

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092420\  
 Data File : VU040261.D  
 Acq On : 24 Sep 2020 09:56  
 Operator : SY/MD  
 Sample : VSTD01032  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

Quant Time: Sep 25 09:18:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMULM092420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 25 09:11:02 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 391406   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 383600   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 186515   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.60  | 65  | 31865  | 11.78 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.92  | 69  | 24336  | 10.09 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.58  | 63  | 61178  | 11.80 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.65  | 46  | 53477  | 22.28 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.08  | 84  | 56617  | 11.49 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.72  | 65  | 41335  | 12.26 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.74  | 84  | 105430 | 10.29 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.70  | 67  | 35851  | 10.53 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.91  | 98  | 93020  | 9.87  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.19  | 79  | 17874  | 10.82 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.64  | 63  | 27164  | 14.62 | ug/L | 0.00 |
| 56) 1,1,2,2-Tetrachloroethane- | 10.75 | 84  | 49961  | 10.05 | ug/L | 0.00 |
| 66) 1,2-Dichlorobenzene-d4     | 12.19 | 152 | 33842  | 9.91  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 26853  | 9.855 ug/L  | 97     |
| 3) Chloromethane               | 1.52 | 50  | 32400  | 9.976 ug/L  | 98     |
| 5) Vinyl chloride              | 1.61 | 62  | 32258  | 9.393 ug/L  | 100    |
| 6) Bromomethane                | 1.86 | 94  | 17500  | 8.534 ug/L  | 98     |
| 8) Chloroethane                | 1.94 | 64  | 22157  | 10.153 ug/L | 99     |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 47302  | 11.230 ug/L | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 30705  | 11.993 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 26600  | 10.827 ug/L | 95     |
| 13) Acetone                    | 2.64 | 43  | 55865  | 22.164 ug/L | 99     |
| 14) Carbon disulfide           | 2.81 | 76  | 87376  | 11.672 ug/L | 99     |
| 15) Methyl Acetate             | 2.96 | 43  | 44061  | 12.185 ug/L | 100    |
| 16) Methylene chloride         | 3.06 | 84  | 33943  | 11.233 ug/L | 98     |
| 17) trans-1,2-Dichloroethene   | 3.37 | 96  | 27992  | 10.674 ug/L | 96     |
| 18) Methyl tert-butyl Ether    | 3.38 | 73  | 88769  | 9.846 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 61795  | 11.713 ug/L | 97     |
| 20) cis-1,2-Dichloroethene     | 4.68 | 96  | 30319  | 10.255 ug/L | 97     |
| 22) 2-Butanone                 | 4.72 | 43  | 64222  | 21.458 ug/L | 99     |
| 23) Bromochloromethane         | 4.99 | 128 | 16849  | 11.888 ug/L | 93     |
| 25) Chloroform                 | 5.11 | 83  | 61547  | 11.933 ug/L | 97     |
| 27) 1,2-Dichloroethane         | 5.81 | 62  | 52542  | 12.143 ug/L | 97     |
| 29) Cyclohexane                | 5.40 | 56  | 47984  | 9.423 ug/L  | 98     |
| 30) 1,1,1-Trichloroethane      | 5.33 | 97  | 48981  | 11.368 ug/L | 97     |
| 31) Carbon tetrachloride       | 5.54 | 117 | 42959  | 12.160 ug/L | 98     |
| 33) Benzene                    | 5.79 | 78  | 125050 | 10.479 ug/L | 100    |
| 34) Trichloroethene            | 6.55 | 95  | 32507  | 10.941 ug/L | 97     |
| 35) Methylcyclohexane          | 6.77 | 83  | 45404  | 8.865 ug/L  | 97     |
| 37) 1,2-Dichloropropane        | 6.80 | 63  | 35884  | 11.086 ug/L | 99     |
| 38) Bromodichloromethane       | 7.11 | 83  | 44401  | 11.166 ug/L | 98     |
| 39) cis-1,3-Dichloropropene    | 7.62 | 75  | 47206  | 9.261 ug/L  | 96     |
| 40) 4-Methyl-2-pentanone       | 7.80 | 43  | 106679 | 20.586 ug/L | 99     |

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 Data File : VU040261.D  
 Acq On : 24 Sep 2020 09:56  
 Operator : SY/MD  
 Sample : VSTD01032  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

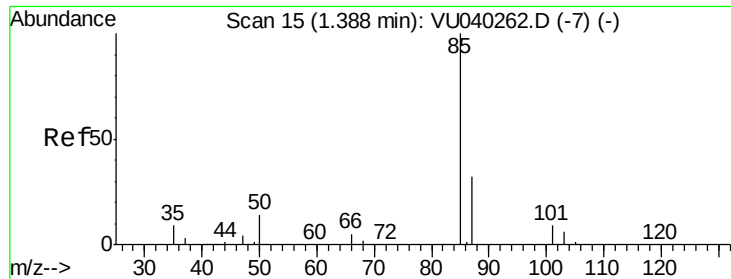
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

Quant Time: Sep 25 09:18:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMULM092420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 25 09:11:02 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.98  | 91   | 124019   | 9.684  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 8.21  | 75   | 49019    | 10.725 | ug/L  | 93       |
| 45) 1,1,2-Trichloroethane      | 8.40  | 97   | 30762    | 10.525 | ug/L  | 97       |
| 46) Tetrachloroethene          | 8.56  | 164  | 22773    | 10.893 | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.69  | 43   | 82006    | 19.316 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.81  | 129  | 33123    | 11.293 | ug/L  | 96       |
| 50) 1,2-Dibromoethane          | 8.93  | 107  | 32994    | 10.699 | ug/L  | 100      |
| 51) Chlorobenzene              | 9.45  | 112  | 84452    | 10.853 | ug/L  | 98       |
| 52) Ethylbenzene               | 9.57  | 91   | 132149   | 9.385  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.69  | 106  | 47690    | 9.196  | ug/L  | 98       |
| 54) o-xylene                   | 10.10 | 106  | 46586    | 9.064  | ug/L  | 93       |
| 55) Styrene                    | 10.11 | 104  | 78391    | 9.095  | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 53207    | 10.193 | ug/L  | 99       |
| 59) Bromoform                  | 10.29 | 173  | 22169    | 10.542 | ug/L  | 96       |
| 60) 1,2,3-Trichloropropane     | 10.82 | 75   | 45073    | 10.252 | ug/L  | 98       |
| 61) Isopropylbenzene           | 10.48 | 105  | 121797   | 8.816  | ug/L  | 97       |
| 62) 1,3,5-Trimethylbenzene     | 11.09 | 105  | 93219    | 7.921  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene     | 11.47 | 105  | 93198    | 7.875  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene        | 11.74 | 146  | 60417    | 10.238 | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene        | 11.83 | 146  | 63634    | 10.630 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene        | 12.21 | 146  | 59760    | 10.011 | ug/L  | 95       |
| 68) 1,2-Dibromo-3-chloropropan | 12.99 | 75   | 11926    | 9.511  | ug/L  | 92       |
| 69) 1,3,5-Trichlorobenzene     | 13.21 | 180  | 38313    | 9.375  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene     | 13.83 | 180  | 31359    | 9.131  | ug/L  | 98       |
| 71) Naphthalene                | 14.08 | 128  | 87822    | 7.372  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 31242    | 9.014  | ug/L  | 96       |

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





#2

Dichlorodifluoromethane

Concen: 9.855 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

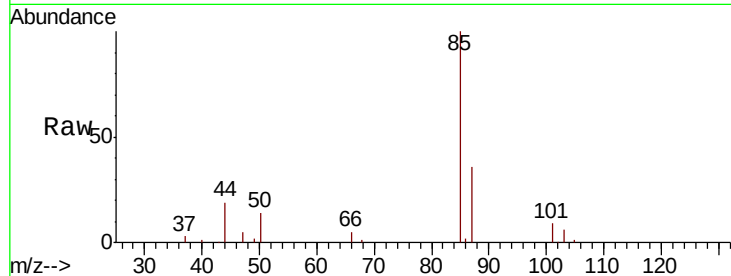
VSTD010202

Tot Ion: 85 Resp: 26853

Ion Ratio Lower Upper

85 100

87 33.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU040261.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU040261.D (-1) (-)

1.39

30000

25000

20000

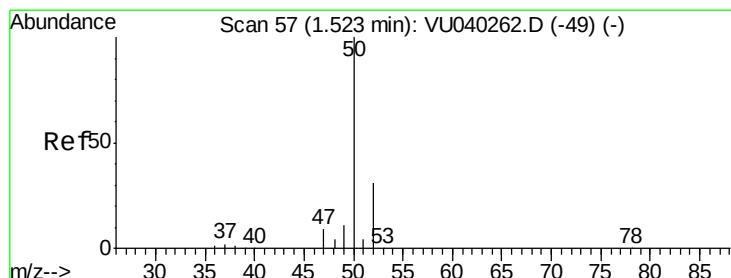
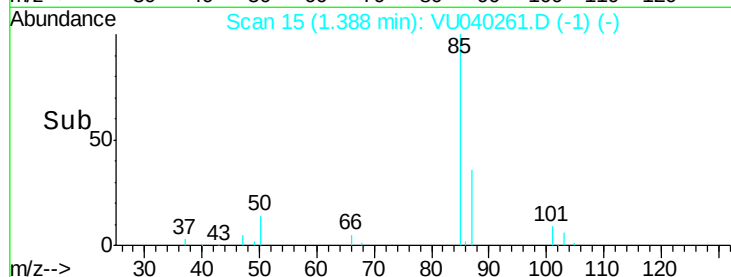
15000

10000

5000

0

Time-->



#3

Chloromethane

Concen: 9.976 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU040261.D

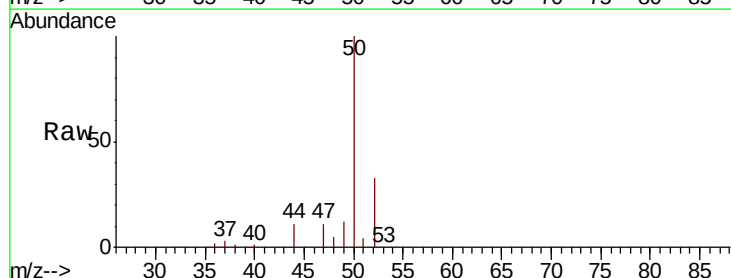
Acq: 24 Sep 2020 09:56

Tgt Ion: 50 Resp: 32400

Ion Ratio Lower Upper

50 100

52 32.6 21.8 40.6



Abundance Ion 50.00 (49.70 to 50.70): VU040261.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU040261.D (-1) (-)

