

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\  
 Data File : VU037803.D  
 Acq On : 18 Apr 2020 04:23  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Apr 18 05:26:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Apr 18 05:19:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 252873   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 244446   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 123285   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 77691    | 4.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 81.20%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 73908    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 149721   | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 88.00%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 326844   | 62.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 124.40% |
| 24) Chloroform-d               | 5.10   | 84    | 159382   | 5.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 104.40% |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 97142    | 5.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 110.60% |
| 32) Benzene-d6                 | 5.76   | 84    | 313001   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 112978   | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 105.20% |
| 41) Toluene-d8                 | 7.92   | 98    | 275467   | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.80%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 45206    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.60%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 284843   | 57.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 115.26% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 95456    | 5.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 112.60% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 110116   | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.20% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.40 | 85  | 113930 | 5.194  | ug/L 99  |
| 3) Chloromethane               | 1.54 | 50  | 101978 | 3.760  | ug/L 100 |
| 5) Vinyl chloride              | 1.62 | 62  | 130522 | 4.898  | ug/L 99  |
| 6) Bromomethane                | 1.87 | 94  | 29088  | 1.901  | ug/L 94  |
| 8) Chloroethane                | 1.95 | 64  | 76092  | 4.864  | ug/L 100 |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 141424 | 4.946  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 81766  | 4.912  | ug/L 97  |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 81058  | 4.645  | ug/L 96  |
| 13) Acetone                    | 2.66 | 43  | 167727 | 48.408 | ug/L 97  |
| 14) Carbon disulfide           | 2.82 | 76  | 288659 | 4.530  | ug/L 99  |
| 15) Methyl Acetate             | 2.98 | 43  | 47281  | 4.908  | ug/L 98  |
| 16) Methylene chloride         | 3.08 | 84  | 94664  | 4.812  | ug/L 94  |
| 17) Methyl tert-butyl Ether    | 3.40 | 73  | 246353 | 4.875  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 88985  | 4.704  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 186995 | 5.110  | ug/L 99  |
| 21) 2-Butanone                 | 4.75 | 43  | 318630 | 50.614 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 100130 | 4.898  | ug/L 94  |

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 Data File : VU037803.D  
 Acq On : 18 Apr 2020 04:23  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Apr 18 05:26:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Apr 18 05:19:30 2020  
 Response via : Initial Calibration

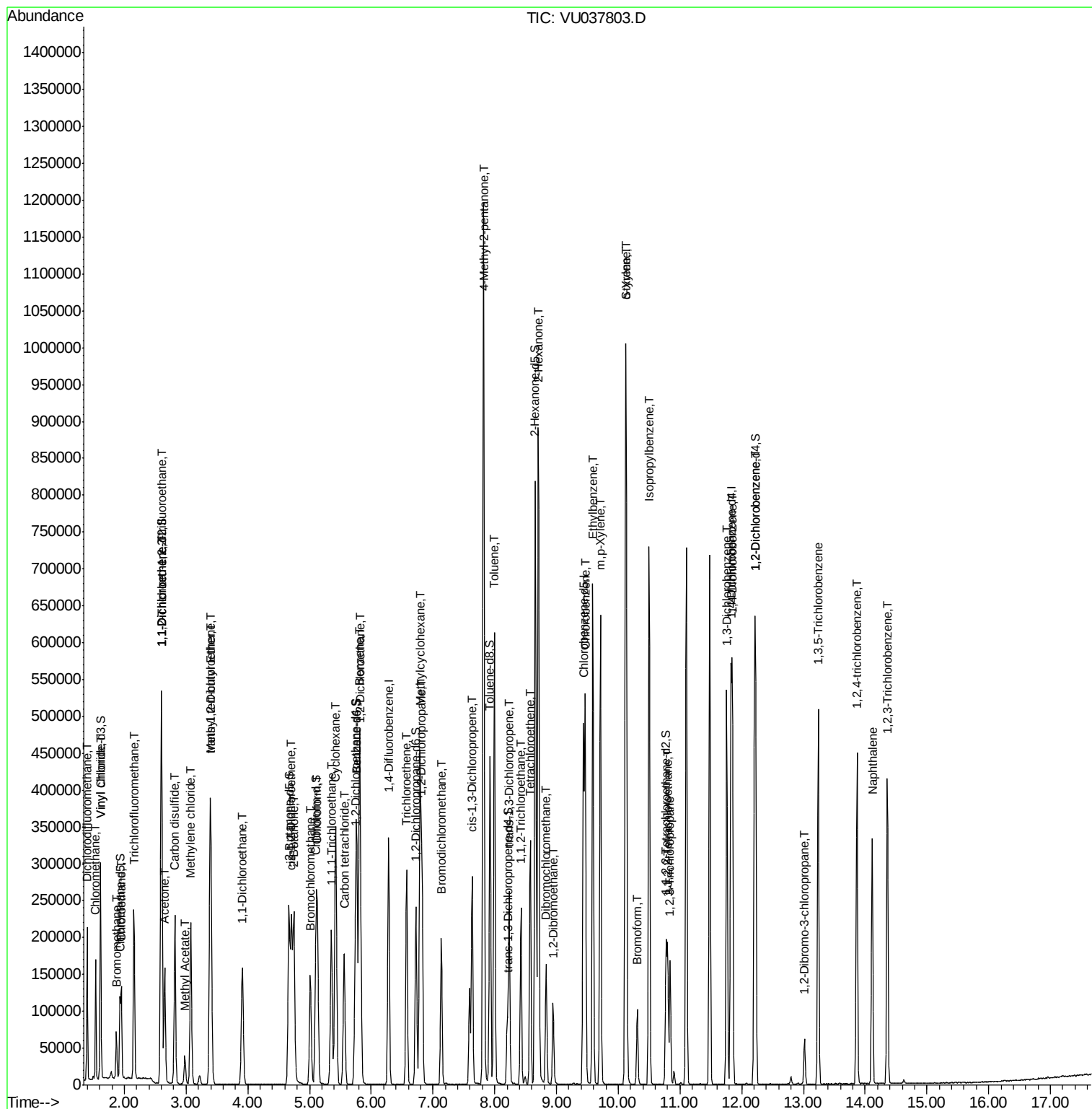
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 5.02  | 128  | 40786    | 4.708  | ug/L  | 90       |
| 25) Chloroform                 | 5.13  | 83   | 178831   | 5.145  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.83  | 62   | 122788   | 5.226  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane      | 5.35  | 97   | 147467   | 4.972  | ug/L  | 98       |
| 30) Cyclohexane                | 5.42  | 56   | 185866   | 5.063  | ug/L  | 95       |
| 31) Carbon tetrachloride       | 5.56  | 117  | 119746   | 5.066  | ug/L  | 98       |
| 33) Benzene                    | 5.81  | 78   | 398056   | 4.929  | ug/L  | 100      |
| 34) Trichloroethene            | 6.57  | 95   | 97814    | 4.928  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.79  | 83   | 168204   | 4.835  | ug/L  | 97       |
| 37) 1,2-Dichloropropane        | 6.82  | 63   | 108297   | 5.056  | ug/L  | 98       |
| 38) Bromodichloromethane       | 7.13  | 83   | 127692   | 5.013  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.63  | 75   | 157702   | 4.703  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.82  | 43   | 799894   | 50.794 | ug/L  | 98       |
| 42) Toluene                    | 7.99  | 91   | 419454   | 4.958  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 8.23  | 75   | 135782   | 4.665  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane      | 8.42  | 97   | 70162    | 4.861  | ug/L  | 99       |
| 47) Tetrachloroethene          | 8.57  | 164  | 70285    | 4.928  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.71  | 43   | 574431   | 50.947 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.83  | 129  | 79465    | 4.817  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.95  | 107  | 67212    | 4.842  | ug/L  | 98       |
| 51) Chlorobenzene              | 9.47  | 112  | 255173   | 4.944  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.59  | 91   | 466522   | 4.957  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.71  | 106  | 176355   | 4.951  | ug/L  | 100      |
| 54) o-Xylene                   | 10.12 | 106  | 170417   | 4.861  | ug/L  | 98       |
| 55) Styrene                    | 10.13 | 104  | 291942   | 4.871  | ug/L  | 96       |
| 56) Isopropylbenzene           | 10.50 | 105  | 461654   | 5.020  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 93092    | 4.954  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.84 | 75   | 68621    | 4.895  | ug/L  | 99       |
| 61) Bromoform                  | 10.31 | 173  | 45100    | 4.604  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.76 | 146  | 200427   | 4.854  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.85 | 146  | 199669   | 4.822  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 12.22 | 146  | 188343   | 4.845  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 16377    | 4.545  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 145812   | 4.815  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.87 | 180  | 132289   | 4.760  | ug/L  | 98       |
| 69) Naphthalene                | 14.11 | 128  | 255899   | 4.546  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 14.36 | 180  | 118083   | 4.768  | ug/L  | 100      |

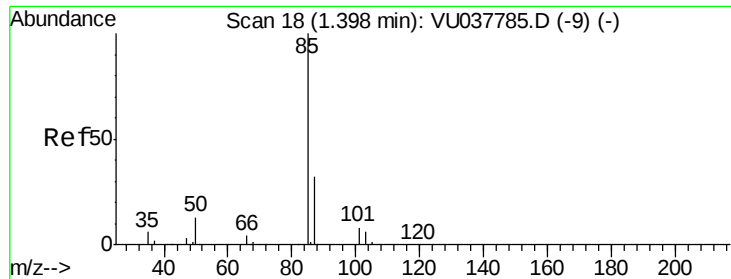
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041720\  
Data File : VU037803.D  
Acq On : 18 Apr 2020 04:23  
Operator : JC/MD  
Sample : VSTDCCC005EC  
Misc : 25mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**

Quant Time: Apr 18 05:26:03 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Apr 18 05:19:30 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.194 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Instrument :

MSVOA\_U

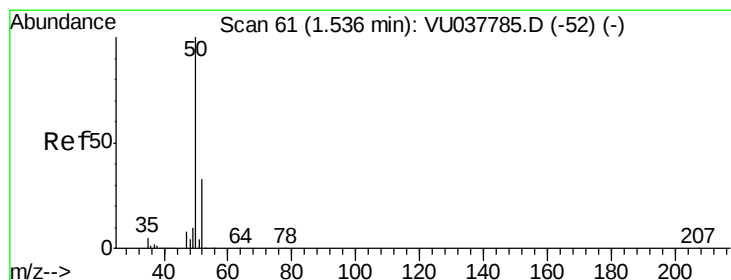
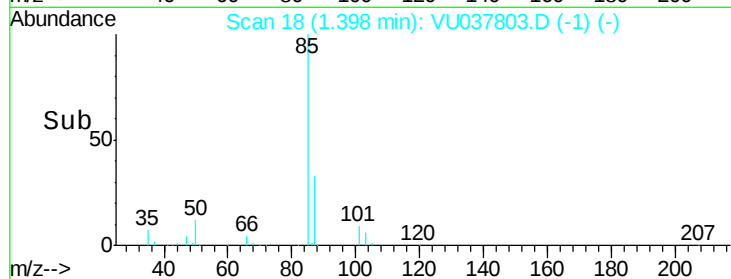
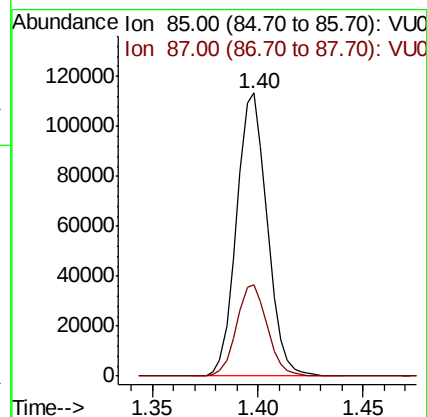
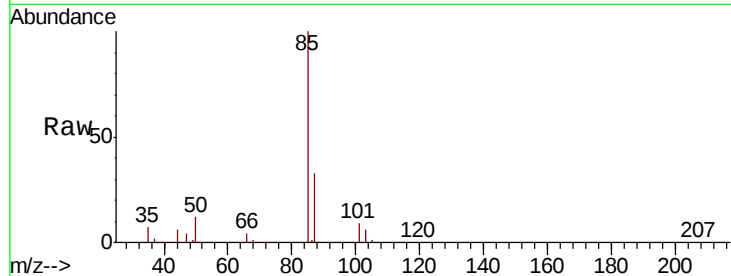
ClientSampled :

Tot Ion: 85 Resp: 113930

Ion Ratio Lower Upper

85 100

87 32.3 26.2 39.4



#3

Chloromethane

Concen: 3.760 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037803.D

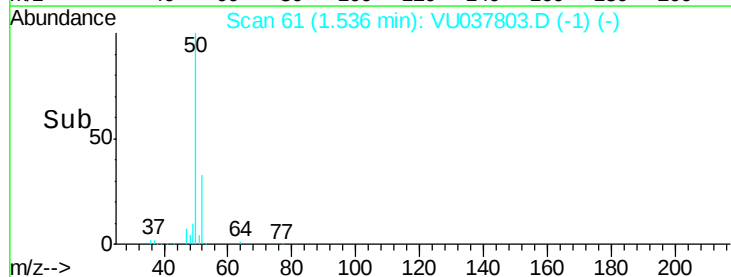
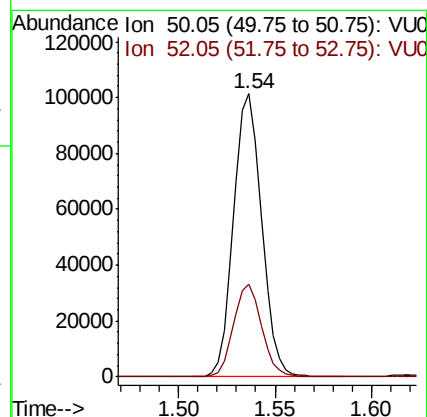
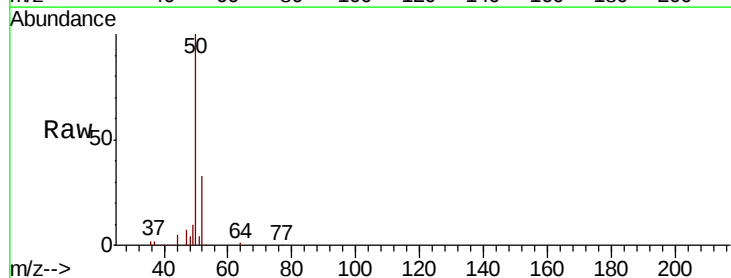
Acq: 18 Apr 2020 04:23

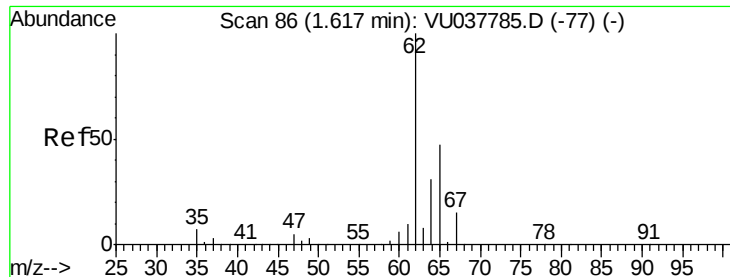
Tgt Ion: 50 Resp: 101978

Ion Ratio Lower Upper

50 100

52 32.7 23.0 42.6





#5

Vinyl chloride

Concen: 4.898 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Instrument :

MSVOA\_U

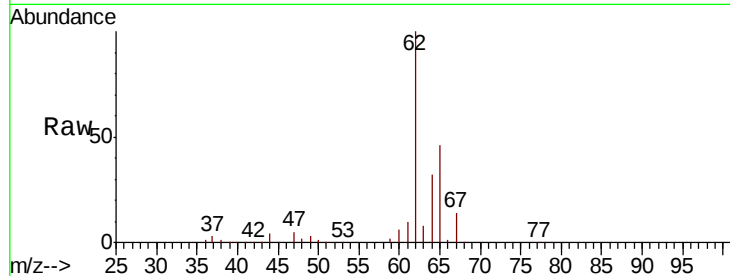
ClientSampled :

Tot Ion: 62 Resp: 130522

Ion Ratio Lower Upper

62 100

64 32.1 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VU037785.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU037785.D (-77) (-)

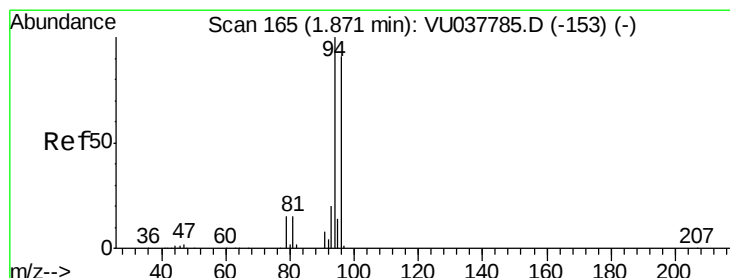
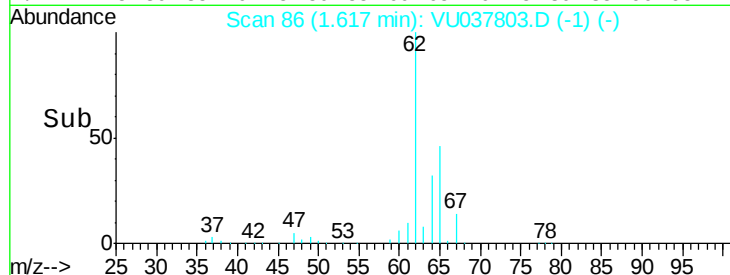
1.62

100000

50000

0

Time-->



#6

Bromomethane

Concen: 1.901 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU037803.D

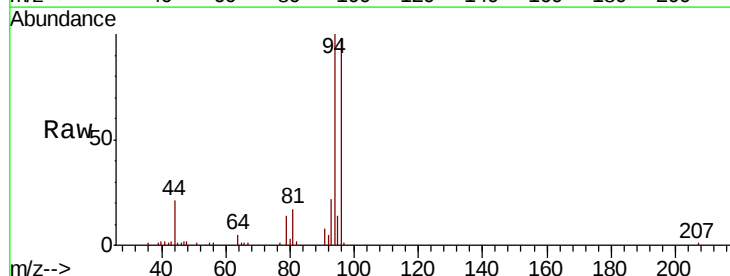
Acq: 18 Apr 2020 04:23

Tgt Ion: 94 Resp: 29088

Ion Ratio Lower Upper

94 100

96 97.8 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU037785.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU037785.D (-153) (-)

1.87

25000

20000

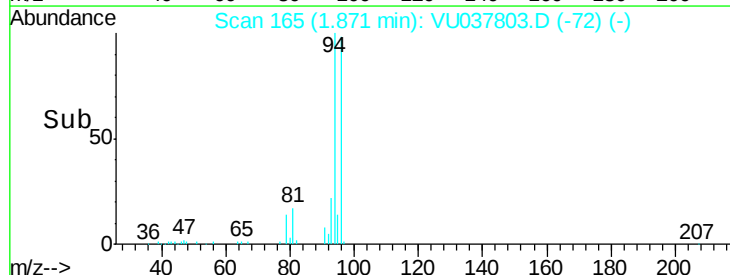
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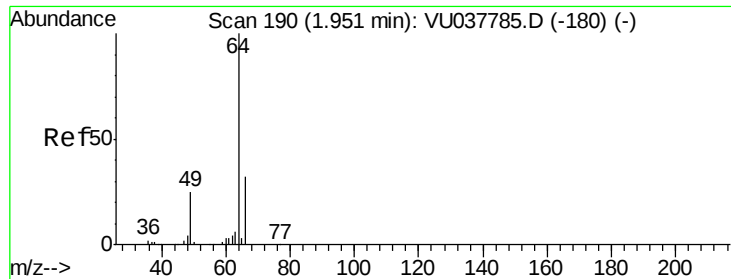
10000

