

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040720\  
 Data File : VU037598.D  
 Acq On : 07 Apr 2020 09:41  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB37

Quant Time: Apr 08 02:20:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 07 12:54:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 182735   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 171187   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 83154    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 59010    | 39.76    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 79.52% |
| 7) Chloroethane-d5             | 1.93    | 69    | 51381    | 43.09    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.18% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 108322   | 43.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.84% |
| 21) 2-Butanone-d5              | 4.66    | 46    | 107182   | 96.09    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 96.09% |
| 24) Chloroform-d               | 5.11    | 84    | 114823   | 45.92    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.84% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 76046    | 45.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.62% |
| 32) Benzene-d6                 | 5.76    | 84    | 225865   | 45.53    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.06% |
| 36) 1,2-Dichloropropane-d6     | 6.73    | 67    | 77697    | 46.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.08% |
| 41) Toluene-d8                 | 7.92    | 98    | 207214   | 44.83    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.66% |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 39519    | 43.59    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.18% |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 83207    | 94.06    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 94.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78   | 84    | 116179   | 48.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.34% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 78086    | 46.02    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.04% |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.40 | 85  | 53937  | 45.657  | ug/L 99  |
| 3) Chloromethane               | 1.54 | 50  | 52887  | 42.204  | ug/L 100 |
| 5) Vinyl chloride              | 1.62 | 62  | 57980  | 46.595  | ug/L 99  |
| 6) Bromomethane                | 1.87 | 94  | 32827  | 53.489  | ug/L 98  |
| 8) Chloroethane                | 1.95 | 64  | 34271  | 46.697  | ug/L 96  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 85740  | 48.566  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 49635  | 49.292  | ug/L 96  |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 46297  | 47.363  | ug/L 98  |
| 13) Acetone                    | 2.65 | 43  | 73665  | 114.251 | ug/L 98  |
| 14) Carbon disulfide           | 2.82 | 76  | 123152 | 43.616  | ug/L 100 |
| 15) Methyl Acetate             | 2.98 | 43  | 66436  | 45.471  | ug/L 99  |
| 16) Methylene chloride         | 3.08 | 84  | 55407  | 46.731  | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 47458  | 45.088  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 3.40 | 73  | 177918 | 48.221  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 97645  | 47.349  | ug/L 98  |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 55723  | 45.972  | ug/L 98  |
| 22) 2-Butanone                 | 4.74 | 43  | 100608 | 95.601  | ug/L 100 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040720\  
 Data File : VU037598.D  
 Acq On : 07 Apr 2020 09:41  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB37

Quant Time: Apr 08 02:20:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 07 12:54:25 2020  
 Response via : Initial Calibration

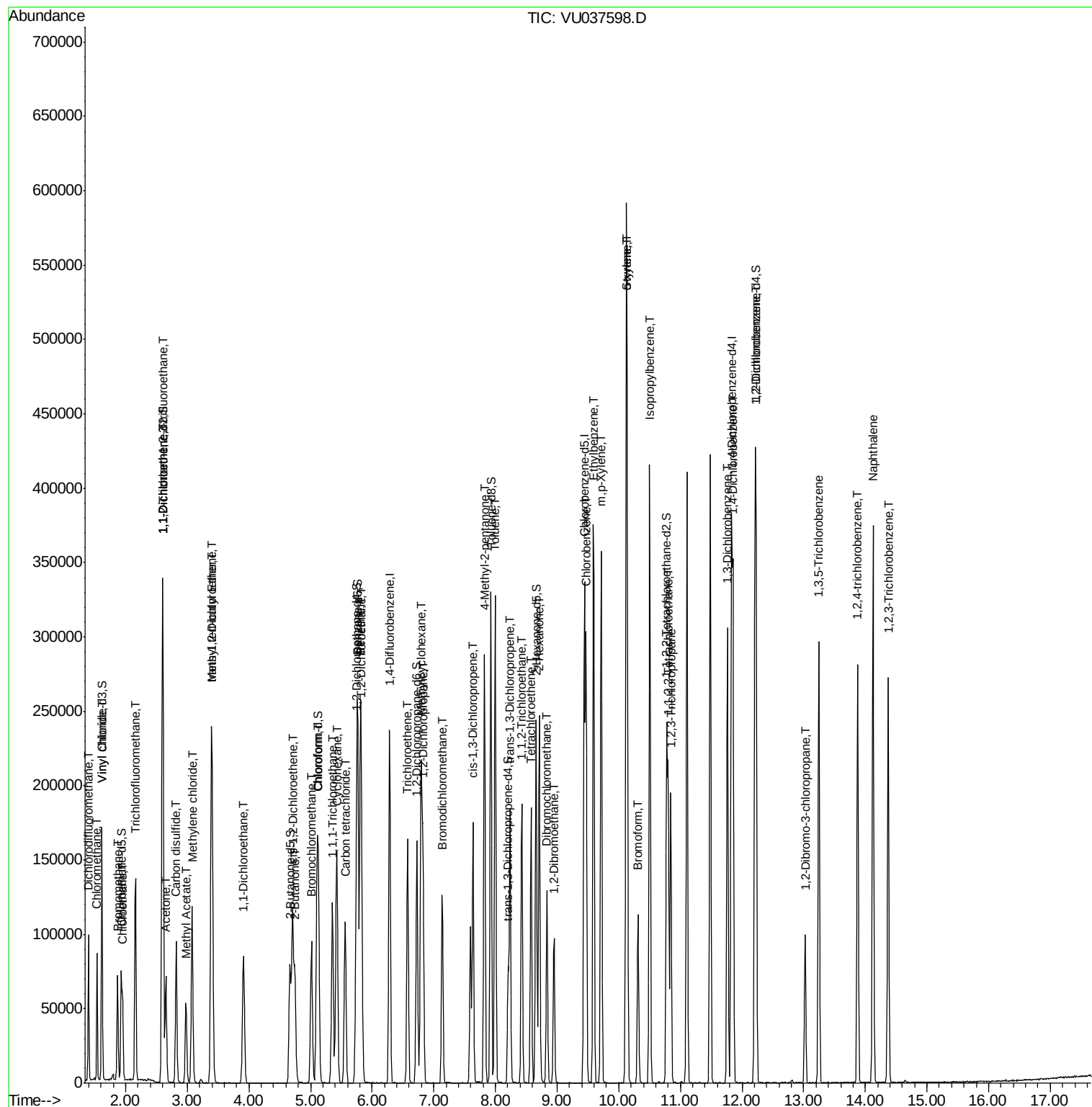
| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 27869    | 47.903 | ug/L  | 94       |
| 25) Chloroform                  | 5.13  | 83   | 102669   | 47.750 | ug/L  | 96       |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 77631    | 46.783 | ug/L  | 100      |
| 29) Cyclohexane                 | 5.43  | 56   | 83639    | 46.620 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 5.36  | 97   | 86714    | 47.786 | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 69720    | 46.682 | ug/L  | 100      |
| 33) Benzene                     | 5.81  | 78   | 212737   | 47.428 | ug/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 55056    | 46.942 | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.79  | 83   | 85118    | 46.970 | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 60074    | 47.006 | ug/L  | 98       |
| 38) Bromodichloromethane        | 7.14  | 83   | 79641    | 47.913 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 94744    | 47.464 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 188485   | 90.886 | ug/L  | 99       |
| 42) Toluene                     | 8.00  | 91   | 227209   | 46.809 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 95199    | 48.429 | ug/L  | 94       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 55945    | 47.946 | ug/L  | 98       |
| 46) Tetrachloroethene           | 8.58  | 164  | 36816    | 46.751 | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.71  | 43   | 152303   | 94.436 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.83  | 129  | 62014    | 47.649 | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 60953    | 47.499 | ug/L  | 99       |
| 51) Chlorobenzene               | 9.47  | 112  | 144231   | 47.906 | ug/L  | 97       |
| 52) Ethylbenzene                | 9.59  | 91   | 260312   | 47.423 | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.72  | 106  | 98251    | 47.986 | ug/L  | 94       |
| 54) o-xylene                    | 10.12 | 106  | 96417    | 48.858 | ug/L  | 99       |
| 55) Styrene                     | 10.13 | 104  | 168044   | 48.091 | ug/L  | 97       |
| 56) Isopropylbenzene            | 10.50 | 105  | 260488   | 48.684 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 100427   | 47.742 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 78665    | 47.880 | ug/L  | 100      |
| 61) Bromoform                   | 10.31 | 173  | 46695    | 49.122 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 113857   | 47.420 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 116410   | 48.038 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 114824   | 48.298 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 26105    | 45.778 | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 13.25 | 180  | 81617    | 48.973 | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.88 | 180  | 77903    | 49.034 | ug/L  | 99       |
| 69) Naphthalene                 | 14.12 | 128  | 284464   | 42.262 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.37 | 180  | 75683    | 47.155 | ug/L  | 99       |

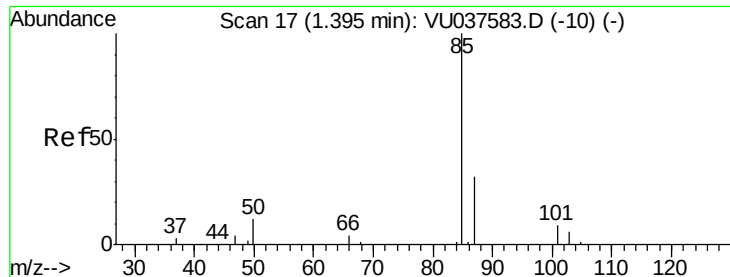
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040720\  
Data File : VU037598.D  
Acq On : 07 Apr 2020 09:41  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB37

Quant Time: Apr 08 02:20:33 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040320WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 07 12:54:25 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 45.657 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampleId :

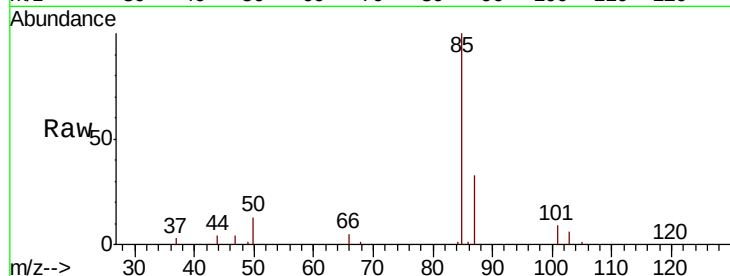
BFB37

Tot Ion: 85 Resp: 53937

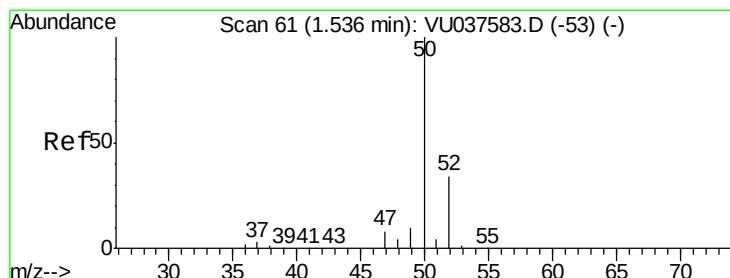
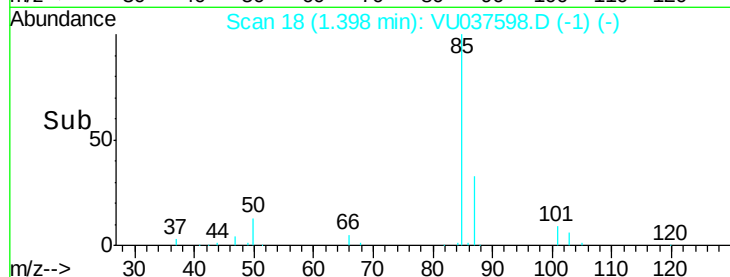
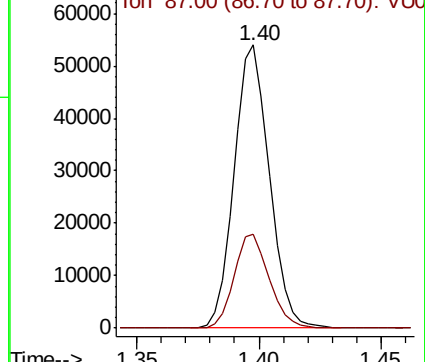
Ion Ratio Lower Upper

85 100

87 33.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037583.D (-10) (-)



#3

Chloromethane

Concen: 42.204 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU037598.D

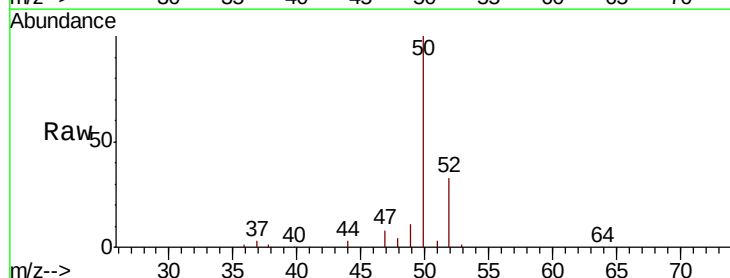
Acq: 07 Apr 2020 09:41

Tgt Ion: 50 Resp: 52887

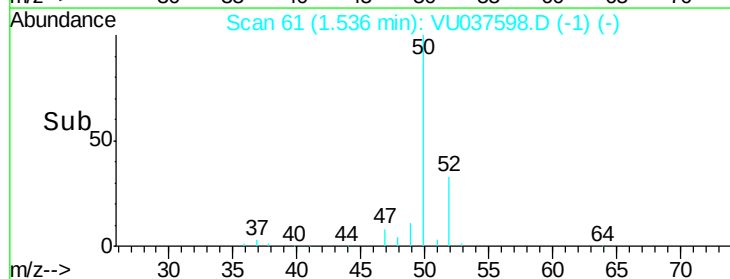
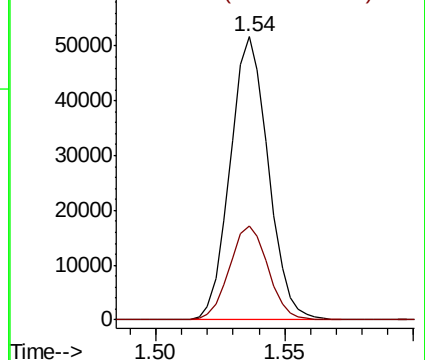
Ion Ratio Lower Upper

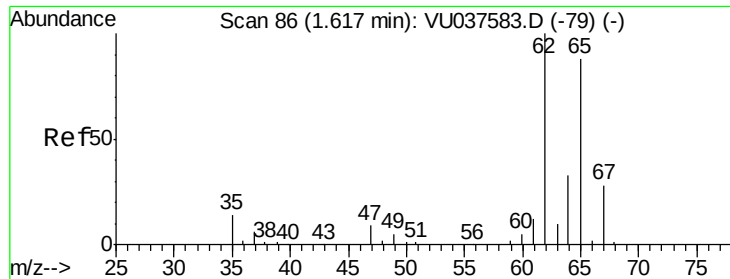
50 100

52 33.4 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU037583.D (-53) (-)

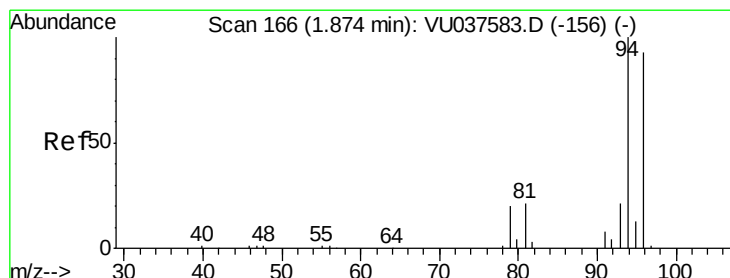
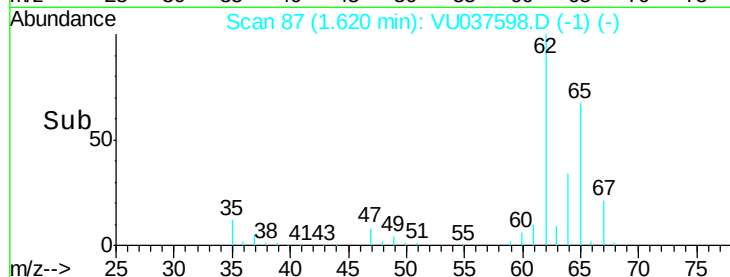
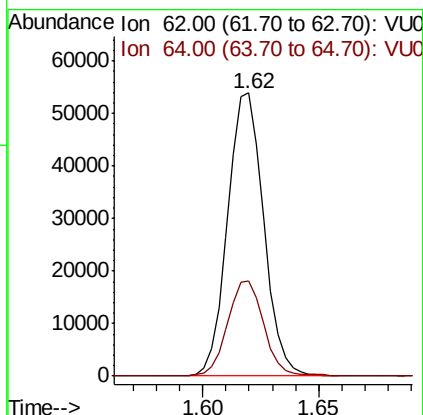
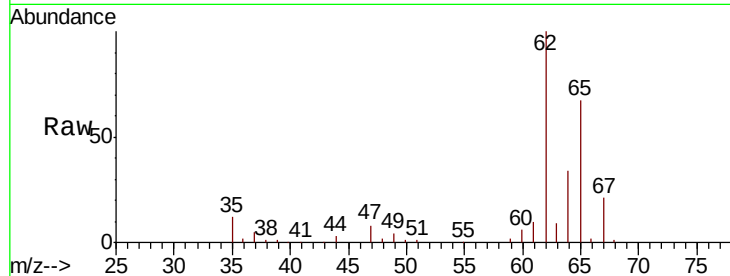




#5  
 Vinyl chloride  
 Concen: 46.595 ug/L  
 RT: 1.62 min Scan# 87  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

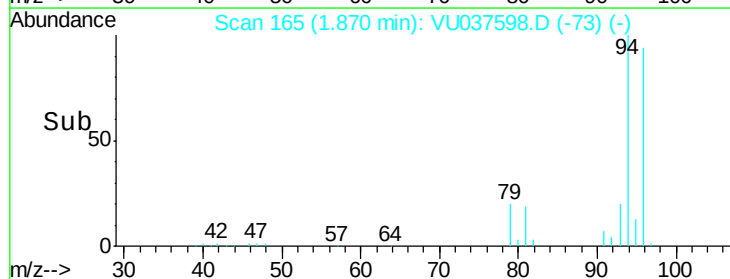
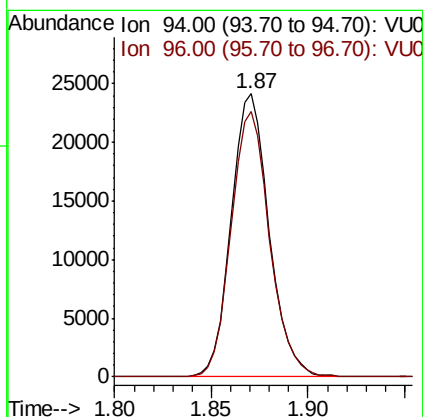
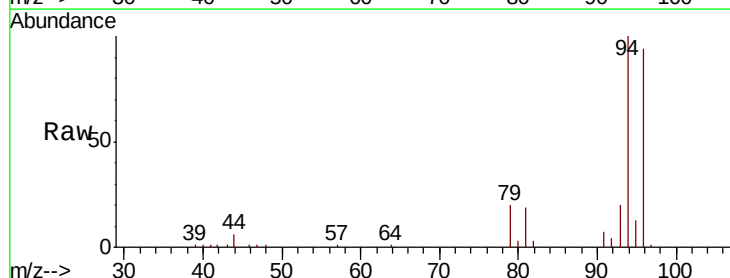
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB37

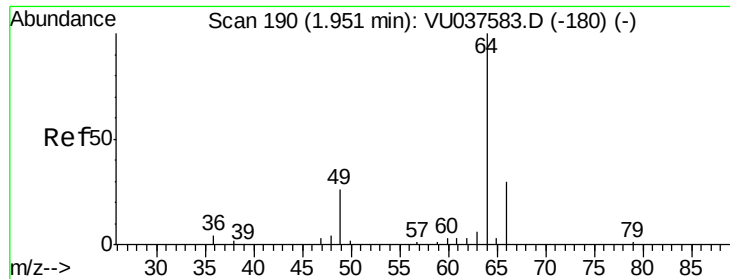
Tot Ion: 62 Resp: 57980  
 Ion Ratio Lower Upper  
 62 100  
 64 33.6 24.0 44.6