1.52

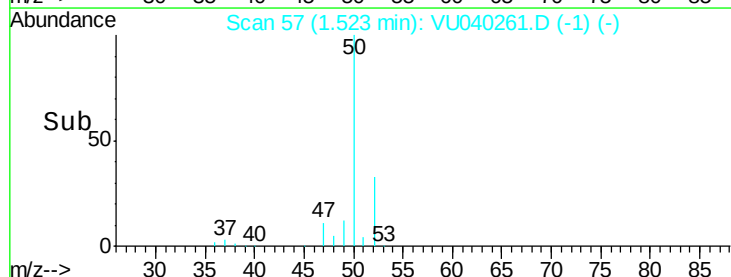
30000

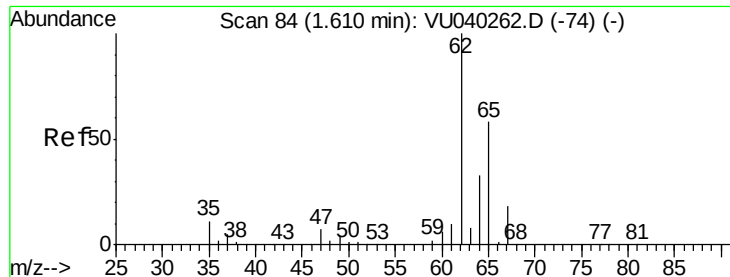
20000

10000

0

Time-->





#5

Vinyl chloride

Concen: 9.393 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

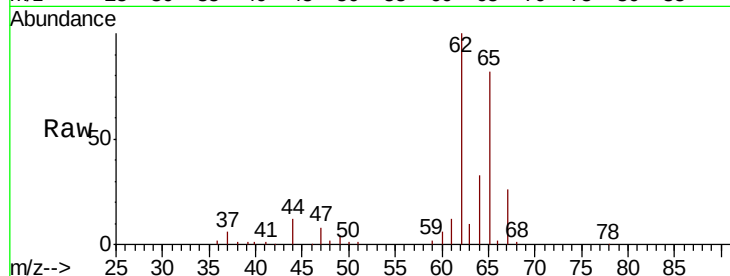
VSTD010202

Tot Ion: 62 Resp: 32258

Ion Ratio Lower Upper

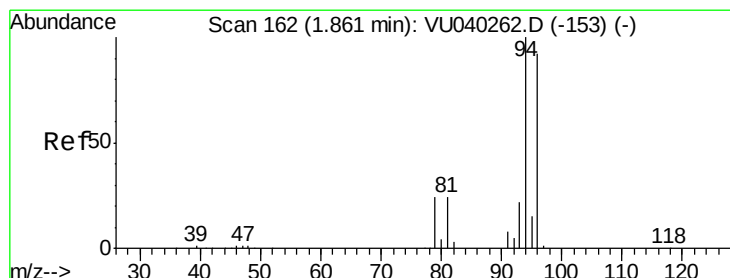
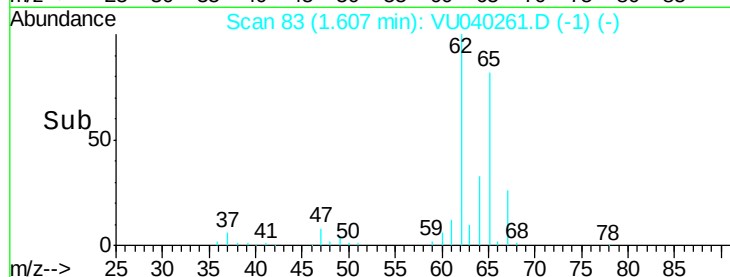
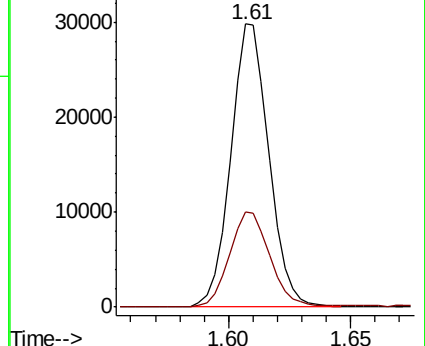
62 100

64 33.5 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 8.534 ug/L

RT: 1.86 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU040261.D

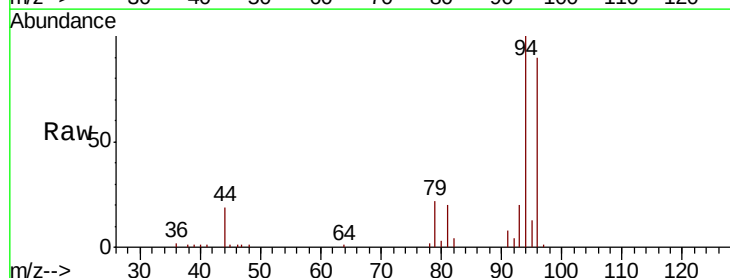
Acq: 24 Sep 2020 09:56

Tgt Ion: 94 Resp: 17500

Ion Ratio Lower Upper

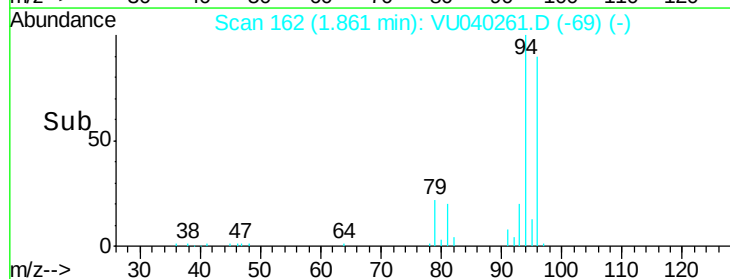
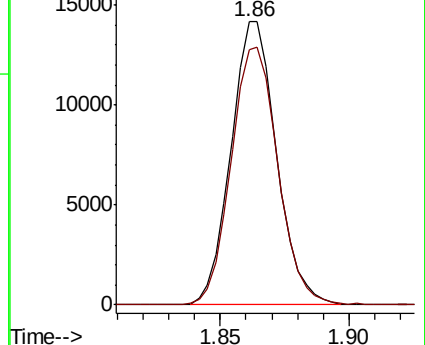
94 100

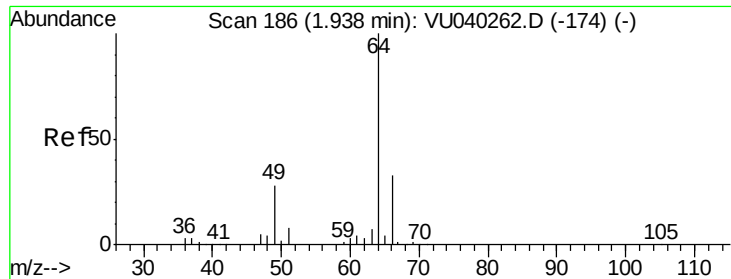
96 90.3 64.7 120.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 10.153 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

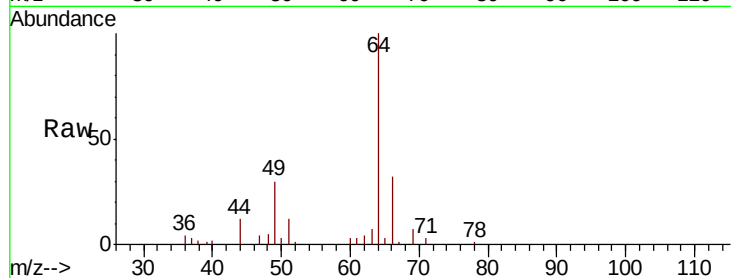
VSTD010202

Tot Ion: 64 Resp: 22157

Ion Ratio Lower Upper

64 100

66 32.0 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VU040261.D (-174) (-)

Ion 66.00 (65.70 to 66.70): VU040261.D (-174) (-)

1.94

15000

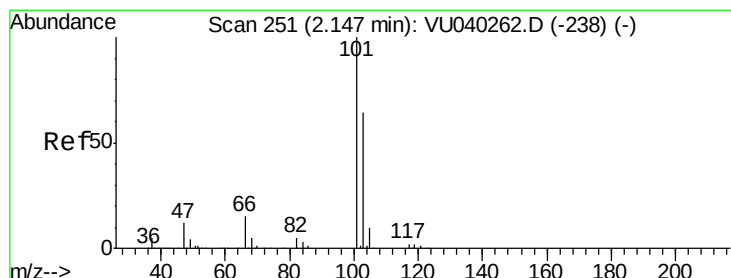
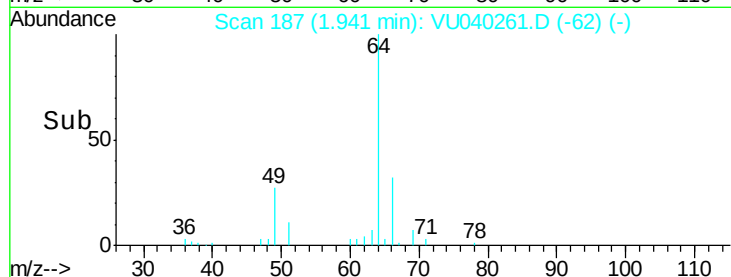
10000

5000

0

Time-->

1.90 1.95 2.00



#9

Trichlorofluoromethane

Concen: 11.230 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU040261.D

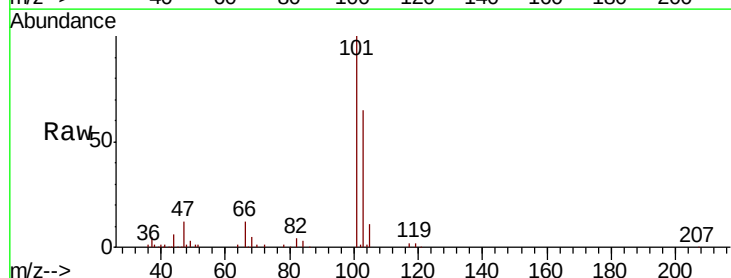
Acq: 24 Sep 2020 09:56

Tgt Ion: 101 Resp: 47302

Ion Ratio Lower Upper

101 100

103 66.2 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): VU040261.D (-127) (-)

