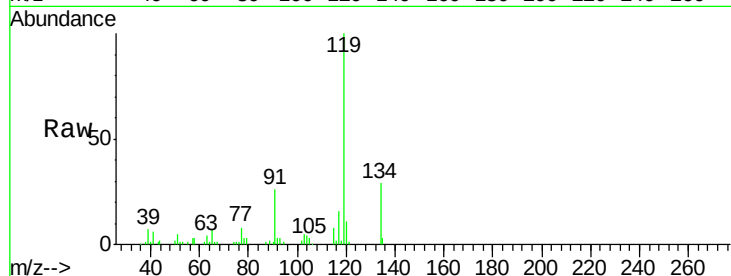
Tot Ion:119 Resp: 33618

Ion Ratio Lower Upper

119 100

134 29.4 12.9 38.6

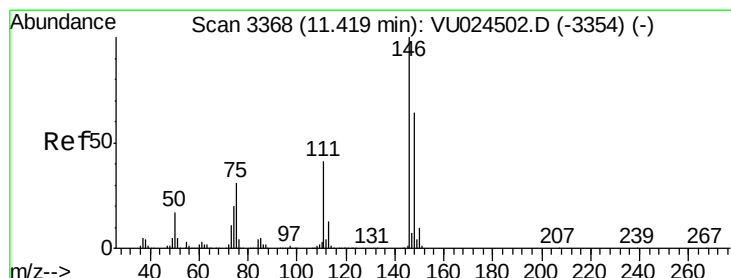
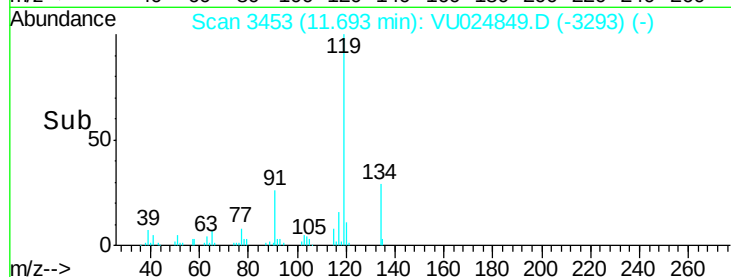
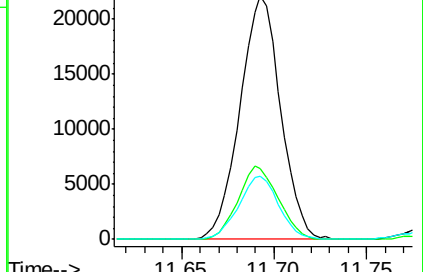
91 25.6 12.0 36.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#87

1,3-Dichlorobenzene

Concen: 1.92 ug/l

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

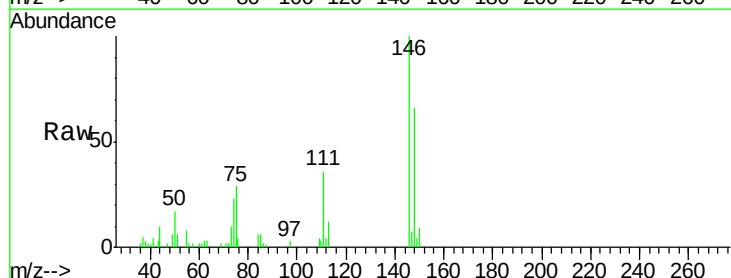
Tgt Ion:146 Resp: 10627

Ion Ratio Lower Upper

146 100

111 39.0 20.0 60.0

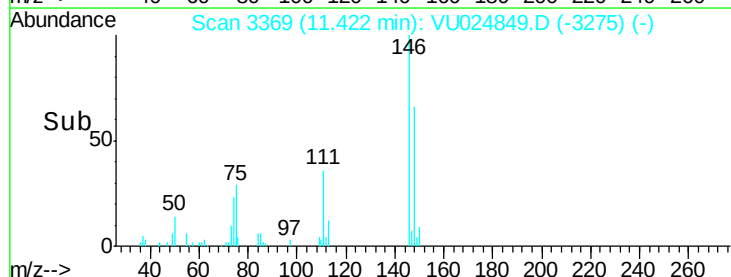
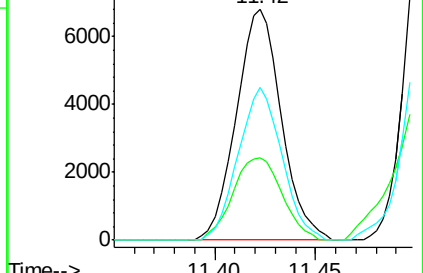
148 64.1 32.1 96.5