#6  
 Bromomethane  
 Concen: 53.489 ug/L  
 RT: 1.87 min Scan# 165  
 Delta R.T. -0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

Tgt Ion: 94 Resp: 32827  
 Ion Ratio Lower Upper  
 94 100  
 96 93.7 64.4 119.6

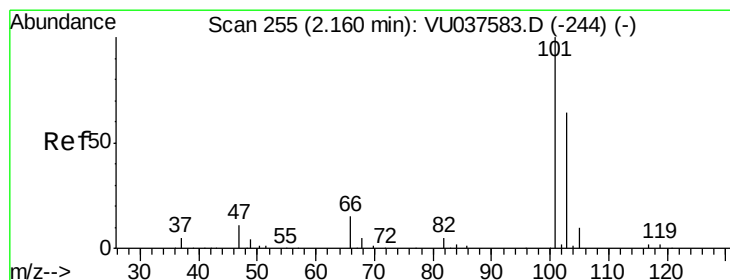
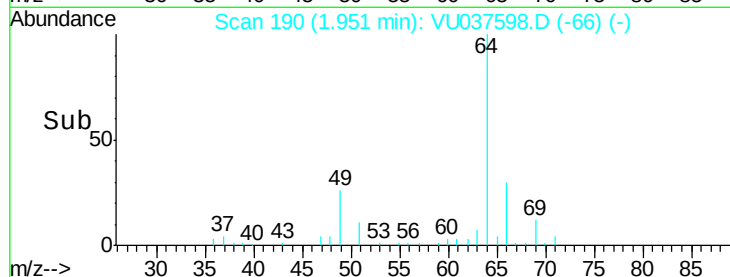
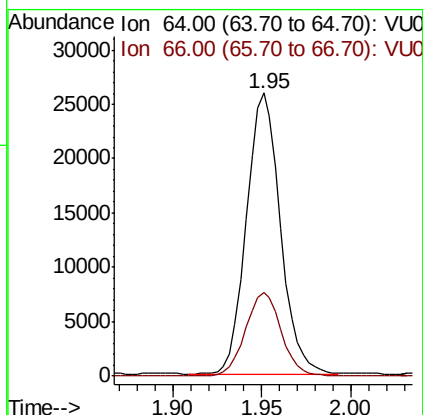
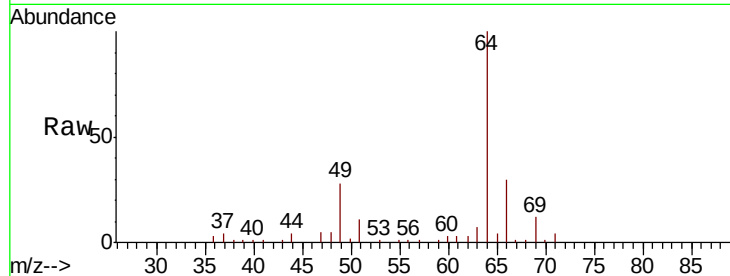




#8  
Chloroethane  
Concen: 46.697 ug/L  
RT: 1.95 min Scan# 190  
Delta R.T. -0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

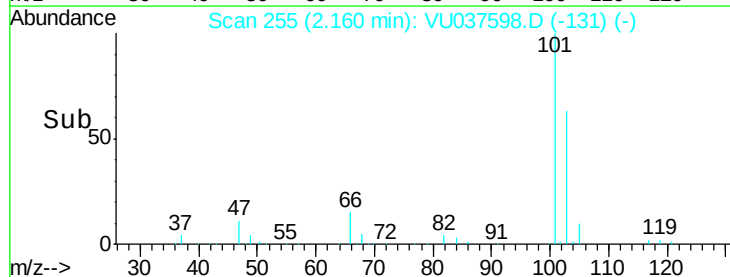
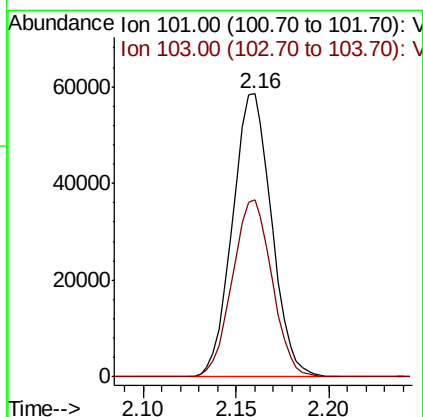
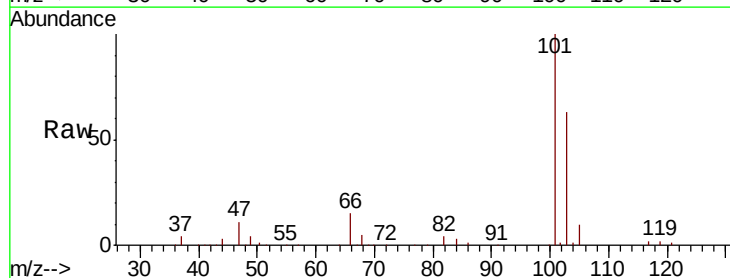
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB37

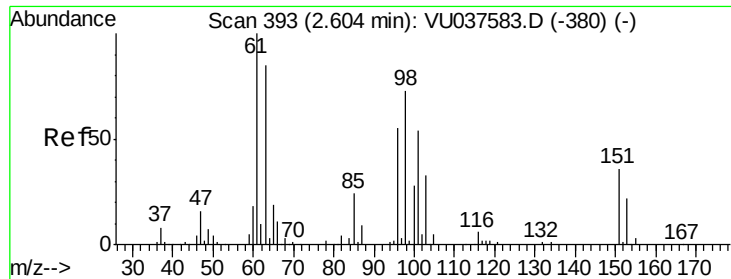
Tot Ion: 64 Resp: 34271  
Ion Ratio Lower Upper  
64 100  
66 29.6 22.3 41.3



#9  
Trichlorofluoromethane  
Concen: 48.566 ug/L  
RT: 2.16 min Scan# 255  
Delta R.T. -0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

Tgt Ion:101 Resp: 85740  
Ion Ratio Lower Upper  
101 100  
103 63.2 51.2 76.8





#10

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

Concen: 49.292 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampleId :

BFB37

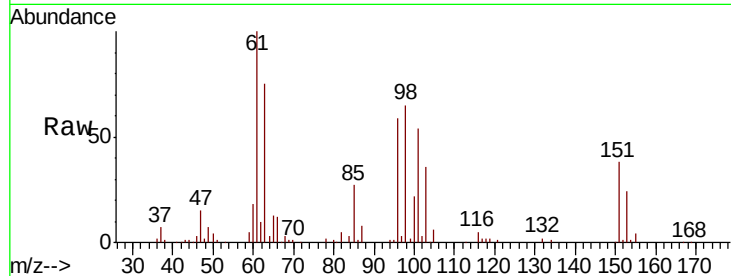
Tot Ion:101 Resp: 49635

Ion Ratio Lower Upper

101 100

85 46.1 35.4 53.2

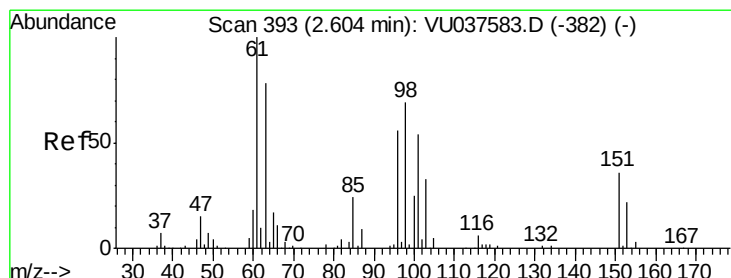
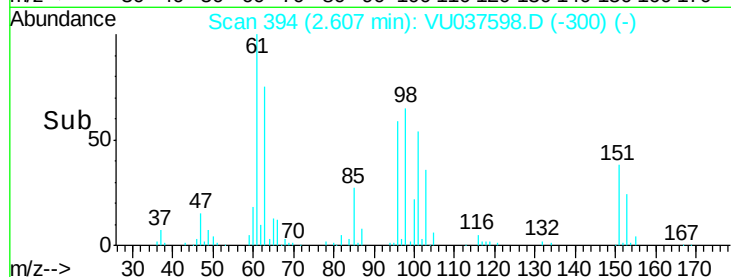
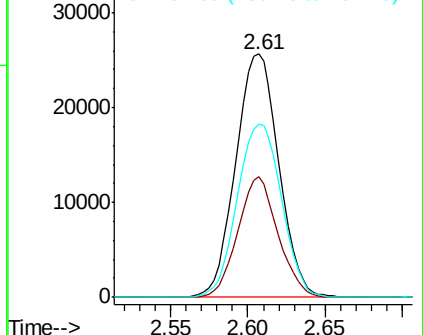
151 73.3 55.3 82.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 47.363 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

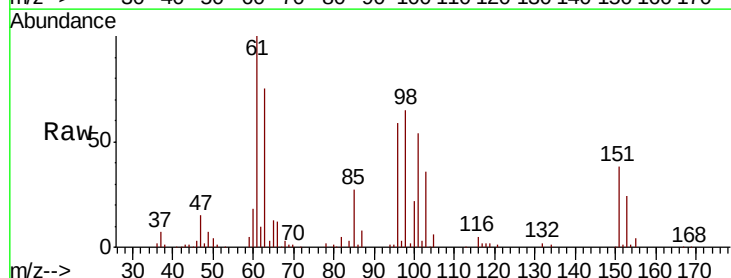
Tgt Ion: 96 Resp: 46297

Ion Ratio Lower Upper

96 100

61 170.0 117.2 217.8

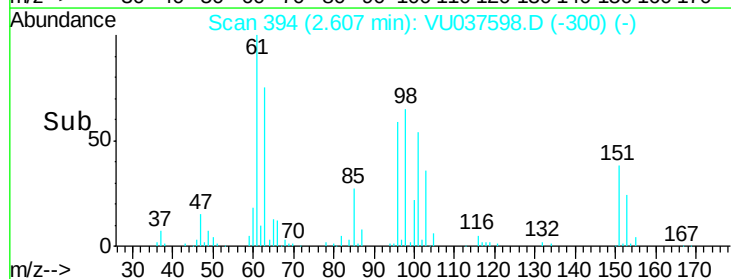
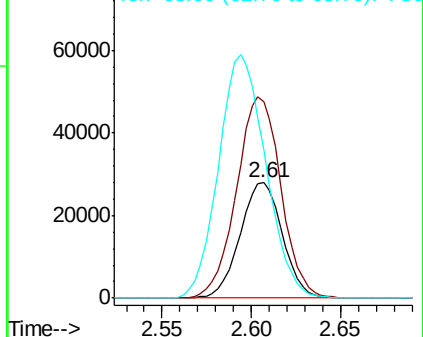
63 127.8 90.9 168.9

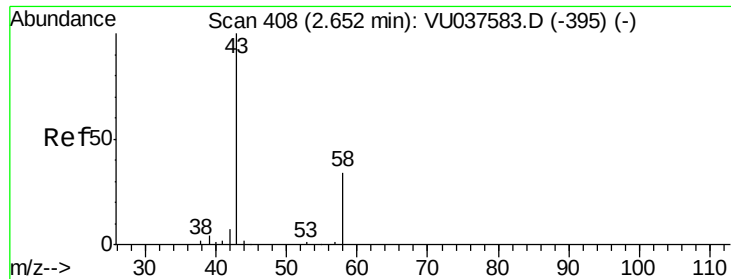


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 114.251 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampleId :

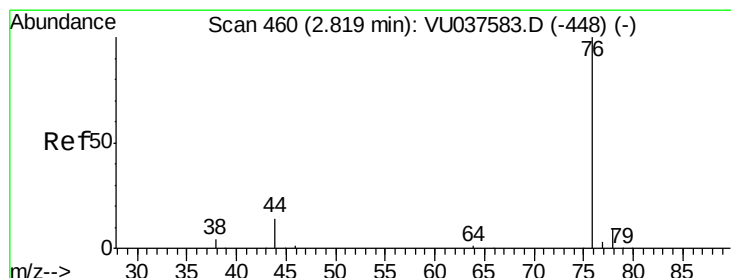
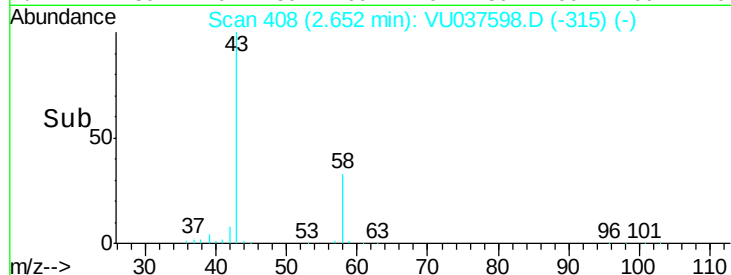
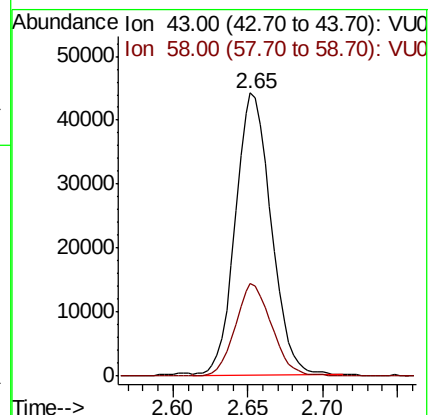
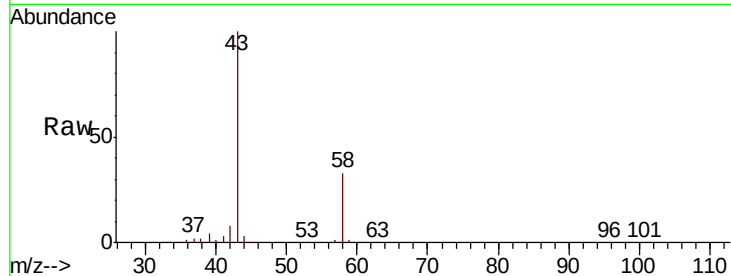
BFB37

Tot Ion: 43 Resp: 73665

Ion Ratio Lower Upper

43 100

58 33.3 0.0 68.8



#14

Carbon disulfide

Concen: 43.616 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037598.D

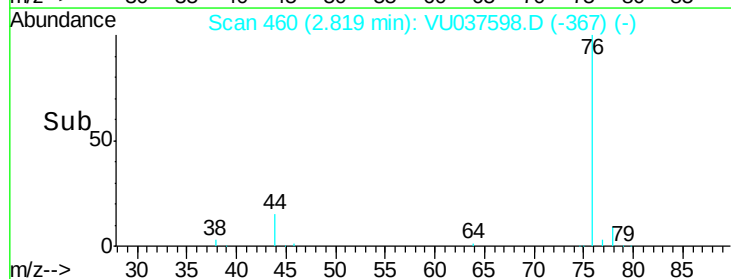
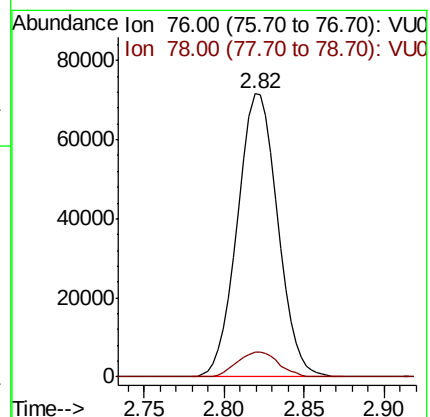
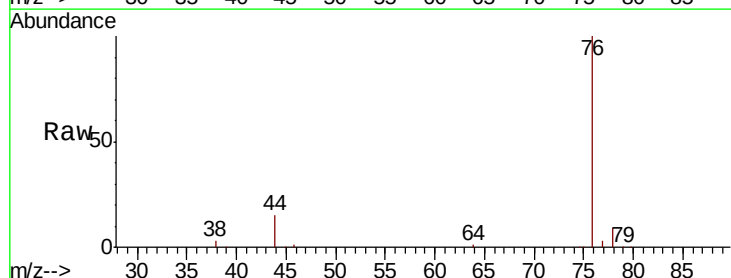
Acq: 07 Apr 2020 09:41

Tgt Ion: 76 Resp: 123152

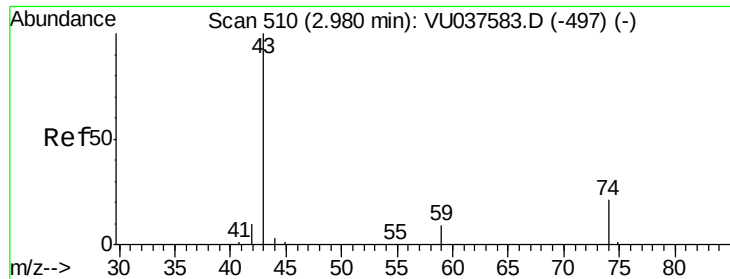
Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7



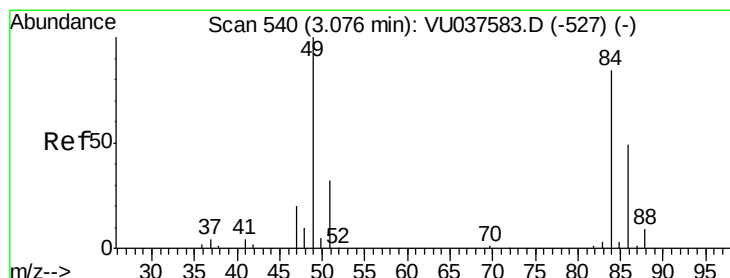
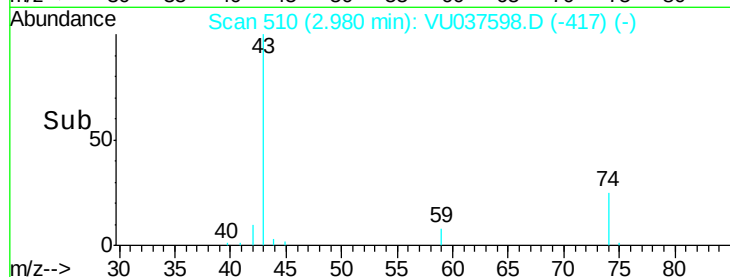
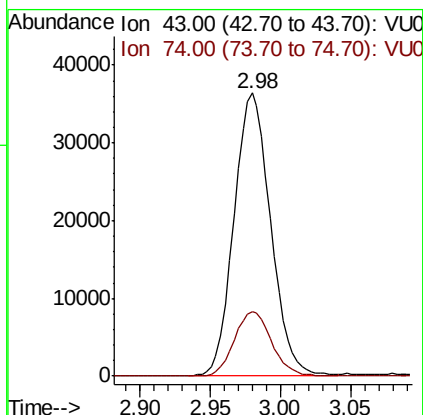
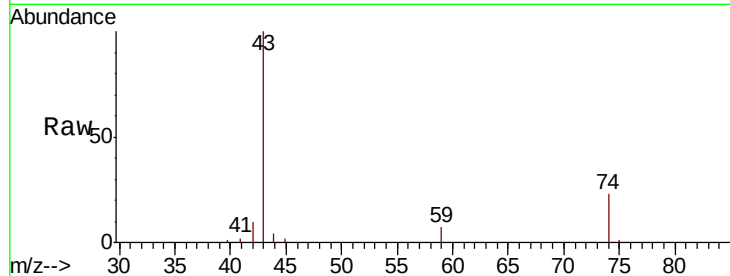




#15  
Methvl Acetate  
Concen: 45.471 ug/L  
RT: 2.98 min Scan# 510  
Delta R.T. -0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