Ion 103.00 (102.70 to 103.70): VU040261.D (-127) (-)

2.15

30000

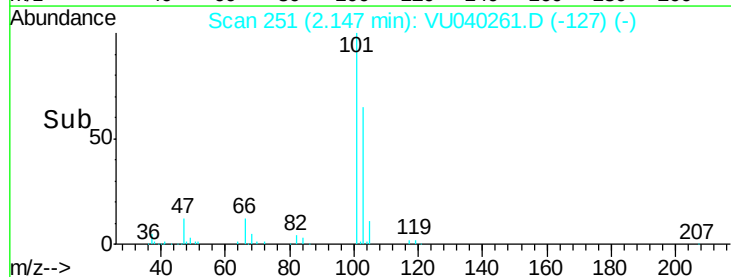
20000

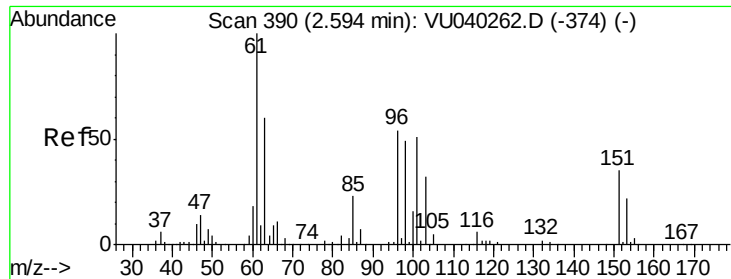
10000

0

Time-->

2.10 2.15 2.20





#10

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

Concen: 11.993 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD010202

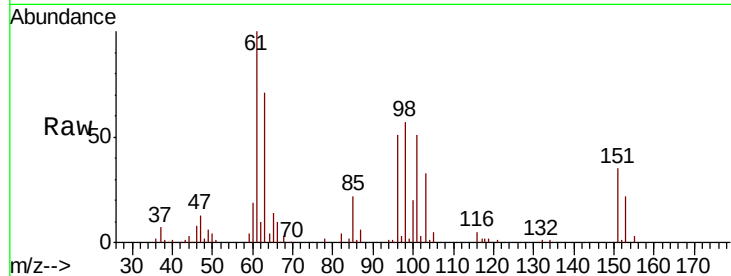
Tot Ion:101 Resp: 30705

Ion Ratio Lower Upper

101 100

85 42.8 36.0 54.0

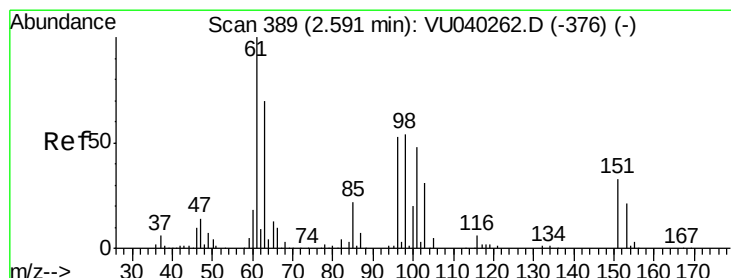
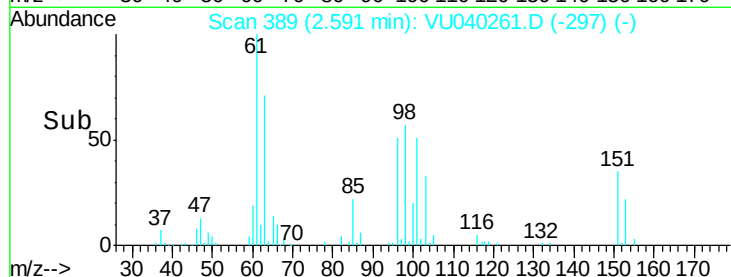
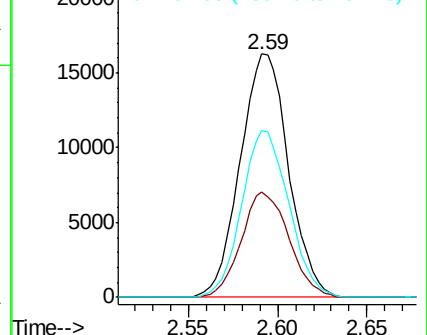
151 66.7 54.5 81.7



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: 10.827 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

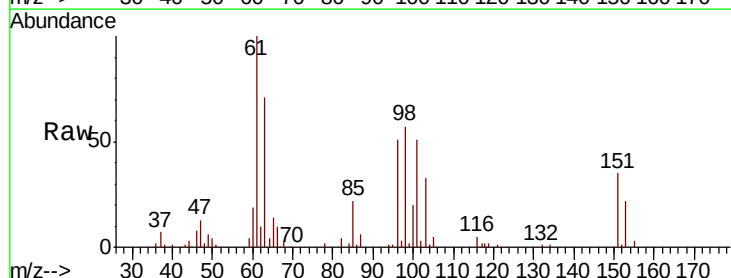
Tgt Ion: 96 Resp: 26600

Ion Ratio Lower Upper

96 100

61 196.9 131.8 244.8

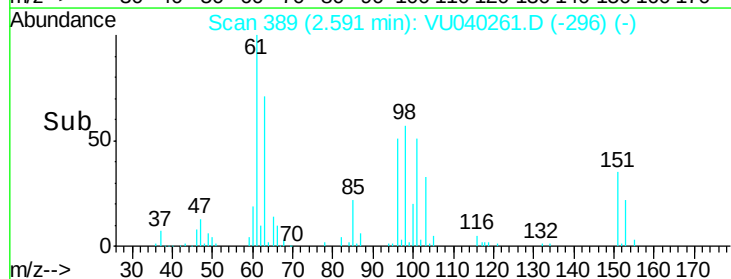
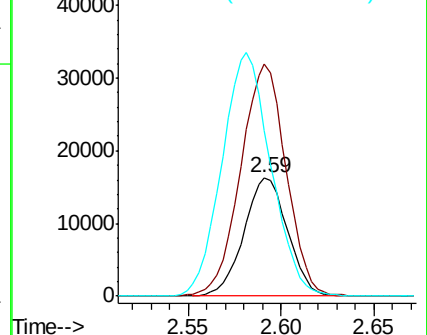
63 139.8 94.1 174.7

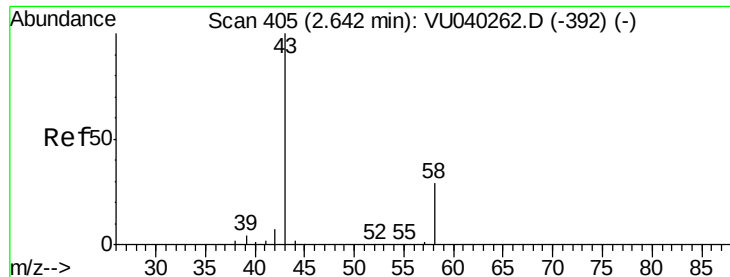


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 22.164 ug/L

RT: 2.64 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

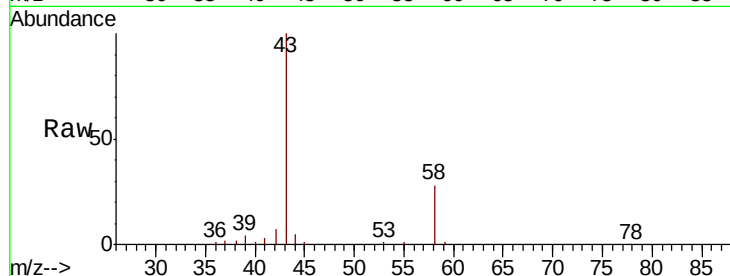
VSTD010202

Tot Ion: 43 Resp: 55865

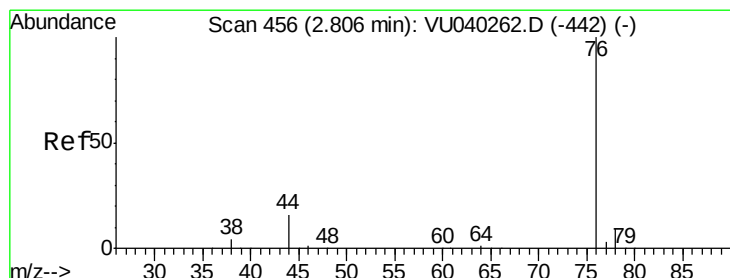
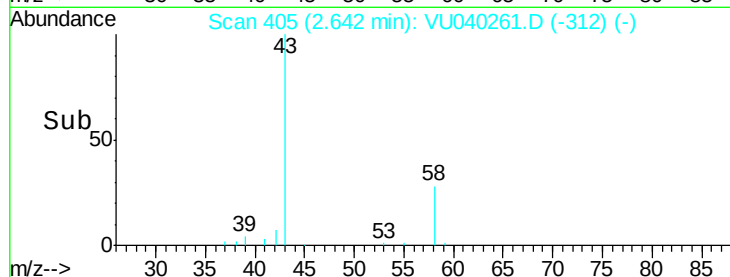
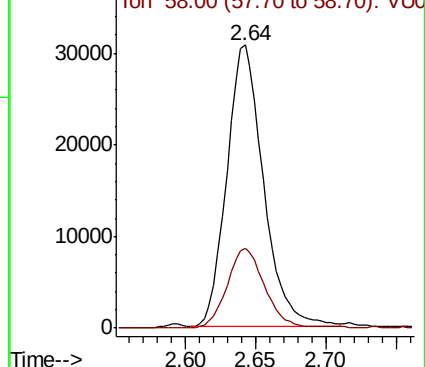
Ion Ratio Lower Upper

43 100

58 28.7 0.0 58.2



Abundance Ion 43.00 (42.70 to 43.70): VU040261.D (-312) (-)