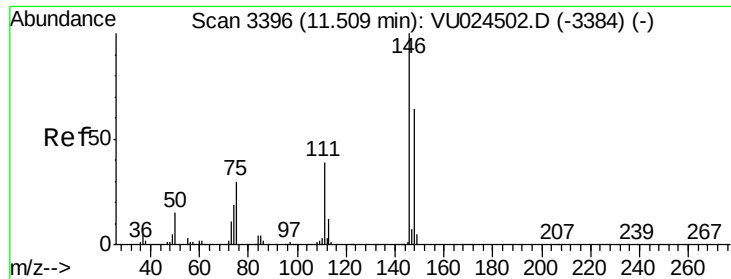
Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



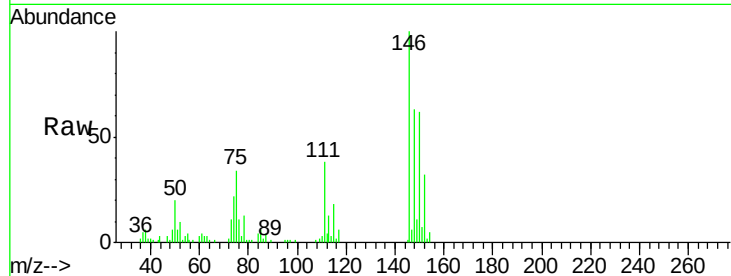




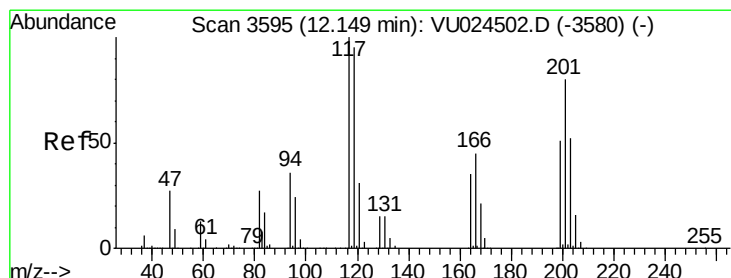
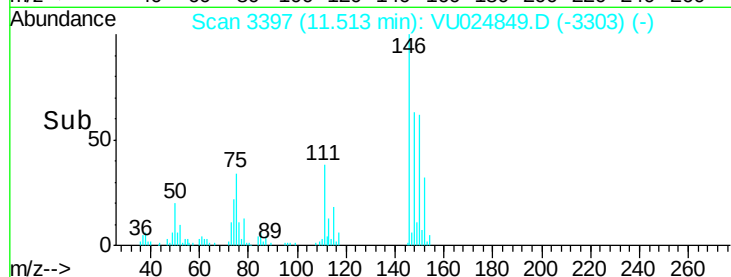
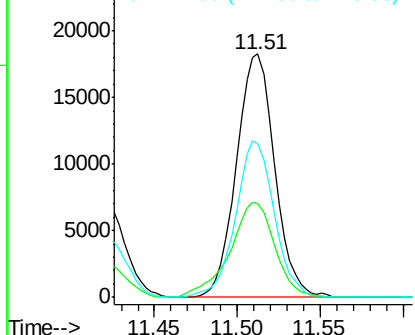
#88  
 1,4-Dichlorobenzene  
 Concen: 5.27 ug/l  
 RT: 11.51 min Scan# 3397  
 Delta R.T. 0.00 min  
 Lab File: VU024849.D  
 Acq: 22 Jun 2018 22:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 45.7  | 19.5  | 58.5  |
| 148     | 64.7  | 32.4  | 97.0  |

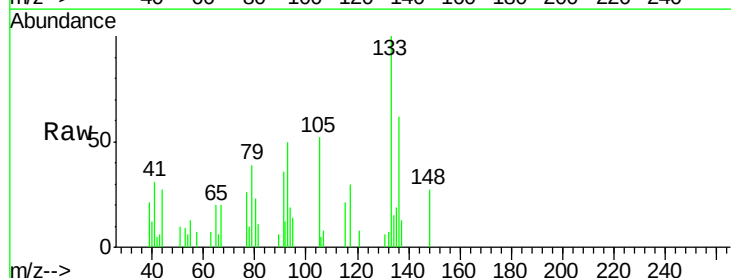


Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

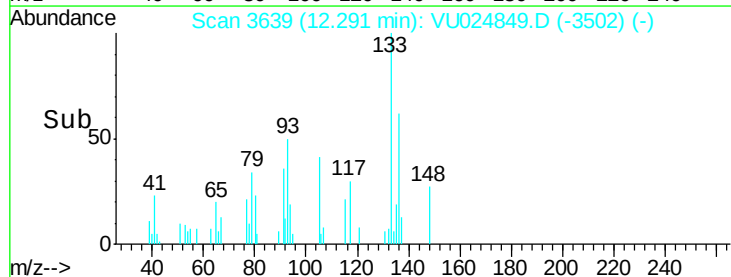
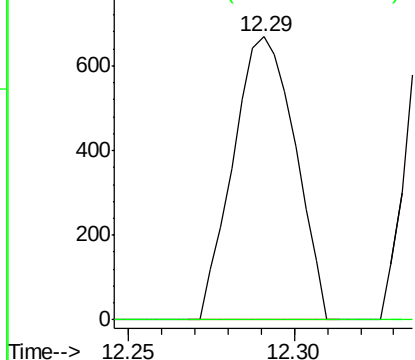