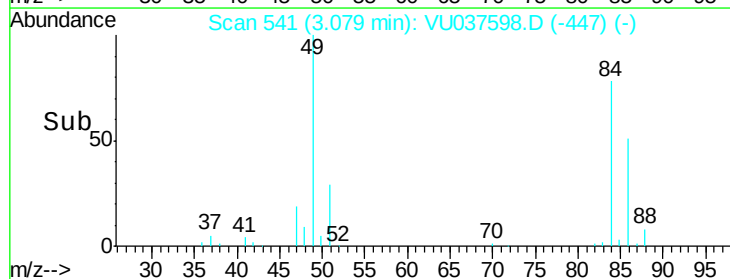
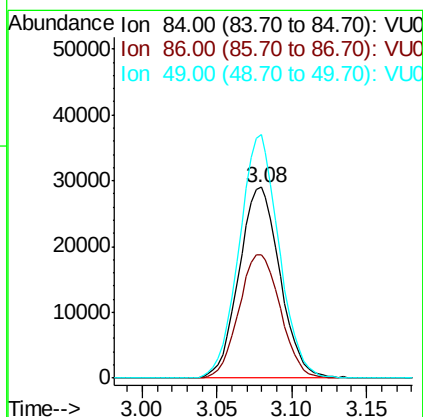
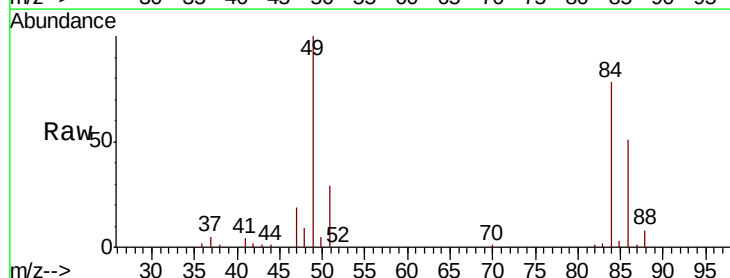
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB37

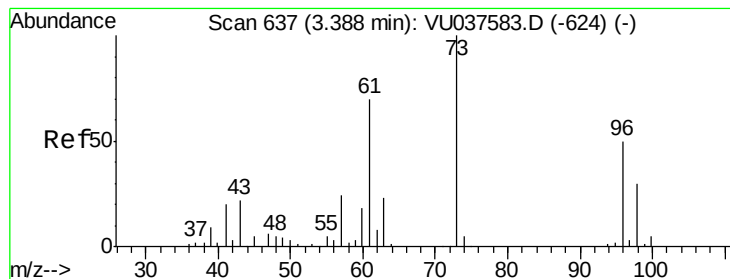
Tot Ion: 43 Resp: 66436  
Ion Ratio Lower Upper  
43 100  
74 23.0 18.8 28.2



#16  
Methylene chloride  
Concen: 46.731 ug/L  
RT: 3.08 min Scan# 541  
Delta R.T. 0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

Tgt Ion: 84 Resp: 55407  
Ion Ratio Lower Upper  
84 100  
86 64.5 44.8 83.2  
49 127.5 89.7 166.5





#17

trans-1,2-Dichloroethene

Concen: 45.088 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampleId :

BFB37

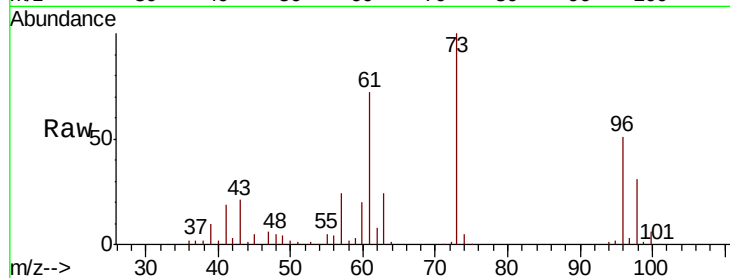
Tot Ion: 96 Resp: 47458

Ion Ratio Lower Upper

96 100

61 141.8 97.3 180.7

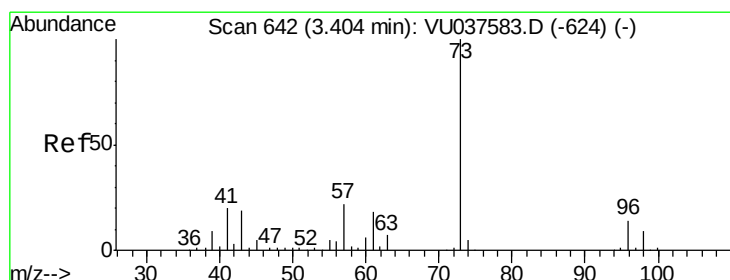
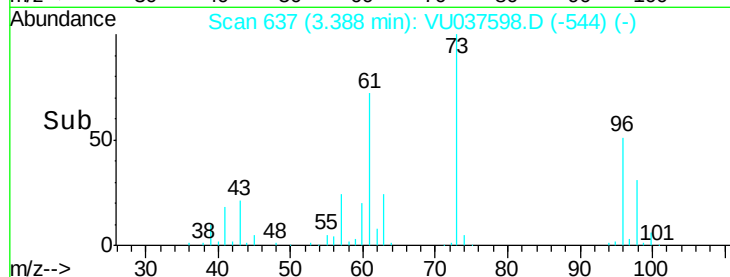
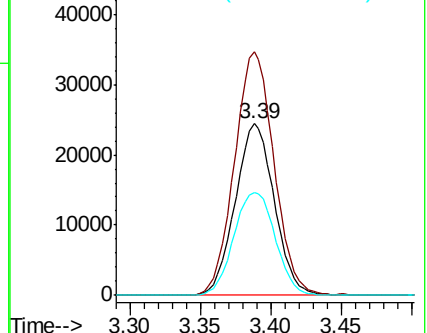
98 60.2 42.7 79.3



Abundance Ion 96.00 (95.70 to 96.70): VU037598.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU037598.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU037598.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 48.221 ug/L

RT: 3.40 min Scan# 641

Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

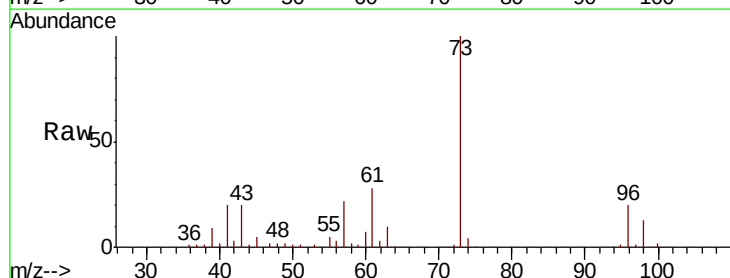
Tgt Ion: 73 Resp: 177918

Ion Ratio Lower Upper

73 100

43 20.8 16.4 24.6

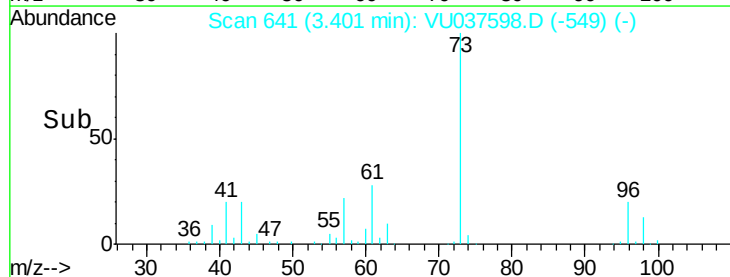
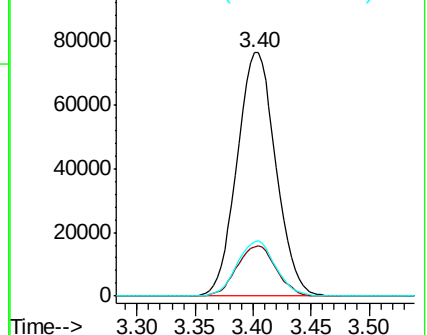
57 22.5 17.7 26.5

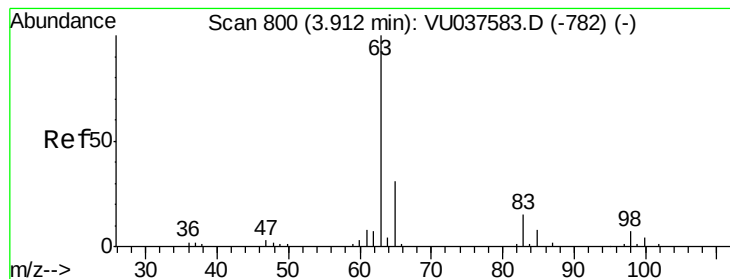


Abundance Ion 73.00 (72.70 to 73.70): VU037598.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU037598.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU037598.D (-549) (-)





#19

1,1-Dichloroethane

Concen: 47.349 ug/L

RT: 3.91 min Scan# 800

Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampled :

BFB37

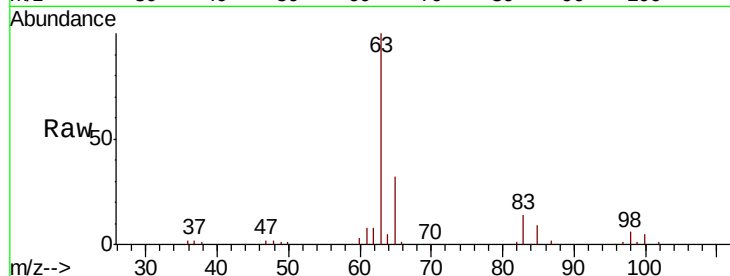
Tot Ion: 63 Resp: 97645

Ion Ratio Lower Upper

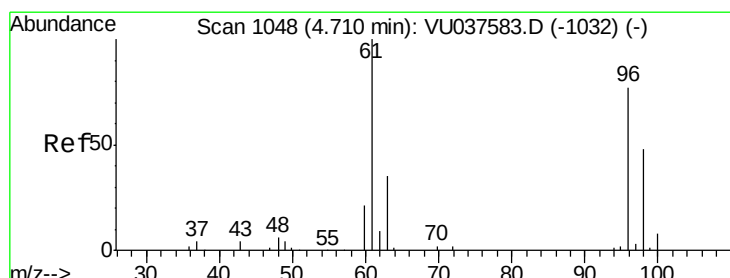
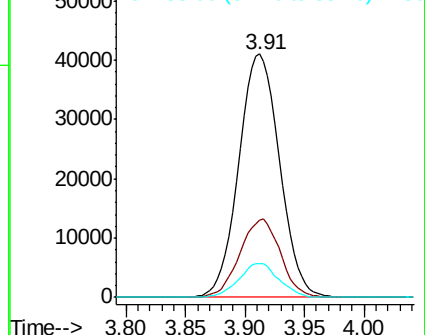
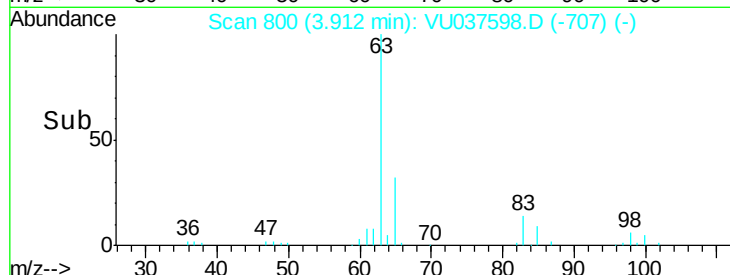
63 100

65 31.8 23.2 43.2

83 14.1 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VU037598.D (-707) (-)



#20

cis-1,2-Dichloroethene

Concen: 45.972 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

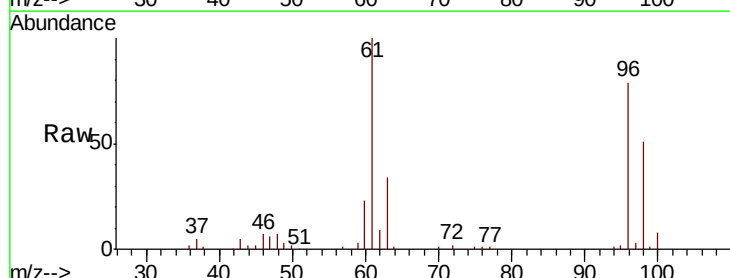
Tgt Ion: 96 Resp: 55723

Ion Ratio Lower Upper

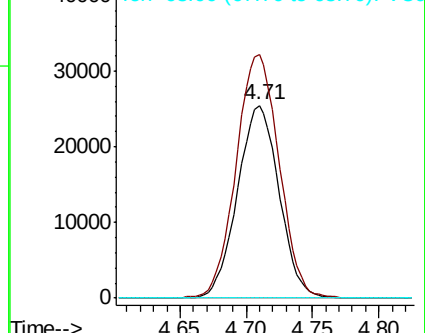
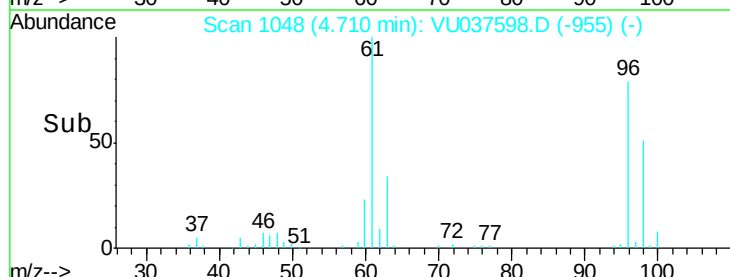
96 100

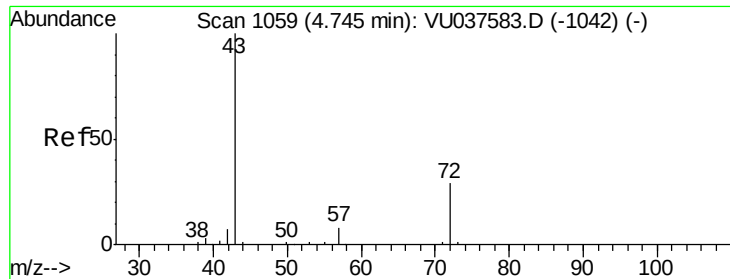
61 126.5 90.2 167.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037598.D (-955) (-)





#22

2-Butanone

Concen: 95.601 ug/L

RT: 4.74 min Scan# 1059

Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampled :

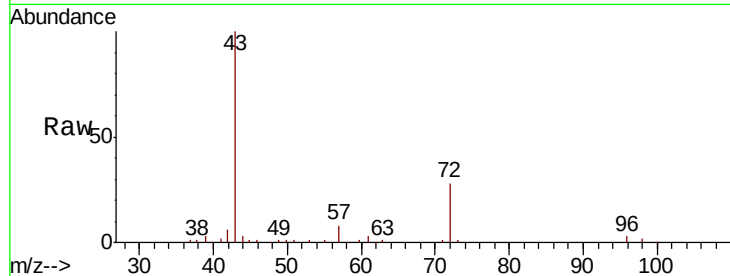
BFB37

Tot Ion: 43 Resp: 100608

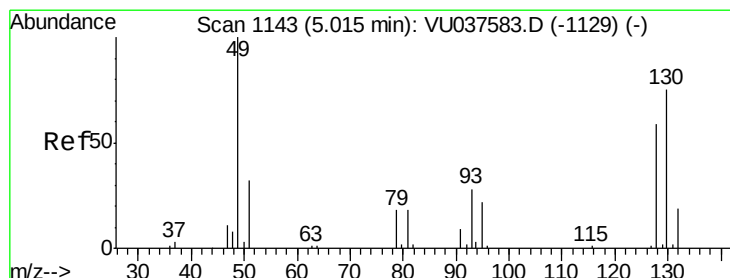
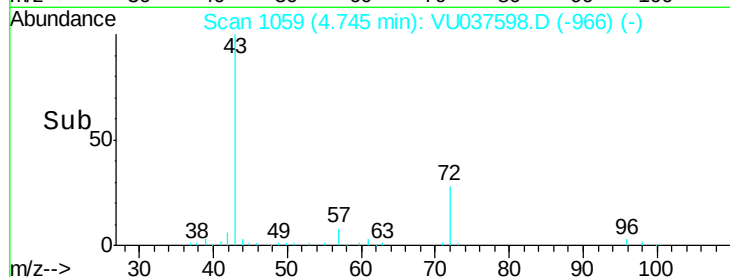
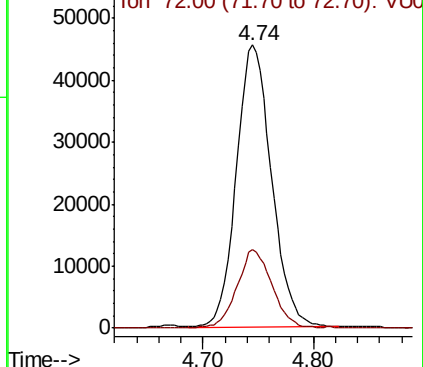
Ion Ratio Lower Upper

43 100

72 27.7 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU037598.D (-966) (-)



#23

Bromochloromethane

Concen: 47.903 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Tgt Ion: 128 Resp: 27869

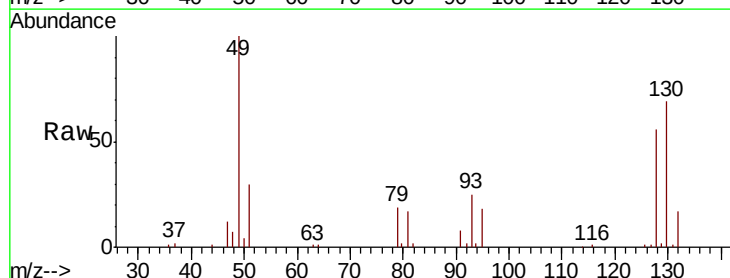
Ion Ratio Lower Upper

128 100

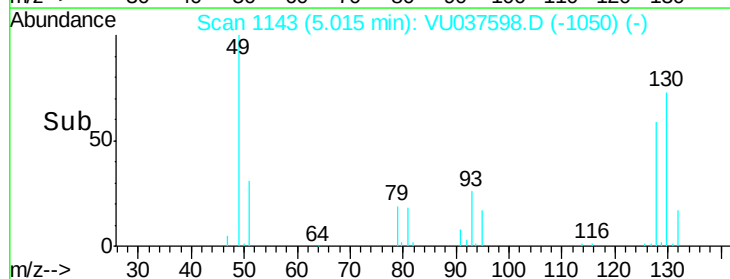
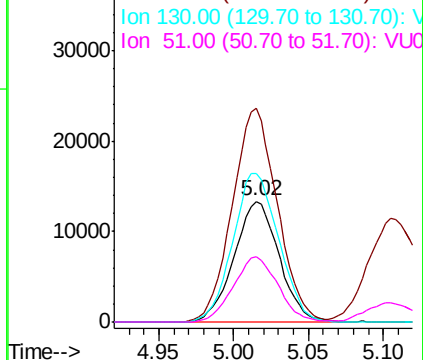
49 177.4 127.3 236.5

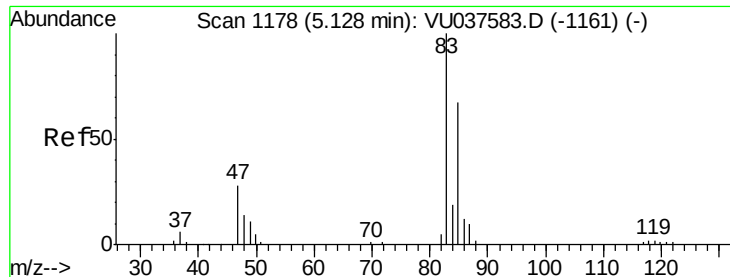
130 123.2 93.9 174.5

51 53.9 49.4 74.0



Abundance Ion 128.00 (127.70 to 128.70): VU037598.D (-1050) (-)

