

Data File : VU036388.D  
Acq On : 02 Jan 2020 11:26  
Operator : JC/MD  
Sample : VSTDCCC005  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00511

Quant Time: Jan 03 00:33:47 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR122819WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jan 02 16:29:47 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 301843   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 292223   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 136479   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 87822    | 4.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 80.20%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 90091    | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 182886   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.20%  |
| 20) 2-Butanone-d5              | 4.69   | 46    | 301613   | 53.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.84% |
| 24) Chloroform-d               | 5.11   | 84    | 212822   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 113694   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 32) Benzene-d6                 | 5.77   | 84    | 393409   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 129572   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.80%  |
| 41) Toluene-d8                 | 7.93   | 98    | 372410   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.80%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 57364    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.80%  |
| 46) 2-Hexanone-d5              | 8.67   | 63    | 276068   | 51.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 102.90% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 114633   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 138367   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.00%  |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 107072 | 4.441 ug/L   | 99     |
| 3) Chloromethane               | 1.54 | 50  | 102962 | 4.417 ug/L   | 99     |
| 5) Vinyl chloride              | 1.62 | 62  | 114005 | 4.514 ug/L   | 100    |
| 6) Bromomethane                | 1.87 | 94  | 64227  | 4.413 ug/L   | 93     |
| 8) Chloroethane                | 1.95 | 64  | 66433  | 4.445 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 160145 | 4.470 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 87725  | 4.709 ug/L   | 98     |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 86040  | 4.683 ug/L   | 94     |
| 13) Acetone                    | 2.67 | 43  | 158055 | 43.860 ug/L  | 96     |
| 14) Carbon disulfide           | 2.82 | 76  | 271781 | 4.510 ug/L   | 98     |
| 15) Methyl Acetate             | 2.99 | 43  | 37968  | 4.774 ug/L   | 100    |
| 16) Methylene chloride         | 3.08 | 84  | 100720 | 4.318 ug/L   | 99     |
| 17) Methyl tert-butyl Ether    | 3.41 | 73  | 254545 | 4.789 ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 92076  | 4.476 ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 179296 | 4.813 ug/L   | 97     |
| 21) 2-Butanone                 | 4.77 | 43  | 293749 | 50.376 ug/L  | 100    |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 107803 | 4.669 ug/L # | 98     |

Data File : VU036388.D  
Acq On : 02 Jan 2020 11:26  
Operator : JC/MD  
Sample : VSTDCCC005  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00511

Quant Time: Jan 03 00:33:47 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR122819WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jan 02 16:29:47 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 5.02  | 128  | 45550    | 4.735  | ug/L   | 94       |
| 25) Chloroform                 | 5.13  | 83   | 183421   | 4.638  | ug/L   | 98       |
| 27) 1,2-Dichloroethane         | 5.84  | 62   | 121828   | 4.678  | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane      | 5.36  | 97   | 168766   | 4.643  | ug/L   | 99       |
| 30) Cyclohexane                | 5.43  | 56   | 167958   | 4.645  | ug/L   | 93       |
| 31) Carbon tetrachloride       | 5.56  | 117  | 143855   | 4.654  | ug/L   | 96       |
| 33) Benzene                    | 5.81  | 78   | 403073   | 4.655  | ug/L   | 100      |
| 34) Trichloroethene            | 6.58  | 95   | 109283   | 4.686  | ug/L   | 98       |
| 35) Methylcyclohexane          | 6.80  | 83   | 186576   | 5.048  | ug/L   | 97       |
| 37) 1,2-Dichloropropane        | 6.83  | 63   | 104095   | 4.660  | ug/L   | 100      |
| 38) Bromodichloromethane       | 7.14  | 83   | 144680   | 4.693  | ug/L # | 96       |
| 39) cis-1,3-Dichloropropene    | 7.64  | 75   | 172373   | 4.707  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone       | 7.83  | 43   | 730875   | 46.452 | ug/L   | 99       |
| 42) Toluene                    | 8.00  | 91   | 443539   | 4.630  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene  | 8.24  | 75   | 139405   | 4.634  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 75773    | 4.665  | ug/L   | 98       |
| 47) Tetrachloroethene          | 8.58  | 164  | 77281    | 4.708  | ug/L   | 99       |
| 48) 2-Hexanone                 | 8.72  | 43   | 527493   | 47.365 | ug/L   | 99       |
| 49) Dibromochloromethane       | 8.84  | 129  | 97256    | 4.525  | ug/L   | 93       |
| 50) 1,2-Dibromoethane          | 8.95  | 107  | 76074    | 4.620  | ug/L # | 99       |
| 51) Chlorobenzene              | 9.47  | 112  | 282522   | 4.729  | ug/L   | 99       |
| 52) Ethylbenzene               | 9.60  | 91   | 513076   | 4.832  | ug/L   | 98       |
| 53) m,p-Xylene                 | 9.72  | 106  | 193495   | 4.742  | ug/L   | 97       |
| 54) o-Xylene                   | 10.12 | 106  | 189610   | 4.784  | ug/L   | 100      |
| 55) Styrene                    | 10.14 | 104  | 314724   | 4.672  | ug/L   | 99       |
| 56) Isopropylbenzene           | 10.51 | 105  | 499276   | 4.745  | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 103056   | 4.706  | ug/L   | 94       |
| 59) 1,2,3-Trichloropropane     | 10.85 | 75   | 71169    | 4.619  | ug/L   | 98       |
| 61) Bromoform                  | 10.32 | 173  | 54154    | 4.449  | ug/L   | 94       |
| 62) 1,3-Dichlorobenzene        | 11.77 | 146  | 217370   | 4.764  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene        | 11.86 | 146  | 215185   | 4.769  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 12.24 | 146  | 207878   | 4.837  | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 17722    | 4.487  | ug/L   | 96       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 154158   | 4.755  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.86 | 180  | 110044   | 4.622  | ug/L   | 99       |
| 69) Naphthalene                | 14.10 | 128  | 153702   | 3.708  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 97758    | 4.259  | ug/L   | 96       |

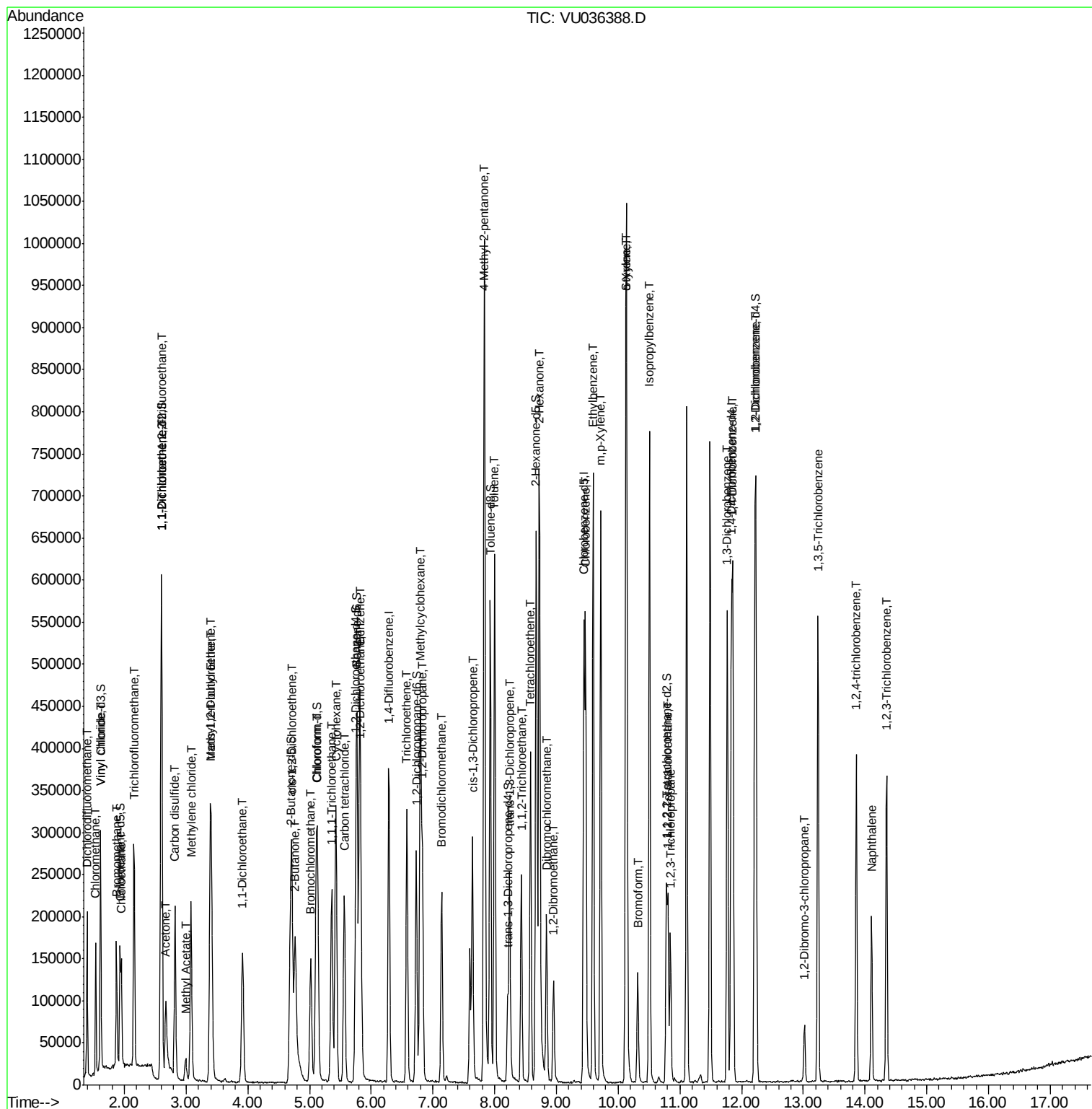
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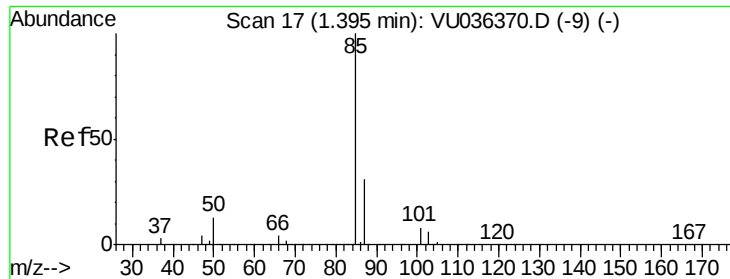
Data File : VU036388.D

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Acq On       : 02 Jan 2020   11:26
Operator     : JC/MD
Sample       : VSTDCCC005
Misc        : 25.0mL/MSV0A_U/WATER
ALS Vial     : 1      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
VSTD00511

Quant Time: Jan 03 00:33:47 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR122819WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jan 02 16:29:47 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.441 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

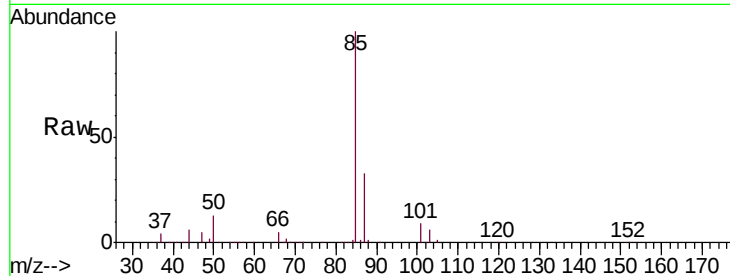
VSTD00511

Tgt Ion: 85 Resp: 107072

Ion Ratio Lower Upper

85 100

87 31.7 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU036370.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036370.D (-9) (-)

1.39

120000

100000

80000

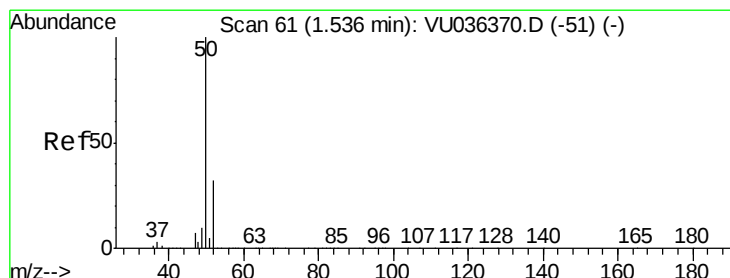
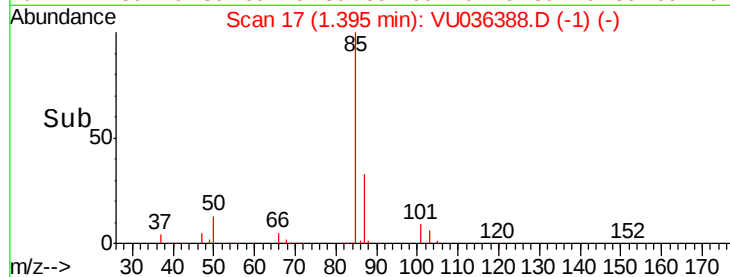
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 4.417 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036388.D

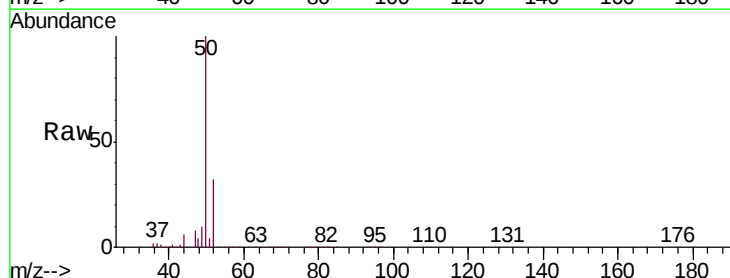
Acq: 02 Jan 2020 11:26

Tgt Ion: 50 Resp: 102962

Ion Ratio Lower Upper

50 100

52 31.9 22.0 40.8



Abundance Ion 50.05 (49.75 to 50.75): VU036370.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU036370.D (-51) (-)

1.54

100000

80000

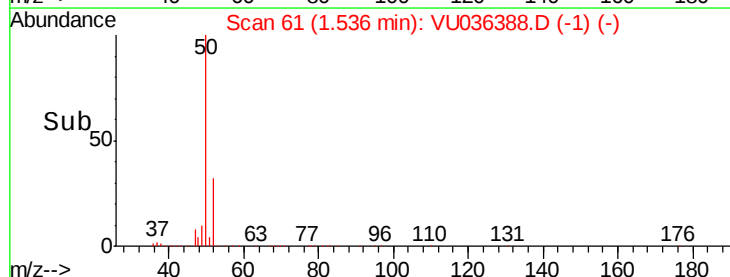
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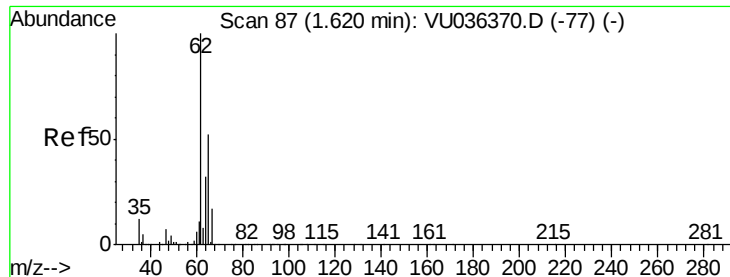
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 4.514 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

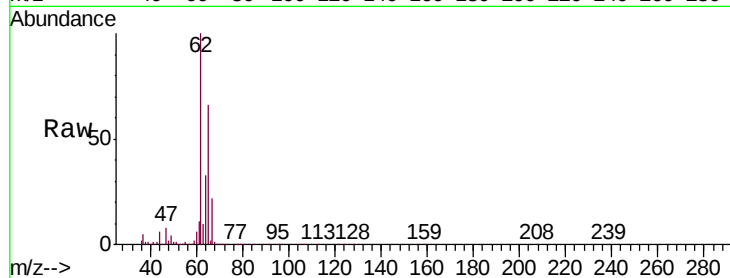
VSTD00511

Tgt Ion: 62 Resp: 114005

Ion Ratio Lower Upper

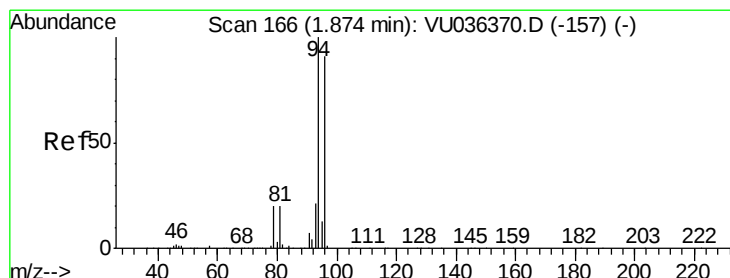
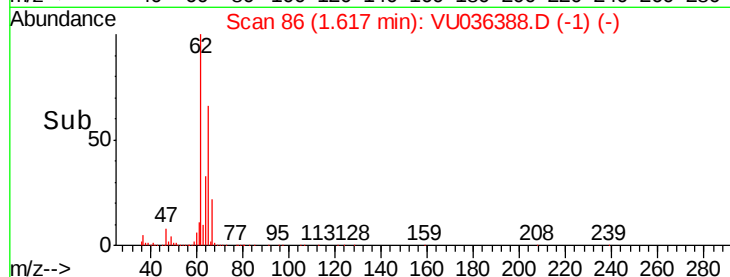
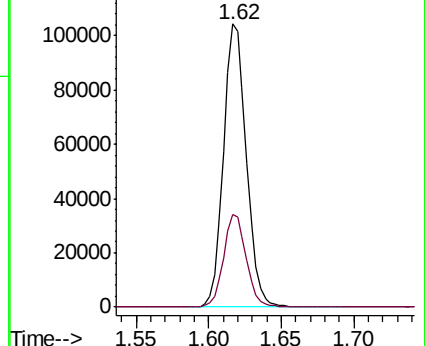
62 100

64 32.6 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU036388.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU036388.D (-1) (-)



#6

Bromomethane

Concen: 4.413 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU036388.D

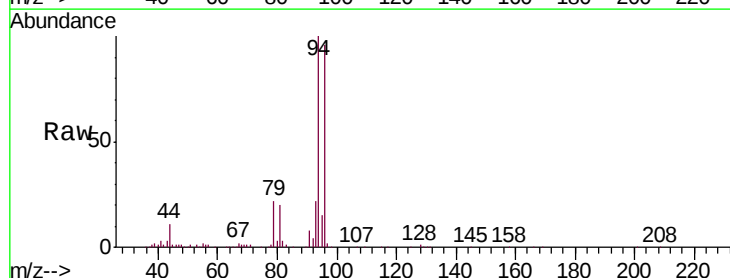
Acq: 02 Jan 2020 11:26

Tgt Ion: 94 Resp: 64227

Ion Ratio Lower Upper

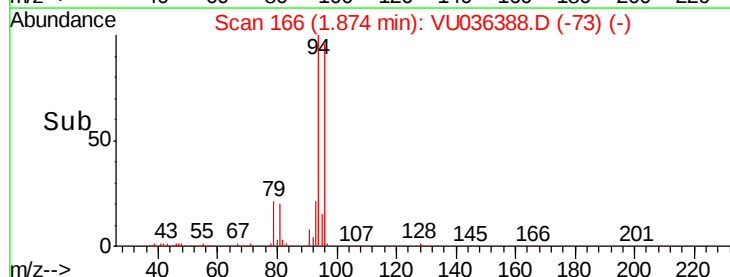
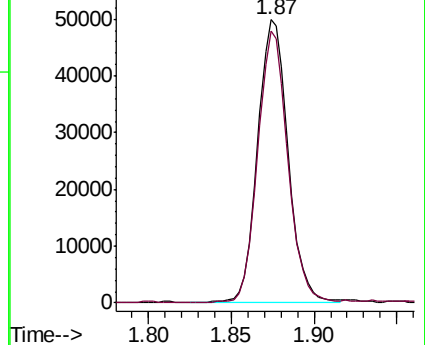
94 100

