

Data File : VU036931.D  
Acq On : 27 Feb 2020 09:52  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05060

Quant Time: Feb 27 21:57:24 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Feb 27 17:10:27 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 253050   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 241988   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 106908   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 98282    | 46.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.50%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 87381    | 49.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 99.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 172233   | 48.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.80%  |
| 21) 2-Butanone-d5              | 4.67    | 46    | 149639   | 104.98   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 104.98% |
| 24) Chloroform-d               | 5.11    | 84    | 169570   | 52.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.50% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 111083   | 50.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.16% |
| 32) Benzene-d6                 | 5.76    | 84    | 354035   | 50.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.18% |
| 36) 1,2-Dichloropropane-d6     | 6.73    | 67    | 114881   | 50.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 101.34% |
| 41) Toluene-d8                 | 7.93    | 98    | 320224   | 49.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.64%  |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 51203    | 48.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.20%  |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 114263   | 103.08   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.08% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78   | 84    | 166662   | 52.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.28% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 105532   | 50.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.00% |

#### Target Compounds

|                                |      |     |        |         | Qvalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 117289 | 54.645  | ug/L 99  |
| 3) Chloromethane               | 1.54 | 50  | 126005 | 51.027  | ug/L 100 |
| 5) Vinyl chloride              | 1.62 | 62  | 134917 | 52.969  | ug/L 100 |
| 6) Bromomethane                | 1.87 | 94  | 74485  | 56.996  | ug/L 100 |
| 8) Chloroethane                | 1.95 | 64  | 81977  | 53.691  | ug/L 98  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 145429 | 53.835  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 89677  | 55.494  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 85993  | 52.613  | ug/L 83  |
| 13) Acetone                    | 2.65 | 43  | 173760 | 118.510 | ug/L 99  |
| 14) Carbon disulfide           | 2.82 | 76  | 265356 | 51.313  | ug/L 99  |
| 15) Methyl Acetate             | 2.98 | 43  | 113051 | 50.586  | ug/L 99  |
| 16) Methylene chloride         | 3.08 | 84  | 104238 | 52.288  | ug/L 100 |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 91041  | 51.852  | ug/L 99  |
| 18) Methyl tert-butyl Ether    | 3.40 | 73  | 292043 | 51.169  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 178291 | 52.259  | ug/L 97  |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 103322 | 52.628  | ug/L 97  |
| 22) 2-Butanone                 | 4.75 | 43  | 196275 | 111.012 | ug/L 99  |

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Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05060

Quant Time: Feb 27 21:57:24 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Feb 27 17:10:27 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 5.02  | 128  | 48051    | 54.045  | ug/L  | 98       |
| 25) Chloroform                 | 5.13  | 83   | 172668   | 52.453  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.83  | 62   | 141126   | 52.660  | ug/L  | 98       |