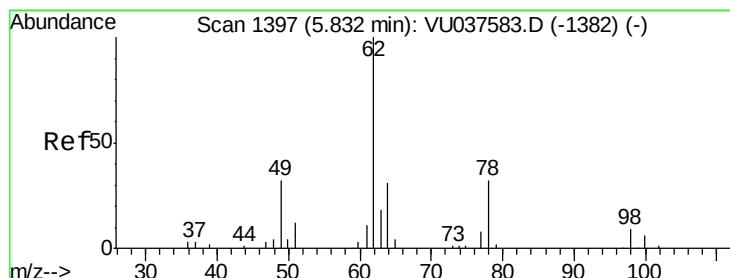
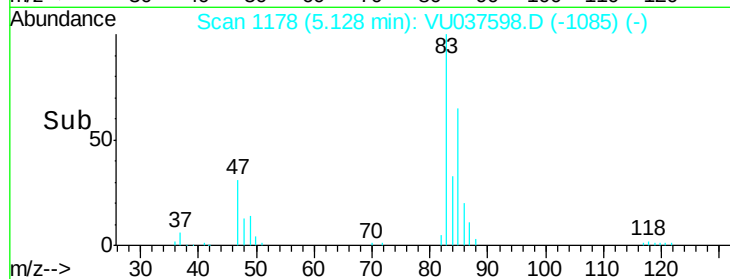
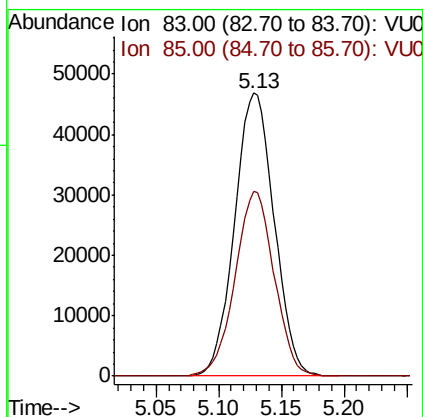
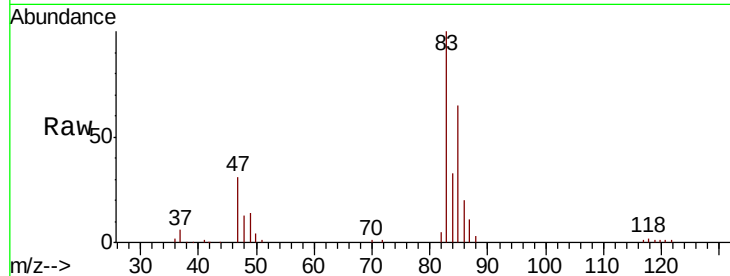




#25  
Chloroform  
Concen: 47.750 ug/L  
RT: 5.13 min Scan# 1178  
Delta R.T. -0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

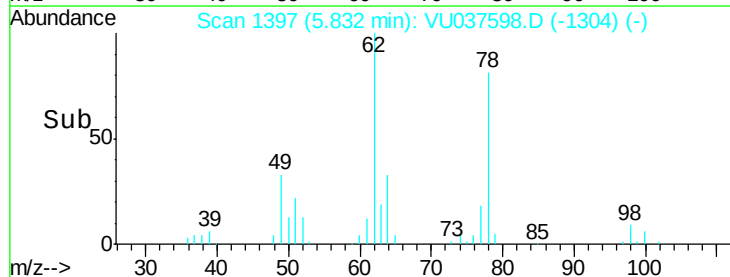
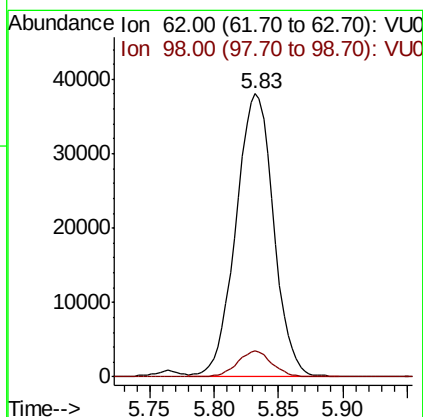
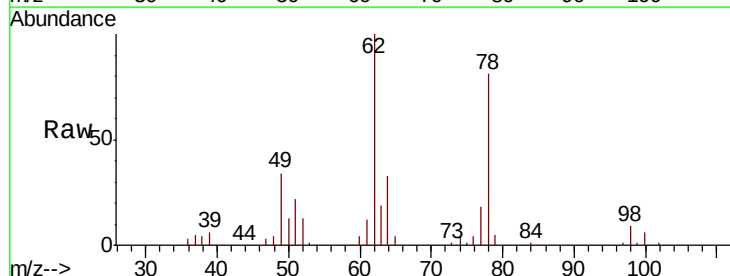
Instrument :  
MSVOA\_U  
ClientSampled :  
BFB37

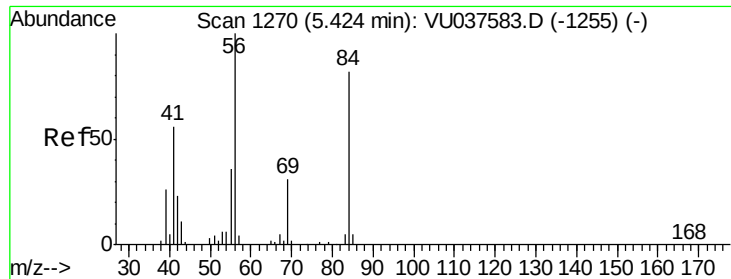
Tot Ion: 83 Resp: 102669  
Ion Ratio Lower Upper  
83 100  
85 65.4 43.7 81.1



#27  
1,2-Dichloroethane  
Concen: 46.783 ug/L  
RT: 5.83 min Scan# 1397  
Delta R.T. -0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

Tgt Ion: 62 Resp: 77631  
Ion Ratio Lower Upper  
62 100  
98 9.0 7.1 10.7

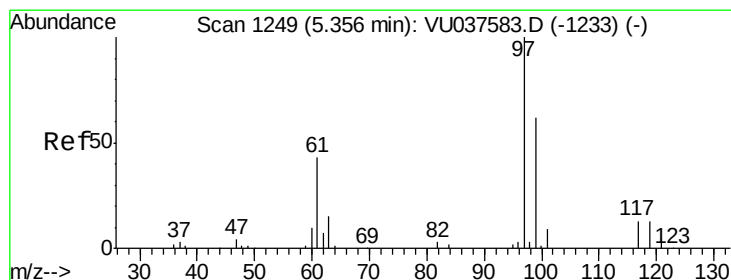
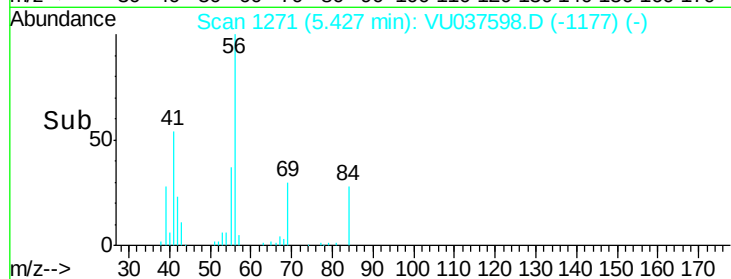
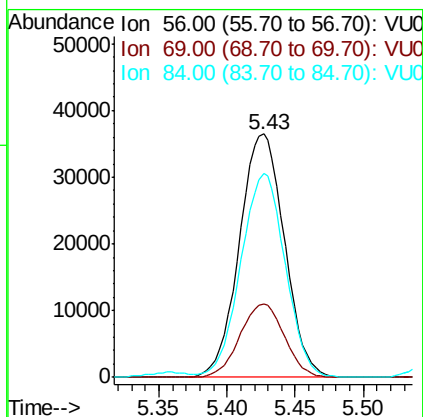
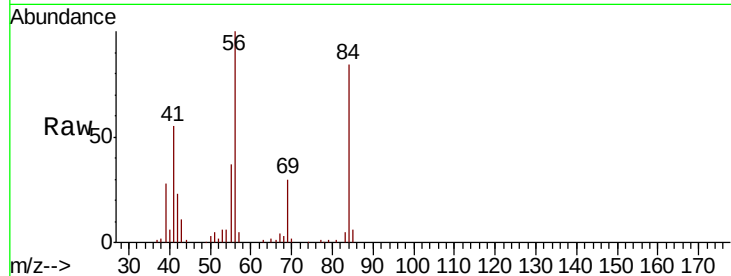




#29  
Cyclohexane  
Concen: 46.620 ug/L  
RT: 5.43 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

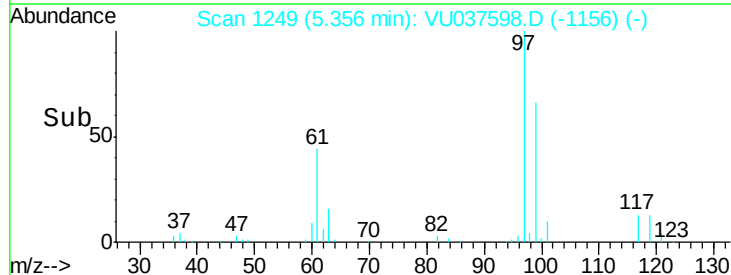
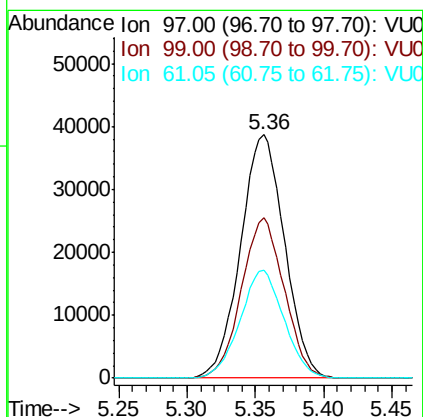
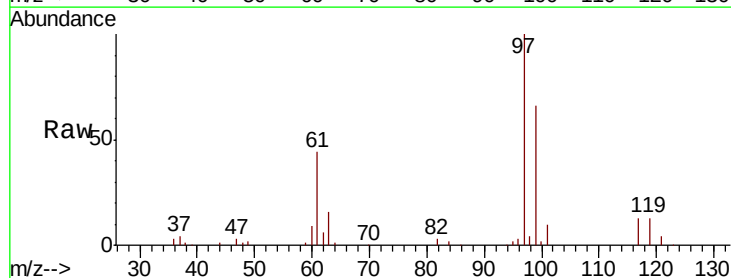
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB37

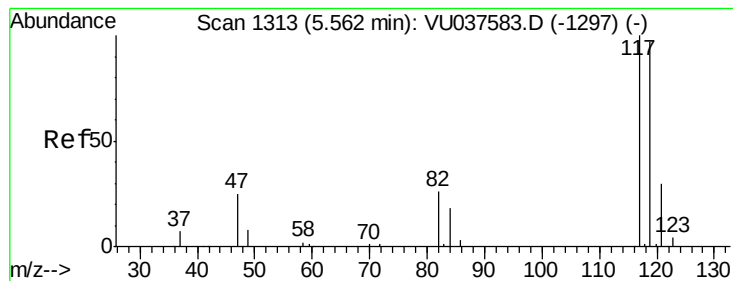
| Tot Ion | 56    | Resp  | 83639 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 56      | 100   |       |       |
| 69      | 29.8  | 23.8  | 35.6  |
| 84      | 82.7  | 65.4  | 98.0  |



#30  
1,1,1-Trichloroethane  
Concen: 47.786 ug/L  
RT: 5.36 min Scan# 1249  
Delta R.T. -0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

| Tgt Ion | 97    | Resp  | 86714 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 97      | 100   |       |       |
| 99      | 63.8  | 50.6  | 75.8  |
| 61      | 44.1  | 35.8  | 53.8  |





#31

Carbon tetrachloride

Concen: 46.682 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampleId :

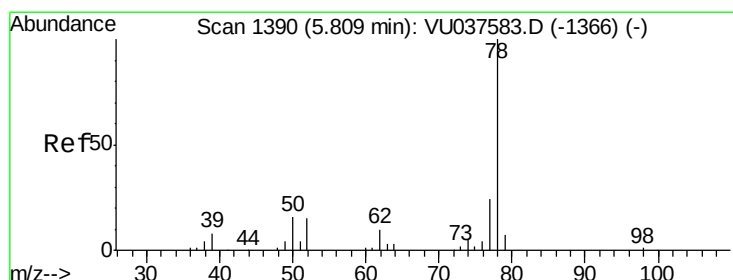
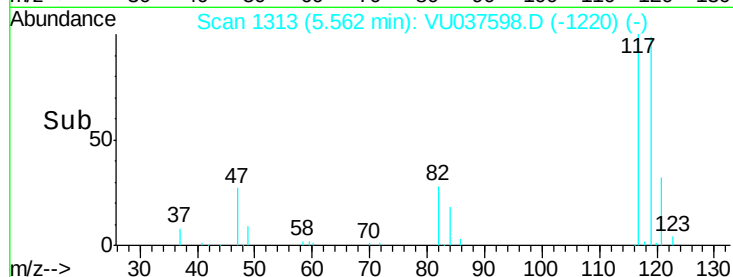
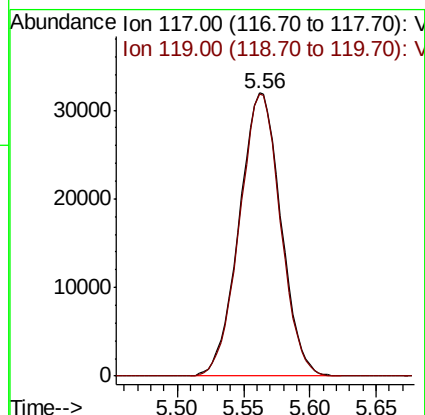
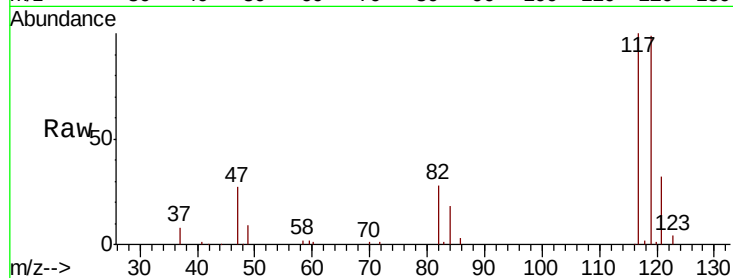
BFB37

Tot Ion:117 Resp: 69720

Ion Ratio Lower Upper

117 100

119 97.5 77.8 116.8



#33

Benzene

Concen: 47.428 ug/L

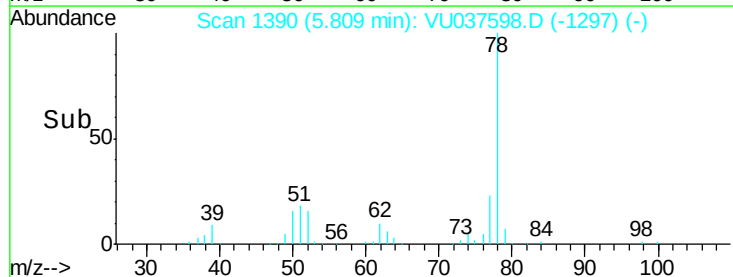
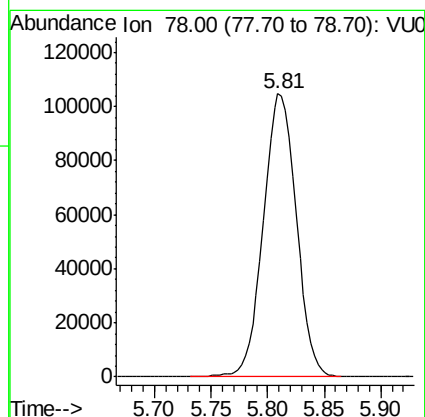
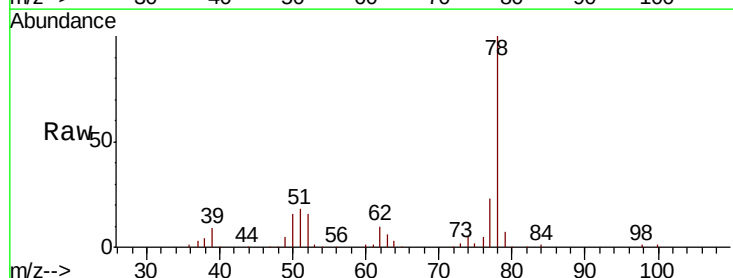
RT: 5.81 min Scan# 1390

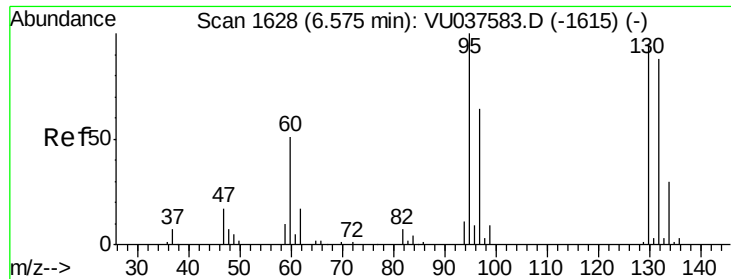
Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Tgt Ion: 78 Resp: 212737

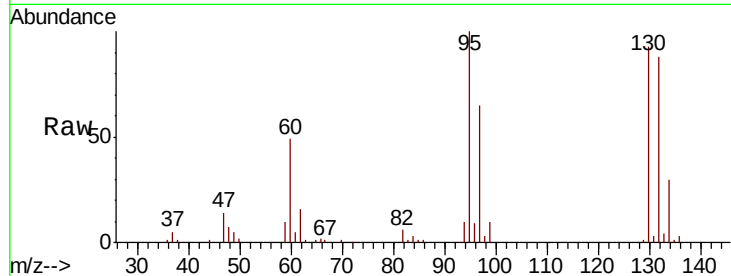




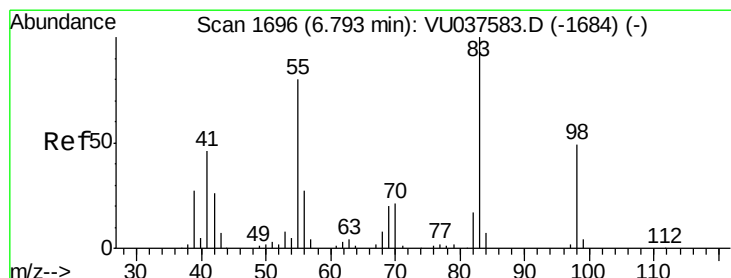
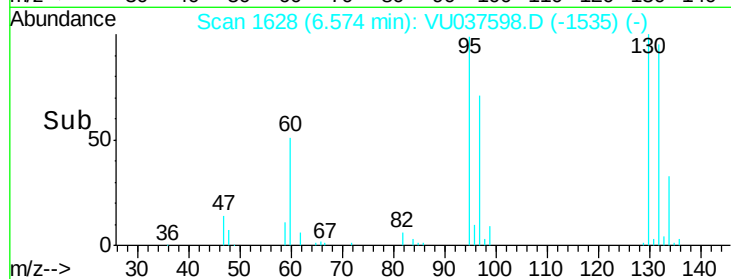
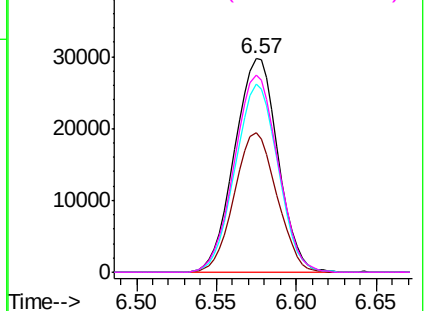
#34  
 Trichloroethene  
 Concen: 46.942 ug/L  
 RT: 6.57 min Scan# 1628  
 Delta R.T. -0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB37

Tot Ion: 95 Resp: 55056  
 Ion Ratio Lower Upper  
 95 100  
 97 65.5 45.2 84.0  
 132 88.0 63.7 118.3  
 130 92.5 64.5 119.7