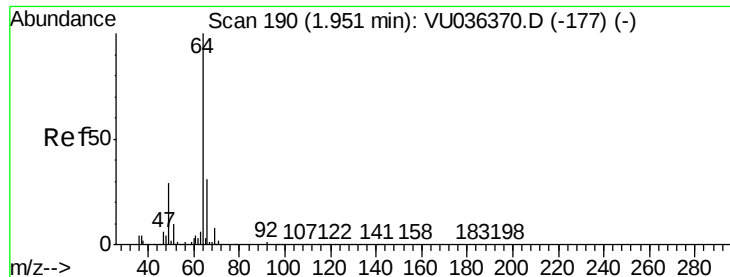
96 96.2 62.9 116.7



Abundance Ion 94.00 (93.70 to 94.70): VU036388.D (-73) (-)

Ion 96.00 (95.70 to 96.70): VU036388.D (-73) (-)





#8

Chloroethane

Concen: 4.445 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

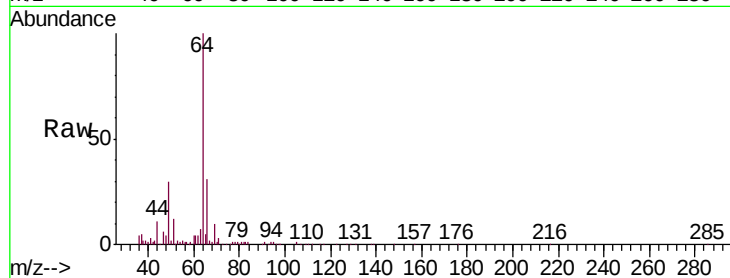
VSTD00511

Tgt Ion: 64 Resp: 66433

Ion Ratio Lower Upper

64 100

66 31.1 23.0 42.6



Abundance Ion 64.10 (63.80 to 64.80): VU036370.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU036370.D (-177) (-)

1.95

60000

50000

40000

30000

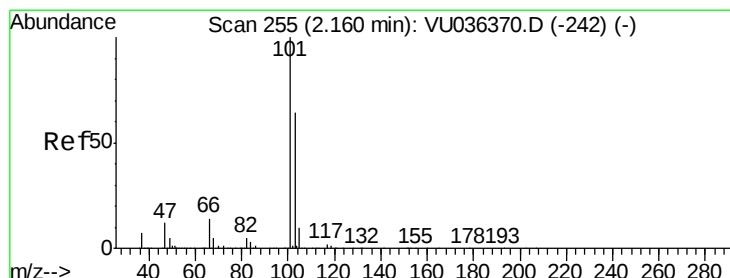
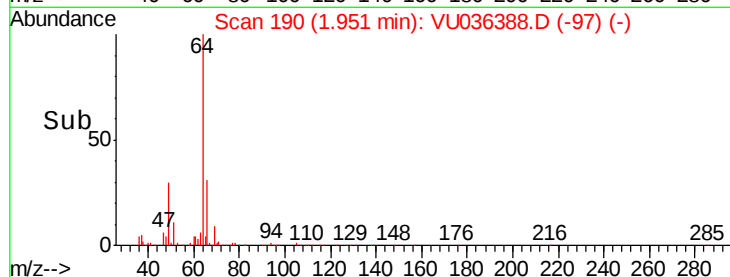
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10000

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 4.470 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU036388.D

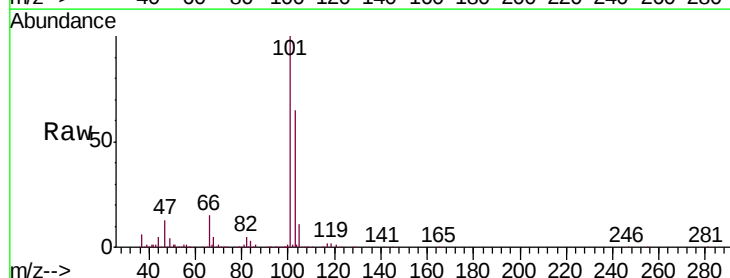
Acq: 02 Jan 2020 11:26

Tgt Ion: 101 Resp: 160145

Ion Ratio Lower Upper

101 100

103 65.7 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): VU036370.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU036370.D (-242) (-)

2.16

120000

100000

80000

60000

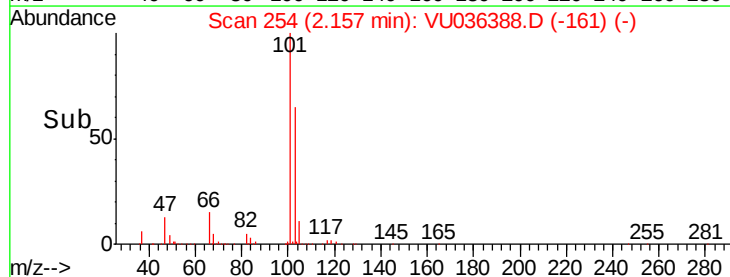
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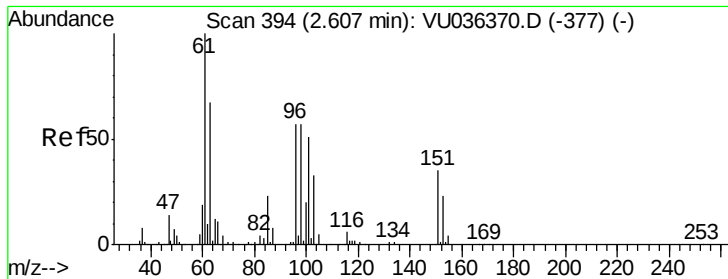
20000

0

2.10 2.15 2.20

Time-->





#10

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

Concen: 4.709 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00511

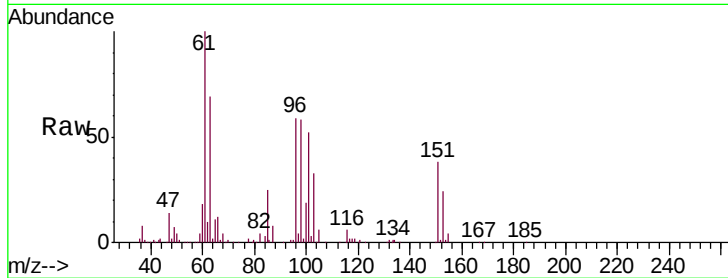
Tgt Ion:101 Resp: 87725

Ion Ratio Lower Upper

101 100

85 47.3 39.1 58.7

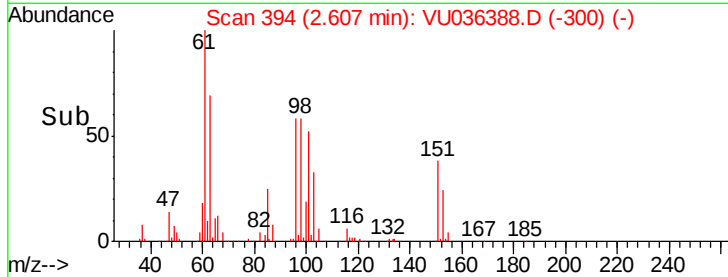
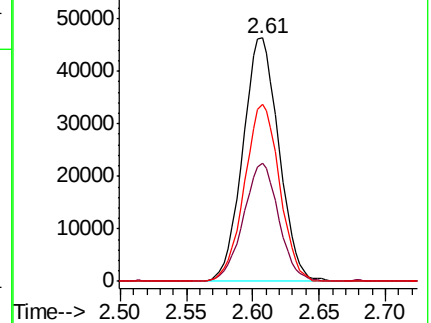
151 70.7 54.9 82.3



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: 4.683 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

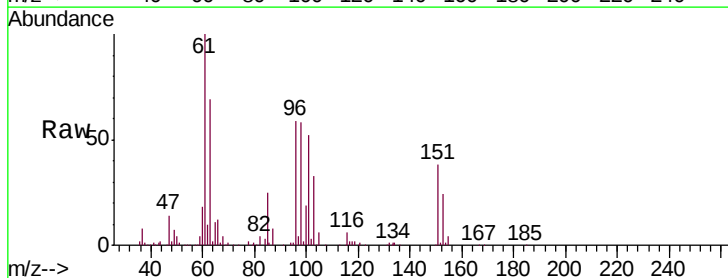
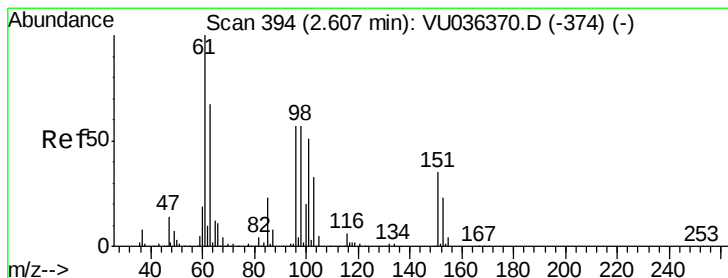
Tgt Ion: 96 Resp: 86040

Ion Ratio Lower Upper

96 100

61 170.5 123.8 230.0

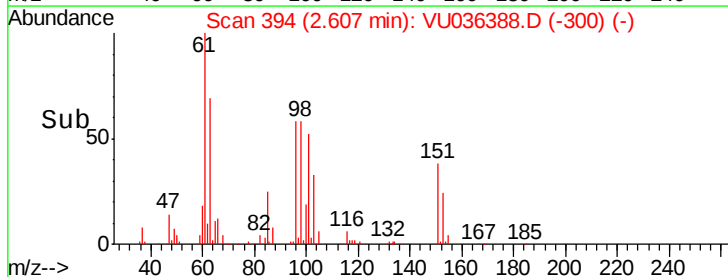
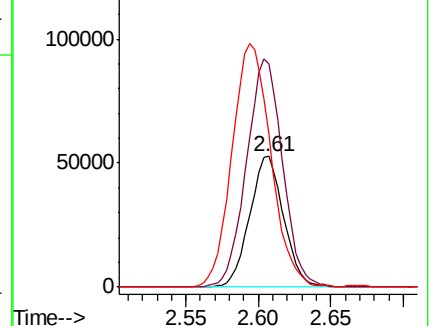
63 117.0 89.0 165.4

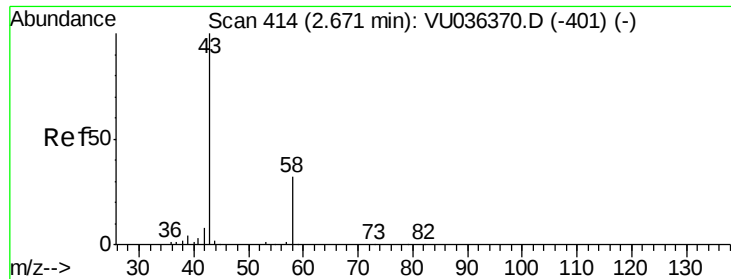


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

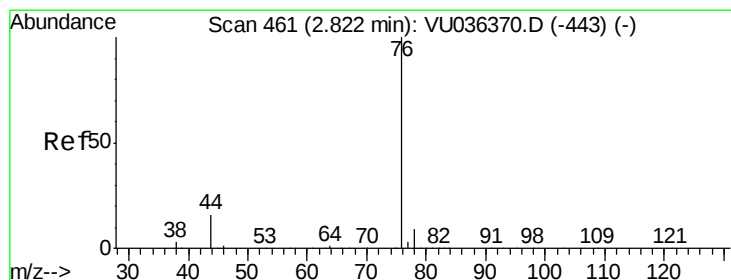
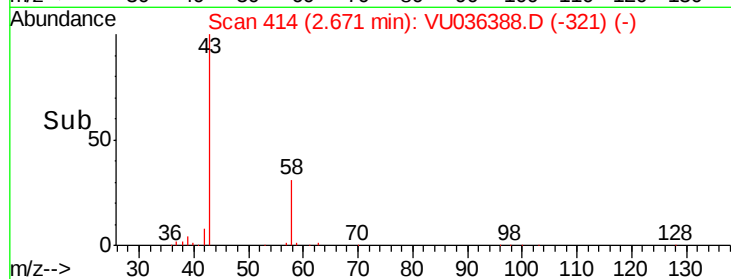
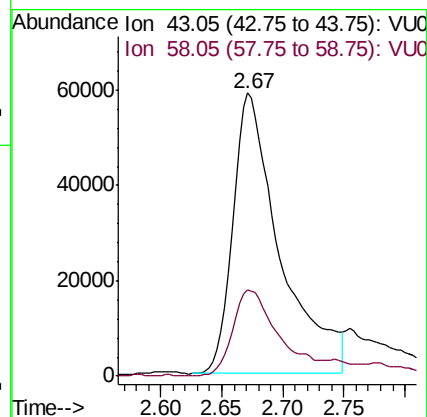
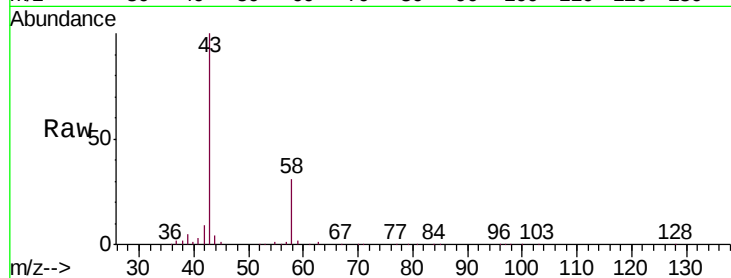




#13  
Acetone  
Concen: 43.860 ug/L  
RT: 2.67 min Scan# 414  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

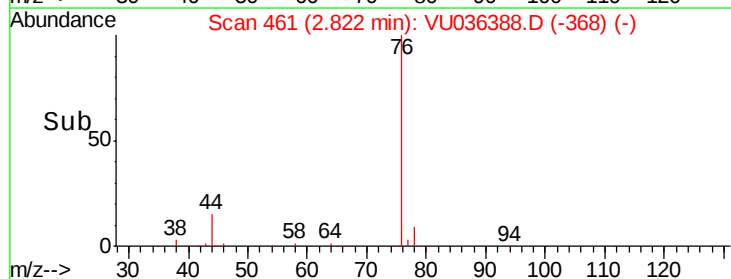
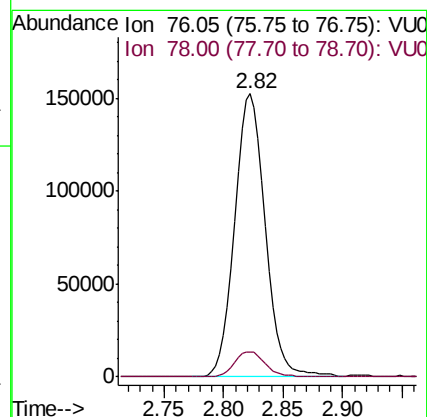
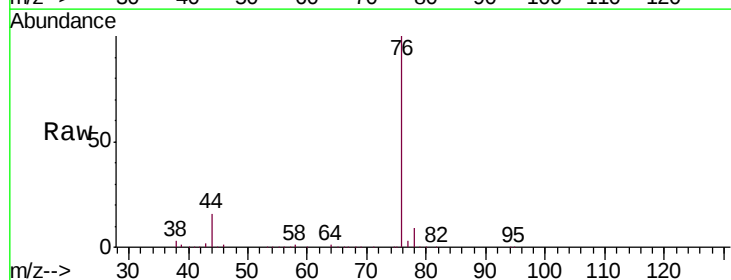
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00511

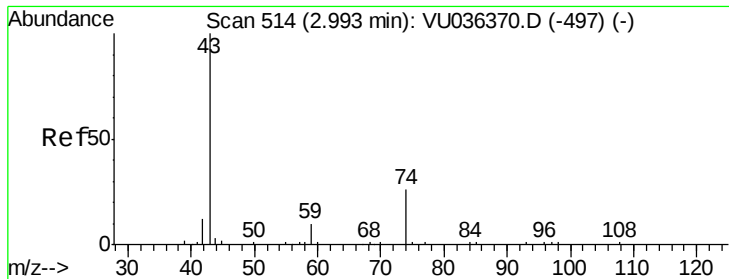
Tgt Ion: 43 Resp: 158055  
Ion Ratio Lower Upper  
43 100  
58 30.5 0.0 57.0



#14  
Carbon disulfide  
Concen: 4.510 ug/L  
RT: 2.82 min Scan# 461  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

Tgt Ion: 76 Resp: 271781  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.6 11.4





#15

Methyl Acetate

Concen: 4.774 ug/L

RT: 2.99 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

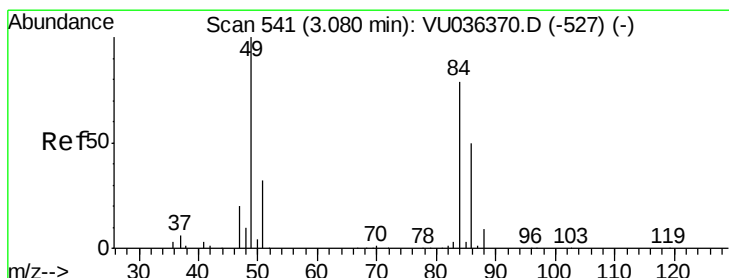
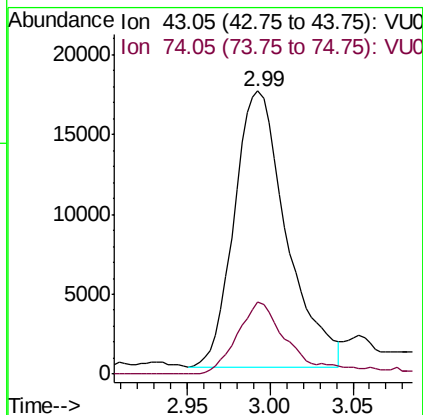
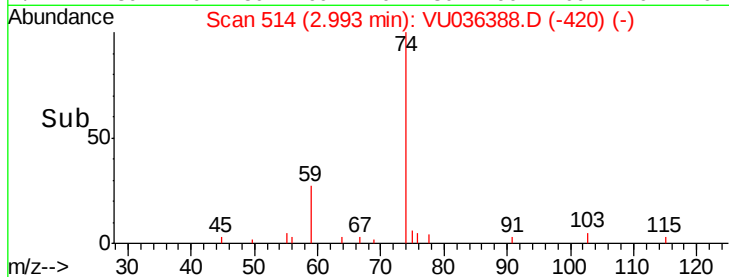
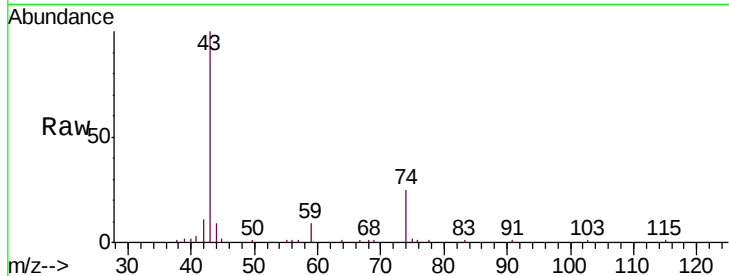
VSTD00511

