

Data Path : W:\HPCHEM1\MSVOA\_U\DATA\VU052118\  
 Data File : VU023981.D  
 Acq On : 21 May 2018 20:44  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 22 01:10:18 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_U\METHOD\SOMULM051218WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue May 22 01:05:00 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 308040   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 301465   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 153236   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 109270   | 38.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 76.34%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 87144    | 38.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 77.28%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 211264   | 40.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.46%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 220125   | 110.51   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 110.51% |
| 24) Chloroform-d               | 4.65    | 84    | 209930   | 48.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.10%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 137717   | 47.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.82%  |
| 32) Benzene-d6                 | 5.35    | 84    | 404339   | 45.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.90%  |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 141549   | 47.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.24%  |
| 41) Toluene-d8                 | 7.57    | 98    | 386699   | 47.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.38%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 61055    | 48.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.66%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 152109   | 111.02   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 111.02% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 212830   | 50.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 101.68% |
| 64) 1,2-Dichlorobenzene-d4     | 11.87   | 152   | 158332   | 47.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.68%  |

## Target Compounds

|                                |      |     |        |        |      | Qvalue |
|--------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 128628 | 40.84  | ug/L | 99     |
| 3) Chloromethane               | 1.33 | 50  | 133704 | 45.64  | ug/L | 100    |
| 5) Vinyl chloride              | 1.40 | 62  | 146040 | 43.02  | ug/L | 99     |
| 6) Bromomethane                | 1.62 | 94  | 53899  | 39.83  | ug/L | 99     |
| 8) Chloroethane                | 1.70 | 64  | 90417  | 42.48  | ug/L | 98     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 175405 | 41.38  | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 101607 | 39.27  | ug/L | 97     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 94384  | 41.02  | ug/L | 90     |
| 13) Acetone                    | 2.32 | 43  | 170055 | 84.75  | ug/L | 97     |
| 14) Carbon disulfide           | 2.47 | 76  | 272300 | 44.40  | ug/L | 99     |
| 15) Methyl Acetate             | 2.62 | 43  | 174997 | 52.00  | ug/L | 98     |
| 16) Methylene chloride         | 2.70 | 84  | 128881 | 47.10  | ug/L | 95     |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 105175 | 46.35  | ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 360224 | 49.45  | ug/L | 98     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 231035 | 47.90  | ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 127440 | 48.09  | ug/L | 98     |
| 22) 2-Butanone                 | 4.27 | 43  | 258528 | 105.87 | ug/L | 98     |

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 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

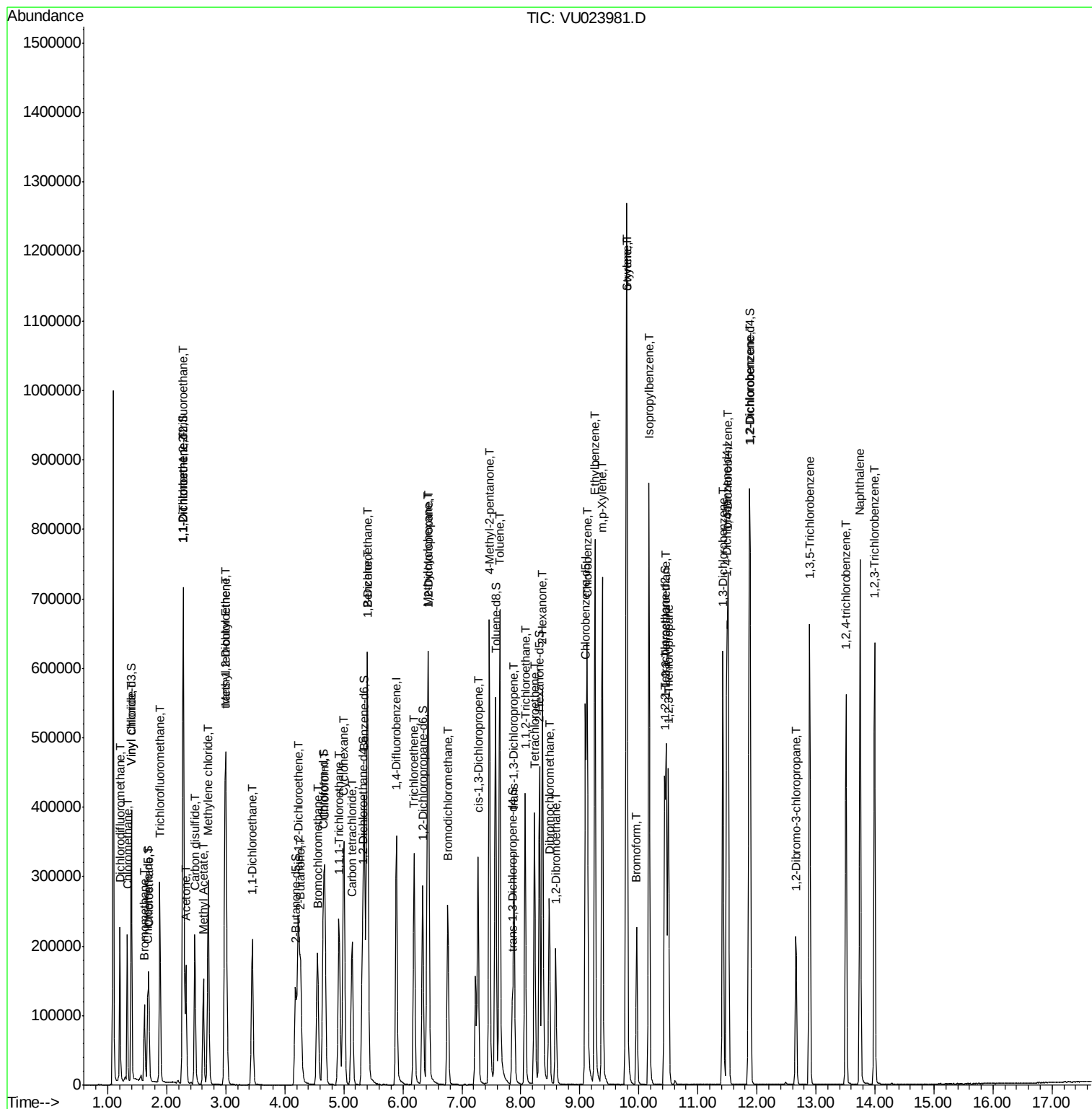