#14

Carbon disulfide

Concen: 11.672 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040261.D

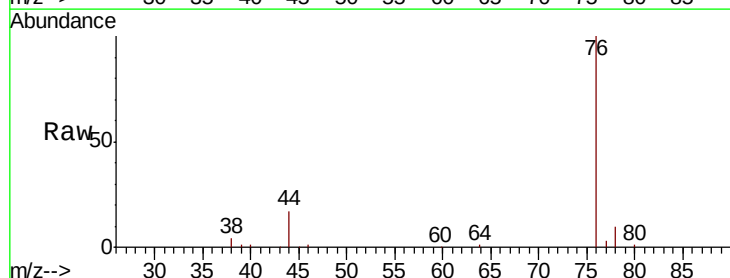
Acq: 24 Sep 2020 09:56

Tgt Ion: 76 Resp: 87376

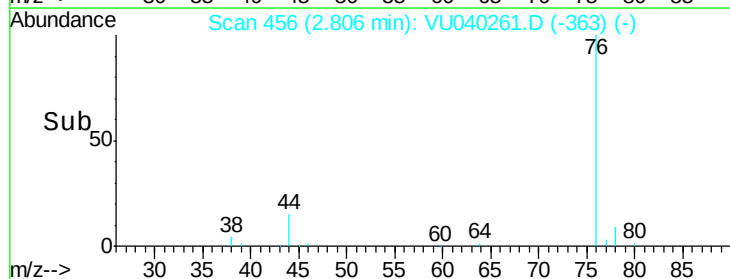
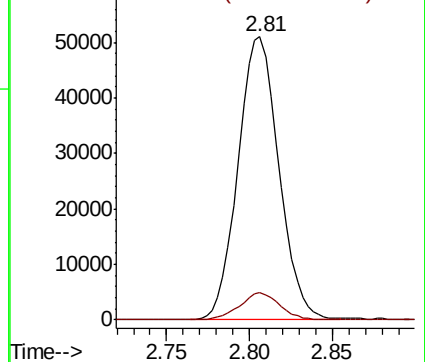
Ion Ratio Lower Upper

76 100

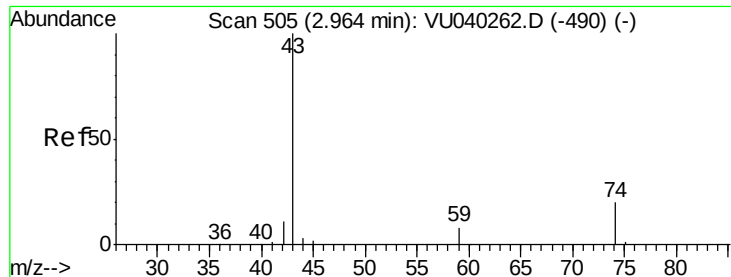
78 9.6 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU040261.D (-363) (-)



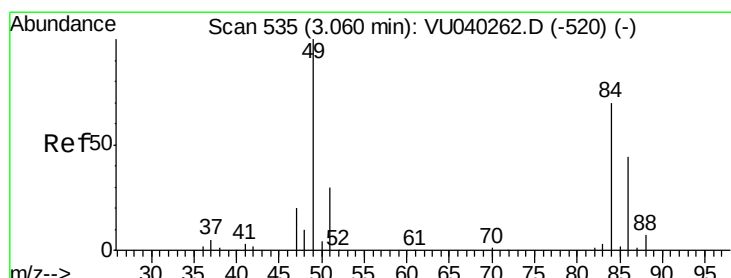
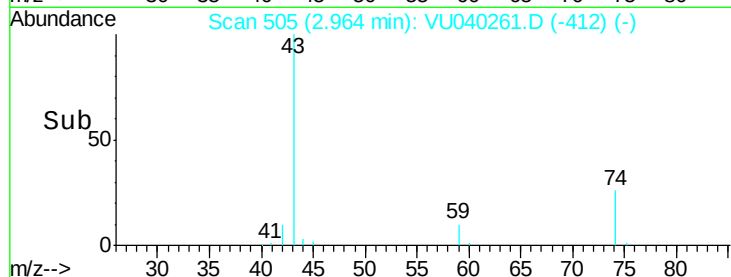
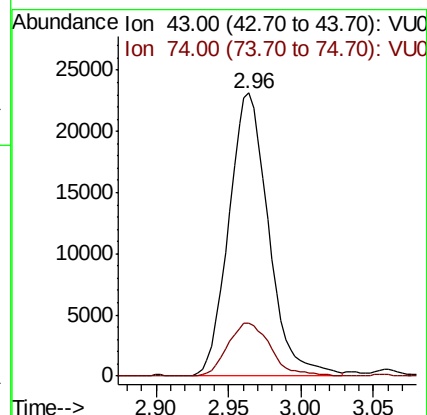
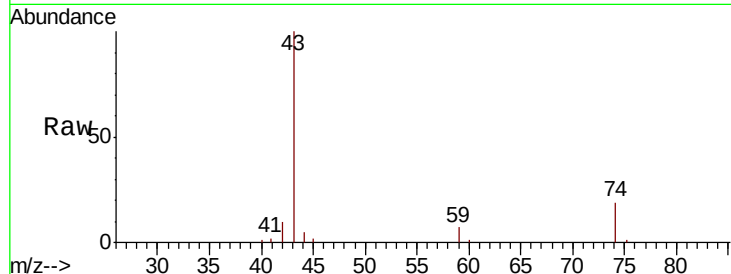




#15  
Methvl Acetate  
Concen: 12.185 ug/L  
RT: 2.96 min Scan# 505  
Delta R.T. 0.00 min  
Lab File: VU040261.D  
Acq: 24 Sep 2020 09:56

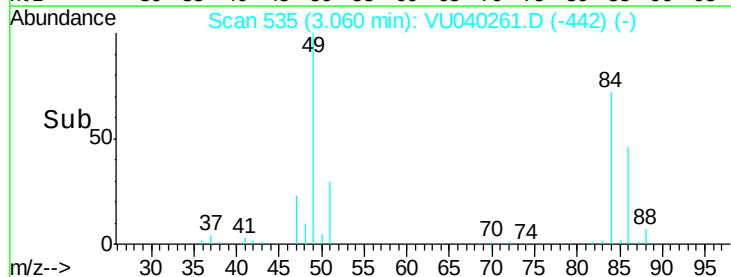
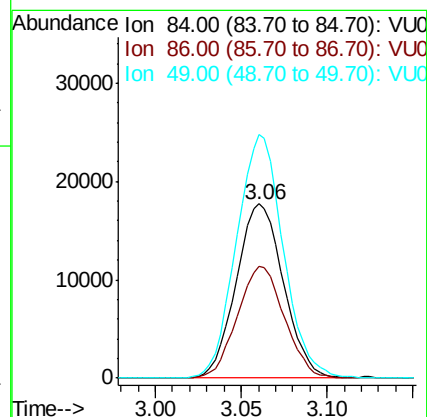
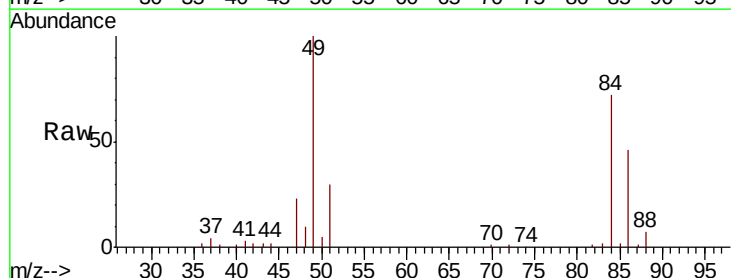
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010202

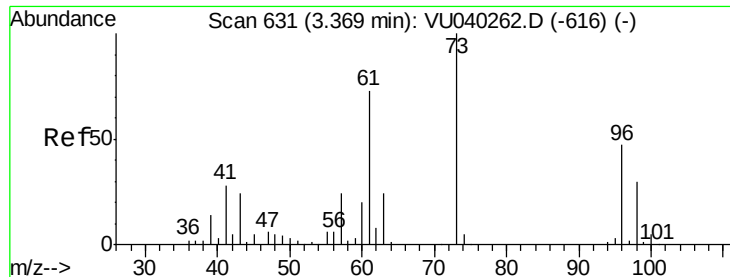
Tot Ion: 43 Resp: 44061  
Ion Ratio Lower Upper  
43 100  
74 20.2 16.2 24.4



#16  
Methylene chloride  
Concen: 11.233 ug/L  
RT: 3.06 min Scan# 535  
Delta R.T. 0.00 min  
Lab File: VU040261.D  
Acq: 24 Sep 2020 09:56

Tgt Ion: 84 Resp: 33943  
Ion Ratio Lower Upper  
84 100  
86 64.1 43.9 81.5  
49 139.7 99.7 185.1





#17

trans-1,2-Dichloroethene

Concen: 10.674 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD010202

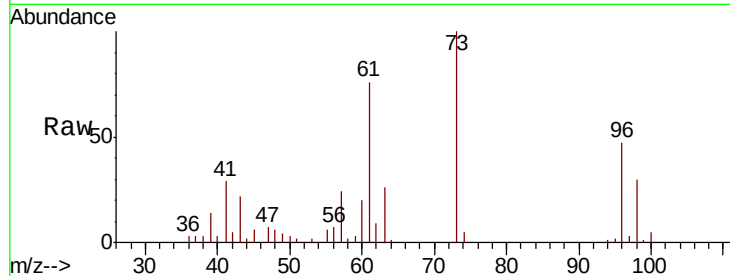
Tot Ion: 96 Resp: 27992

Ion Ratio Lower Upper

96 100

61 161.4 108.1 200.9

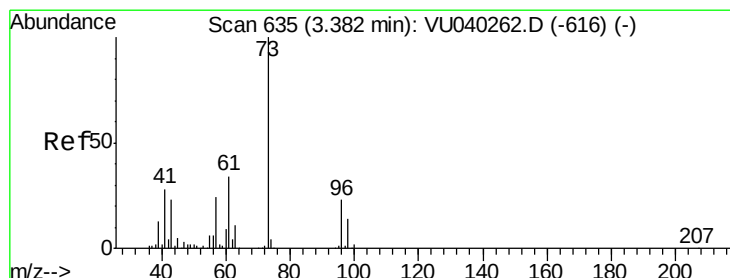
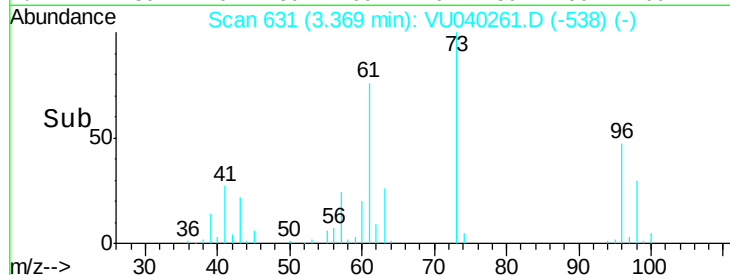
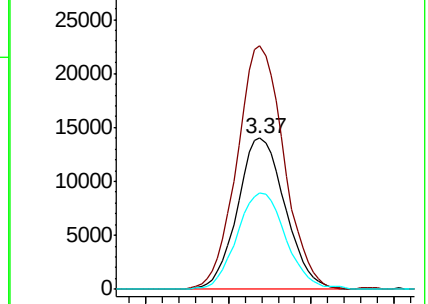
98 63.5 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU040261.D (-538) (-)