5000

0

Time-->

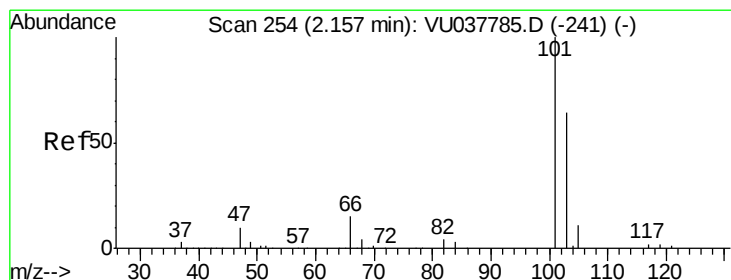
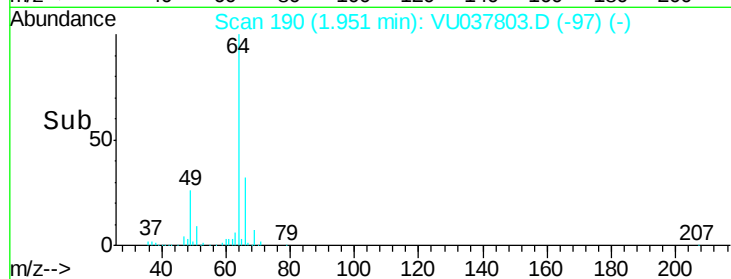
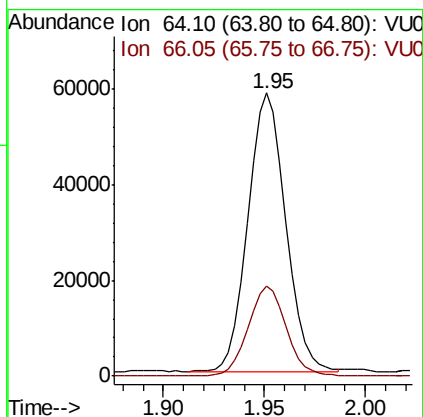
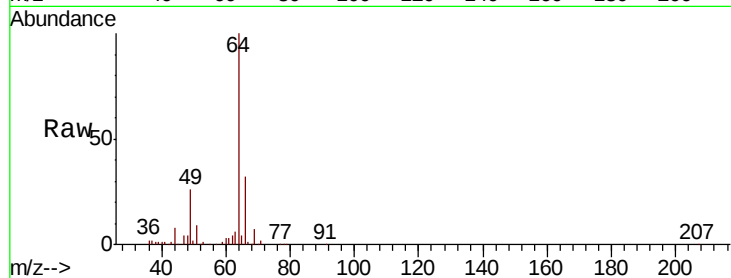




#8  
Chloroethane  
Concen: 4.864 ug/L  
RT: 1.95 min Scan# 190  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

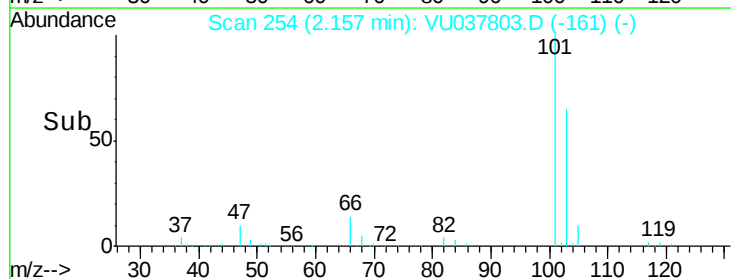
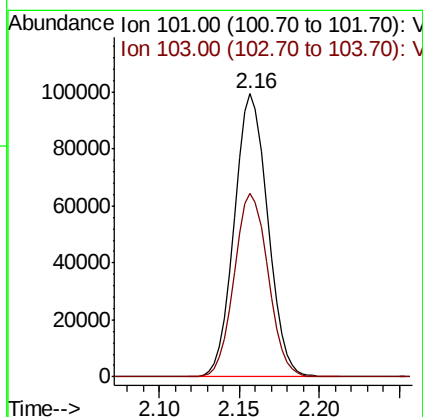
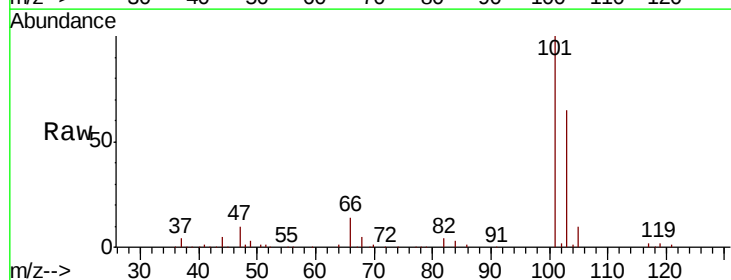
Instrument :  
MSVOA\_U  
ClientSampleId :

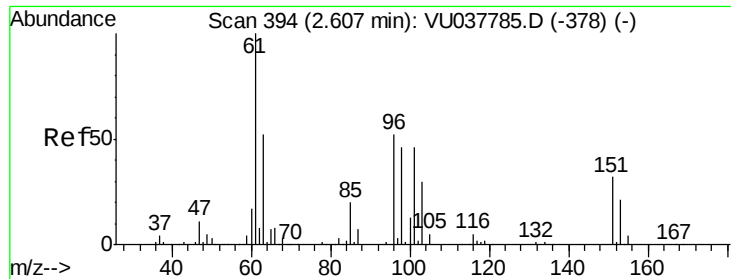
Tot Ion: 64 Resp: 76092  
Ion Ratio Lower Upper  
64 100  
66 31.9 22.3 41.5



#9  
Trichlorofluoromethane  
Concen: 4.946 ug/L  
RT: 2.16 min Scan# 254  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

Tgt Ion:101 Resp: 141424  
Ion Ratio Lower Upper  
101 100  
103 65.6 51.0 76.6





#10

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

Concen: 4.912 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Instrument :

MSVOA\_U

ClientSampled :

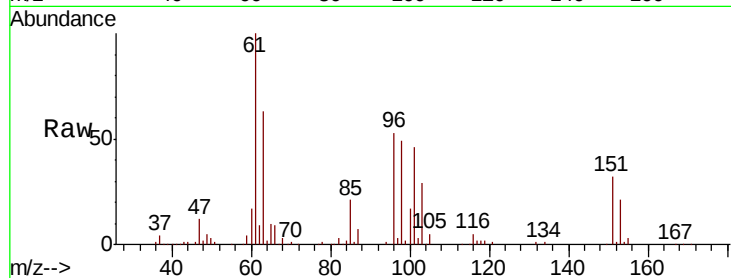
Tot Ion:101 Resp: 81766

Ion Ratio Lower Upper

101 100

85 45.1 34.5 51.7

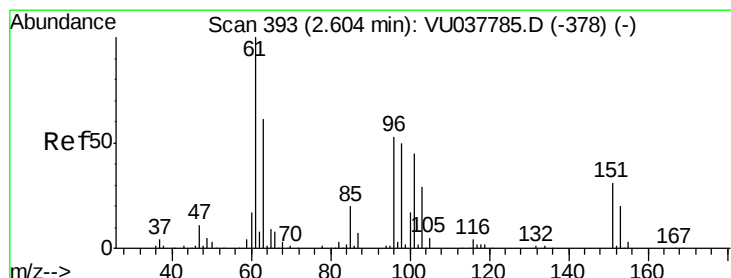
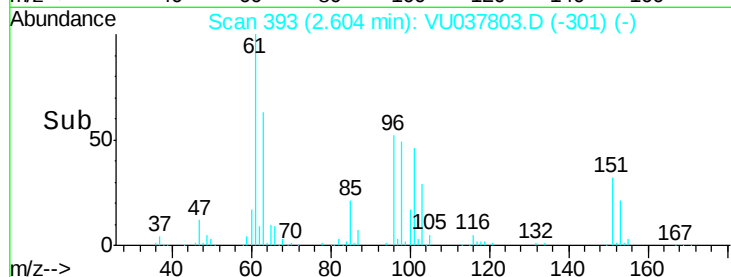
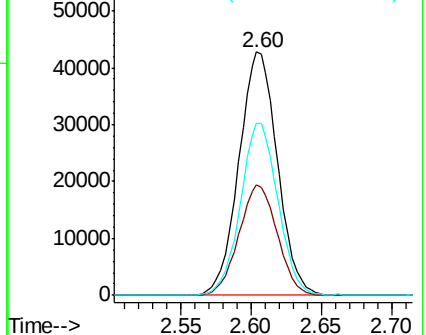
151 68.8 56.9 85.3



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: 4.645 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

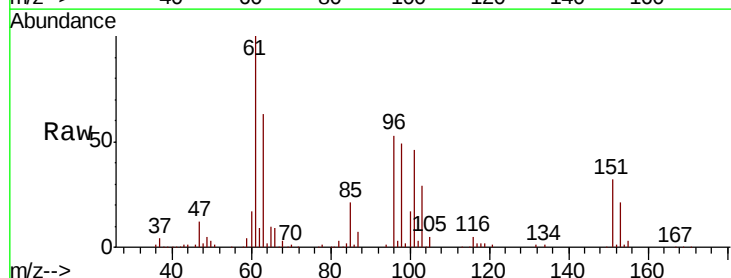
Tgt Ion: 96 Resp: 81058

Ion Ratio Lower Upper

96 100

61 190.2 127.7 237.3

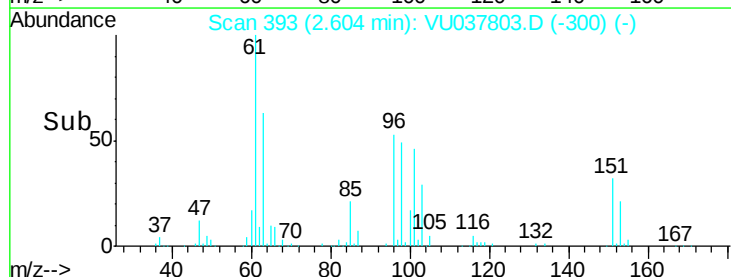
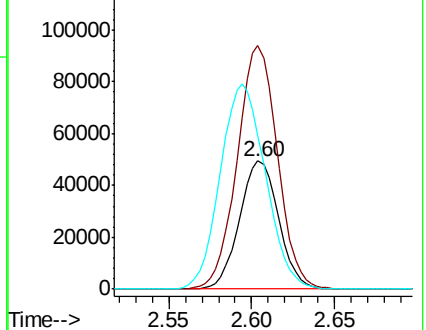
63 120.2 85.0 157.8

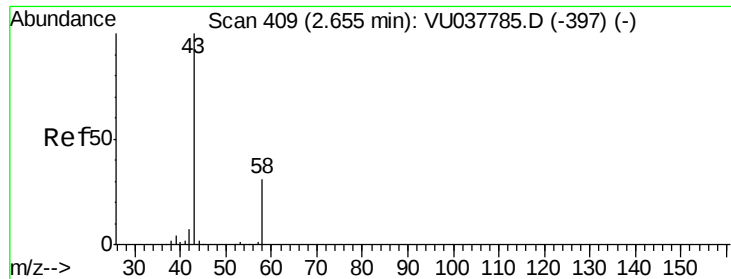


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 48.408 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

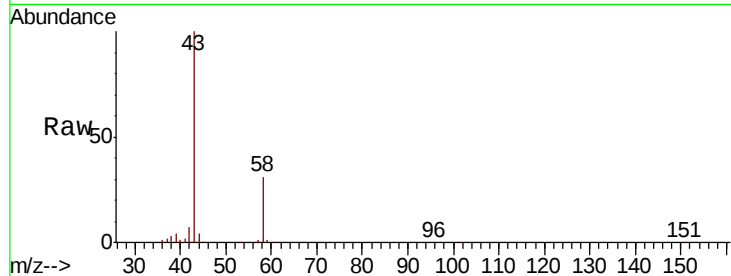
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 43 Resp: 167727

Ion Ratio Lower Upper

43 100

58 30.5 0.0 64.8



Abundance Ion 43.05 (42.75 to 43.75): VU037785.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VU037785.D (-397) (-)

2.66

100000

80000

60000

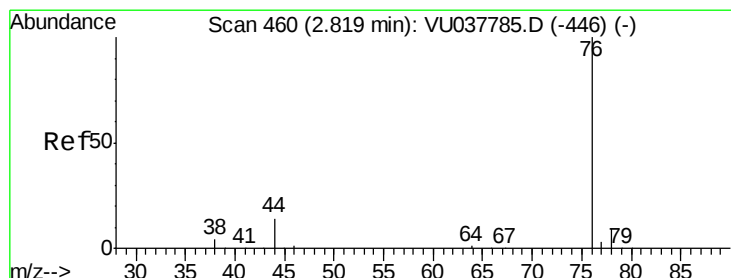
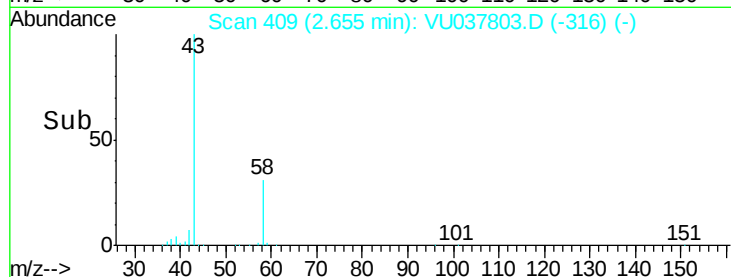
40000

20000

0

Time-->

2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 4.530 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037803.D

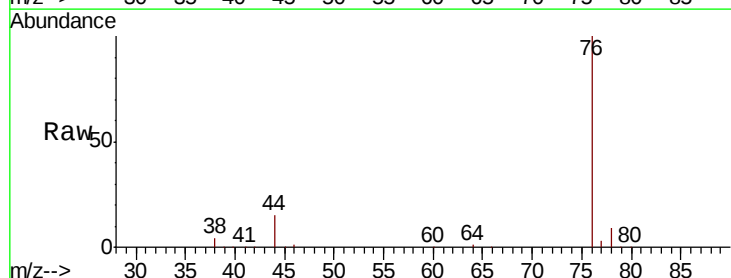
Acq: 18 Apr 2020 04:23

Tgt Ion: 76 Resp: 288659

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU037785.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU037785.D (-446) (-)

2.82

200000

150000

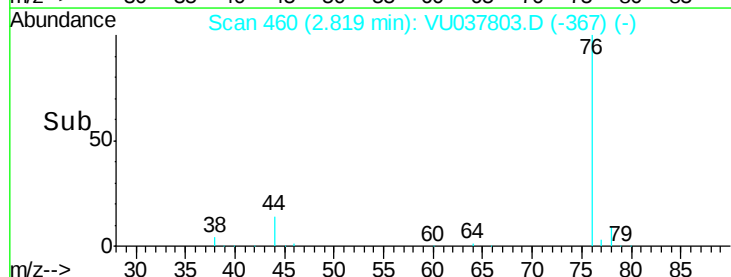
100000

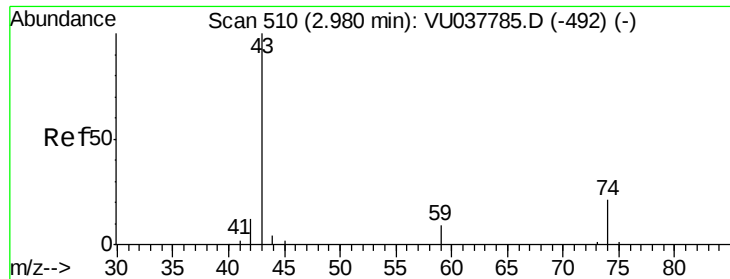
50000

0

Time-->

2.75 2.80 2.85 2.90

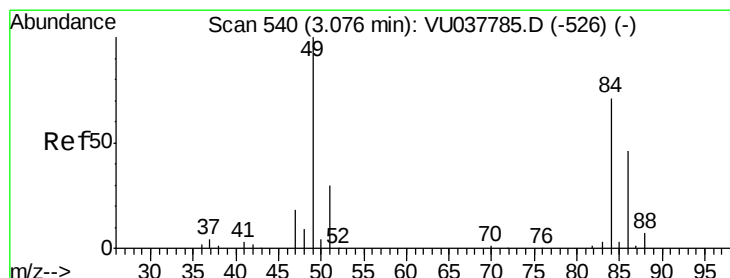
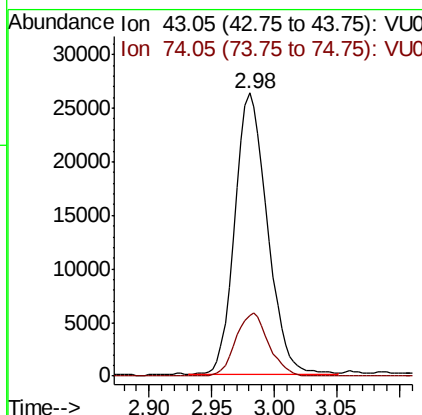
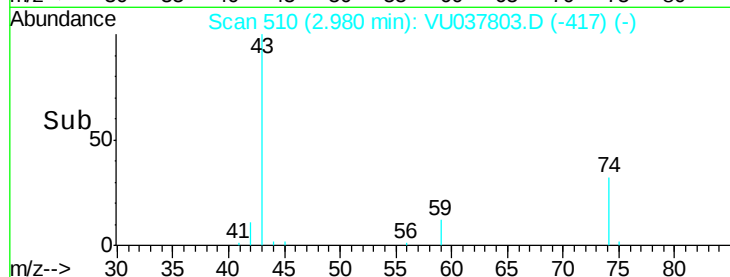
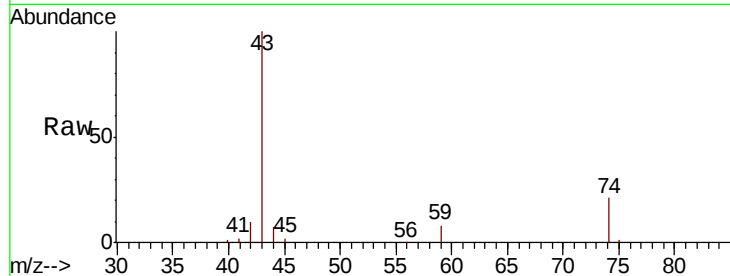




#15  
Methvl Acetate  
Concen: 4.908 ug/L  
RT: 2.98 min Scan# 510  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