| 29) Cyclohexane                | 5.43  | 56   | 164539   | 51.239  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane      | 5.36  | 97   | 135979   | 52.411  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 5.56  | 117  | 107425   | 52.826  | ug/L  | 99       |
| 33) Benzene                    | 5.81  | 78   | 403468   | 52.777  | ug/L  | 100      |
| 34) Trichloroethene            | 6.57  | 95   | 99044    | 52.712  | ug/L  | 97       |
| 35) Methylcyclohexane          | 6.80  | 83   | 174013   | 53.415  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.83  | 63   | 105742   | 51.371  | ug/L  | 100      |
| 38) Bromodichloromethane       | 7.14  | 83   | 127538   | 52.491  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.64  | 75   | 164041   | 51.735  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.82  | 43   | 305472   | 100.714 | ug/L  | 100      |
| 42) Toluene                    | 8.00  | 91   | 432063   | 53.049  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 8.24  | 75   | 143690   | 52.240  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 96316    | 52.619  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.58  | 164  | 66060    | 53.369  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.71  | 43   | 254426   | 105.118 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.84  | 129  | 91677    | 52.767  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.95  | 107  | 100411   | 52.458  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.47  | 112  | 253246   | 52.477  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.59  | 91   | 458829   | 51.967  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.72  | 106  | 172171   | 53.160  | ug/L  | 97       |
| 54) o-xylene                   | 10.12 | 106  | 168644   | 52.209  | ug/L  | 100      |
| 55) Styrene                    | 10.13 | 104  | 283121   | 53.617  | ug/L  | 98       |
| 56) Isopropylbenzene           | 10.50 | 105  | 434564   | 52.379  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 170178   | 52.004  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.84 | 75   | 136415   | 51.517  | ug/L  | 100      |
| 61) Bromoform                  | 10.31 | 173  | 62252    | 51.504  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.76 | 146  | 180040   | 51.913  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.85 | 146  | 179029   | 52.250  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 12.23 | 146  | 179017   | 51.698  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 35771    | 52.070  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 13.25 | 180  | 119509   | 54.290  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.88 | 180  | 88721    | 53.794  | ug/L  | 99       |
| 69) Naphthalene                | 14.12 | 128  | 134075   | 46.052  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 14.37 | 180  | 86300    | 52.363  | ug/L  | 100      |

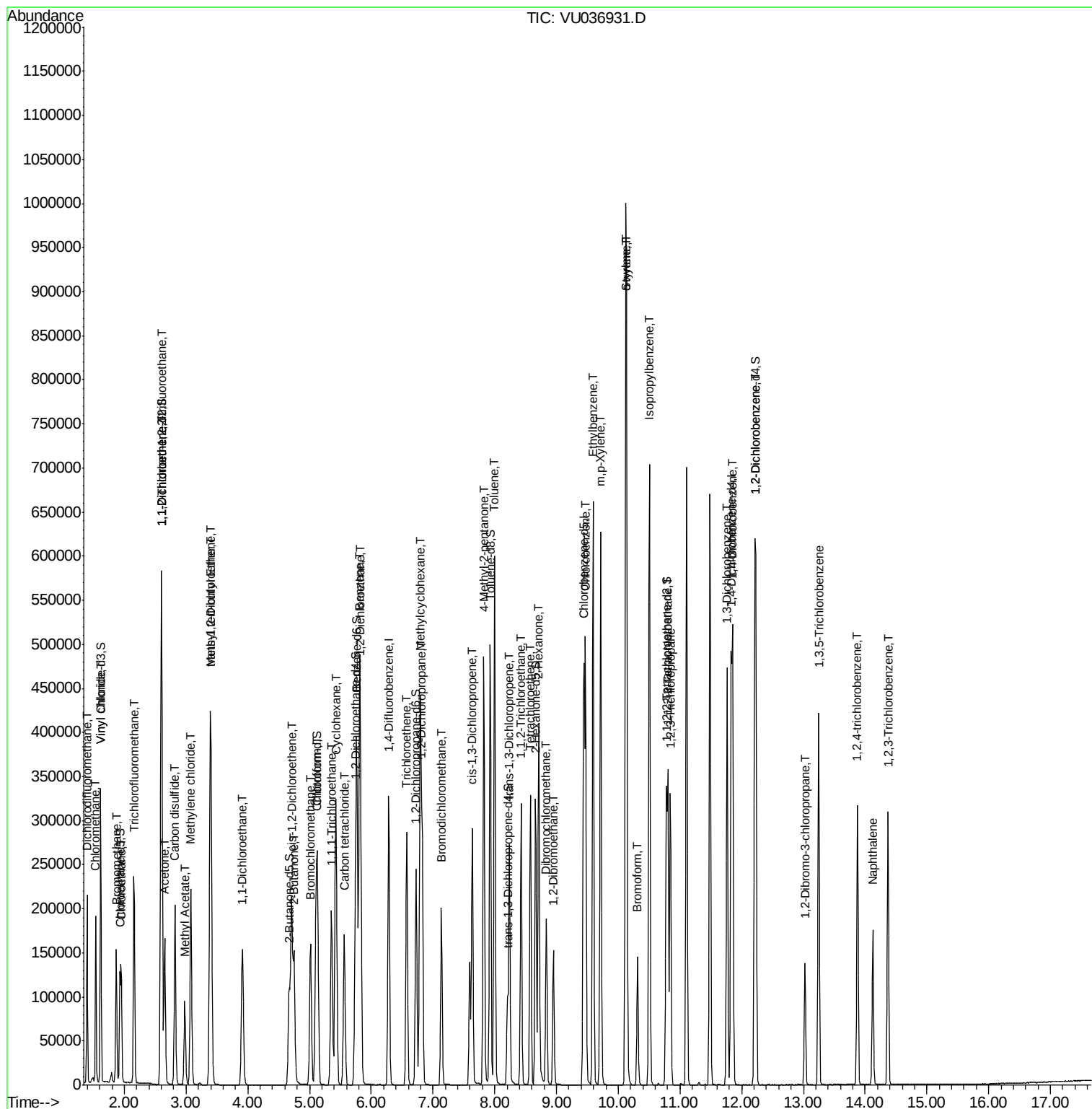
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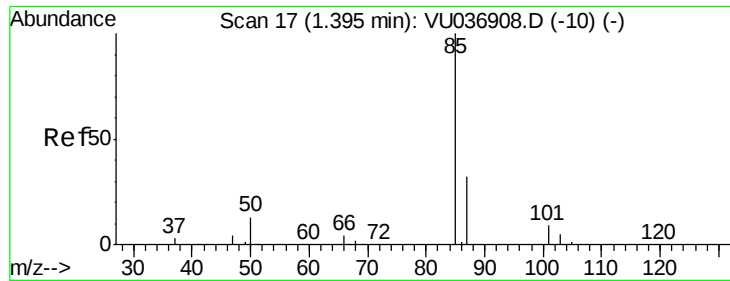
Data File : VU036931.D

```
Acq On       : 27 Feb 2020   09:52
Operator     : JC/MD
Sample       : VSTDCCC050
Misc         : 5.0mL/MSVOA_U/WATER
ALS Vial     : 2      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
VSTD05060

Quant Time: Feb 27 21:57:24 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Feb 27 17:10:27 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 54.645 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

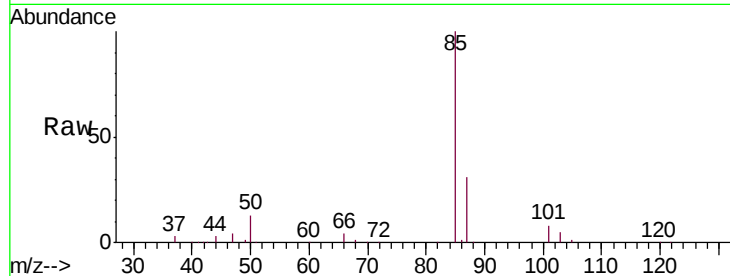
VSTD05060

Tgt Ion: 85 Resp: 117289

Ion Ratio Lower Upper

85 100

87 31.6 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU036931.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU036931.D (-1) (-)

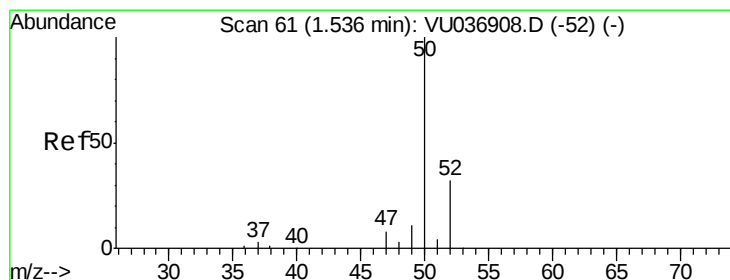
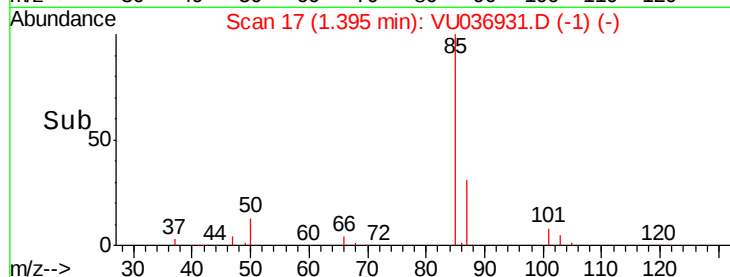
1.39

100000

50000

0

Time-->



#3

Chloromethane

Concen: 51.027 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036931.D

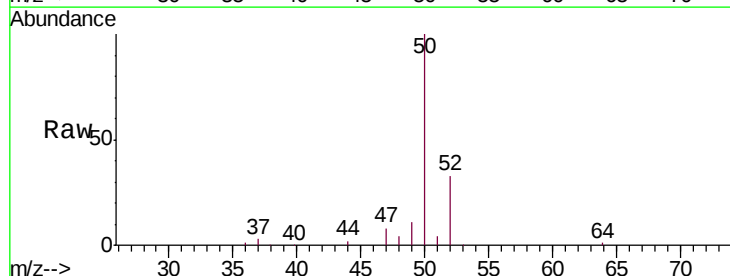