Ion 61.00 (60.70 to 61.70): VU040261.D (-538) (-)

Ion 98.00 (97.70 to 98.70): VU040261.D (-538) (-)



#18

Methyl tert-butyl Ether

Concen: 9.846 ug/L

RT: 3.38 min Scan# 634

Delta R.T. -0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

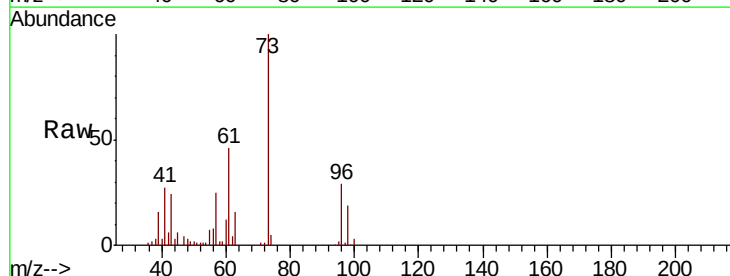
Tgt Ion: 73 Resp: 88769

Ion Ratio Lower Upper

73 100

43 23.4 18.5 27.7

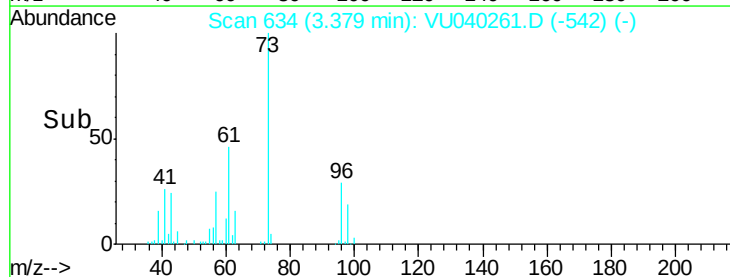
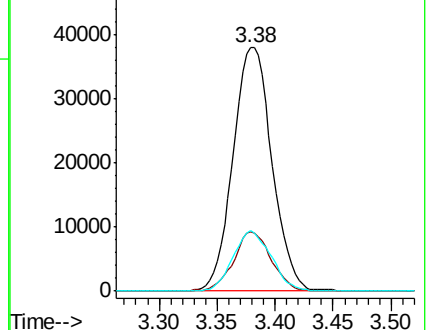
57 24.2 18.8 28.2

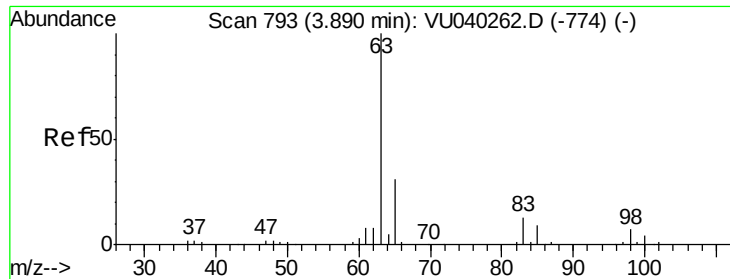


Abundance Ion 73.00 (72.70 to 73.70): VU040261.D (-542) (-)

Ion 43.00 (42.70 to 43.70): VU040261.D (-542) (-)

Ion 57.00 (56.70 to 57.70): VU040261.D (-542) (-)





#19

1,1-Dichloroethane

Concen: 11.713 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD010202

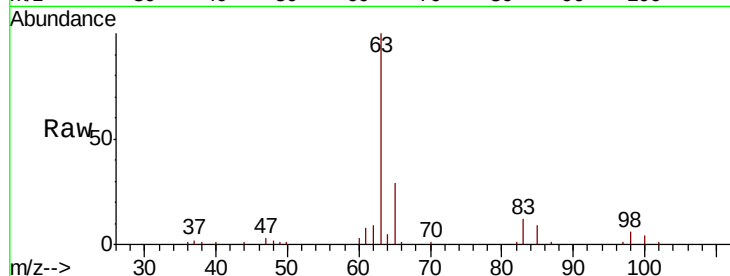
Tot Ion: 63 Resp: 61795

Ion Ratio Lower Upper

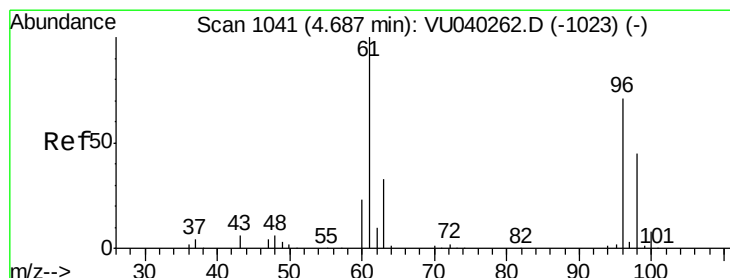
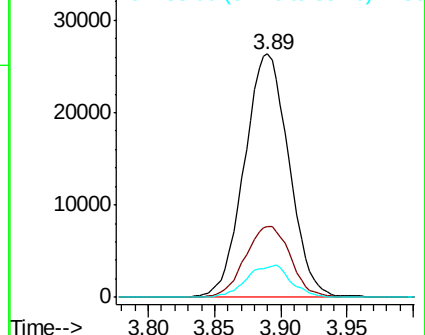
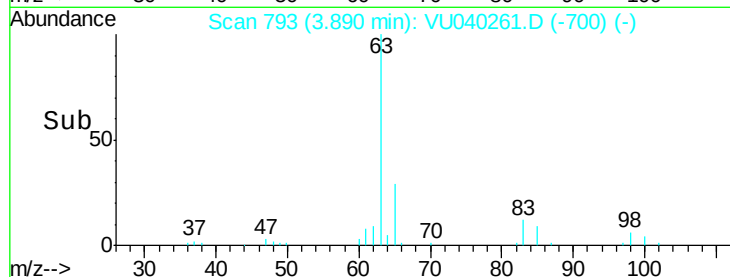
63 100

65 29.3 22.0 40.8

83 12.0 8.9 16.5



Abundance Ion 63.00 (62.70 to 63.70): VU040261.D (-700) (-)



#20

cis-1,2-Dichloroethene

Concen: 10.255 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

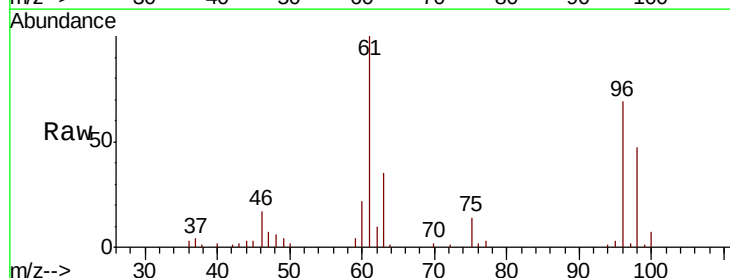
Tgt Ion: 96 Resp: 30319

Ion Ratio Lower Upper

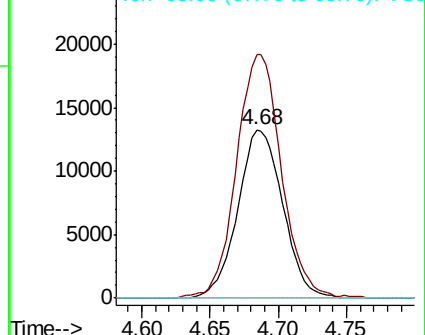
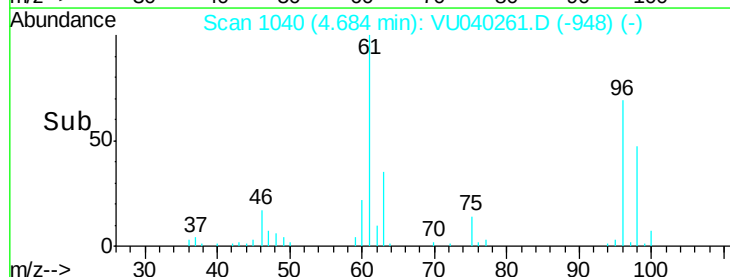
96 100

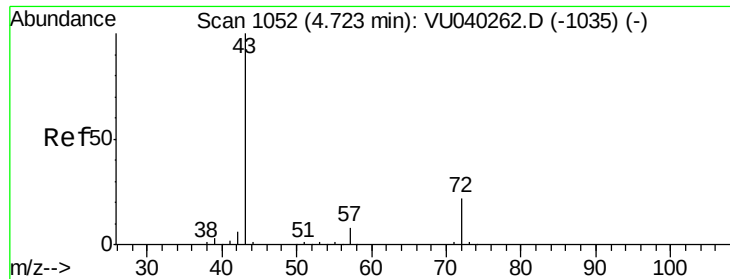
61 144.3 98.6 183.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040261.D (-948) (-)