Tgt Ion: 43 Resp: 37968

Ion Ratio Lower Upper

43 100

74 25.2 20.1 30.1



#16

Methylene chloride

Concen: 4.318 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

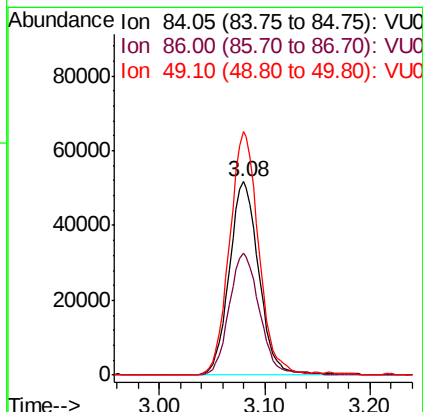
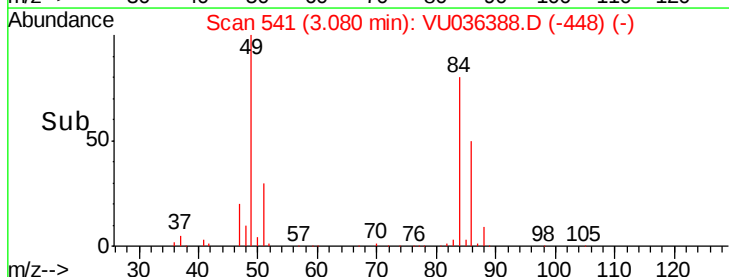
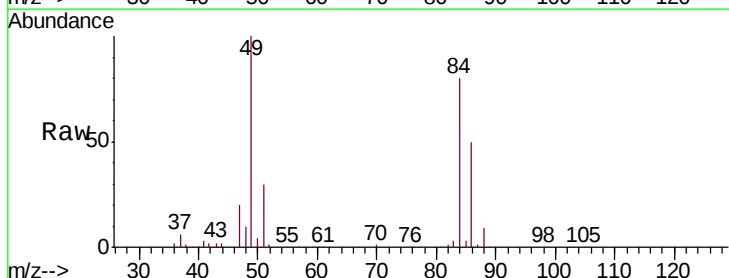
Tgt Ion: 84 Resp: 100720

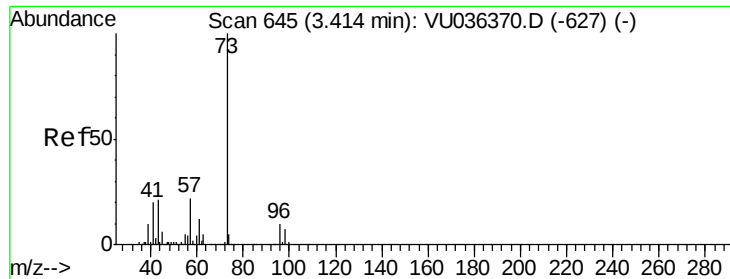
Ion Ratio Lower Upper

84 100

86 63.0 44.4 82.5

49 125.8 89.0 165.2

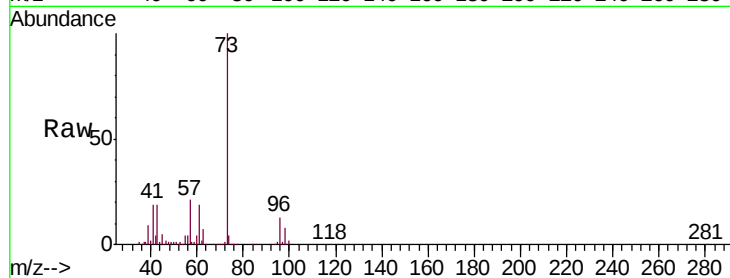




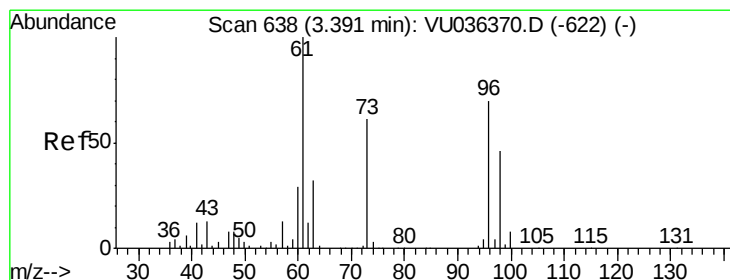
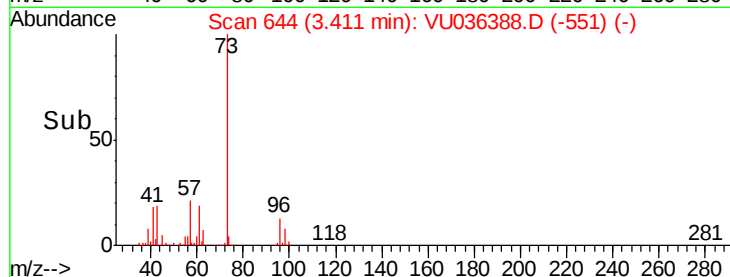
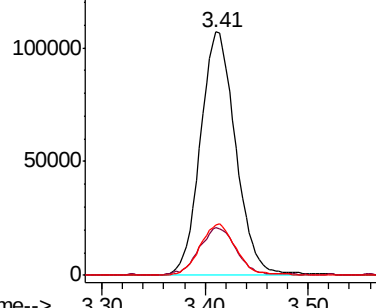
#17  
Methyl tert-butyl Ether  
Concen: 4.789 ug/L  
RT: 3.41 min Scan# 644  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00511

Tgt Ion: 73 Resp: 254545  
Ion Ratio Lower Upper  
73 100  
43 20.3 16.3 24.5  
57 21.8 17.9 26.9

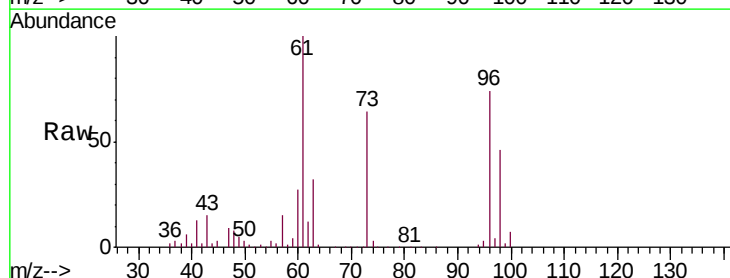


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

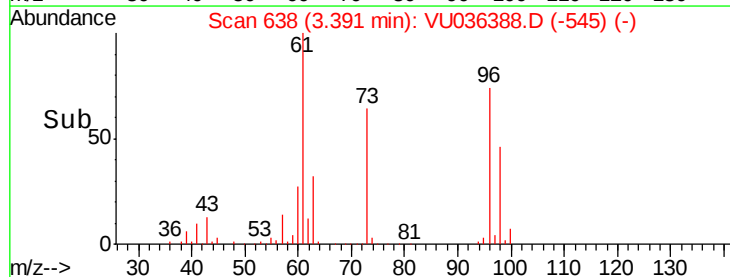
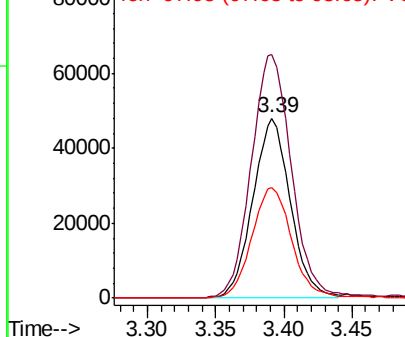


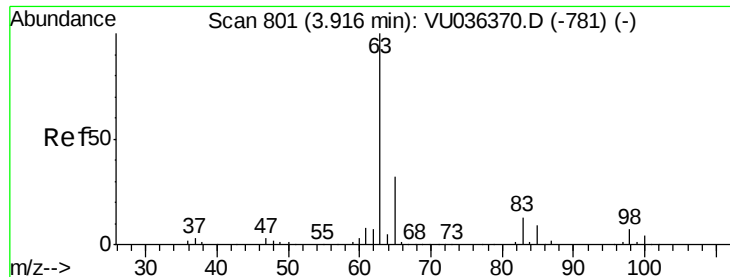
#18  
trans-1,2-Dichloroethene  
Concen: 4.476 ug/L  
RT: 3.39 min Scan# 638  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

Tgt Ion: 96 Resp: 92076  
Ion Ratio Lower Upper  
96 100  
61 135.6 94.8 176.2  
98 61.8 42.3 78.5



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

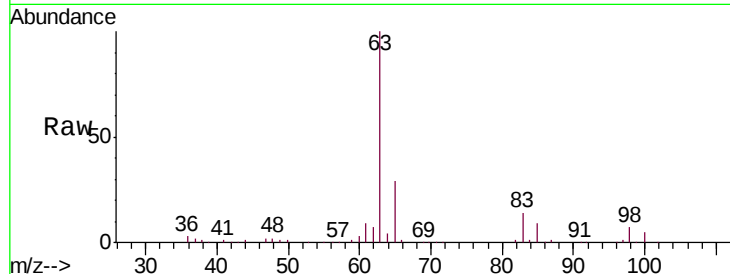




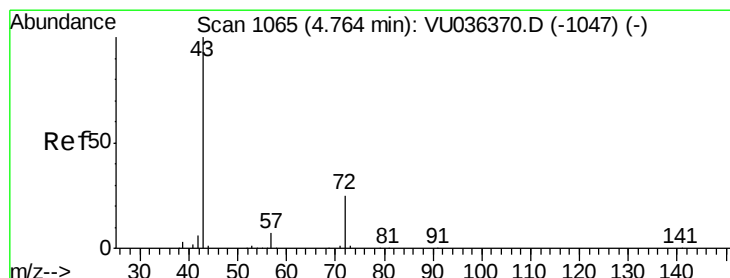
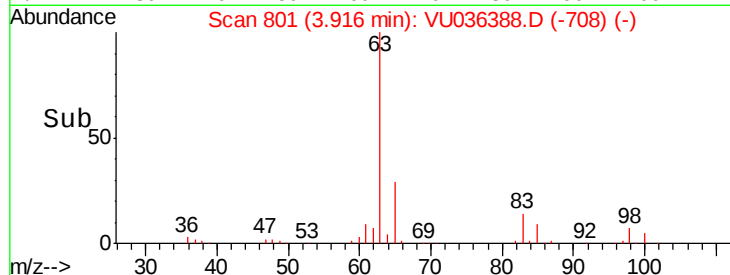
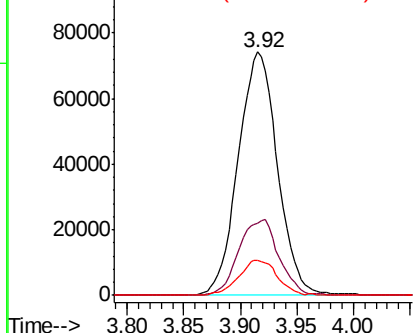
#19  
 1,1-Dichloroethane  
 Concen: 4.813 ug/L  
 RT: 3.92 min Scan# 801  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00511

Tgt Ion: 63 Resp: 179296  
 Ion Ratio Lower Upper  
 63 100  
 65 29.5 21.9 40.7  
 83 14.2 10.6 19.8

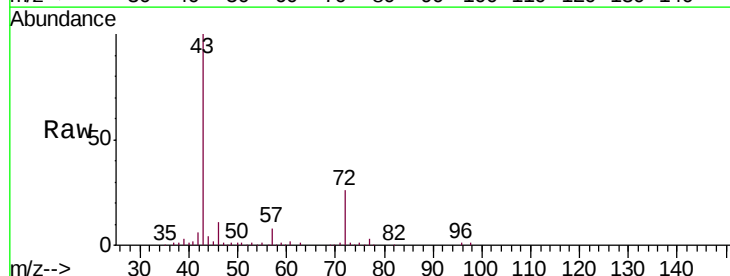


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

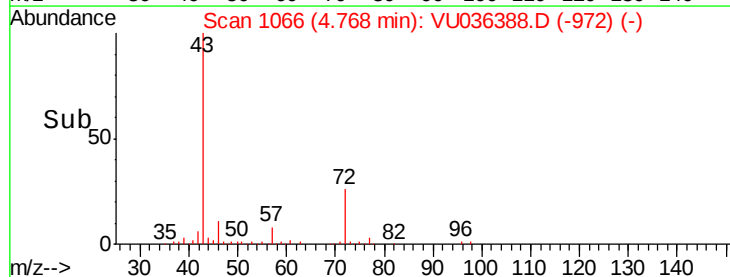
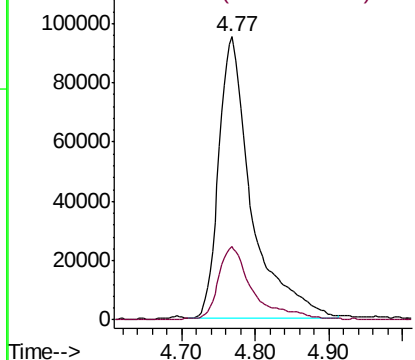


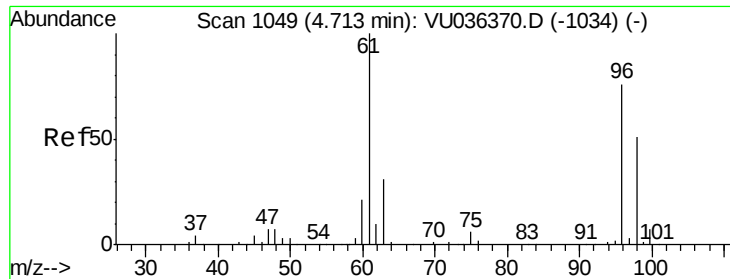
#21  
 2-Butanone  
 Concen: 50.376 ug/L  
 RT: 4.77 min Scan# 1066  
 Delta R.T. 0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Tgt Ion: 43 Resp: 293749  
 Ion Ratio Lower Upper  
 43 100  
 72 24.8 12.5 37.5



Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 72.10 (71.80 to 72.80): VU0

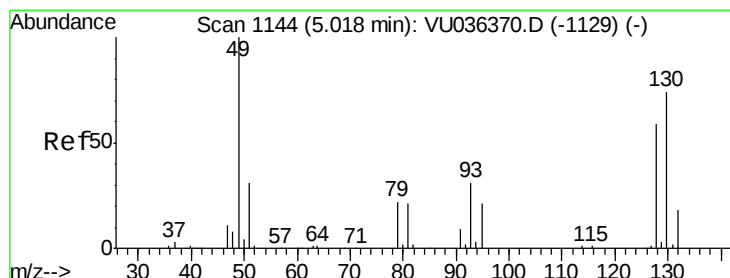
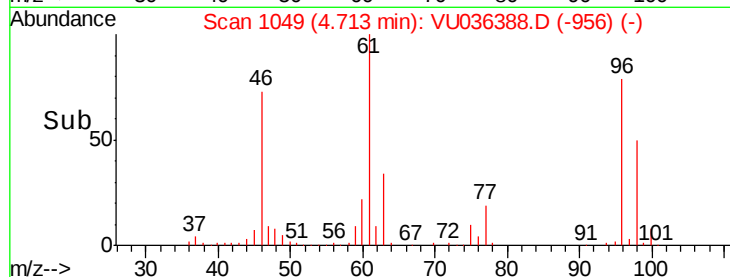
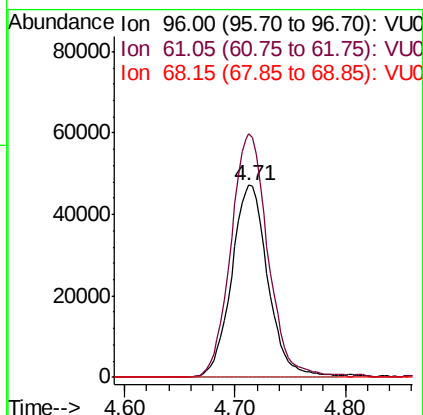
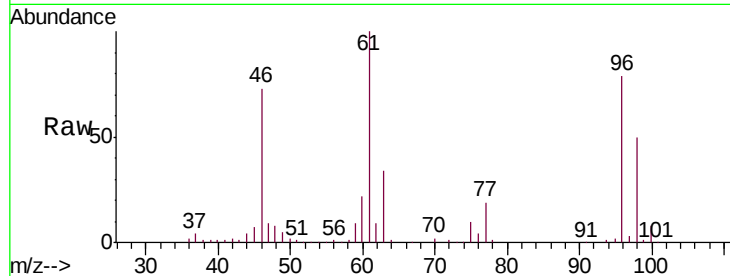




#22  
 cis-1,2-Dichloroethene  
 Concen: 4.669 ug/L  
 RT: 4.71 min Scan# 1049  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

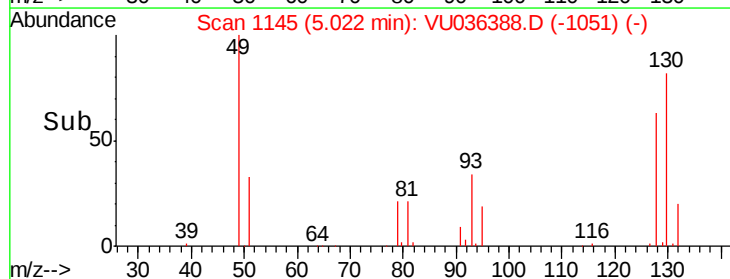
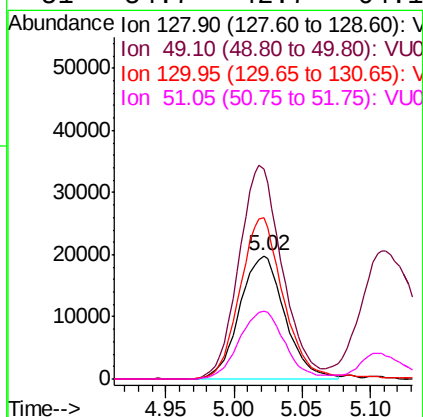
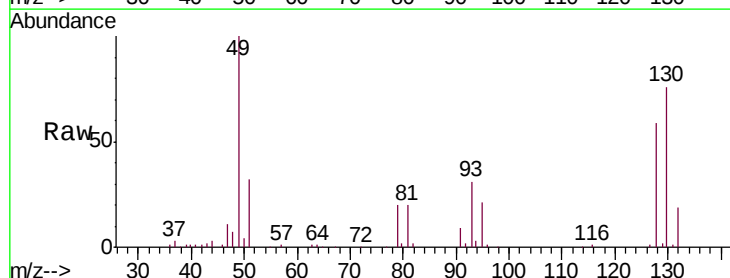
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00511

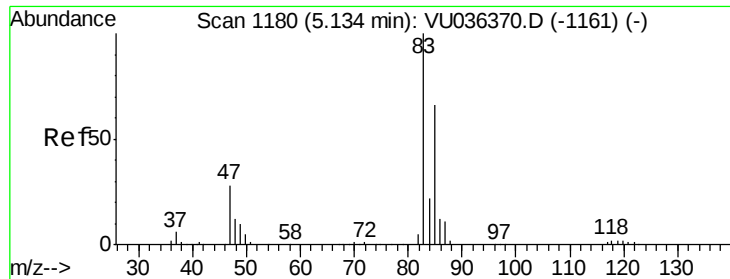
Tgt Ion: 96 Resp: 107803  
 Ion Ratio Lower Upper  
 96 100  
 61 126.9 90.5 168.1  
 68 0.0 0.3 0.5#



#23  
 Bromochloromethane  
 Concen: 4.735 ug/L  
 RT: 5.02 min Scan# 1145  
 Delta R.T. 0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Tgt Ion: 128 Resp: 45550  
 Ion Ratio Lower Upper  
 128 100  
 49 170.7 124.2 230.6  
 130 130.4 99.3 184.3  
 51 54.7 42.7 64.1