Acq: 27 Feb 2020 09:52

Tgt Ion: 50 Resp: 126005

Ion Ratio Lower Upper

50 100

52 32.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU036931.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU036931.D (-1) (-)

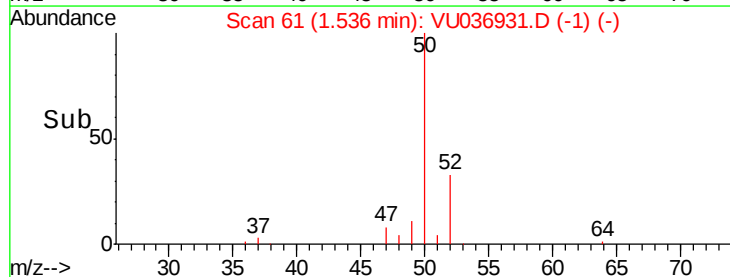
1.54

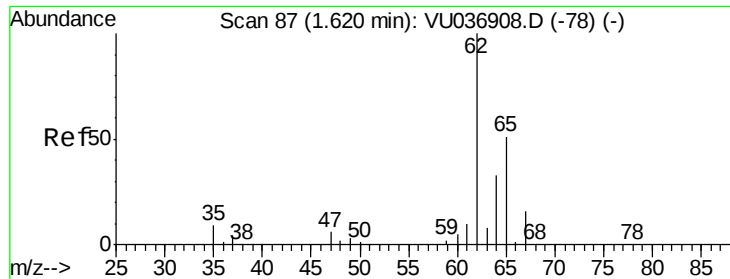
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 52.969 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

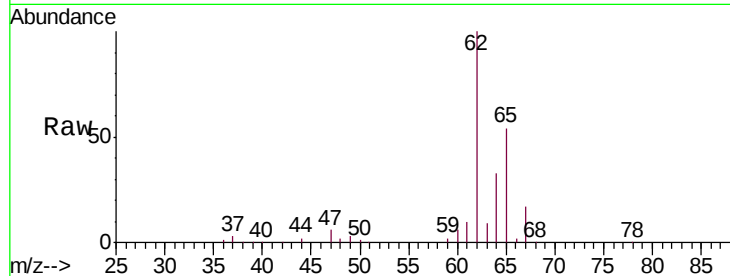
VSTD05060

Tgt Ion: 62 Resp: 134917

Ion Ratio Lower Upper

62 100

64 33.3 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU036931.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU036931.D (-78) (-)

1.62

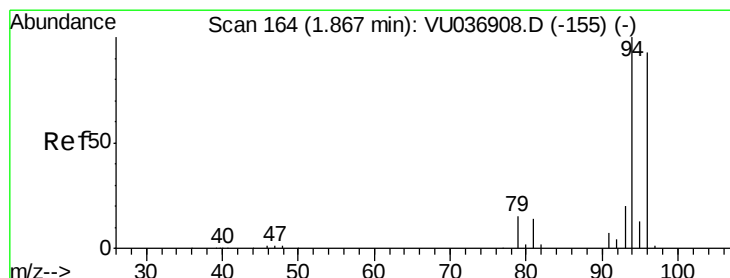
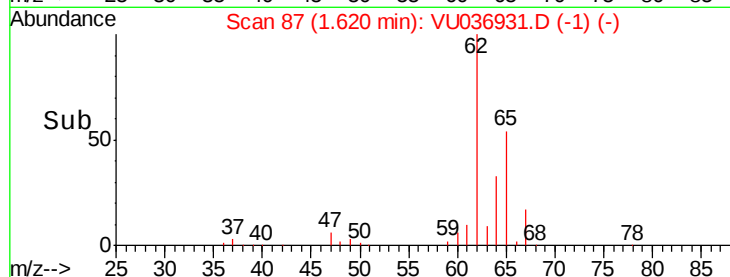
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 56.996 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU036931.D

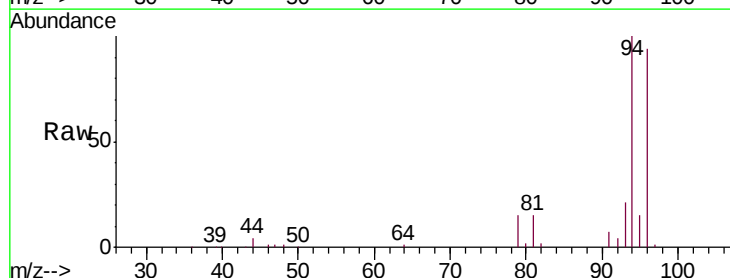
Acq: 27 Feb 2020 09:52

Tgt Ion: 94 Resp: 74485

Ion Ratio Lower Upper

94 100

96 94.1 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU036931.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU036931.D (-155) (-)

1.87

60000

50000

40000

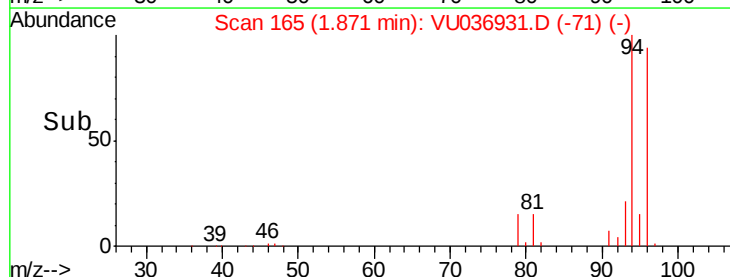
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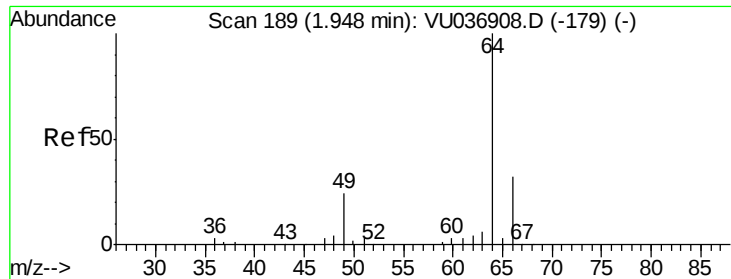
20000

10000

0

Time-->





#8

Chloroethane

Concen: 53.691 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

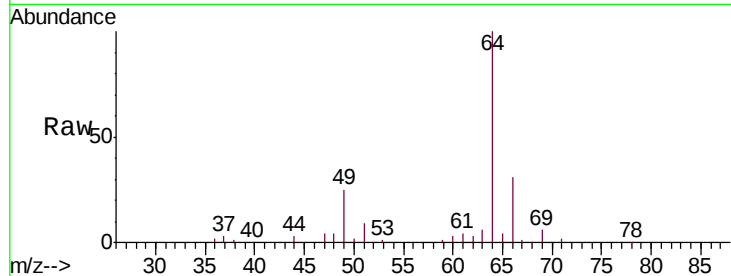
VSTD05060

Tgt Ion: 64 Resp: 81977

Ion Ratio Lower Upper

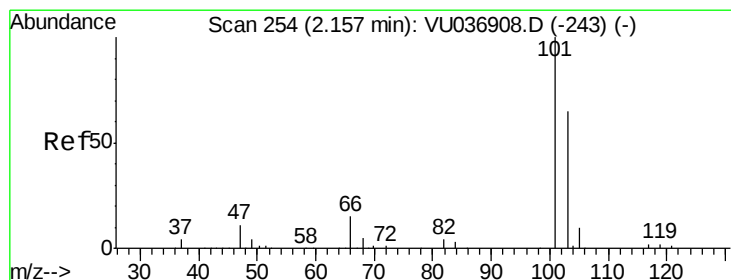
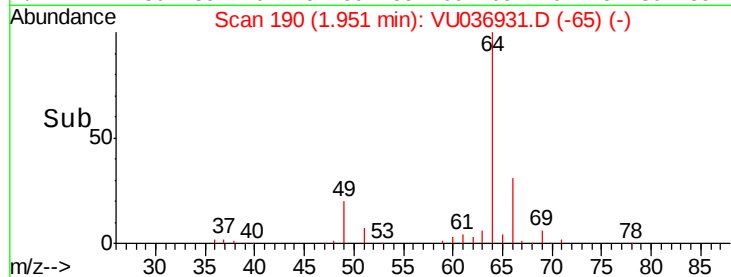
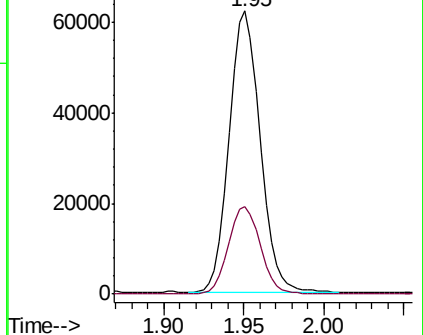
64 100

66 31.0 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VU036931.D (-179) (-)

Ion 66.00 (65.70 to 66.70): VU036931.D (-179) (-)



#9

Trichlorofluoromethane

Concen: 53.835 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU036931.D

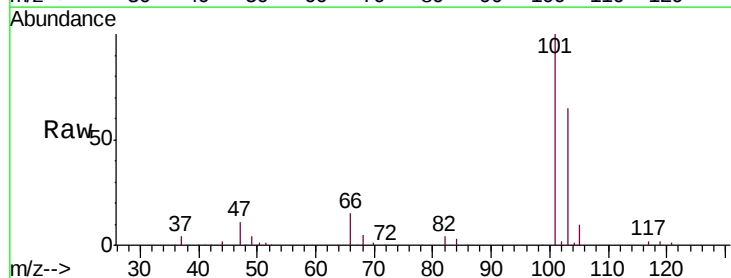
Acq: 27 Feb 2020 09:52

Tgt Ion: 101 Resp: 145429

Ion Ratio Lower Upper

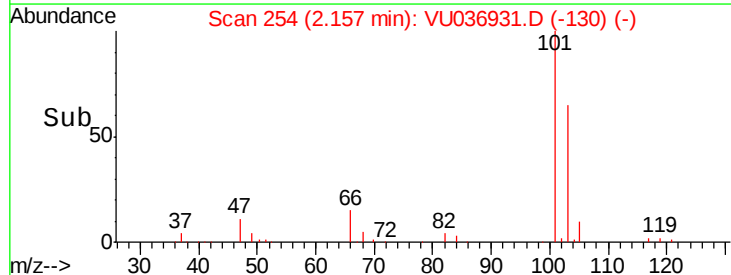
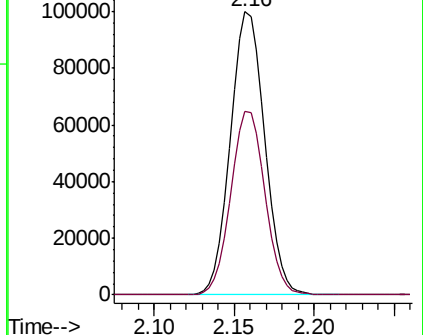
101 100

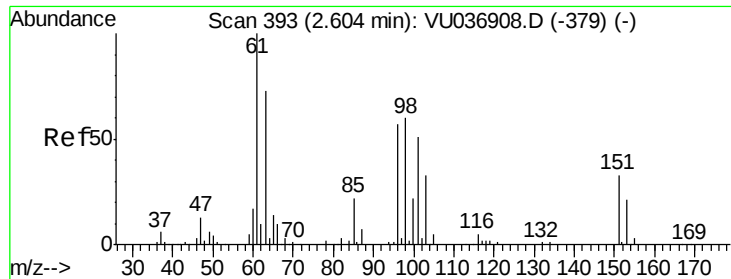
103 64.6 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): VU036931.D (-130) (-)

Ion 103.00 (102.70 to 103.70): VU036931.D (-130) (-)





#10

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

Concen: 55.494 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05060

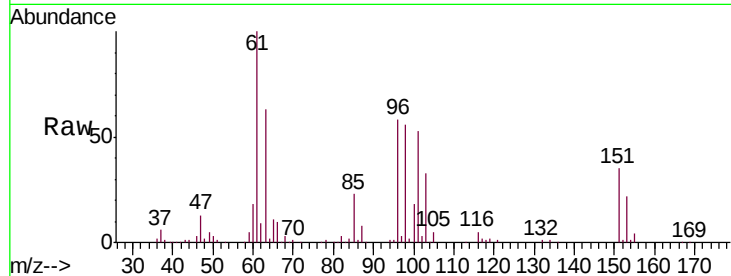
Tgt Ion:101 Resp: 89677

Ion Ratio Lower Upper

101 100

85 45.0 36.4 54.6

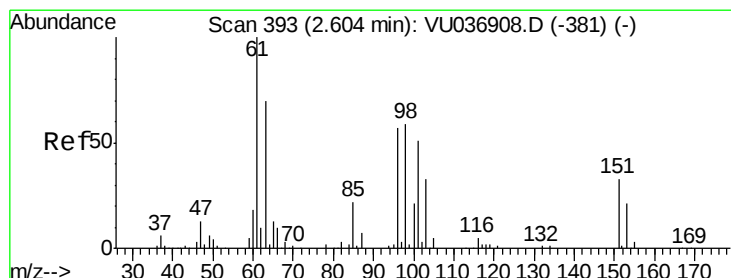
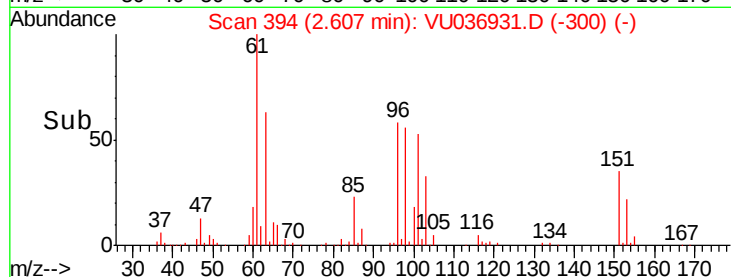
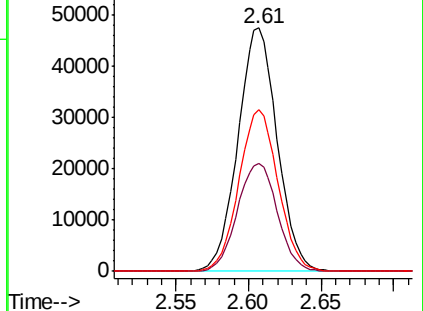
151 66.0 52.4 78.6



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: 52.613 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

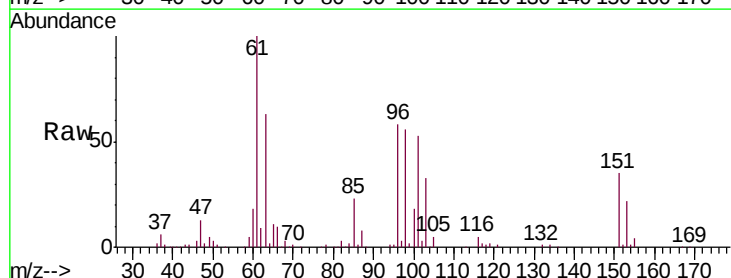
Tgt Ion: 96 Resp: 85993

Ion Ratio Lower Upper

96 100

61 172.0 127.5 236.7

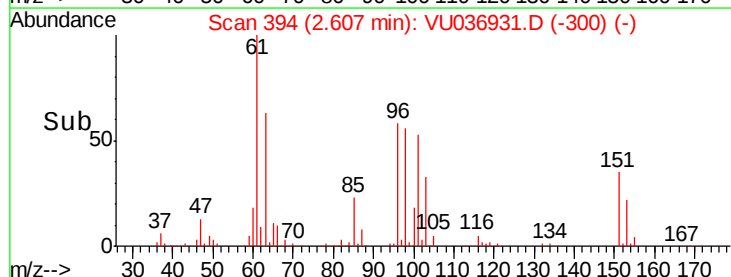
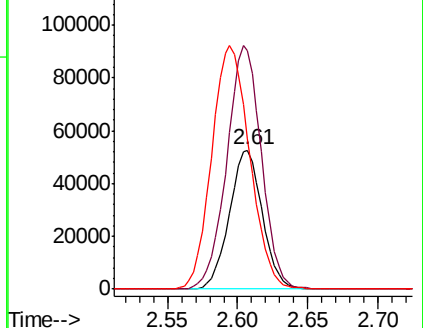
63 107.9 101.4 188.2

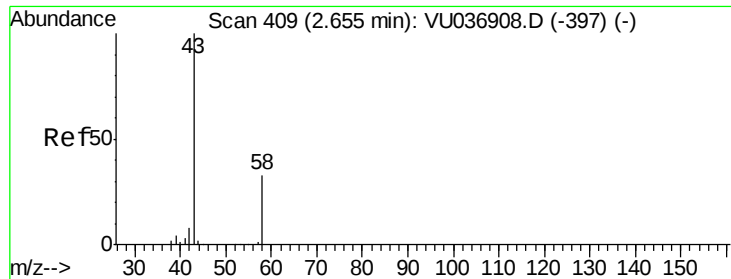


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 118.510 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

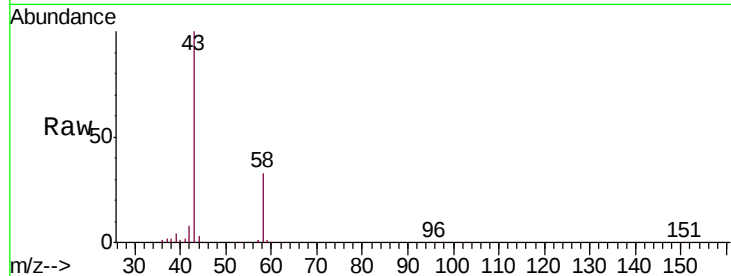
VSTD05060

Tgt Ion: 43 Resp: 173760

Ion Ratio Lower Upper

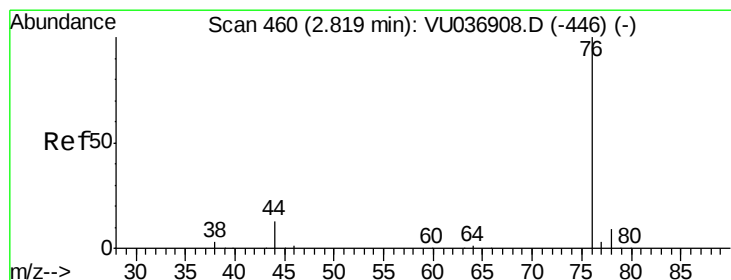
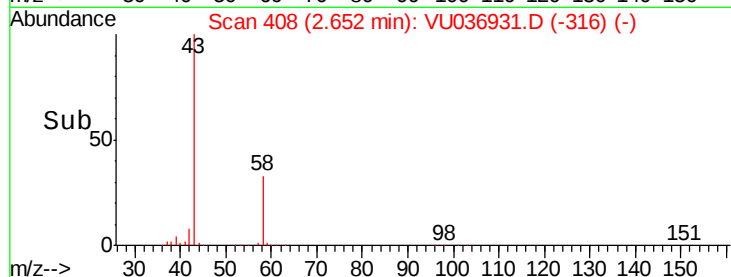
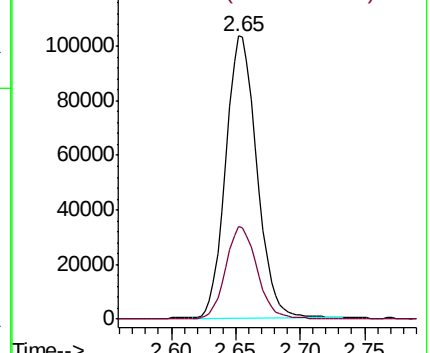
43 100

58 32.7 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU036908.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU036908.D (-397) (-)



#14

Carbon disulfide

Concen: 51.313 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036931.D

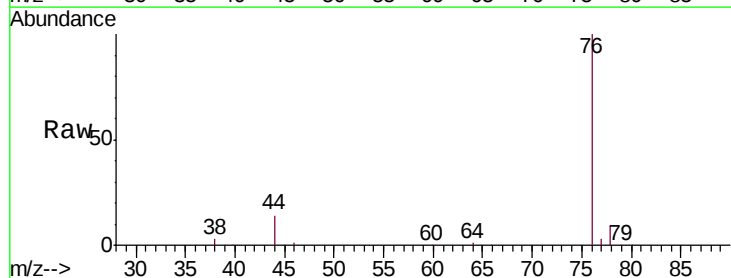
Acq: 27 Feb 2020 09:52

Tgt Ion: 76 Resp: 265356

Ion Ratio Lower Upper

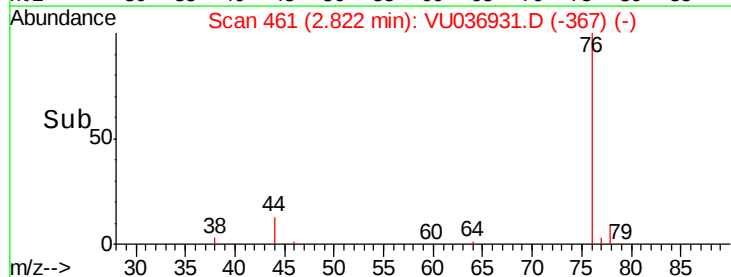
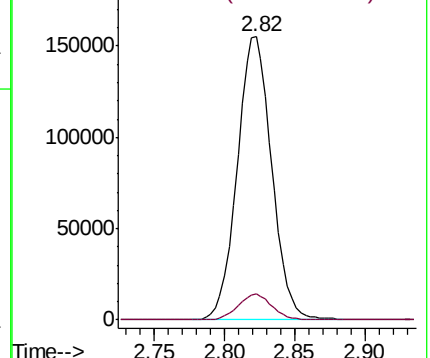
76 100

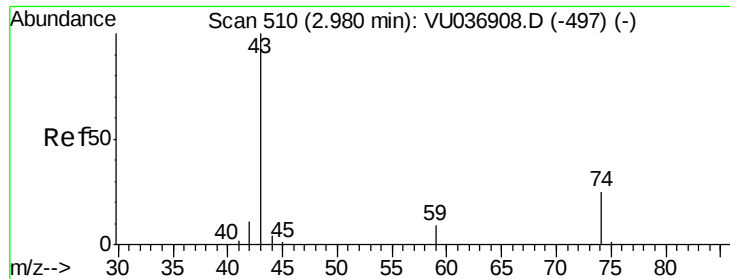