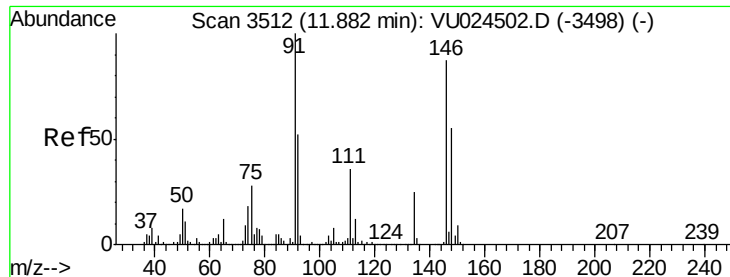
#90  
 Hexachloroethane  
 Concen: 0.40 ug/l  
 RT: 12.29 min Scan# 3639  
 Delta R.T. 0.14 min  
 Lab File: VU024849.D  
 Acq: 22 Jun 2018 22:15

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 201     | 0.0   | 41.1  | 123.3# |



Abundance Ion 116.80 (116.50 to 117.50): V  
 Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 11.36 ug/l

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

Instrument :

MSVOA\_U

ClientSampleId :

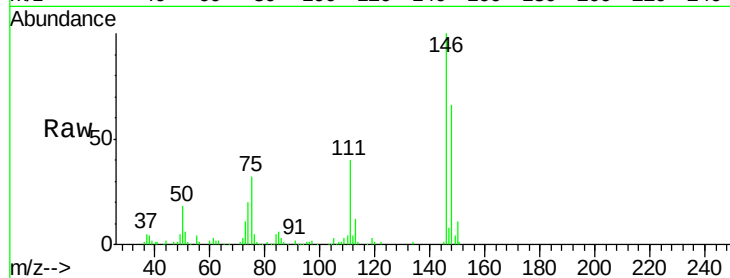
Tot Ion:146 Resp: 62944

Ion Ratio Lower Upper

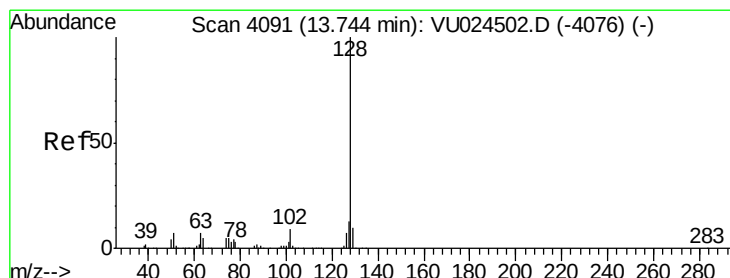
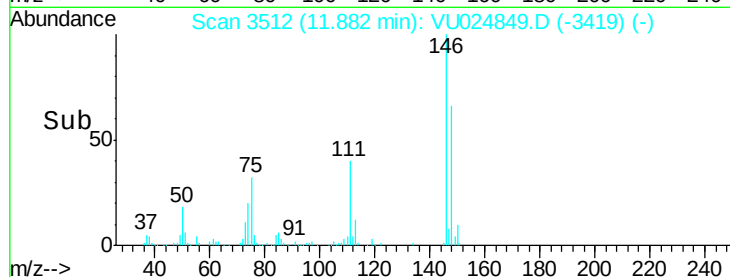
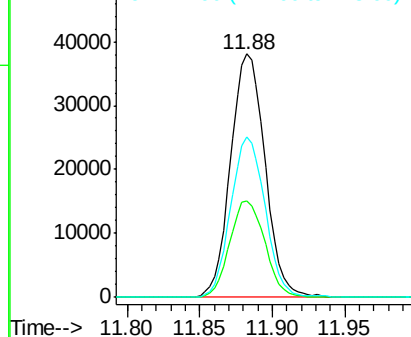
146 100

111 40.5 20.5 61.6

148 65.9 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 1.09 ug/l

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

Lab File: VU024849.D

Acq: 22 Jun 2018 22:15

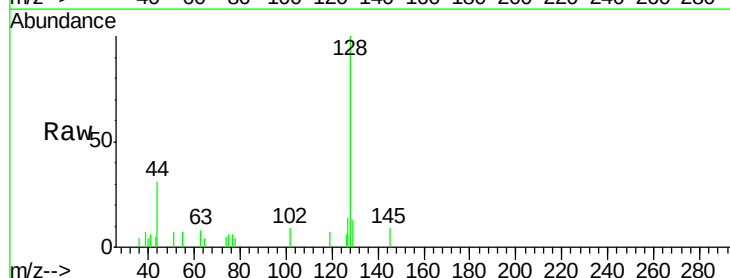
Tgt Ion:128 Resp: 4726

Ion Ratio Lower Upper

128 100

127 12.3 10.6 16.0

129 12.1 8.6 12.8



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