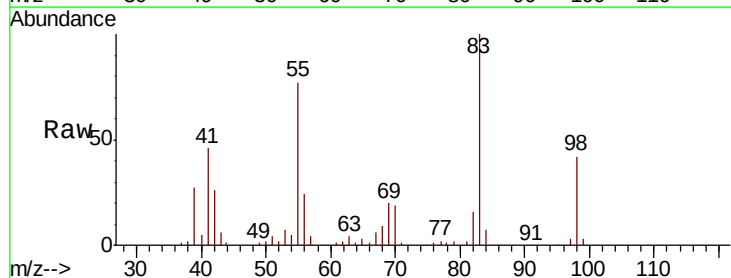


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

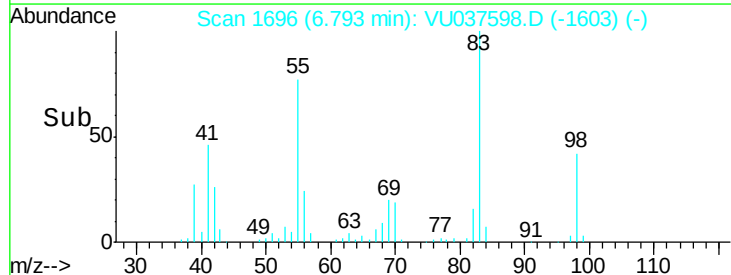
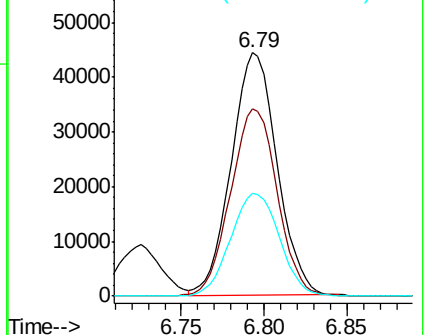


#35  
 Methylcyclohexane  
 Concen: 46.970 ug/L  
 RT: 6.79 min Scan# 1696  
 Delta R.T. -0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

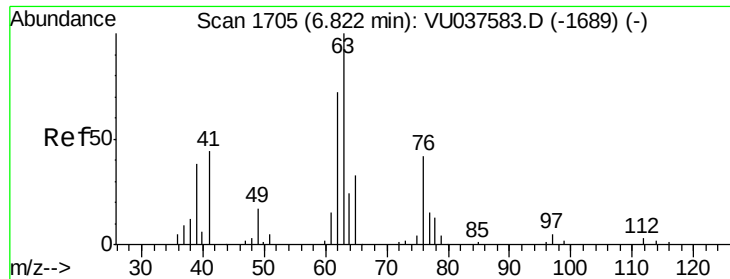
Tgt Ion: 83 Resp: 85118  
 Ion Ratio Lower Upper  
 83 100  
 55 78.7 61.1 91.7  
 98 45.2 35.3 52.9



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



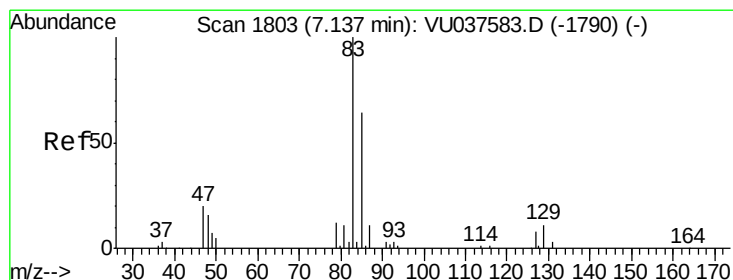
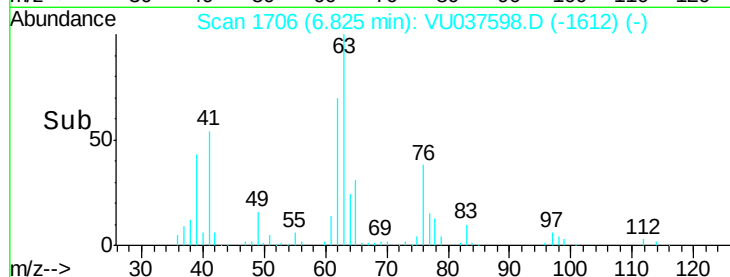
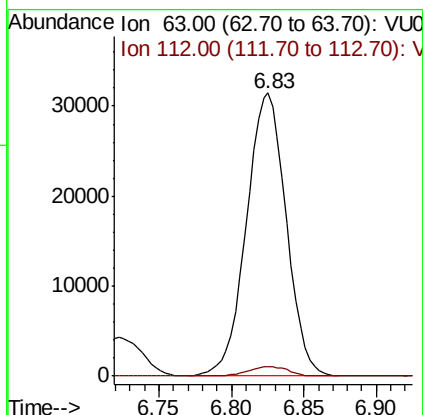
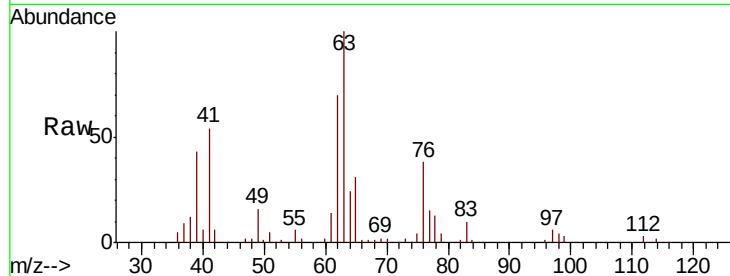




#37  
 1,2-Dichloropropane  
 Concen: 47.006 ug/L  
 RT: 6.83 min Scan# 1706  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

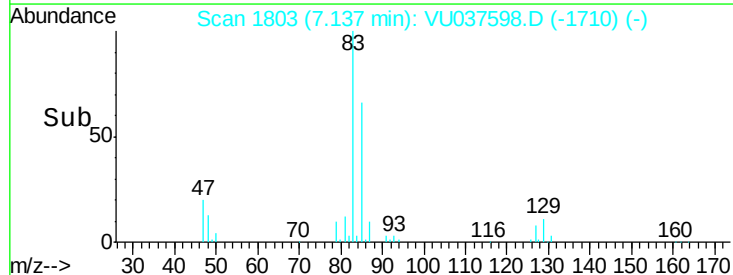
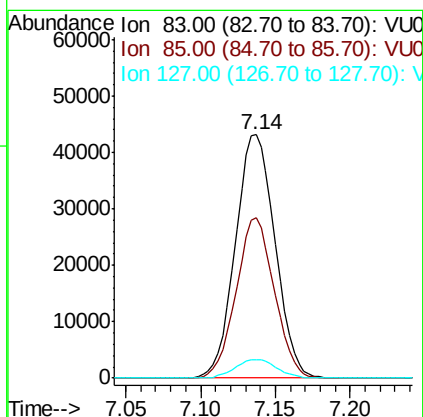
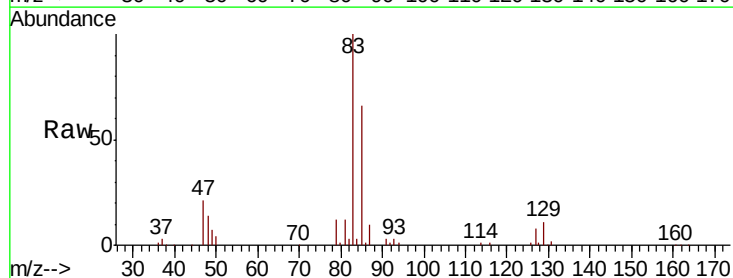
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB37

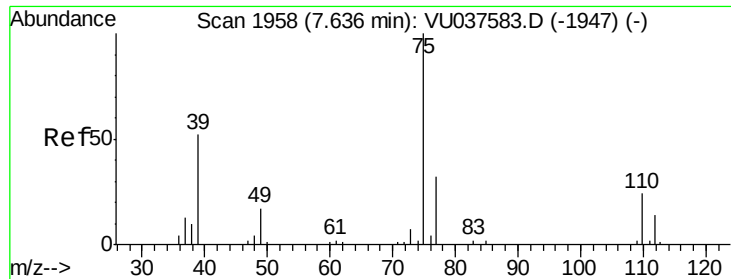
Tot Ion: 63 Resp: 60074  
 Ion Ratio Lower Upper  
 63 100  
 112 3.4 3.1 4.7



#38  
 Bromodichloromethane  
 Concen: 47.913 ug/L  
 RT: 7.14 min Scan# 1803  
 Delta R.T. -0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

Tgt Ion: 83 Resp: 79641  
 Ion Ratio Lower Upper  
 83 100  
 85 66.0 45.2 84.0  
 127 8.8 7.0 10.4

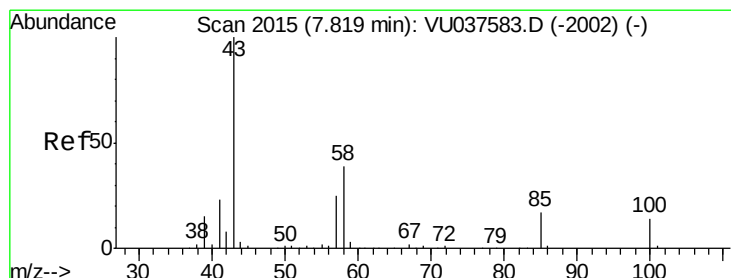
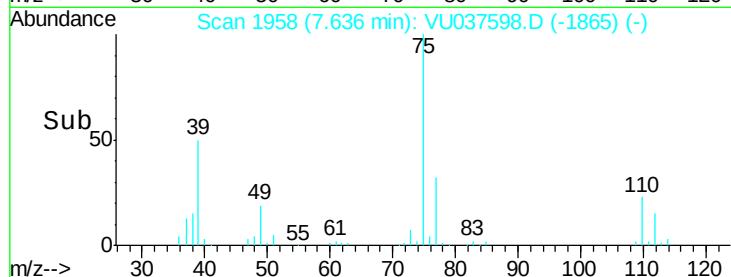
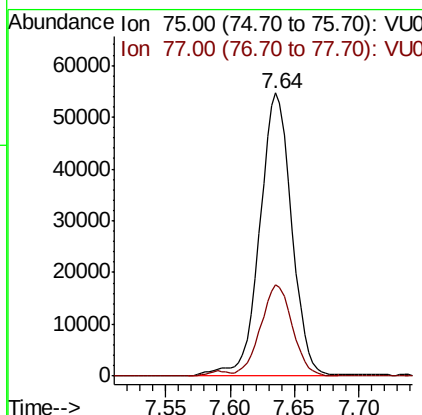
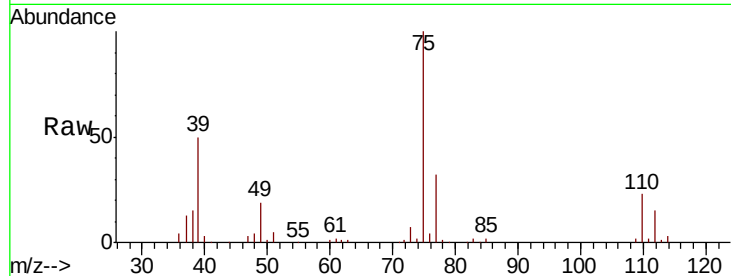




#39  
 cis-1,3-Dichloropropene  
 Concen: 47.464 ug/L  
 RT: 7.64 min Scan# 1958  
 Delta R.T. -0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

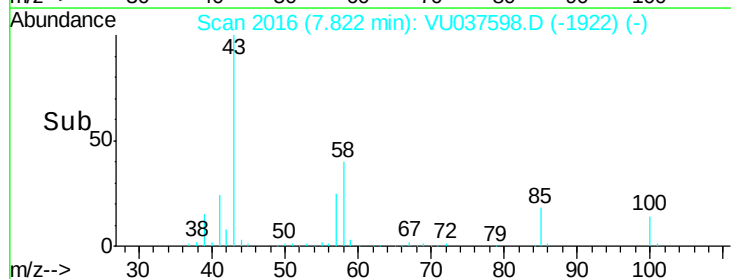
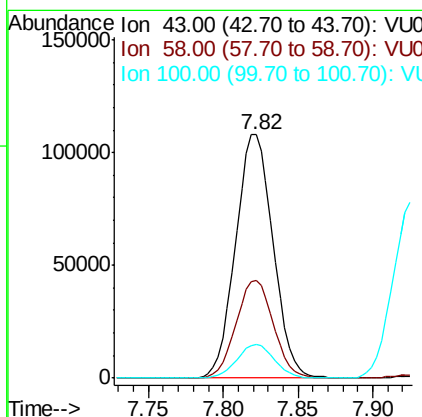
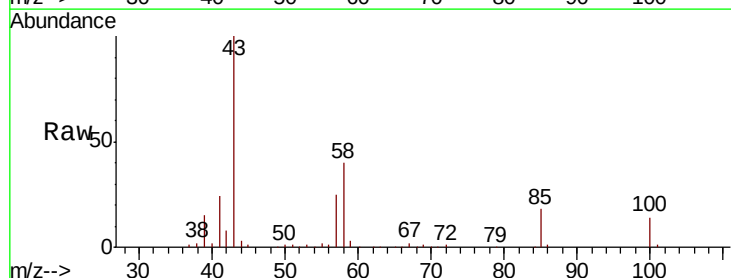
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BFB37

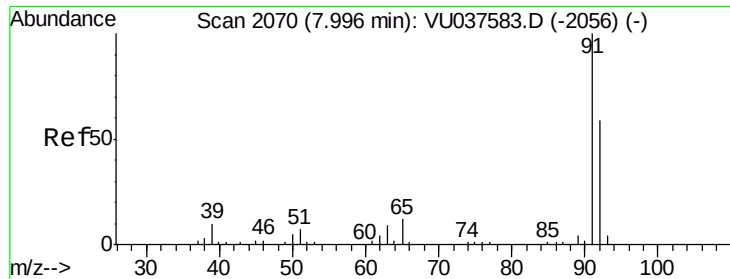
Tot Ion: 75 Resp: 94744  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 22.5 41.7



#40  
 4-Methyl-2-pentanone  
 Concen: 90.886 ug/L  
 RT: 7.82 min Scan# 2016  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

Tgt Ion: 43 Resp: 188485  
 Ion Ratio Lower Upper  
 43 100  
 58 40.0 31.4 47.0  
 100 13.7 11.0 16.4





#42

Toluene

Concen: 46.809 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampleId :

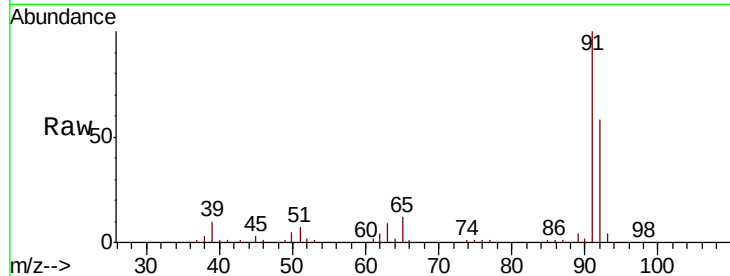
BFB37

Tot Ion: 91 Resp: 227209

Ion Ratio Lower Upper

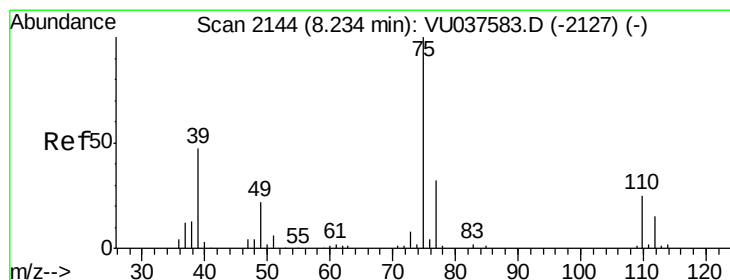
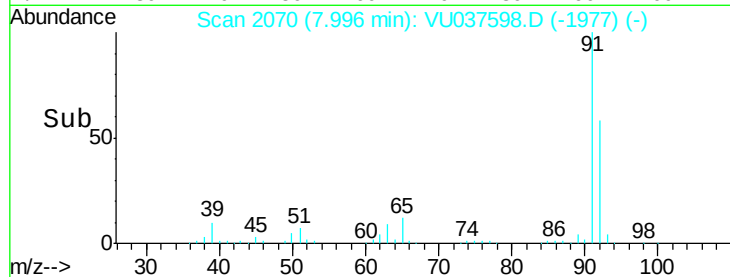
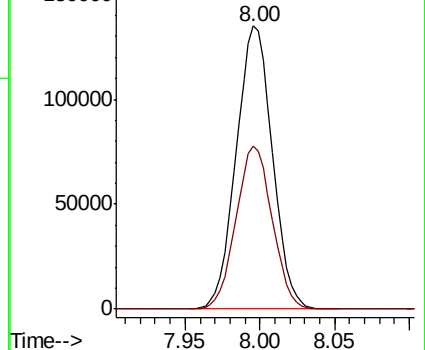
91 100

92 57.7 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU037598.D (-1977) (-)

Ion 92.00 (91.70 to 92.70): VU037598.D (-1977) (-)



#44

trans-1,3-Dichloropropene

Concen: 48.429 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037598.D

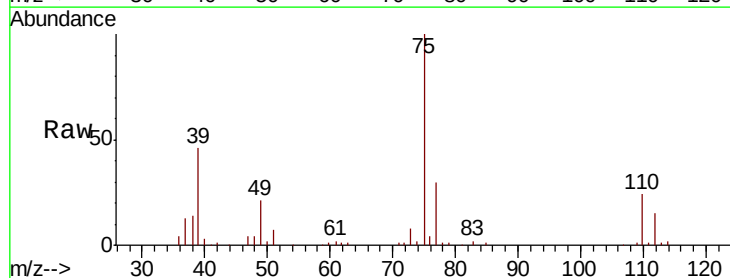
Acq: 07 Apr 2020 09:41

Tgt Ion: 75 Resp: 95199

Ion Ratio Lower Upper

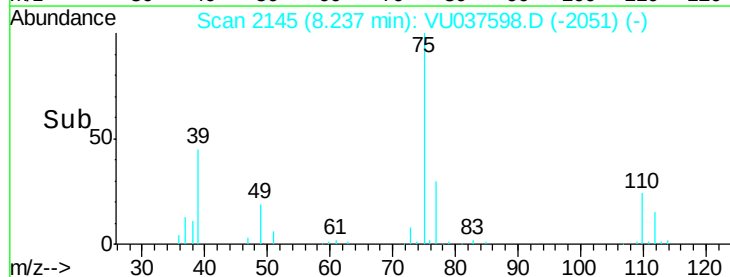
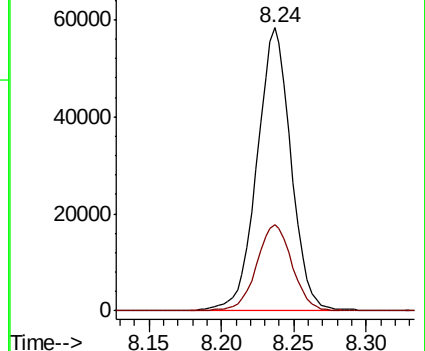
75 100

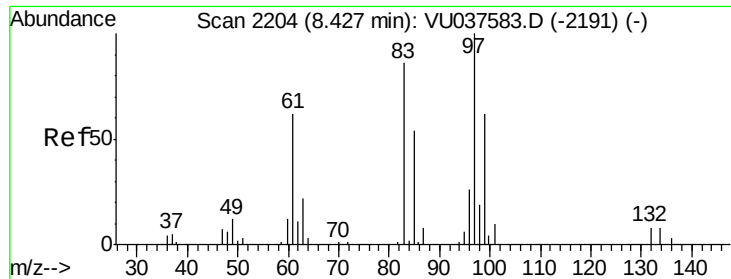
77 30.3 23.4 43.6



Abundance Ion 75.00 (74.70 to 75.70): VU037598.D (-2051) (-)

Ion 77.00 (76.70 to 77.70): VU037598.D (-2051) (-)