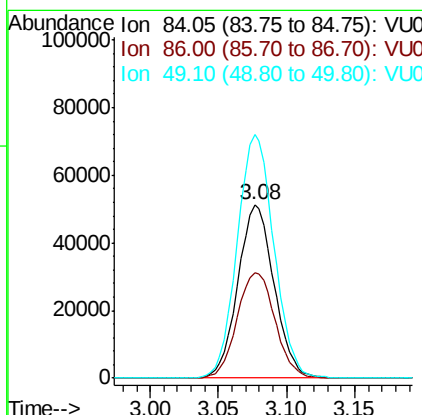
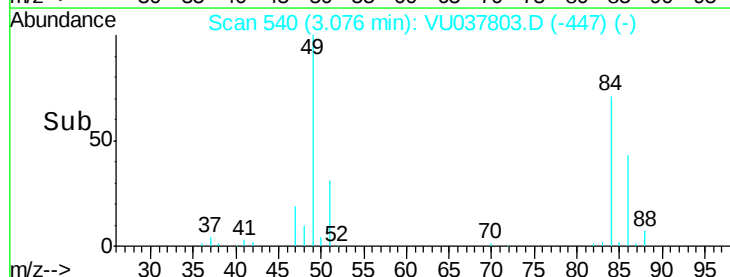
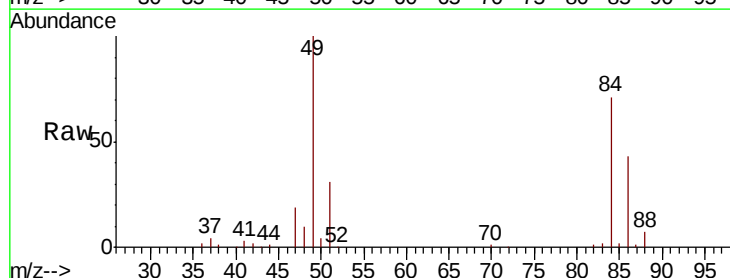
Instrument :  
MSVOA\_U  
ClientSampleId :

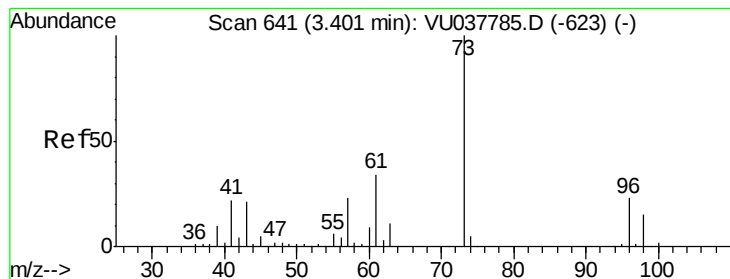
Tot Ion: 43 Resp: 47281  
Ion Ratio Lower Upper  
43 100  
74 22.5 17.2 25.8



#16  
Methylene chloride  
Concen: 4.812 ug/L  
RT: 3.08 min Scan# 540  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

Tgt Ion: 84 Resp: 94664  
Ion Ratio Lower Upper  
84 100  
86 60.9 44.2 82.0  
49 140.5 92.4 171.6



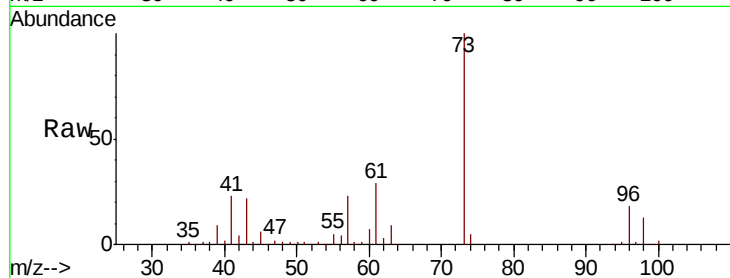


#17

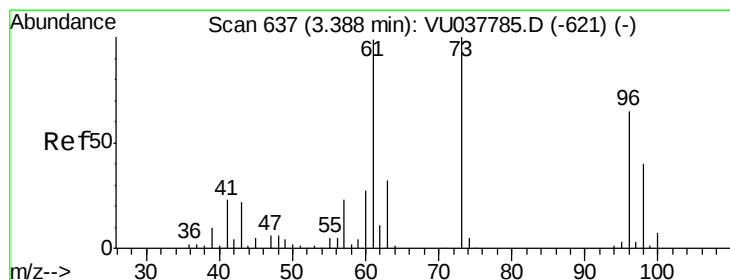
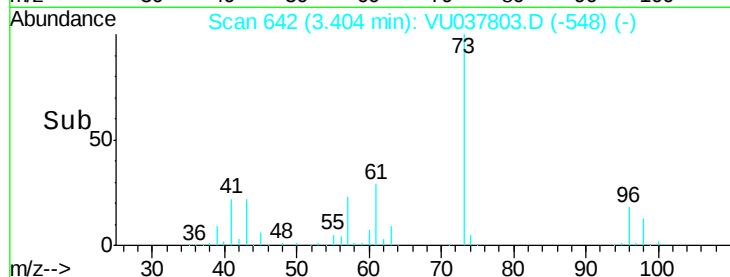
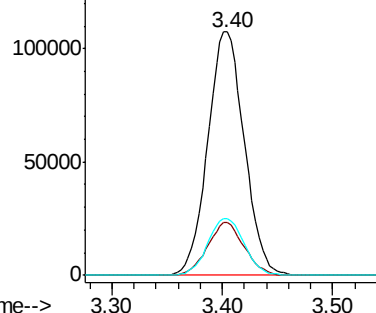
Methvl tert-butvl Ether  
 Concen: 4.875 ug/L  
 RT: 3.40 min Scan# 642  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

Instrument :  
 MSVOA\_U  
 ClientSampled :

Tot Ion: 73 Resp: 246353  
 Ion Ratio Lower Upper  
 73 100  
 43 21.8 16.4 24.6  
 57 23.4 18.4 27.6



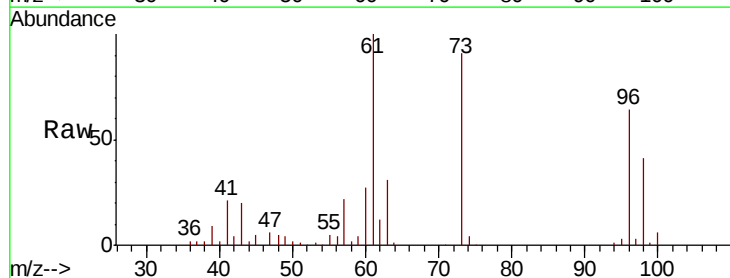
Abundance Ion 73.10 (72.80 to 73.80): VU0  
 Ion 43.05 (42.75 to 43.75): VU0  
 Ion 57.10 (56.80 to 57.80): VU0



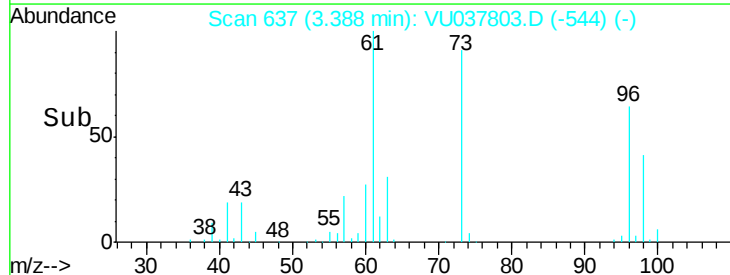
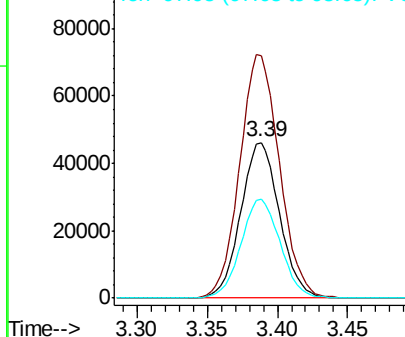
#18

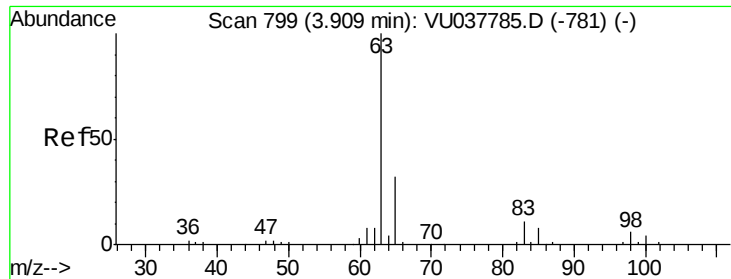
trans-1,2-Dichloroethene  
 Concen: 4.704 ug/L  
 RT: 3.39 min Scan# 637  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

Tgt Ion: 96 Resp: 88985  
 Ion Ratio Lower Upper  
 96 100  
 61 155.7 106.7 198.3  
 98 63.9 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 5.110 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Instrument :

MSVOA\_U

ClientSampled :

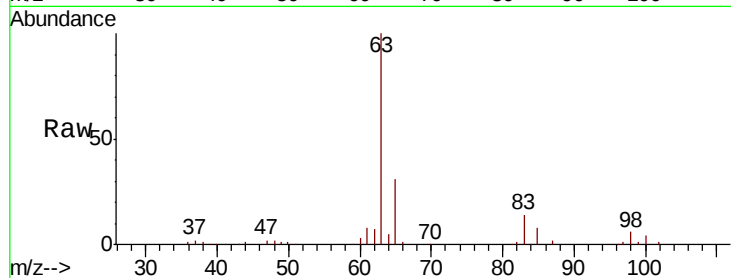
Tot Ion: 63 Resp: 186995

Ion Ratio Lower Upper

63 100

65 31.1 21.6 40.2

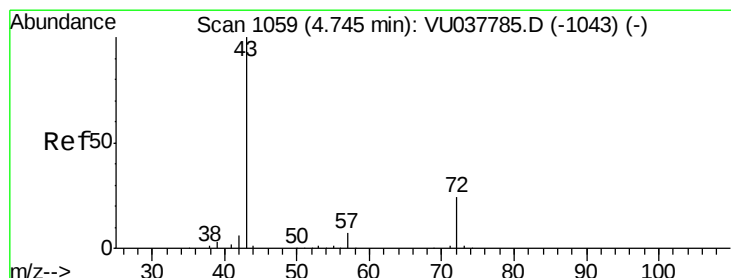
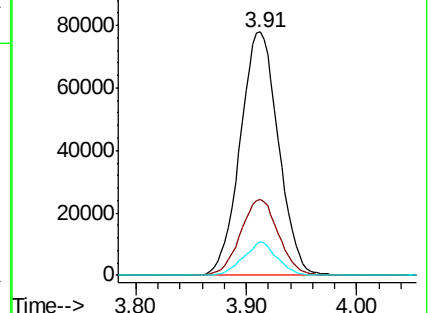
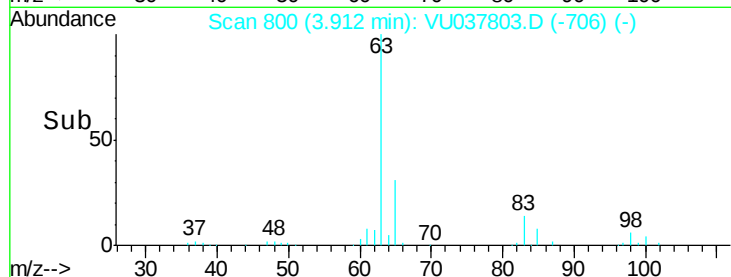
83 13.7 8.6 16.0



Abundance Ion 63.10 (62.80 to 63.80): VU037803.D (-706) (-)

Ion 65.10 (64.80 to 65.80): VU037803.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU037803.D (-706) (-)



#21

2-Butanone

Concen: 50.614 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU037803.D

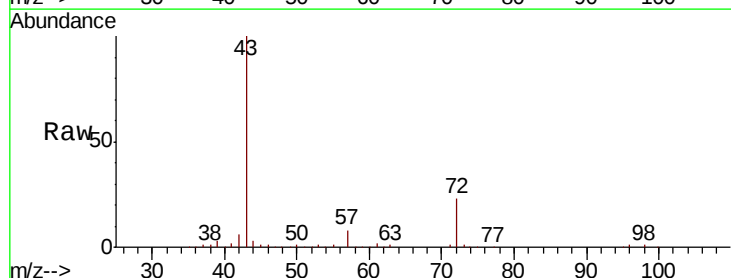
Acq: 18 Apr 2020 04:23

Tgt Ion: 43 Resp: 318630

Ion Ratio Lower Upper

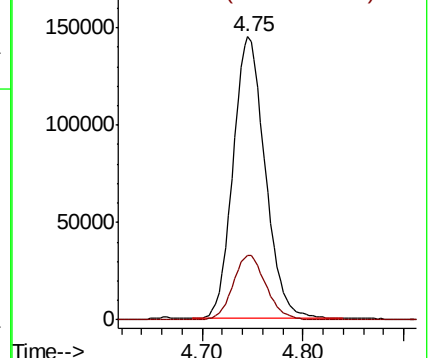
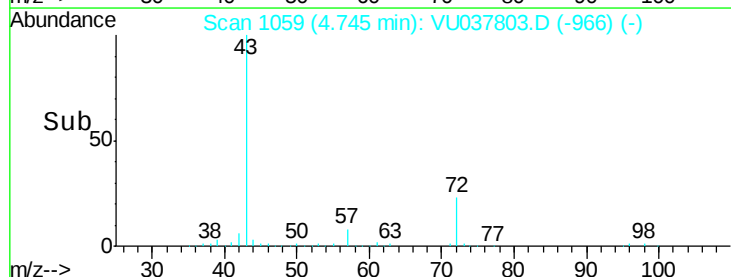
43 100

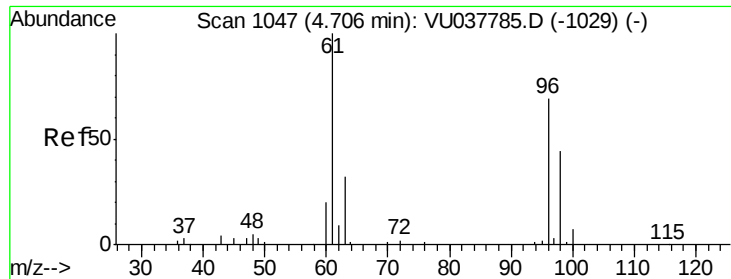
72 23.9 12.6 37.6



Abundance Ion 43.05 (42.75 to 43.75): VU037803.D (-966) (-)

Ion 72.10 (71.80 to 72.80): VU037803.D (-966) (-)

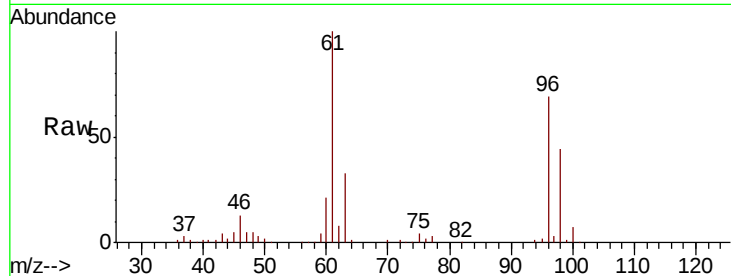




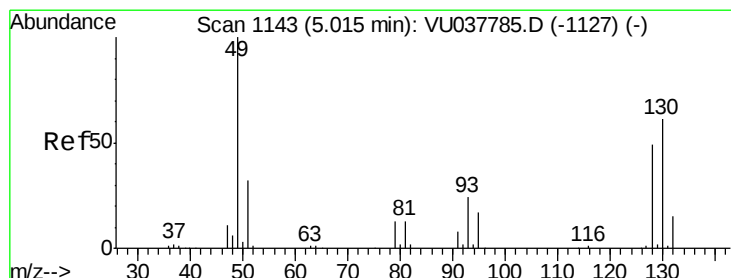
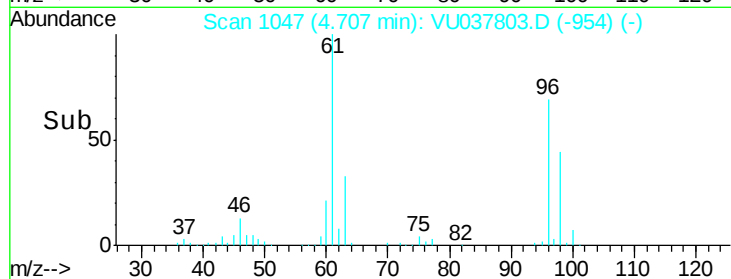
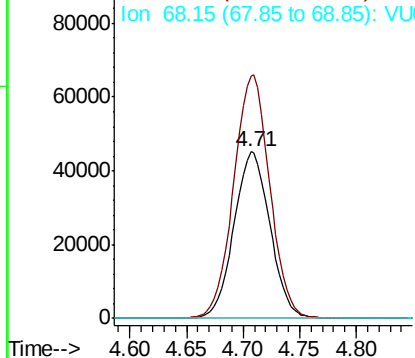
#22  
 cis-1,2-Dichloroethene  
 Concen: 4.898 ug/L  
 RT: 4.71 min Scan# 1047  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

Instrument :  
 MSVOA\_U  
 ClientSampled :

Tot Ion: 96 Resp: 100130  
 Ion Ratio Lower Upper  
 96 100  
 61 145.9 97.0 180.2  
 68 0.0 0.0 0.0

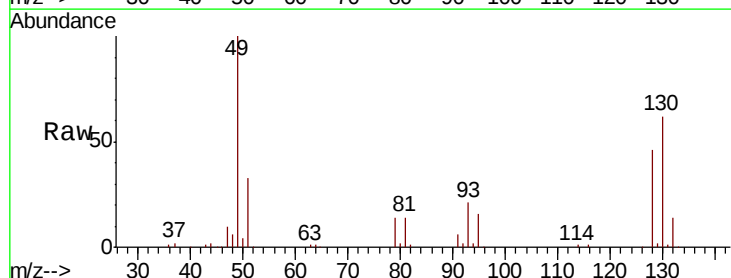


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0

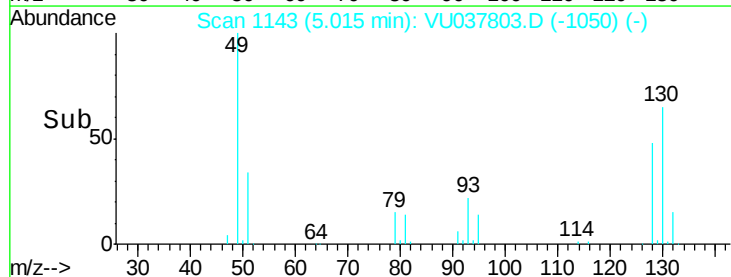
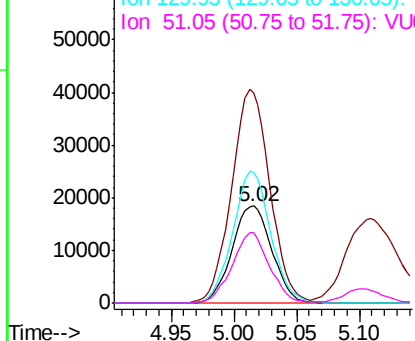


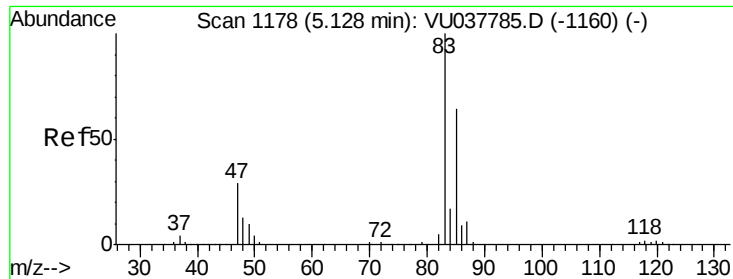
#23  
 Bromochloromethane  
 Concen: 4.708 ug/L  
 RT: 5.02 min Scan# 1143  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