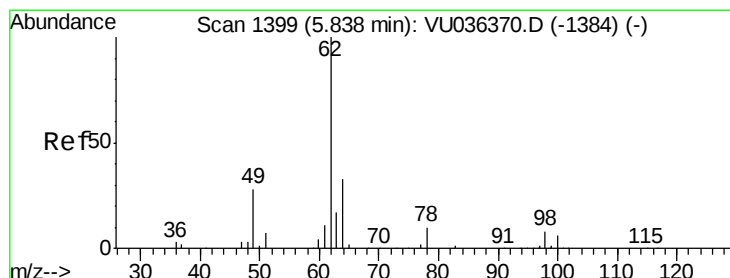
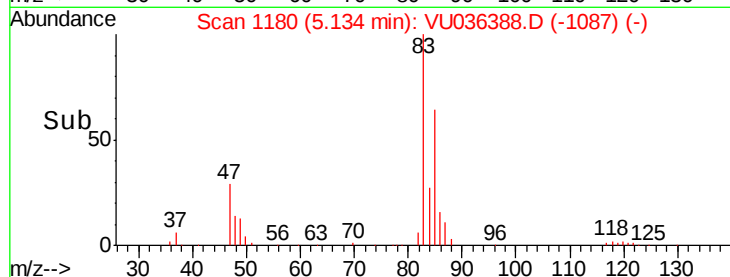
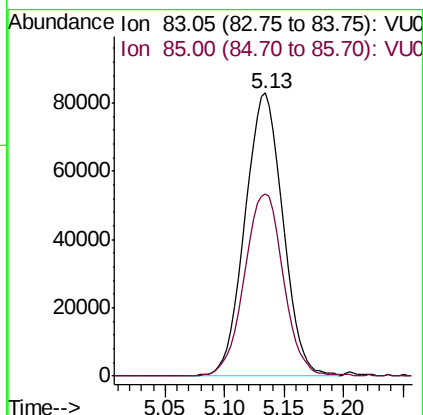
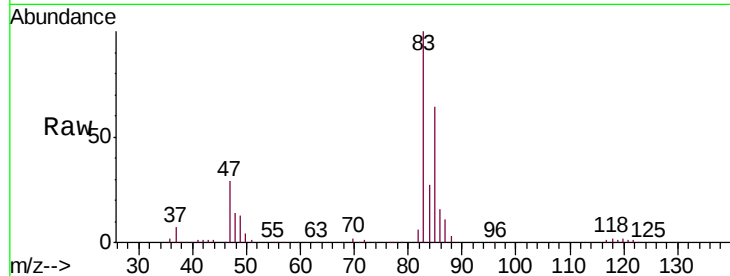




#25  
Chloroform  
Concen: 4.638 ug/L  
RT: 5.13 min Scan# 1180  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

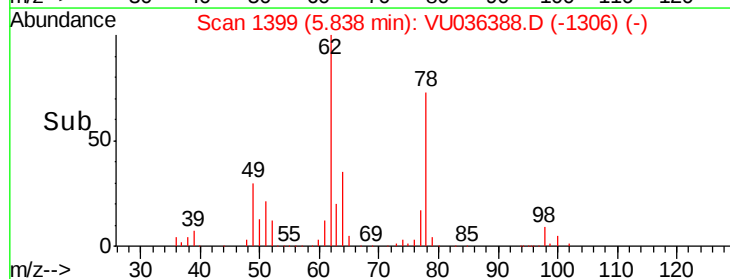
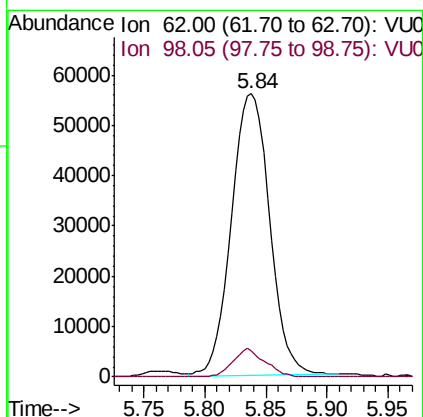
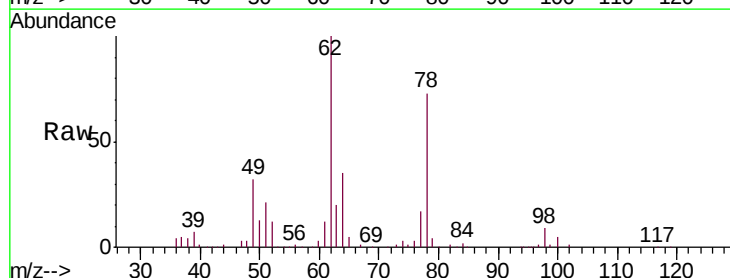
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00511

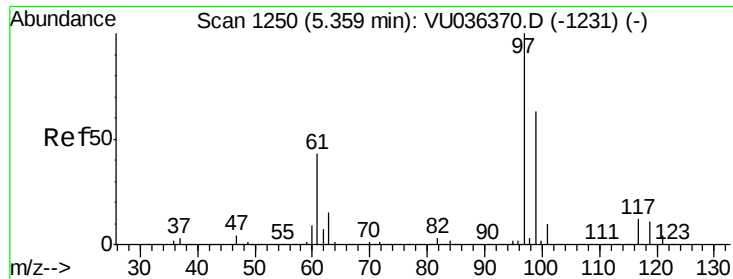
Tgt Ion: 83 Resp: 183421  
Ion Ratio Lower Upper  
83 100  
85 64.4 44.1 81.9



#27  
1,2-Dichloroethane  
Concen: 4.678 ug/L  
RT: 5.84 min Scan# 1399  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

Tgt Ion: 62 Resp: 121828  
Ion Ratio Lower Upper  
62 100  
98 9.3 6.6 10.0

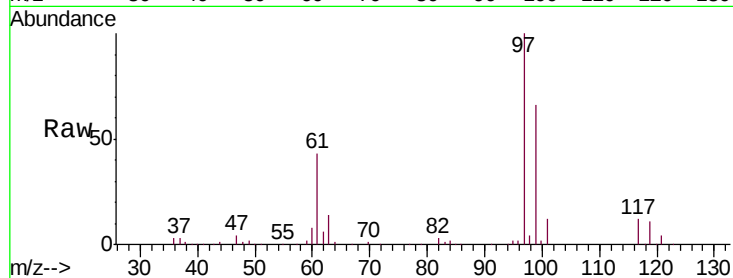




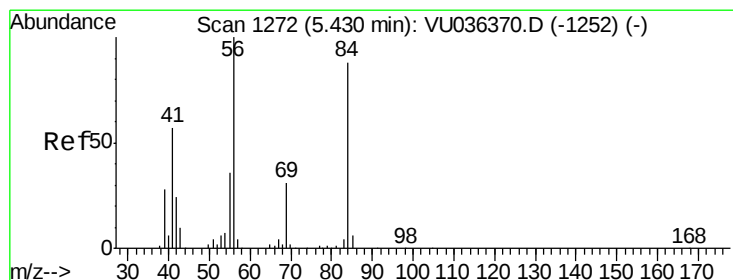
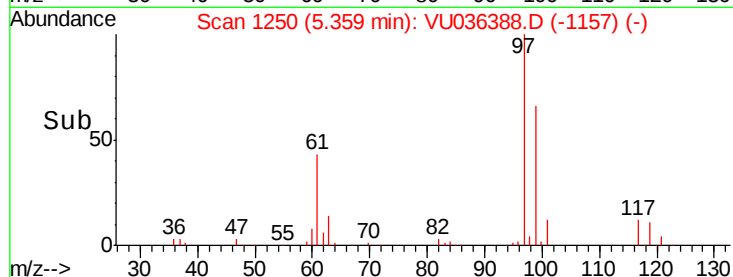
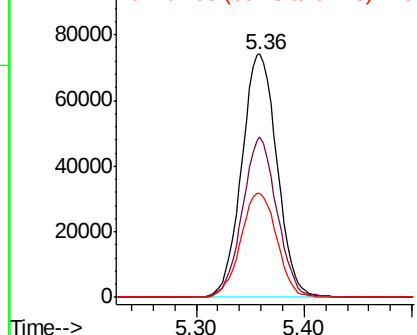
#29  
 1,1,1-Trichloroethane  
 Concen: 4.643 ug/L  
 RT: 5.36 min Scan# 1250  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00511

Tgt Ion: 97 Resp: 168766  
 Ion Ratio Lower Upper  
 97 100  
 99 64.4 50.1 75.1  
 61 43.6 35.0 52.4

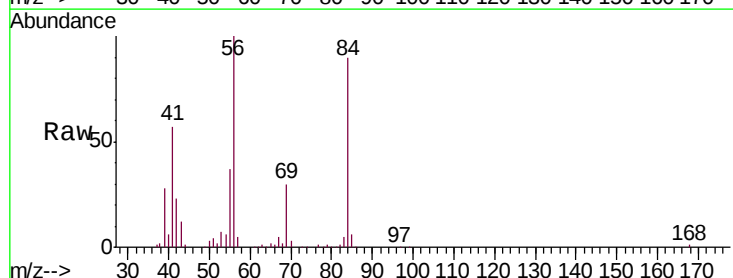


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

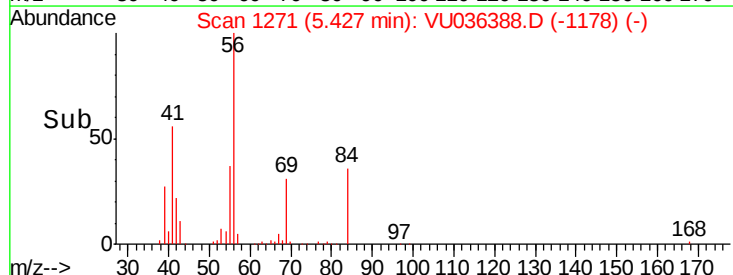
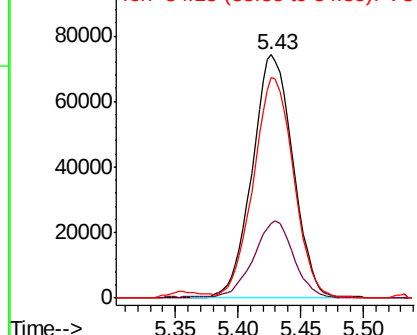


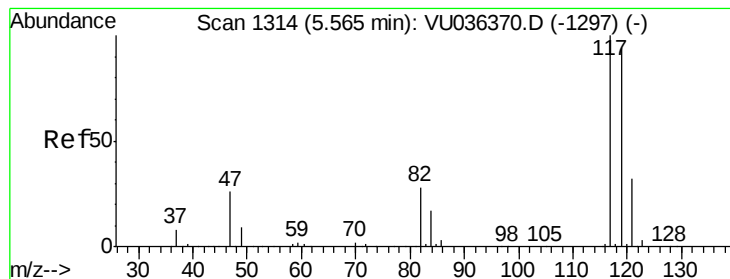
#30  
 Cyclohexane  
 Concen: 4.645 ug/L  
 RT: 5.43 min Scan# 1271  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Tgt Ion: 56 Resp: 167958  
 Ion Ratio Lower Upper  
 56 100  
 69 31.5 23.6 35.4  
 84 90.0 66.0 99.0



Abundance Ion 56.10 (55.80 to 56.80): VU0  
 Ion 69.15 (68.85 to 69.85): VU0  
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.654 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

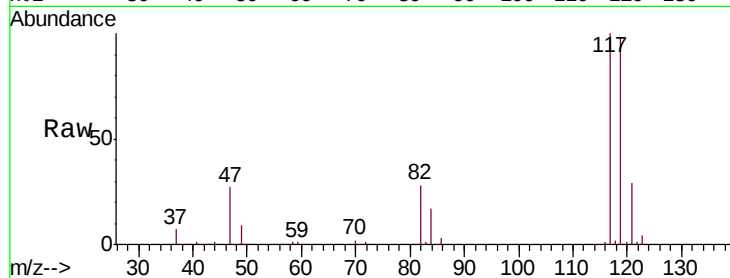
VSTD00511

Tgt Ion:117 Resp: 143855

Ion Ratio Lower Upper

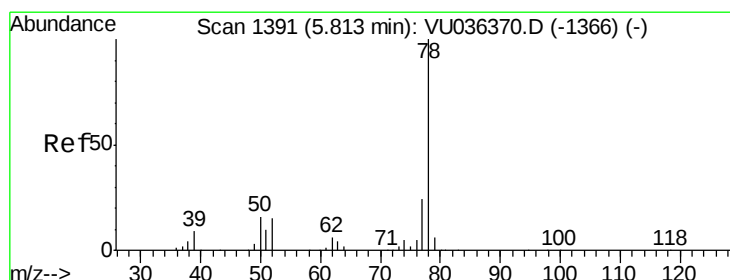
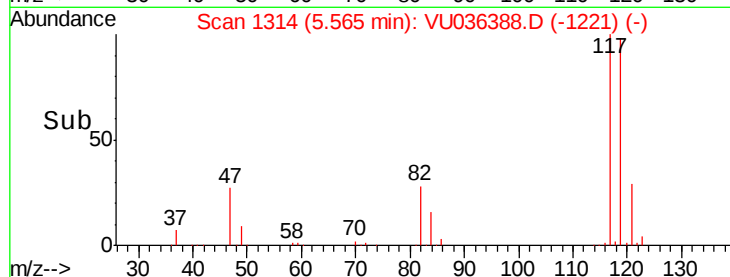
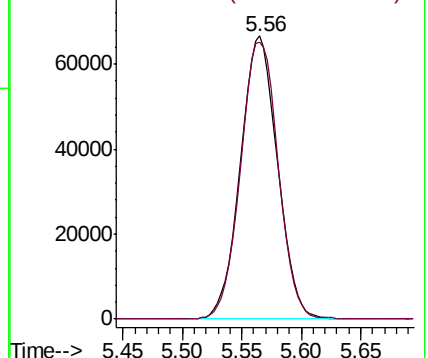
117 100

119 99.6 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.655 ug/L

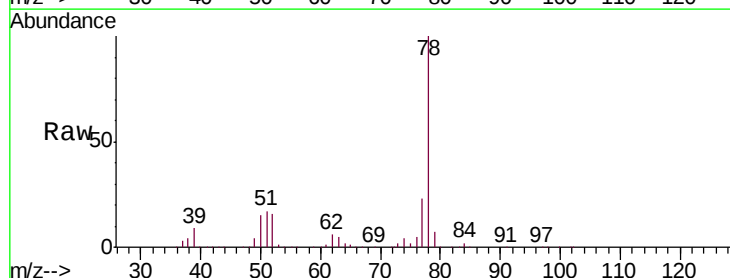
RT: 5.81 min Scan# 1391

Delta R.T. -0.00 min

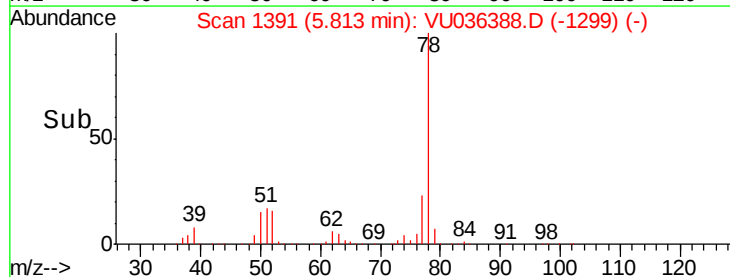
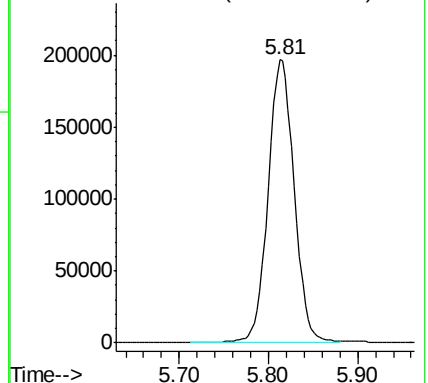
Lab File: VU036388.D

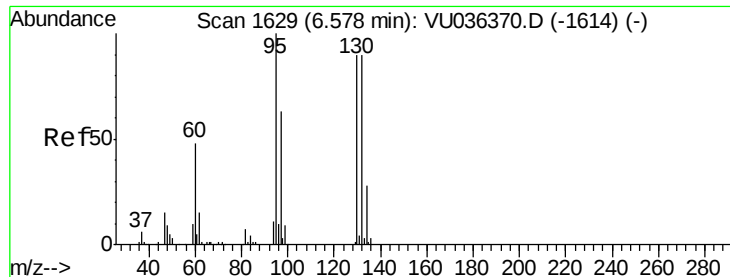
Acq: 02 Jan 2020 11:26

Tgt Ion: 78 Resp: 403073



Abundance Ion 78.10 (77.80 to 78.80): VU0

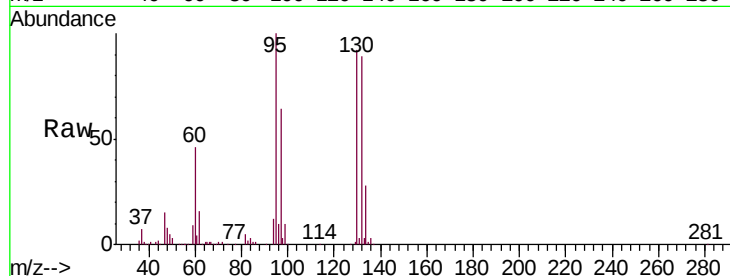




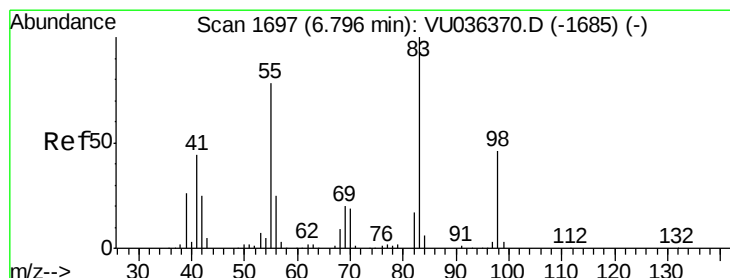
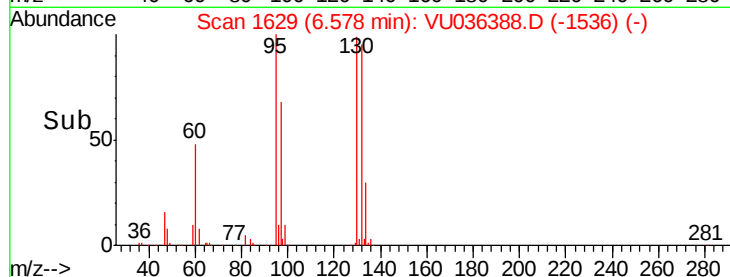
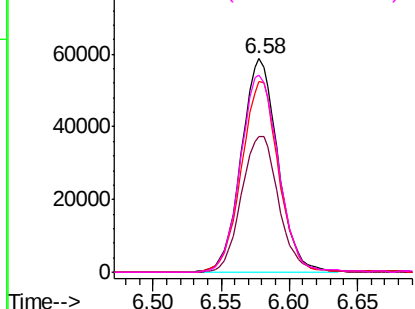
#34  
 Trichloroethene  
 Concen: 4.686 ug/L  
 RT: 6.58 min Scan# 1629  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00511

Tgt Ion: 95 Resp: 109283  
 Ion Ratio Lower Upper  
 95 100  
 97 63.8 42.9 79.7  
 132 89.1 62.4 116.0  
 130 92.5 62.9 116.9