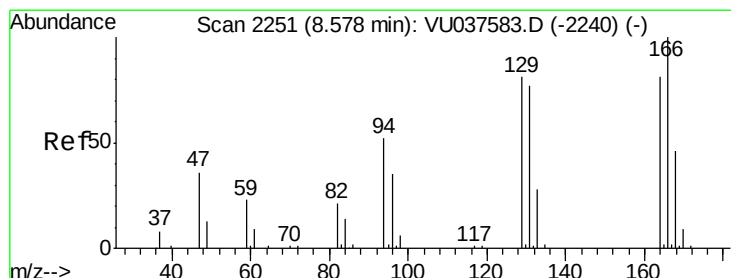
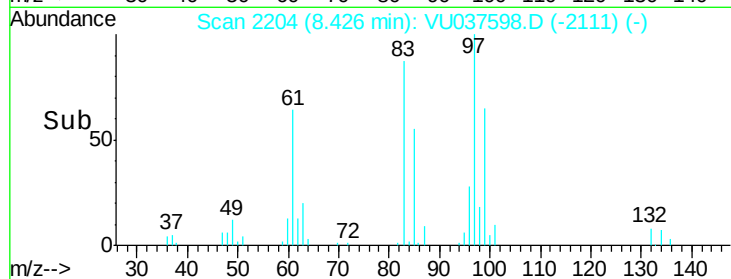
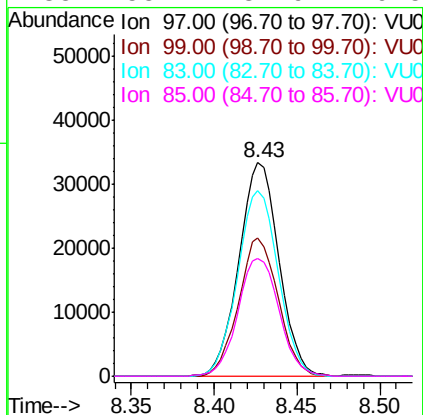
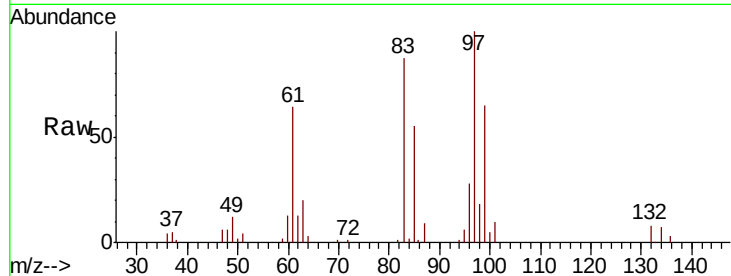




#45  
 1,1,2-Trichloroethane  
 Concen: 47.946 ug/L  
 RT: 8.43 min Scan# 2204  
 Delta R.T. -0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

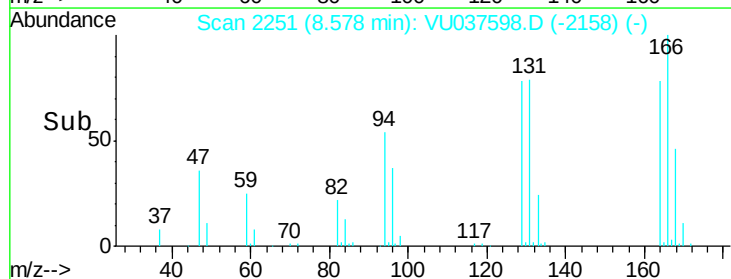
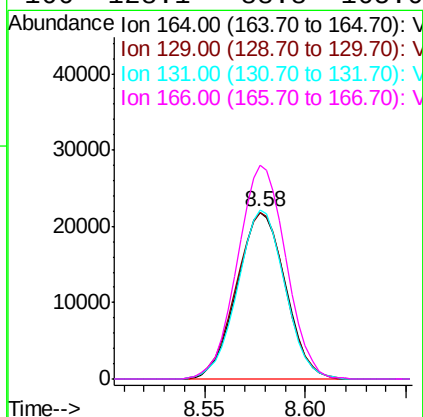
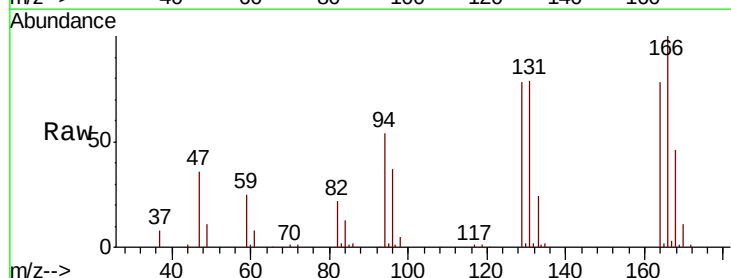
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BFB37

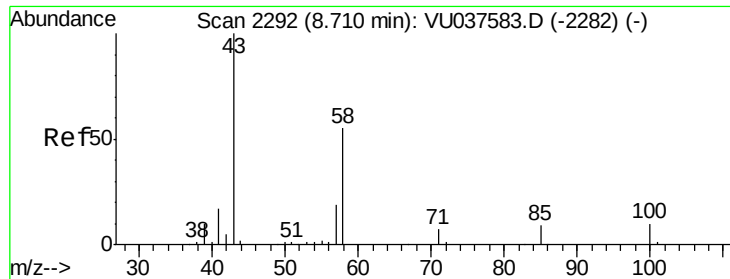
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 55945 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.8  | 43.3  | 80.5  |
| 83       | 87.0  | 60.8  | 112.8 |
| 85       | 55.1  | 37.9  | 70.5  |



#46  
 Tetrachloroethene  
 Concen: 46.751 ug/L  
 RT: 8.58 min Scan# 2251  
 Delta R.T. -0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 36816 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 99.5  | 76.5  | 142.1 |
| 131      | 101.4 | 71.7  | 133.1 |
| 166      | 128.1 | 88.8  | 165.0 |

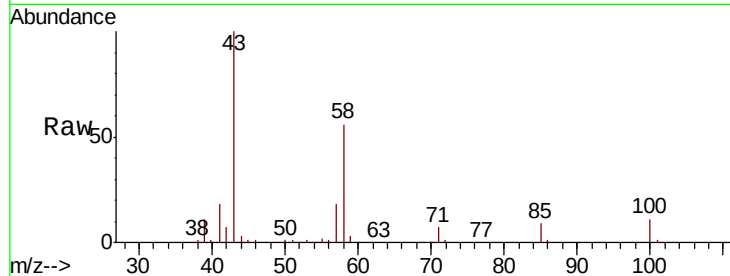




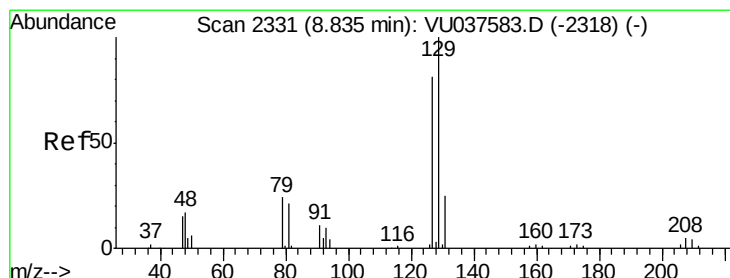
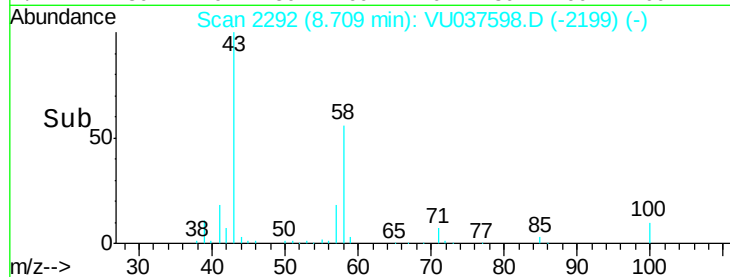
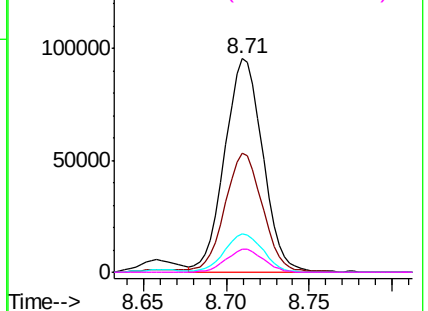
#48  
2-Hexanone  
Concen: 94.436 ug/L  
RT: 8.71 min Scan# 2292  
Delta R.T. -0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB37

Tot Ion: 43 Resp: 152303  
Ion Ratio Lower Upper  
43 100  
58 55.2 44.4 66.6  
57 18.2 15.1 22.7  
100 10.6 8.7 13.1

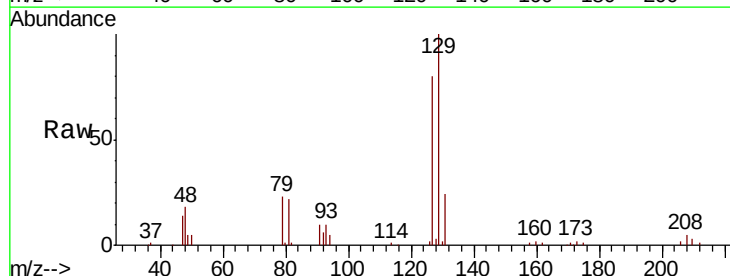


Abundance Ion 43.00 (42.70 to 43.70): VU037598.D (-2199) (-)  
Ion 58.00 (57.70 to 58.70): VU037598.D (-2199) (-)  
Ion 57.00 (56.70 to 57.70): VU037598.D (-2199) (-)  
Ion 100.00 (99.70 to 100.70): VU037598.D (-2199) (-)

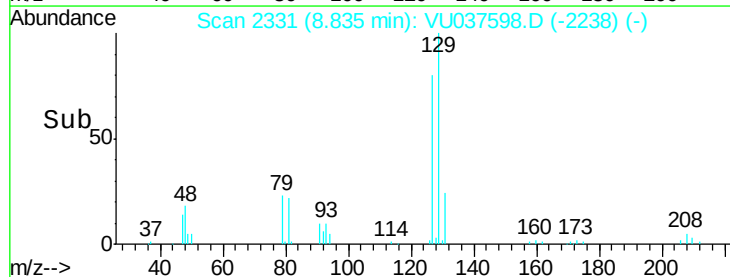
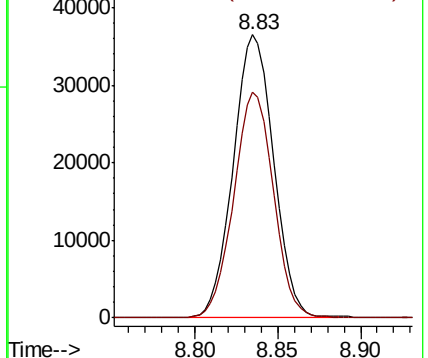


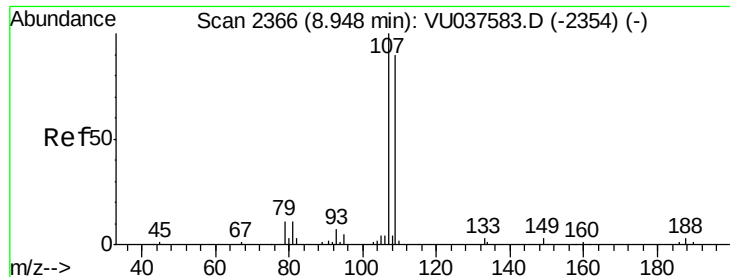
#49  
Dibromochloromethane  
Concen: 47.649 ug/L  
RT: 8.83 min Scan# 2331  
Delta R.T. -0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

Tgt Ion: 129 Resp: 62014  
Ion Ratio Lower Upper  
129 100  
127 79.8 55.0 102.2



Abundance Ion 129.00 (128.70 to 129.70): VU037598.D (-2238) (-)  
Ion 127.00 (126.70 to 127.70): VU037598.D (-2238) (-)

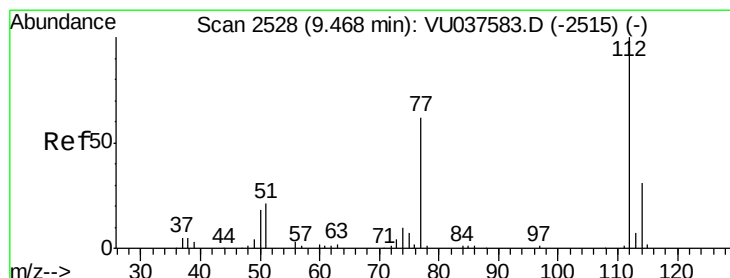
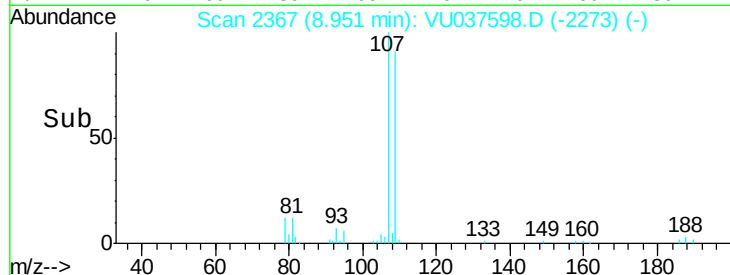
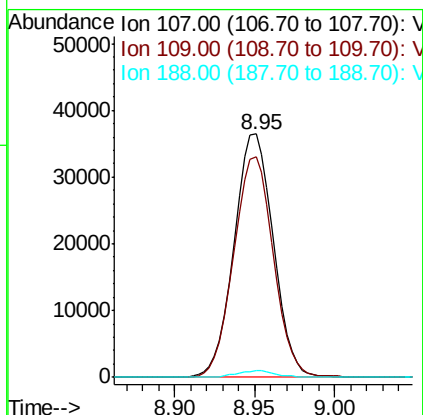
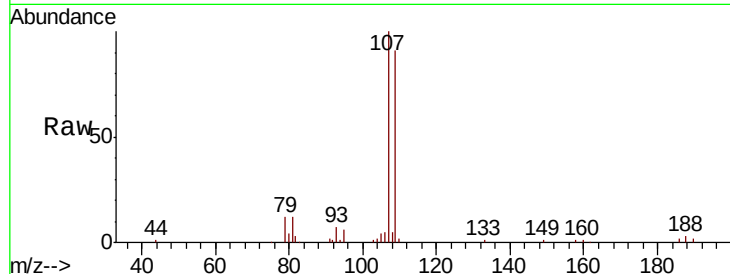




#50  
 1,2-Dibromoethane  
 Concen: 47.499 ug/L  
 RT: 8.95 min Scan# 2367  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

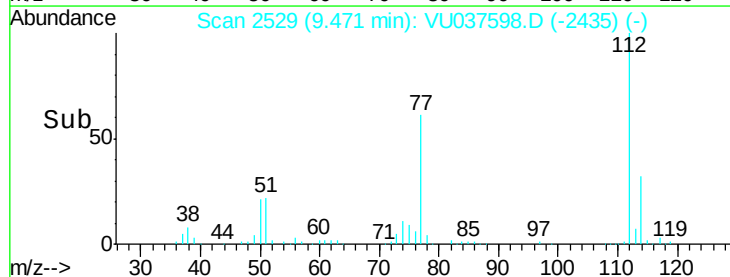
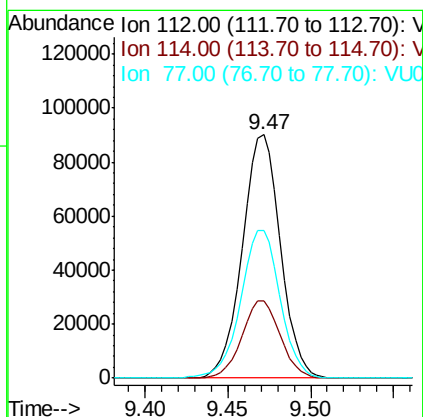
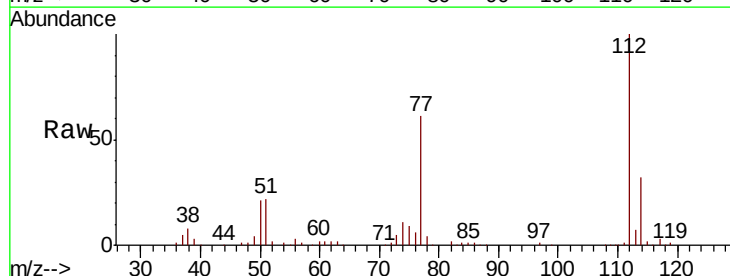
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB37

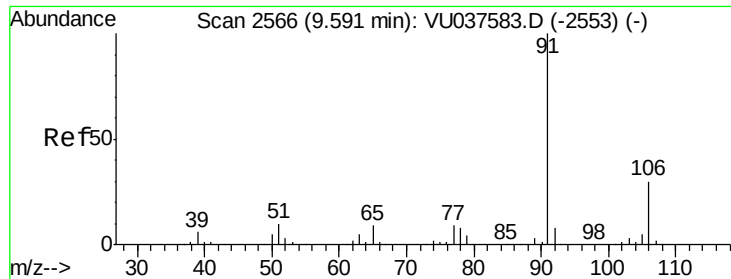
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 90.7  | 64.1  | 119.1 |
| 188     | 2.8   | 2.3   | 3.5   |



#51  
 Chlorobenzene  
 Concen: 47.906 ug/L  
 RT: 9.47 min Scan# 2529  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.7  | 21.0  | 39.0  |
| 77      | 60.9  | 50.2  | 75.4  |





#52

Ethylbenzene

Concen: 47.423 ug/L

RT: 9.59 min Scan# 2567

Delta R.T. 0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampleId :

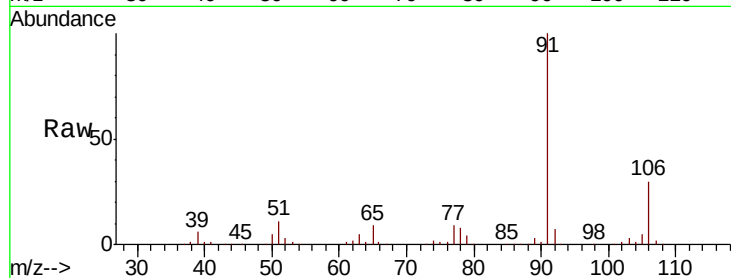
BFB37

Tot Ion: 91 Resp: 260312

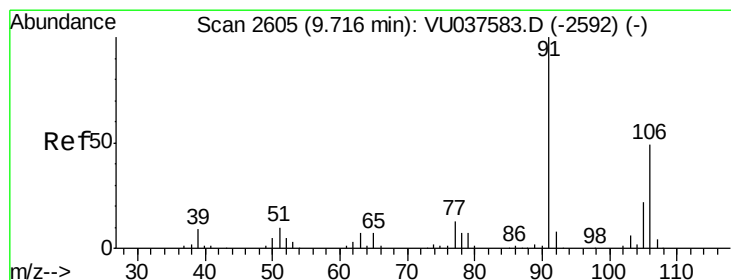
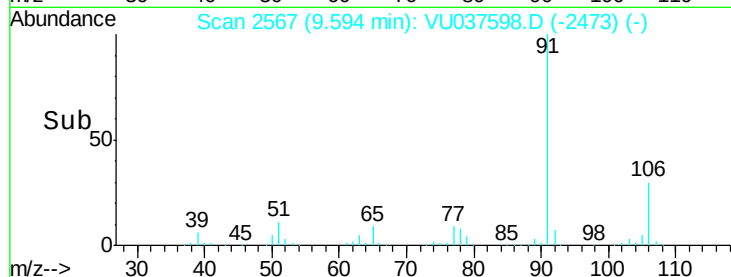
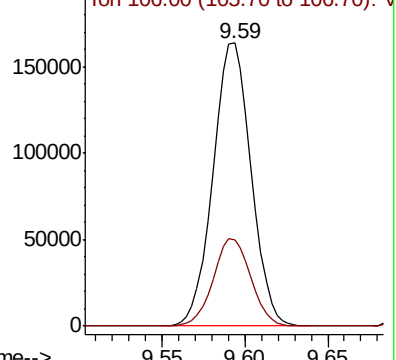
Ion Ratio Lower Upper

91 100

106 30.4 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VU037583.D (-2553) (-)