78 9.1 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU036908.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU036908.D (-446) (-)

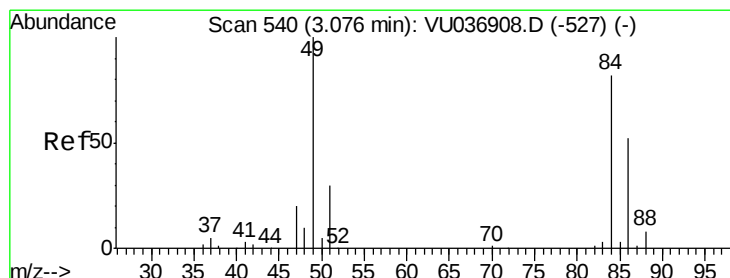
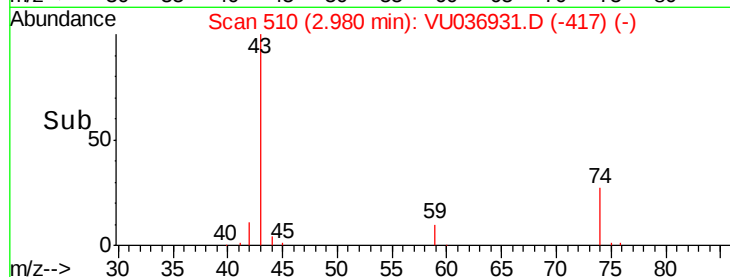
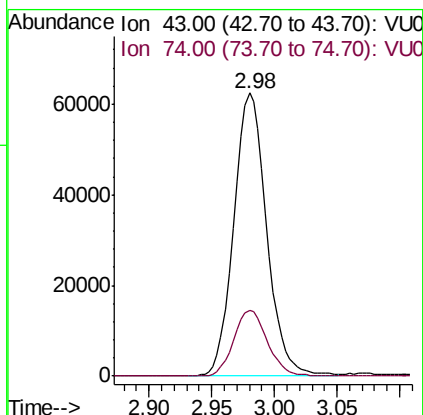
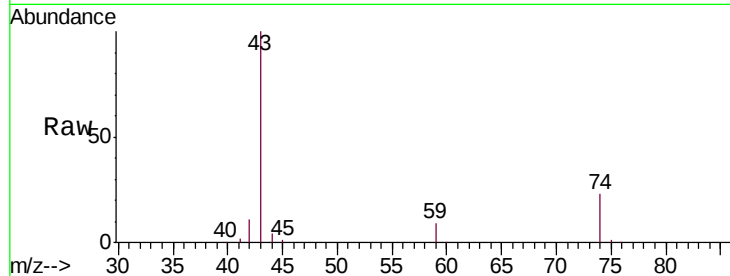




#15  
Methyl Acetate  
Concen: 50.586 ug/L  
RT: 2.98 min Scan# 510  
Delta R.T. 0.00 min  
Lab File: VU036931.D  
Acq: 27 Feb 2020 09:52

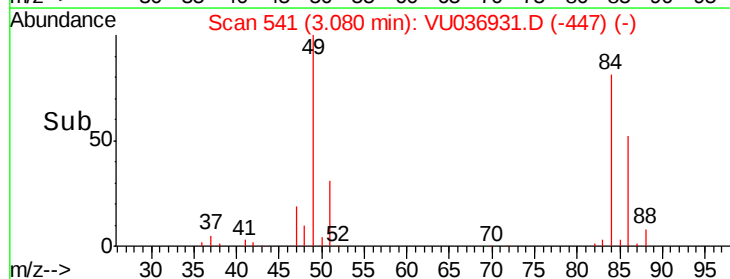
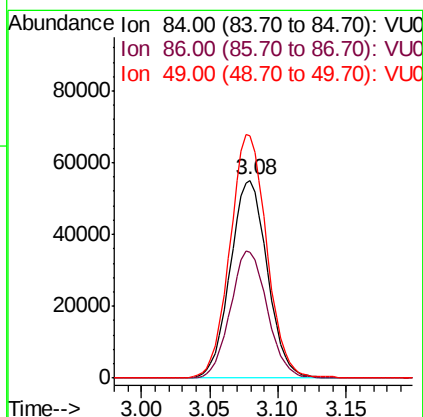
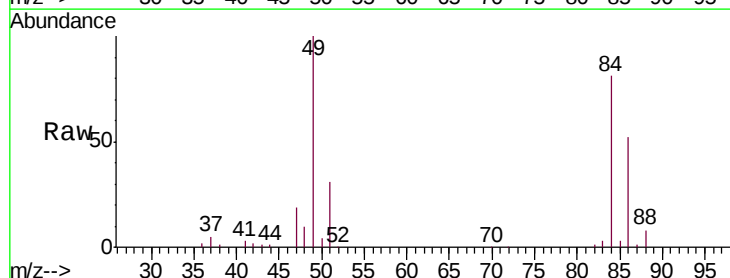
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05060

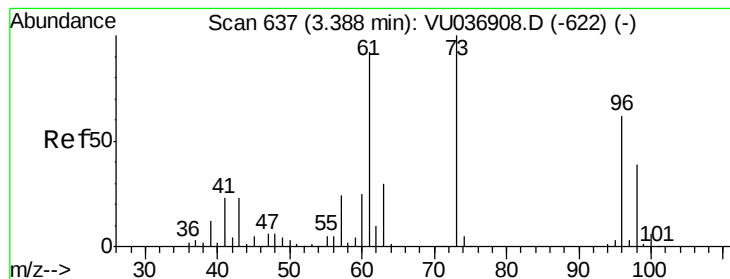
Tgt Ion: 43 Resp: 113051  
Ion Ratio Lower Upper  
43 100  
74 24.0 19.0 28.4



#16  
Methylene chloride  
Concen: 52.288 ug/L  
RT: 3.08 min Scan# 541  
Delta R.T. 0.00 min  
Lab File: VU036931.D  
Acq: 27 Feb 2020 09:52

Tgt Ion: 84 Resp: 104238  
Ion Ratio Lower Upper  
84 100  
86 64.0 44.4 82.5  
49 122.8 85.9 159.5





#17

trans-1,2-Dichloroethene

Concen: 51.852 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05060

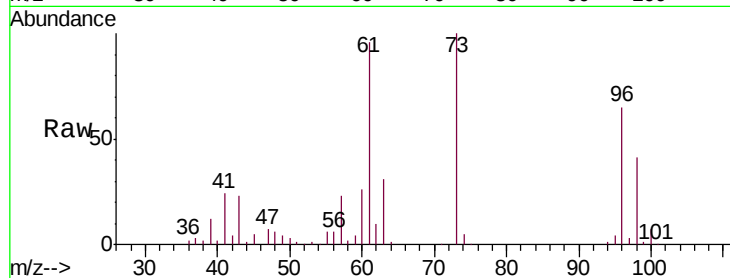
Tgt Ion: 96 Resp: 91041

Ion Ratio Lower Upper

96 100

61 146.5 103.8 192.8

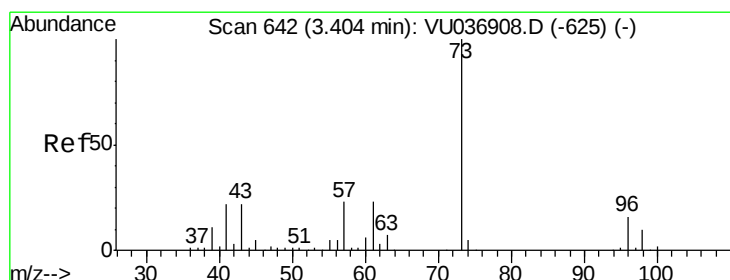
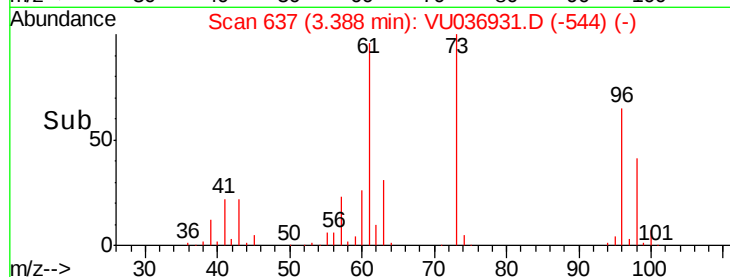
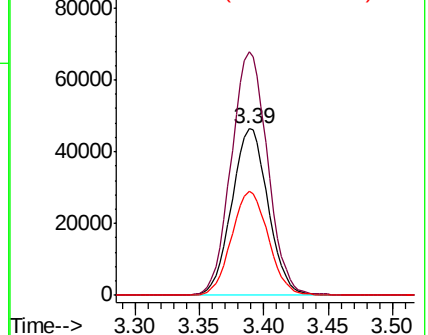
98 62.2 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU036931.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU036931.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU036931.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 51.169 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

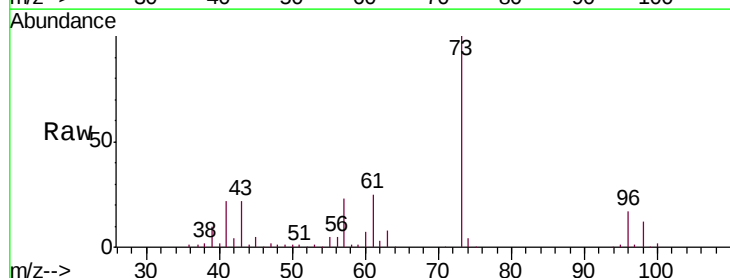
Tgt Ion: 73 Resp: 292043

Ion Ratio Lower Upper

73 100

43 22.3 18.1 27.1

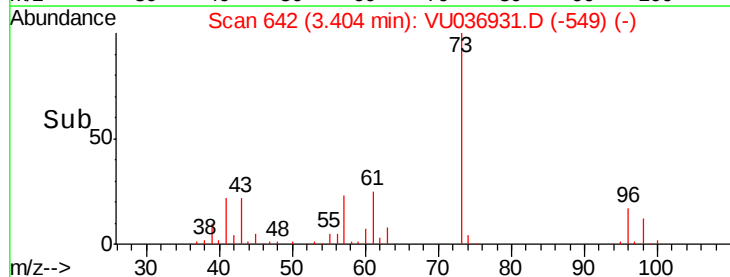
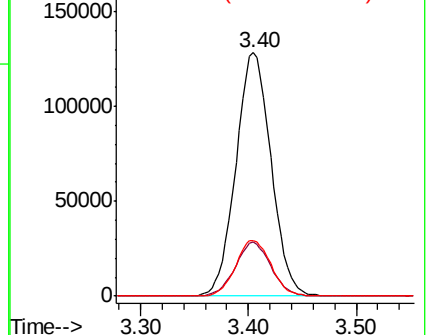
57 23.0 18.4 27.6

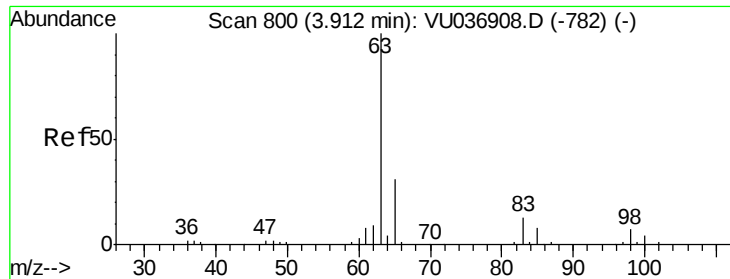


Abundance Ion 73.00 (72.70 to 73.70): VU036931.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU036931.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU036931.D (-549) (-)





#19

1,1-Dichloroethane

Concen: 52.259 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05060

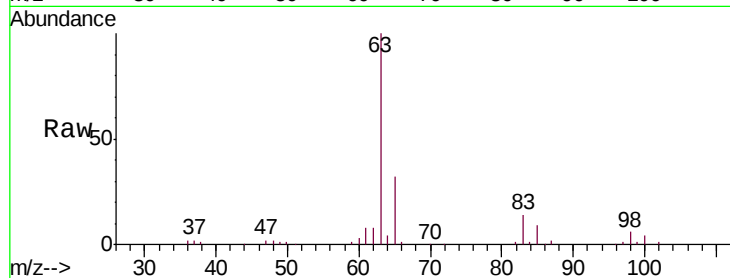
Tgt Ion: 63 Resp: 178291

Ion Ratio Lower Upper

63 100

65 32.3 21.3 39.5

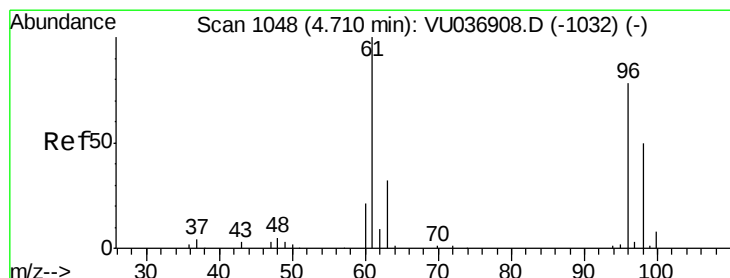
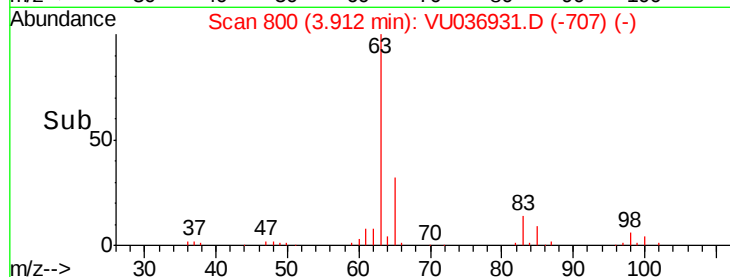
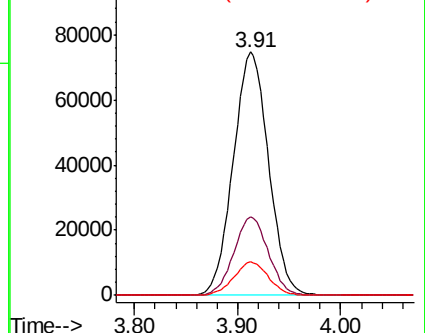
83 13.8 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU036931.D (-955) (-)

Ion 65.00 (64.70 to 65.70): VU036931.D (-955) (-)

Ion 83.00 (82.70 to 83.70): VU036931.D (-955) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.628 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

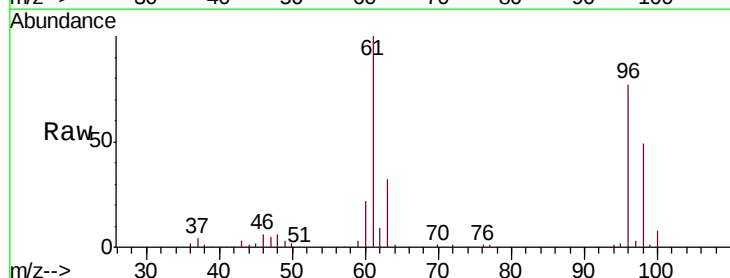
Tgt Ion: 96 Resp: 103322

Ion Ratio Lower Upper

96 100

61 129.9 93.1 172.9

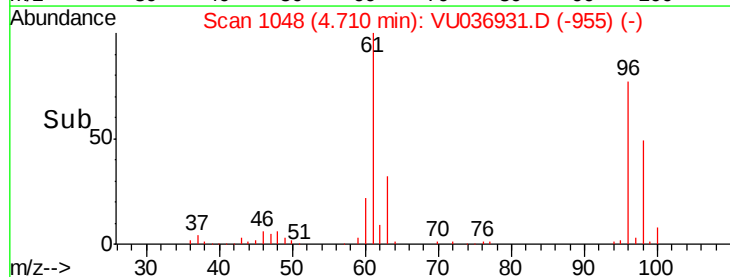
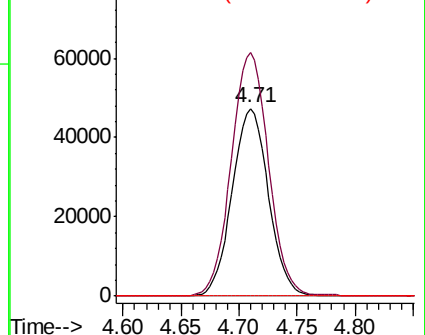
68 0.0 0.0 0.0

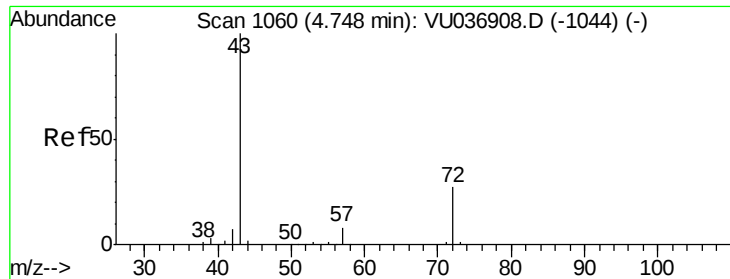


Abundance Ion 96.00 (95.70 to 96.70): VU036931.D (-955) (-)

Ion 61.00 (60.70 to 61.70): VU036931.D (-955) (-)

Ion 68.00 (67.70 to 68.70): VU036931.D (-955) (-)





#22

2-Butanone

Concen: 111.012 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

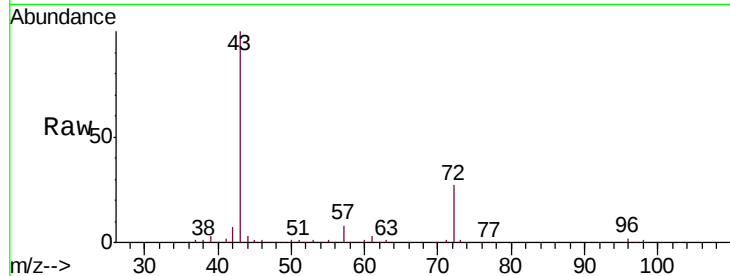
VSTD05060

Tgt Ion: 43 Resp: 196275

Ion Ratio Lower Upper

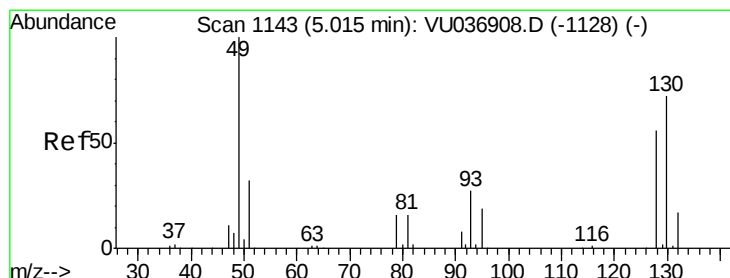
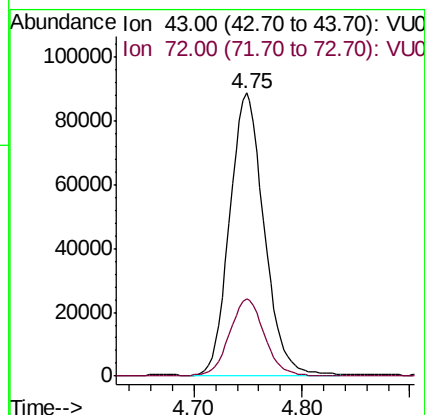
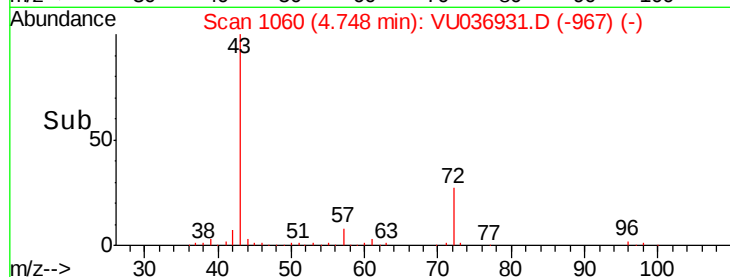
43 100

72 28.0 13.9 41.6



Abundance Ion 43.00 (42.70 to 43.70): VU036931.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU036931.D (-967) (-)



#23

Bromochloromethane

Concen: 54.045 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Tgt Ion: 128 Resp: 48051

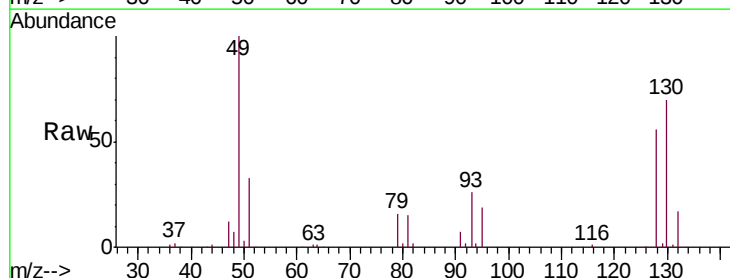
Ion Ratio Lower Upper

128 100

49 177.6 126.5 234.9

130 124.9 86.0 159.8

51 58.0 47.3 70.9

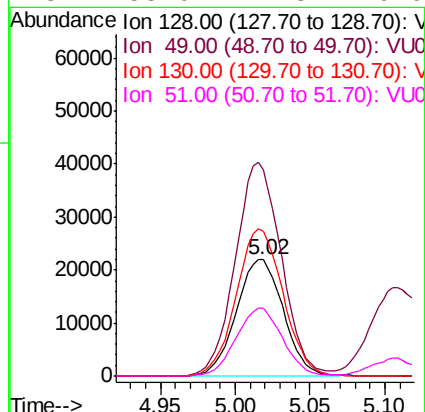
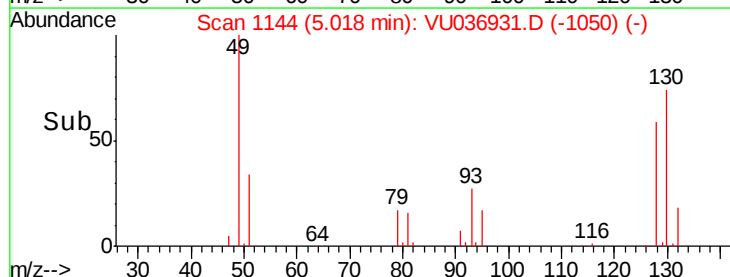


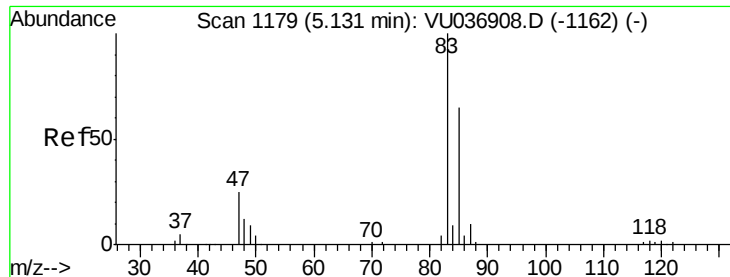
Abundance Ion 128.00 (127.70 to 128.70): VU036931.D (-1050) (-)