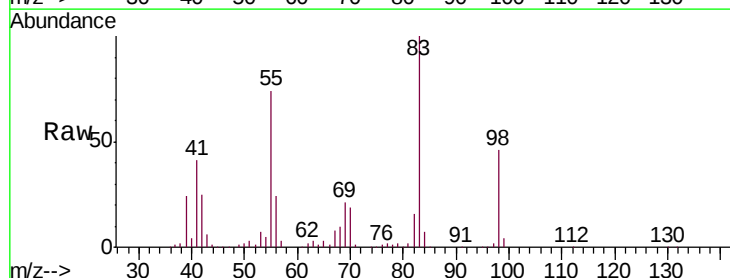


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

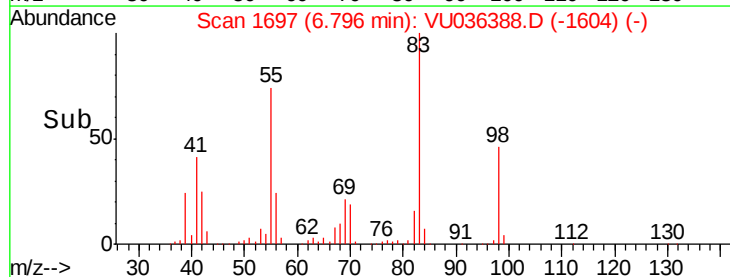
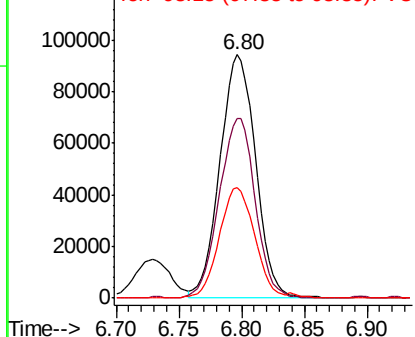


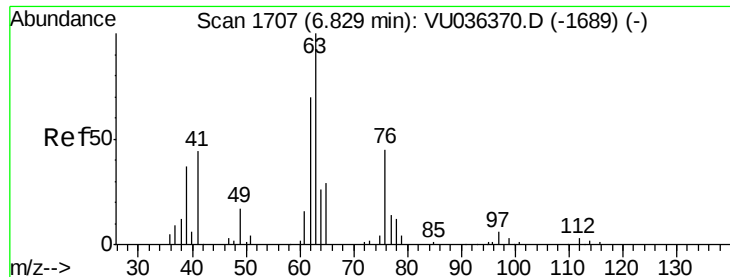
#35  
 Methylcyclohexane  
 Concen: 5.048 ug/L  
 RT: 6.80 min Scan# 1697  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Tgt Ion: 83 Resp: 186576  
 Ion Ratio Lower Upper  
 83 100  
 55 74.2 61.5 92.3  
 98 44.9 36.9 55.3



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

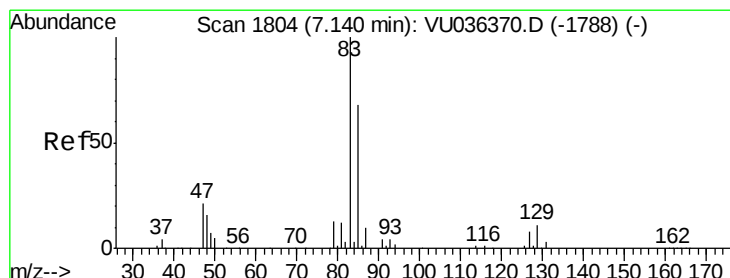
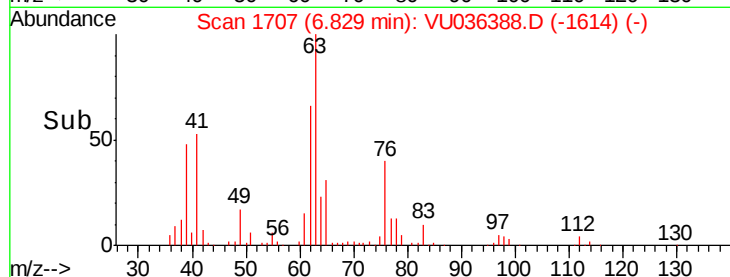
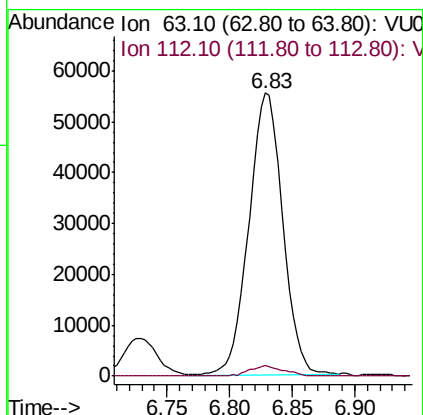
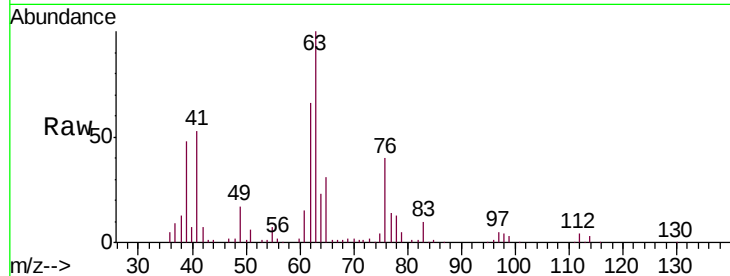




#37  
 1,2-Dichloropropane  
 Concen: 4.660 ug/L  
 RT: 6.83 min Scan# 1707  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

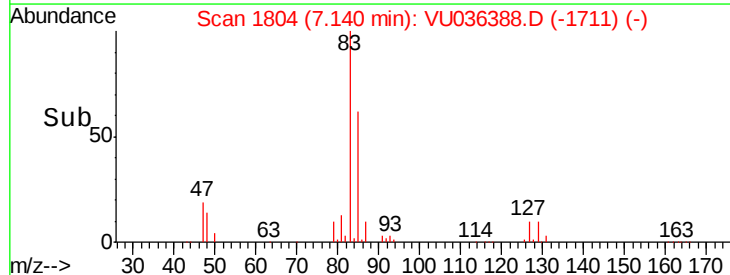
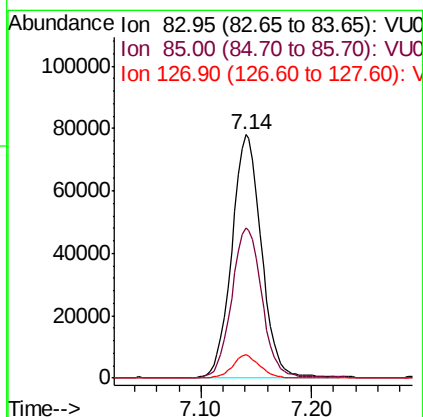
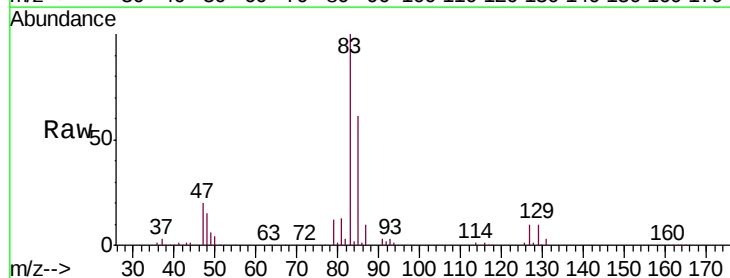
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00511

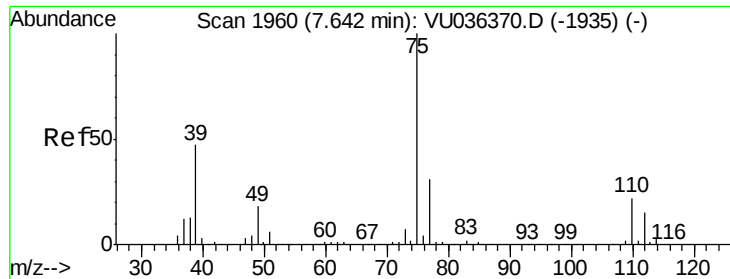
Tgt Ion: 63 Resp: 104095  
 Ion Ratio Lower Upper  
 63 100  
 112 3.6 3.0 4.4



#38  
 Bromodichloromethane  
 Concen: 4.693 ug/L  
 RT: 7.14 min Scan# 1804  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Tgt Ion: 83 Resp: 144680  
 Ion Ratio Lower Upper  
 83 100  
 85 61.4 45.0 83.6  
 127 9.6 6.3 9.5#

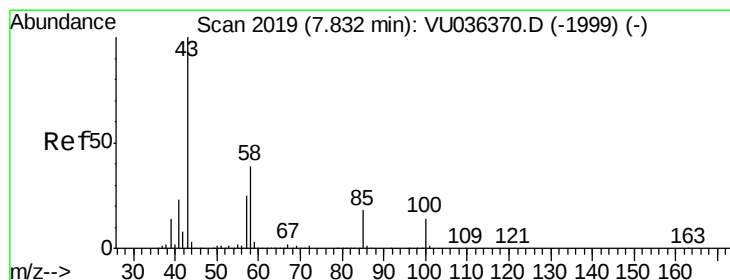
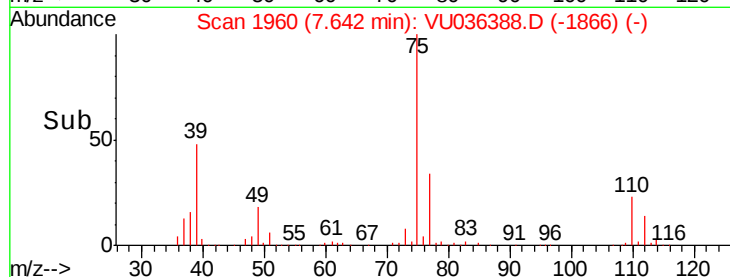
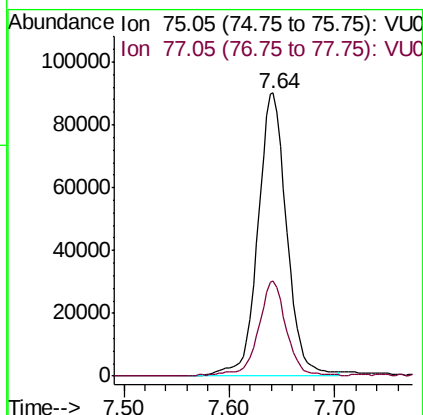
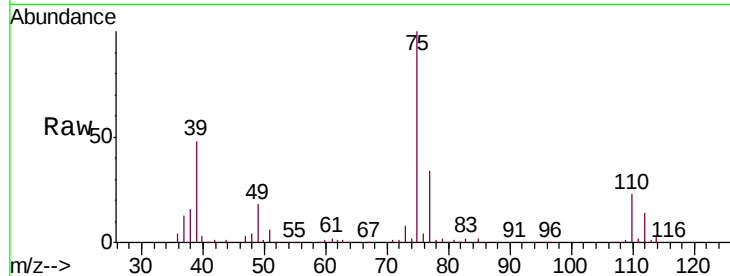




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.707 ug/L  
 RT: 7.64 min Scan# 1960  
 Delta R.T. 0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

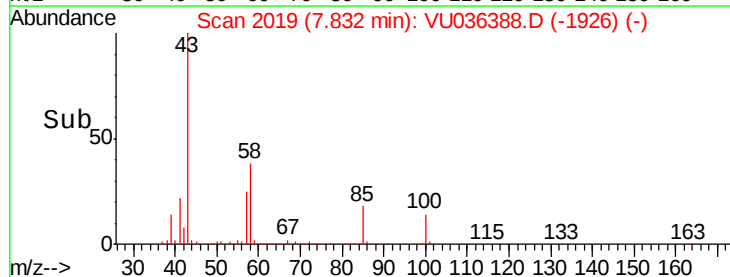
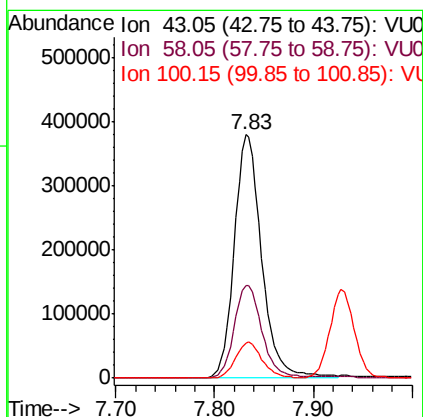
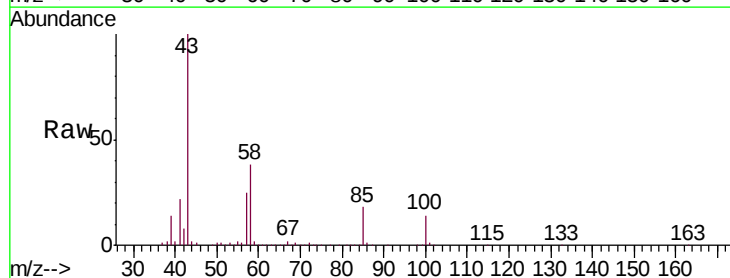
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00511

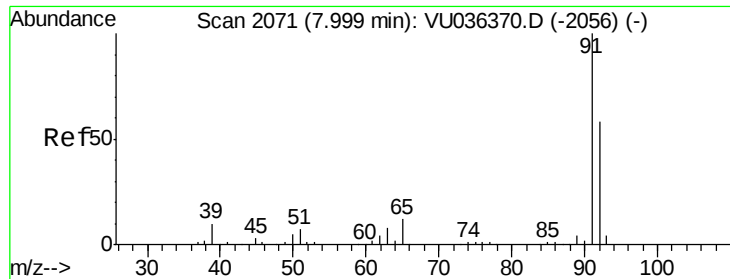
Tgt Ion: 75 Resp: 172373  
 Ion Ratio Lower Upper  
 75 100  
 77 33.8 23.2 43.2



#40  
 4-Methyl-2-pentanone  
 Concen: 46.452 ug/L  
 RT: 7.83 min Scan# 2019  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Tgt Ion: 43 Resp: 730875  
 Ion Ratio Lower Upper  
 43 100  
 58 38.5 31.8 47.6  
 100 14.5 11.5 17.3





#42

Toluene

Concen: 4.630 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

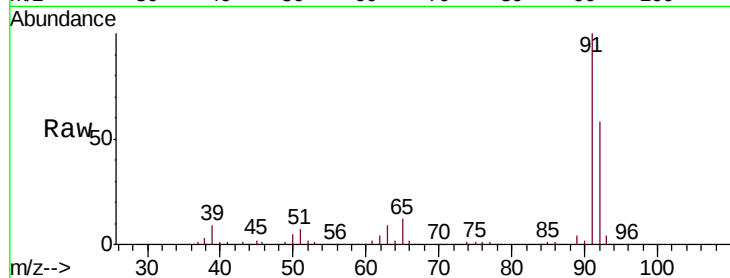
VSTD00511

Tgt Ion: 91 Resp: 443539

Ion Ratio Lower Upper

91 100

92 58.2 39.5 73.3



Abundance Ion 91.15 (90.85 to 91.85): VU036370.D (-2056) (-)

Ion 92.15 (91.85 to 92.85): VU036370.D (-2056) (-)

8.00

250000

200000

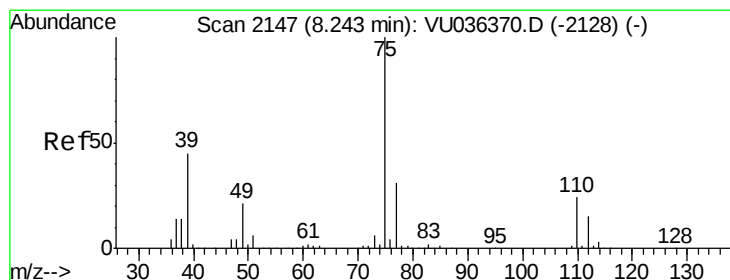
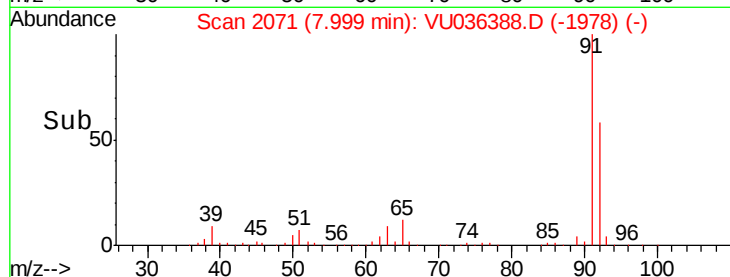
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.634 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU036388.D

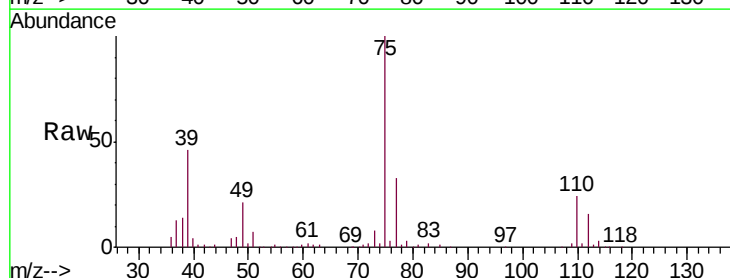
Acq: 02 Jan 2020 11:26

Tgt Ion: 75 Resp: 139405

Ion Ratio Lower Upper

75 100

77 33.0 22.0 41.0



Abundance Ion 75.05 (74.75 to 75.75): VU036370.D (-2128) (-)

Ion 77.05 (76.75 to 77.75): VU036370.D (-2128) (-)

8.24

80000

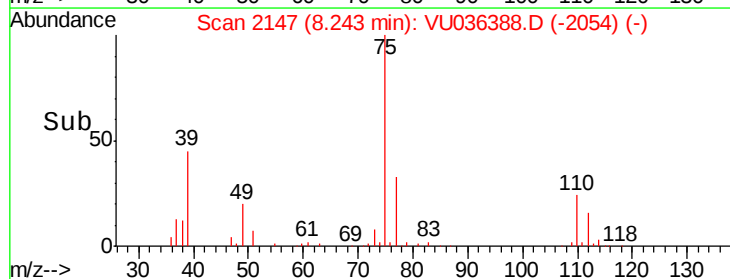
60000

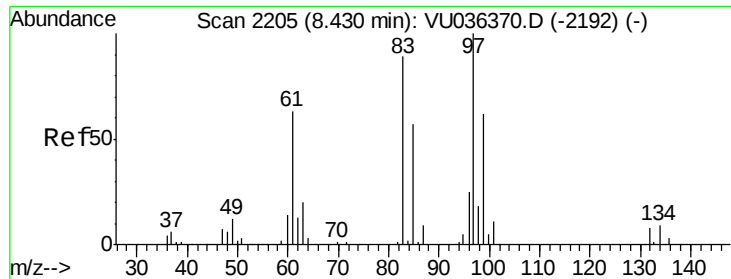
40000

20000

0

Time-->

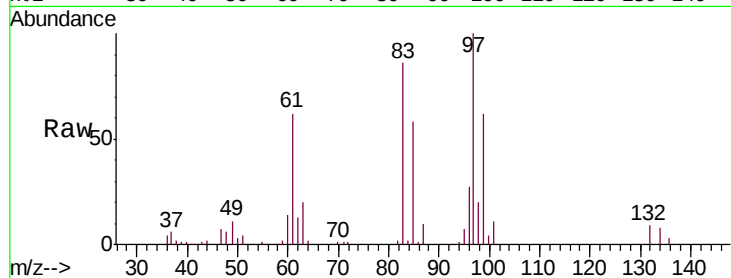




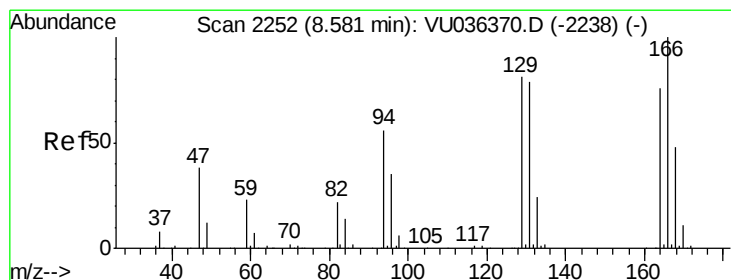
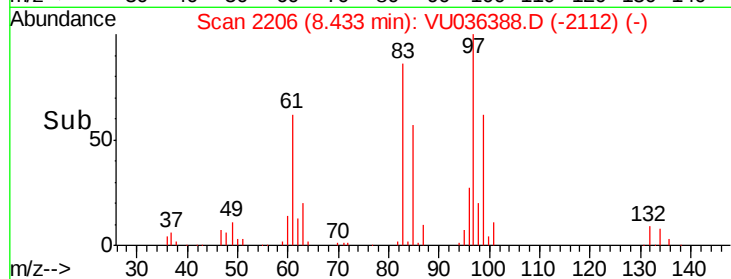
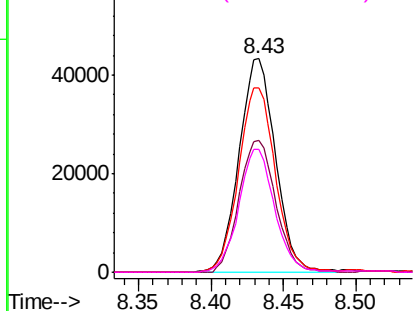
#45  
 1,1,2-Trichloroethane  
 Concen: 4.665 ug/L  
 RT: 8.43 min Scan# 2206  
 Delta R.T. 0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00511