#53

m,p-Xylene

Concen: 47.986 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VU037598.D

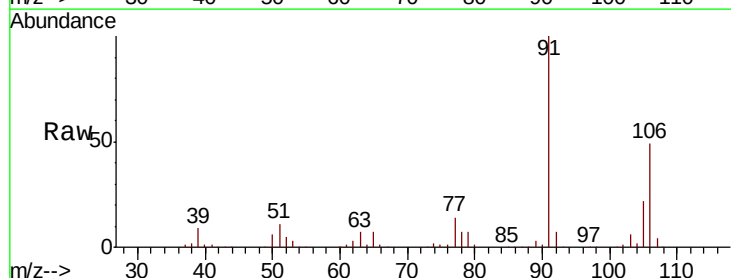
Acq: 07 Apr 2020 09:41

Tgt Ion: 106 Resp: 98251

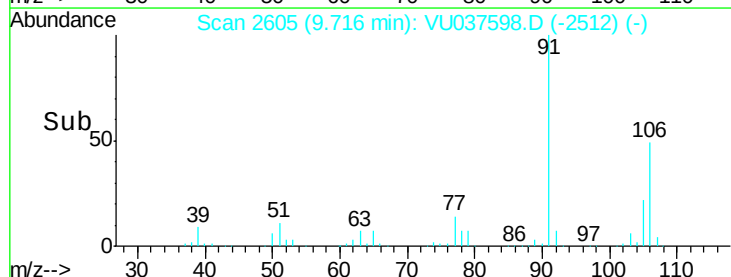
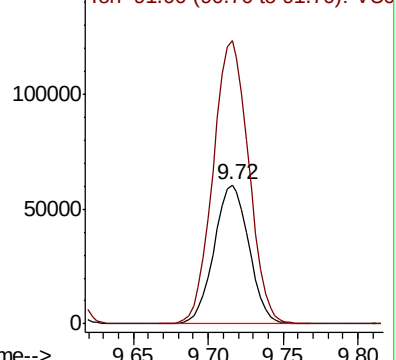
Ion Ratio Lower Upper

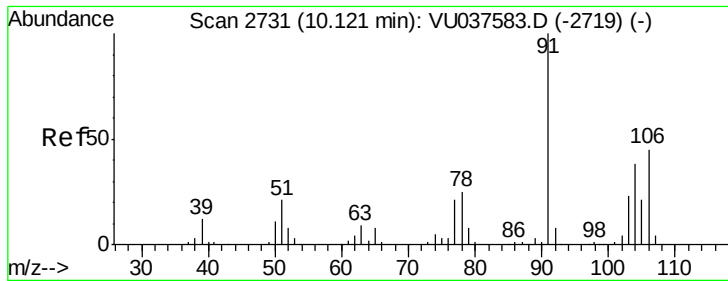
106 100

91 203.7 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VU037583.D (-2592) (-)

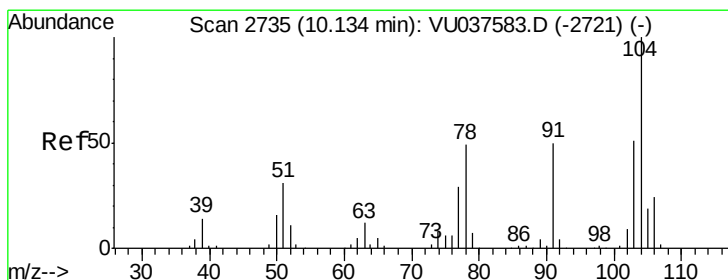
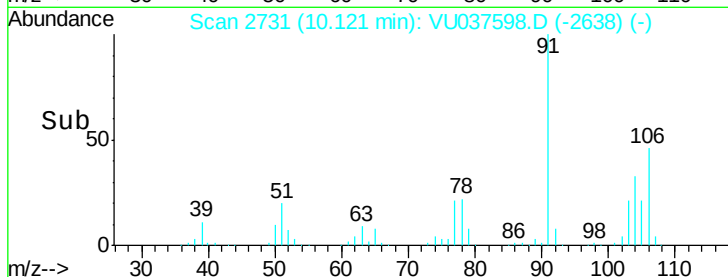
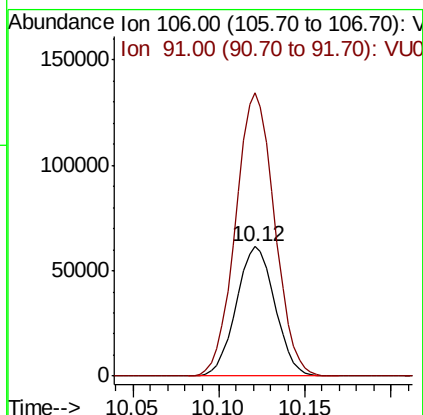
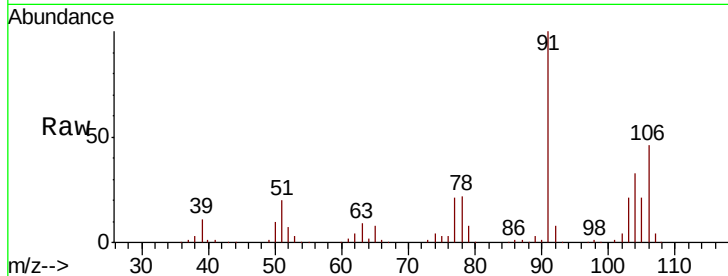




#54  
o-xylene  
Concen: 48.858 ug/L  
RT: 10.12 min Scan# 2731  
Delta R.T. -0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

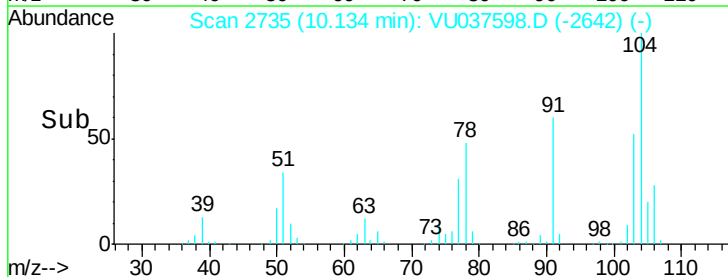
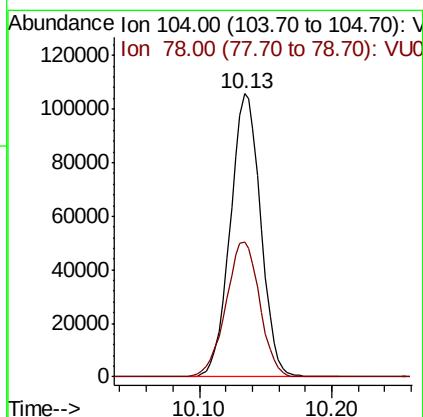
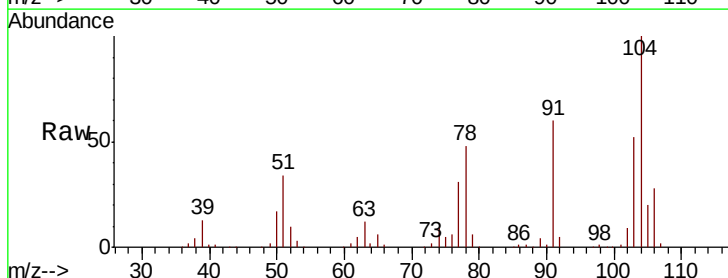
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB37

Tot Ion:106 Resp: 96417  
Ion Ratio Lower Upper  
106 100  
91 218.8 152.6 283.4

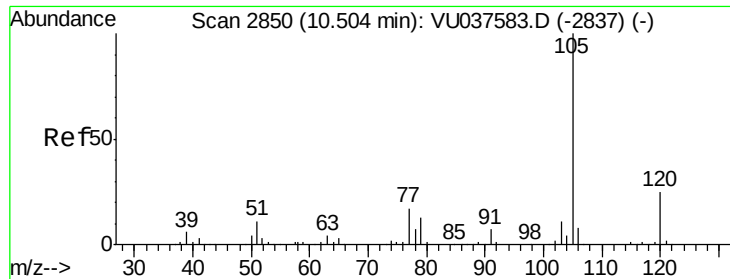


#55  
Styrene  
Concen: 48.091 ug/L  
RT: 10.13 min Scan# 2735  
Delta R.T. -0.00 min  
Lab File: VU037598.D  
Acq: 07 Apr 2020 09:41

Tgt Ion:104 Resp: 168044  
Ion Ratio Lower Upper  
104 100  
78 47.8 34.9 64.9







#56

Isopropylbenzene

Concen: 48.684 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampleId :

BFB37

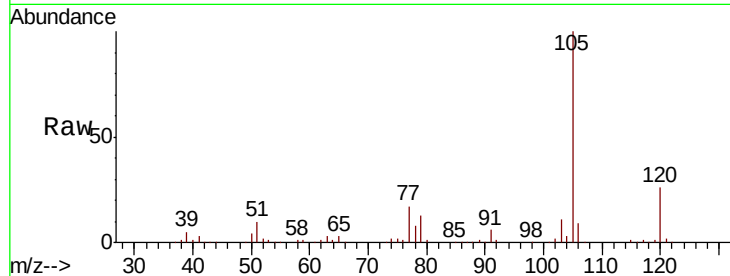
Tot Ion:105 Resp: 260488

Ion Ratio Lower Upper

105 100

120 26.1 20.7 31.1

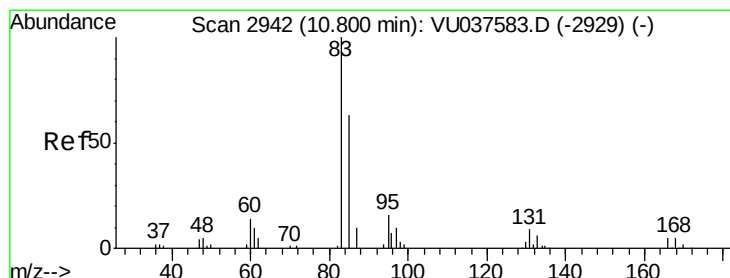
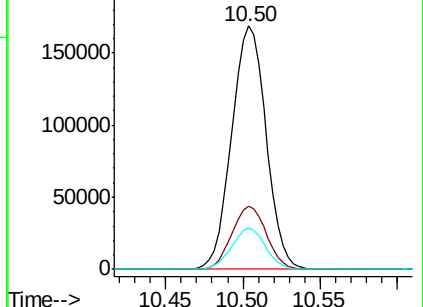
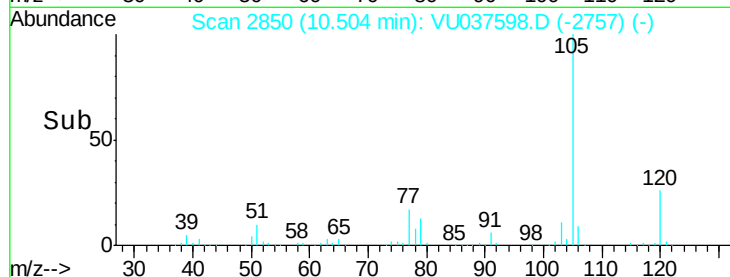
77 16.6 13.4 20.0



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: 47.742 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

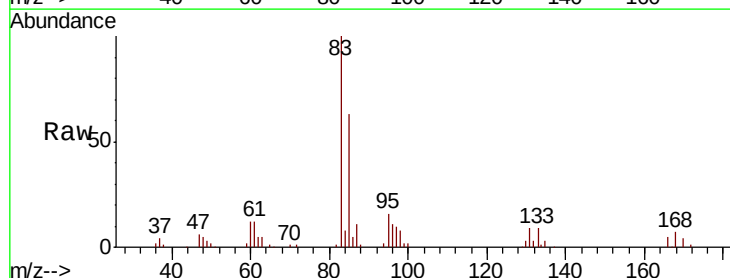
Tgt Ion: 83 Resp: 100427

Ion Ratio Lower Upper

83 100

85 63.4 44.2 82.2

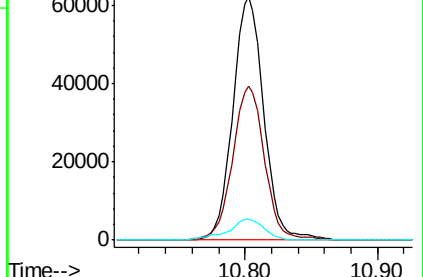
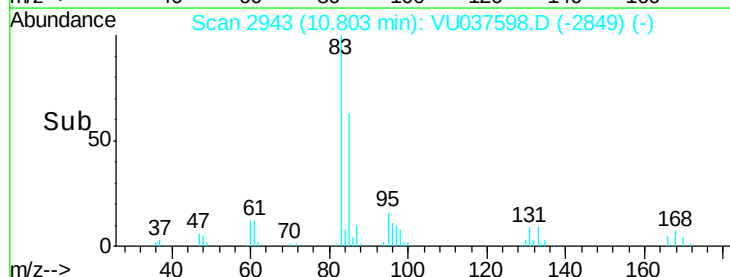
131 8.8 7.2 10.8

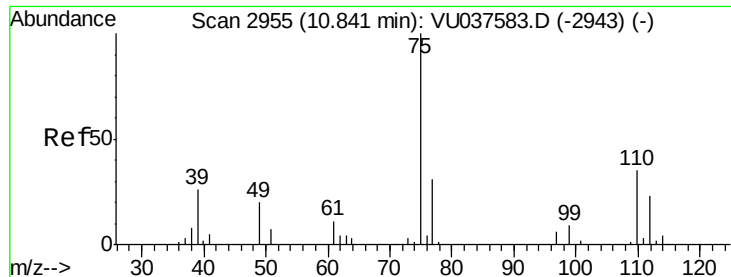


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

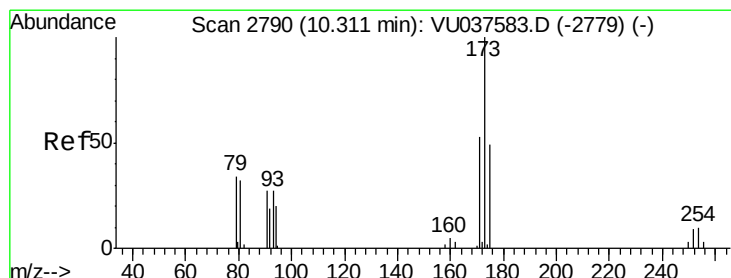
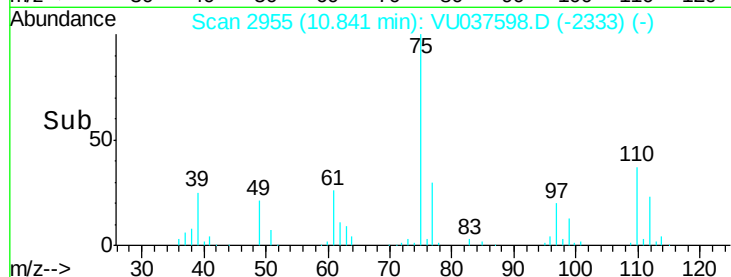
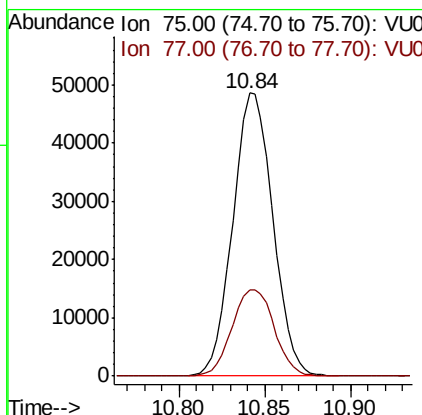
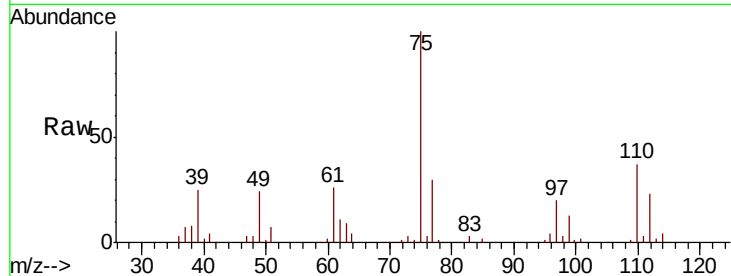




#59  
 1,2,3-Trichloropropane  
 Concen: 47.880 ug/L  
 RT: 10.84 min Scan# 2955  
 Delta R.T. -0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

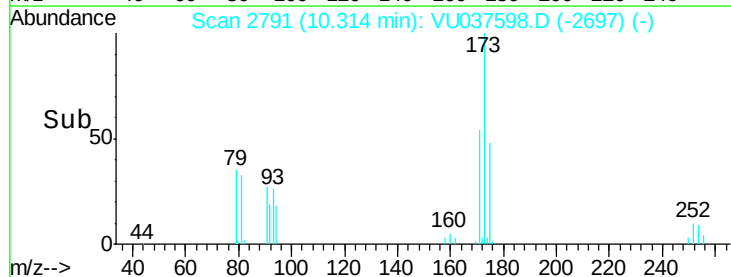
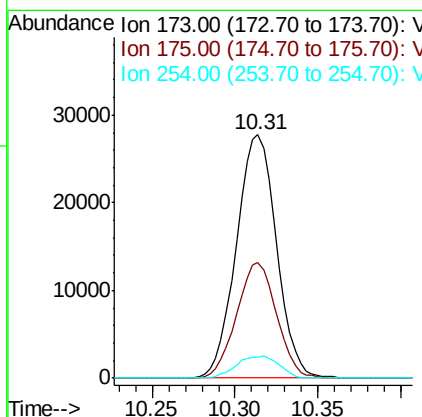
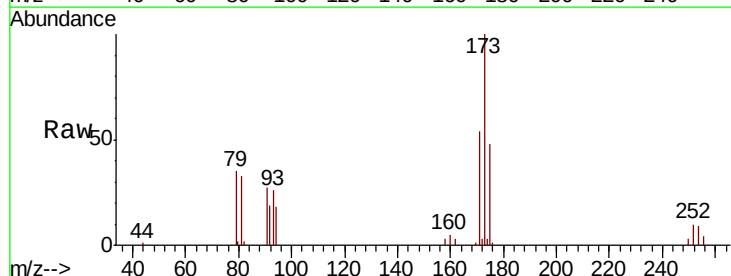
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB37

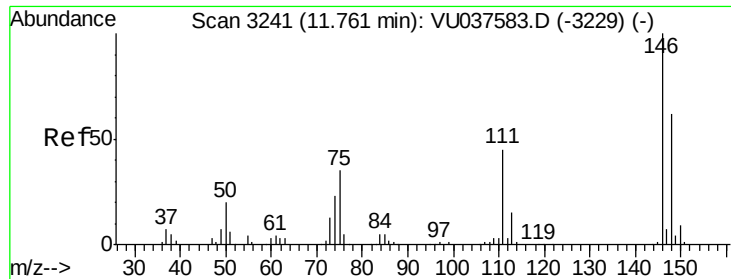
Tot Ion: 75 Resp: 78665  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 25.5 38.3



#61  
 Bromoform  
 Concen: 49.122 ug/L  
 RT: 10.31 min Scan# 2791  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

Tgt Ion:173 Resp: 46695  
 Ion Ratio Lower Upper  
 173 100  
 175 47.5 38.6 58.0  
 254 9.5 7.4 11.2