Quant Time: May 22 01:10:18 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_U\METHOD\SOMULM051218WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue May 22 01:05:00 2018  
 Response via : Initial Calibration

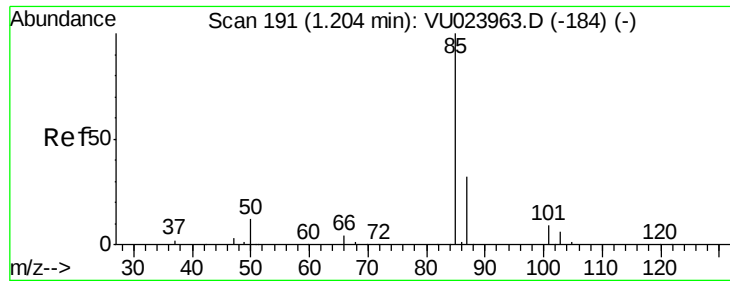
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.55  | 128  | 62415    | 45.47  | ug/L  | 93       |
| 25) Chloroform                 | 4.68  | 83   | 233149   | 47.83  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.41  | 62   | 183089   | 49.40  | ug/L  | 99       |
| 29) Cyclohexane                | 5.00  | 56   | 181647   | 50.17  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane      | 4.92  | 97   | 181234   | 48.14  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.14  | 117  | 150151   | 46.27  | ug/L  | 100      |
| 33) Benzene                    | 5.39  | 78   | 489870   | 49.39  | ug/L  | 100      |
| 34) Trichloroethene            | 6.19  | 95   | 116804   | 46.17  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.42  | 83   | 170653   | 47.53  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.44  | 63   | 145285   | 49.50  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.76  | 83   | 170618   | 49.06  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 194507   | 50.21  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 464585   | 112.36 | ug/L  | 97       |
| 42) Toluene                    | 7.64  | 91   | 520801   | 50.39  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 178941   | 50.16  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 129327   | 49.05  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.23  | 164  | 91710    | 44.34  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.36  | 43   | 375622   | 111.86 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.48  | 129  | 135825   | 48.46  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 130522   | 48.54  | ug/L  | 100      |
| 51) Chlorobenzene              | 9.12  | 112  | 334341   | 47.68  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.26  | 91   | 559603   | 50.22  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.38  | 106  | 210473   | 49.84  | ug/L  | 96       |
| 54) o-xylene                   | 9.79  | 106  | 206284   | 50.28  | ug/L  | 98       |
| 55) Styrene                    | 9.80  | 104  | 371103   | 51.73  | ug/L  | 96       |
| 56) Isopropylbenzene           | 10.17 | 105  | 539194   | 49.97  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 235369   | 49.61  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.50 | 75   | 193444   | 50.79  | ug/L  | 98       |
| 61) Bromoform                  | 9.96  | 173  | 101602   | 46.92  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 253445   | 47.49  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 267685   | 47.33  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.89 | 146  | 271462   | 47.16  | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 52221    | 51.44  | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 206623   | 46.82  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.51 | 180  | 175877   | 48.66  | ug/L  | 99       |
| 69) Naphthalene                | 13.75 | 128  | 574663   | 55.85  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 194234   | 50.22  | ug/L  | 99       |

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

```
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Acq On    : 21 May 2018   20:44  
Operator  : MD/SY  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_U/WATER  
ALS Vial  : 21      Sample Multiplier: 1
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Quant Time: May 22 01:10:18 2018  
Quant Method : W:\HPCHEM1\MSVOA\_U\METHOD\SOMULM051218WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue May 22 01:05:00 2018  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 40.84 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU023981.D