Ion 49.00 (48.70 to 49.70): VU036931.D (-1050) (-)

Ion 130.00 (129.70 to 130.70): VU036931.D (-1050) (-)

Ion 51.00 (50.70 to 51.70): VU036931.D (-1050) (-)

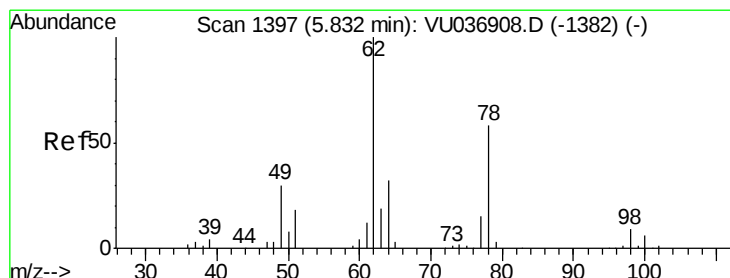
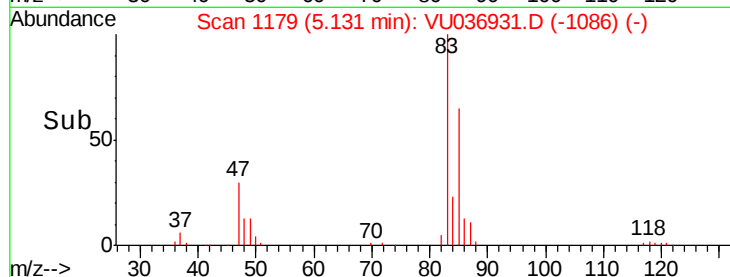
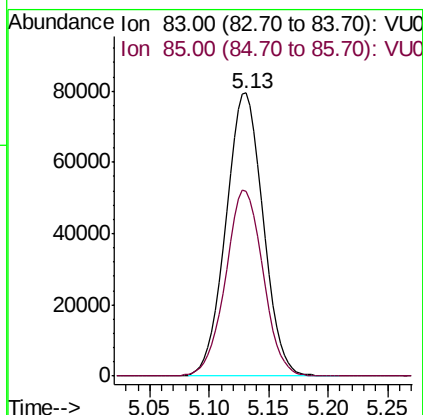
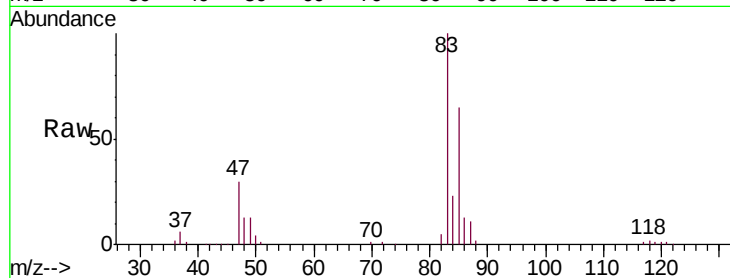




#25  
Chloroform  
Concen: 52.453 ug/L  
RT: 5.13 min Scan# 1179  
Delta R.T. 0.00 min  
Lab File: VU036931.D  
Acq: 27 Feb 2020 09:52

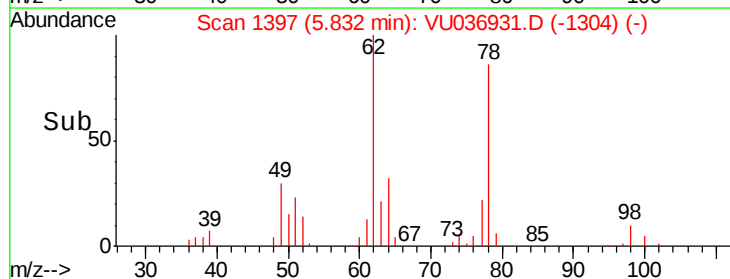
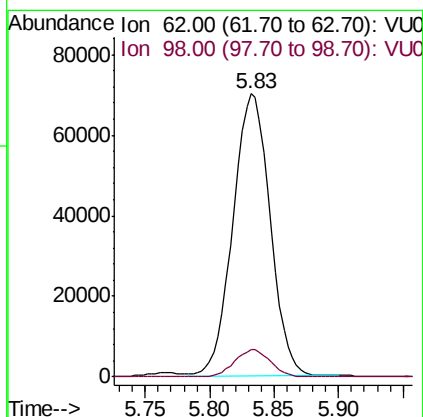
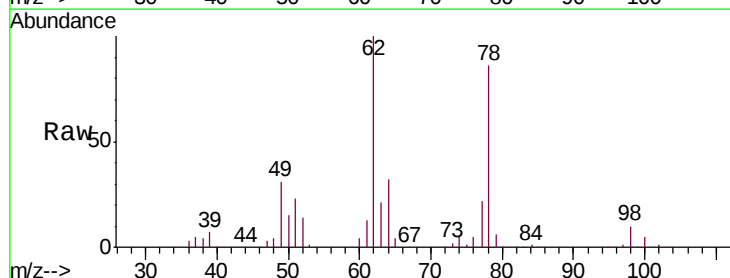
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05060

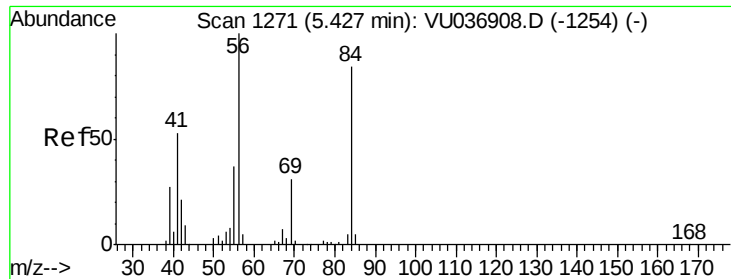
Tgt Ion: 83 Resp: 172668  
Ion Ratio Lower Upper  
83 100  
85 65.4 45.1 83.9



#27  
1,2-Dichloroethane  
Concen: 52.660 ug/L  
RT: 5.83 min Scan# 1397  
Delta R.T. 0.00 min  
Lab File: VU036931.D  
Acq: 27 Feb 2020 09:52

Tgt Ion: 62 Resp: 141126  
Ion Ratio Lower Upper  
62 100  
98 9.6 7.1 10.7

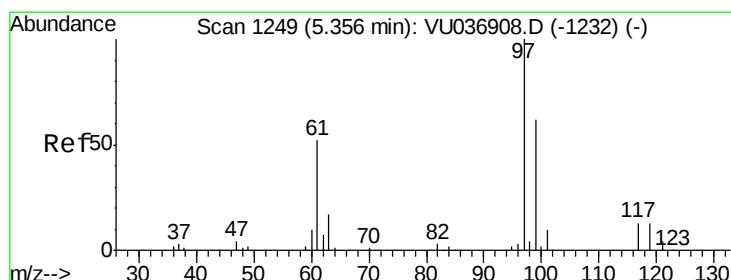
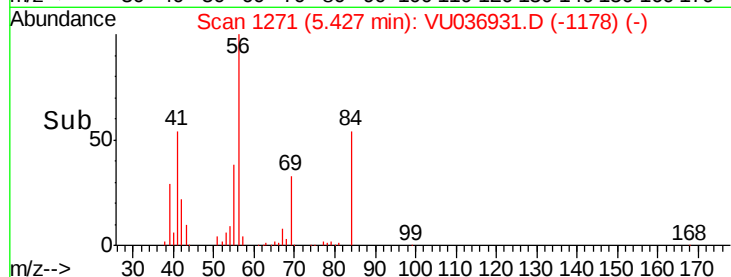
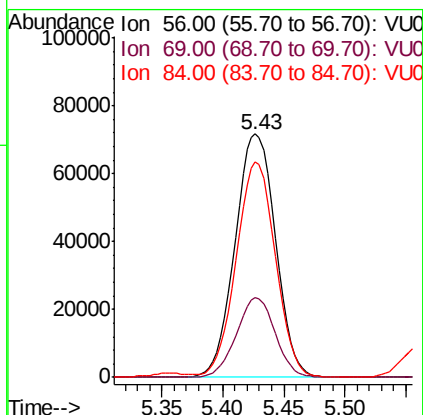
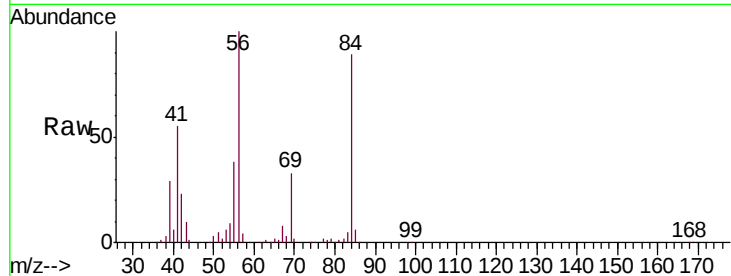




#29  
Cyclohexane  
Concen: 51.239 ug/L  
RT: 5.43 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VU036931.D  
Acq: 27 Feb 2020 09:52

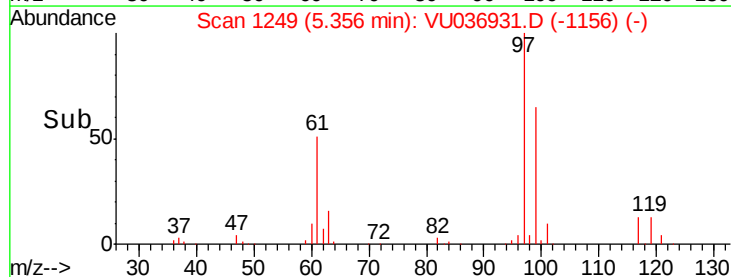
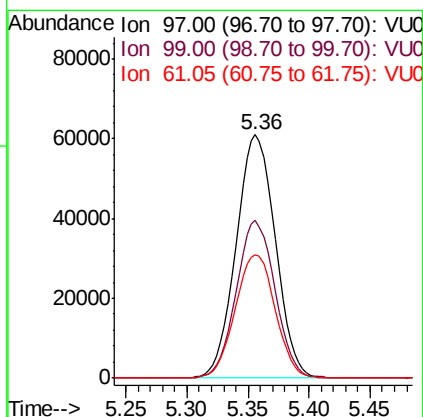
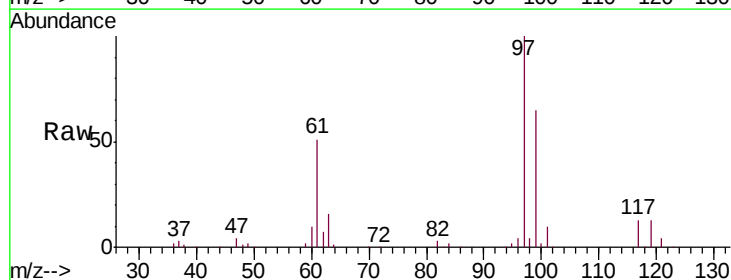
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05060

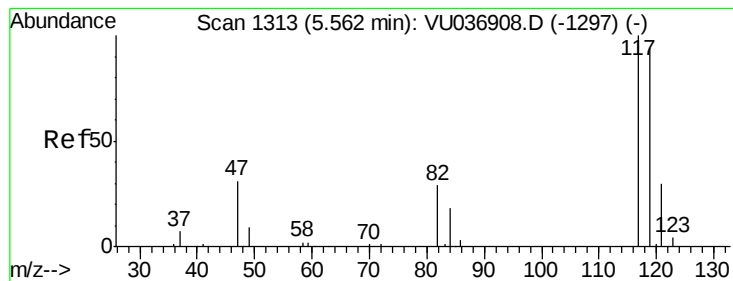
Tgt Ion: 56 Resp: 164539  
Ion Ratio Lower Upper  
56 100  
69 31.2 24.6 37.0  
84 85.5 67.0 100.4



#30  
1,1,1-Trichloroethane  
Concen: 52.411 ug/L  
RT: 5.36 min Scan# 1249  
Delta R.T. 0.00 min  
Lab File: VU036931.D  
Acq: 27 Feb 2020 09:52

Tgt Ion: 97 Resp: 135979  
Ion Ratio Lower Upper  
97 100  
99 64.1 50.4 75.6  
61 51.6 40.3 60.5





#31

Carbon tetrachloride

Concen: 52.826 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

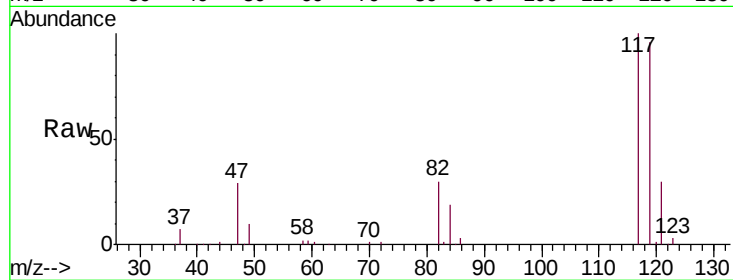
VSTD05060

Tgt Ion:117 Resp: 107425

Ion Ratio Lower Upper

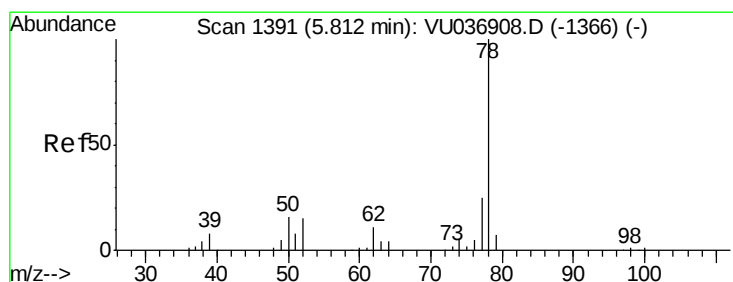
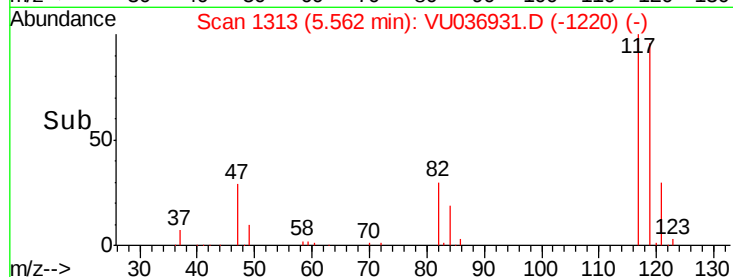
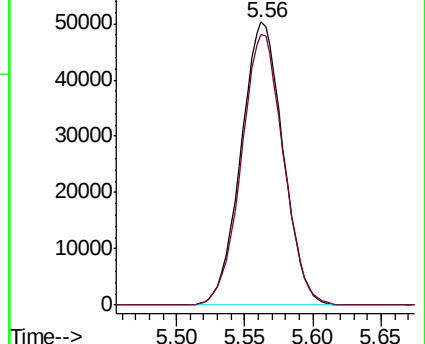
117 100

119 96.0 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.777 ug/L

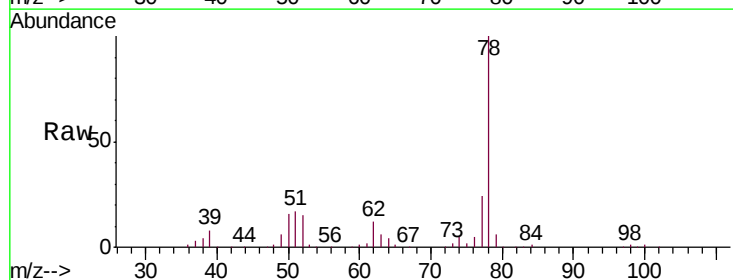
RT: 5.81 min Scan# 1391

Delta R.T. 0.00 min

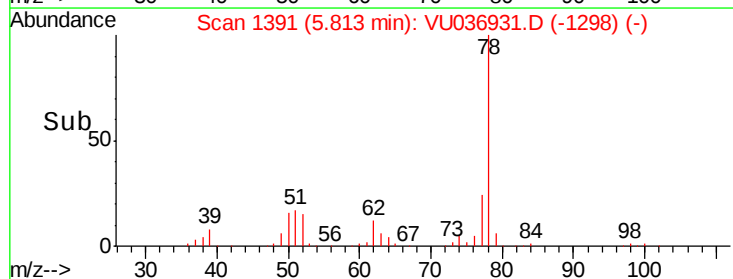
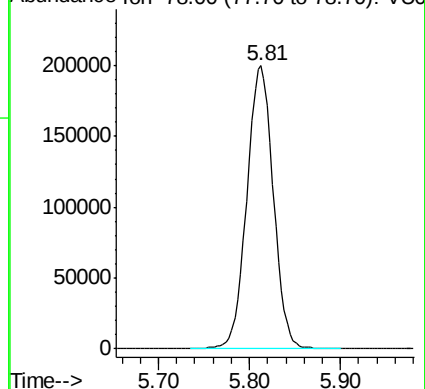
Lab File: VU036931.D

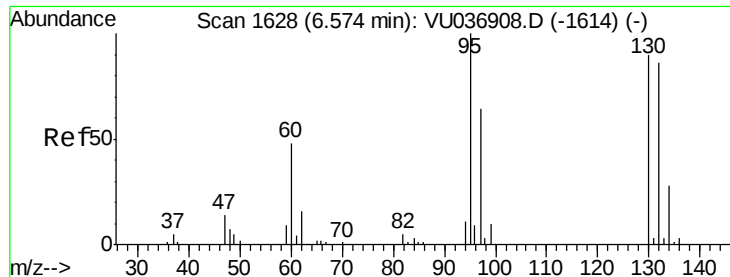
Acq: 27 Feb 2020 09:52

Tgt Ion: 78 Resp: 403468



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 52.712 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05060

Tgt Ion: 95 Resp: 99044

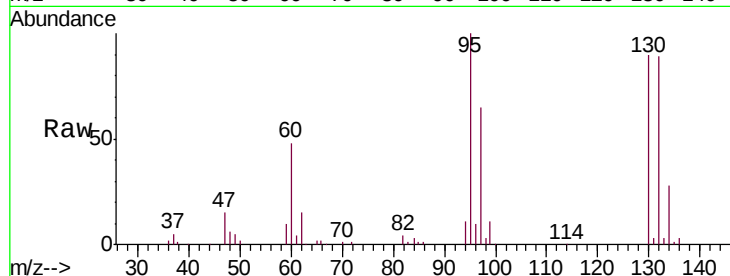
Ion Ratio Lower Upper

95 100

97 64.7 44.1 81.9

132 88.8 60.6 112.6

130 89.6 64.9 120.5

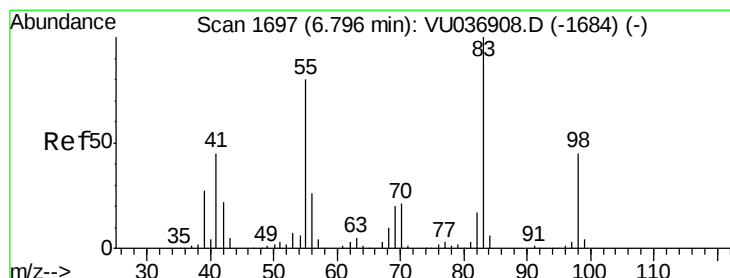
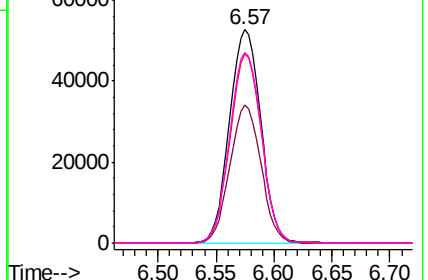
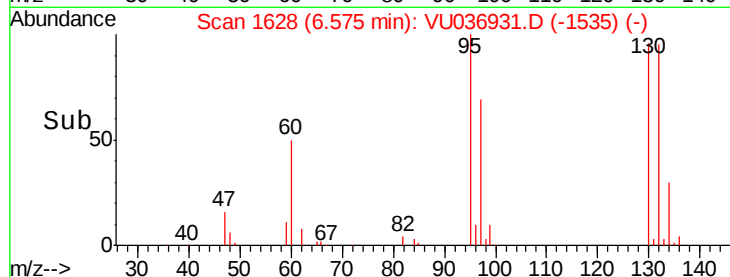


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 53.415 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

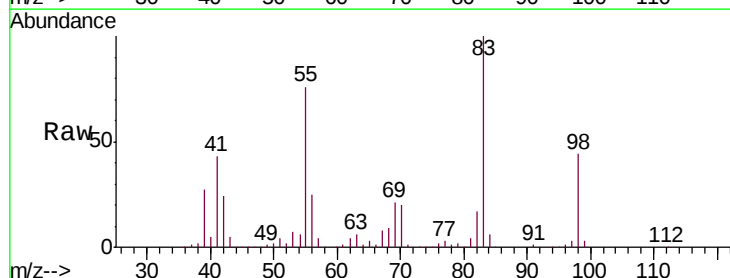
Tgt Ion: 83 Resp: 174013

Ion Ratio Lower Upper

83 100

55 76.9 62.6 93.8

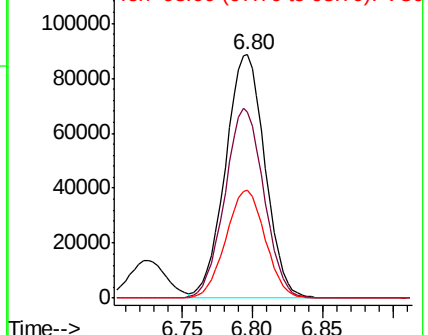
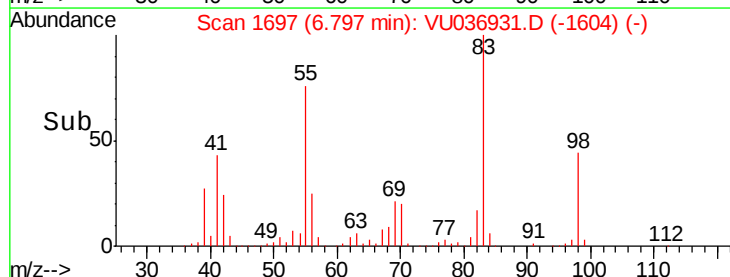
98 44.1 35.1 52.7

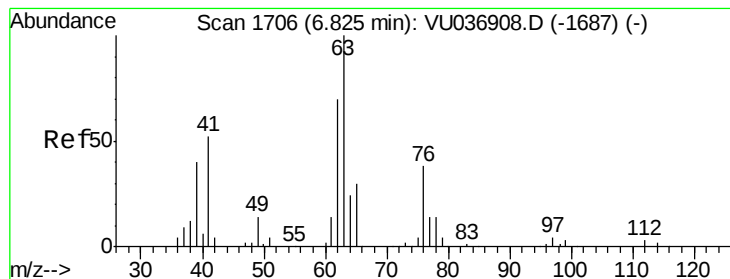


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 51.371 ug/L

RT: 6.83 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

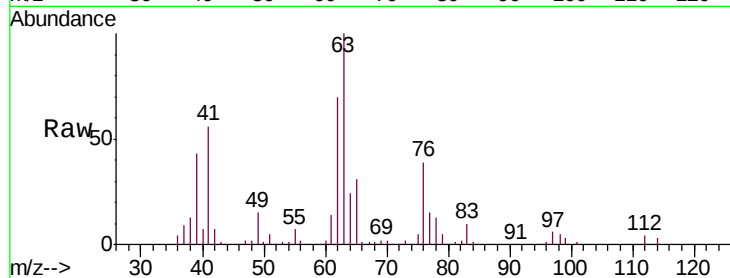
VSTD05060

Tgt Ion: 63 Resp: 105742

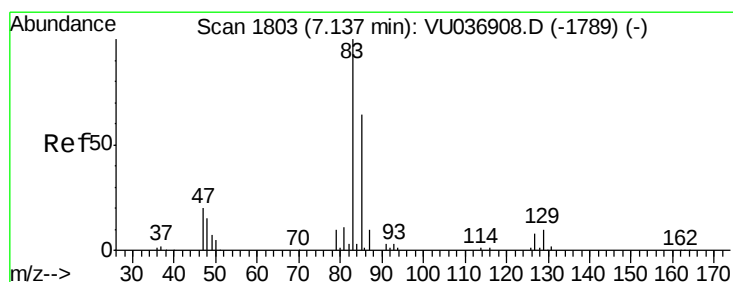
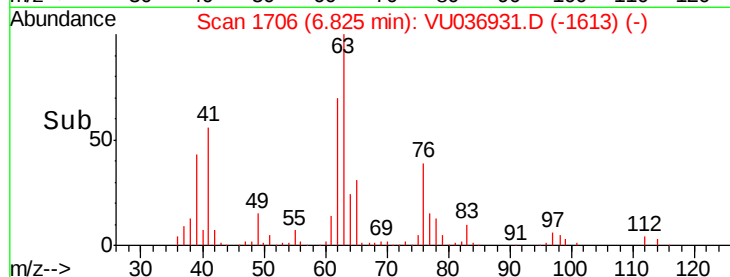
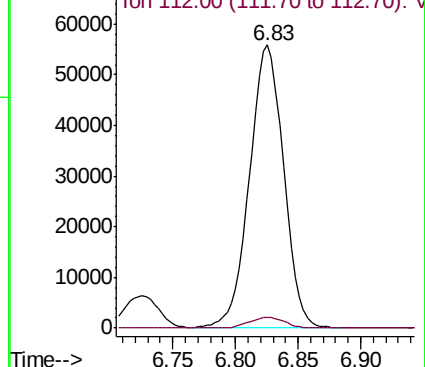
Ion Ratio Lower Upper

63 100

112 3.9 3.0 4.6



Abundance Ion 63.00 (62.70 to 63.70): VU036931.D (-1613) (-)



#38

Bromodichloromethane

Concen: 52.491 ug/L

RT: 7.14 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

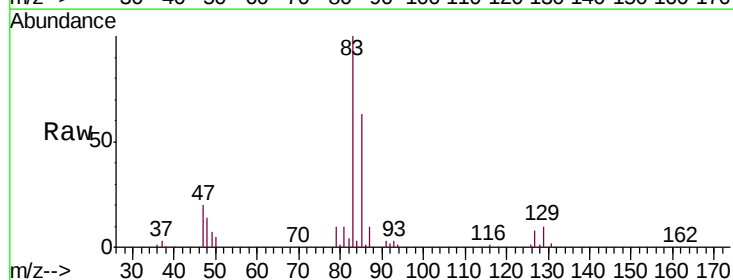
Tgt Ion: 83 Resp: 127538

Ion Ratio Lower Upper

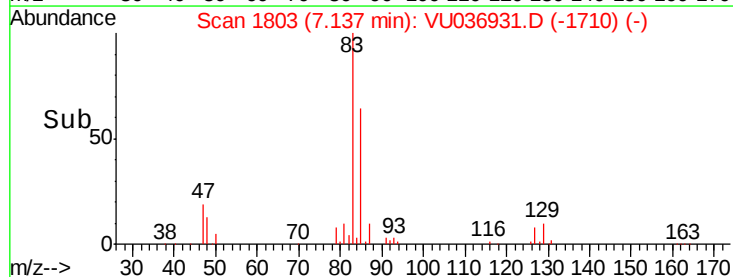