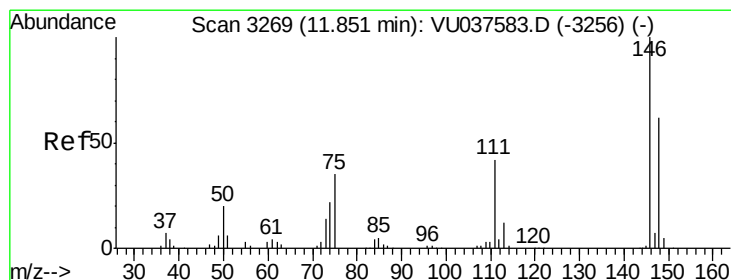
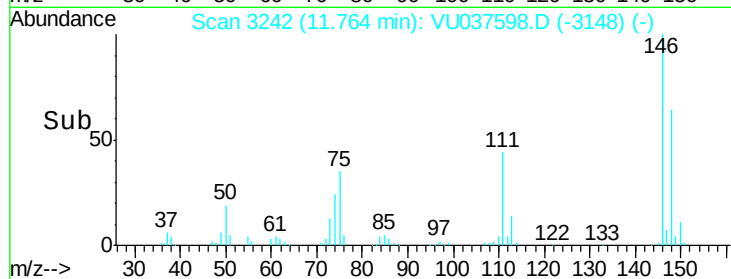
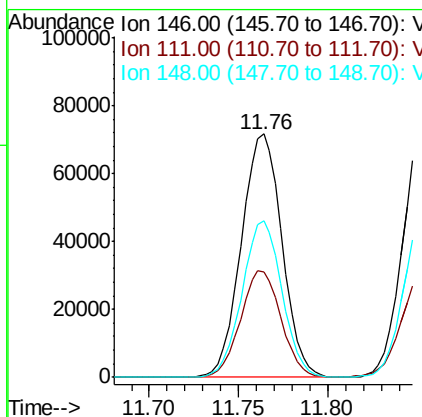
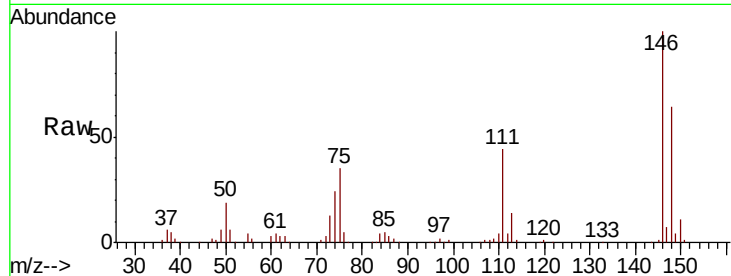




#62  
 1,3-Dichlorobenzene  
 Concen: 47.420 ug/L  
 RT: 11.76 min Scan# 3242  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

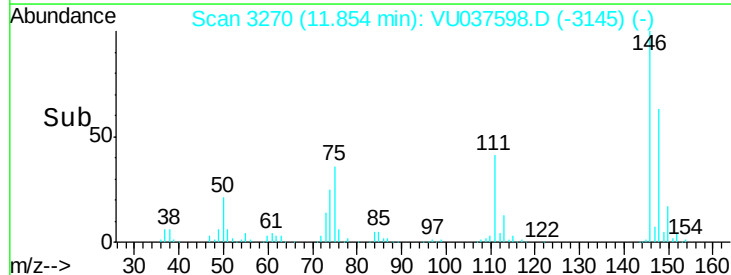
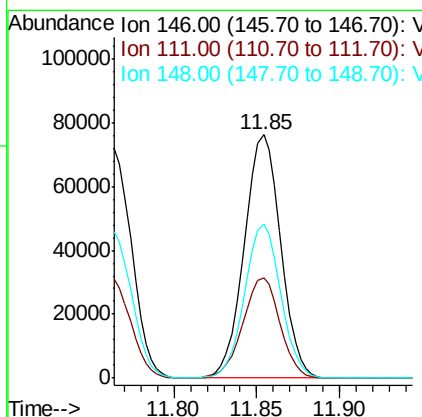
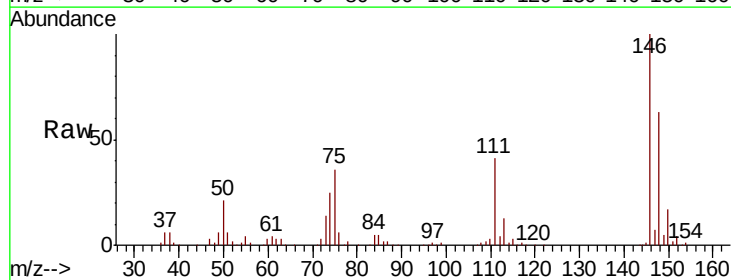
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB37

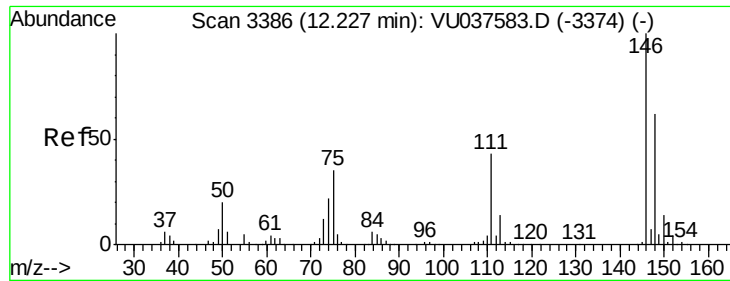
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.5  | 31.1  | 57.7  |
| 148     | 64.1  | 44.4  | 82.5  |



#63  
 1,4-Dichlorobenzene  
 Concen: 48.038 ug/L  
 RT: 11.85 min Scan# 3270  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.4  | 30.1  | 55.9  |
| 148     | 63.2  | 44.7  | 82.9  |

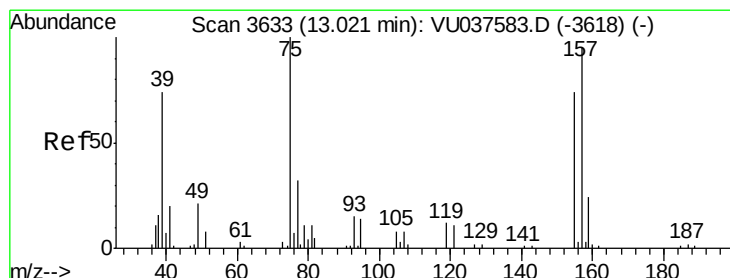
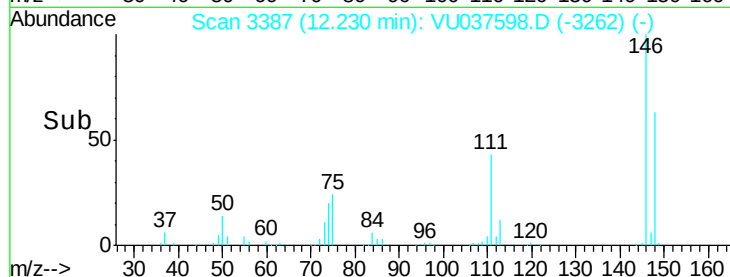
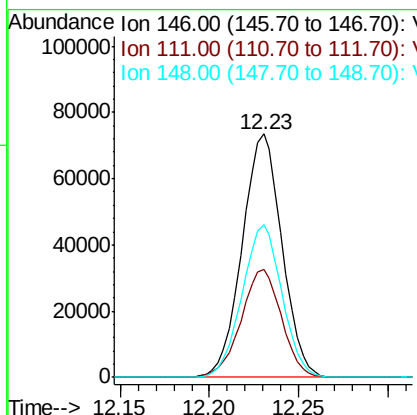
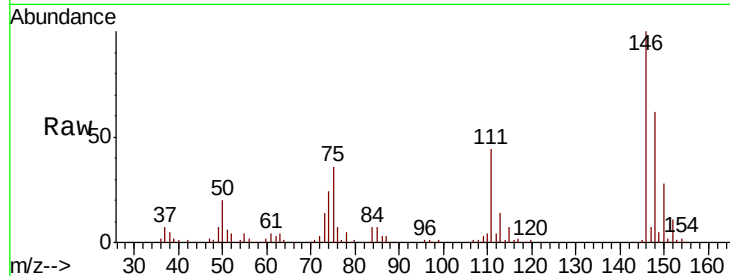




#65  
 1,2-Dichlorobenzene  
 Concen: 48.298 ug/L  
 RT: 12.23 min Scan# 3387  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

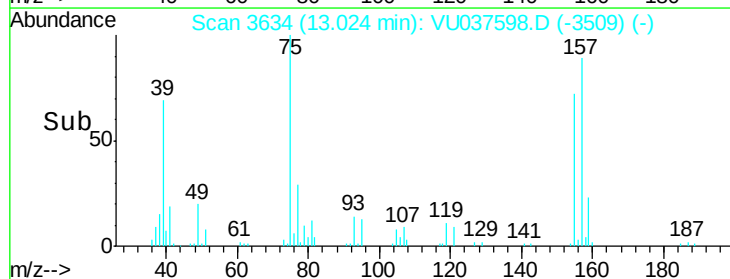
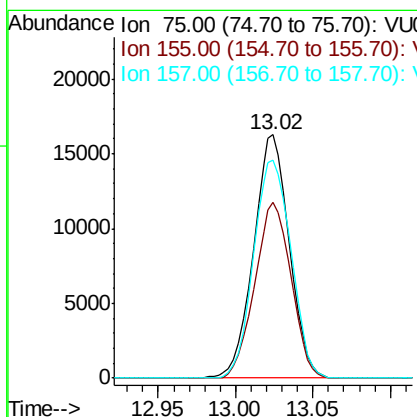
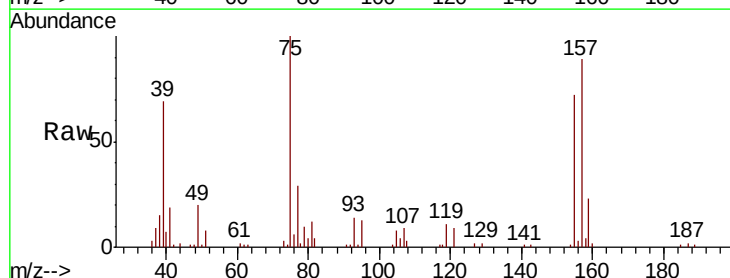
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB37

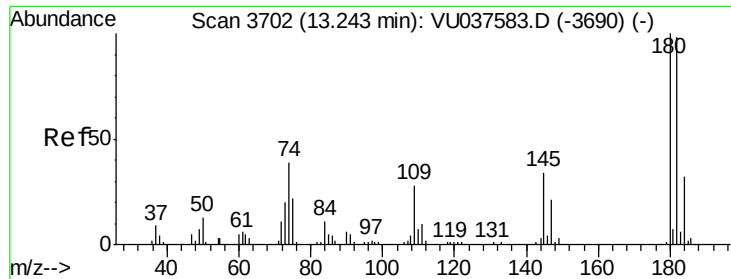
Tot Ion:146 Resp: 114824  
 Ion Ratio Lower Upper  
 146 100  
 111 44.1 35.6 53.4  
 148 62.5 51.0 76.6



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 45.778 ug/L  
 RT: 13.02 min Scan# 3634  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

Tgt Ion: 75 Resp: 26105  
 Ion Ratio Lower Upper  
 75 100  
 155 72.0 56.6 85.0  
 157 89.4 72.4 108.6

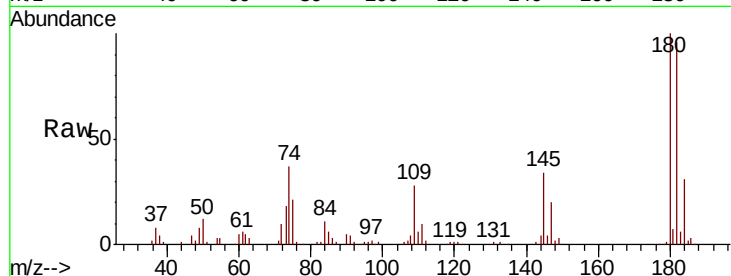




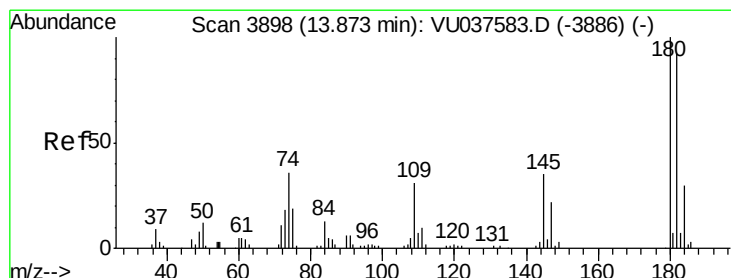
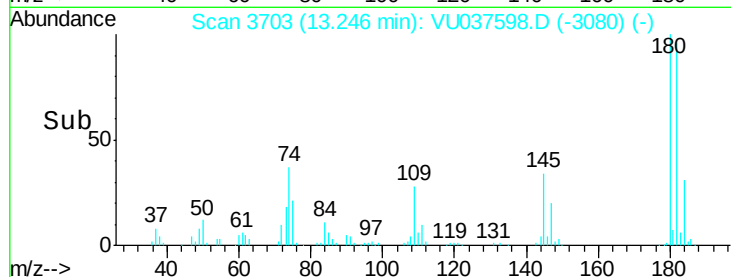
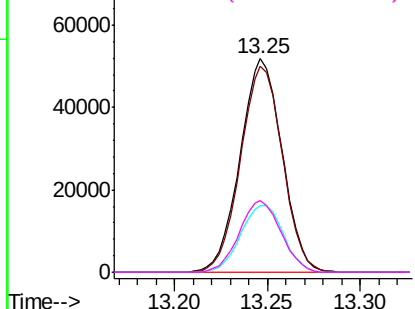
#67  
 1,3,5-Trichlorobenzene  
 Concen: 48.973 ug/L  
 RT: 13.25 min Scan# 3703  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB37

Tot Ion:180 Resp: 81617  
 Ion Ratio Lower Upper  
 180 100  
 182 96.5 74.9 112.3  
 184 32.0 23.6 35.4  
 145 33.4 25.7 38.5

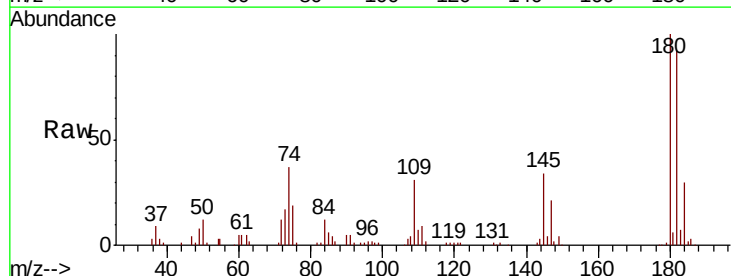


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

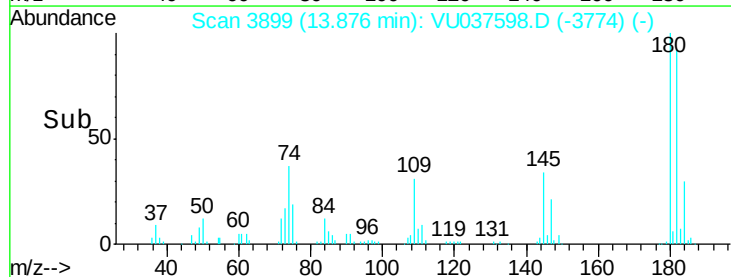
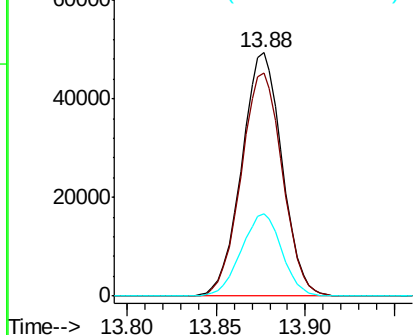


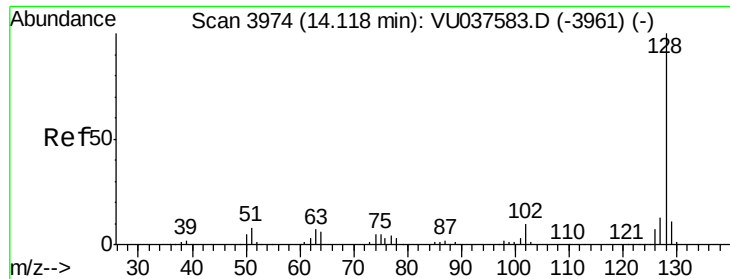
#68  
 1,2,4-trichlorobenzene  
 Concen: 49.034 ug/L  
 RT: 13.88 min Scan# 3899  
 Delta R.T. 0.00 min  
 Lab File: VU037598.D  
 Acq: 07 Apr 2020 09:41

Tgt Ion:180 Resp: 77903  
 Ion Ratio Lower Upper  
 180 100  
 182 93.6 74.4 111.6  
 145 33.8 26.9 40.3



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: 42.262 ug/L

RT: 14.12 min Scan# 3976

Delta R.T. 0.01 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

Instrument :

MSVOA\_U

ClientSampleId :

BFB37

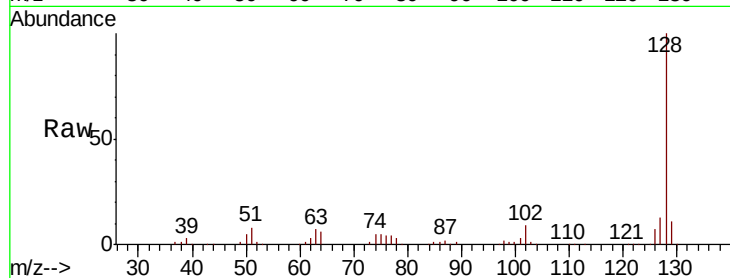
Tot Ion:128 Resp: 284464

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

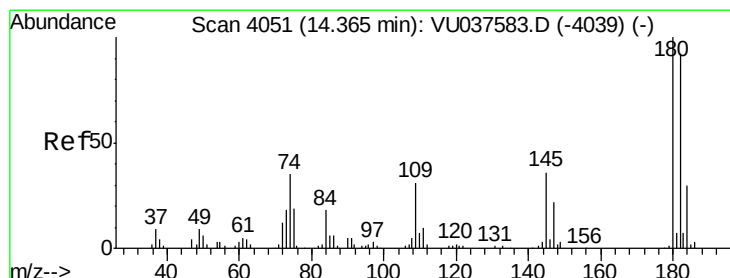
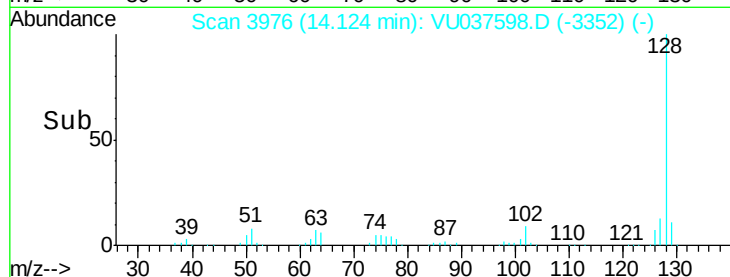
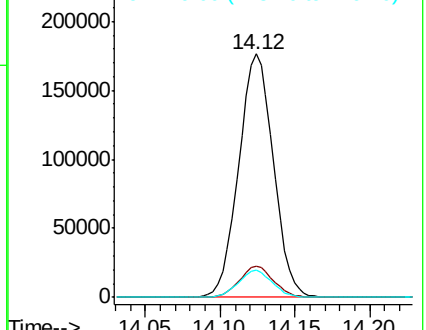
129 10.9 8.5 12.7



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



#70

1,2,3-Trichlorobenzene

Concen: 47.155 ug/L

RT: 14.37 min Scan# 4053

Delta R.T. 0.01 min

Lab File: VU037598.D

Acq: 07 Apr 2020 09:41

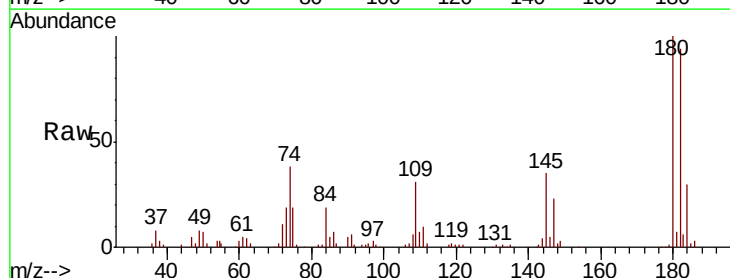
Tgt Ion:180 Resp: 75683

Ion Ratio Lower Upper

180 100

182 94.5 76.0 114.0

145 35.6 29.0 43.6



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