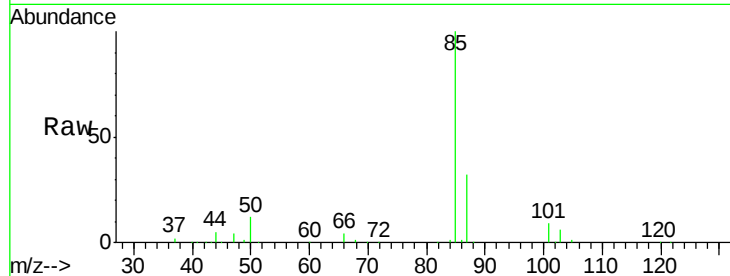
Acq: 21 May 2018 20:44

Tgt Ion: 85 Resp: 128628

Ion Ratio Lower Upper

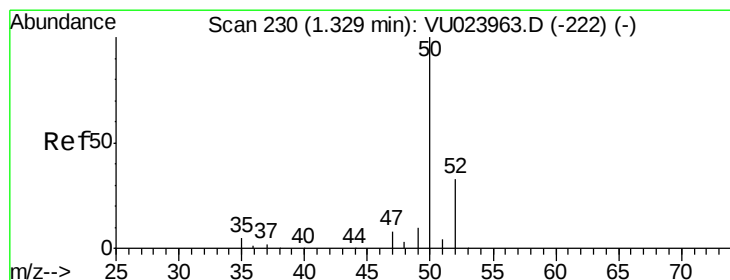
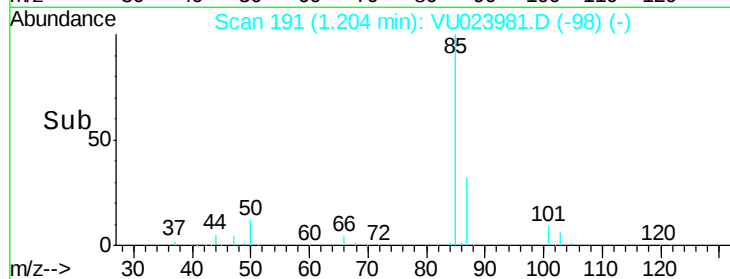
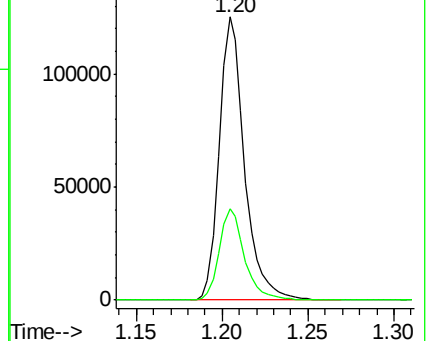
85 100

87 32.3 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 45.64 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU023981.D

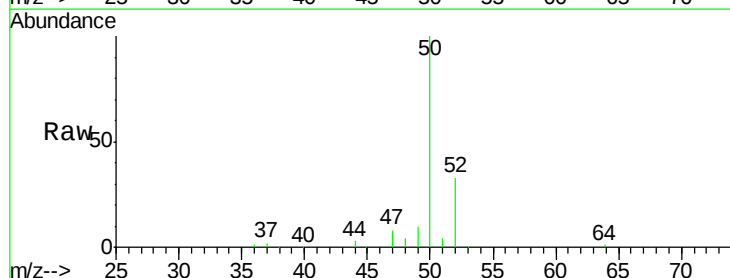
Acq: 21 May 2018 20:44

Tgt Ion: 50 Resp: 133704

Ion Ratio Lower Upper

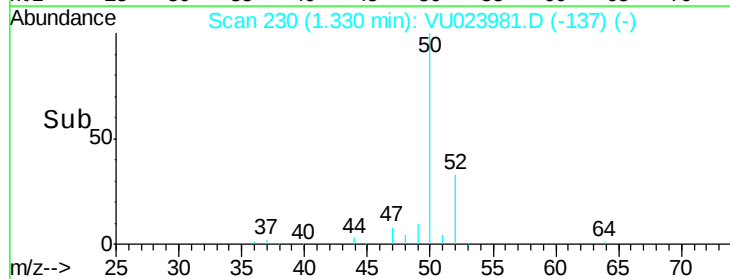
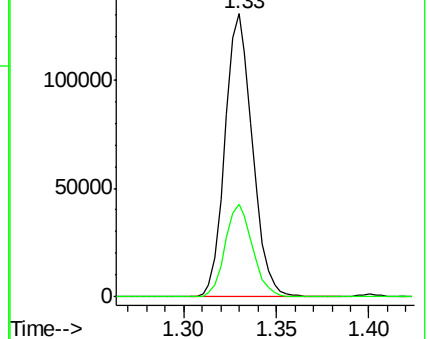
50 100

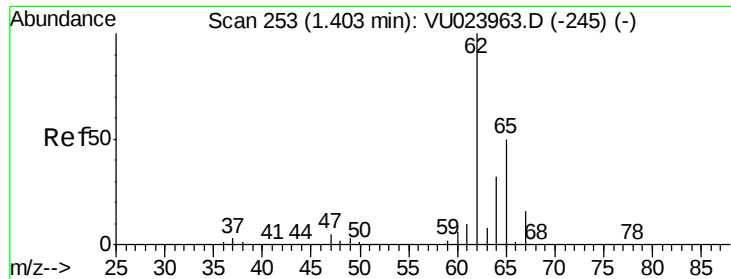
52 32.9 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 43.02 ug/L

RT: 1.40 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU023981.D

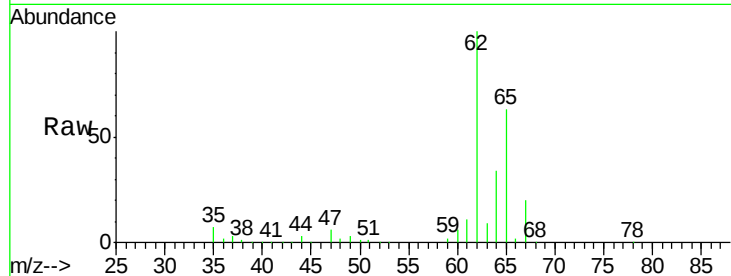
Acq: 21 May 2018 20:44

Tgt Ion: 62 Resp: 146040

Ion Ratio Lower Upper

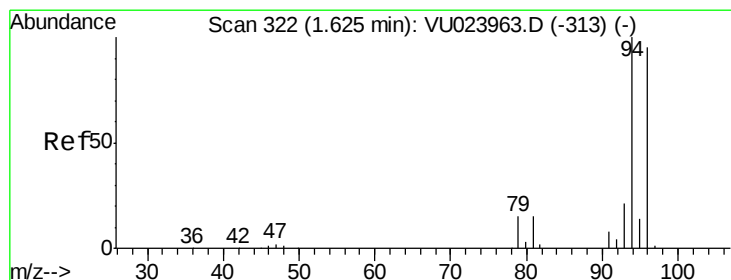
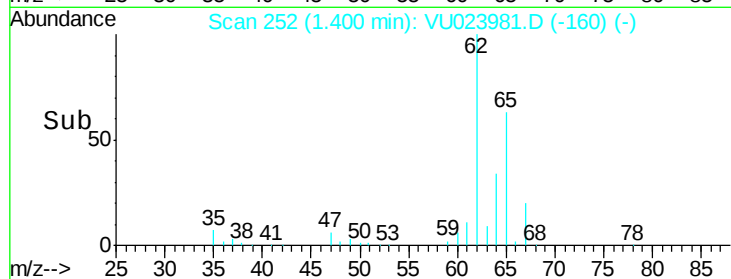
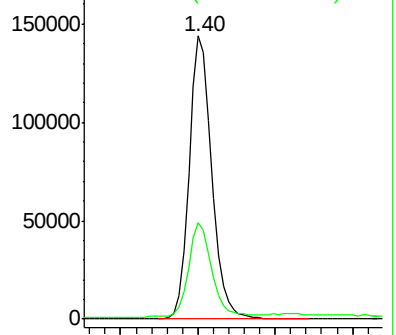
62 100

64 34.1 24.4 45.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 39.83 ug/L

RT: 1.62 min Scan# 321

Delta R.T. -0.00 min

Lab File: VU023981.D

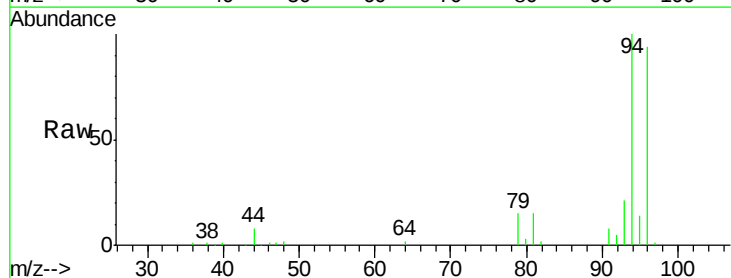
Acq: 21 May 2018 20:44

Tgt Ion: 94 Resp: 53899

Ion Ratio Lower Upper

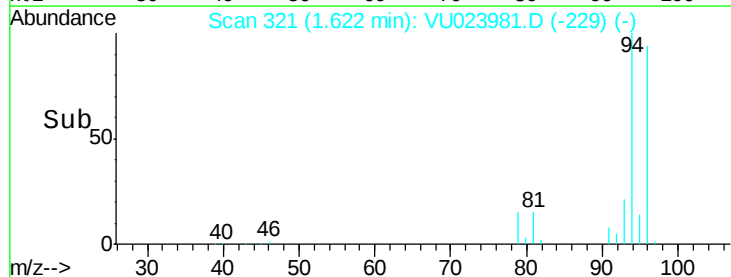
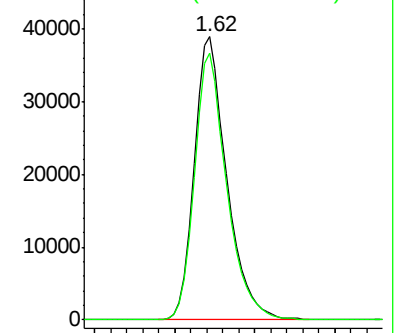
94 100

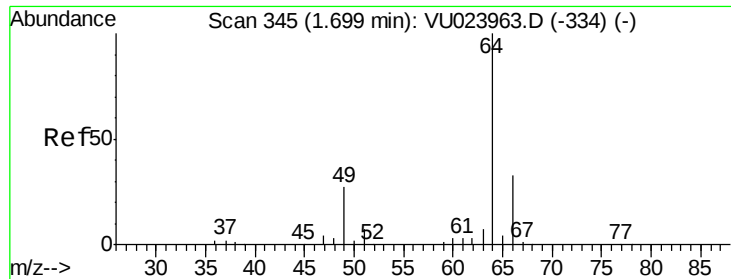
96 94.4 66.6 123.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

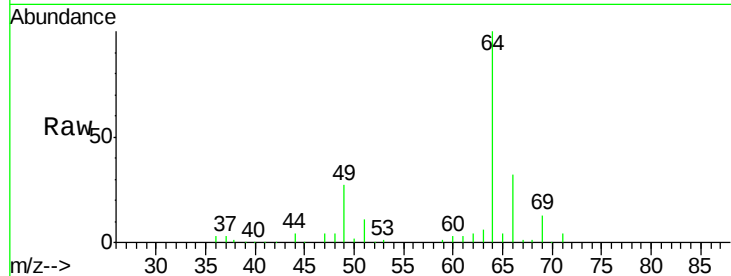
Ion 96.00 (95.70 to 96.70): VU0



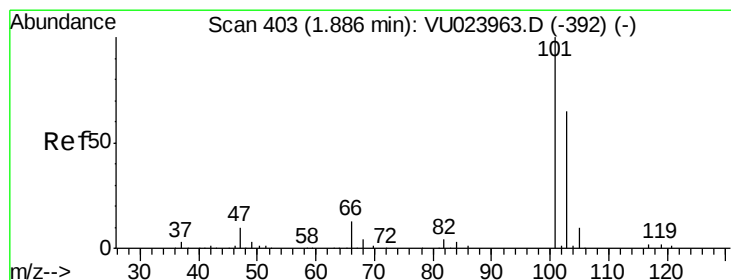
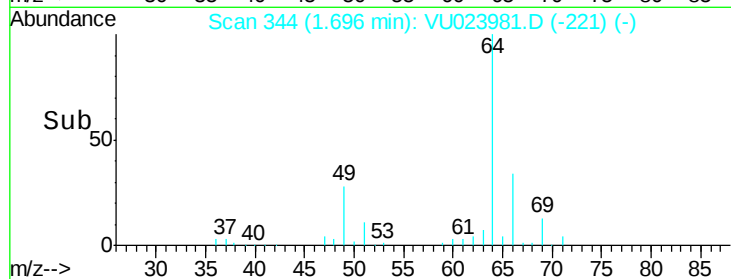
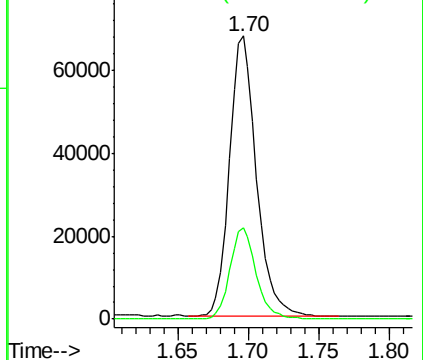


#8  
Chloroethane  
Concen: 42.48 ug/L  
RT: 1.70 min Scan# 344  
Delta R.T. -0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

Tgt Ion: 64 Resp: 90417  
Ion Ratio Lower Upper  
64 100  
66 32.5 22.0 41.0

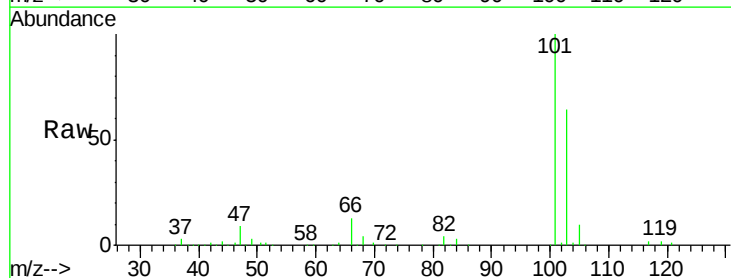


Abundance Ion 64.00 (63.70 to 64.70): VU023981.D (-221) (-)  
Ion 66.00 (65.70 to 66.70): VU023981.D (-221) (-)

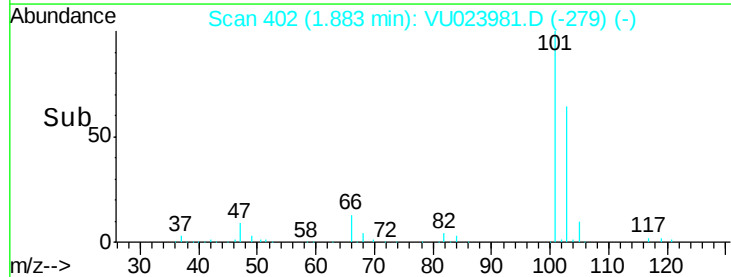
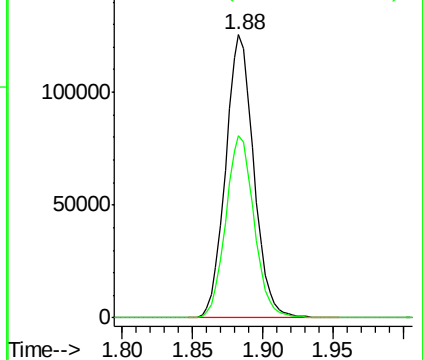


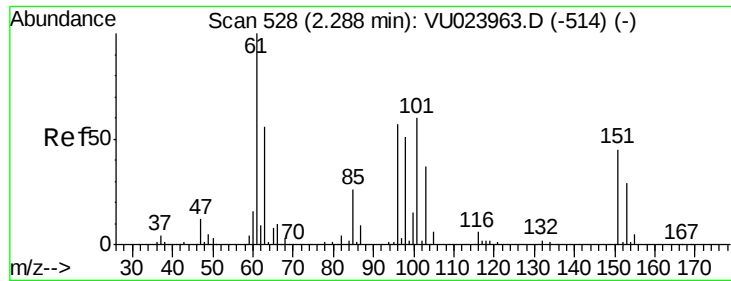
#9  
Trichlorofluoromethane  
Concen: 41.38 ug/L  
RT: 1.88 min Scan# 402  
Delta R.T. -0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

Tgt Ion: 101 Resp: 175405  
Ion Ratio Lower Upper  
101 100  
103 64.6 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU023981.D (-279) (-)  
Ion 103.00 (102.70 to 103.70): VU023981.D (-279) (-)





#10

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

Concen: 39.27 ug/L

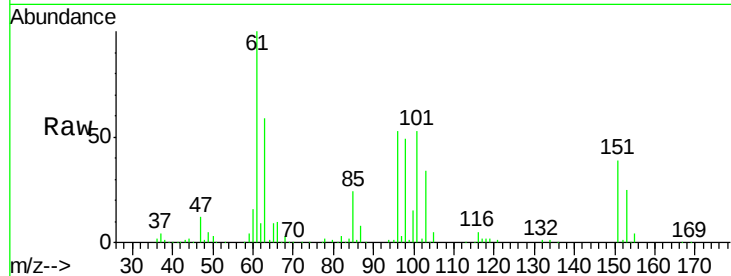
RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

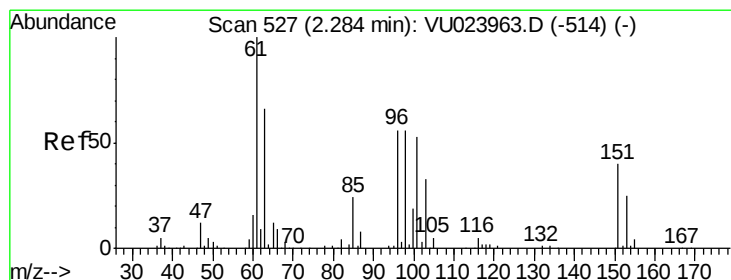
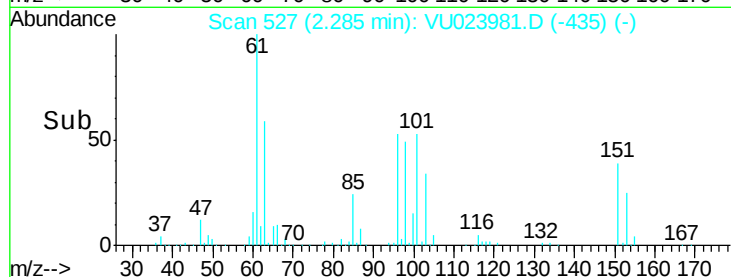
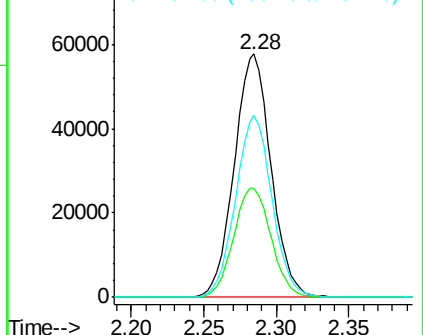
Lab File: VU023981.D

Acq: 21 May 2018 20:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 101   | Resp: | 101607 |
| Ion      | Ratio | Lower | Upper  |
| 101      | 100   |       |        |
| 85       | 45.7  | 34.3  | 51.5   |
| 151      | 74.2  | 61.0  | 91.4   |



Abundance Ion 101.00 (100.70 to 101.70): VU023981.D (-435) (-)



#12

1,1-Dichloroethene

Concen: 41.02 ug/L

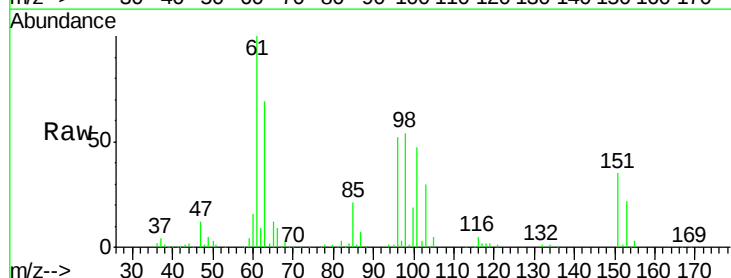
RT: 2.28 min Scan# 526

Delta R.T. -0.00 min

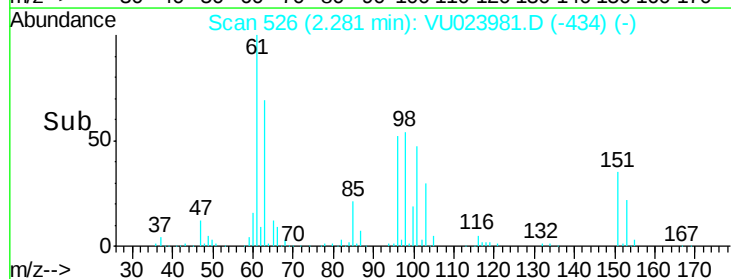
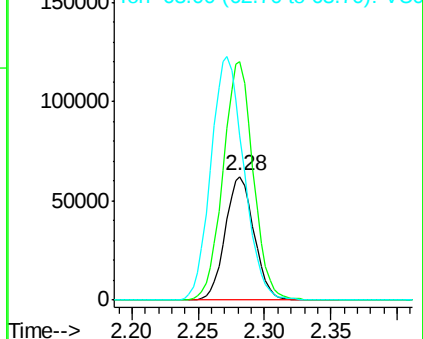
Lab File: VU023981.D

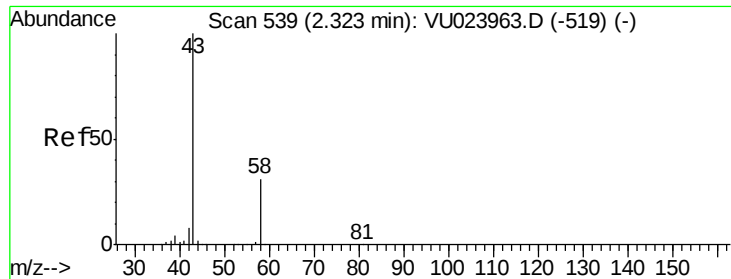
Acq: 21 May 2018 20:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 94384 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 192.8 | 129.5 | 240.5 |
| 63       | 133.3 | 106.9 | 198.5 |



Abundance Ion 96.00 (95.70 to 96.70): VU023981.D (-434) (-)





#13

Acetone

Concen: 84.75 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU023981.D

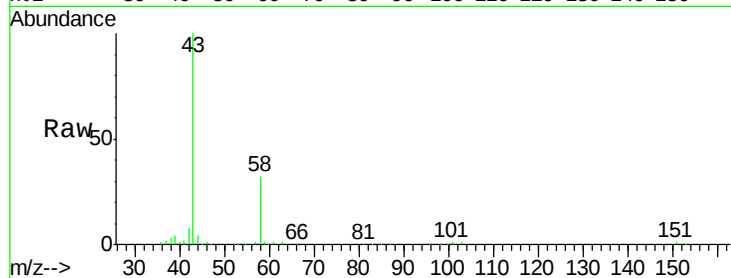
Acq: 21 May 2018 20:44

Tgt Ion: 43 Resp: 170055