Tgt Ion: 128 Resp: 40786  
 Ion Ratio Lower Upper  
 128 100  
 49 217.1 138.6 257.4  
 130 134.7 91.3 169.5  
 51 72.5 49.3 73.9



Abundance Ion 127.90 (127.60 to 128.60): V  
 Ion 49.10 (48.80 to 49.80): VU0  
 Ion 129.95 (129.65 to 130.65): V  
 Ion 51.05 (50.75 to 51.75): VU0

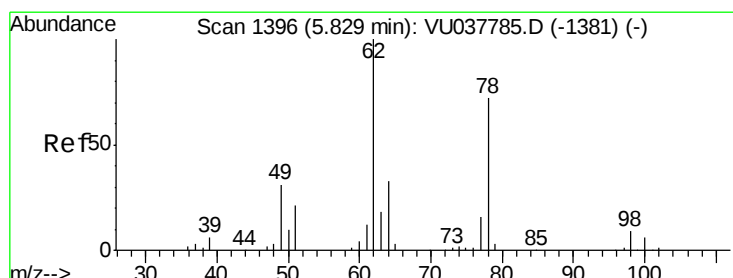
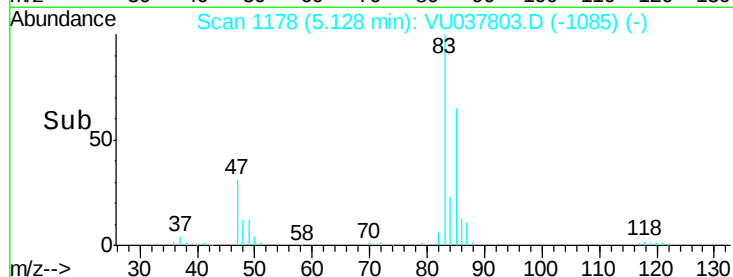
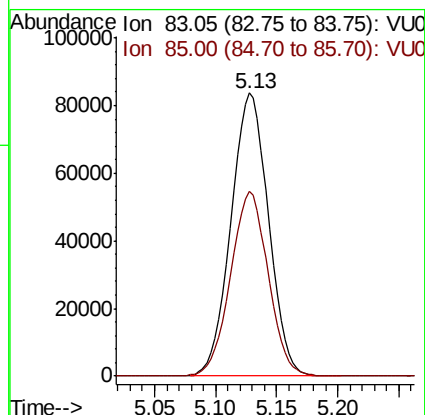
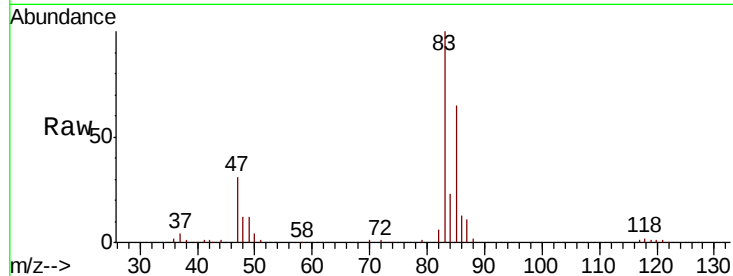




#25  
Chloroform  
Concen: 5.145 ug/L  
RT: 5.13 min Scan# 1178  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

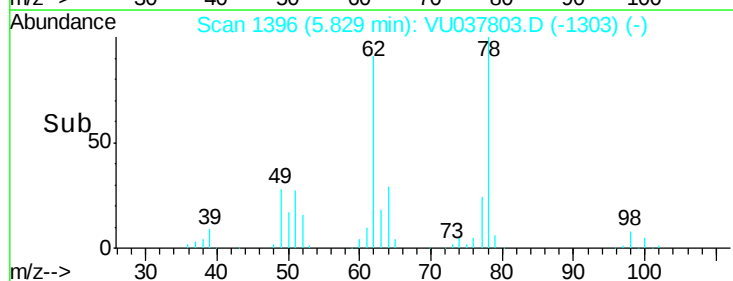
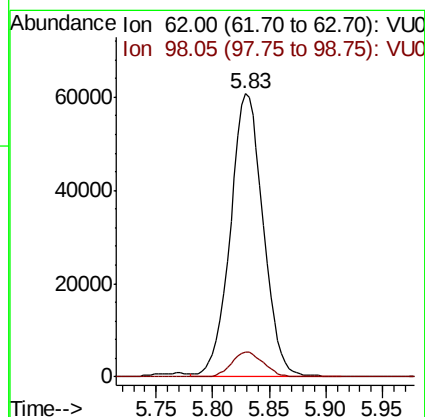
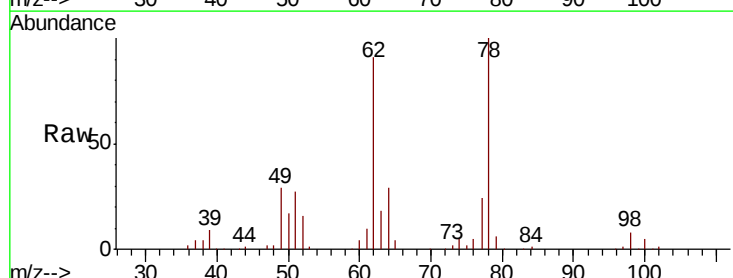
Instrument :  
MSVOA\_U  
ClientSampleId :

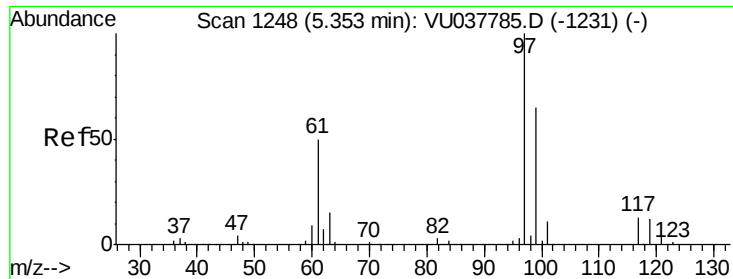
Tot Ion: 83 Resp: 178831  
Ion Ratio Lower Upper  
83 100  
85 65.1 44.9 83.3



#27  
1,2-Dichloroethane  
Concen: 5.226 ug/L  
RT: 5.83 min Scan# 1396  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

Tgt Ion: 62 Resp: 122788  
Ion Ratio Lower Upper  
62 100  
98 8.9 7.6 11.4



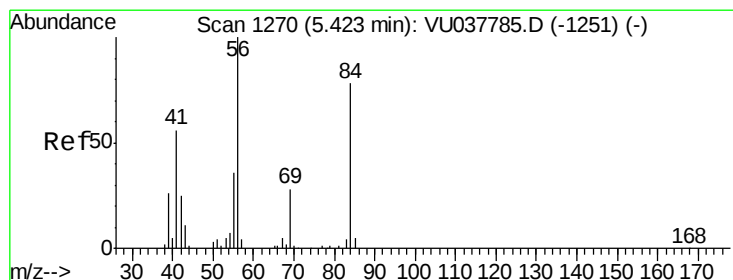
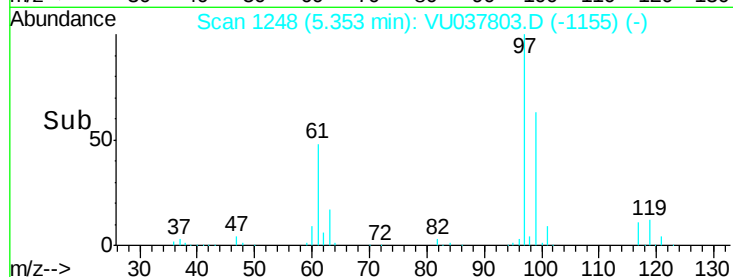
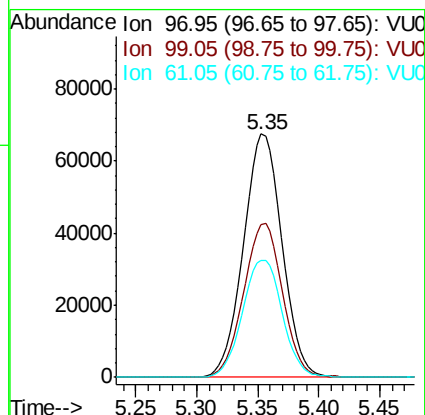
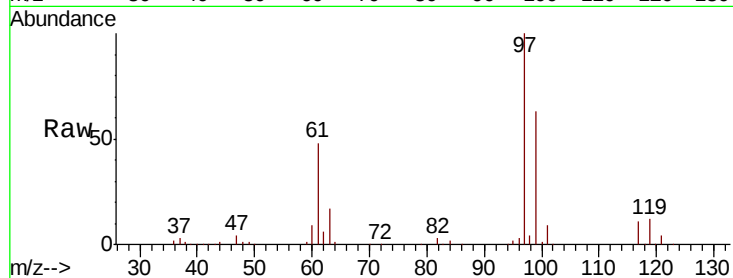


#29  
 1,1,1-Trichloroethane  
 Concen: 4.972 ug/L  
 RT: 5.35 min Scan# 1248  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 97 Resp: 147467  

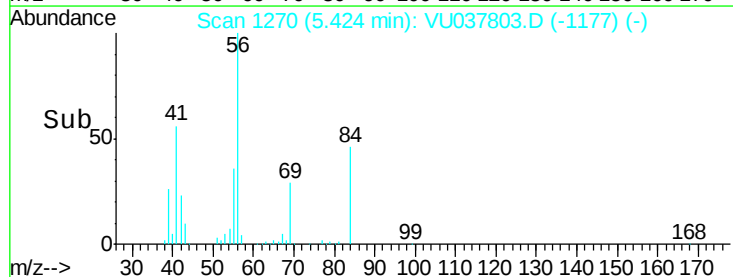
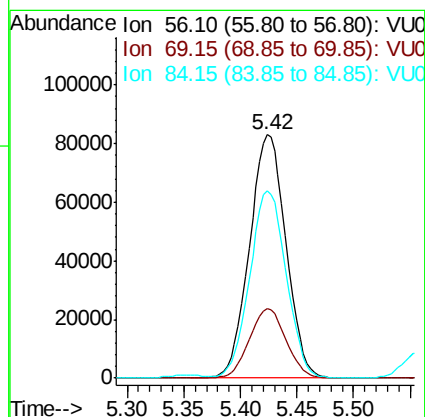
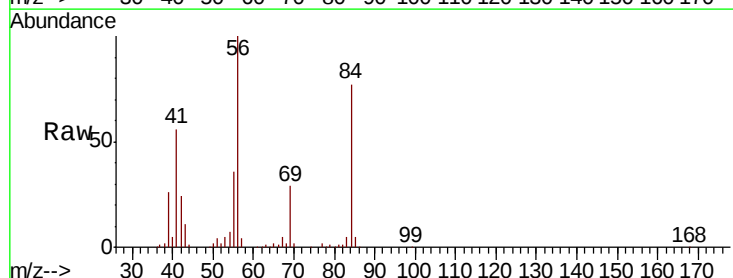
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 63.8  | 52.0  | 78.0  |
| 61  | 49.8  | 37.8  | 56.8  |

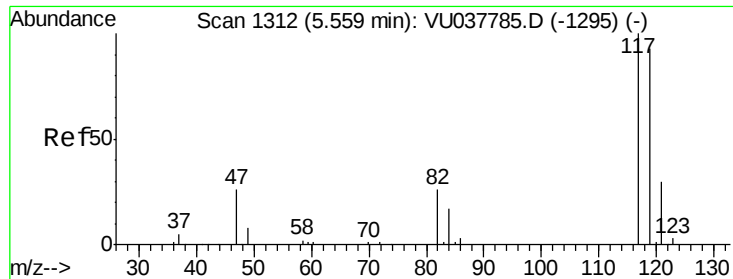


#30  
 Cyclohexane  
 Concen: 5.063 ug/L  
 RT: 5.42 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

Tgt Ion: 56 Resp: 185866  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 28.7  | 23.9  | 35.9  |
| 84  | 77.2  | 65.6  | 98.4  |





#31

Carbon tetrachloride

Concen: 5.066 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Instrument :

MSVOA\_U

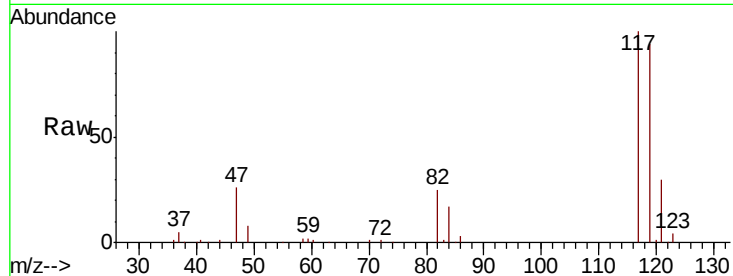
ClientSampleId :

Tot Ion:117 Resp: 119746

Ion Ratio Lower Upper

117 100

119 94.3 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.56

60000

50000

40000

30000

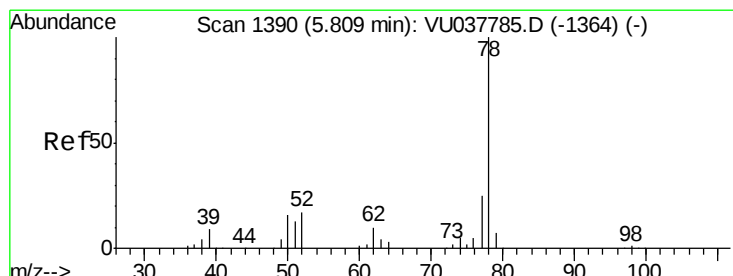
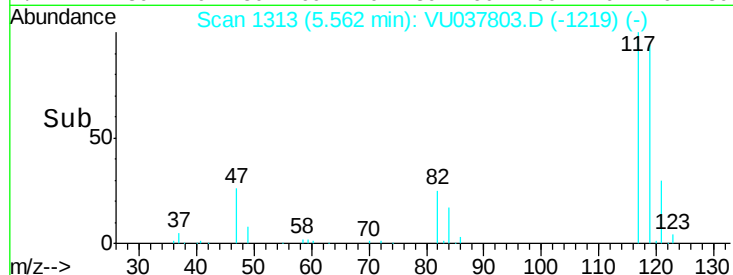
20000

10000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 4.929 ug/L

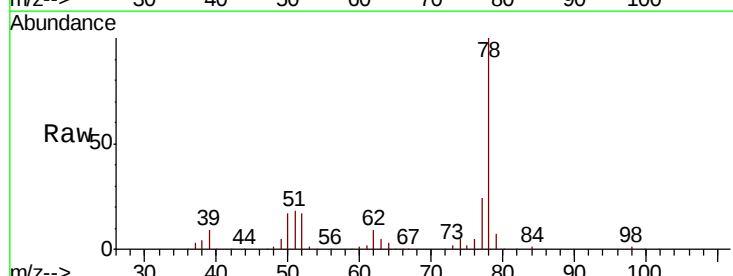
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Tgt Ion: 78 Resp: 398056



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.81

200000

150000

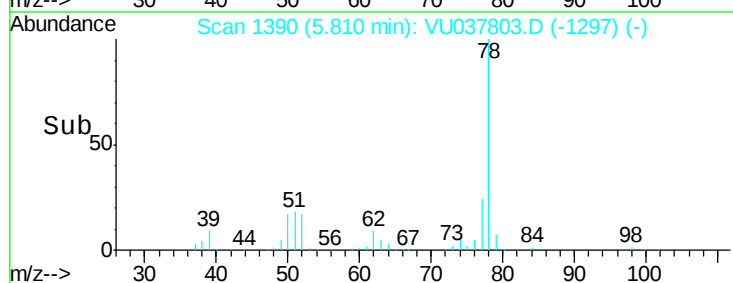
100000

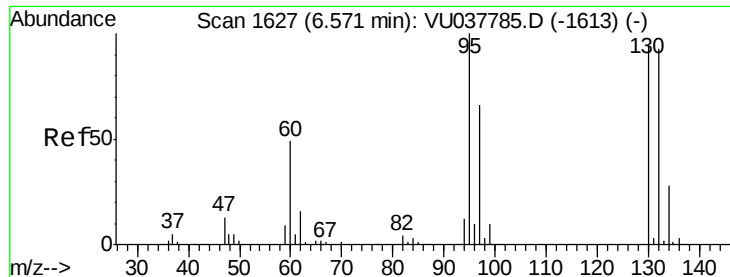
50000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 4.928 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 95 Resp: 97814

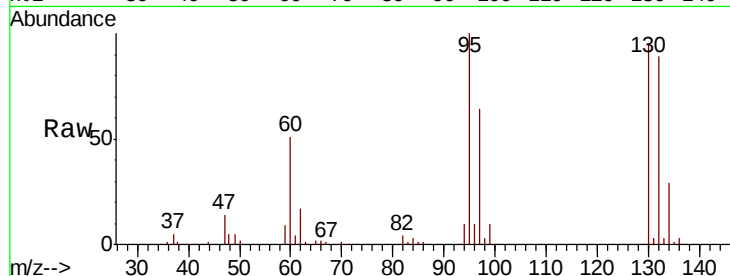
Ion Ratio Lower Upper

95 100

97 63.9 45.4 84.2

132 88.8 63.7 118.3

130 95.3 68.7 127.5



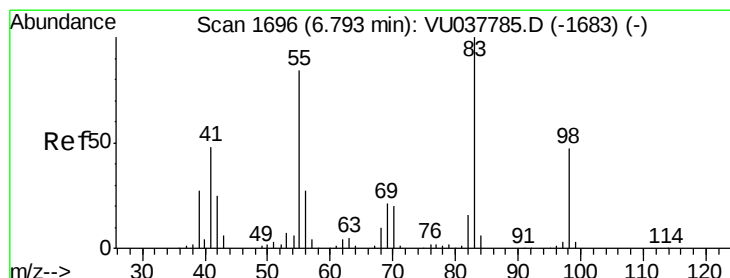
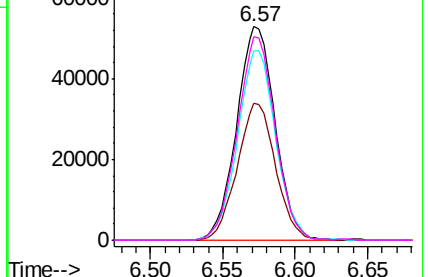
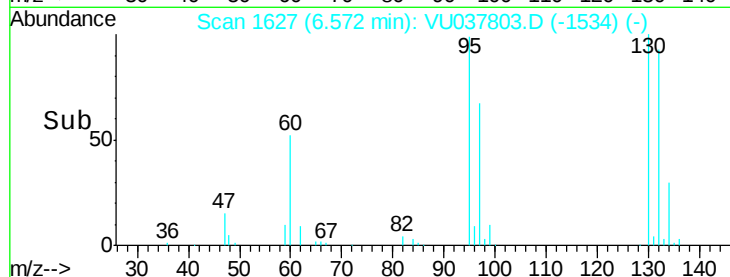
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