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 75773 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.6  | 43.3  | 80.5  |
| 83       | 86.5  | 62.2  | 115.6 |
| 85       | 57.7  | 41.9  | 77.9  |

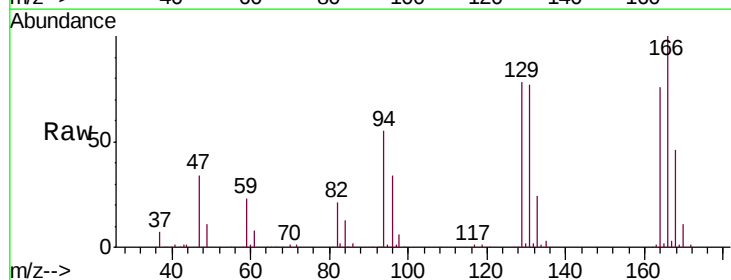


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 82.95 (82.65 to 83.65): VU0  
 Ion 85.00 (84.70 to 85.70): VU0

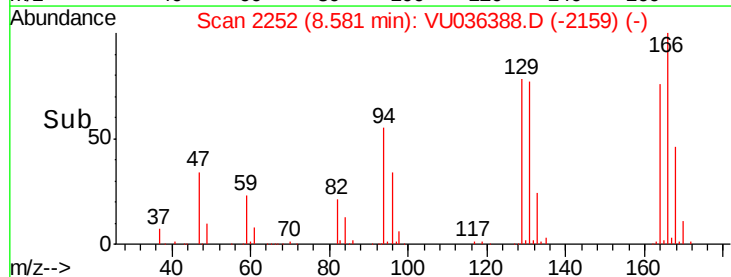
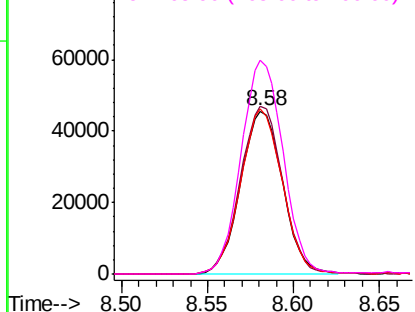


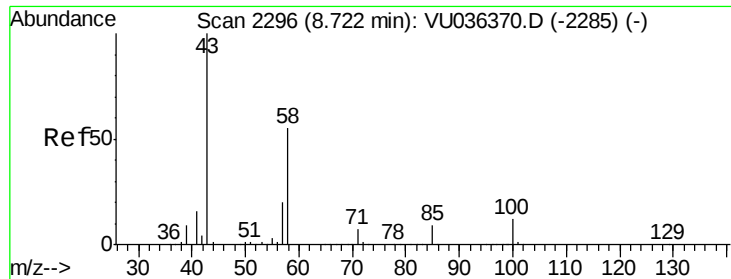
#47  
 Tetrachloroethene  
 Concen: 4.708 ug/L  
 RT: 8.58 min Scan# 2252  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 77281 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 102.5 | 70.3  | 130.5 |
| 131      | 101.0 | 70.4  | 130.8 |
| 166      | 130.9 | 92.1  | 171.1 |



Abundance Ion 163.90 (163.60 to 164.60): V  
 Ion 128.95 (128.65 to 129.65): V  
 Ion 130.95 (130.65 to 131.65): V  
 Ion 165.90 (165.60 to 166.60): V

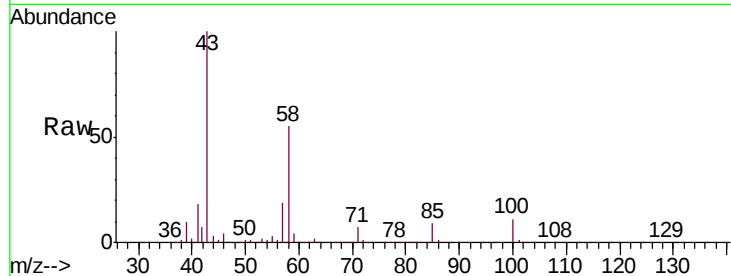




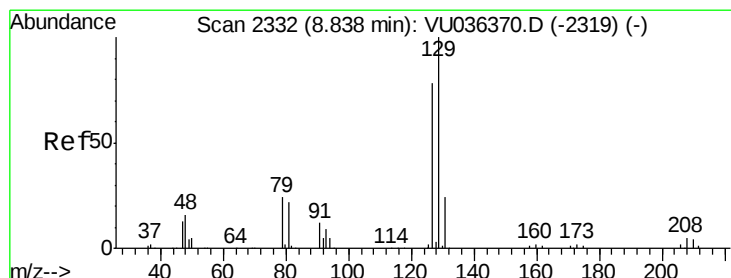
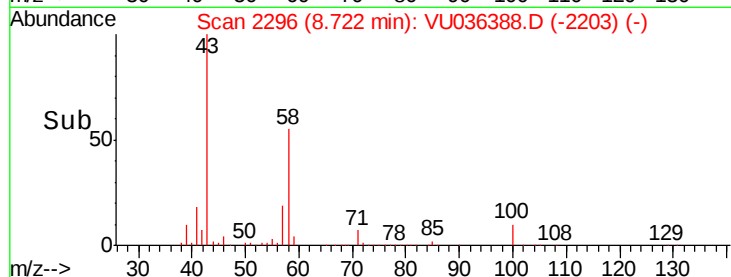
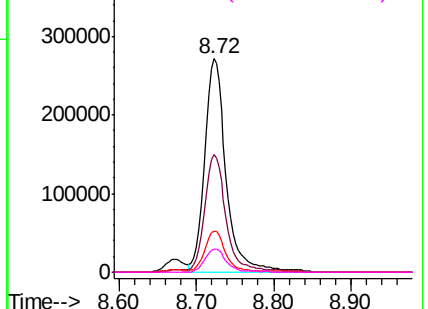
#48  
2-Hexanone  
Concen: 47.365 ug/L  
RT: 8.72 min Scan# 2296  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00511

Tgt Ion: 43 Resp: 527493  
Ion Ratio Lower Upper  
43 100  
58 52.3 42.7 64.1  
57 18.5 14.6 22.0  
100 10.9 9.0 13.6

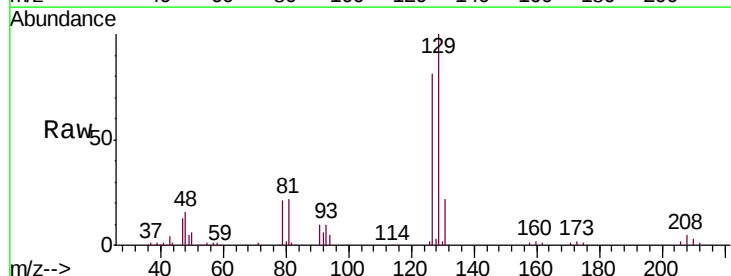


Abundance Ion 43.05 (42.75 to 43.75): VU036370.D (-2285) (-)  
Ion 58.05 (57.75 to 58.75): VU036370.D (-2285) (-)  
Ion 57.20 (56.90 to 57.90): VU036370.D (-2285) (-)  
Ion 100.15 (99.85 to 100.85): VU036370.D (-2285) (-)

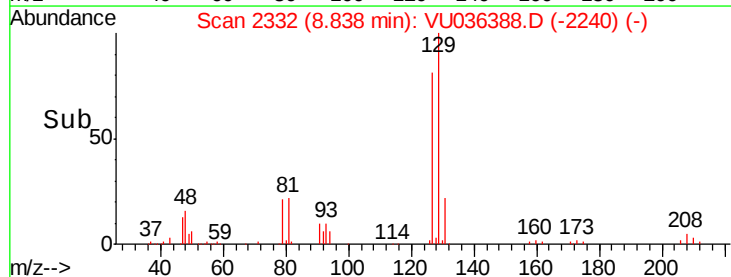
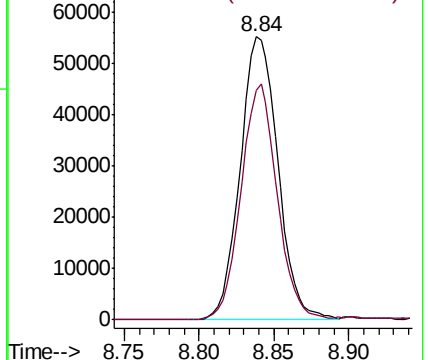


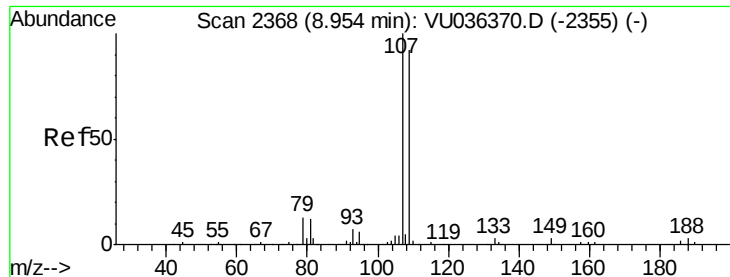
#49  
Dibromochloromethane  
Concen: 4.525 ug/L  
RT: 8.84 min Scan# 2332  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

Tgt Ion: 129 Resp: 97256  
Ion Ratio Lower Upper  
129 100  
127 81.1 52.7 97.9



Abundance Ion 128.95 (128.65 to 129.65): VU036370.D (-2319) (-)  
Ion 126.90 (126.60 to 127.60): VU036370.D (-2319) (-)

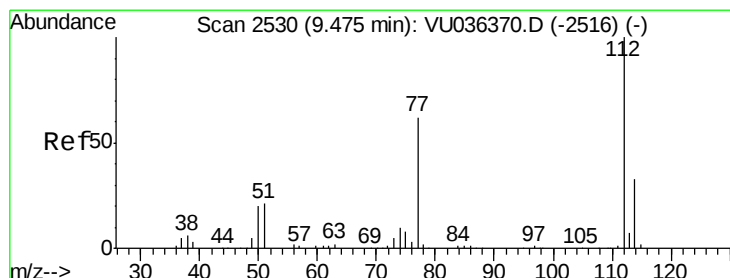
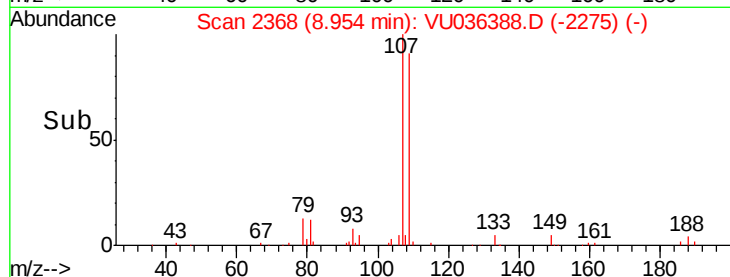
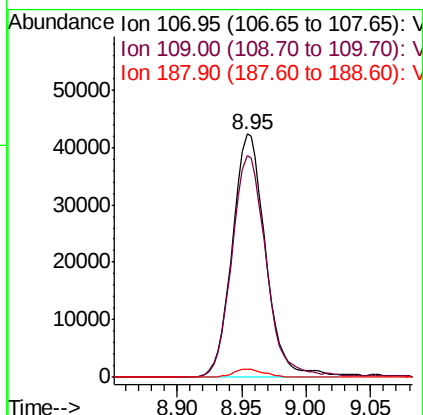
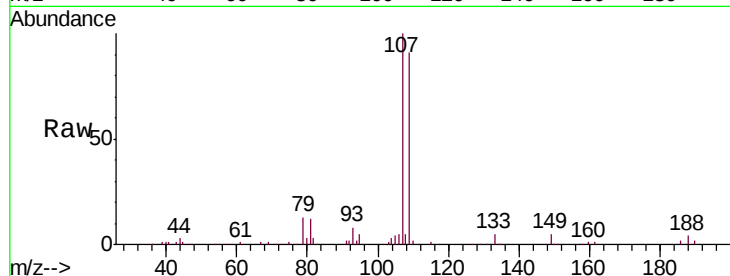




#50  
1,2-Dibromoethane  
Concen: 4.620 ug/L  
RT: 8.95 min Scan# 2368  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

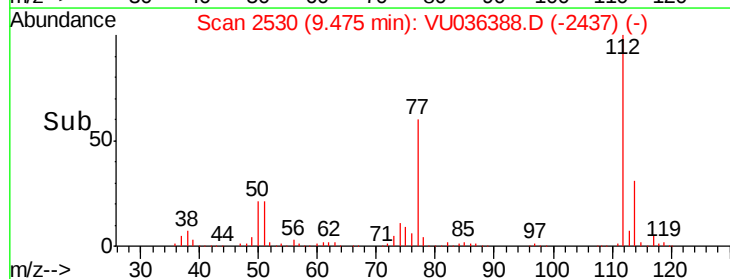
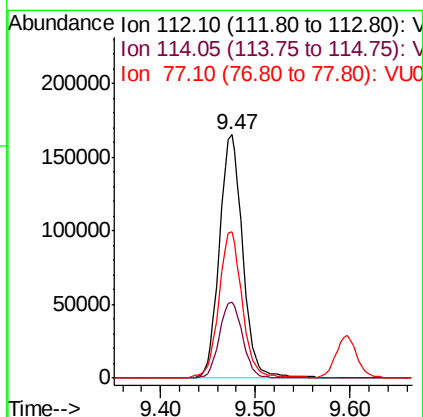
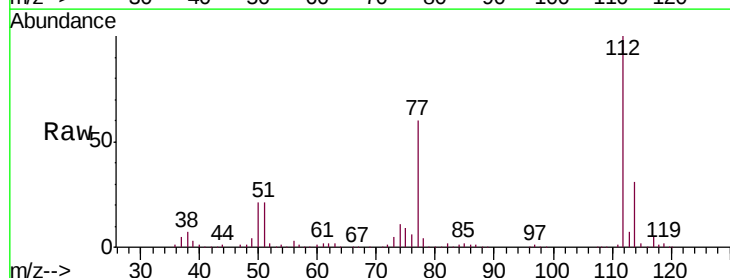
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00511

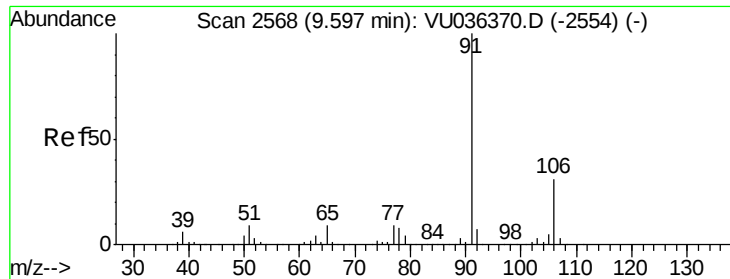
Tgt Ion:107 Resp: 76074  
Ion Ratio Lower Upper  
107 100  
109 91.0 64.3 119.5  
188 3.6 2.2 3.2#



#51  
Chlorobenzene  
Concen: 4.729 ug/L  
RT: 9.47 min Scan# 2530  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

Tgt Ion:112 Resp: 282522  
Ion Ratio Lower Upper  
112 100  
114 31.1 22.7 42.3  
77 60.1 47.8 71.8





#52

Ethylbenzene

Concen: 4.832 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

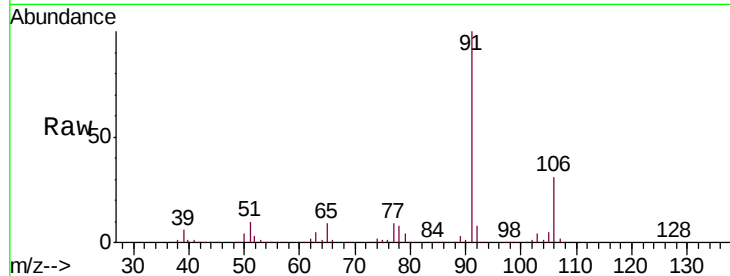
VSTD00511

Tgt Ion: 91 Resp: 513076

Ion Ratio Lower Upper

91 100

106 31.3 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VU036370.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU036370.D (-2554) (-)

9.60

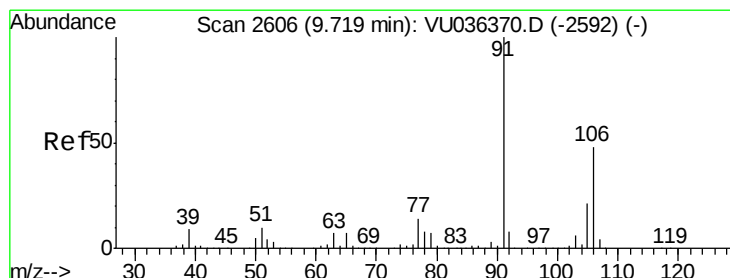
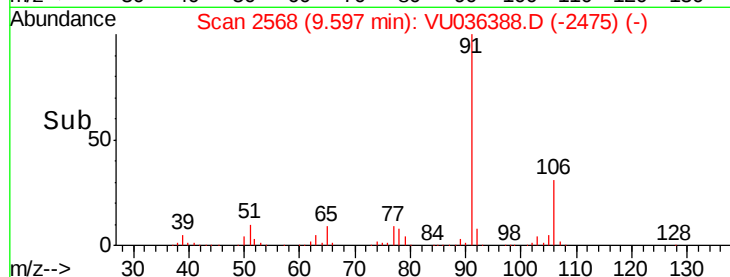
300000