Ion Ratio Lower Upper

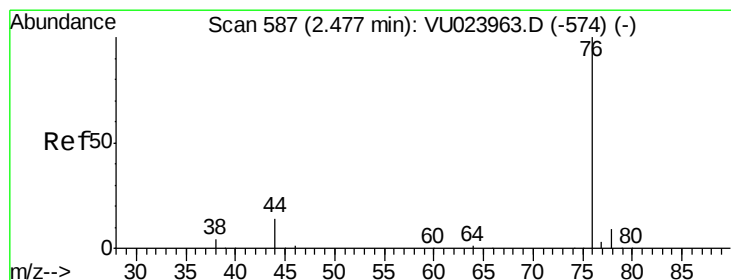
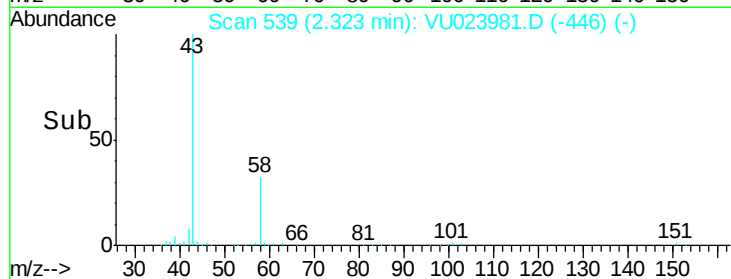
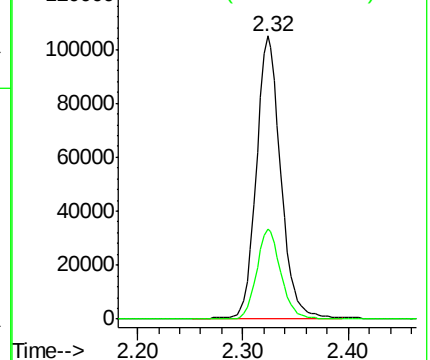
43 100

58 31.0 0.0 65.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 44.40 ug/L

RT: 2.47 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU023981.D

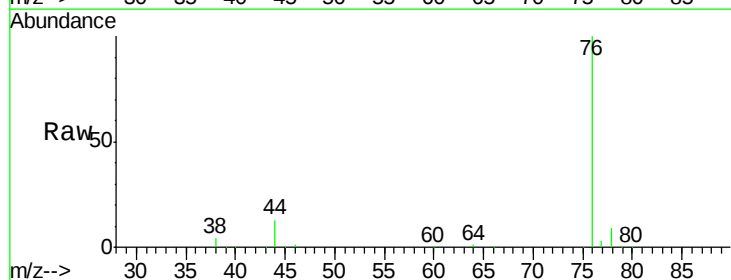
Acq: 21 May 2018 20:44

Tgt Ion: 76 Resp: 272300

Ion Ratio Lower Upper

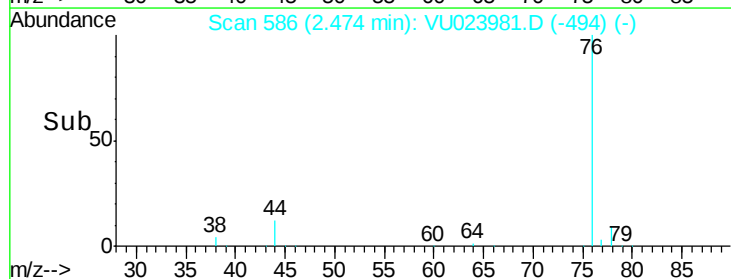
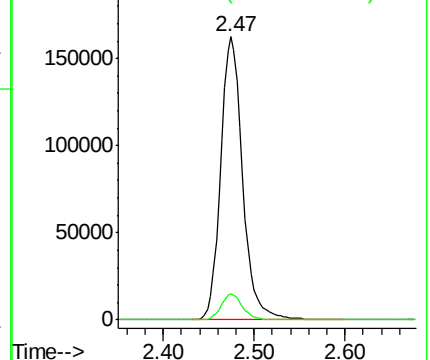
76 100

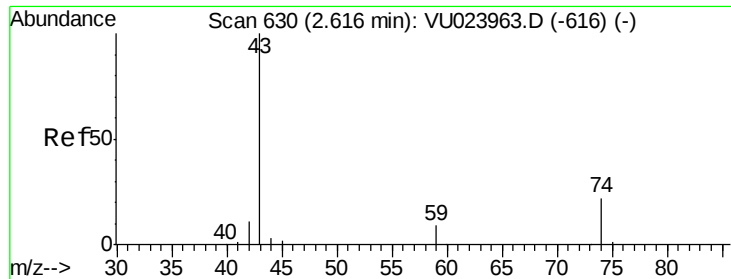
78 9.4 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU0

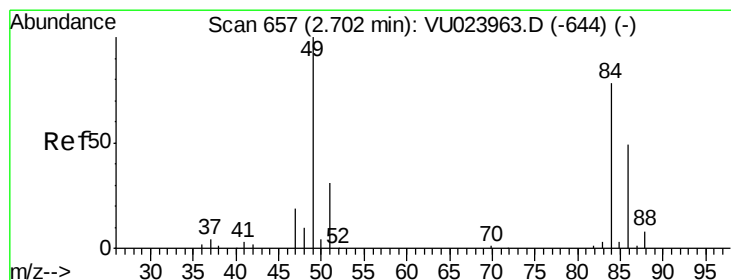
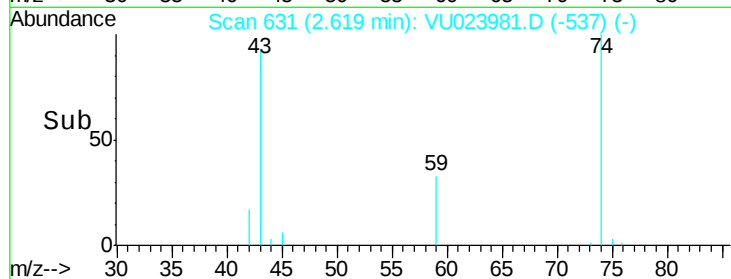
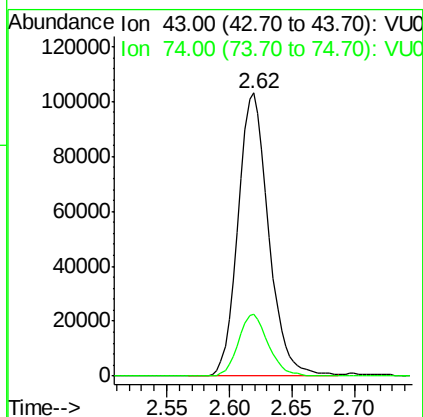
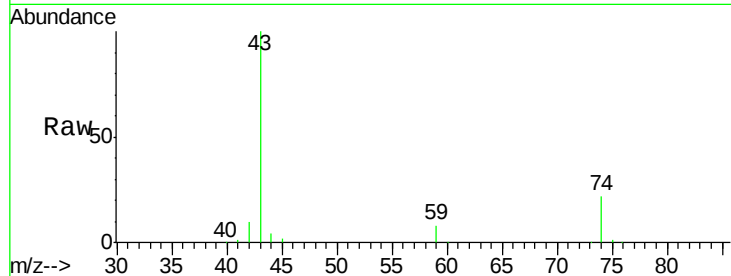
Ion 78.00 (77.70 to 78.70): VU0





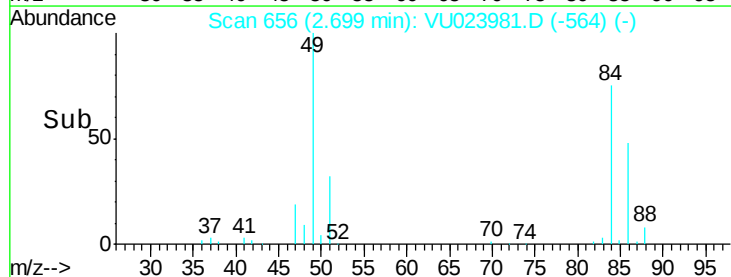
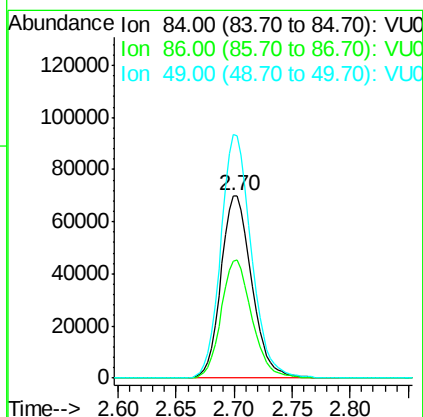
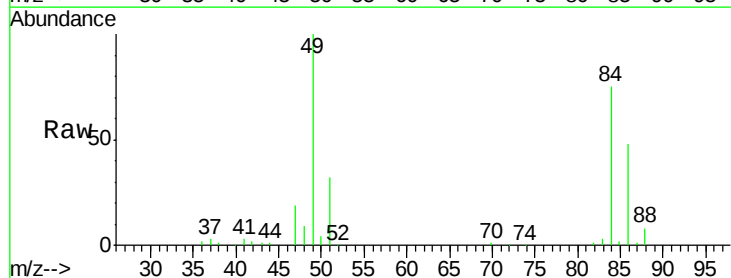
#15  
Methyl Acetate  
Concen: 52.00 ug/L  
RT: 2.62 min Scan# 631  
Delta R.T. 0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

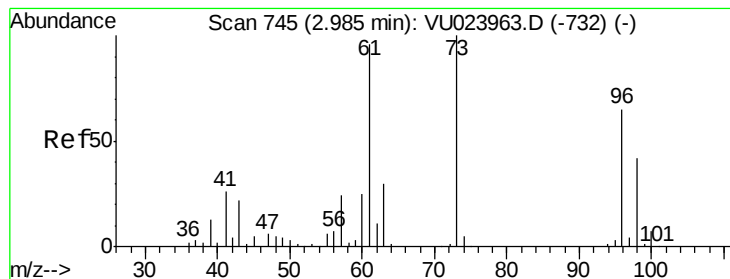
Tgt Ion: 43 Resp: 174997  
Ion Ratio Lower Upper  
43 100  
74 21.5 17.8 26.6



#16  
Methylene chloride  
Concen: 47.10 ug/L  
RT: 2.70 min Scan# 656  
Delta R.T. -0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

Tgt Ion: 84 Resp: 128881  
Ion Ratio Lower Upper  
84 100  
86 64.2 44.6 82.8  
49 133.5 87.6 162.6





#17

trans-1,2-Dichloroethene

Concen: 46.35 ug/L

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

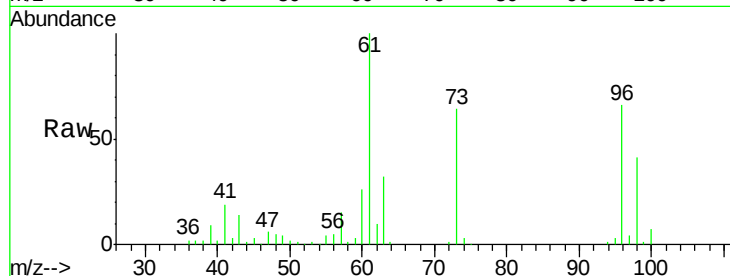
Tgt Ion: 96 Resp: 105175

Ion Ratio Lower Upper

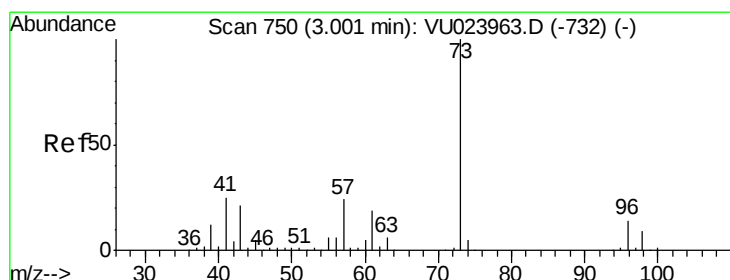
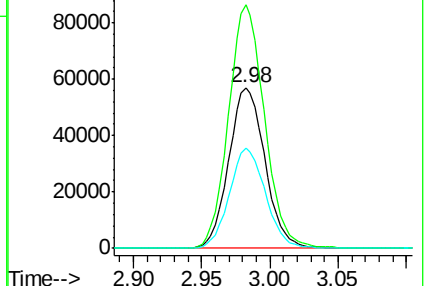
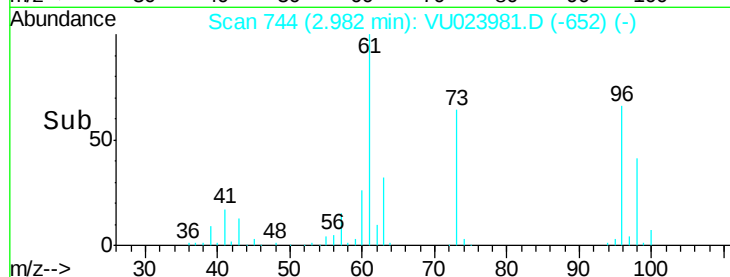
96 100

61 151.6 104.4 194.0

98 62.2 45.5 84.5



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 49.45 ug/L

RT: 3.00 min Scan# 751

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

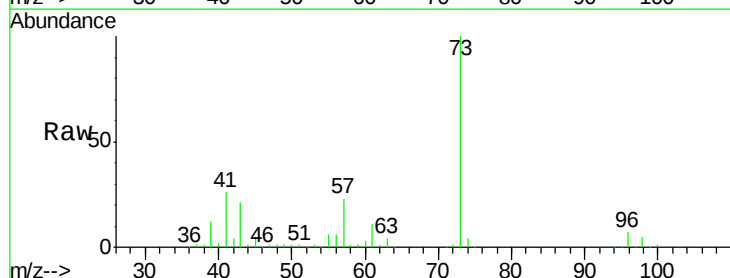
Tgt Ion: 73 Resp: 360224

Ion Ratio Lower Upper

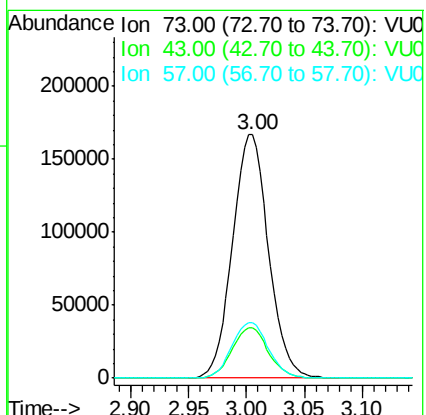
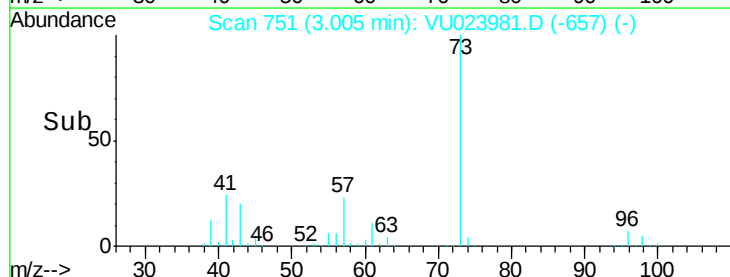
73 100

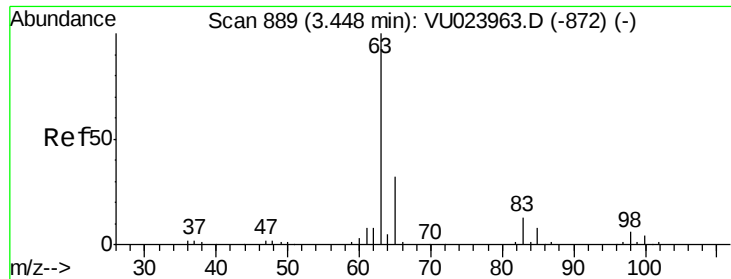
43 20.9 15.5 23.3

57 23.2 18.6 27.8



Abundance Ion 73.00 (72.70 to 73.70): VU0  
Ion 43.00 (42.70 to 43.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 47.90 ug/L

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

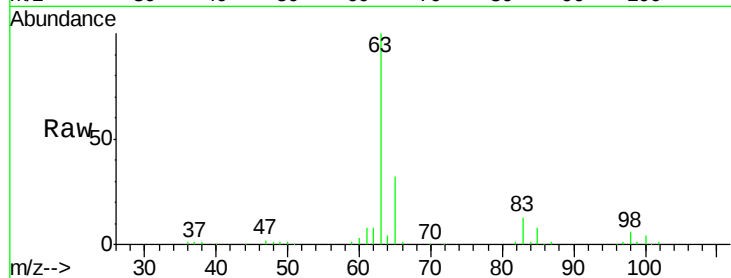
Tgt Ion: 63 Resp: 231035

Ion Ratio Lower Upper

63 100

65 31.5 22.5 41.9

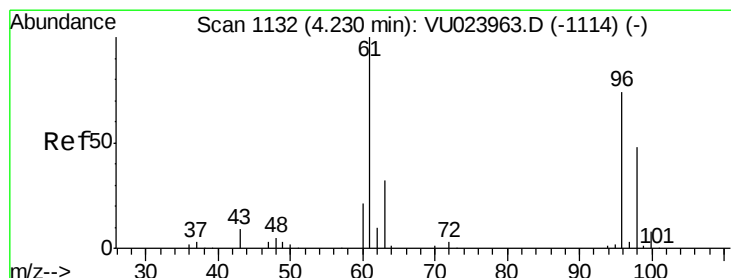
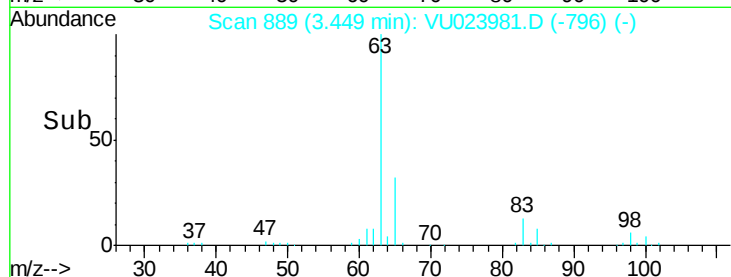
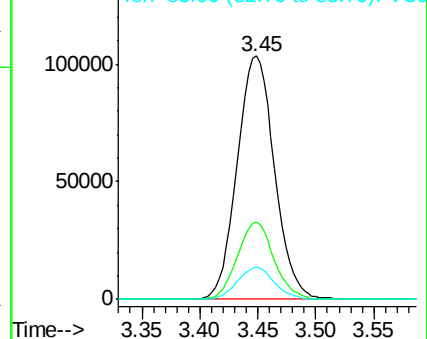
83 13.2 8.8 16.4



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 48.09 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

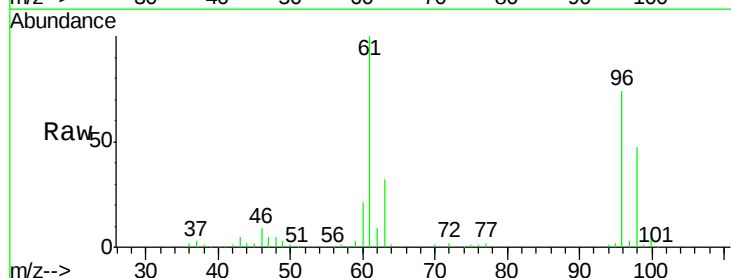
Tgt Ion: 96 Resp: 127440

Ion Ratio Lower Upper

96 100

61 136.0 93.3 173.3

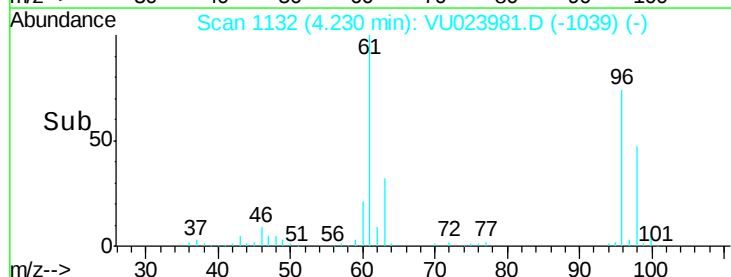
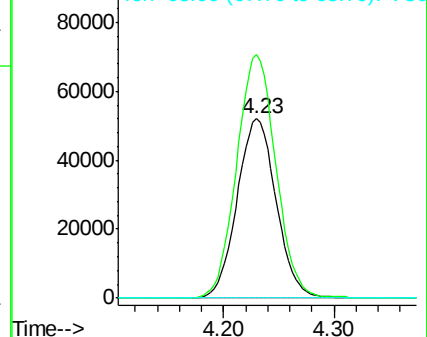
68 0.0 0.0 0.0

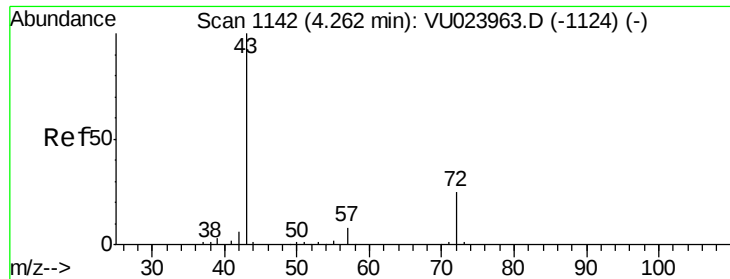


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 105.87 ug/L

RT: 4.27 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VU023981.D

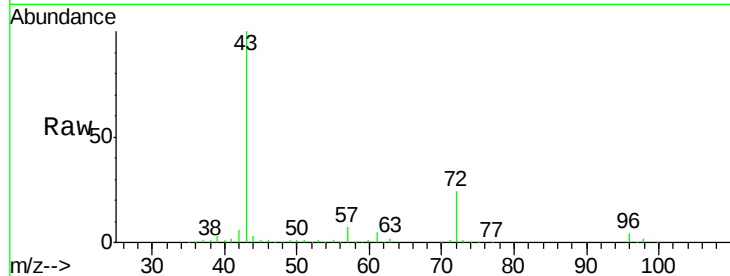
Acq: 21 May 2018 20:44

Tgt Ion: 43 Resp: 258528

Ion Ratio Lower Upper

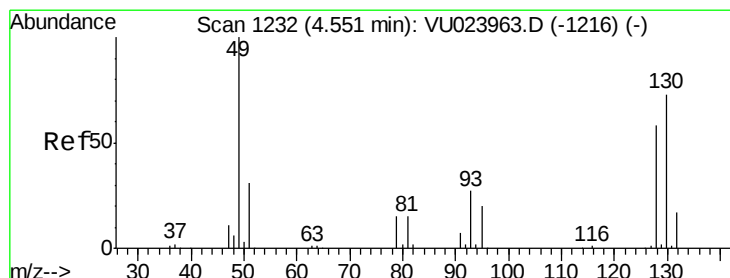
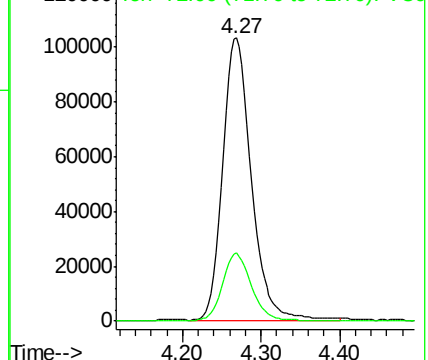
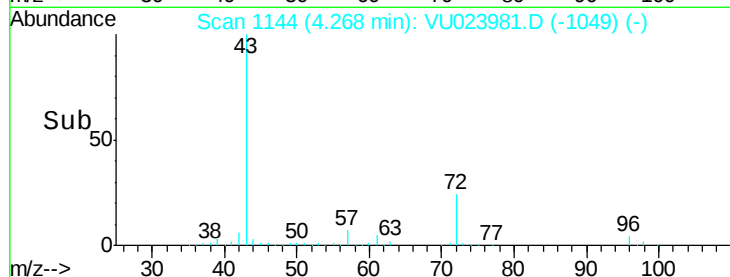
43 100

72 24.6 12.8 38.4



Abundance Ion 43.00 (42.70 to 43.70): VU023981.D (-1049) (-)

Ion 72.00 (71.70 to 72.70): VU023981.D (-1049) (-)



#23

Bromochloromethane

Concen: 45.47 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

Tgt Ion: 128 Resp: 62415

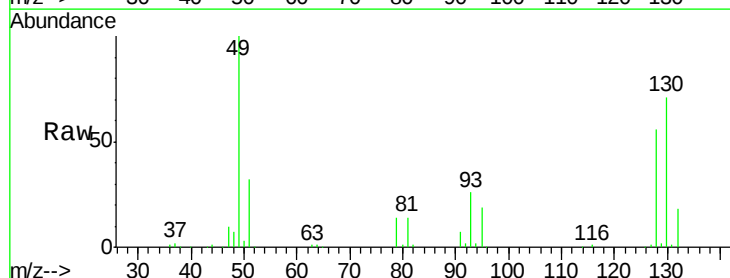
Ion Ratio Lower Upper

128 100

49 177.2 117.6 218.4

130 125.0 93.4 173.6

51 56.4 42.6 64.0

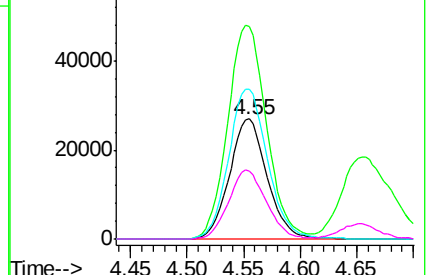