Time-->



#35

Methylcyclohexane

Concen: 4.835 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

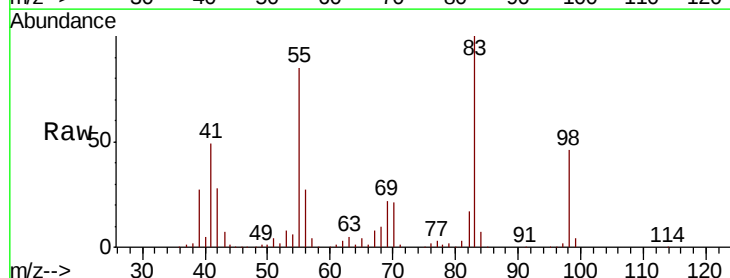
Tgt Ion: 83 Resp: 168204

Ion Ratio Lower Upper

83 100

55 85.6 65.5 98.3

98 46.8 38.2 57.4

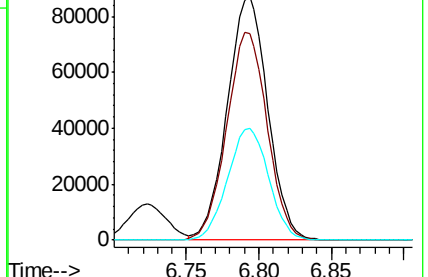
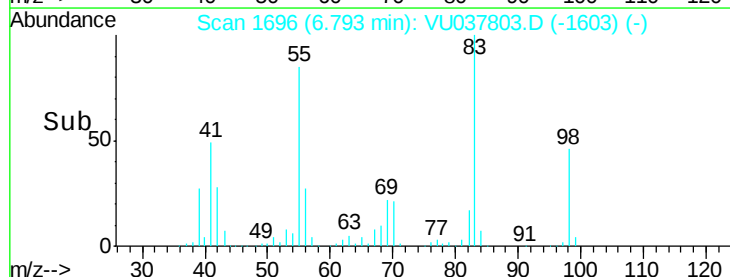


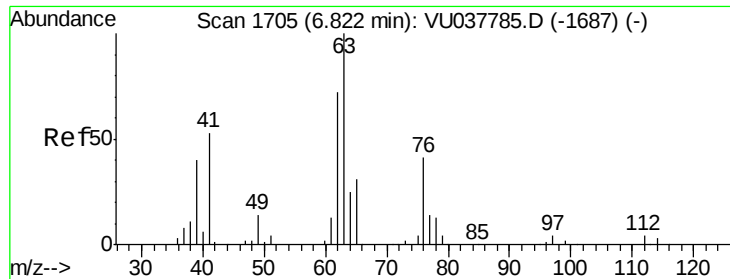
Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

Time-->

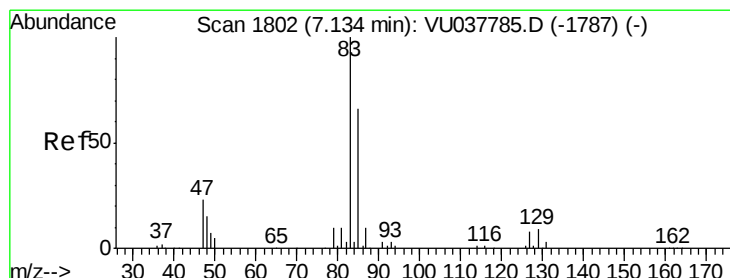
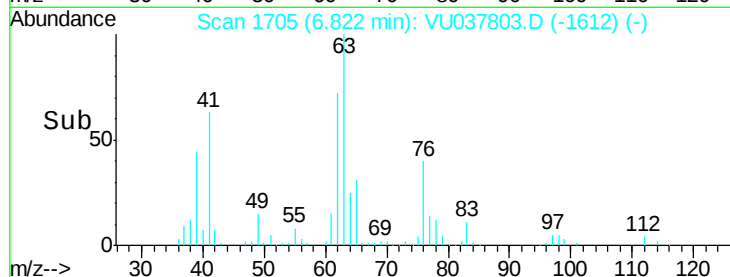
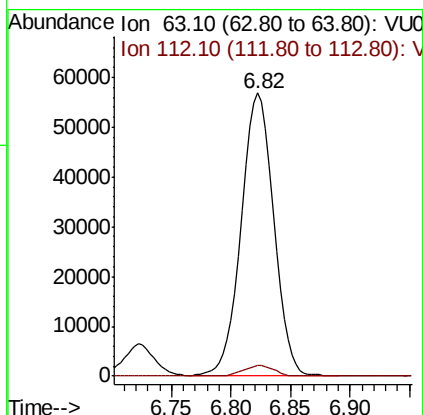
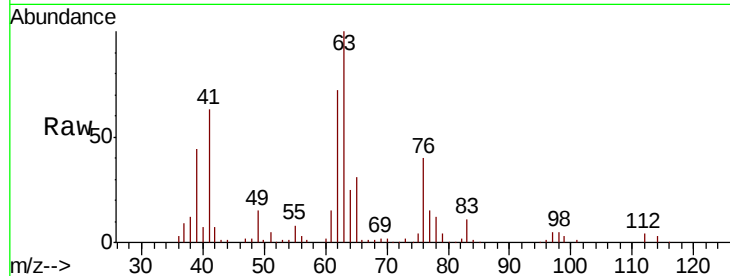




#37  
 1,2-Dichloropropane  
 Concen: 5.056 ug/L  
 RT: 6.82 min Scan# 1705  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

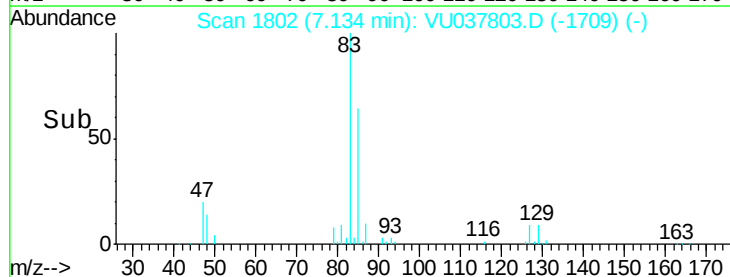
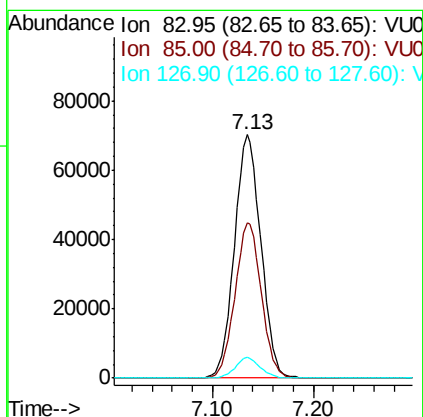
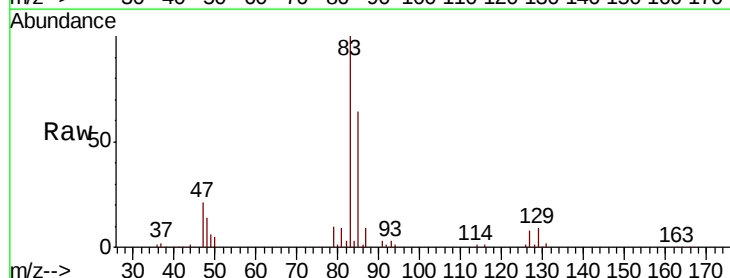
Instrument :  
 MSVOA\_U  
 ClientSampleId :

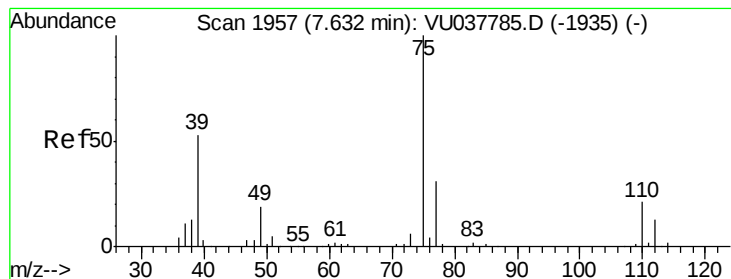
Tot Ion: 63 Resp: 108297  
 Ion Ratio Lower Upper  
 63 100  
 112 3.5 3.4 5.0



#38  
 Bromodichloromethane  
 Concen: 5.013 ug/L  
 RT: 7.13 min Scan# 1802  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

Tgt Ion: 83 Resp: 127692  
 Ion Ratio Lower Upper  
 83 100  
 85 63.7 45.1 83.7  
 127 8.4 6.6 9.8



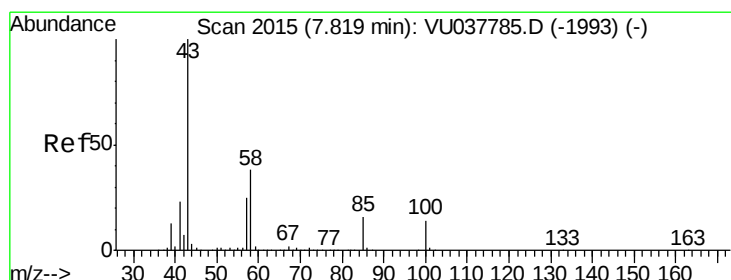
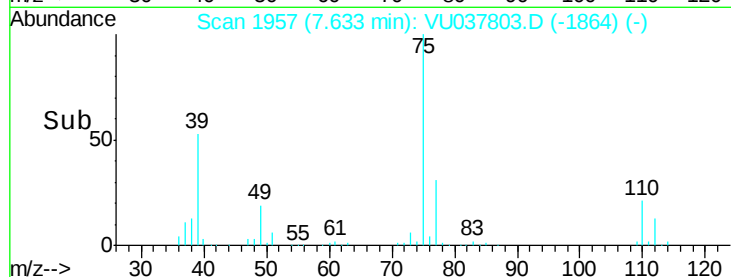
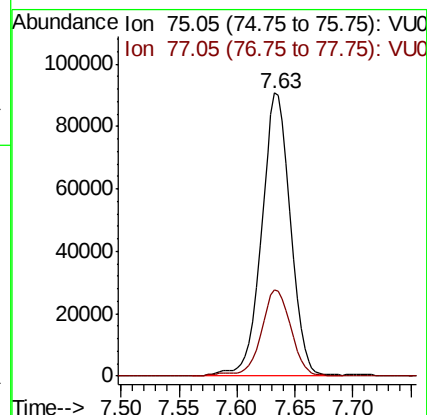
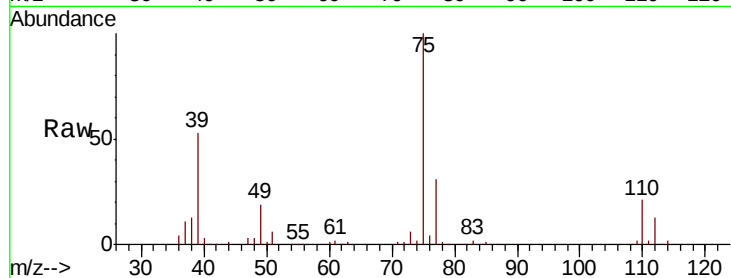


#39

cis-1,3-Dichloropropene  
Concen: 4.703 ug/L  
RT: 7.63 min Scan# 1957  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

Instrument :  
MSVOA\_U  
ClientSampled :

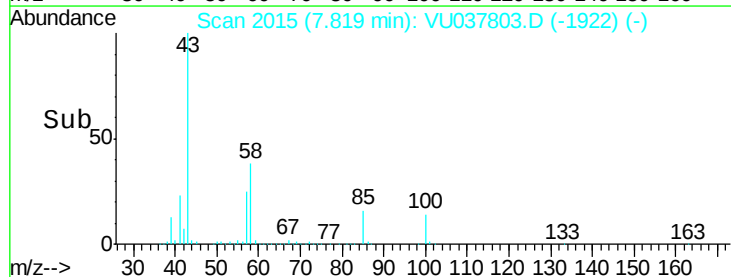
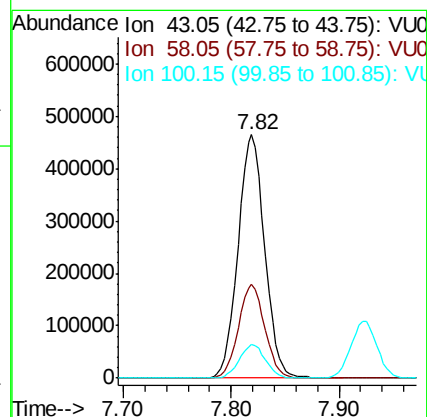
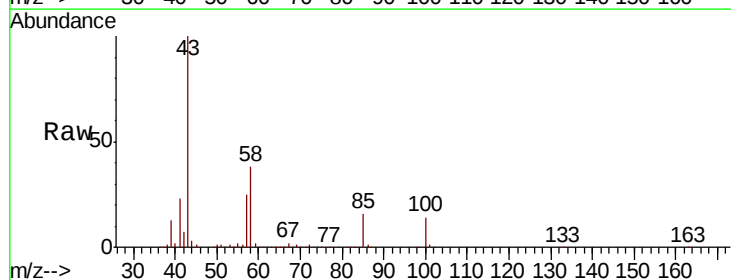
Tot Ion: 75 Resp: 157702  
Ion Ratio Lower Upper  
75 100  
77 30.6 22.2 41.2

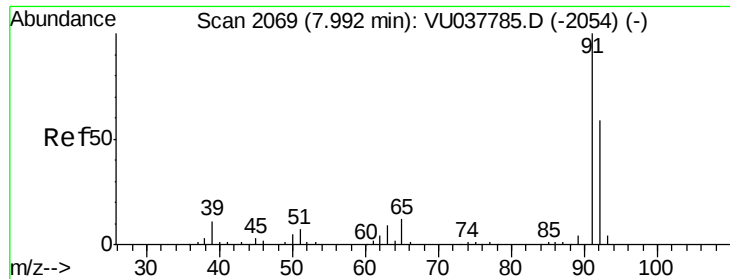


#40

4-Methyl-2-pentanone  
Concen: 50.794 ug/L  
RT: 7.82 min Scan# 2015  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

Tgt Ion: 43 Resp: 799894  
Ion Ratio Lower Upper  
43 100  
58 38.2 31.3 46.9  
100 13.7 11.5 17.3





#42

Toluene

Concen: 4.958 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

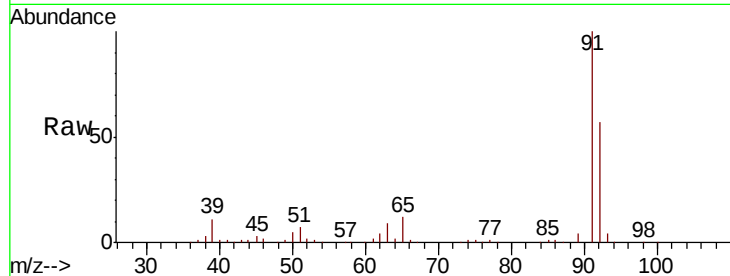
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 91 Resp: 419454

Ion Ratio Lower Upper

91 100

92 57.4 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VU037785.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU037785.D (-2054) (-)

7.99

250000

200000

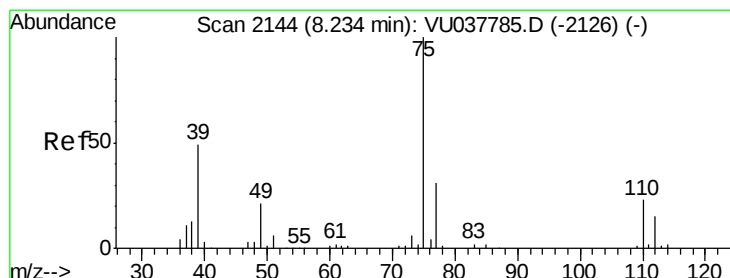
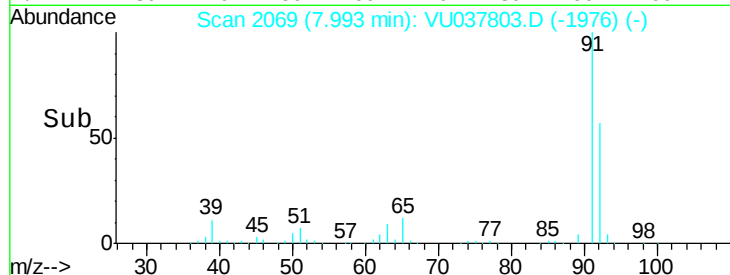
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.665 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037803.D

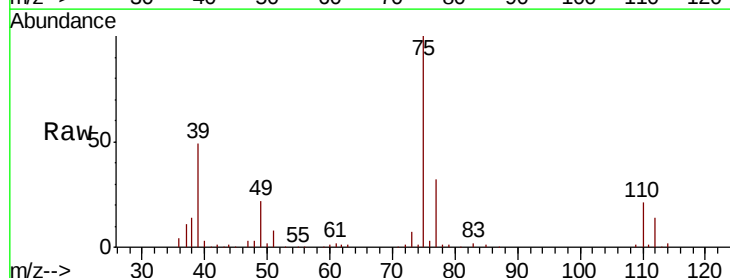
Acq: 18 Apr 2020 04:23

Tgt Ion: 75 Resp: 135782

Ion Ratio Lower Upper

75 100

77 32.4 21.4 39.8



Abundance Ion 75.05 (74.75 to 75.75): VU037785.D (-2126) (-)

Ion 77.05 (76.75 to 77.75): VU037785.D (-2126) (-)

8.23

80000

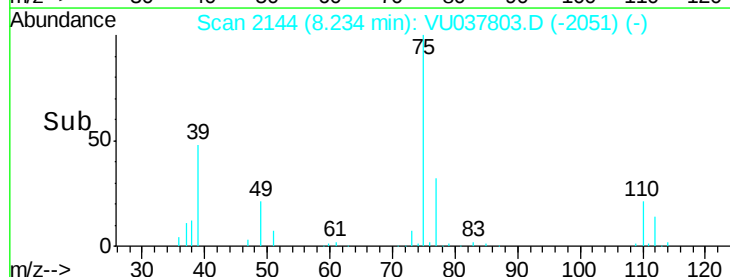
60000

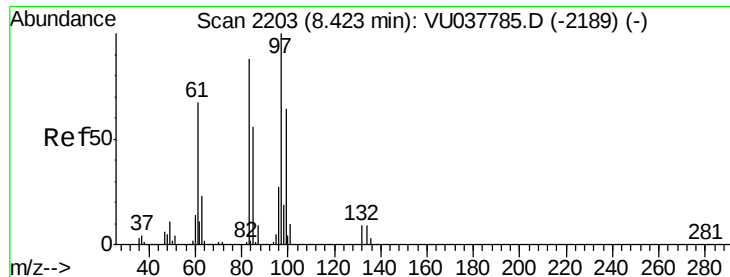
40000

20000

0

Time-->

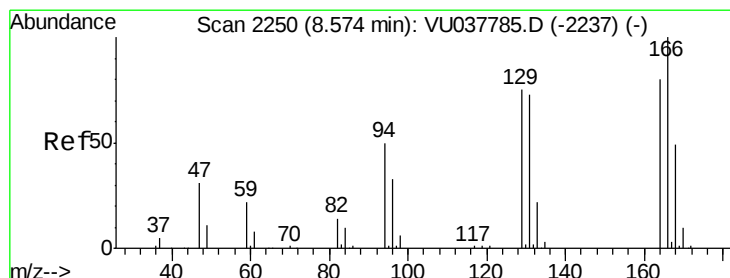
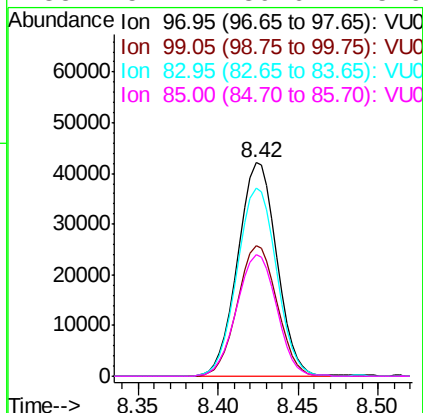
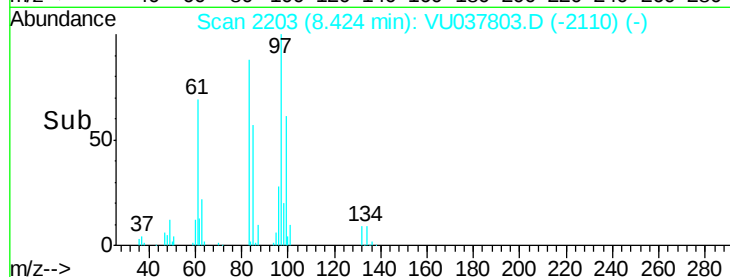
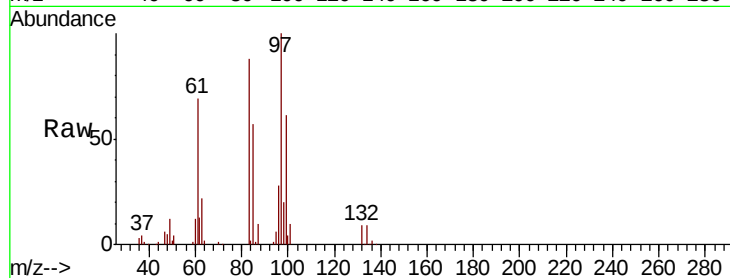