#22

2-Butanone

Concen: 21.458 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

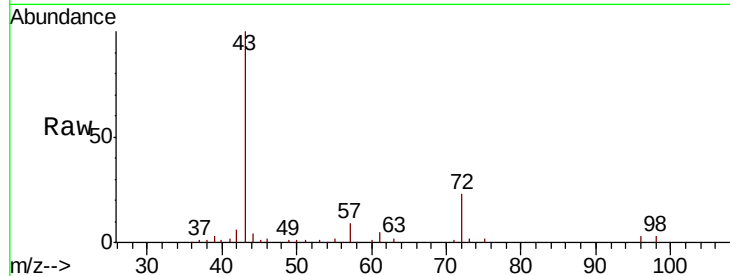
VSTD010202

Tot Ion: 43 Resp: 64222

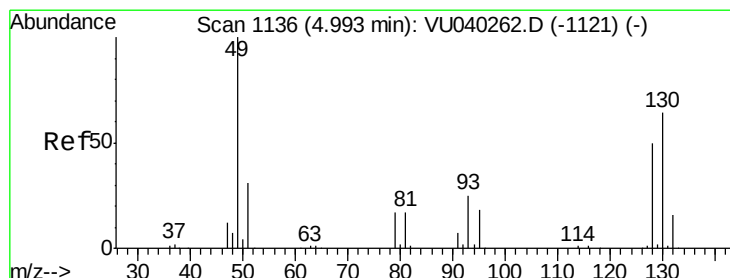
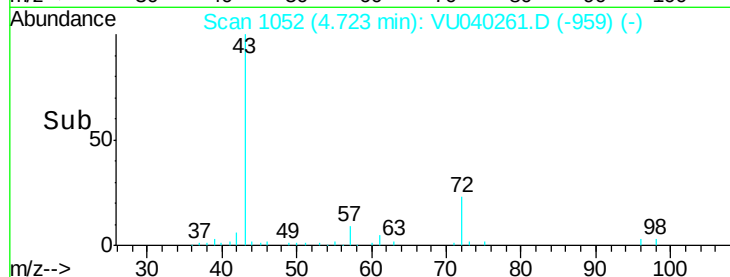
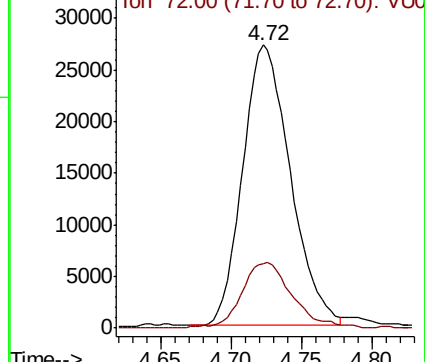
Ion Ratio Lower Upper

43 100

72 23.2 11.5 34.4



Abundance Ion 43.00 (42.70 to 43.70): VU040261.D (-959) (-)



#23

Bromochloromethane

Concen: 11.888 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Tgt Ion: 128 Resp: 16849

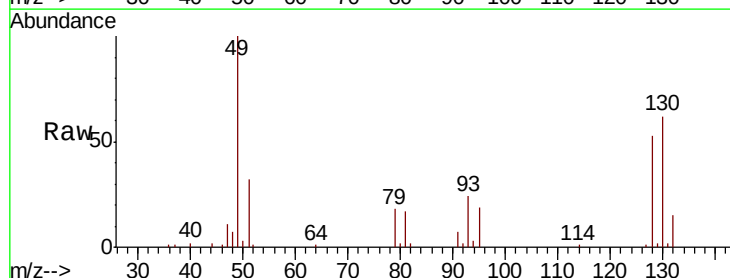
Ion Ratio Lower Upper

128 100

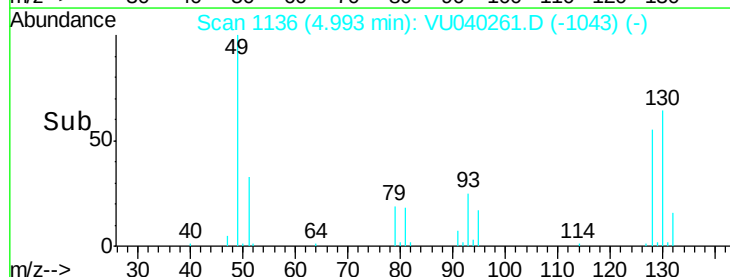
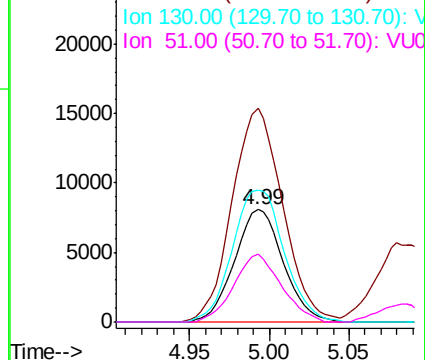
49 189.8 140.8 261.4

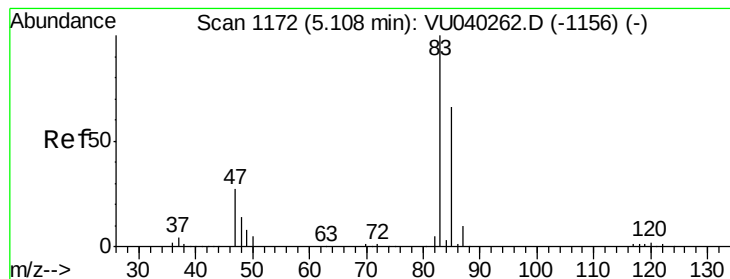
130 116.8 89.2 165.6

51 59.8 50.2 75.4



Abundance Ion 128.00 (127.70 to 128.70): VU040261.D (-1043) (-)





#25

Chloroform

Concen: 11.933 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

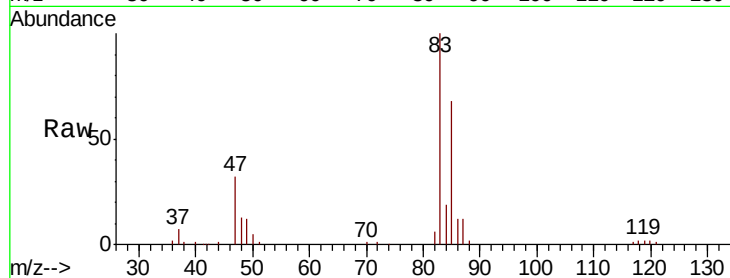
VSTD010202

Tot Ion: 83 Resp: 61547

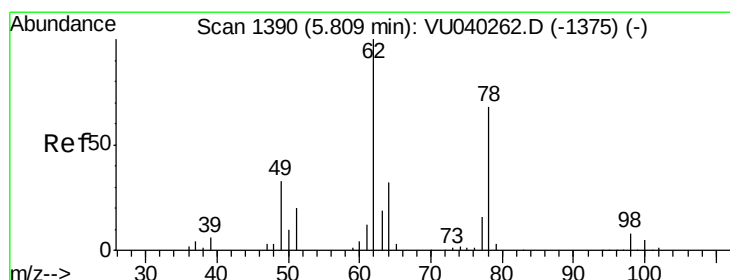
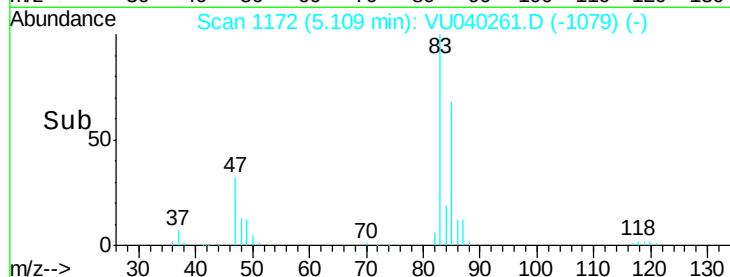
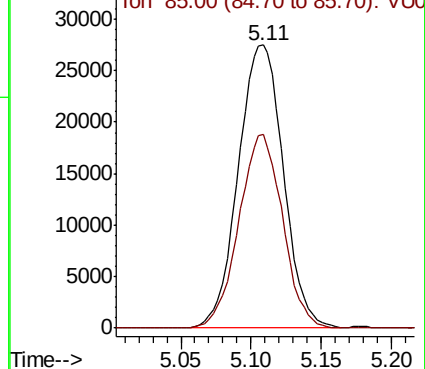
Ion Ratio Lower Upper

83 100

85 68.3 46.4 86.2



Abundance Ion 83.00 (82.70 to 83.70): VU040261.D (-1079) (-)



#27

1,2-Dichloroethane

Concen: 12.143 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU040261.D

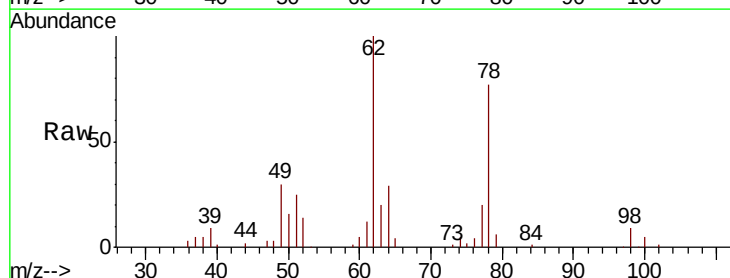
Acq: 24 Sep 2020 09:56

Tgt Ion: 62 Resp: 52542

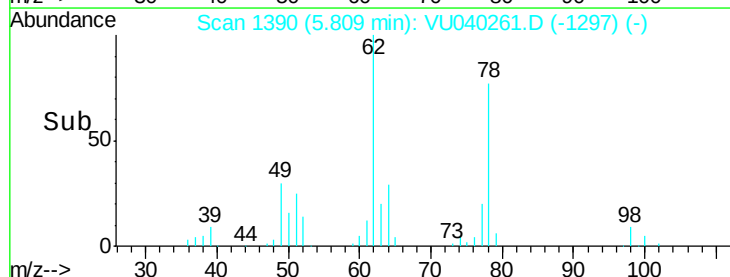
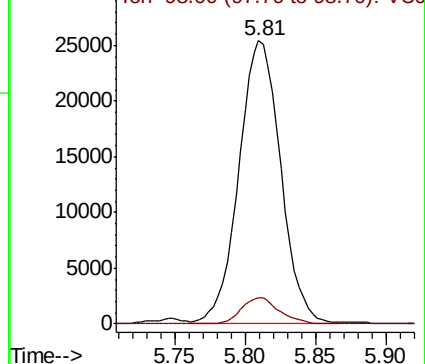
Ion Ratio Lower Upper

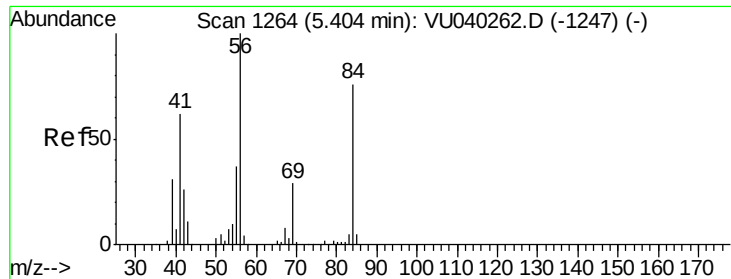
62 100

98 9.0 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU040261.D (-1297) (-)