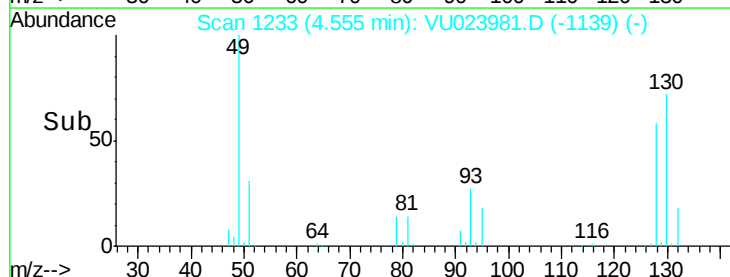


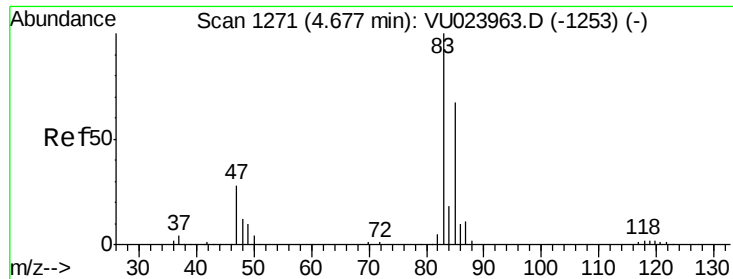
Abundance Ion 128.00 (127.70 to 128.70): VU023981.D (-1139) (-)

Ion 49.00 (48.70 to 49.70): VU023981.D (-1139) (-)

Ion 130.00 (129.70 to 130.70): VU023981.D (-1139) (-)

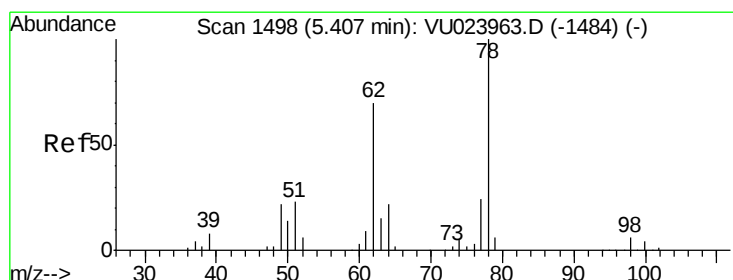
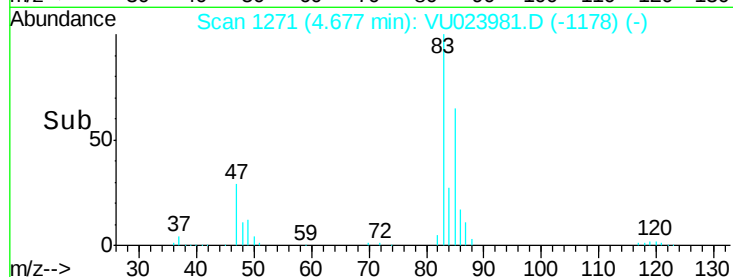
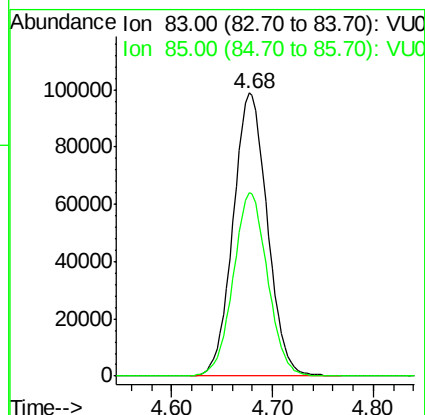
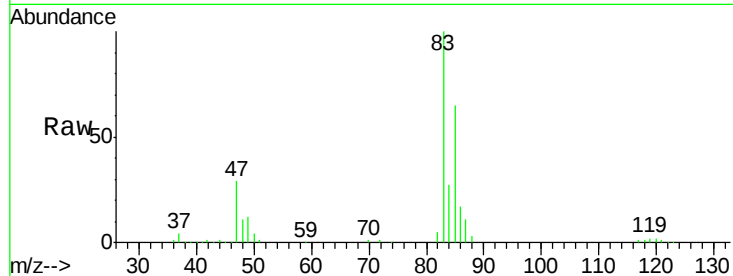
Ion 51.00 (50.70 to 51.70): VU023981.D (-1139) (-)





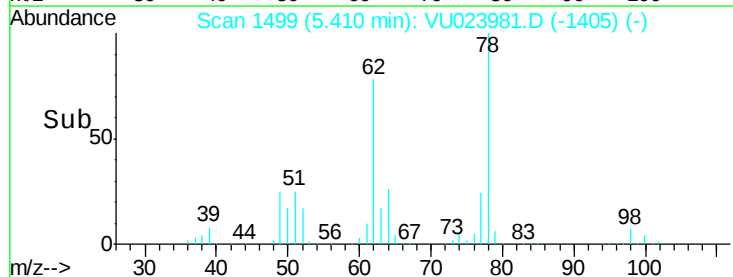
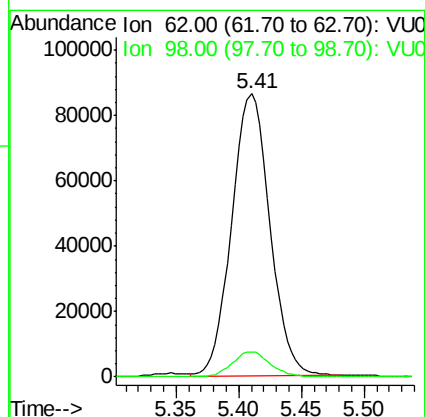
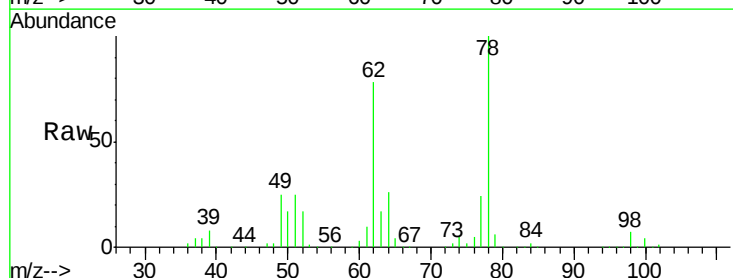
#25  
Chloroform  
Concen: 47.83 ug/L  
RT: 4.68 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

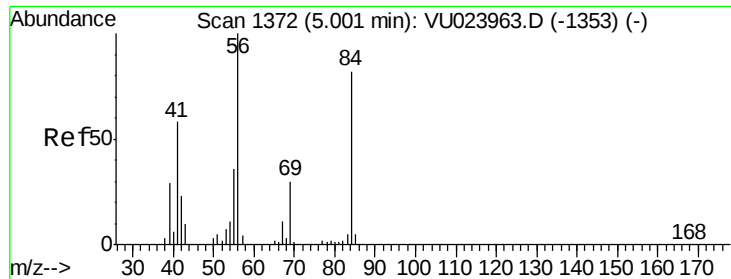
Tgt Ion: 83 Resp: 233149  
Ion Ratio Lower Upper  
83 100  
85 64.8 44.4 82.5



#27  
1,2-Dichloroethane  
Concen: 49.40 ug/L  
RT: 5.41 min Scan# 1499  
Delta R.T. 0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

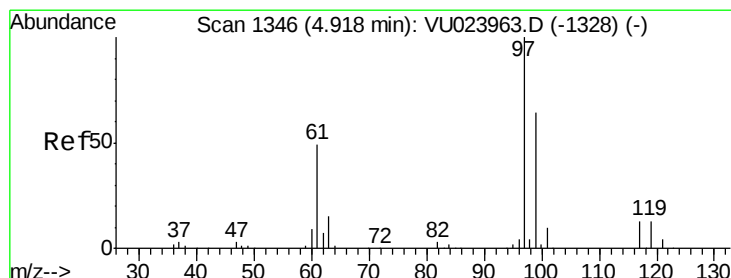
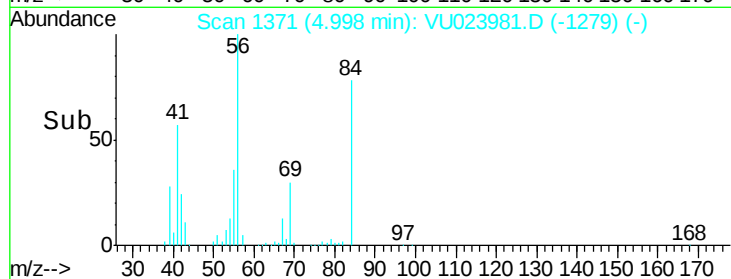
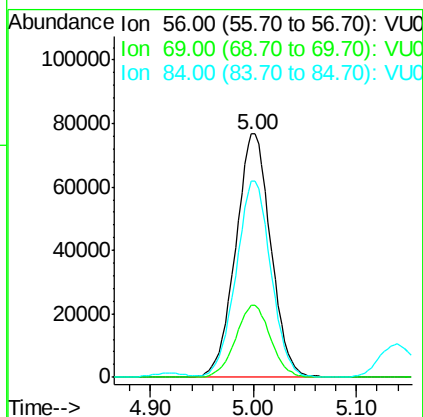
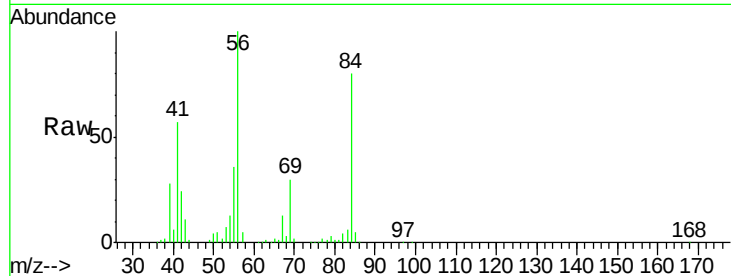
Tgt Ion: 62 Resp: 183089  
Ion Ratio Lower Upper  
62 100  
98 8.9 7.5 11.3





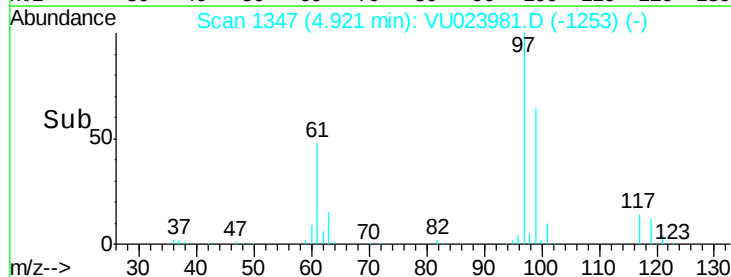
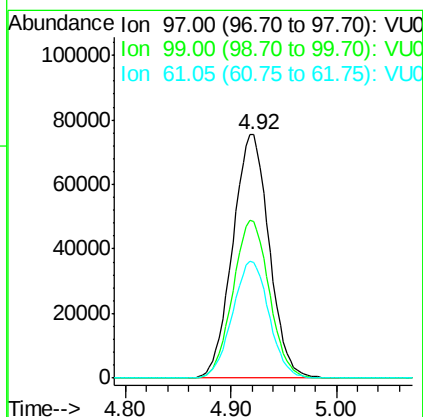
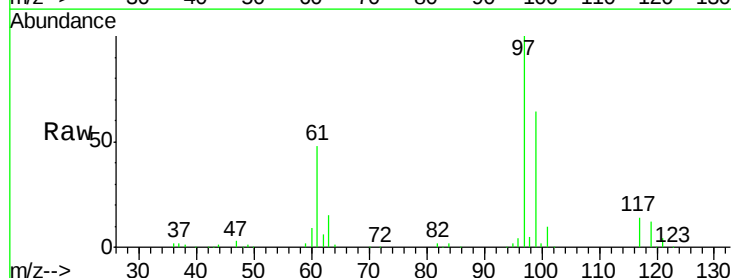
#29  
Cyclohexane  
Concen: 50.17 ug/L  
RT: 5.00 min Scan# 1371  
Delta R.T. -0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

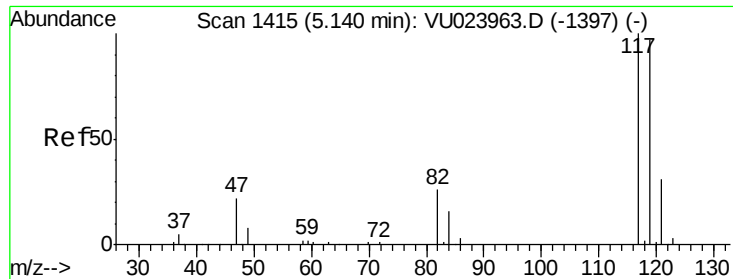
Tgt Ion: 56 Resp: 181647  
Ion Ratio Lower Upper  
56 100  
69 29.4 23.6 35.4  
84 80.4 65.8 98.6



#30  
1,1,1-Trichloroethane  
Concen: 48.14 ug/L  
RT: 4.92 min Scan# 1347  
Delta R.T. 0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

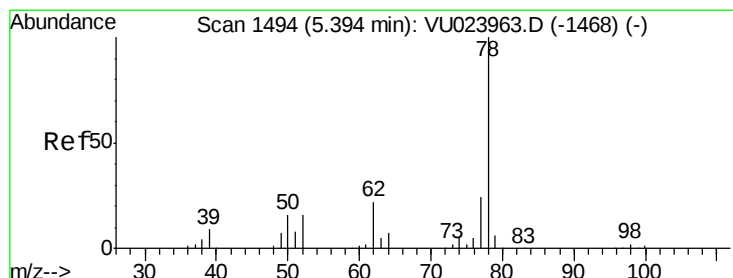
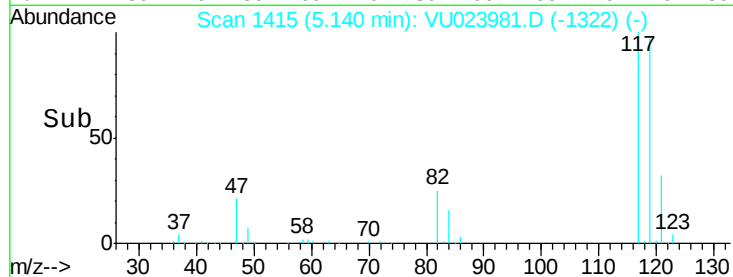
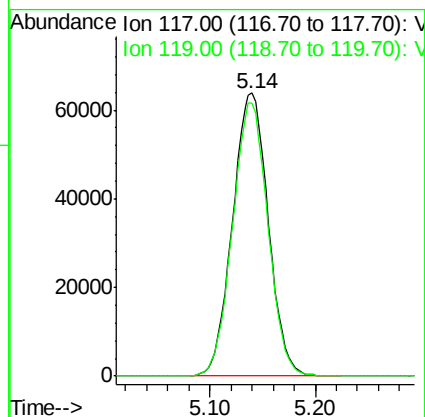
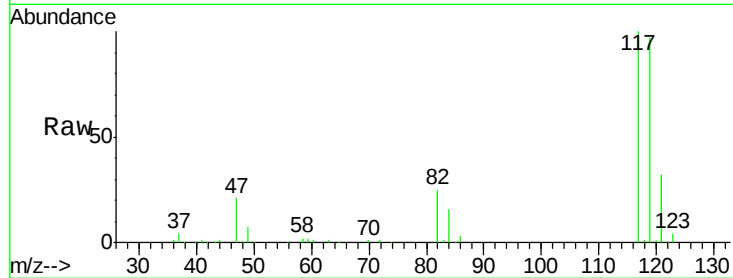
Tgt Ion: 97 Resp: 181234  
Ion Ratio Lower Upper  
97 100  
99 64.7 52.0 78.0  
61 48.0 37.6 56.4





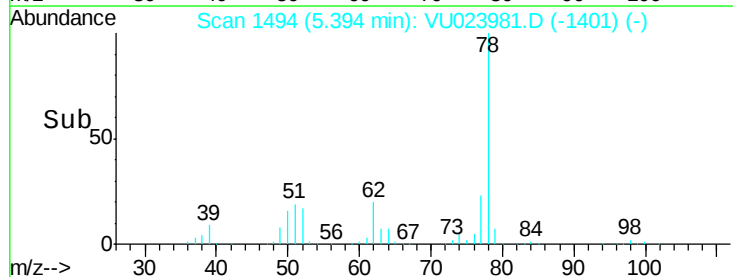
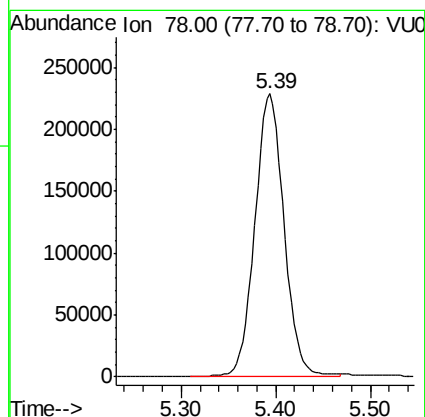
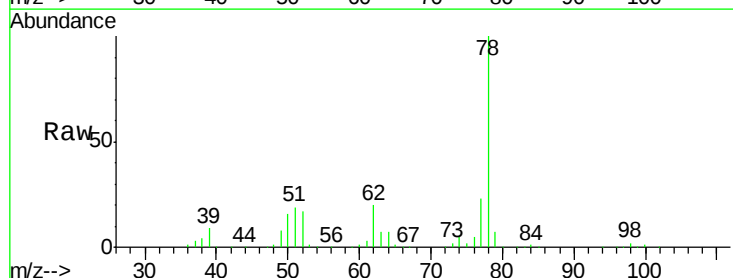
#31  
Carbon tetrachloride  
Concen: 46.27 ug/L  
RT: 5.14 min Scan# 1415  
Delta R.T. 0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

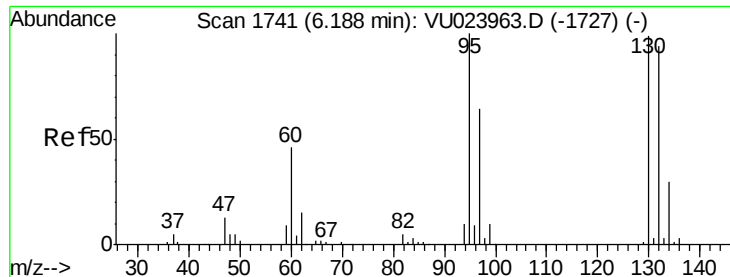
Tgt Ion:117 Resp: 150151  
Ion Ratio Lower Upper  
117 100  
119 95.6 76.6 115.0



#33  
Benzene  
Concen: 49.39 ug/L  
RT: 5.39 min Scan# 1494  
Delta R.T. 0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

Tgt Ion: 78 Resp: 489870





#34

Trichloroethene

Concen: 46.17 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

Tgt Ion: 95 Resp: 116804

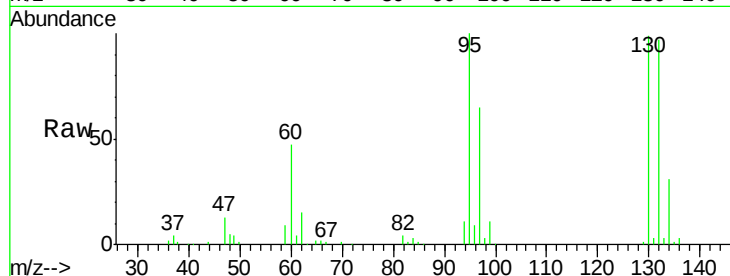
Ion Ratio Lower Upper

95 100

97 65.5 45.4 84.2

132 96.6 69.0 128.1

130 99.4 71.7 133.1

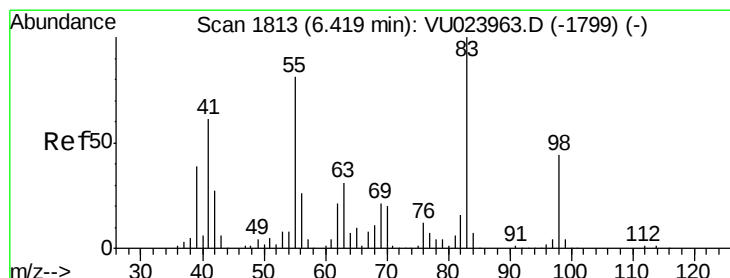
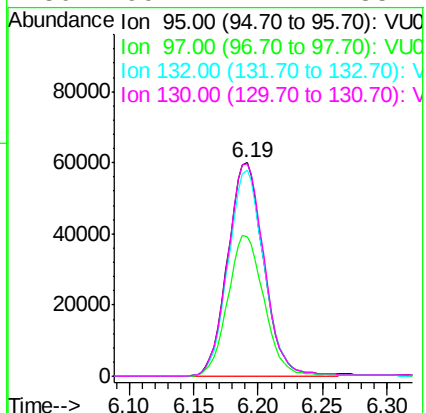
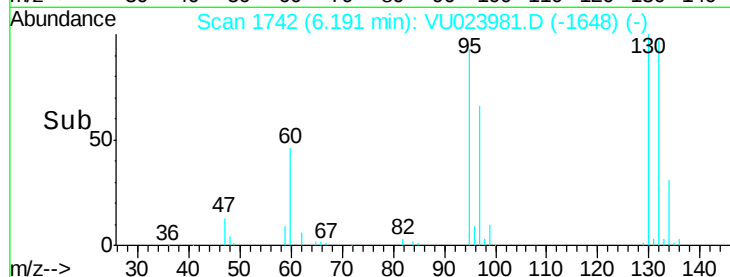


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 47.53 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

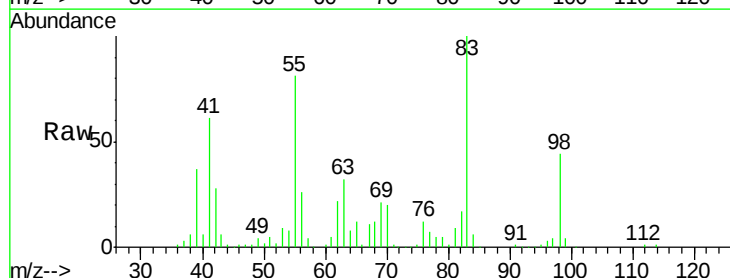
Tgt Ion: 83 Resp: 170653

Ion Ratio Lower Upper

83 100

55 84.6 67.2 100.8

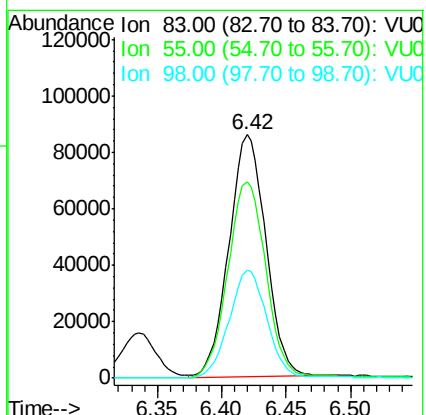
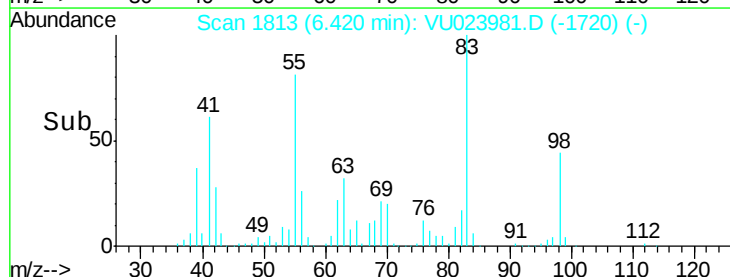
98 45.5 36.6 54.8

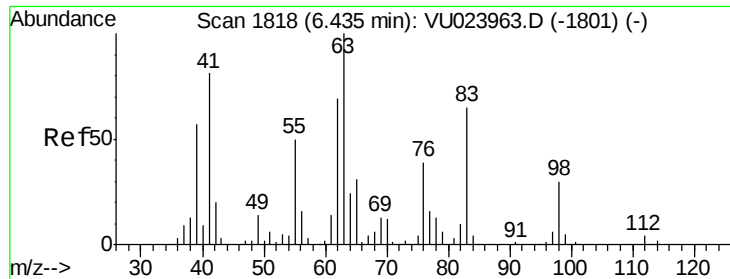


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 49.50 ug/L

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU023981.D

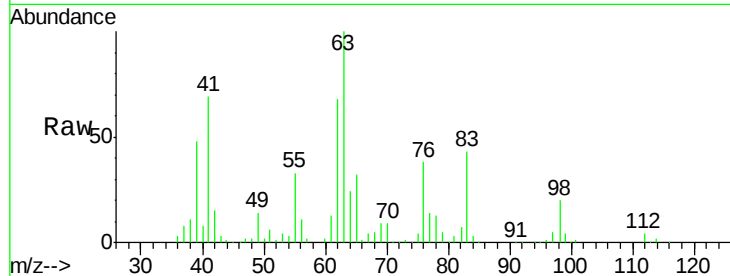
Acq: 21 May 2018 20:44

Tgt Ion: 63 Resp: 145285

Ion Ratio Lower Upper

63 100

112 3.6 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V

80000

60000

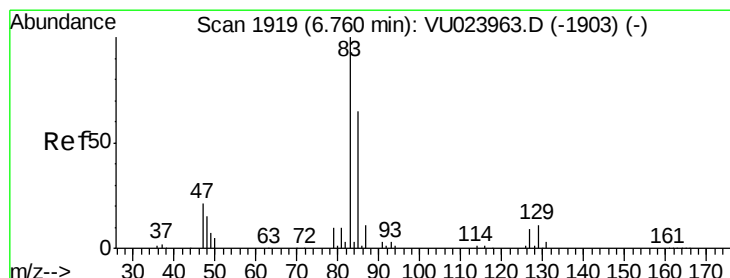
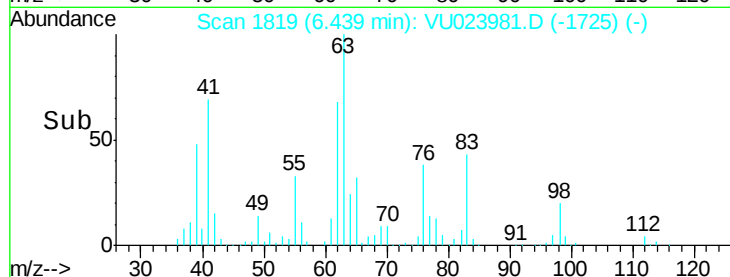
40000

20000

0

6.35 6.40 6.45 6.50 6.55

Time-->



#38

Bromodichloromethane

Concen: 49.06 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

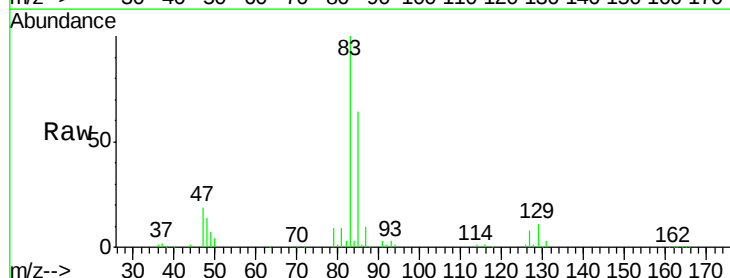