#45  
 1,1,2-Trichloroethane  
 Concen: 4.861 ug/L  
 RT: 8.42 min Scan# 2203  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

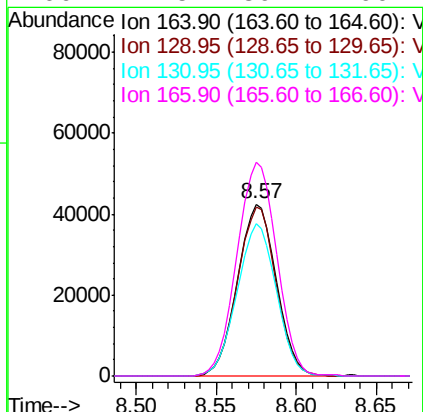
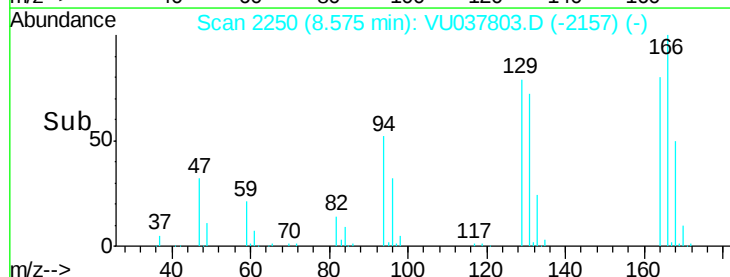
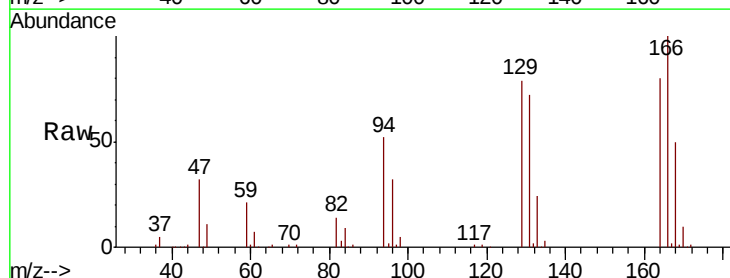
Instrument :  
 MSVOA\_U  
 ClientSampleId :

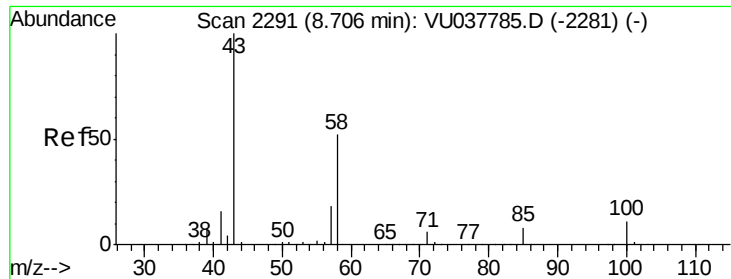
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 70162 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.2  | 43.1  | 80.1  |
| 83       | 88.3  | 62.4  | 116.0 |
| 85       | 57.1  | 39.6  | 73.6  |



#47  
 Tetrachloroethene  
 Concen: 4.928 ug/L  
 RT: 8.57 min Scan# 2250  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 70285 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 98.7  | 68.1  | 126.5 |
| 131      | 89.0  | 65.9  | 122.5 |
| 166      | 124.5 | 89.7  | 166.7 |

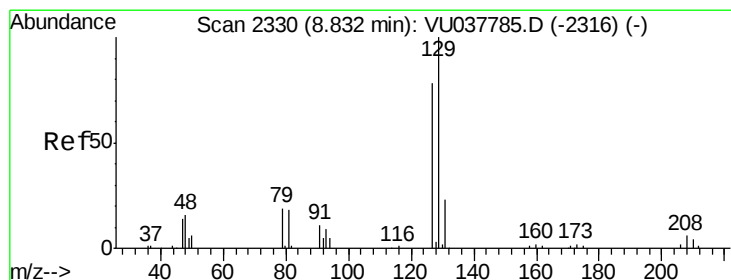
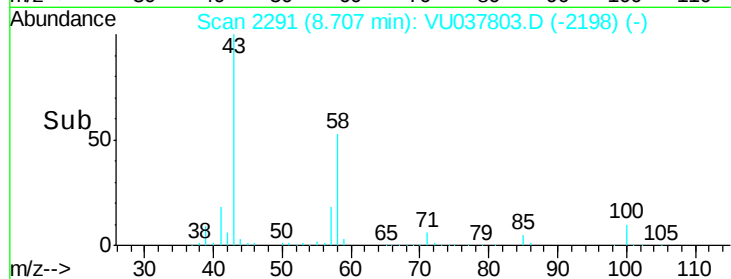
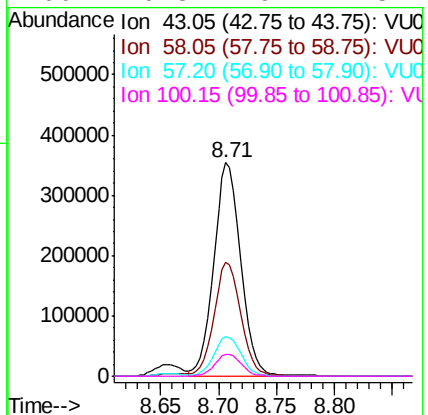
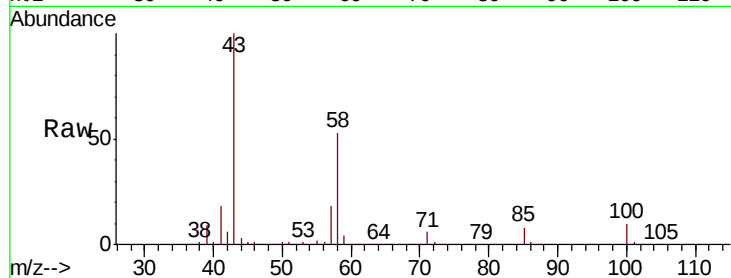




#48  
2-Hexanone  
Concen: 50.947 ug/L  
RT: 8.71 min Scan# 2291  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

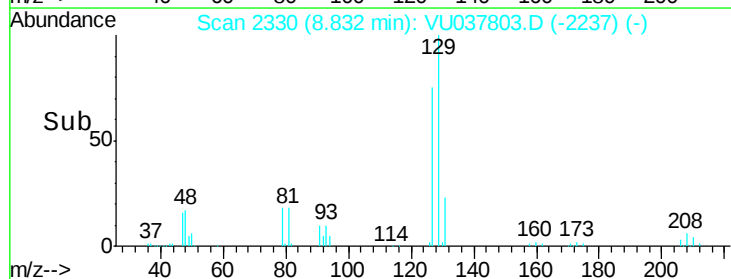
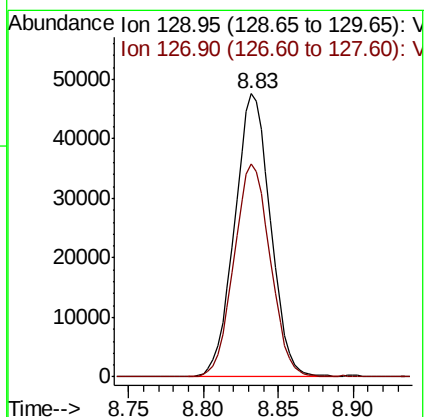
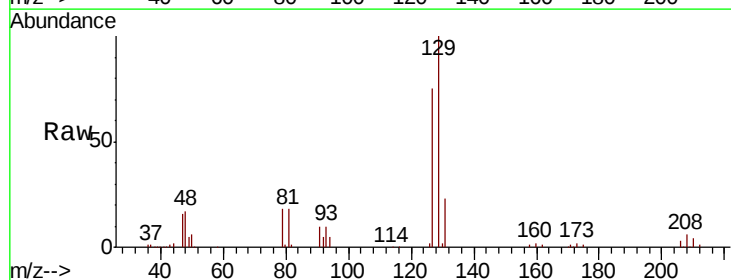
Instrument :  
MSVOA\_U  
ClientSampled :

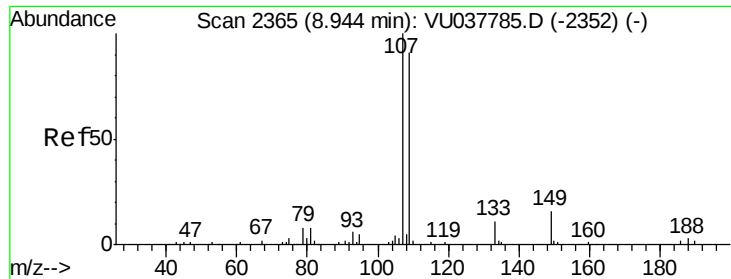
Tot Ion: 43 Resp: 574431  
Ion Ratio Lower Upper  
43 100  
58 53.1 43.6 65.4  
57 18.8 15.4 23.0  
100 10.3 9.1 13.7



#49  
Dibromochloromethane  
Concen: 4.817 ug/L  
RT: 8.83 min Scan# 2330  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

Tgt Ion: 129 Resp: 79465  
Ion Ratio Lower Upper  
129 100  
127 75.2 53.3 98.9

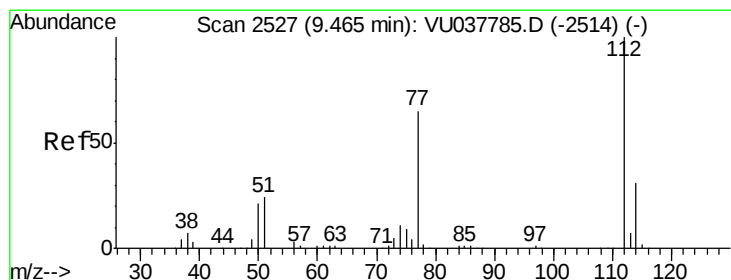
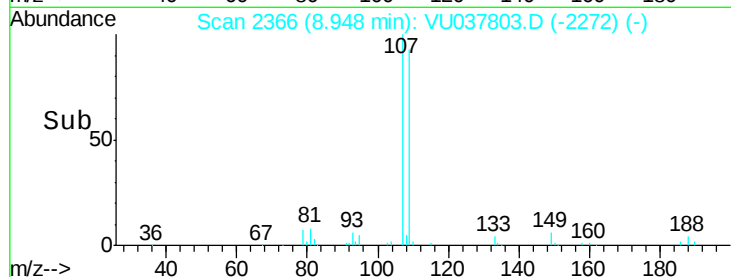
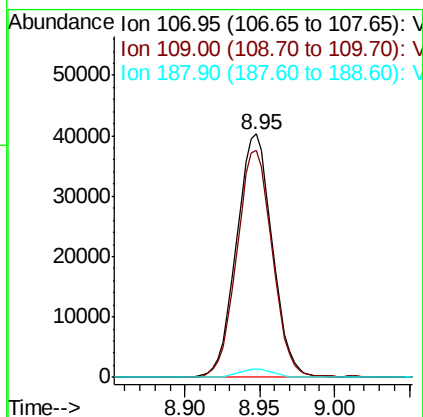
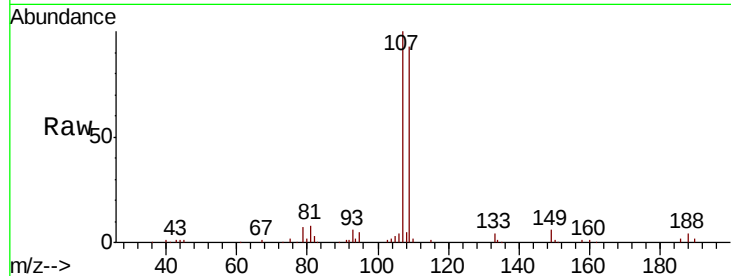




#50  
1,2-Dibromoethane  
Concen: 4.842 ug/L  
RT: 8.95 min Scan# 2366  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

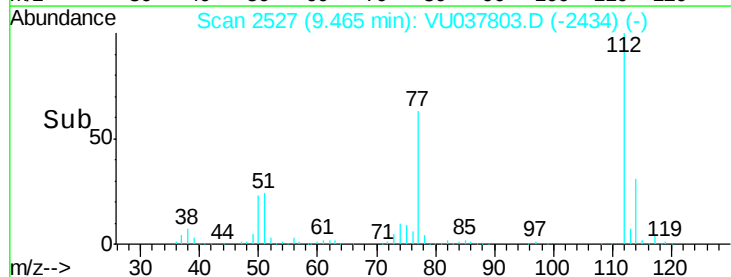
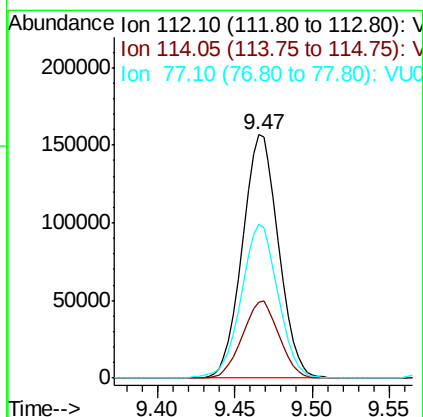
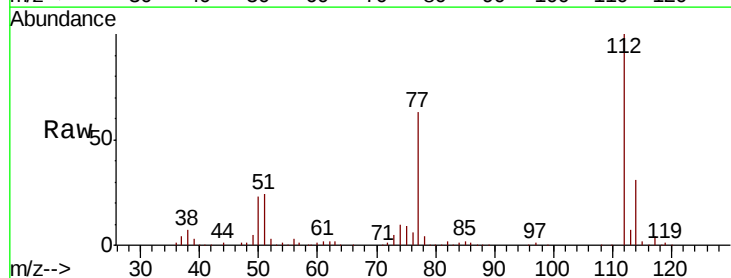
Instrument :  
MSVOA\_U  
ClientSampled :

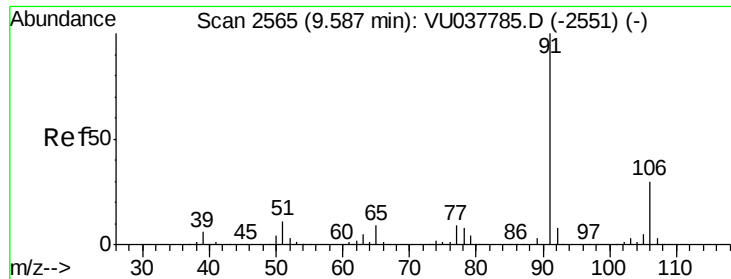
Tot Ion:107 Resp: 67212  
Ion Ratio Lower Upper  
107 100  
109 93.1 66.3 123.1  
188 3.5 2.5 3.7



#51  
Chlorobenzene  
Concen: 4.944 ug/L  
RT: 9.47 min Scan# 2527  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

Tgt Ion:112 Resp: 255173  
Ion Ratio Lower Upper  
112 100  
114 31.3 22.6 42.0  
77 63.3 50.2 75.4

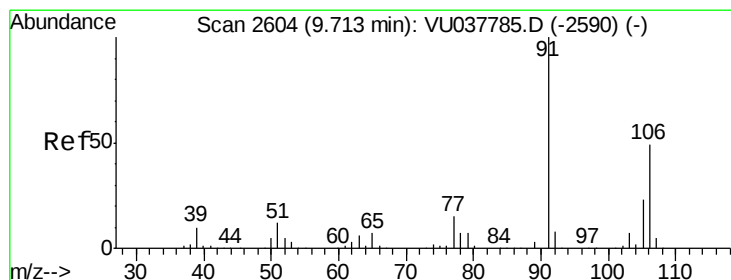
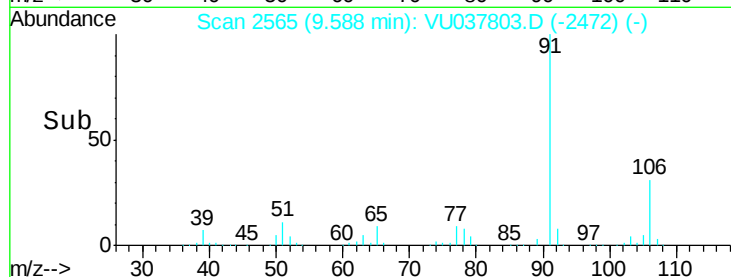
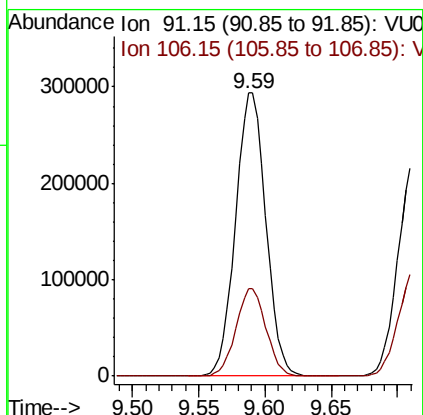
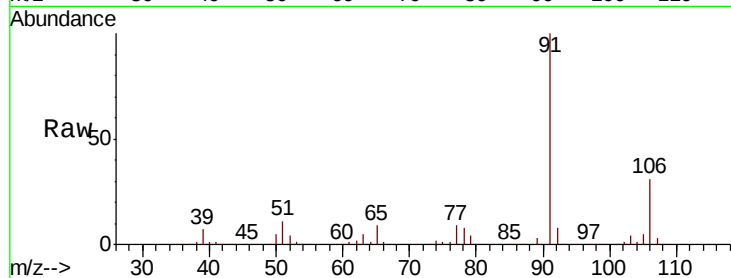




#52  
Ethylbenzene  
Concen: 4.957 ug/L  
RT: 9.59 min Scan# 2565  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