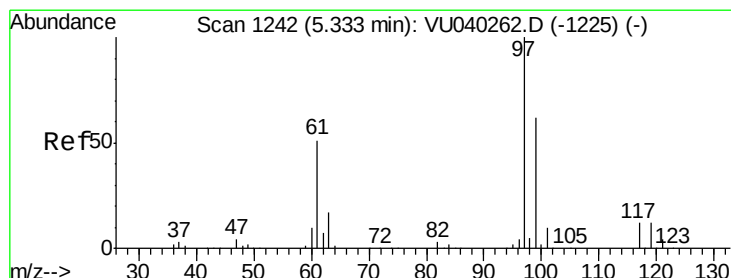
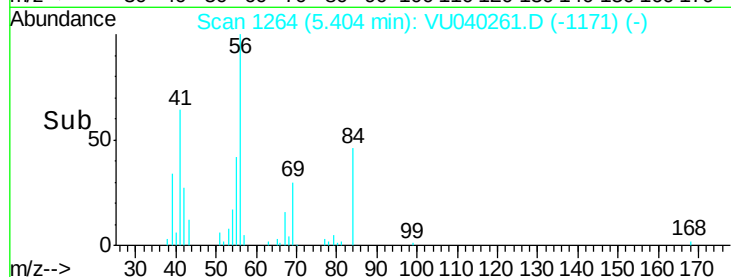
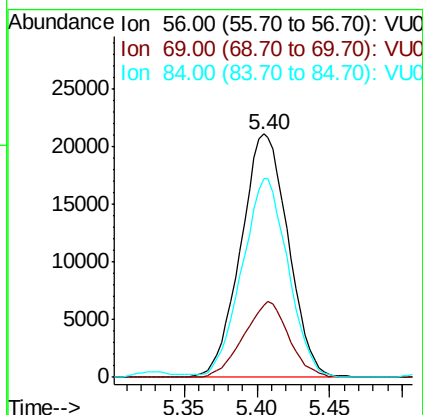
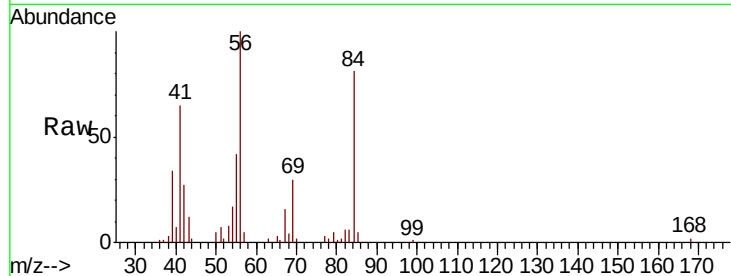




#29  
Cyclohexane  
Concen: 9.423 ug/L  
RT: 5.40 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: VU040261.D  
Acq: 24 Sep 2020 09:56

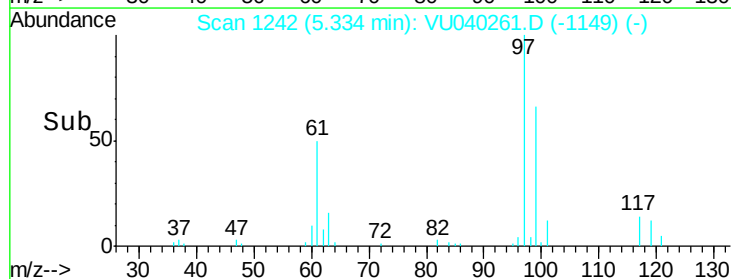
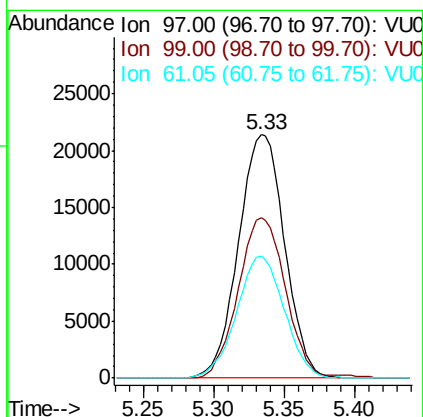
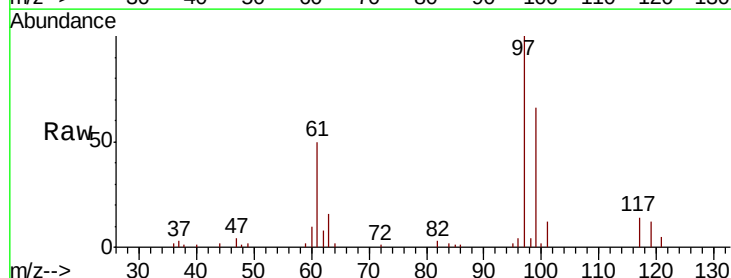
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010202

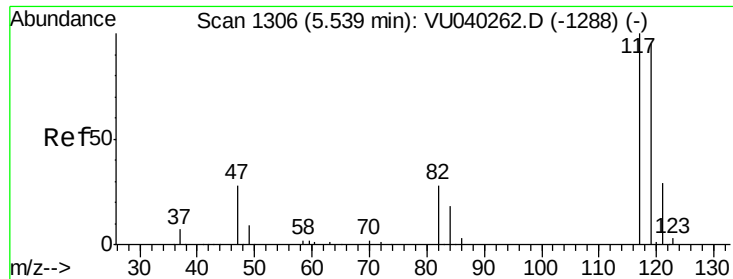
Tot Ion: 56 Resp: 47984  
Ion Ratio Lower Upper  
56 100  
69 29.5 22.6 33.8  
84 79.3 61.9 92.9



#30  
1,1,1-Trichloroethane  
Concen: 11.368 ug/L  
RT: 5.33 min Scan# 1242  
Delta R.T. 0.00 min  
Lab File: VU040261.D  
Acq: 24 Sep 2020 09:56

Tgt Ion: 97 Resp: 48981  
Ion Ratio Lower Upper  
97 100  
99 67.1 50.8 76.2  
61 51.7 40.2 60.4





#31

Carbon tetrachloride

Concen: 12.160 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

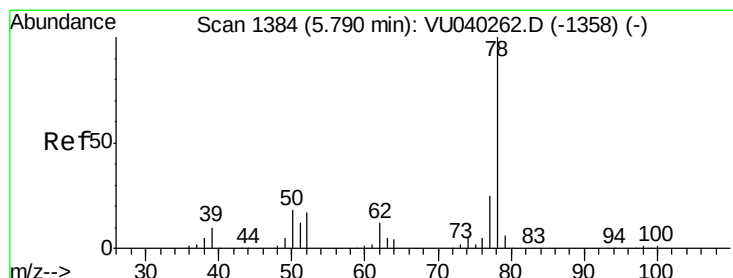
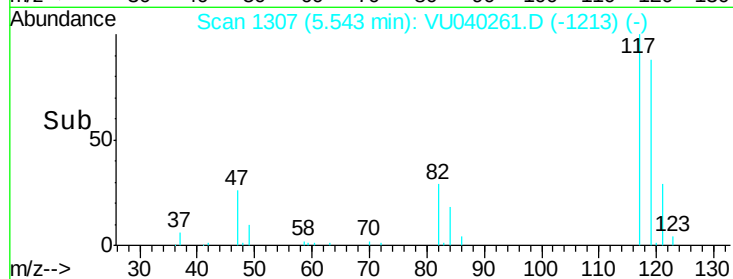
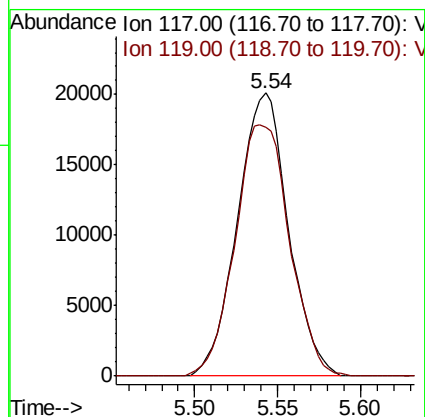
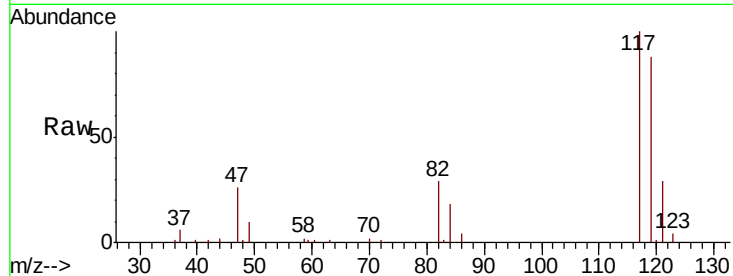
VSTD010202

Tot Ion:117 Resp: 42959

Ion Ratio Lower Upper

117 100

119 95.0 77.4 116.2



#33

Benzene

Concen: 10.479 ug/L

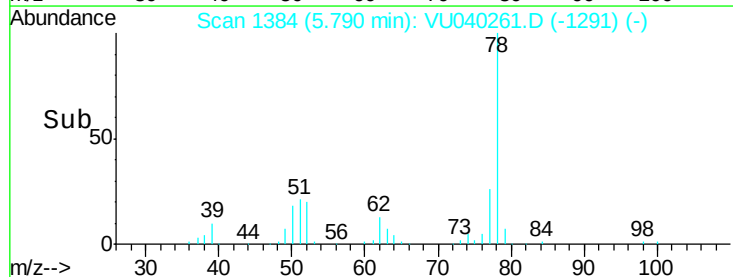
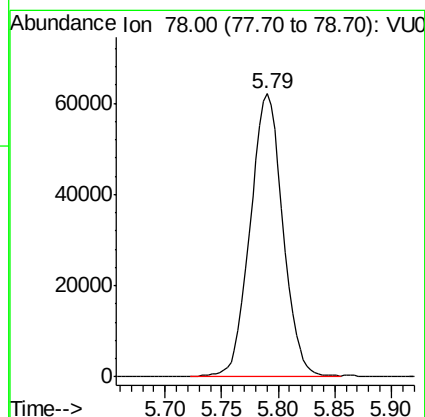
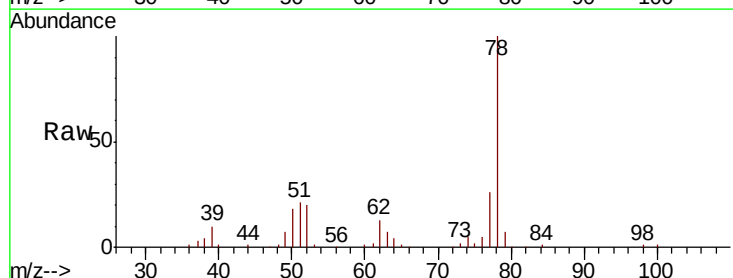
RT: 5.79 min Scan# 1384