Tgt Ion: 83 Resp: 170618

Ion Ratio Lower Upper

83 100

85 63.5 45.8 85.0

127 8.5 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

120000

100000

80000

60000

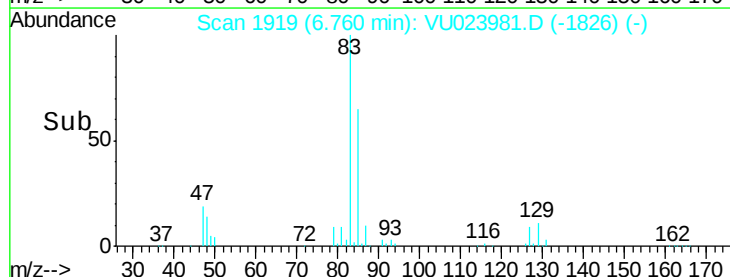
40000

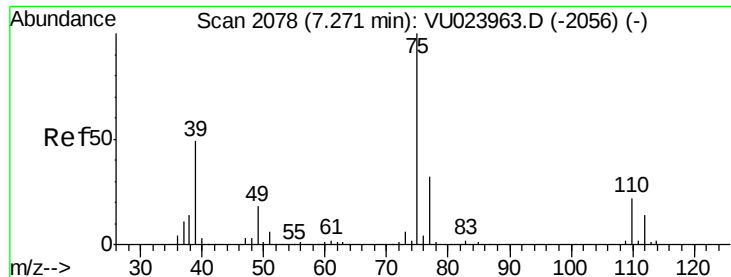
20000

0

6.70 6.75 6.80 6.85

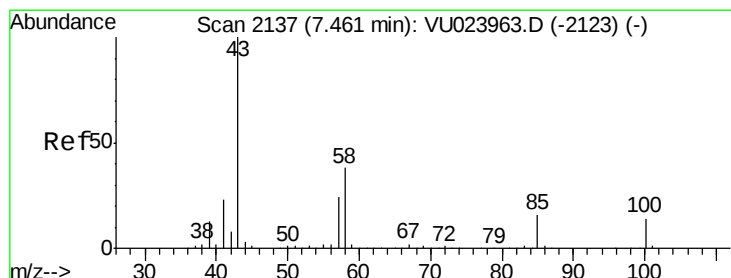
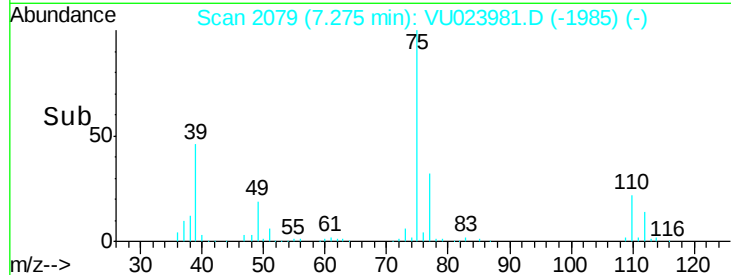
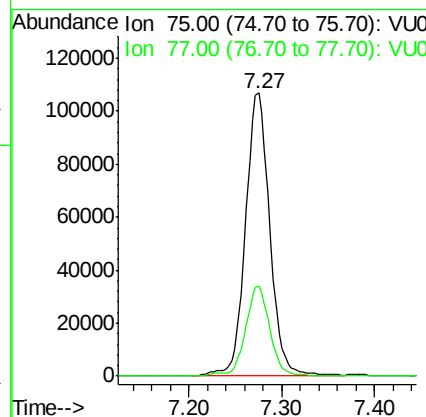
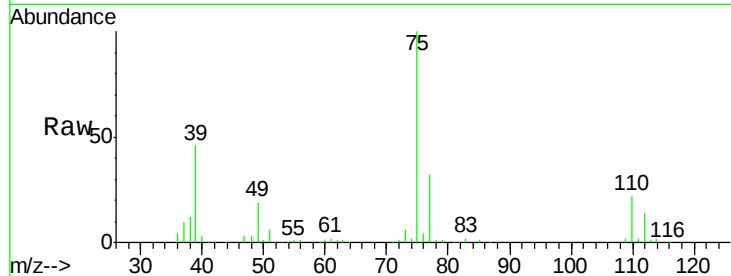
Time-->





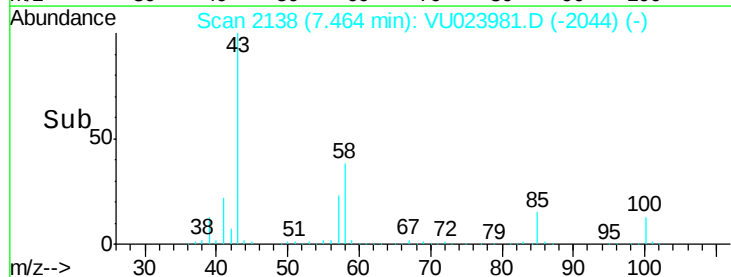
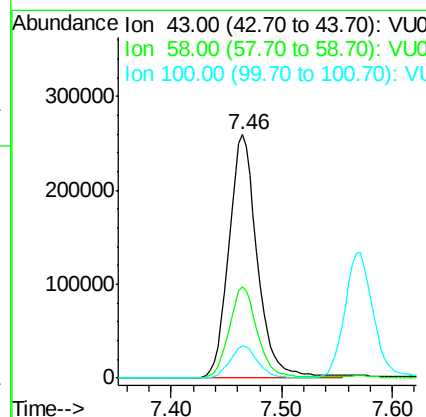
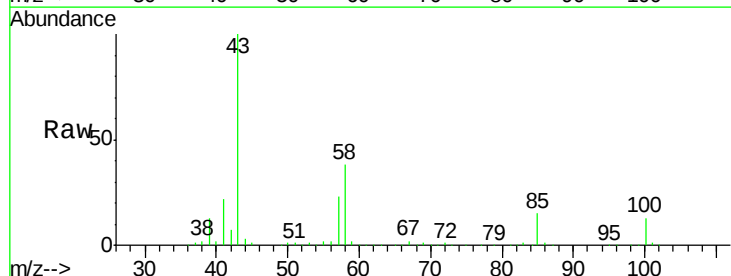
#39  
 cis-1,3-Dichloropropene  
 Concen: 50.21 ug/L  
 RT: 7.27 min Scan# 2079  
 Delta R.T. 0.00 min  
 Lab File: VU023981.D  
 Acq: 21 May 2018 20:44

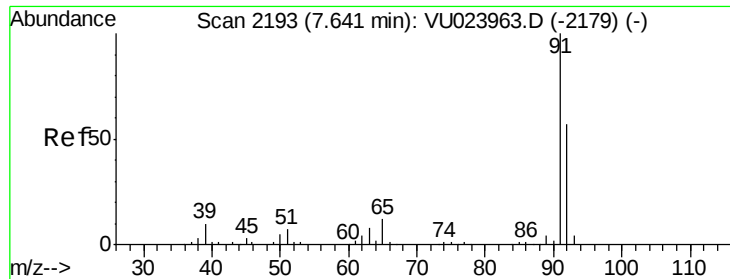
Tgt Ion: 75 Resp: 194507  
 Ion Ratio Lower Upper  
 75 100  
 77 31.7 22.5 41.9



#40  
 4-Methyl-2-pentanone  
 Concen: 112.36 ug/L  
 RT: 7.46 min Scan# 2138  
 Delta R.T. 0.00 min  
 Lab File: VU023981.D  
 Acq: 21 May 2018 20:44

Tgt Ion: 43 Resp: 464585  
 Ion Ratio Lower Upper  
 43 100  
 58 37.5 31.4 47.2  
 100 13.0 11.2 16.8





#42

Toluene

Concen: 50.39 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU023981.D

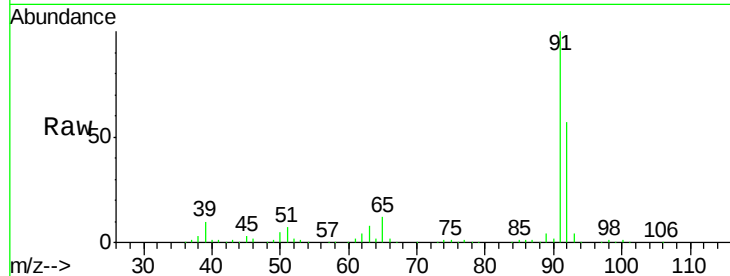
Acq: 21 May 2018 20:44

Tgt Ion: 91 Resp: 520801

Ion Ratio Lower Upper

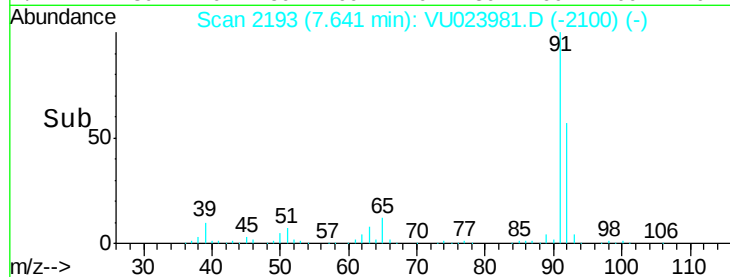
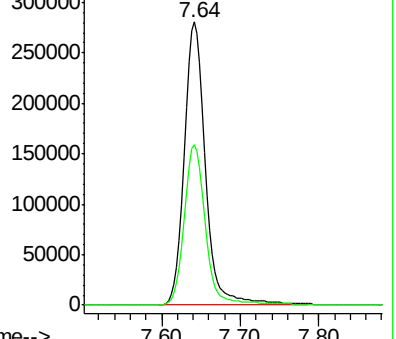
91 100

92 56.8 40.0 74.4

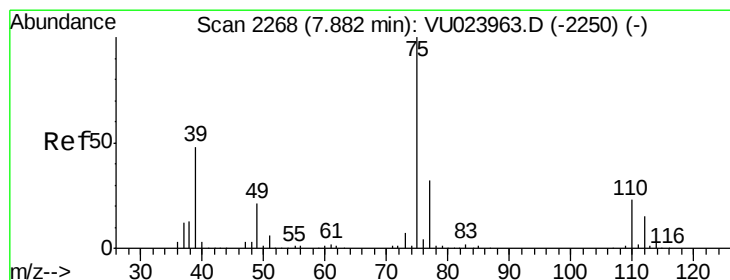


Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.16 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU023981.D

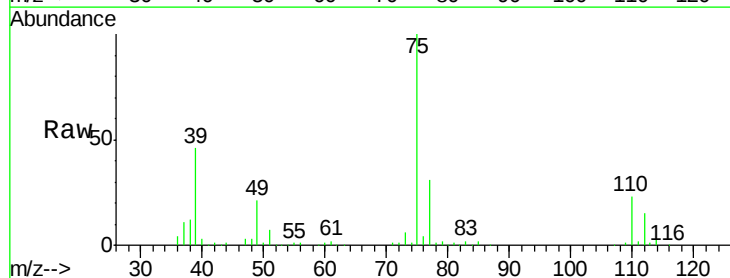
Acq: 21 May 2018 20:44

Tgt Ion: 75 Resp: 178941

Ion Ratio Lower Upper

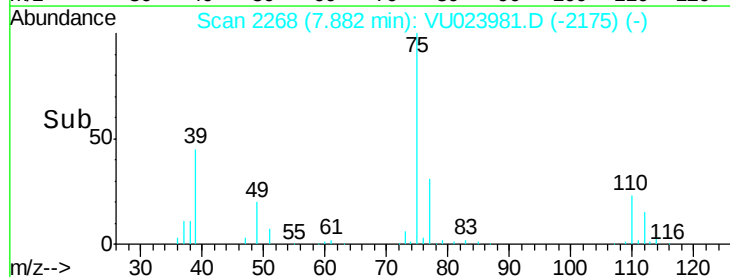
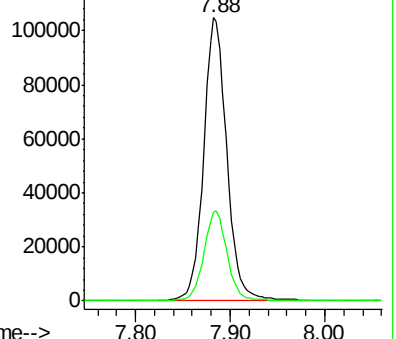
75 100

77 31.4 22.3 41.5

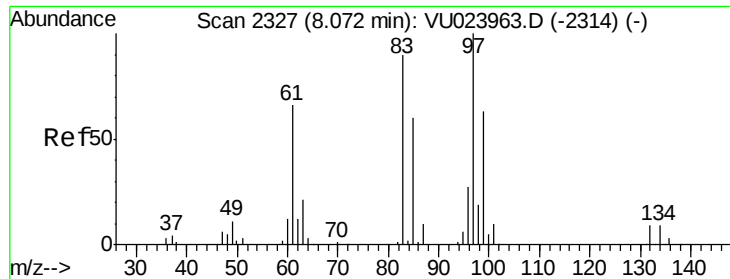


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



Time-->



#45

1,1,2-Trichloroethane

Concen: 49.05 ug/L

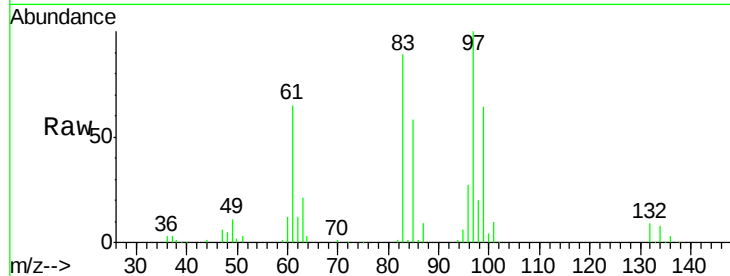
RT: 8.07 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 129327 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.5  | 43.3  | 80.3   |
| 83       | 89.4  | 61.9  | 114.9  |
| 85       | 57.7  | 39.8  | 74.0   |



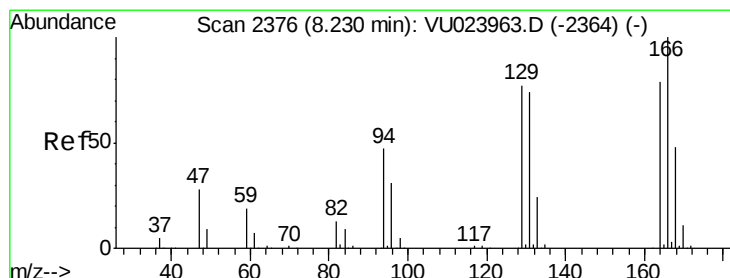
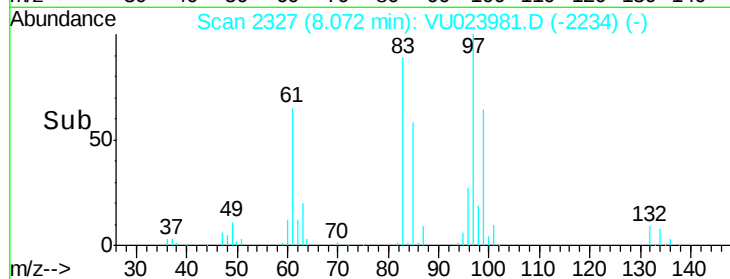
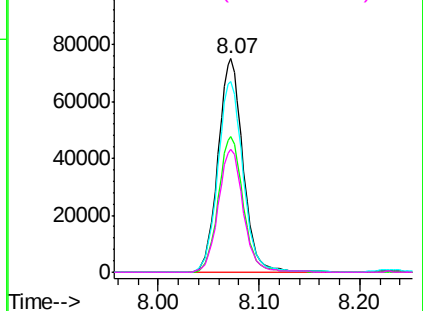
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 44.34 ug/L

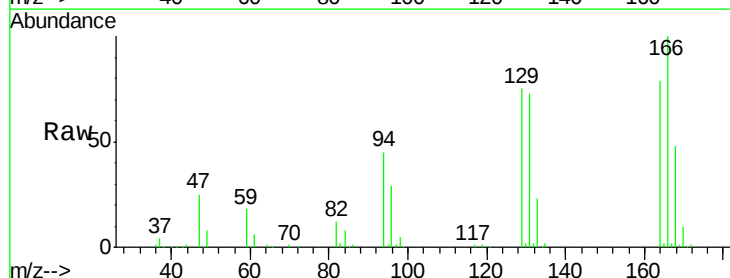
RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 91710 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 94.9  | 65.3  | 121.3 |
| 131      | 92.6  | 63.0  | 117.0 |
| 166      | 127.1 | 87.4  | 162.2 |



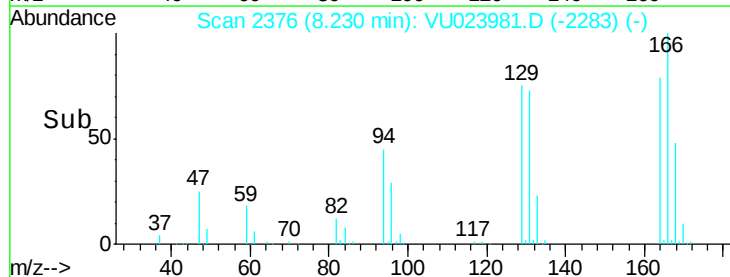
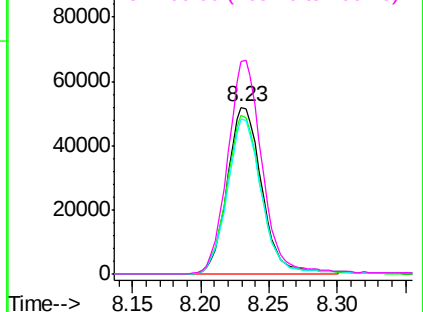
Abundance

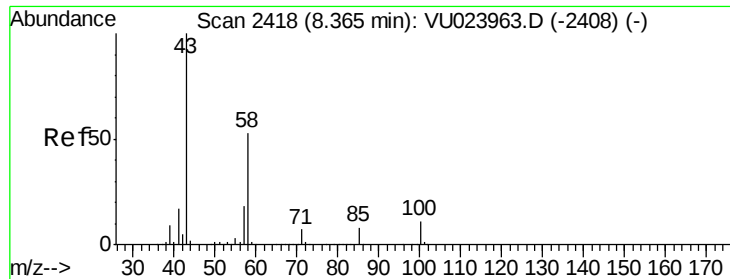
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

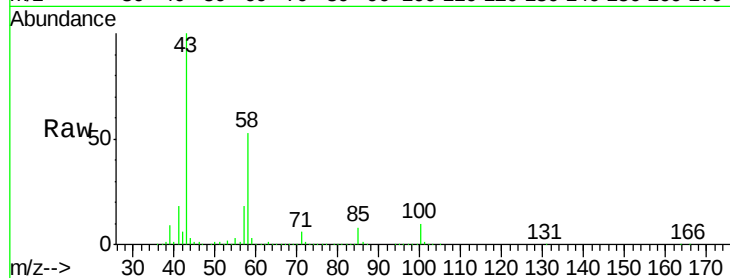
Ion 166.00 (165.70 to 166.70): V



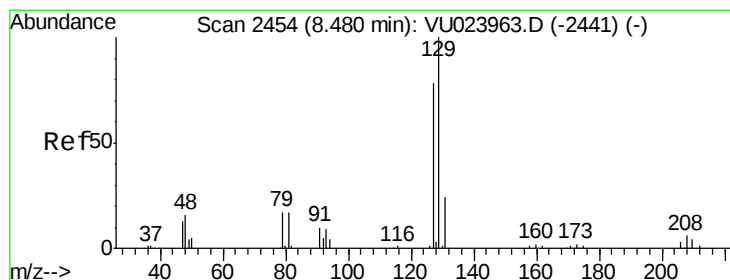
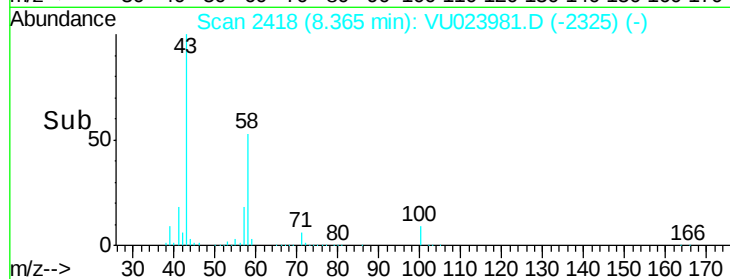
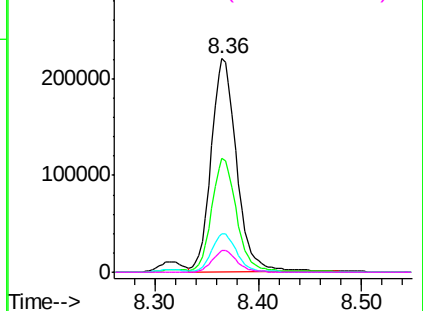


#48  
2-Hexanone  
Concen: 111.86 ug/L  
RT: 8.36 min Scan# 2418  
Delta R.T. 0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 375622 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 52.1  | 42.6  | 63.8   |
| 57       | 18.3  | 14.9  | 22.3   |
| 100      | 9.9   | 8.5   | 12.7   |

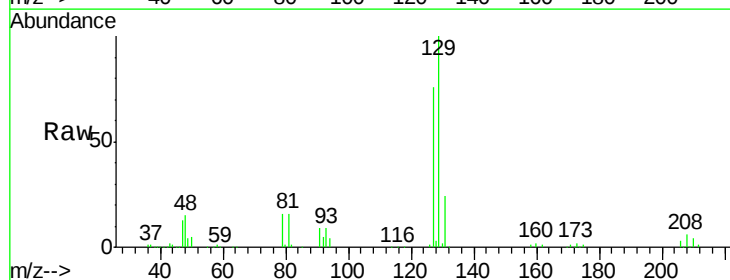


Abundance Ion 43.00 (42.70 to 43.70): VU023981.D (-2325) (-)  
Ion 58.00 (57.70 to 58.70): VU023981.D (-2325) (-)  
Ion 57.00 (56.70 to 57.70): VU023981.D (-2325) (-)  
Ion 100.00 (99.70 to 100.70): VU023981.D (-2325) (-)

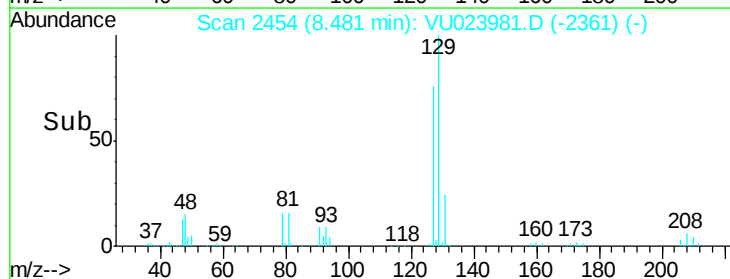
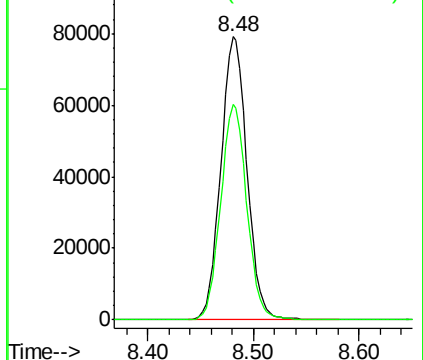


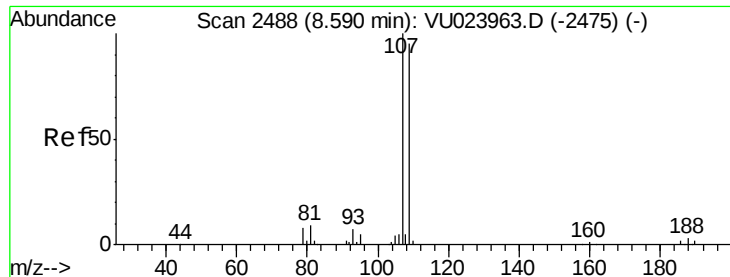
#49  
Dibromochloromethane  
Concen: 48.46 ug/L  
RT: 8.48 min Scan# 2454  