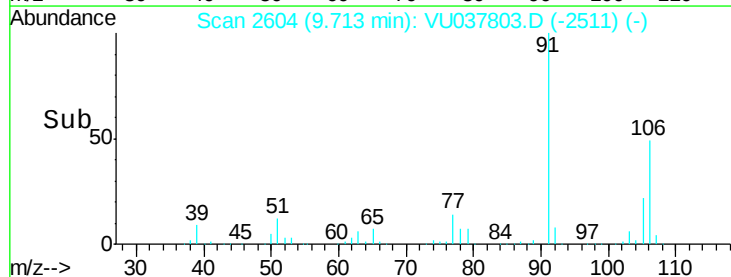
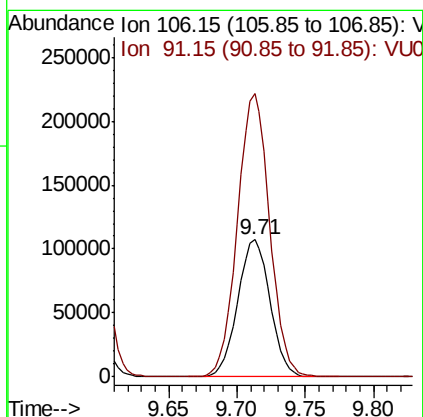
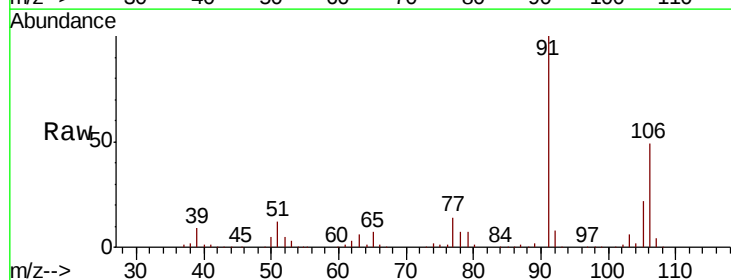
Instrument :  
MSVOA\_U  
ClientSampleId :

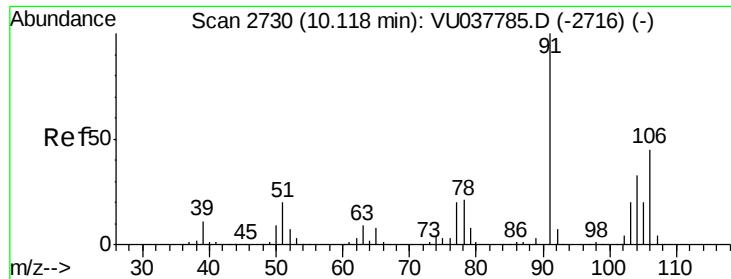
Tot Ion: 91 Resp: 466522  
Ion Ratio Lower Upper  
91 100  
106 30.9 21.7 40.3



#53  
m,p-Xylene  
Concen: 4.951 ug/L  
RT: 9.71 min Scan# 2604  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

Tgt Ion: 106 Resp: 176355  
Ion Ratio Lower Upper  
106 100  
91 206.1 143.9 267.3

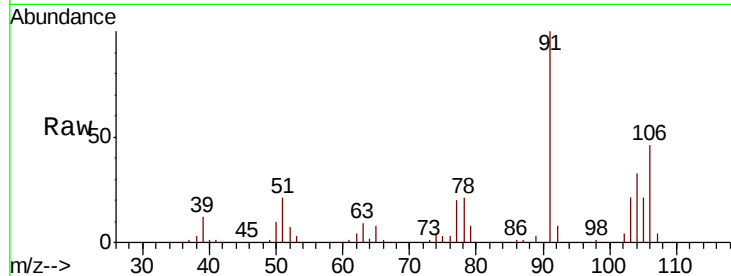




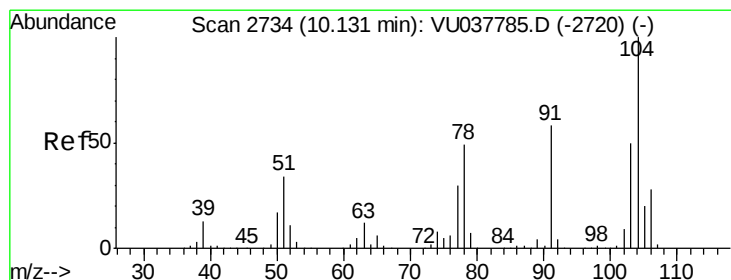
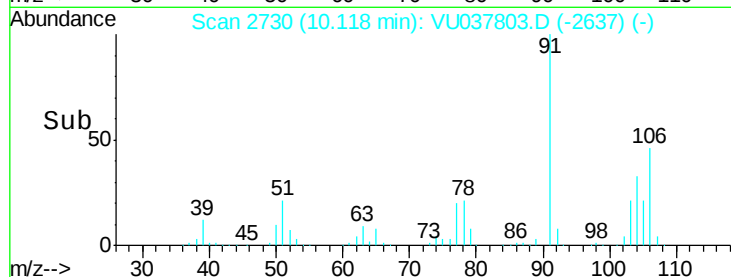
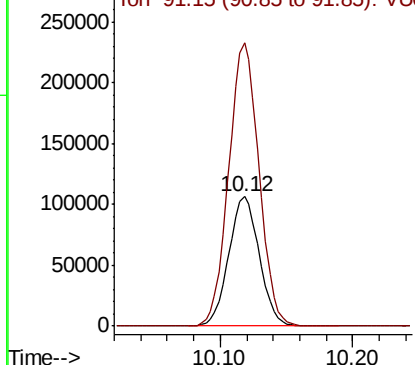
#54  
o-Xylene  
Concen: 4.861 ug/L  
RT: 10.12 min Scan# 2730  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion:106 Resp: 170417  
Ion Ratio Lower Upper  
106 100  
91 218.4 151.1 280.7

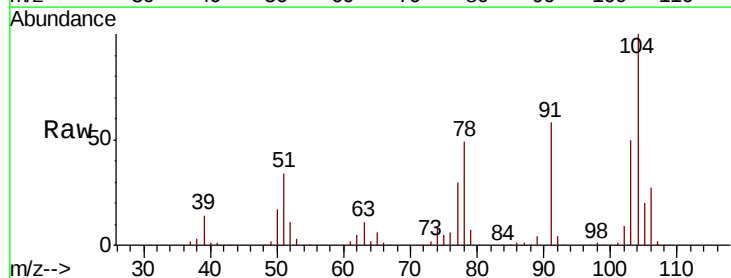


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

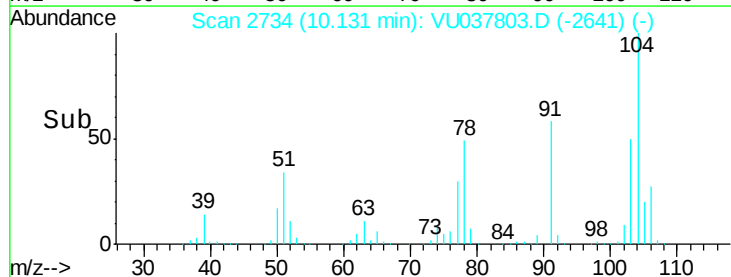
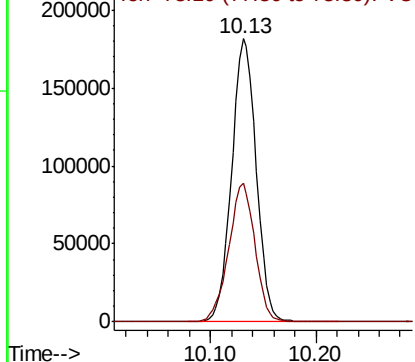


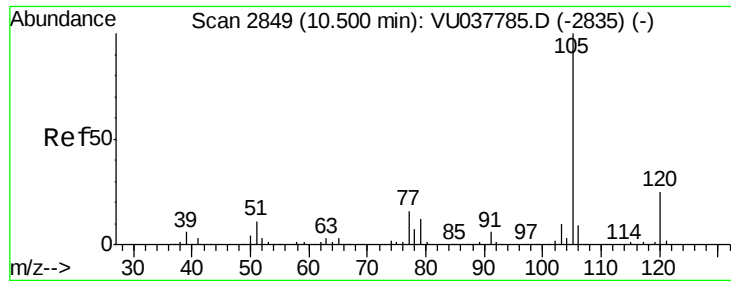
#55  
Styrene  
Concen: 4.871 ug/L  
RT: 10.13 min Scan# 2734  
Delta R.T. 0.00 min  
Lab File: VU037803.D  
Acq: 18 Apr 2020 04:23

Tgt Ion:104 Resp: 291942  
Ion Ratio Lower Upper  
104 100  
78 48.8 32.5 60.3



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.020 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Instrument :

MSVOA\_U

ClientSampleId :

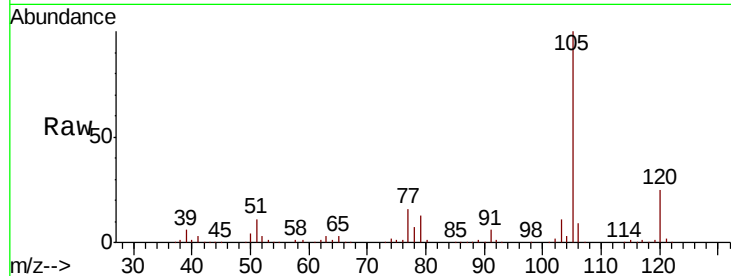
Tot Ion:105 Resp: 461654

Ion Ratio Lower Upper

105 100

120 24.8 20.6 31.0

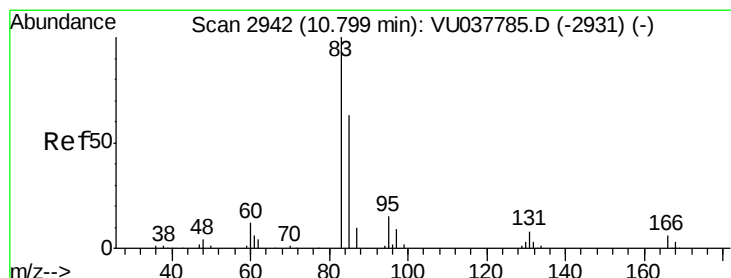
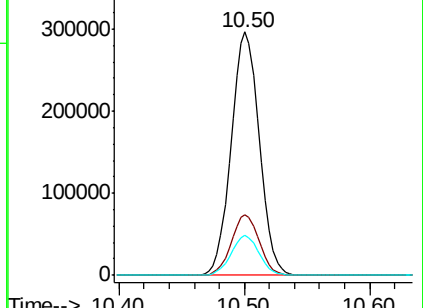
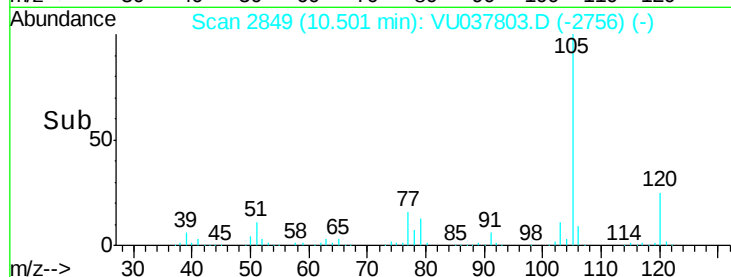
77 16.4 13.2 19.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.954 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

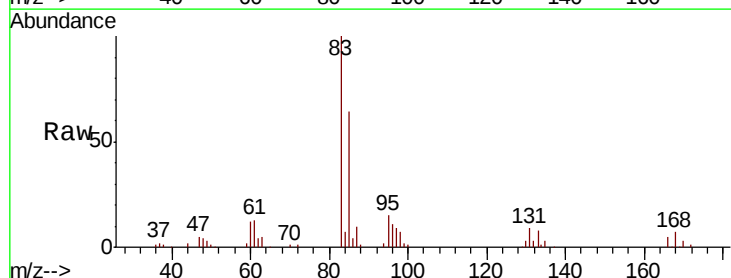
Tgt Ion: 83 Resp: 93092

Ion Ratio Lower Upper

83 100

85 64.2 45.3 84.1

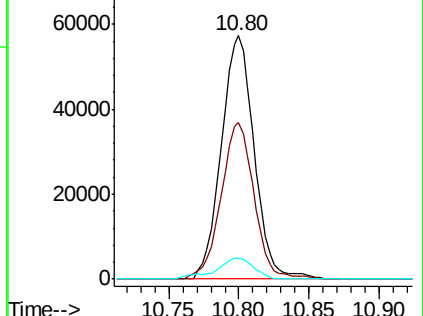
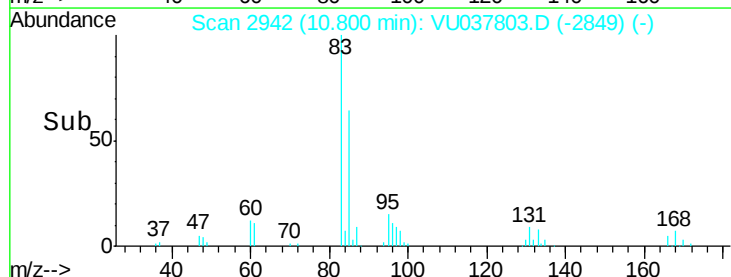
131 8.7 7.4 11.2

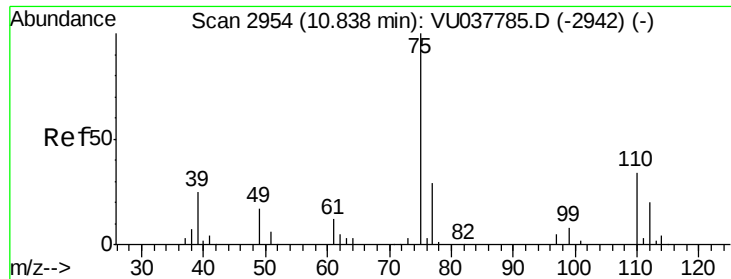


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.895 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Instrument :

MSVOA\_U

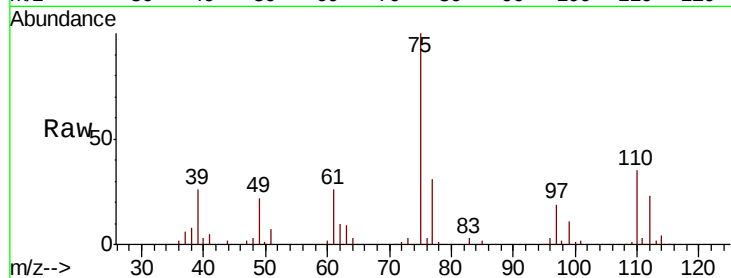
ClientSampleId :

Tot Ion: 75 Resp: 68621

Ion Ratio Lower Upper

75 100

77 32.3 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU037785.D (-2942) (-)

Ion 77.00 (76.70 to 77.70): VU037785.D (-2942) (-)

10.84

50000

40000

30000

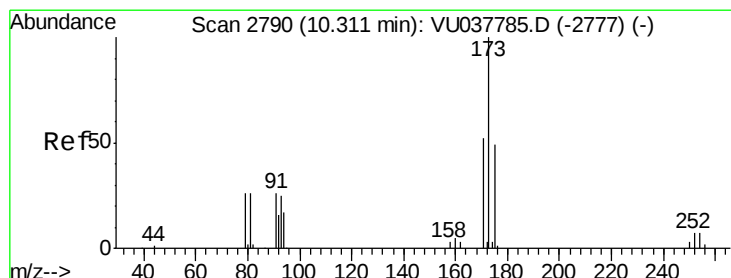
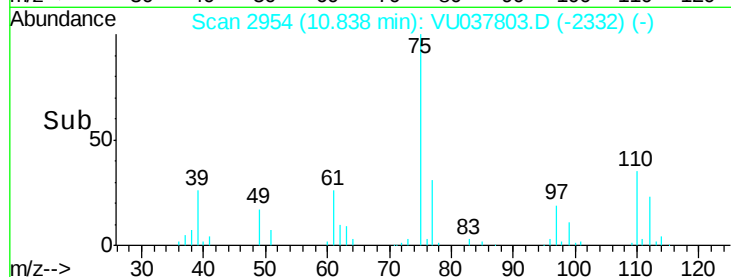
20000

10000

0

Time-->

10.80 10.85 10.90



#61

Bromoform

Concen: 4.604 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. -0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

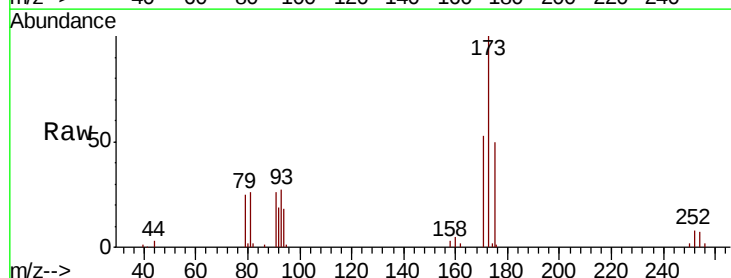
Tgt Ion:173 Resp: 45100

Ion Ratio Lower Upper

173 100

175 47.7 37.6 56.4

254 6.9 5.8 8.8



Abundance Ion 172.90 (172.60 to 173.60): VU037785.D (-2777) (-)

Ion 174.90 (174.60 to 175.60): VU037785.D (-2777) (-)

Ion 253.75 (253.45 to 254.45): VU037785.D (-2777) (-)

10.31

30000

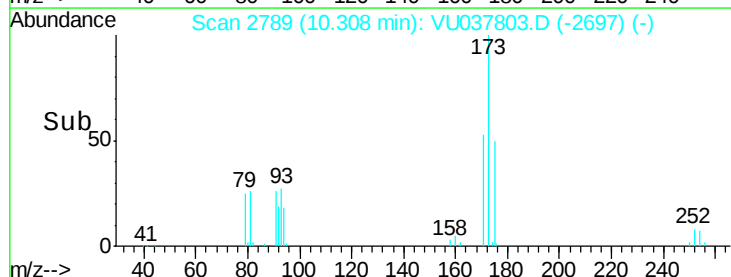
20000

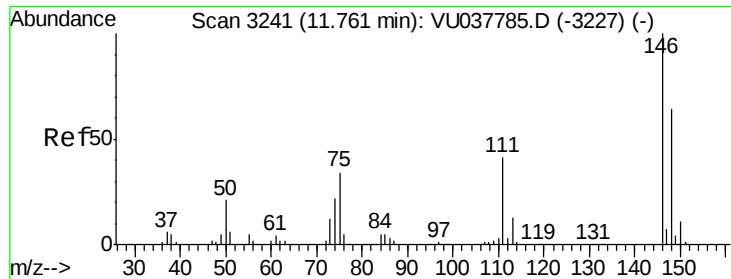
10000

0

Time-->

10.25 10.30 10.35

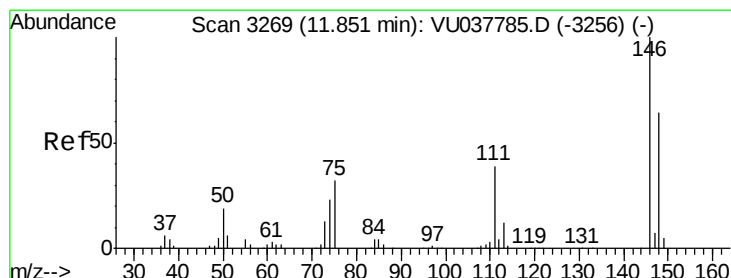
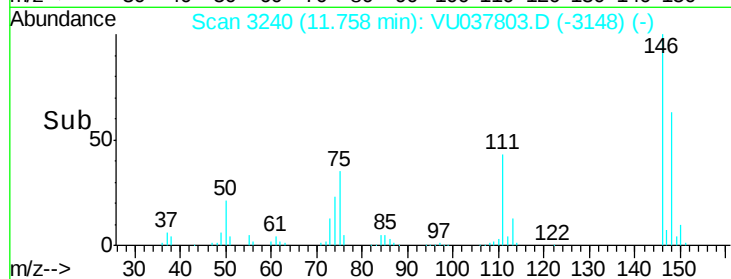
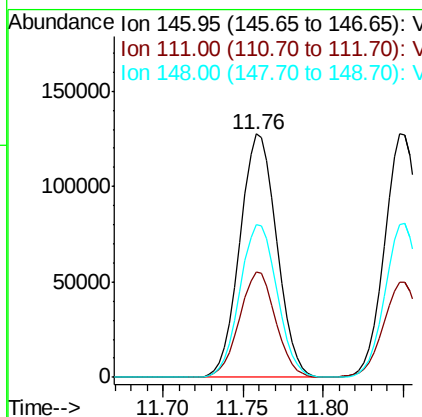
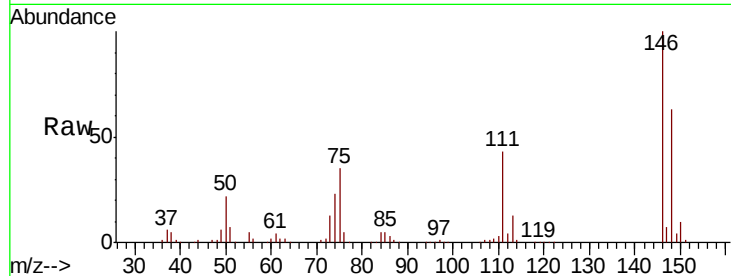