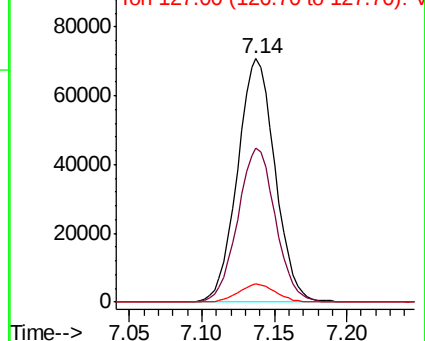
83 100

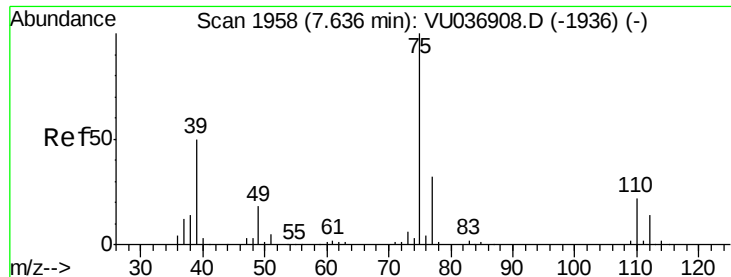
85 63.2 43.6 81.0

127 7.6 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VU036931.D (-1710) (-)

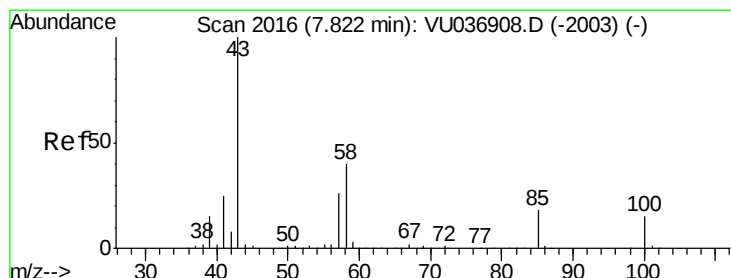
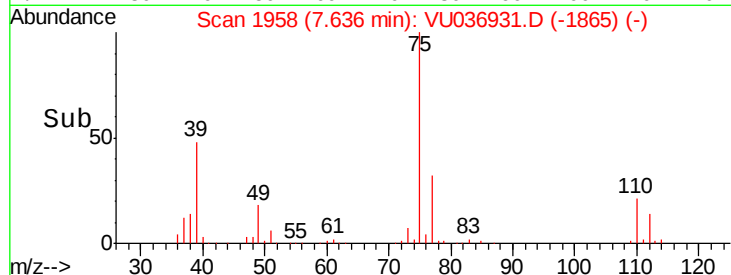
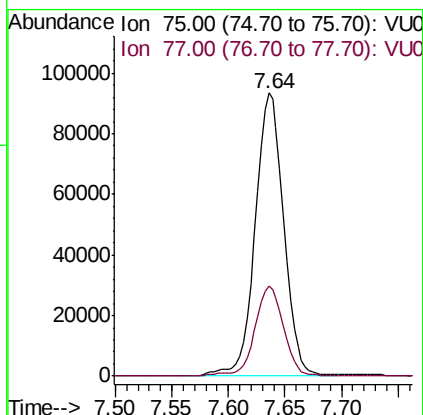
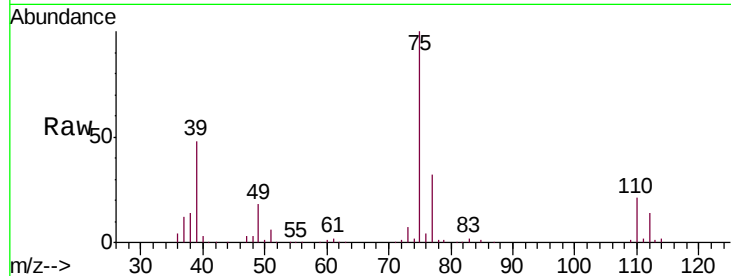




#39  
 cis-1,3-Dichloropropene  
 Concen: 51.735 ug/L  
 RT: 7.64 min Scan# 1958  
 Delta R.T. 0.00 min  
 Lab File: VU036931.D  
 Acq: 27 Feb 2020 09:52

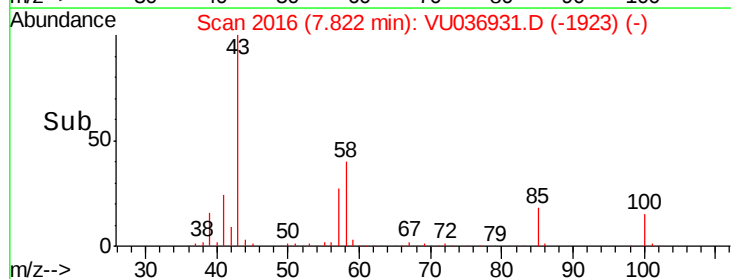
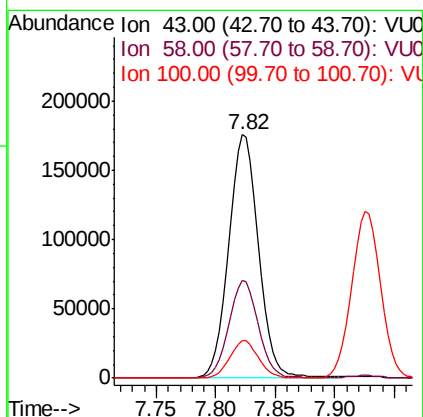
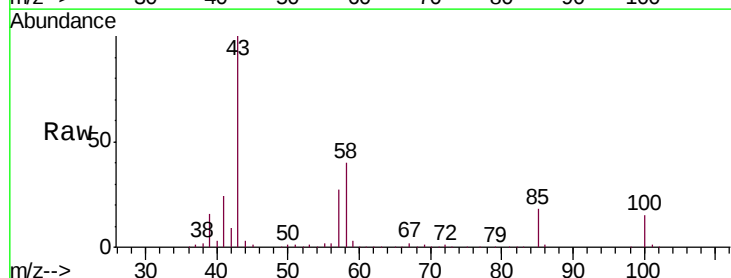
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05060

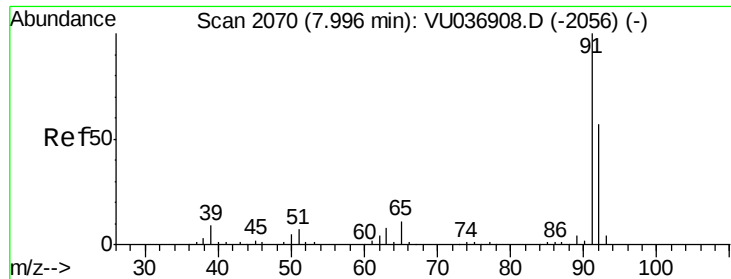
Tgt Ion: 75 Resp: 164041  
 Ion Ratio Lower Upper  
 75 100  
 77 31.7 22.0 41.0



#40  
 4-Methyl-2-pentanone  
 Concen: 100.714 ug/L  
 RT: 7.82 min Scan# 2016  
 Delta R.T. 0.00 min  
 Lab File: VU036931.D  
 Acq: 27 Feb 2020 09:52

Tgt Ion: 43 Resp: 305472  
 Ion Ratio Lower Upper  
 43 100  
 58 39.7 31.8 47.6  
 100 14.7 11.5 17.3





#42

Toluene

Concen: 53.049 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

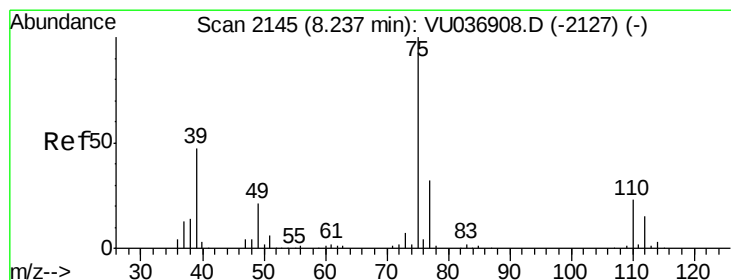
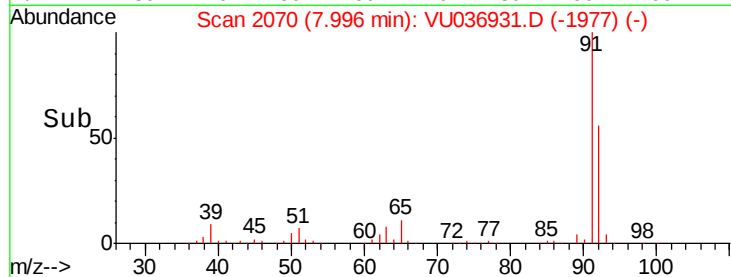
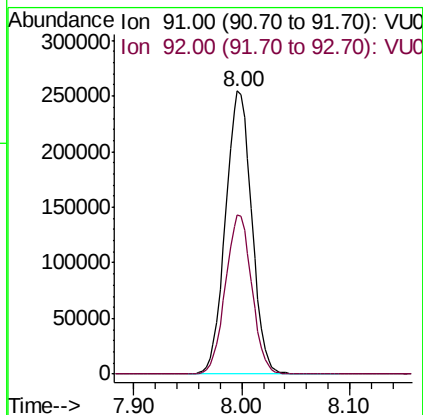
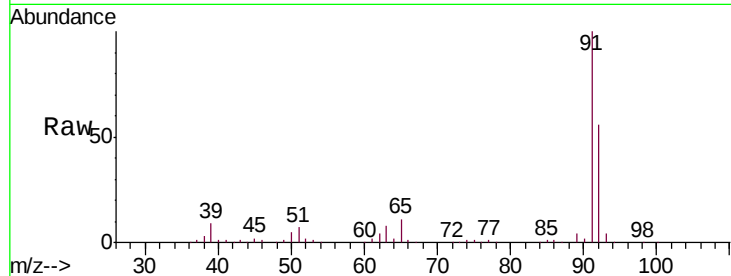
VSTD05060

Tgt Ion: 91 Resp: 432063

Ion Ratio Lower Upper

91 100

92 56.2 39.4 73.2



#44

trans-1,3-Dichloropropene

Concen: 52.240 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU036931.D

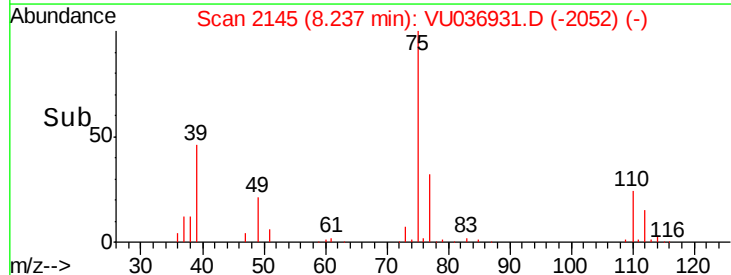
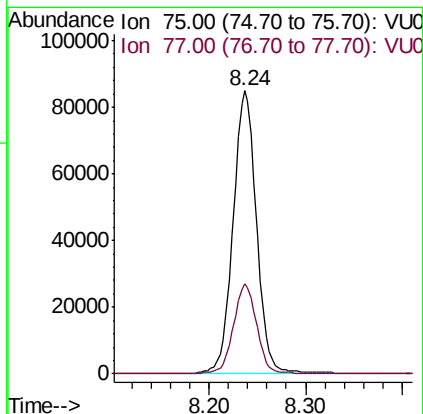
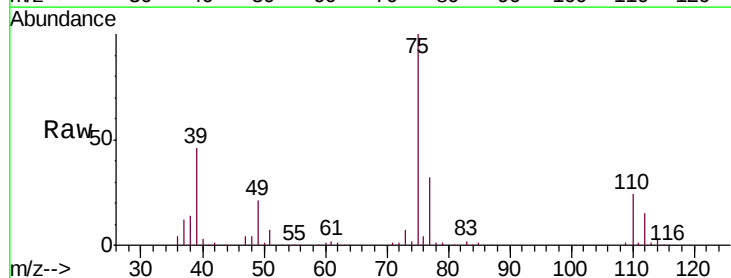
Acq: 27 Feb 2020 09:52

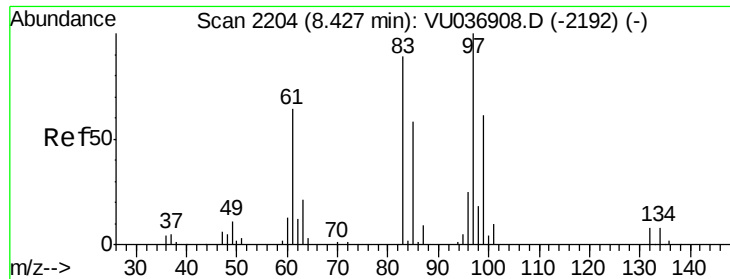
Tgt Ion: 75 Resp: 143690

Ion Ratio Lower Upper

75 100

77 31.8 21.6 40.2

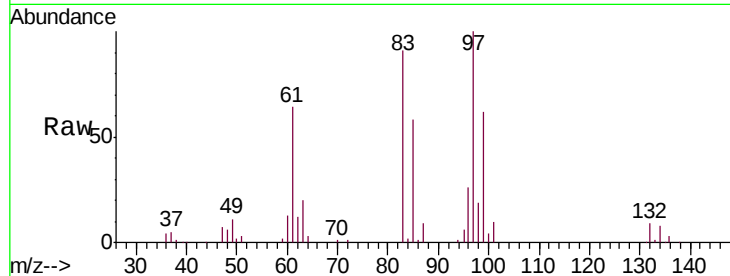




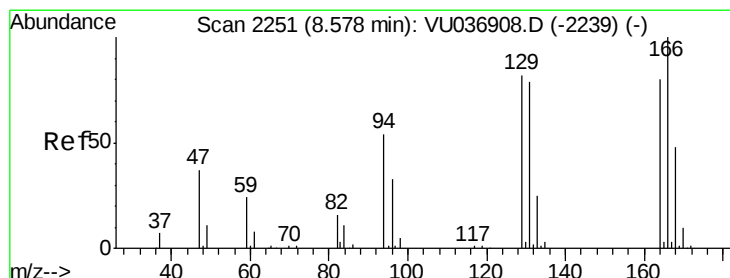
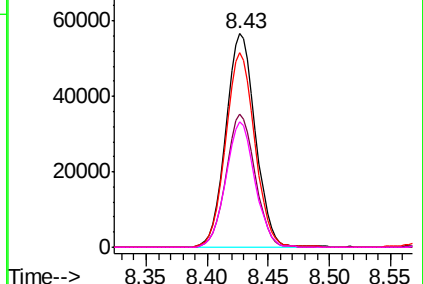
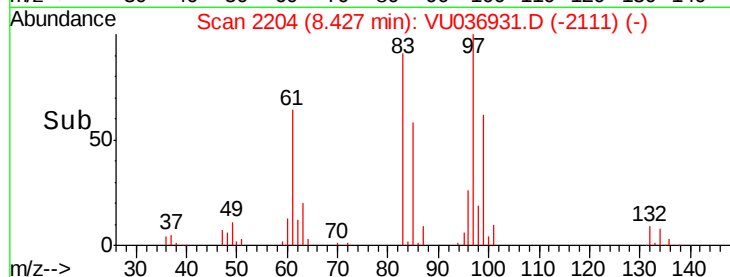
#45  
 1,1,2-Trichloroethane  
 Concen: 52.619 ug/L  
 RT: 8.43 min Scan# 2204  
 Delta R.T. 0.00 min  
 Lab File: VU036931.D  
 Acq: 27 Feb 2020 09:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05060

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 96316 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.1  | 43.6  | 81.0  |
| 83       | 91.4  | 62.7  | 116.5 |
| 85       | 58.5  | 40.3  | 74.9  |

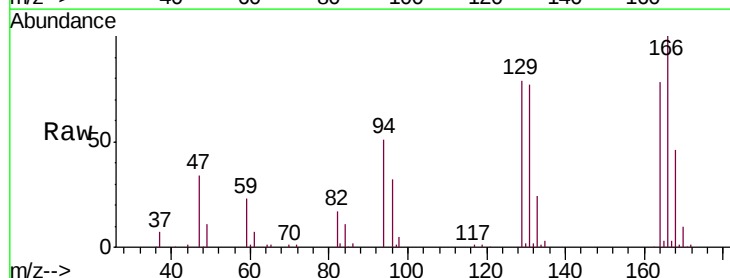


Abundance Ion 97.00 (96.70 to 97.70): VU036931.D (-2111) (-)  
 Ion 99.00 (98.70 to 99.70): VU036931.D (-2111) (-)  
 Ion 83.00 (82.70 to 83.70): VU036931.D (-2111) (-)  
 Ion 85.00 (84.70 to 85.70): VU036931.D (-2111) (-)

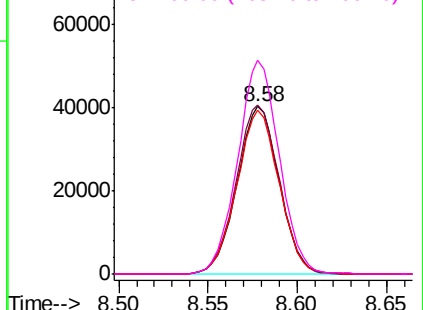
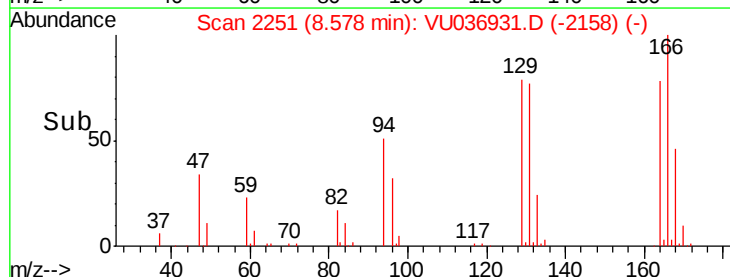


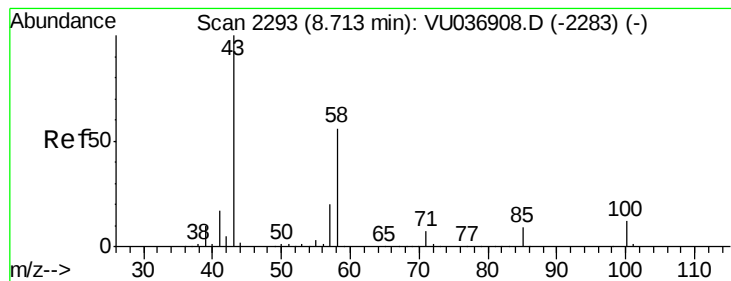
#46  
 Tetrachloroethene  
 Concen: 53.369 ug/L  
 RT: 8.58 min Scan# 2251  
 Delta R.T. 0.00 min  
 Lab File: VU036931.D  
 Acq: 27 Feb 2020 09:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 66060 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 101.2 | 72.0  | 133.8 |
| 131      | 97.9  | 67.9  | 126.1 |
| 166      | 127.8 | 87.1  | 161.7 |



Abundance Ion 164.00 (163.70 to 164.70): VU036931.D (-2158) (-)  
 Ion 129.00 (128.70 to 129.70): VU036931.D (-2158) (-)  
 Ion 131.00 (130.70 to 131.70): VU036931.D (-2158) (-)  
 Ion 166.00 (165.70 to 166.70): VU036931.D (-2158) (-)





#48

2-Hexanone

Concen: 105.118 ug/L

RT: 8.71 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05060

Tgt Ion: 43 Resp: 254426

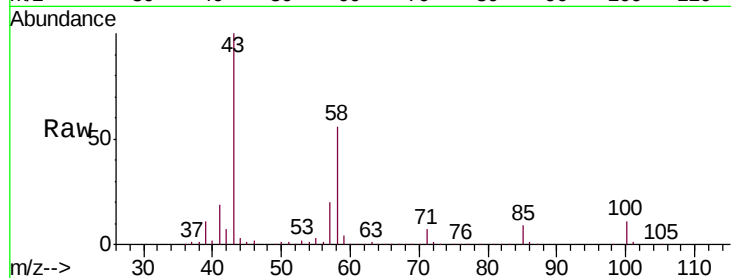
Ion Ratio Lower Upper

43 100

58 55.9 43.5 65.3

57 19.4 15.1 22.7

100 11.4 8.7 13.1

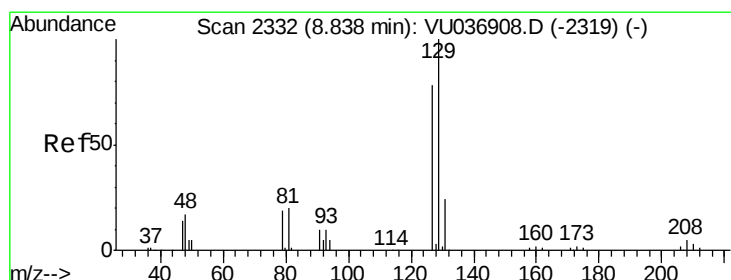
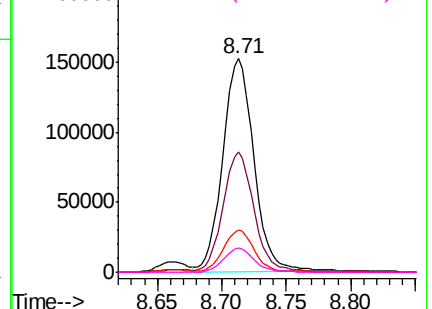
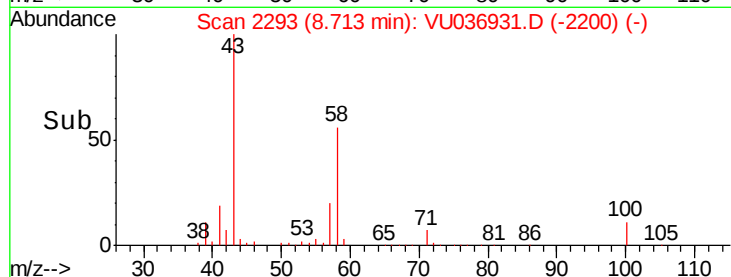


Abundance Ion 43.00 (42.70 to 43.70): VU036931.D (-2200) (-)

Ion 58.00 (57.70 to 58.70): VU036931.D (-2200) (-)

Ion 57.00 (56.70 to 57.70): VU036931.D (-2200) (-)

Ion 100.00 (99.70 to 100.70): VU036931.D (-2200) (-)



#49