Delta R.T. 0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 135825 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 76.1  | 53.5  | 99.5   |



Abundance Ion 129.00 (128.70 to 129.70): VU023981.D (-2361) (-)  
Ion 127.00 (126.70 to 127.70): VU023981.D (-2361) (-)





#50

1,2-Dibromoethane

Concen: 48.54 ug/L

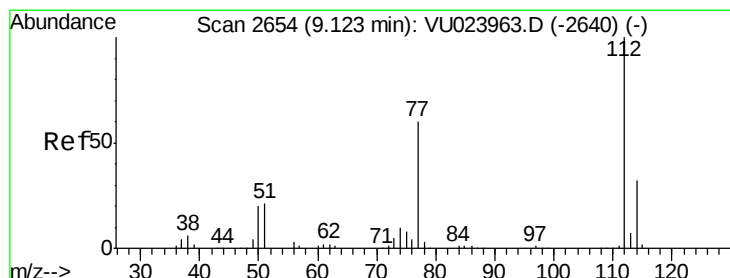
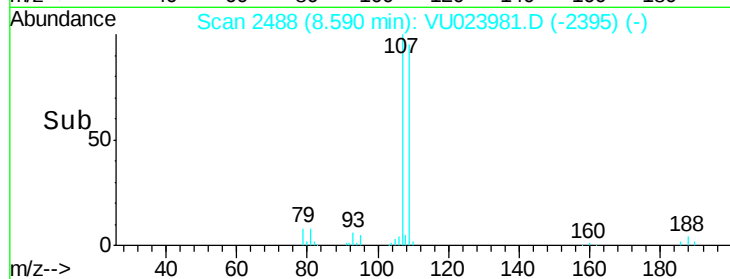
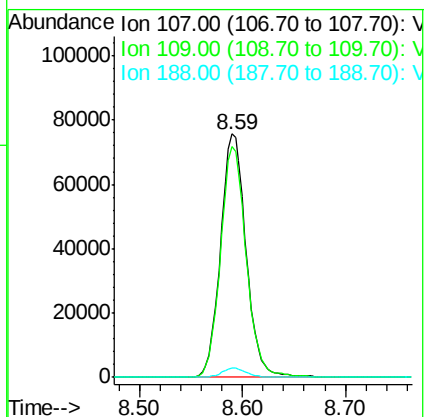
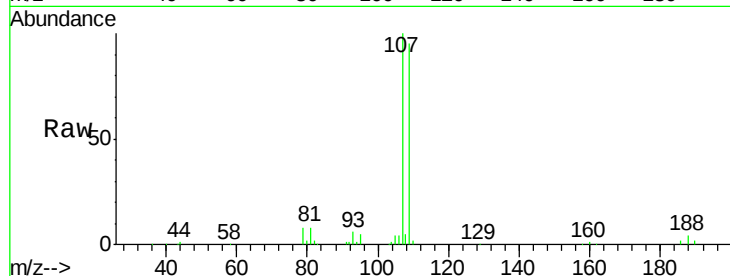
RT: 8.59 min Scan# 2488

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 130522 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 109      | 95.0  | 66.3  | 123.1  |
| 188      | 3.6   | 3.1   | 4.7    |



#51

Chlorobenzene

Concen: 47.68 ug/L

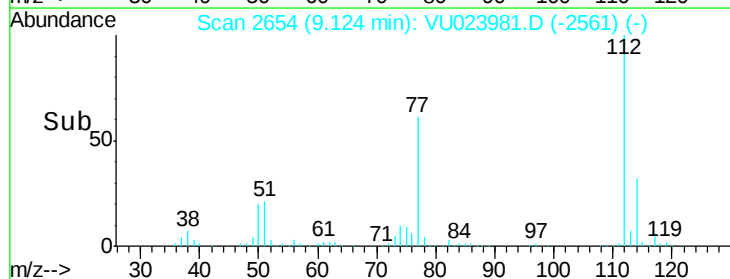
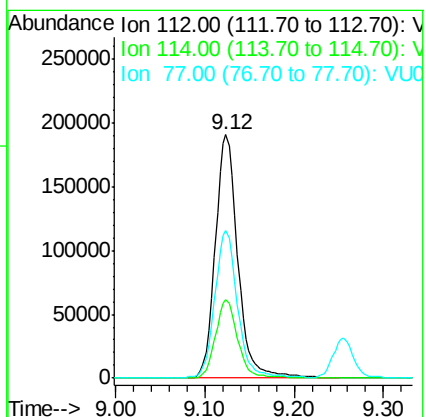
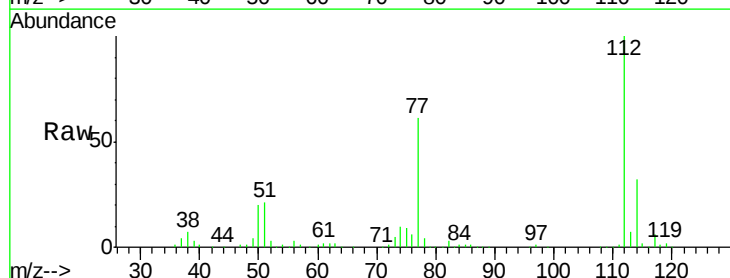
RT: 9.12 min Scan# 2654

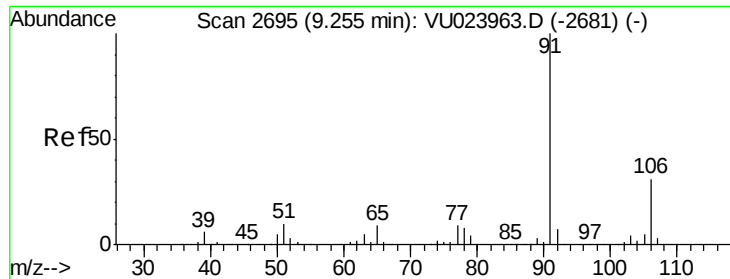
Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 334341 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 32.1  | 22.7  | 42.1   |
| 77       | 60.5  | 46.7  | 70.1   |





#52

Ethylbenzene

Concen: 50.22 ug/L

RT: 9.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU023981.D

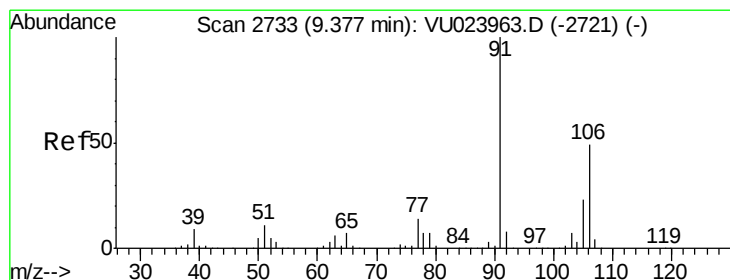
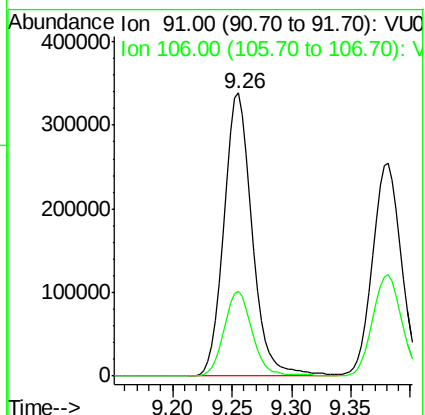
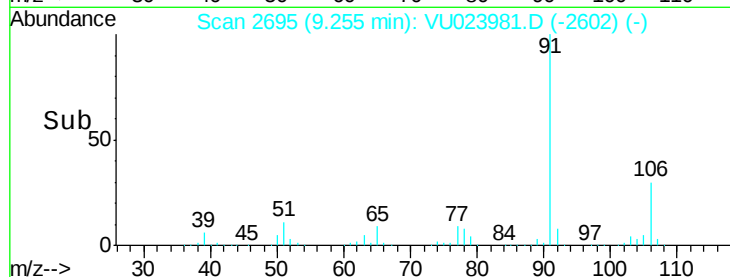
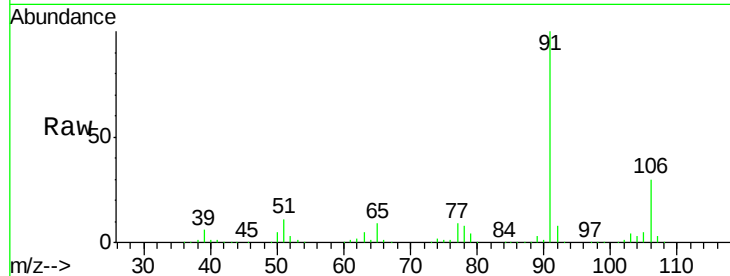
Acq: 21 May 2018 20:44

Tgt Ion: 91 Resp: 559603

Ion Ratio Lower Upper

91 100

106 30.0 21.3 39.6



#53

m,p-Xylene

Concen: 49.84 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU023981.D

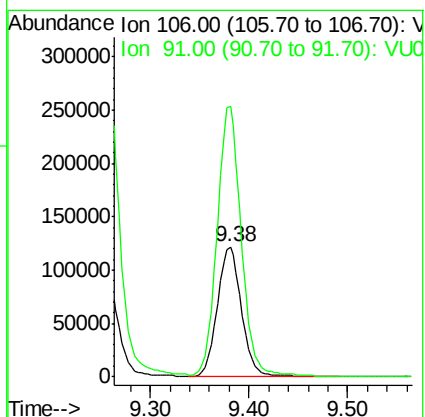
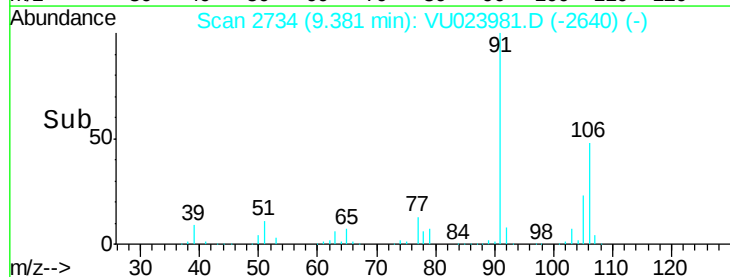
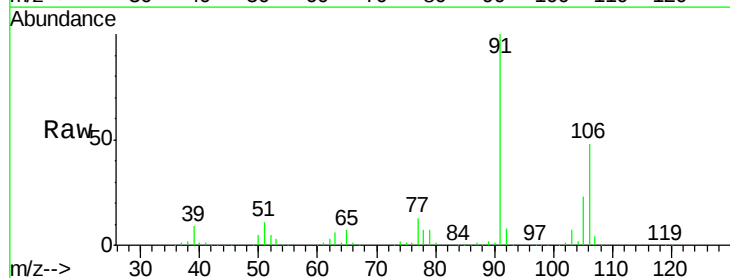
Acq: 21 May 2018 20:44

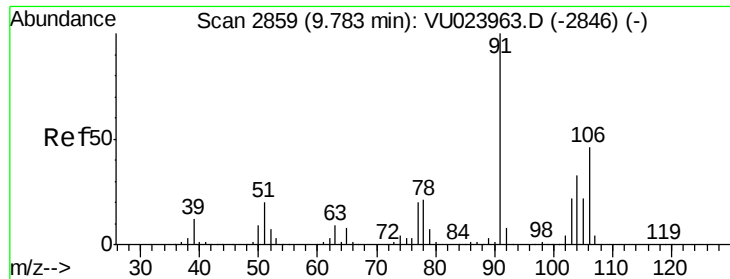
Tgt Ion: 106 Resp: 210473

Ion Ratio Lower Upper

106 100

91 208.8 141.8 263.4





#54

o-xylene

Concen: 50.28 ug/L

RT: 9.79 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VU023981.D

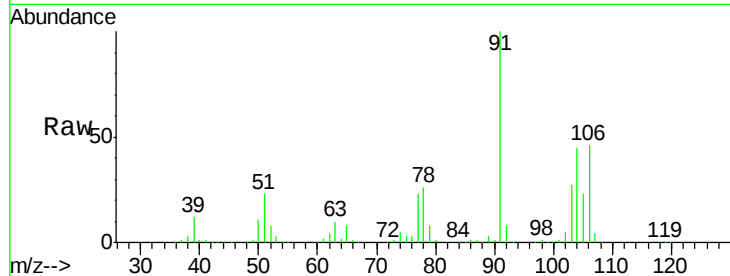
Acq: 21 May 2018 20:44

Tgt Ion:106 Resp: 206284

Ion Ratio Lower Upper

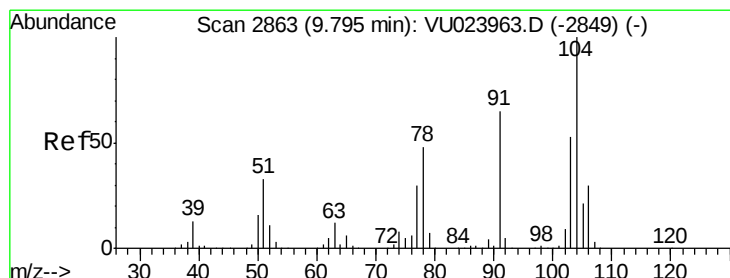
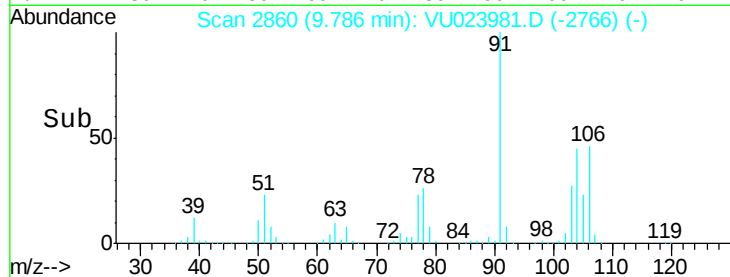
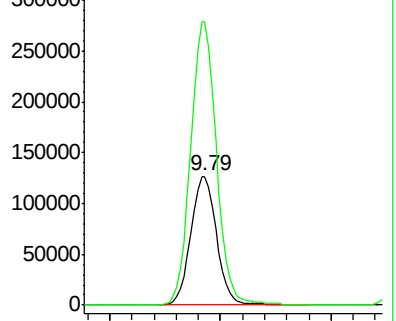
106 100

91 219.6 151.1 280.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.73 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU023981.D

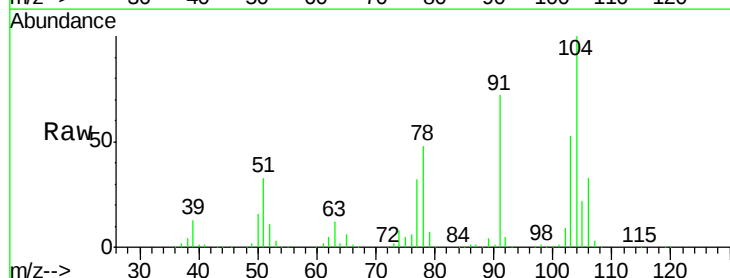
Acq: 21 May 2018 20:44

Tgt Ion:104 Resp: 371103

Ion Ratio Lower Upper

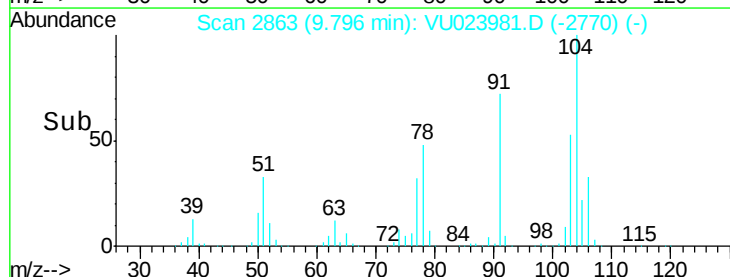
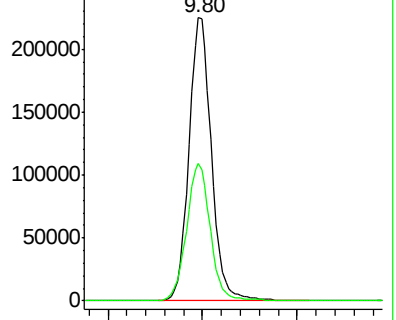
104 100

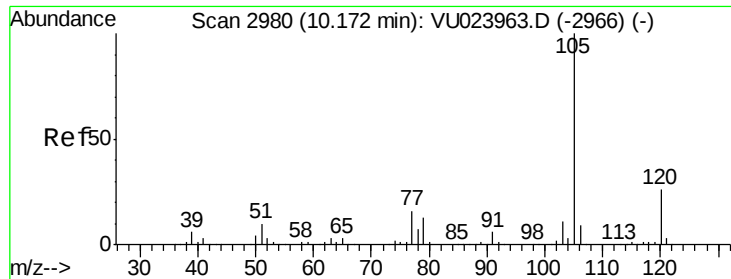
78 48.5 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.97 ug/L

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

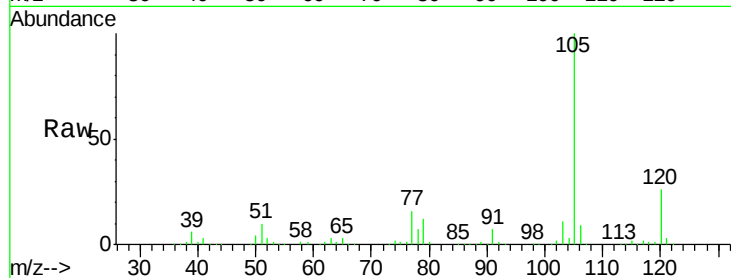
Tgt Ion: 105 Resp: 539194

Ion Ratio Lower Upper

105 100

120 26.4 21.1 31.7

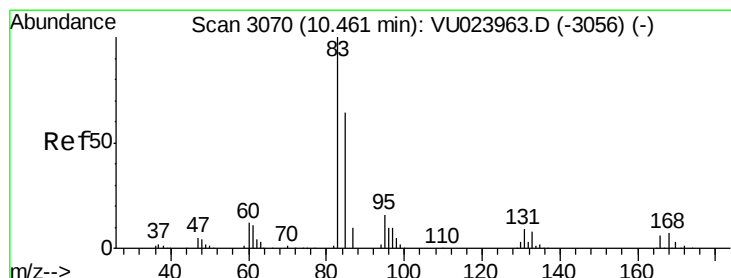
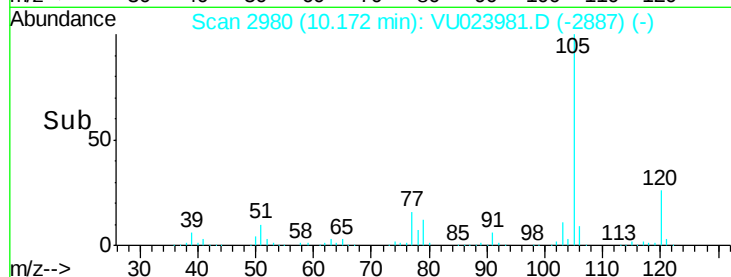
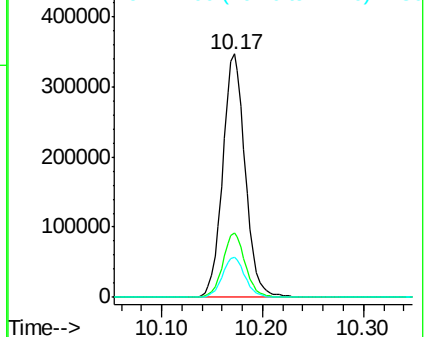
77 16.7 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.61 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

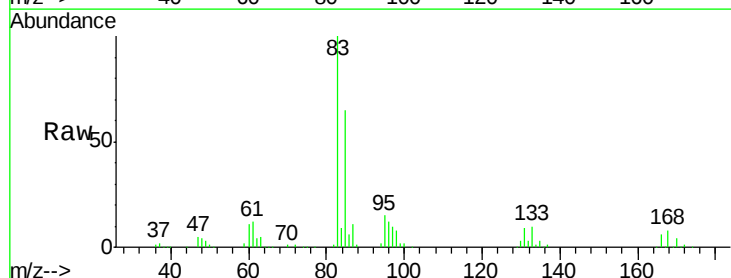
Tgt Ion: 83 Resp: 235369

Ion Ratio Lower Upper

83 100

85 64.5 45.2 84.0

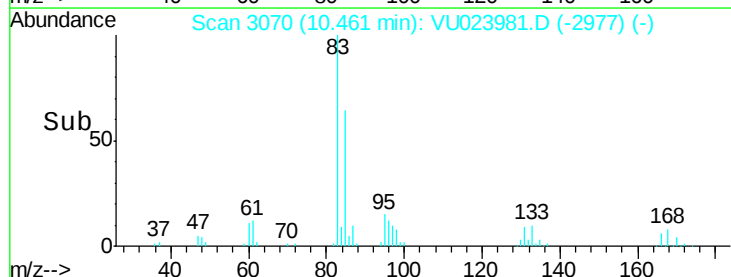
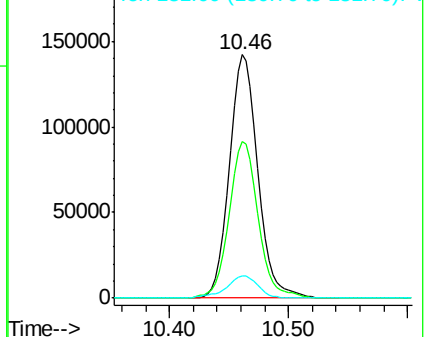
131 9.2 7.9 11.9

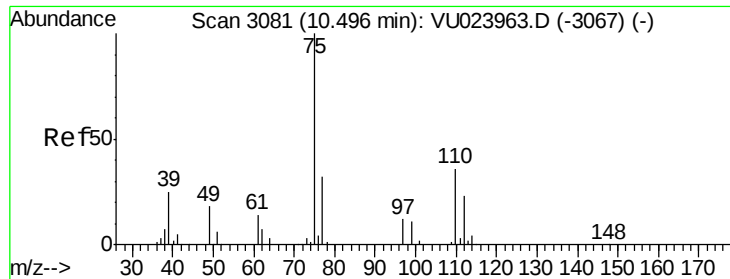


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.79 ug/L

RT: 10.50 min Scan# 3082

Delta R.T. 0.00 min

Lab File: VU023981.D

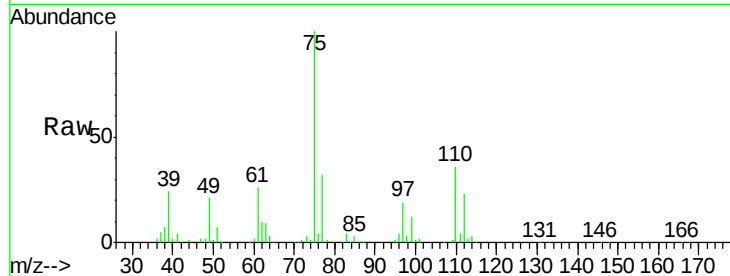
Acq: 21 May 2018 20:44

Tgt Ion: 75 Resp: 193444

Ion Ratio Lower Upper

75 100

77 31.6 26.2 39.4



Abundance Ion 75.00 (74.70 to 75.70): VU023963.D (-3067) (-)

Ion 77.00 (76.70 to 77.70): VU023963.D (-3067) (-)

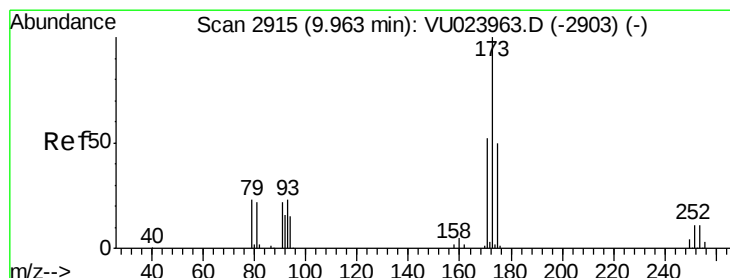
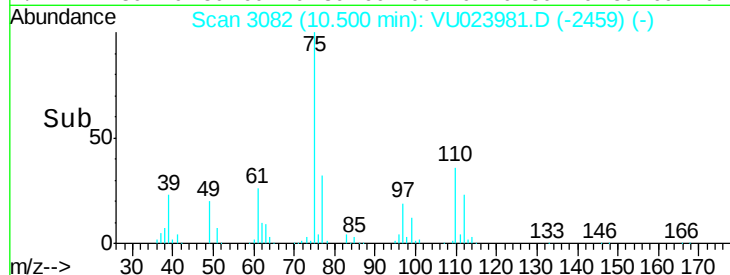
10.50

100000

50000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 46.92 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