#62  
 1,3-Dichlorobenzene  
 Concen: 4.854 ug/L  
 RT: 11.76 min Scan# 3240  
 Delta R.T. -0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

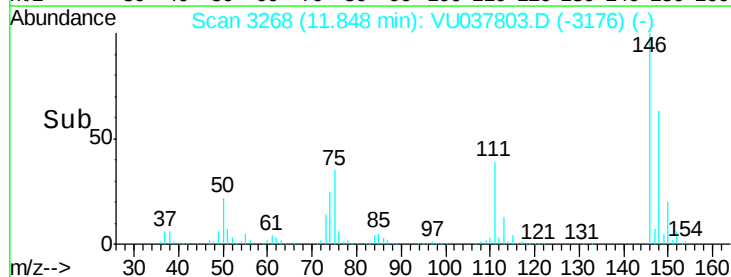
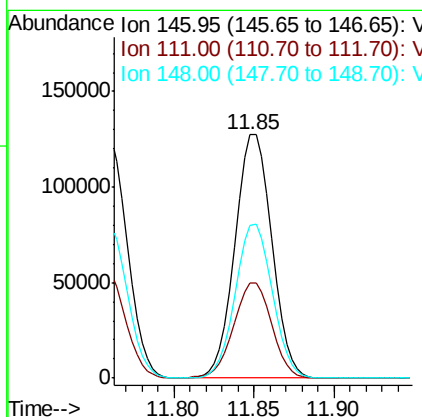
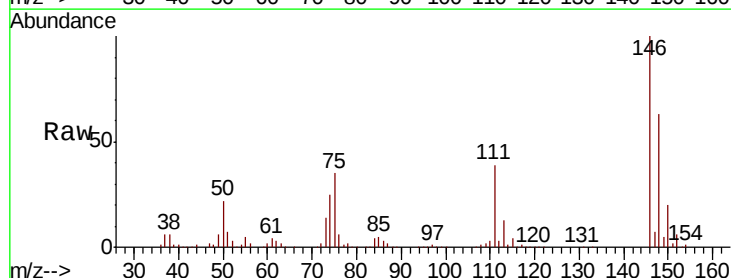
Instrument :  
 MSVOA\_U  
 ClientSampleId :

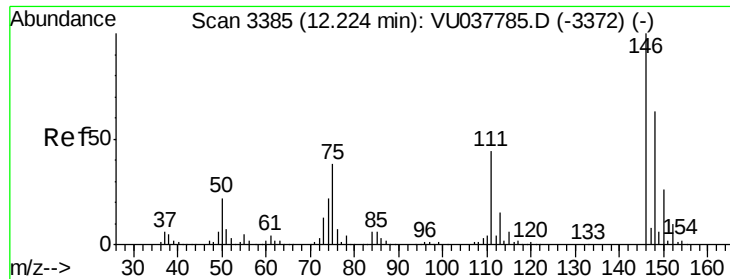
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.4  | 29.8  | 55.3  |
| 148     | 62.8  | 44.5  | 82.7  |



#63  
 1,4-Dichlorobenzene  
 Concen: 4.822 ug/L  
 RT: 11.85 min Scan# 3268  
 Delta R.T. -0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.2  | 28.4  | 52.8  |
| 148     | 62.8  | 44.9  | 83.3  |





#65

1,2-Dichlorobenzene

Concen: 4.845 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Instrument :

MSVOA\_U

ClientSampled :

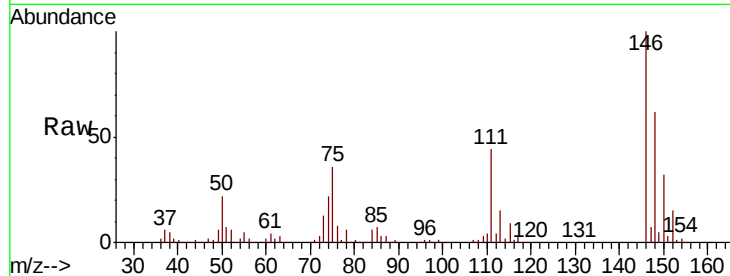
Tot Ion:146 Resp: 188343

Ion Ratio Lower Upper

146 100

111 43.8 35.0 52.6

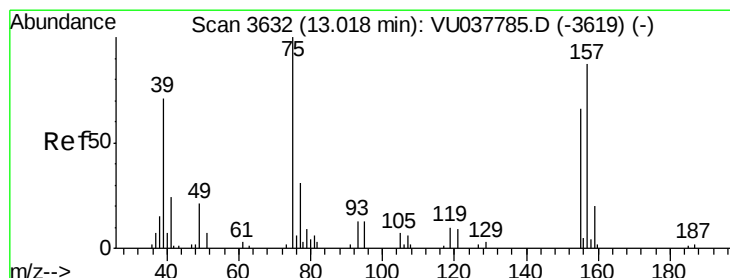
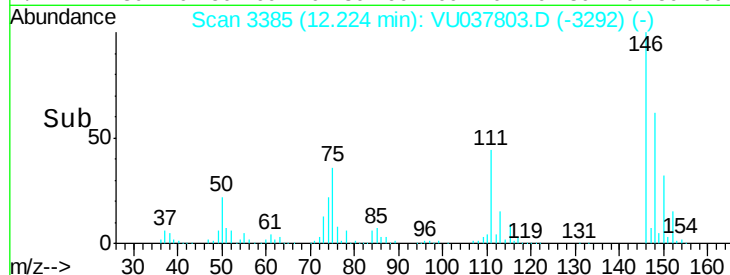
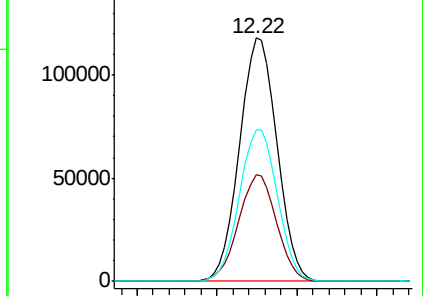
148 62.4 51.5 77.3



Abundance Ion 145.95 (145.65 to 146.65): 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: 4.545 ug/L

RT: 13.02 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

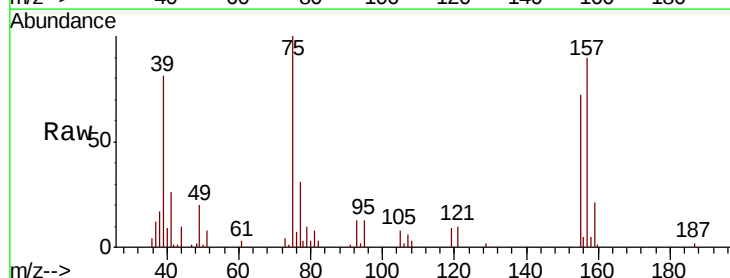
Tgt Ion: 75 Resp: 16377

Ion Ratio Lower Upper

75 100

155 71.8 57.9 86.9

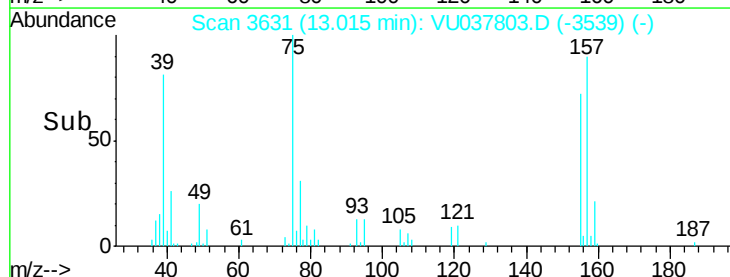
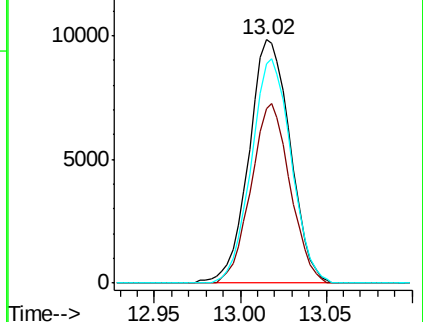
157 90.1 79.8 119.8

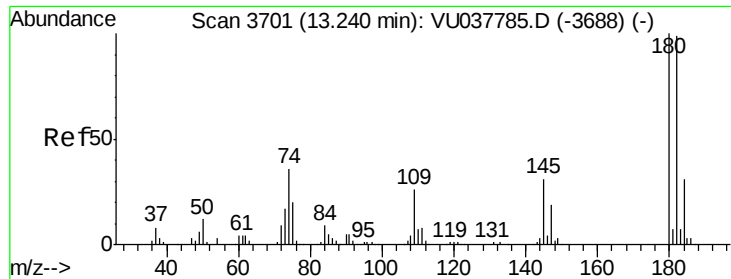


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

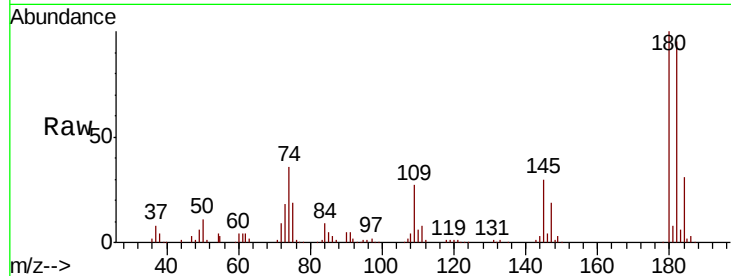




#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.815 ug/L  
 RT: 13.24 min Scan# 3701  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

Instrument :  
 MSVOA\_U  
 ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 180   | Resp: | 145812 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.7  | 77.1  | 115.7  |
| 184      | 30.9  | 24.7  | 37.1   |
| 145      | 30.9  | 24.6  | 37.0   |



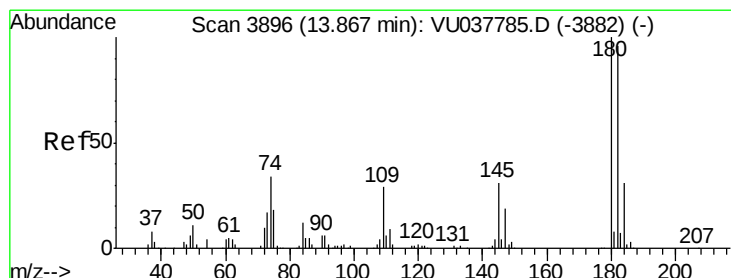
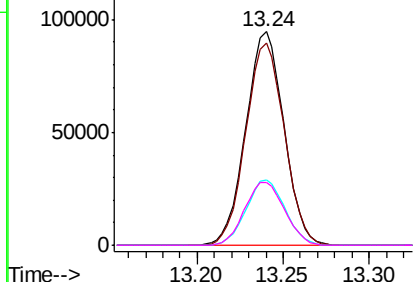
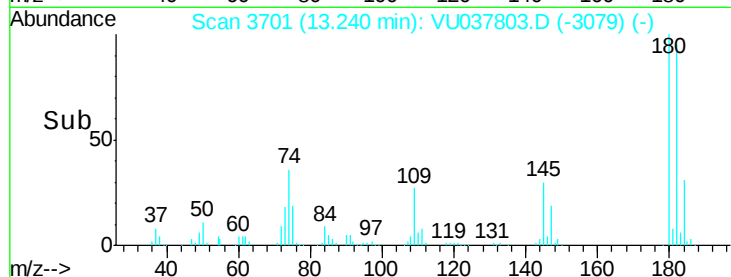
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

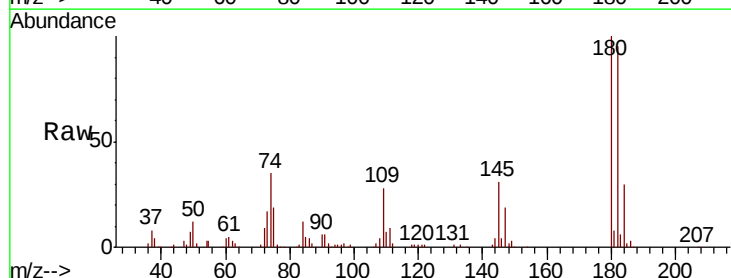
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.760 ug/L  
 RT: 13.87 min Scan# 3896  
 Delta R.T. 0.00 min  
 Lab File: VU037803.D  
 Acq: 18 Apr 2020 04:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 132289 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 93.6  | 76.4  | 114.6  |
| 145      | 30.6  | 25.1  | 37.7   |

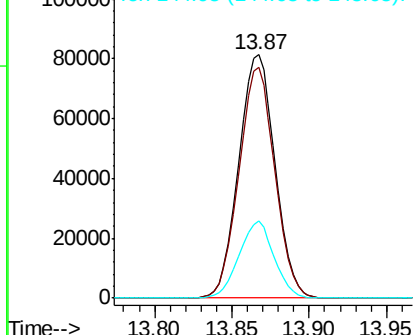
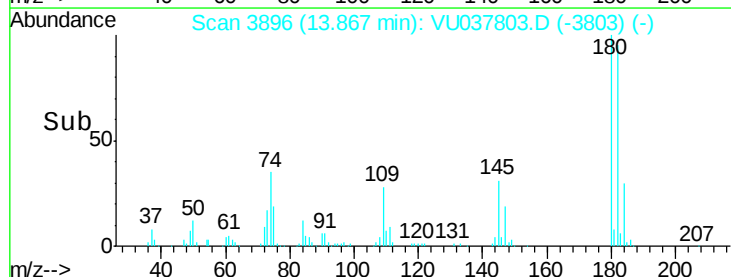


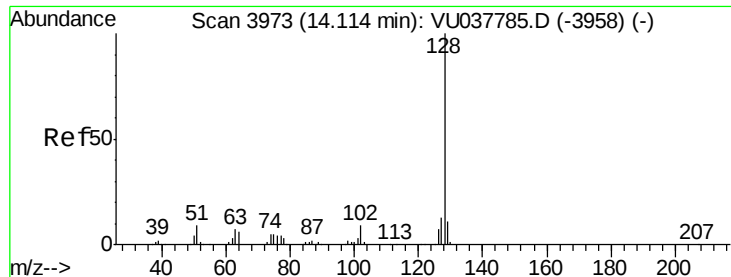
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.546 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

Instrument :

MSVOA\_U

ClientSampleId :

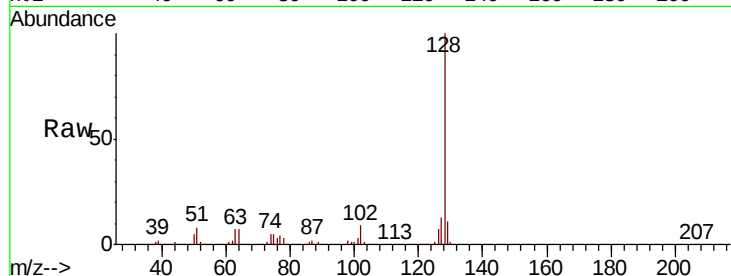
Tot Ion:128 Resp: 255899

Ion Ratio Lower Upper

128 100

129 10.6 8.6 12.8

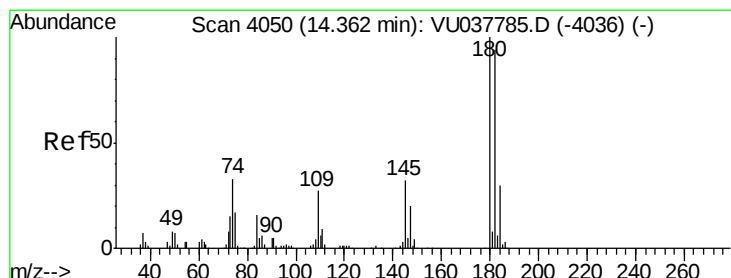
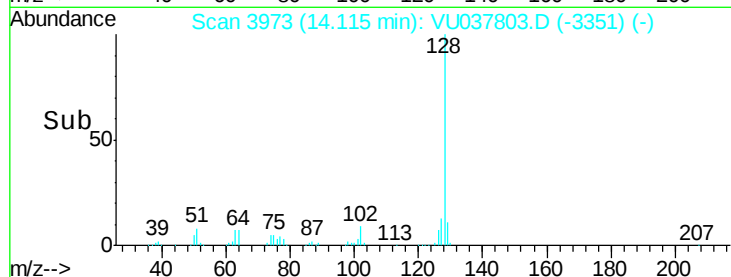
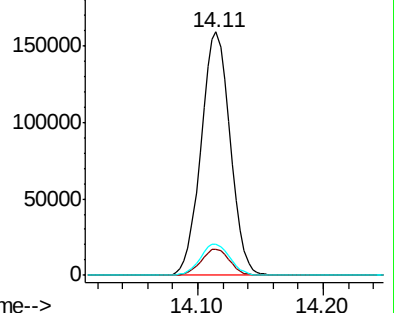
127 13.4 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.768 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.00 min

Lab File: VU037803.D

Acq: 18 Apr 2020 04:23

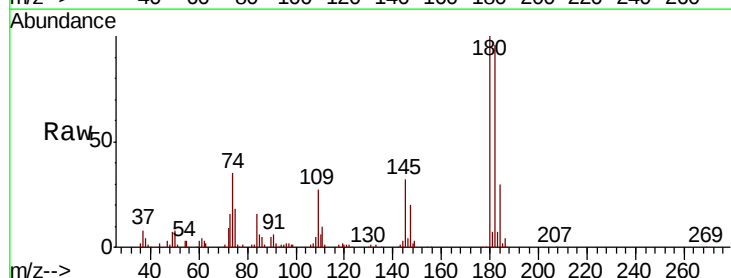
Tgt Ion:180 Resp: 118083

Ion Ratio Lower Upper

180 100

182 95.8 76.6 115.0

145 32.5 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