Dibromochloromethane

Concen: 52.767 ug/L

RT: 8.84 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VU036931.D

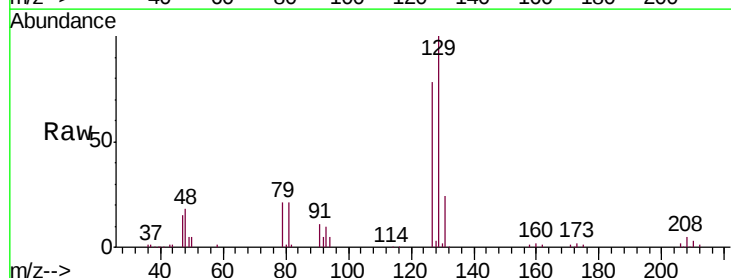
Acq: 27 Feb 2020 09:52

Tgt Ion: 129 Resp: 91677

Ion Ratio Lower Upper

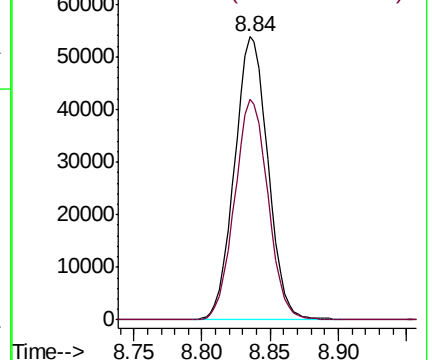
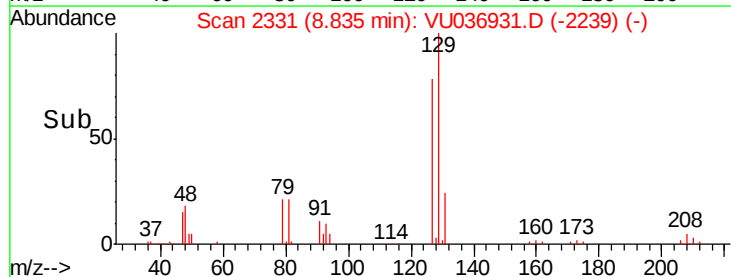
129 100

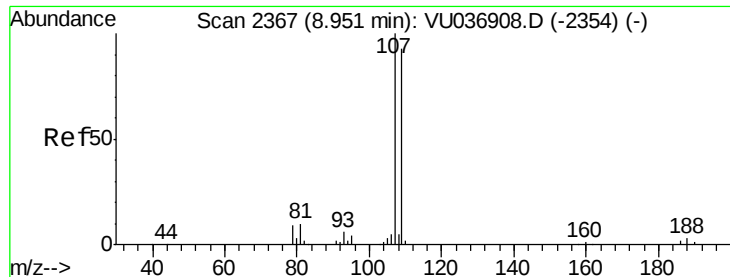
127 77.8 54.3 100.8



Abundance Ion 129.00 (128.70 to 129.70): VU036931.D (-2239) (-)

Ion 127.00 (126.70 to 127.70): VU036931.D (-2239) (-)

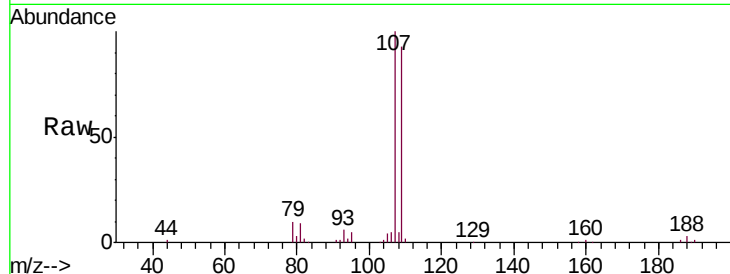




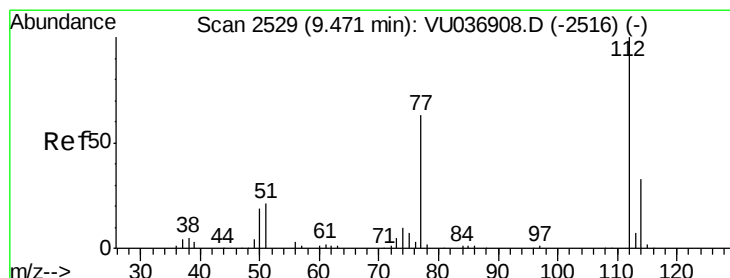
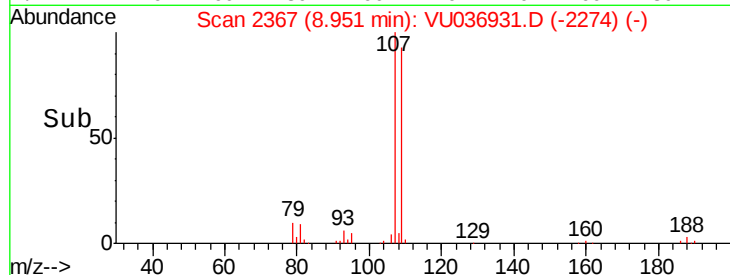
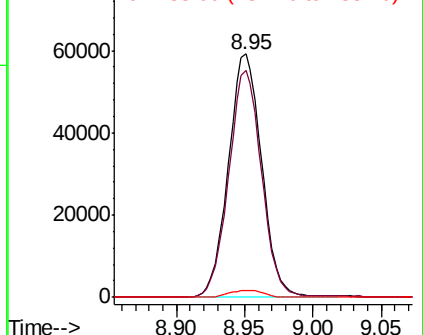
#50  
1,2-Dibromoethane  
Concen: 52.458 ug/L  
RT: 8.95 min Scan# 2367  
Delta R.T. 0.00 min  
Lab File: VU036931.D  
Acq: 27 Feb 2020 09:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05060

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.3  | 65.9  | 122.5 |
| 188     | 2.7   | 2.2   | 3.2   |

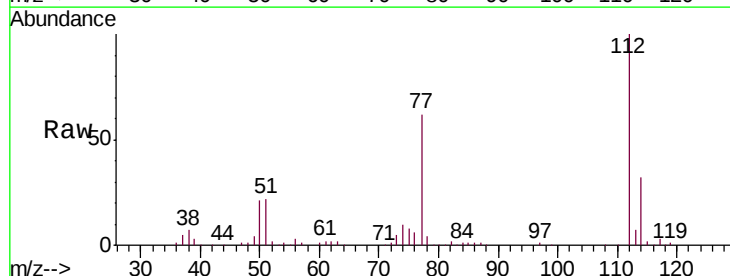


Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

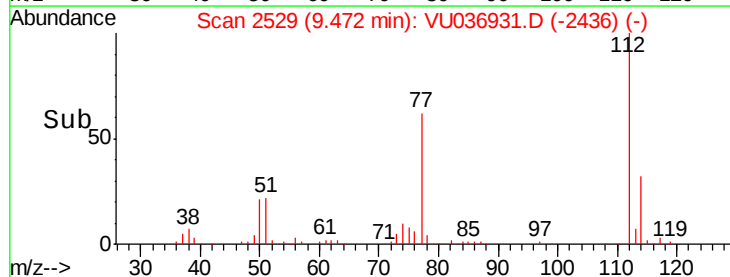
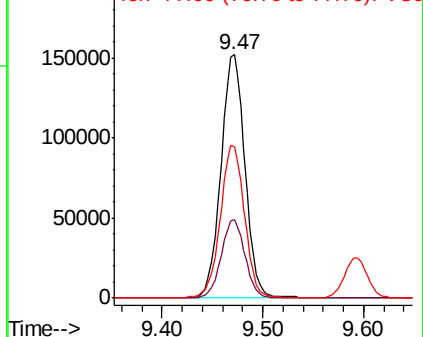


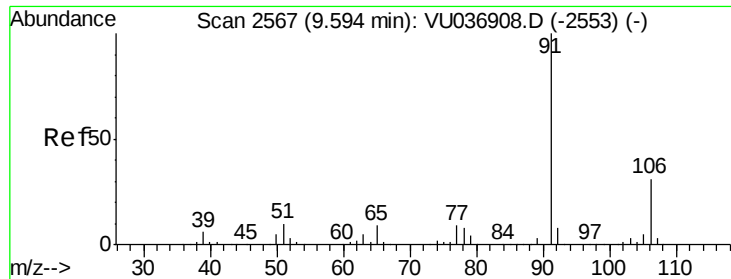
#51  
Chlorobenzene  
Concen: 52.477 ug/L  
RT: 9.47 min Scan# 2529  
Delta R.T. 0.00 min  
Lab File: VU036931.D  
Acq: 27 Feb 2020 09:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.0  | 22.3  | 41.5  |
| 77      | 62.4  | 50.1  | 75.1  |



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 51.967 ug/L

RT: 9.59 min Scan# 2567

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

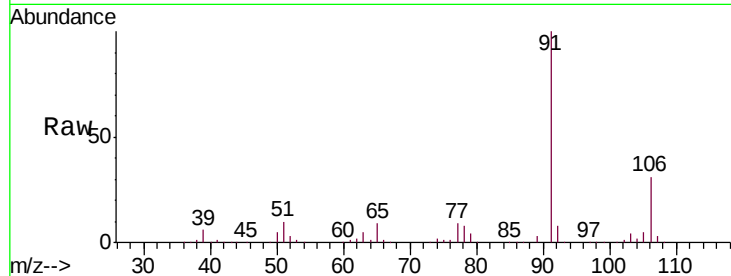
VSTD05060

Tgt Ion: 91 Resp: 458829

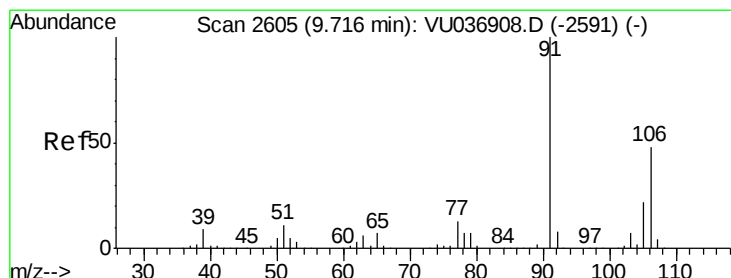
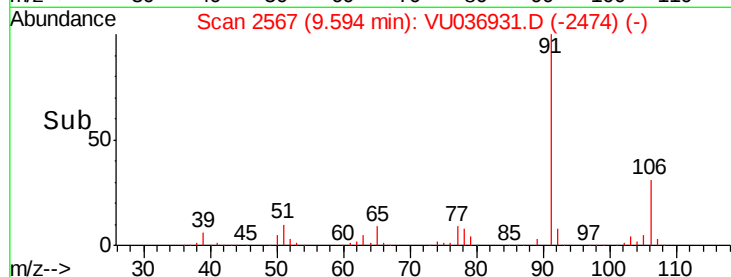
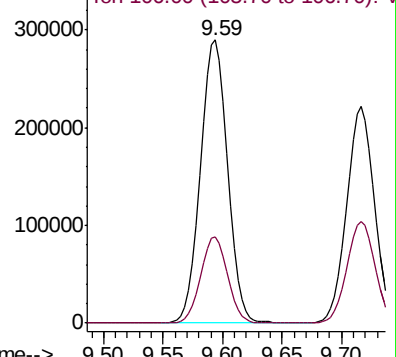
Ion Ratio Lower Upper

91 100

106 30.6 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VU036931.D (-2474) (-)



#53

m,p-Xylene

Concen: 53.160 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VU036931.D

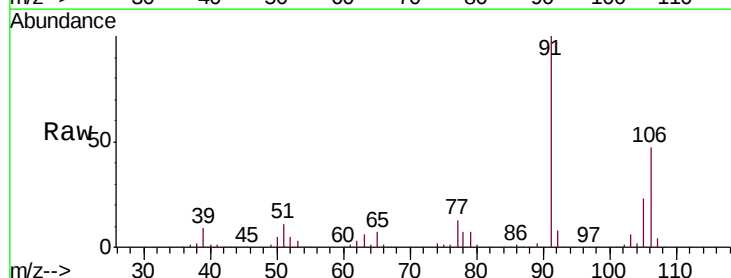
Acq: 27 Feb 2020 09:52

Tgt Ion: 106 Resp: 172171

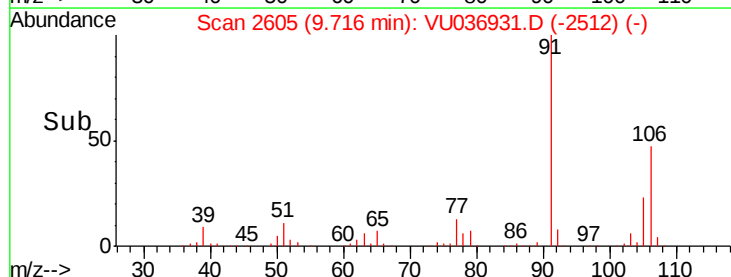
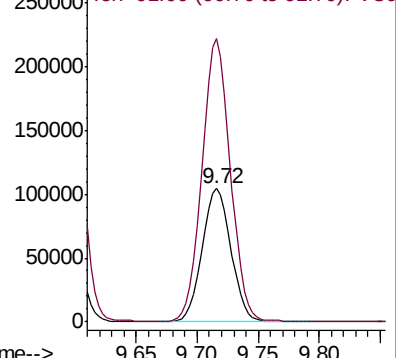
Ion Ratio Lower Upper

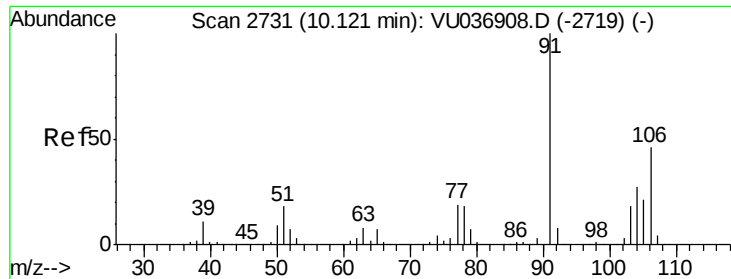
106 100

91 212.0 145.3 269.9



Abundance Ion 106.00 (105.70 to 106.70): VU036931.D (-2512) (-)





#54

o-xylene

Concen: 52.209 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

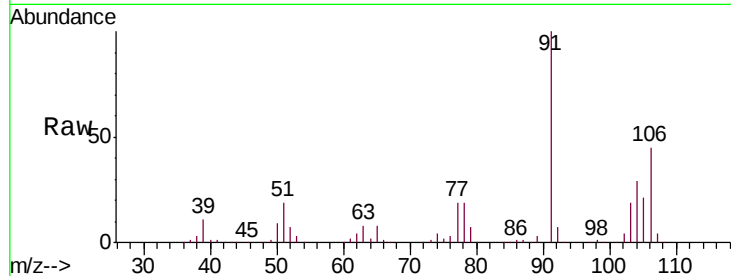
VSTD05060

Tgt Ion:106 Resp: 168644

Ion Ratio Lower Upper

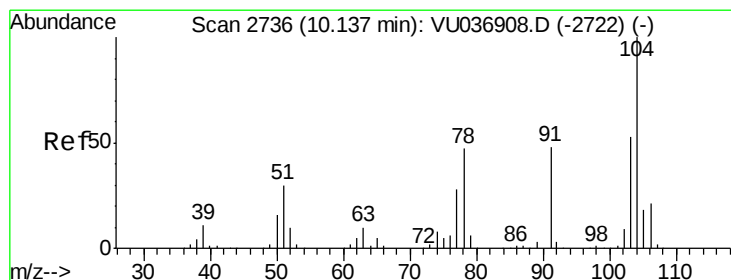
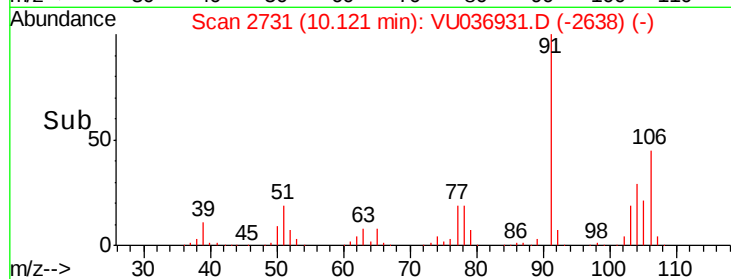
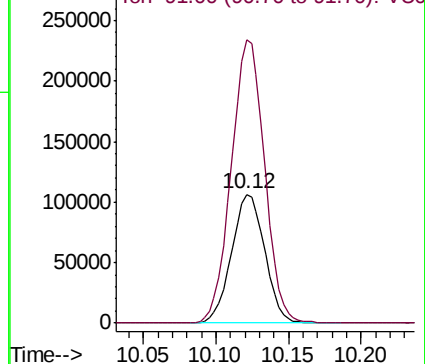
106 100

91 219.8 154.2 286.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.617 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. -0.00 min

Lab File: VU036931.D

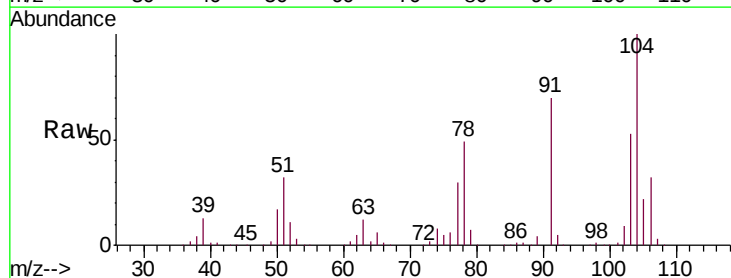
Acq: 27 Feb 2020 09:52

Tgt Ion:104 Resp: 283121

Ion Ratio Lower Upper

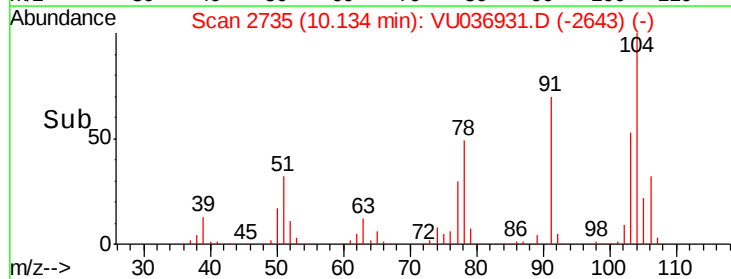
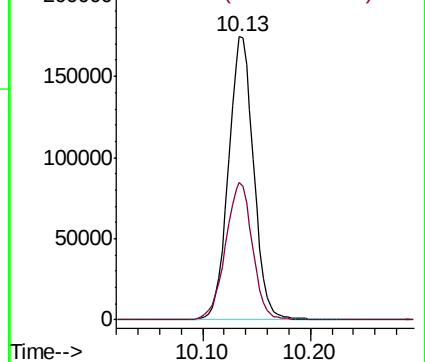
104 100

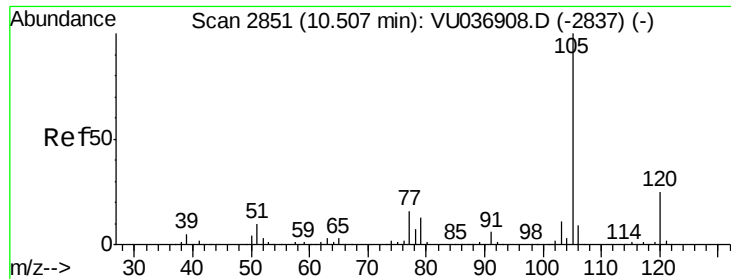
78 48.8 33.0 61.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.379 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05060

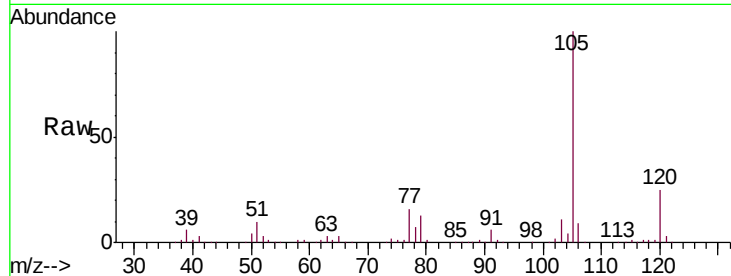
Tgt Ion: 105 Resp: 434564

Ion Ratio Lower Upper

105 100

120 25.5 20.5 30.7

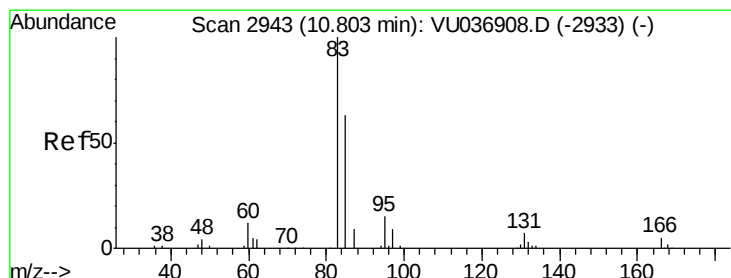
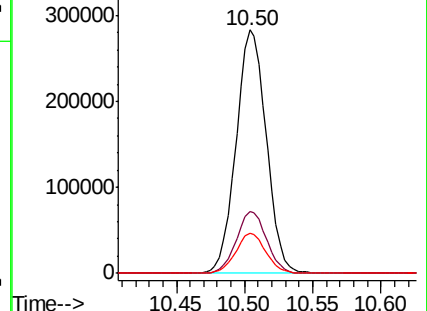
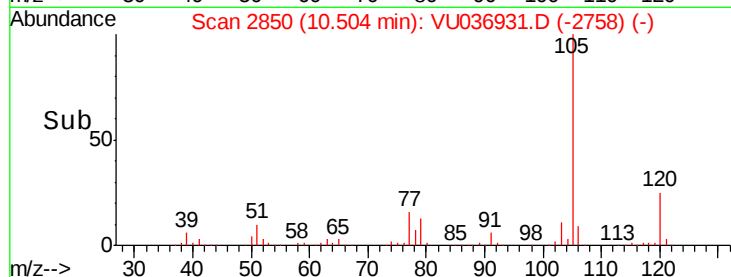
77 16.3 13.1 19.7



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: 52.004 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

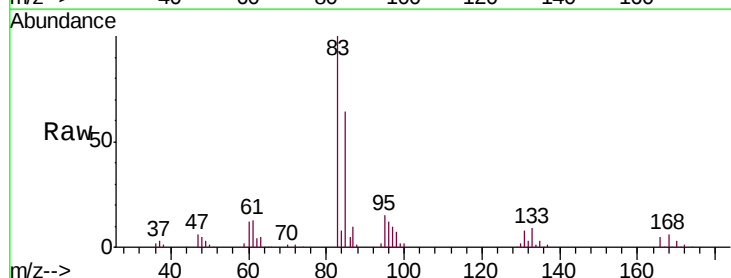
Tgt Ion: 83 Resp: 170178

Ion Ratio Lower Upper

83 100

85 64.2 45.5 84.5

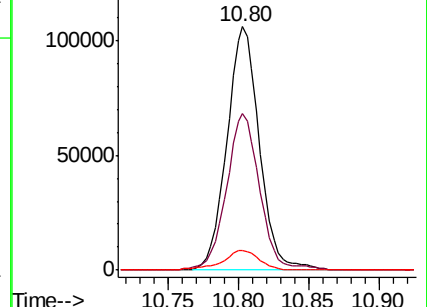
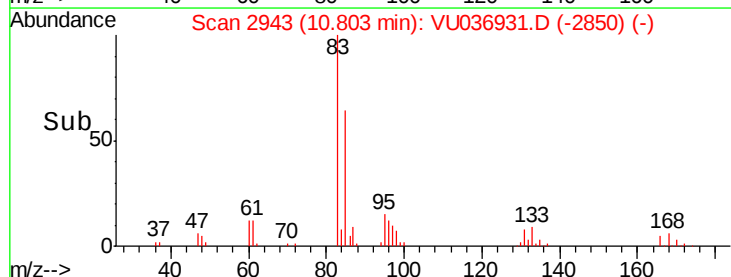
131 8.2 6.8 10.2

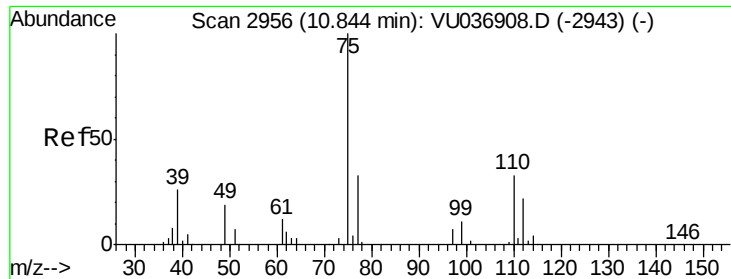


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 51.517 ug/L

RT: 10.84 min Scan# 2956

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