200000

100000

0

Time-->



#53

m,p-Xylene

Concen: 4.742 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036388.D

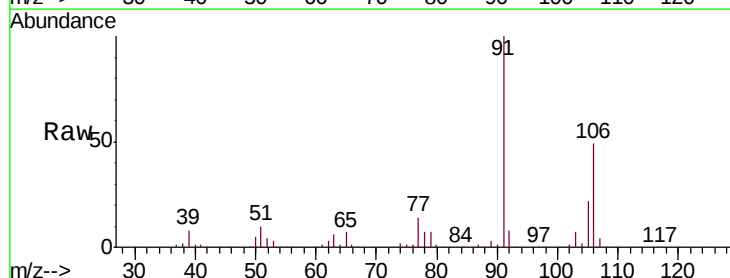
Acq: 02 Jan 2020 11:26

Tgt Ion: 106 Resp: 193495

Ion Ratio Lower Upper

106 100

91 204.6 146.5 272.1



Abundance Ion 106.15 (105.85 to 106.85): VU036370.D (-2592) (-)

Ion 91.15 (90.85 to 91.85): VU036370.D (-2592) (-)

9.72

250000

200000

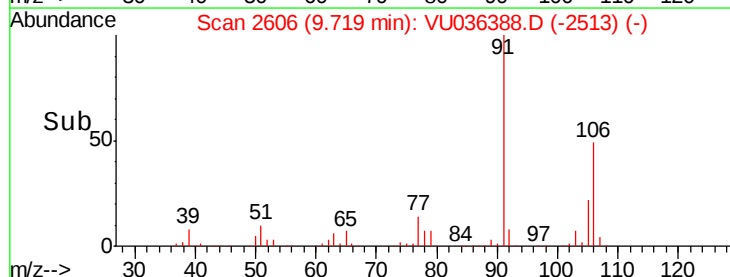
150000

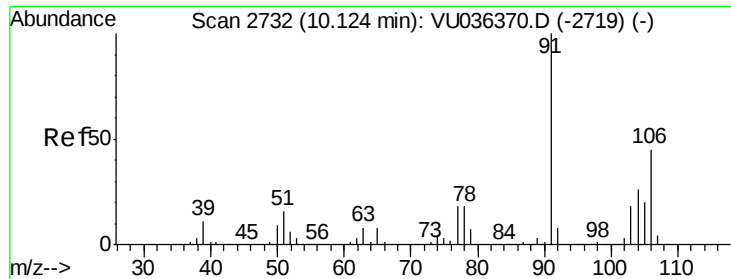
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50000

0

Time-->

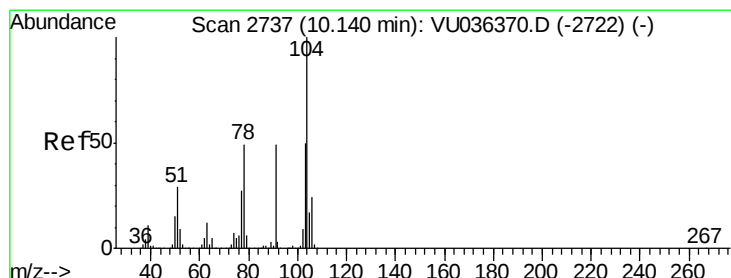
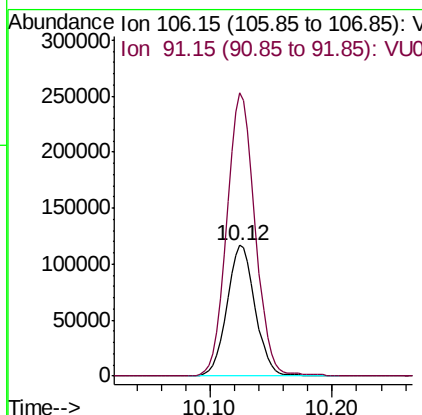
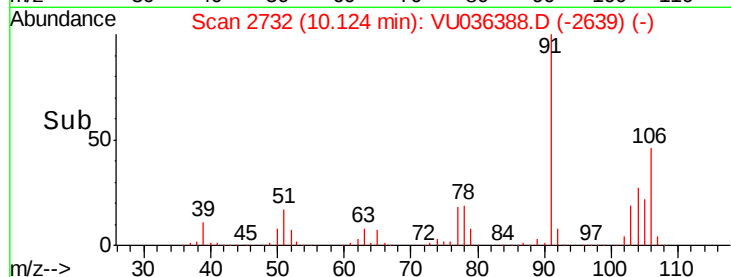
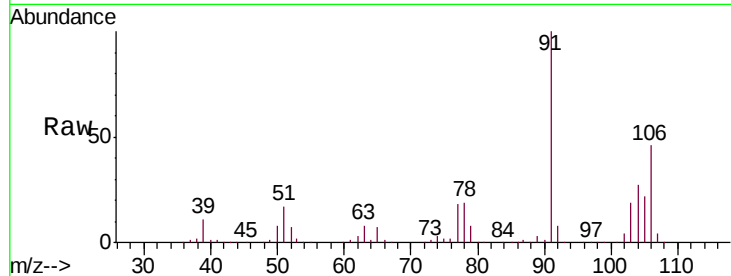




#54  
o-Xylene  
Concen: 4.784 ug/L  
RT: 10.12 min Scan# 2732  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

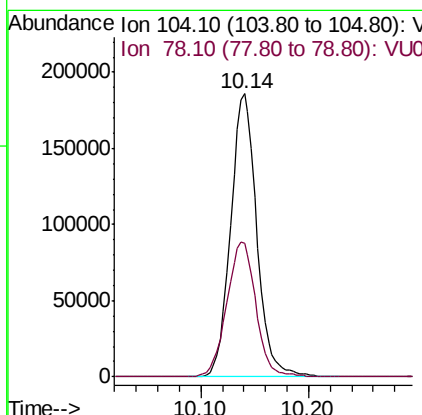
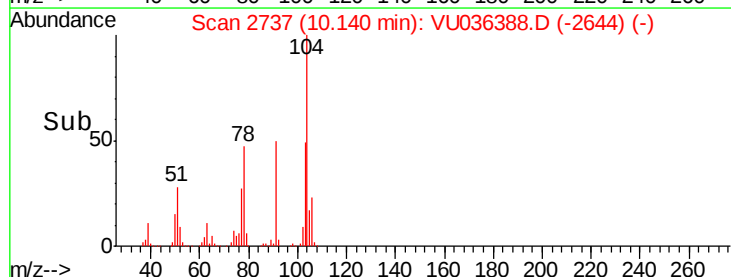
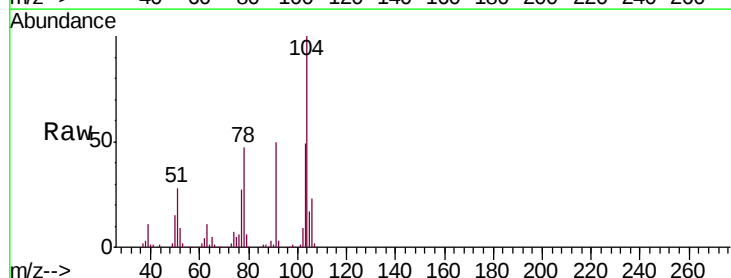
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00511

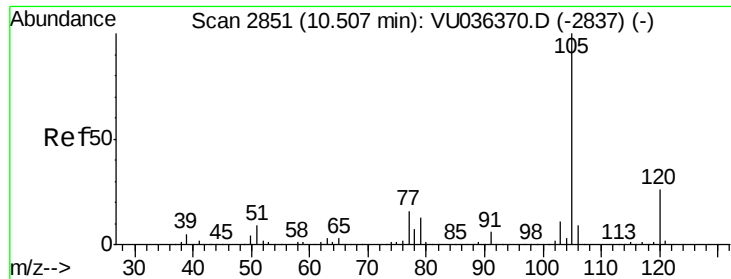
Tgt Ion:106 Resp: 189610  
Ion Ratio Lower Upper  
106 100  
91 216.4 151.5 281.5



#55  
Styrene  
Concen: 4.672 ug/L  
RT: 10.14 min Scan# 2737  
Delta R.T. -0.00 min  
Lab File: VU036388.D  
Acq: 02 Jan 2020 11:26

Tgt Ion:104 Resp: 314724  
Ion Ratio Lower Upper  
104 100  
78 47.0 33.5 62.1





#56

Isopropylbenzene

Concen: 4.745 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00511

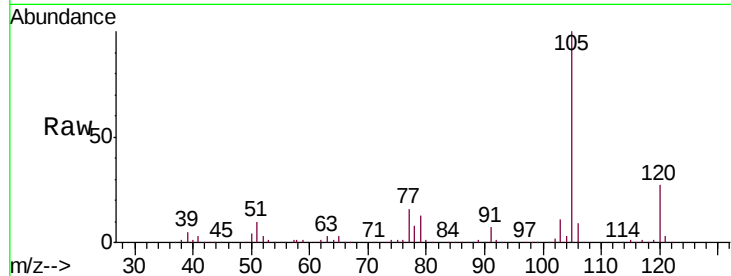
Tgt Ion: 105 Resp: 499276

Ion Ratio Lower Upper

105 100

120 26.7 21.1 31.7

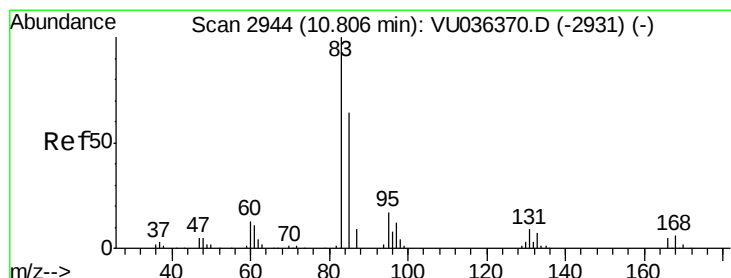
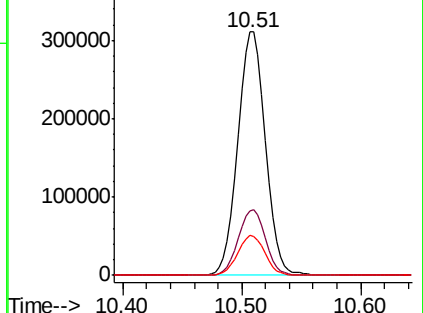
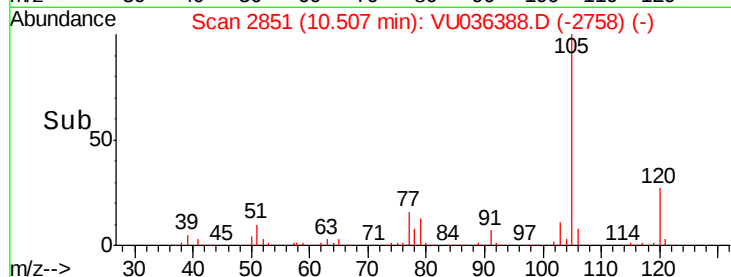
77 16.2 13.2 19.8



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: 4.706 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

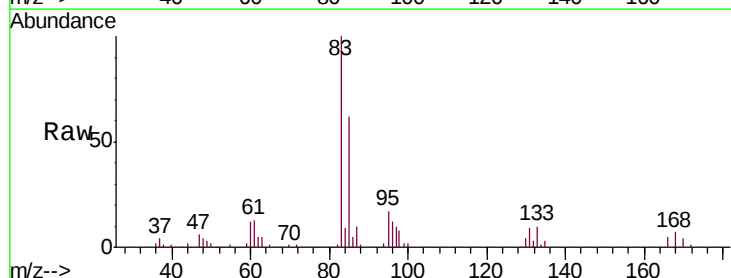
Tgt Ion: 83 Resp: 103056

Ion Ratio Lower Upper

83 100

85 62.5 47.5 88.1

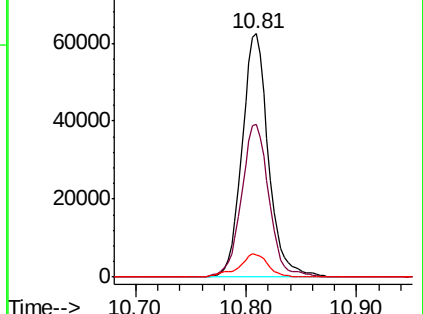
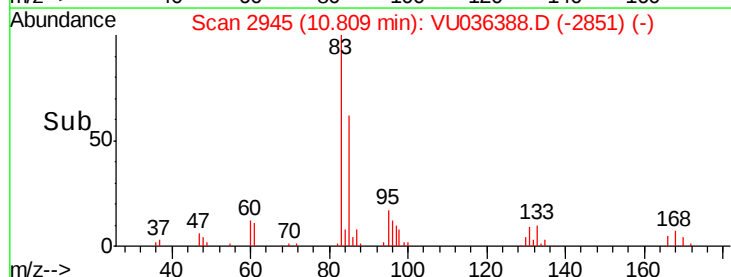
131 9.3 8.8 13.2

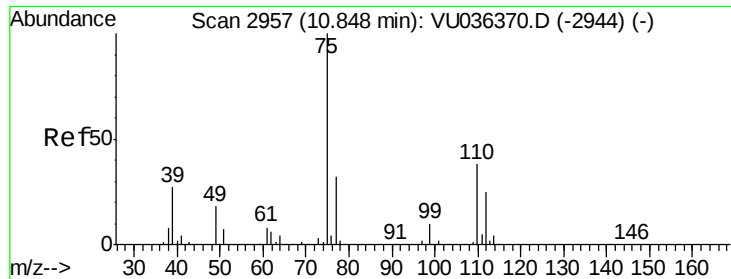


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.619 ug/L

RT: 10.85 min Scan# 2957

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

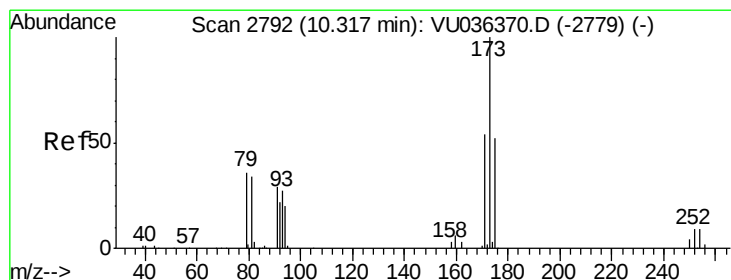
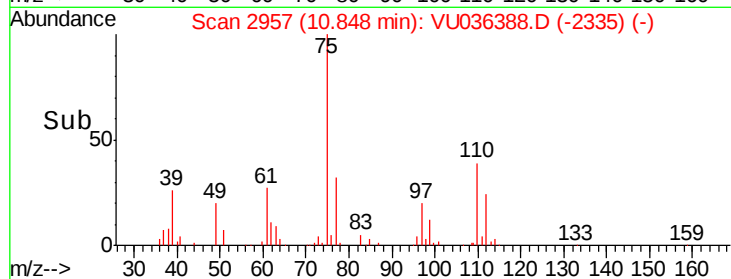
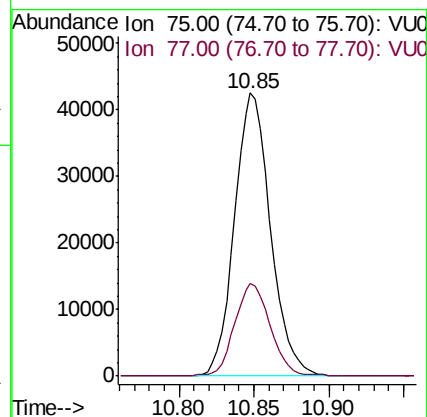
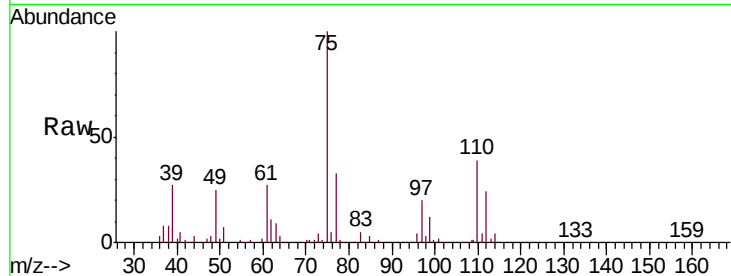
VSTD00511

Tgt Ion: 75 Resp: 71169

Ion Ratio Lower Upper

75 100

77 32.6 27.0 40.4



#61

Bromoform

Concen: 4.449 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

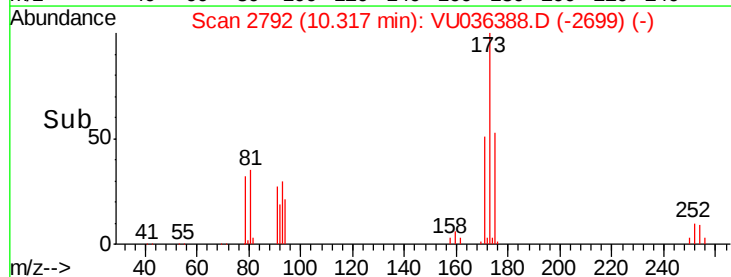
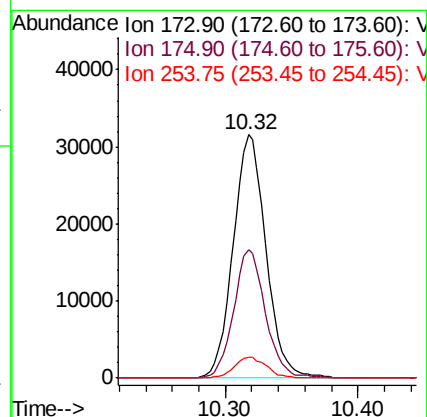
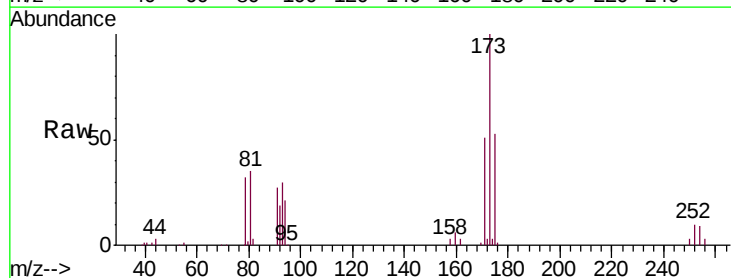
Tgt Ion: 173 Resp: 54154