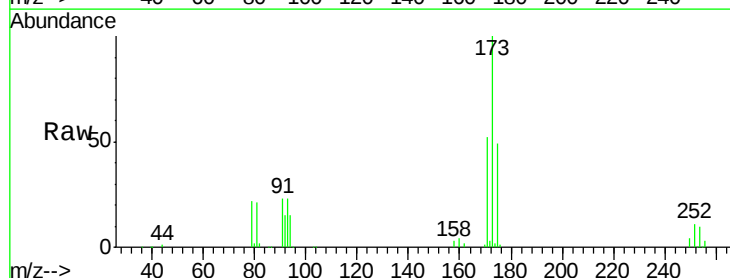
Tgt Ion: 173 Resp: 101602

Ion Ratio Lower Upper

173 100

175 48.8 38.7 58.1

254 10.2 8.9 13.3



Abundance Ion 173.00 (172.70 to 173.70): VU023963.D (-2903) (-)

Ion 175.00 (174.70 to 175.70): VU023963.D (-2903) (-)

Ion 254.00 (253.70 to 254.70): VU023963.D (-2903) (-)

9.96

80000

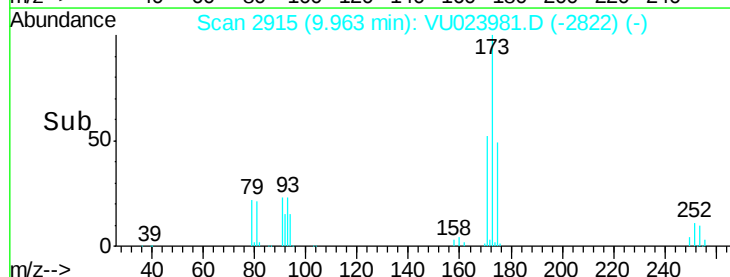
60000

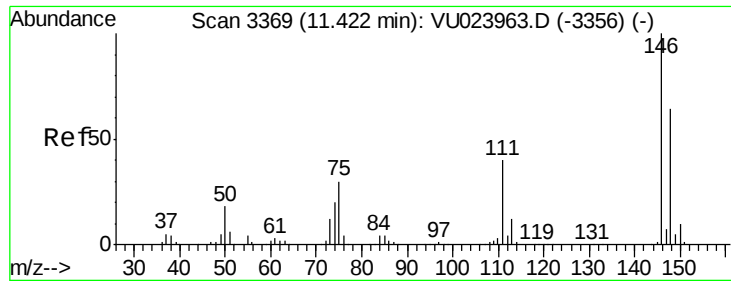
40000

20000

0

Time--> 9.90 9.96 10.00





#62

1,3-Dichlorobenzene

Concen: 47.49 ug/L

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

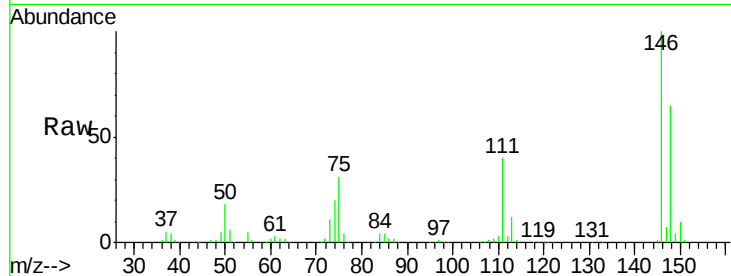
Tgt Ion:146 Resp: 253445

Ion Ratio Lower Upper

146 100

111 40.0 27.6 51.4

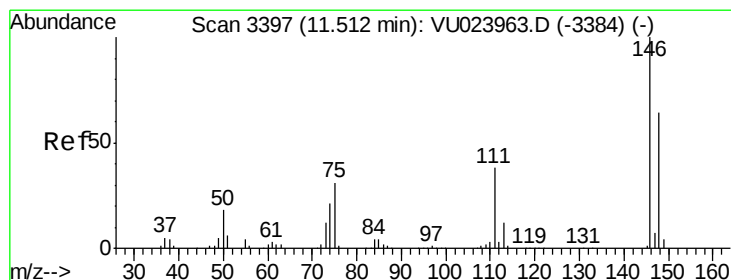
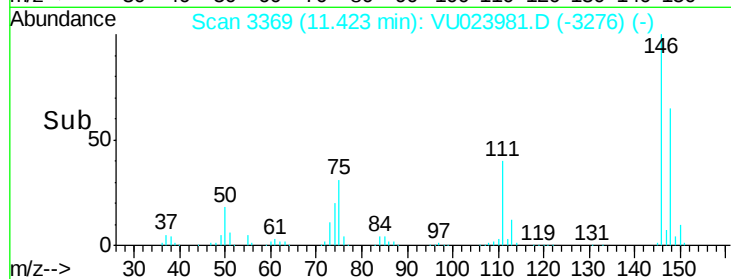
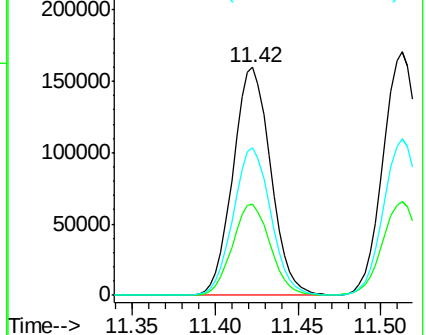
148 64.6 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 47.33 ug/L

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

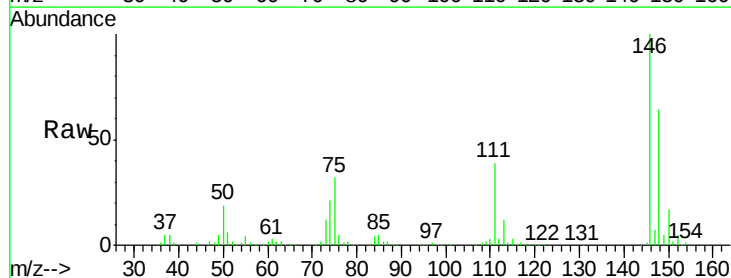
Tgt Ion:146 Resp: 267685

Ion Ratio Lower Upper

146 100

111 38.5 27.0 50.2

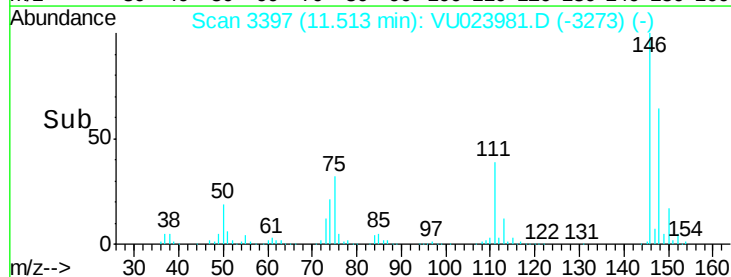
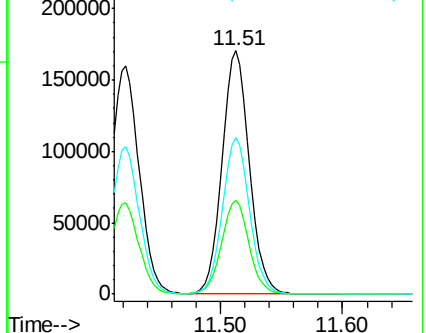
148 64.1 45.2 84.0

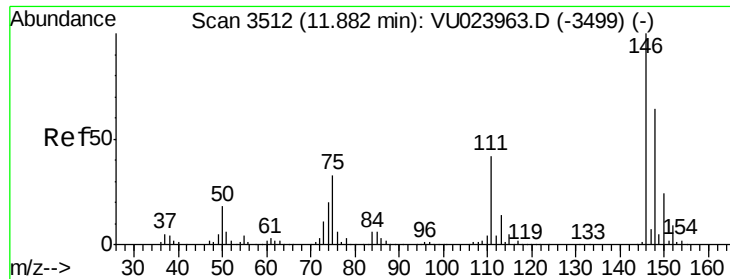


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 47.16 ug/L

RT: 11.89 min Scan# 3513

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

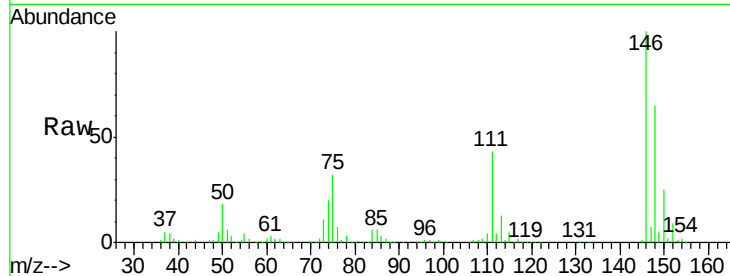
Tgt Ion: 146 Resp: 271462

Ion Ratio Lower Upper

146 100

111 42.6 32.1 48.1

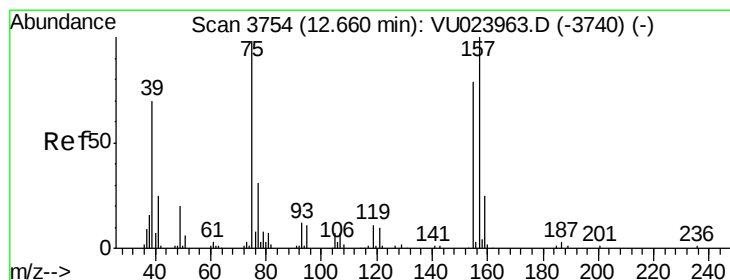
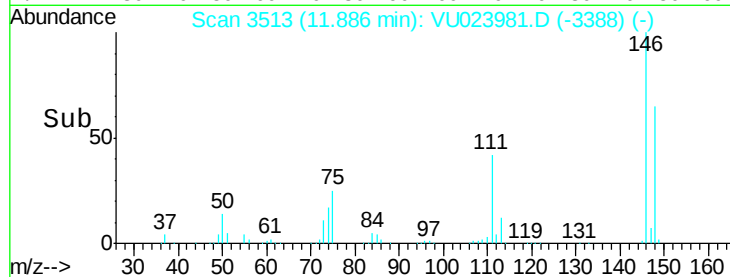
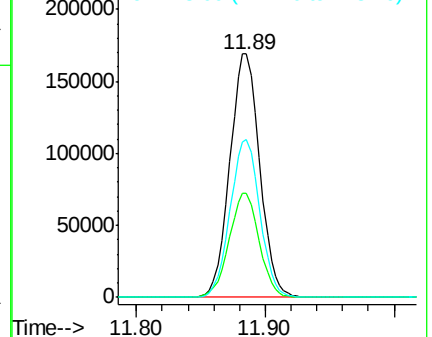
148 64.6 49.8 74.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 51.44 ug/L

RT: 12.66 min Scan# 3754

Delta R.T. 0.00 min

Lab File: VU023981.D

Acq: 21 May 2018 20:44

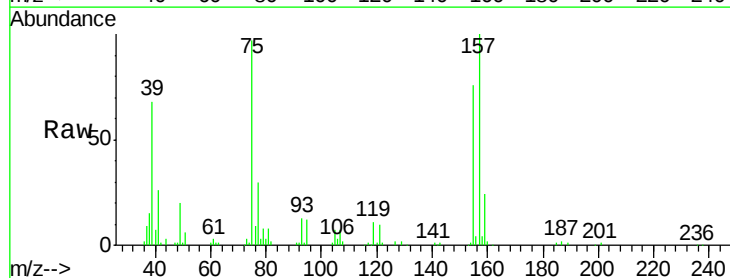
Tgt Ion: 75 Resp: 52221

Ion Ratio Lower Upper

75 100

155 78.6 69.4 104.2

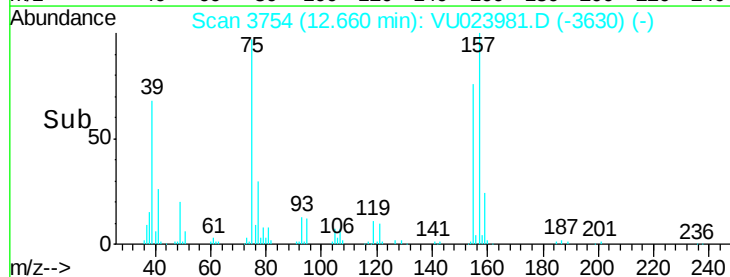
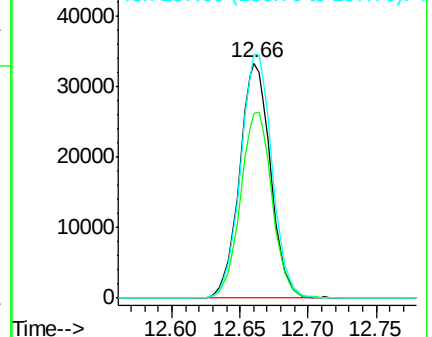
157 103.4 88.4 132.6

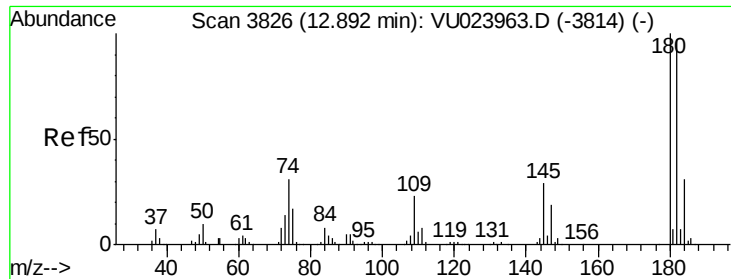


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

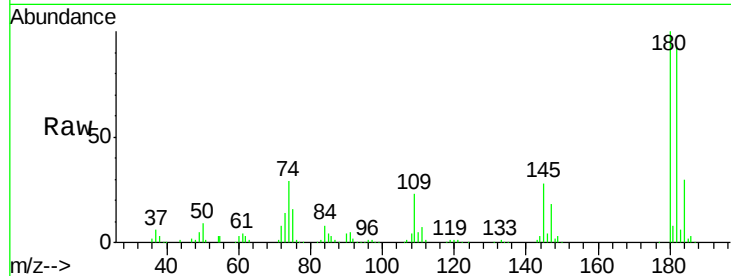
Ion 157.00 (156.70 to 157.70): V





#67  
 1,3,5-Trichlorobenzene  
 Concen: 46.82 ug/L  
 RT: 12.89 min Scan# 3826  
 Delta R.T. 0.00 min  
 Lab File: VU023981.D  
 Acq: 21 May 2018 20:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.5  | 77.4  | 116.2 |
| 184     | 29.9  | 24.2  | 36.4  |
| 145     | 28.0  | 22.5  | 33.7  |

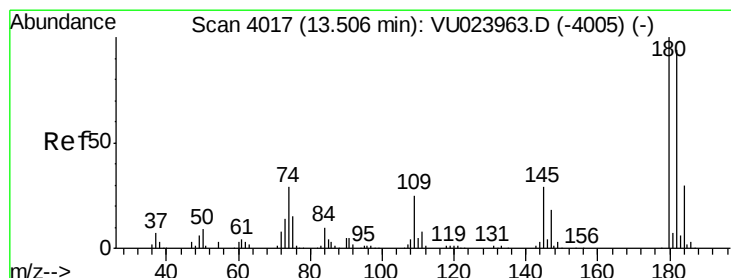
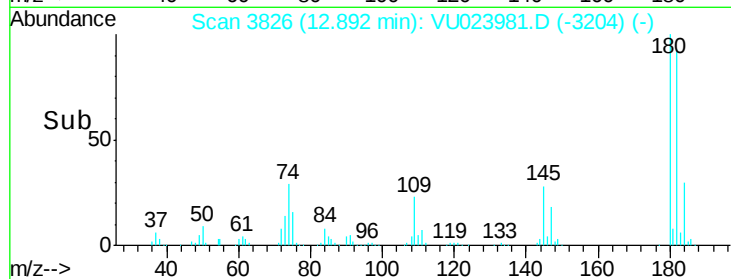
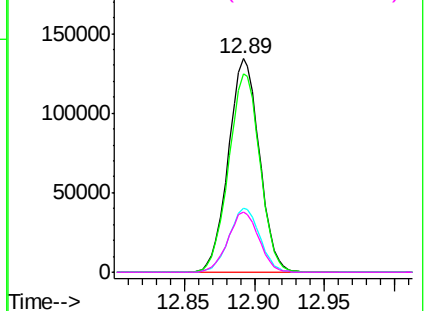


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

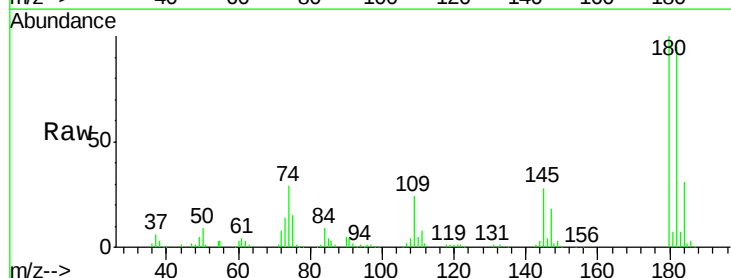
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 48.66 ug/L  
 RT: 13.51 min Scan# 4018  
 Delta R.T. 0.00 min  
 Lab File: VU023981.D  
 Acq: 21 May 2018 20:44

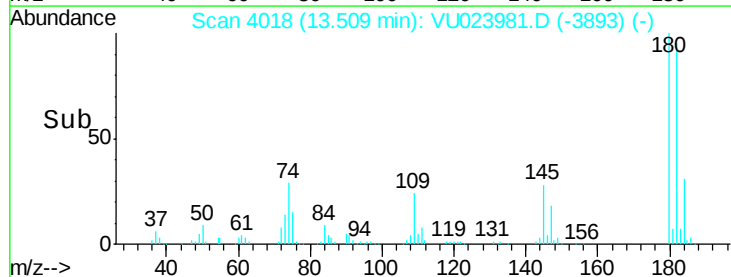
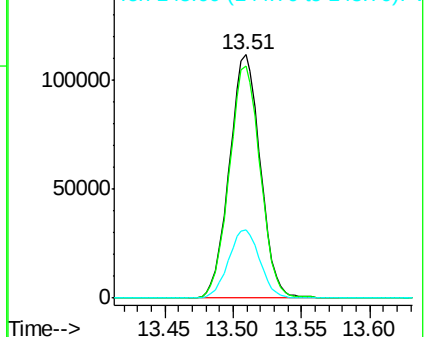
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 76.1  | 114.1 |
| 145     | 28.3  | 23.0  | 34.4  |

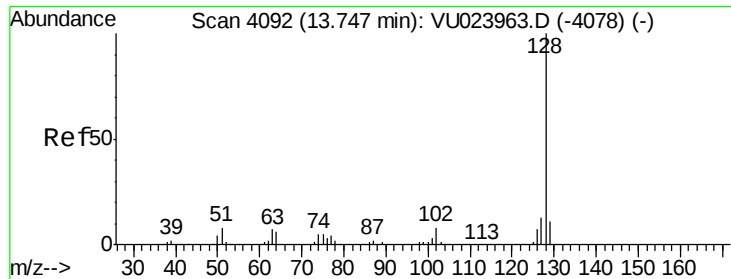


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

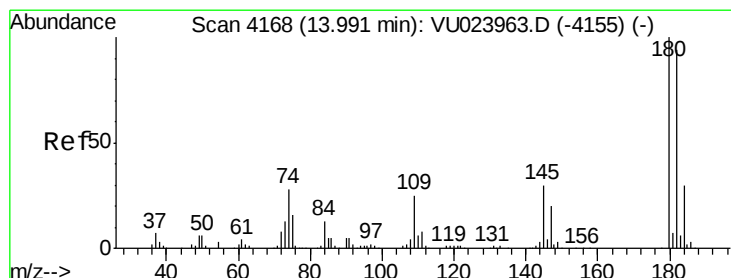
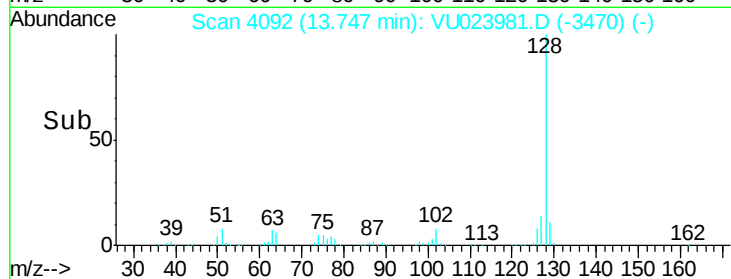
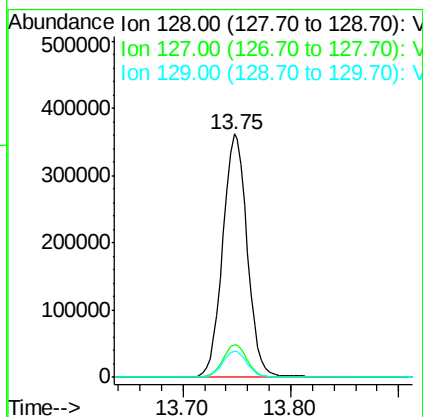
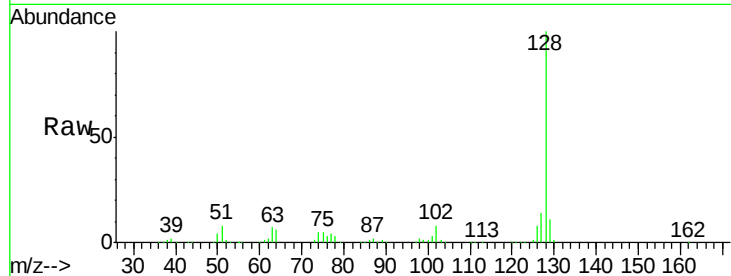
Ion 145.00 (144.70 to 145.70): V





#69  
Naphthalene  
Concen: 55.85 ug/L  
RT: 13.75 min Scan# 4092  
Delta R.T. 0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

Tgt Ion:128 Resp: 574663  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.3 15.5  
129 10.8 8.6 12.8



#70  
1,2,3-Trichlorobenzene  
Concen: 50.22 ug/L  
RT: 13.99 min Scan# 4168  
Delta R.T. 0.00 min  
Lab File: VU023981.D  
Acq: 21 May 2018 20:44

Tgt Ion:180 Resp: 194234  
Ion Ratio Lower Upper  
180 100  
182 95.3 75.6 113.4  
145 30.7 23.9 35.9