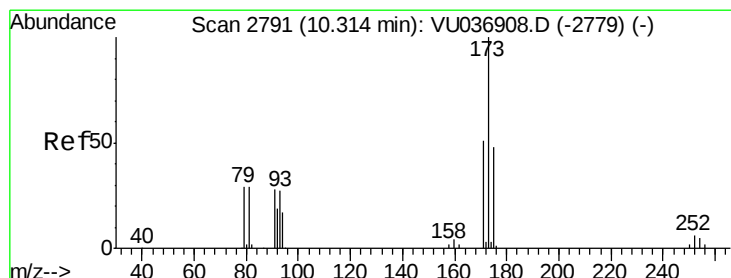
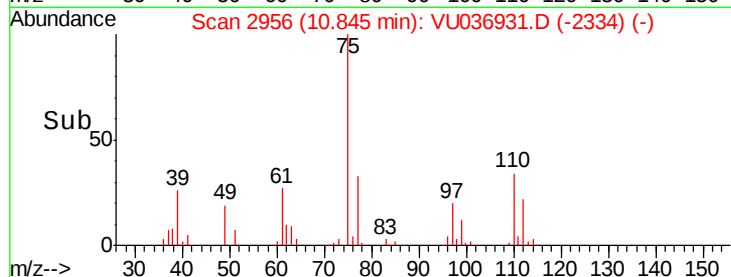
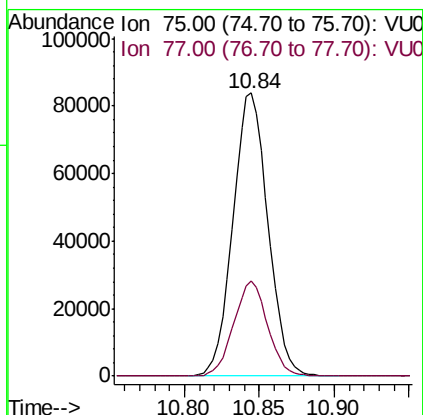
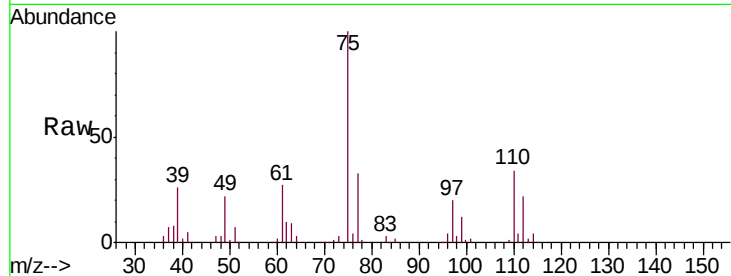
VSTD05060

Tgt Ion: 75 Resp: 136415

Ion Ratio Lower Upper

75 100

77 32.4 26.2 39.2



#61

Bromoform

Concen: 51.504 ug/L

RT: 10.31 min Scan# 2791

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

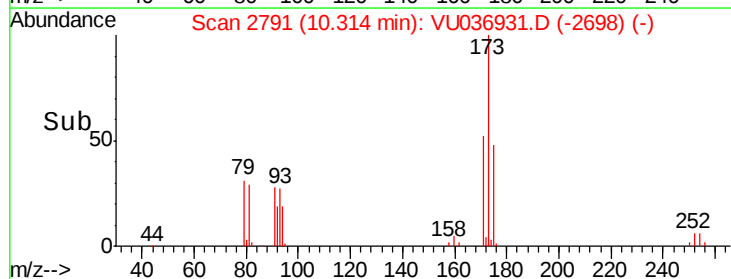
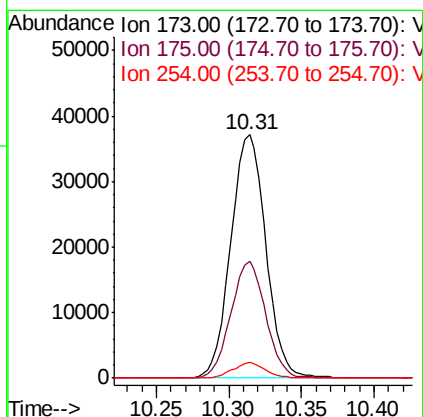
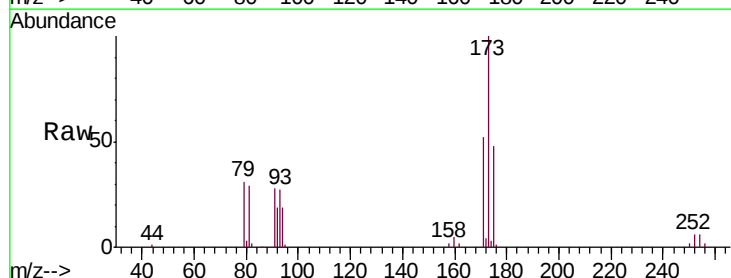
Tgt Ion: 173 Resp: 62252

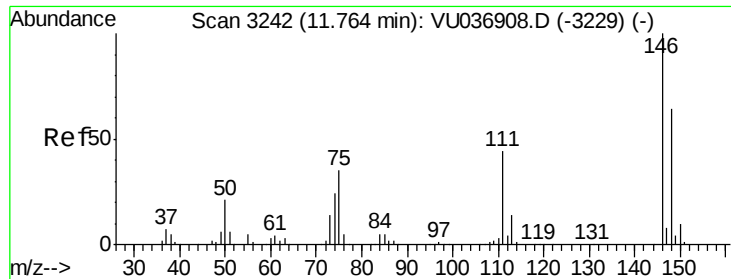
Ion Ratio Lower Upper

173 100

175 47.6 39.0 58.6

254 5.9 4.6 6.8





#62

1,3-Dichlorobenzene

Concen: 51.913 ug/L

RT: 11.76 min Scan# 3242

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05060

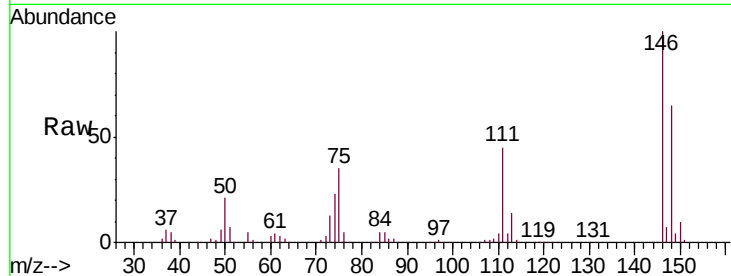
Tgt Ion:146 Resp: 180040

Ion Ratio Lower Upper

146 100

111 44.7 30.7 56.9

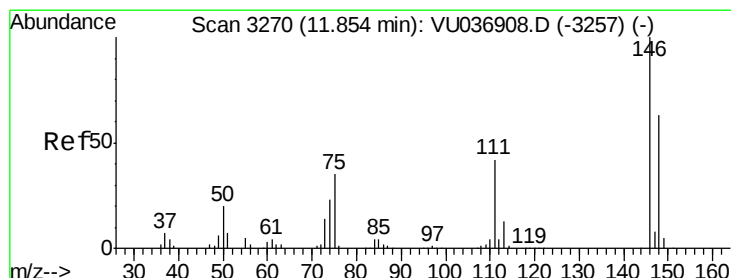
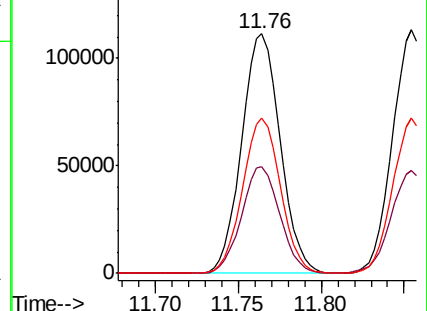
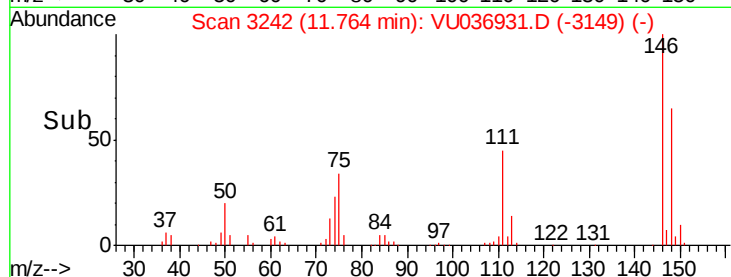
148 65.0 44.2 82.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 52.250 ug/L

RT: 11.85 min Scan# 3270

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

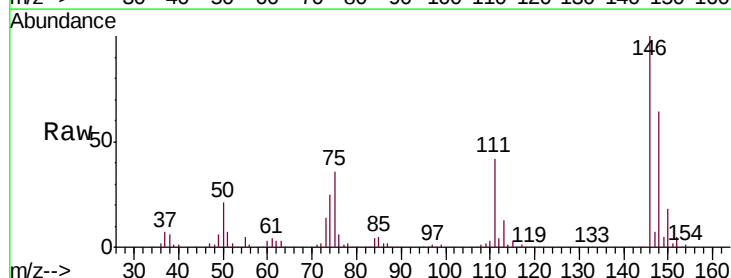
Tgt Ion:146 Resp: 179029

Ion Ratio Lower Upper

146 100

111 42.3 29.8 55.4

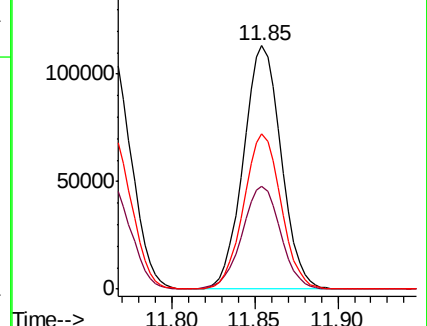
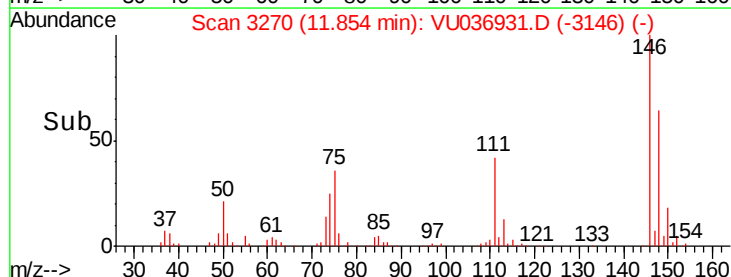
148 63.7 45.1 83.9

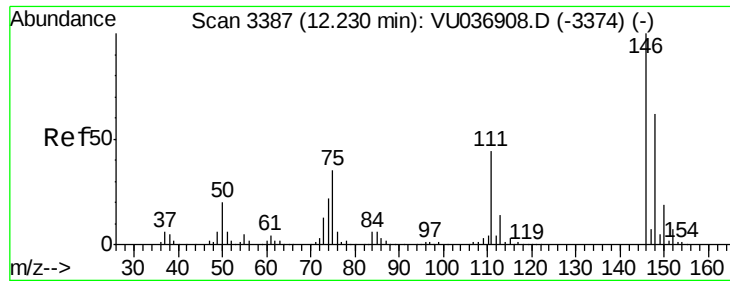


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 51.698 ug/L

RT: 12.23 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05060

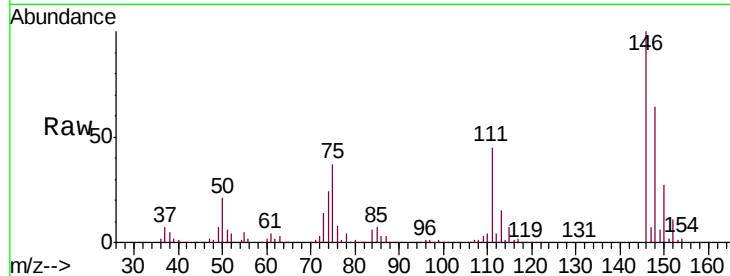
Tgt Ion:146 Resp: 179017

Ion Ratio Lower Upper

146 100

111 45.1 35.4 53.0

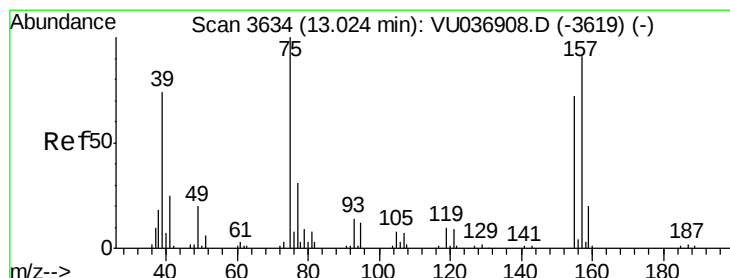
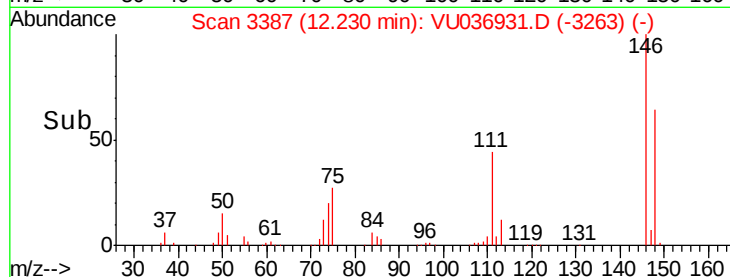
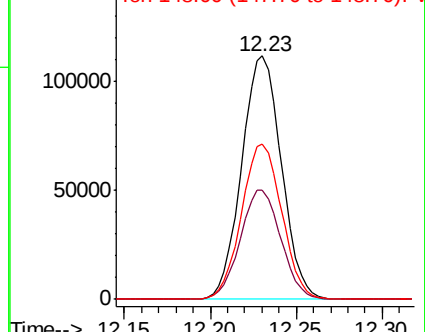
148 64.0 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 52.070 ug/L

RT: 13.02 min Scan# 3634

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

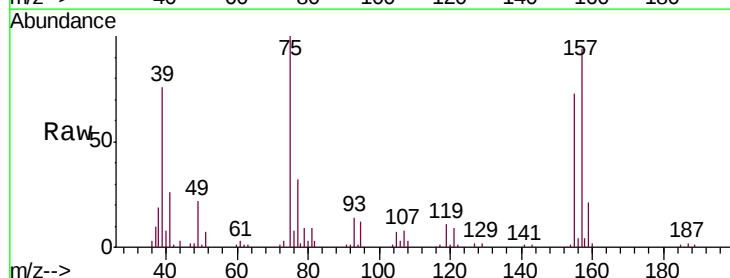
Tgt Ion: 75 Resp: 35771

Ion Ratio Lower Upper

75 100

155 73.3 55.7 83.5

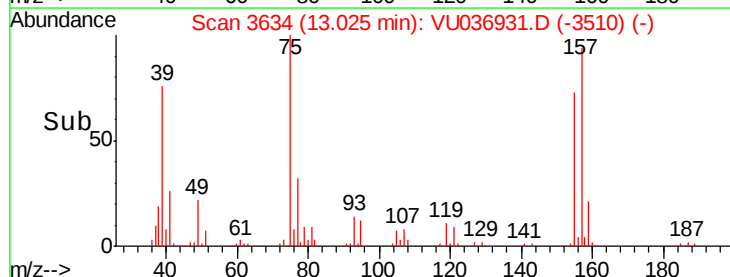
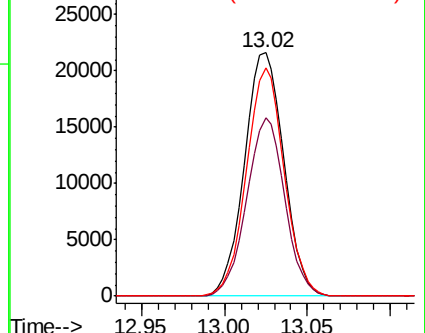
157 94.0 73.0 109.6

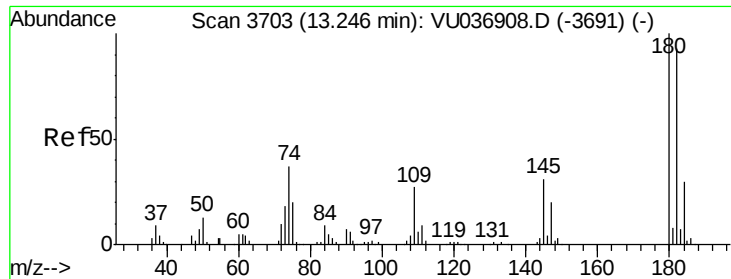


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

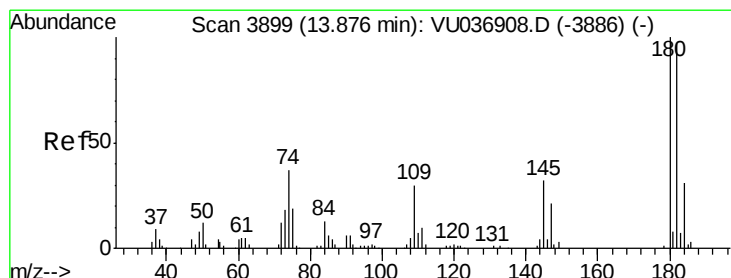
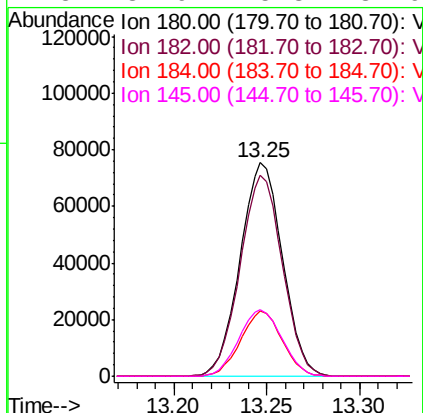
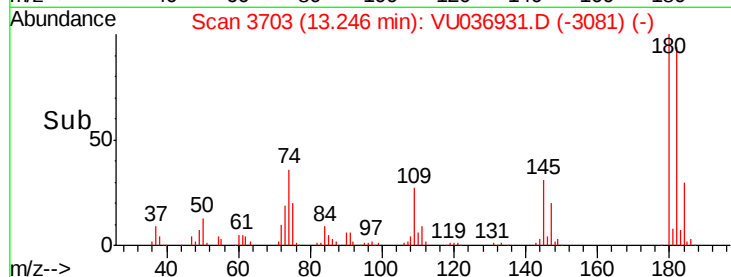
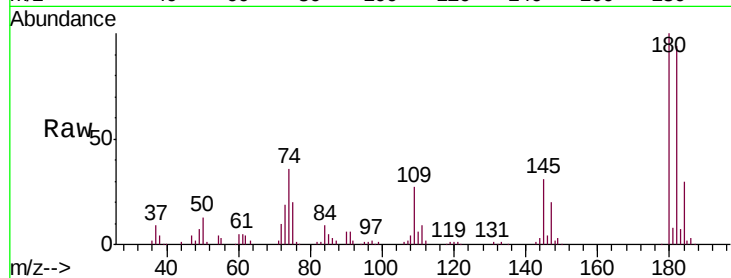




#67  
 1,3,5-Trichlorobenzene  
 Concen: 54.290 ug/L  
 RT: 13.25 min Scan# 3703  
 Delta R.T. 0.00 min  
 Lab File: VU036931.D  
 Acq: 27 Feb 2020 09:52

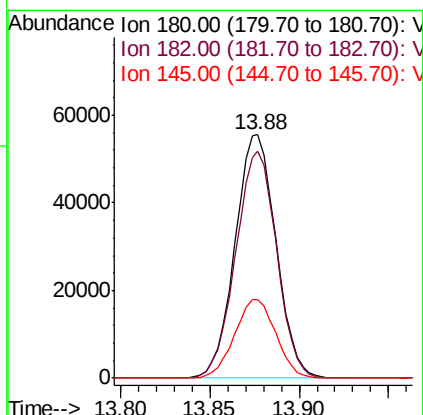
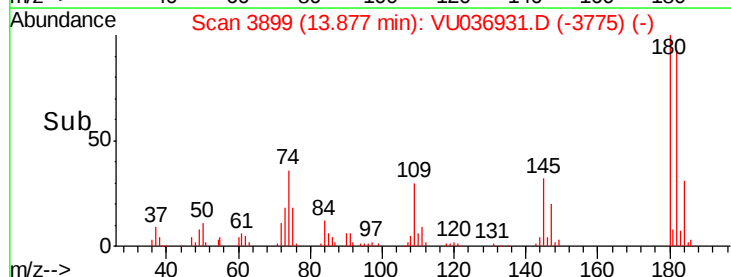
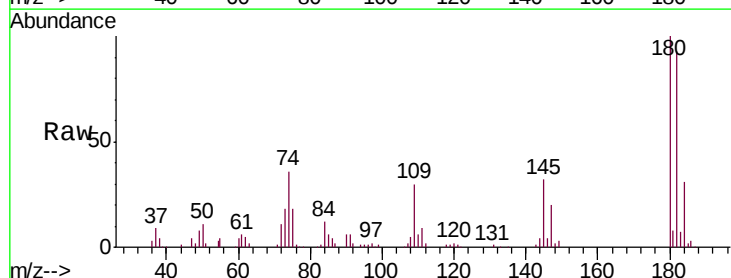
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05060

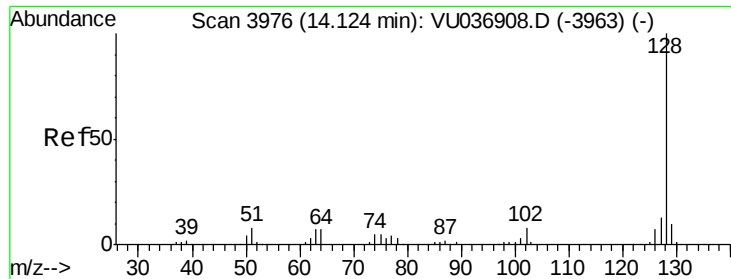
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.1  | 76.9  | 115.3 |
| 184     | 30.0  | 24.2  | 36.2  |
| 145     | 31.9  | 25.3  | 37.9  |



#68  
 1,2,4-trichlorobenzene  
 Concen: 53.794 ug/L  
 RT: 13.88 min Scan# 3899  
 Delta R.T. 0.00 min  
 Lab File: VU036931.D  
 Acq: 27 Feb 2020 09:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 92.8  | 75.3  | 112.9 |
| 145     | 32.5  | 26.2  | 39.4  |





#69

Naphthalene

Concen: 46.052 ug/L

RT: 14.12 min Scan# 3976

Delta R.T. 0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05060

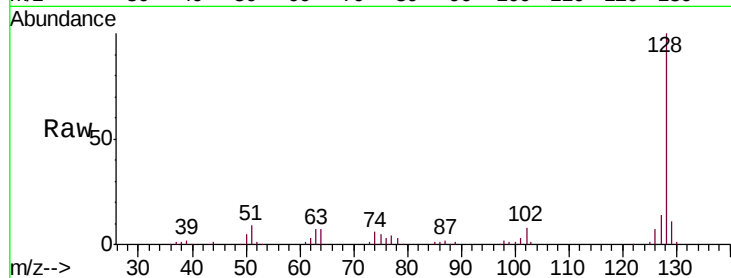
Tgt Ion:128 Resp: 134075

Ion Ratio Lower Upper

128 100

127 13.5 11.0 16.4

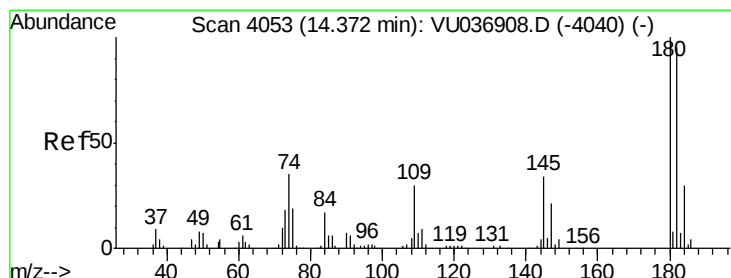
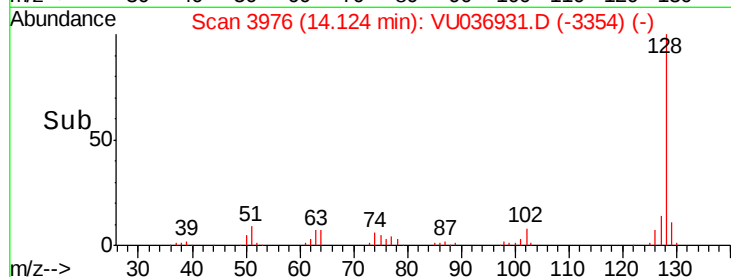
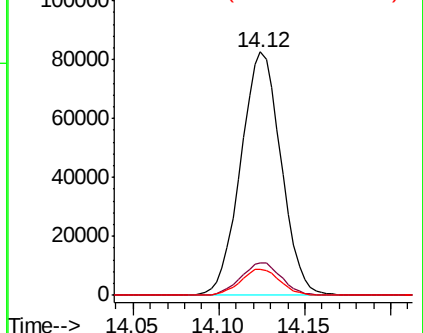
129 10.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 52.363 ug/L

RT: 14.37 min Scan# 4052

Delta R.T. -0.00 min

Lab File: VU036931.D

Acq: 27 Feb 2020 09:52

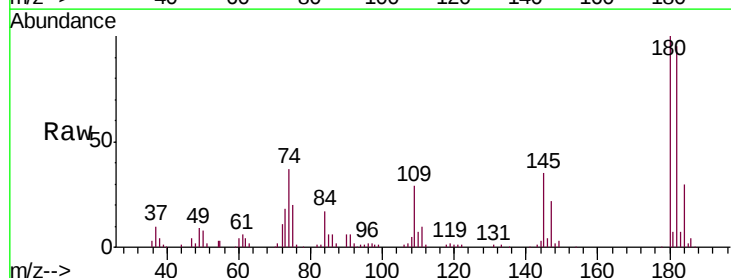
Tgt Ion:180 Resp: 86300

Ion Ratio Lower Upper

180 100

182 96.4 77.0 115.6

145 34.4 28.1 42.1



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