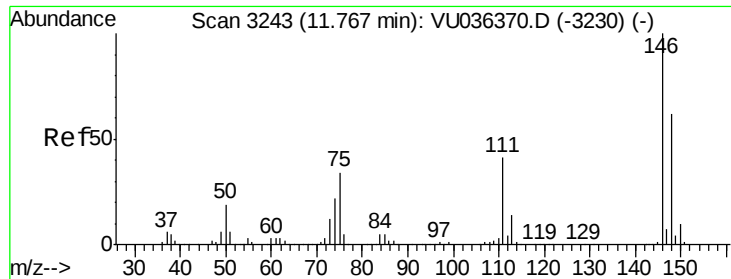
Ion Ratio Lower Upper

173 100

175 51.1 37.0 55.4

254 8.5 7.0 10.6





#62

1,3-Dichlorobenzene

Concen: 4.764 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00511

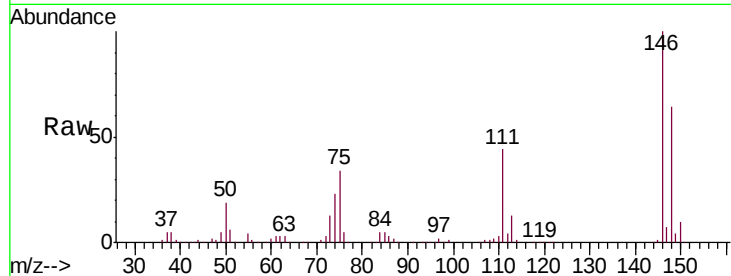
Tgt Ion:146 Resp: 217370

Ion Ratio Lower Upper

146 100

111 44.4 30.2 56.0

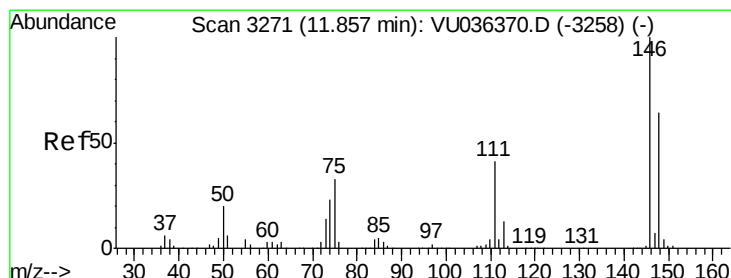
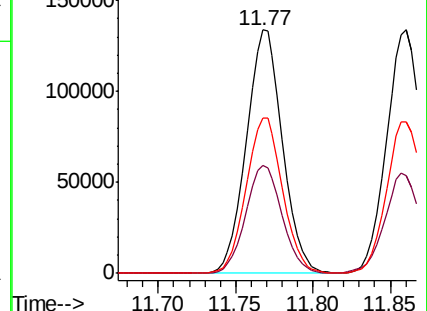
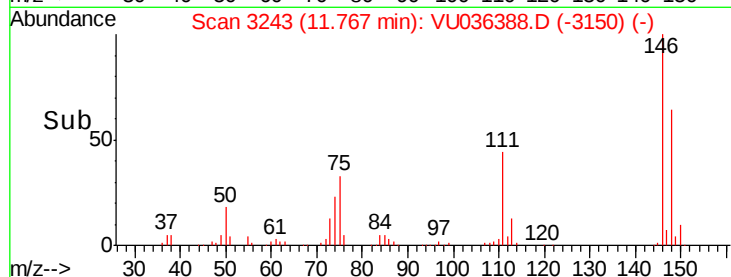
148 64.0 44.2 82.0



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



#63

1,4-Dichlorobenzene

Concen: 4.769 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

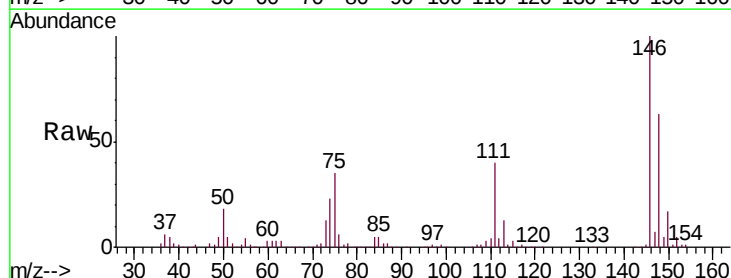
Tgt Ion:146 Resp: 215185

Ion Ratio Lower Upper

146 100

111 40.3 28.6 53.0

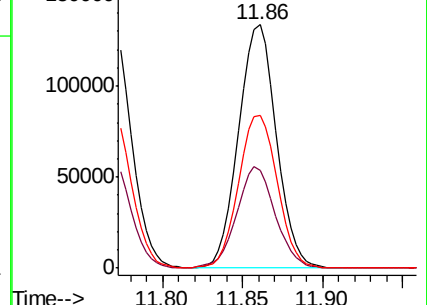
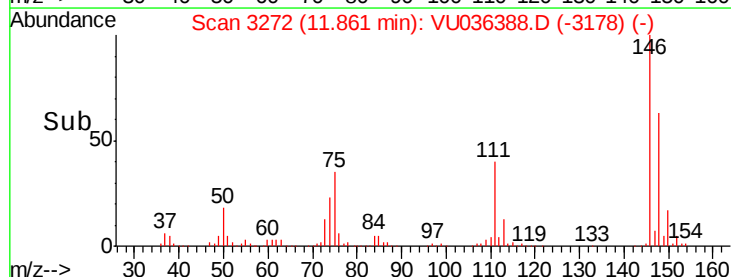
148 62.5 45.0 83.6

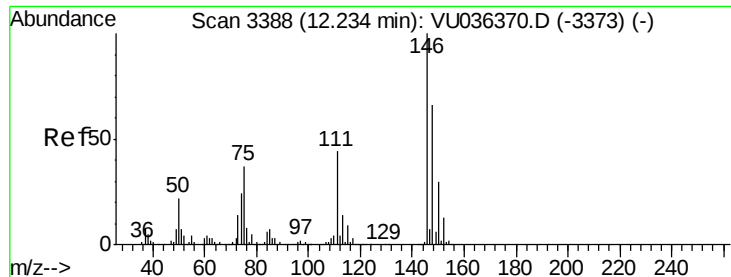


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

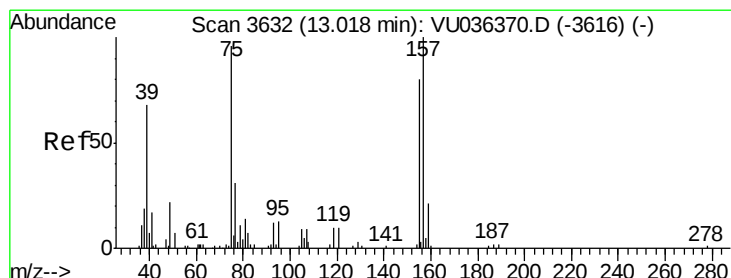
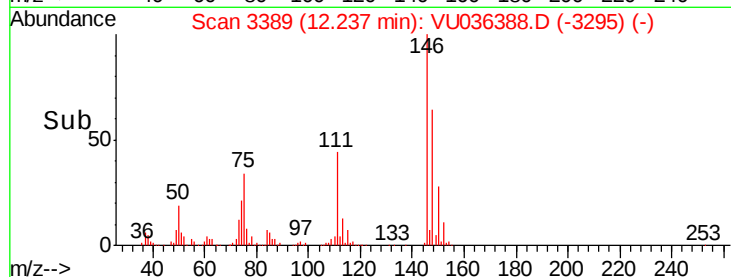
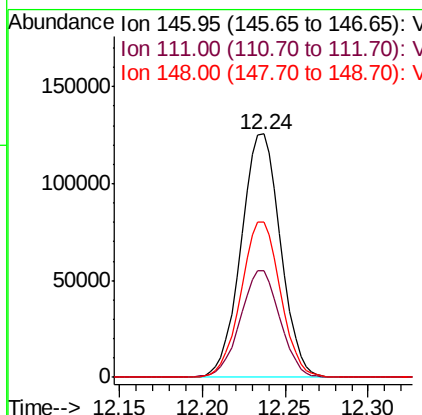
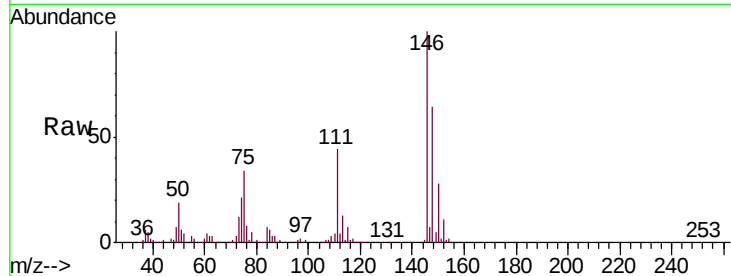




#65  
 1,2-Dichlorobenzene  
 Concen: 4.837 ug/L  
 RT: 12.24 min Scan# 3389  
 Delta R.T. 0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

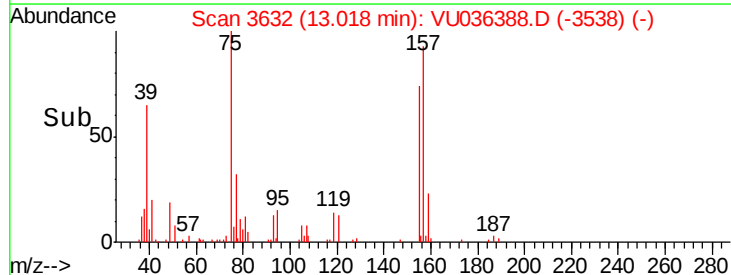
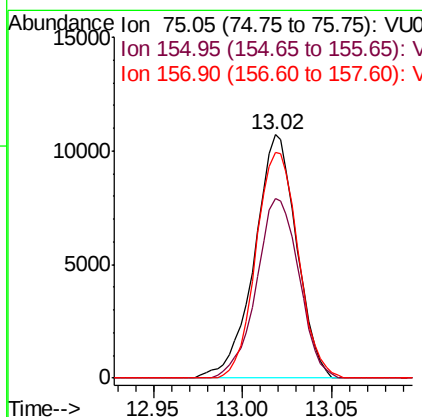
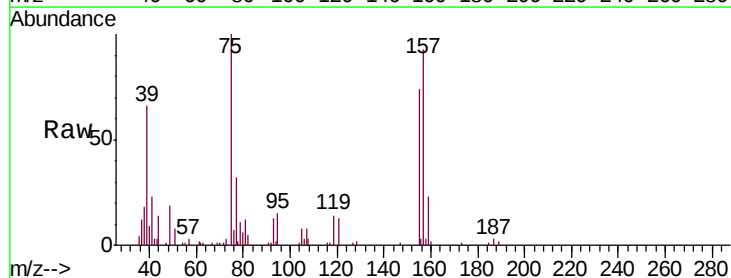
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00511

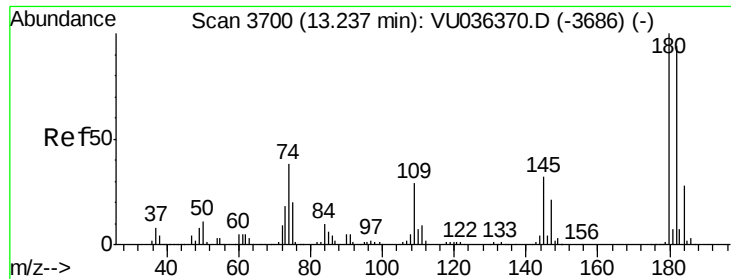
Tgt Ion:146 Resp: 207878  
 Ion Ratio Lower Upper  
 146 100  
 111 43.6 36.4 54.6  
 148 63.6 53.4 80.2



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.487 ug/L  
 RT: 13.02 min Scan# 3632  
 Delta R.T. 0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

Tgt Ion: 75 Resp: 17722  
 Ion Ratio Lower Upper  
 75 100  
 155 73.9 58.6 88.0  
 157 92.8 78.7 118.1

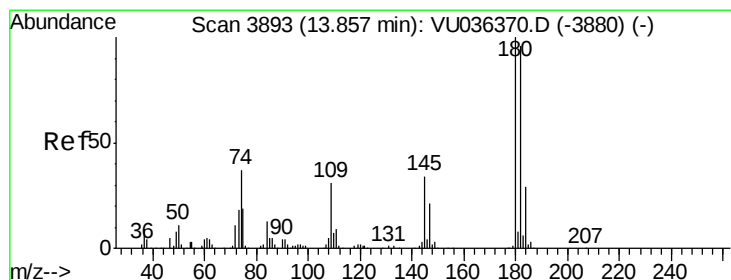
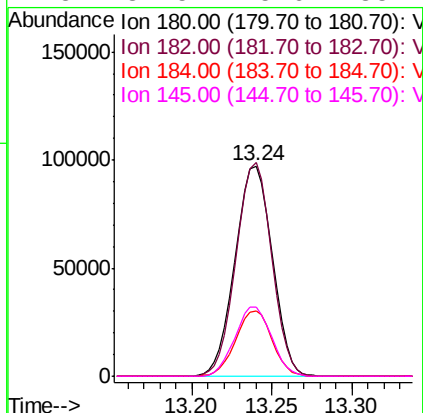
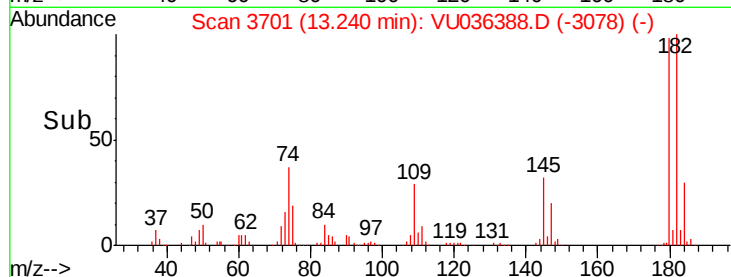
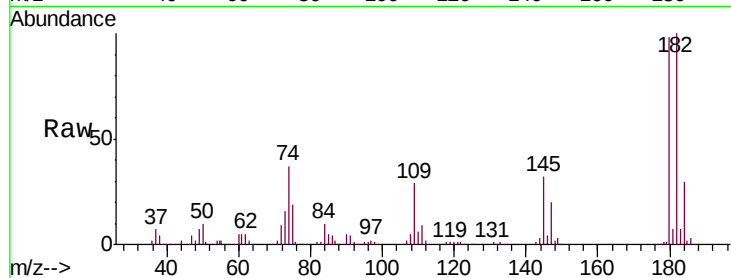




#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.755 ug/L  
 RT: 13.24 min Scan# 3701  
 Delta R.T. 0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

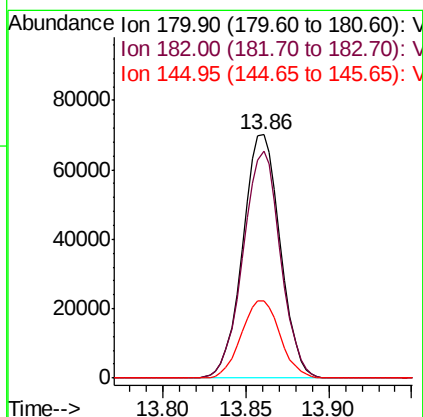
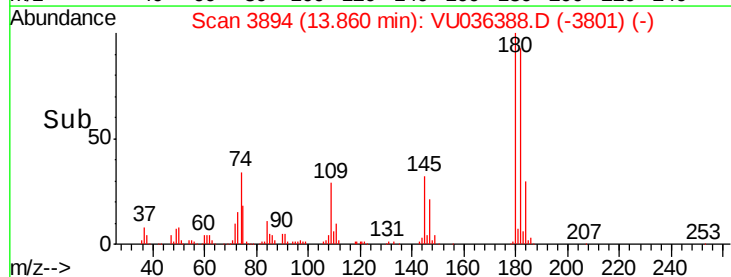
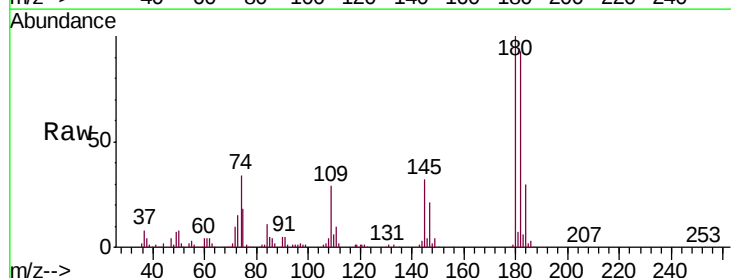
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00511

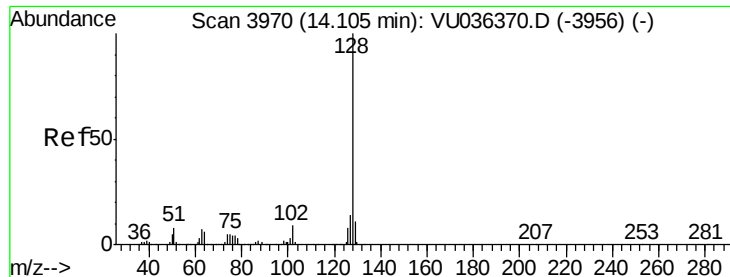
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 154158 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 97.0  | 75.2  | 112.8  |
| 184       | 30.3  | 23.3  | 34.9   |
| 145       | 32.5  | 25.6  | 38.4   |



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.622 ug/L  
 RT: 13.86 min Scan# 3894  
 Delta R.T. -0.00 min  
 Lab File: VU036388.D  
 Acq: 02 Jan 2020 11:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 110044 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 93.0  | 75.5  | 113.3  |
| 145       | 33.0  | 26.2  | 39.2   |





#69

Naphthalene

Concen: 3.708 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00511

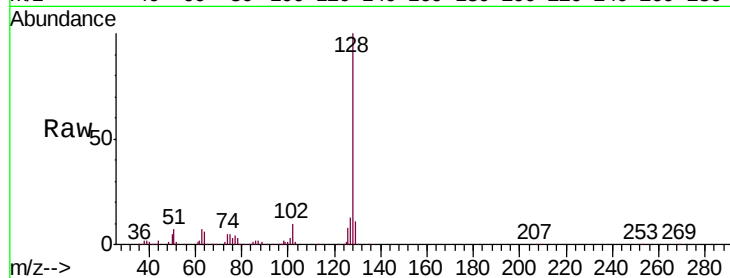
Tgt Ion:128 Resp: 153702

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

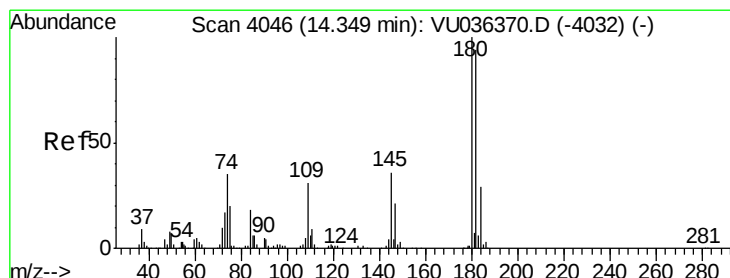
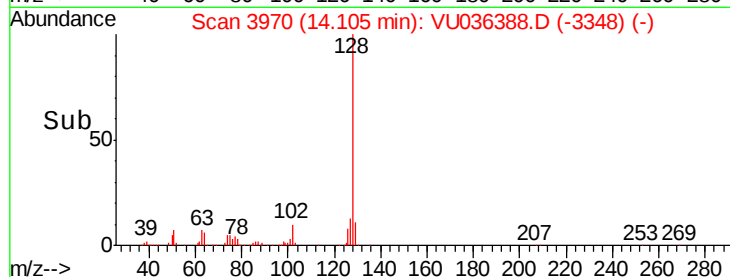
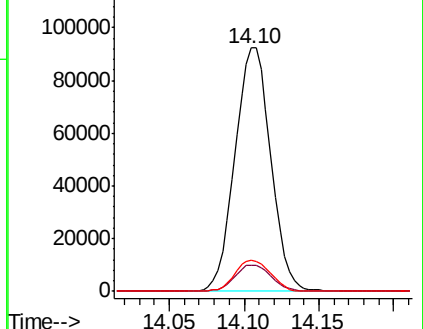
127 12.9 10.6 15.8



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: 4.259 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. -0.00 min

Lab File: VU036388.D

Acq: 02 Jan 2020 11:26

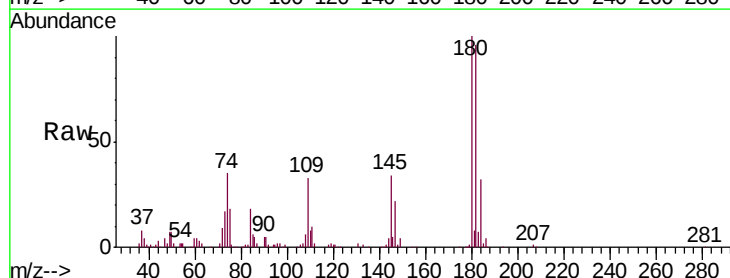
Tgt Ion:180 Resp: 97758

Ion Ratio Lower Upper

180 100

182 98.6 75.0 112.4

145 34.8 28.2 42.4



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