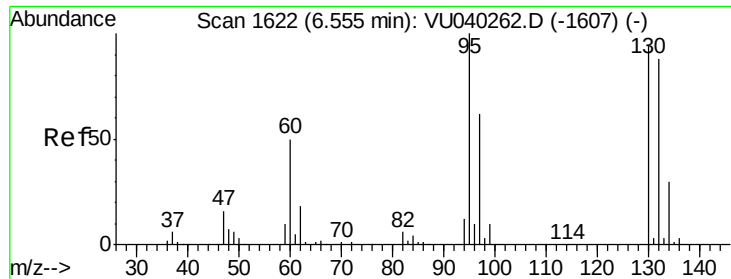
Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Tgt Ion: 78 Resp: 125050

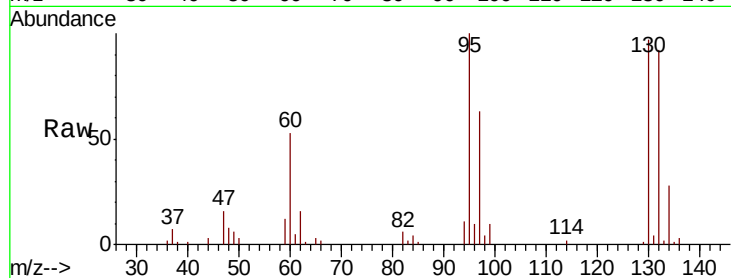




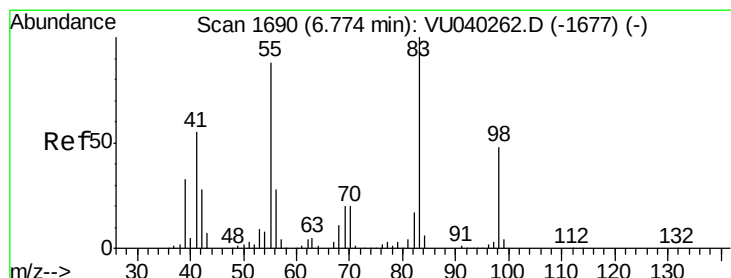
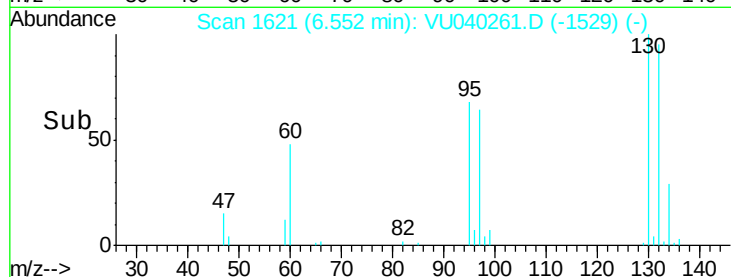
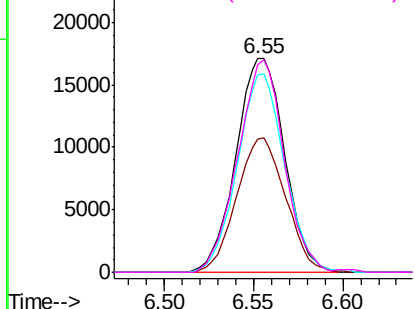
#34  
 Trichloroethene  
 Concen: 10.941 ug/L  
 RT: 6.55 min Scan# 1621  
 Delta R.T. -0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

Tot Ion: 95 Resp: 32507  
 Ion Ratio Lower Upper  
 95 100  
 97 62.5 43.8 81.3  
 132 92.4 61.7 114.7  
 130 97.0 65.9 122.5

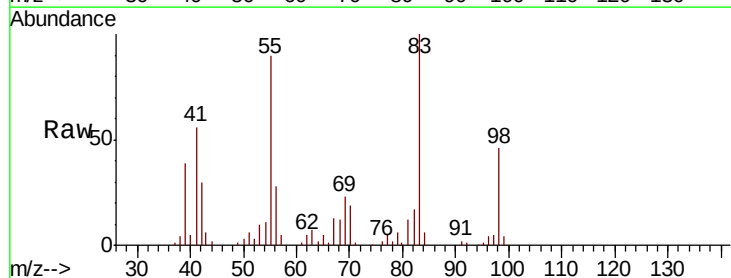


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

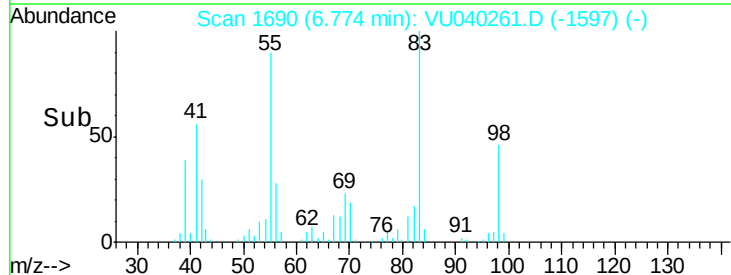
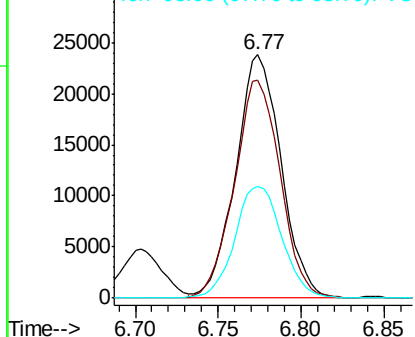


#35  
 Methylcyclohexane  
 Concen: 8.865 ug/L  
 RT: 6.77 min Scan# 1690  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

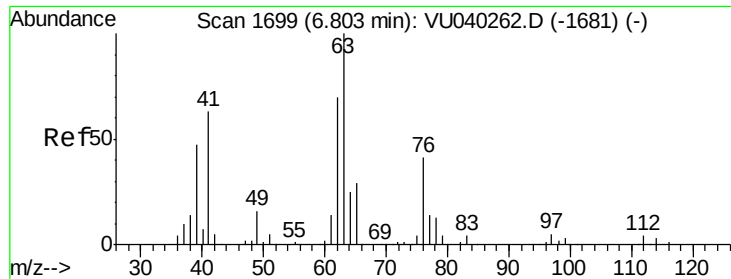
Tgt Ion: 83 Resp: 45404  
 Ion Ratio Lower Upper  
 83 100  
 55 90.5 69.4 104.0  
 98 47.8 38.7 58.1



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



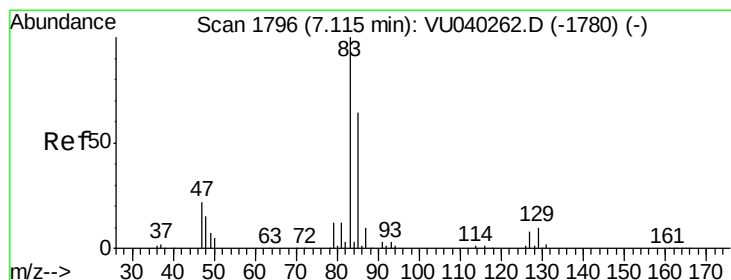
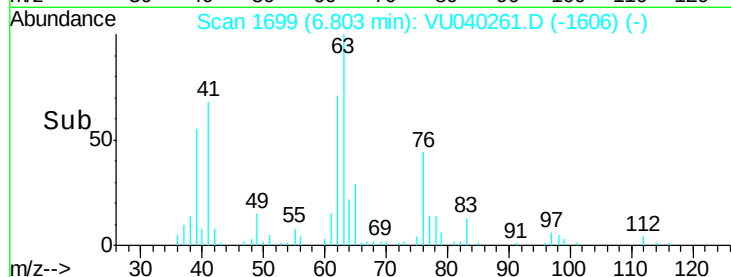
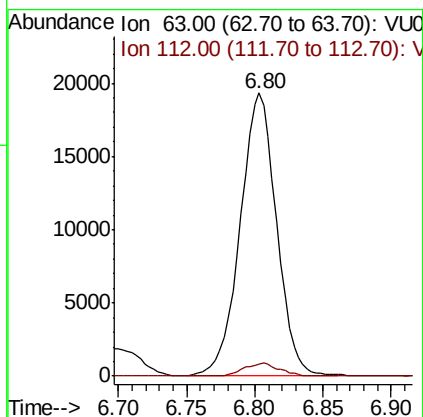
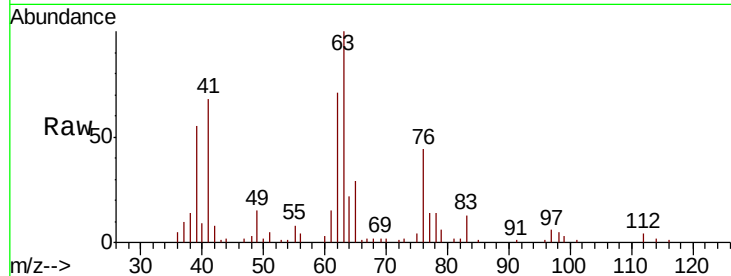




#37  
 1,2-Dichloropropane  
 Concen: 11.086 ug/L  
 RT: 6.80 min Scan# 1699  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

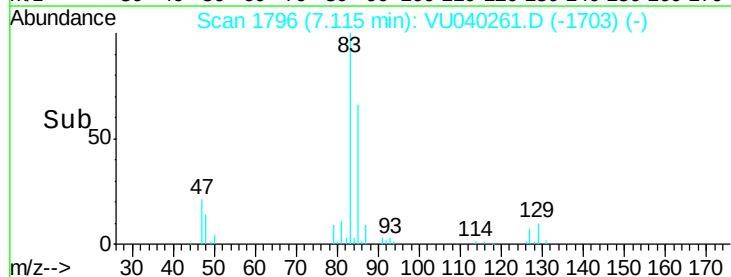
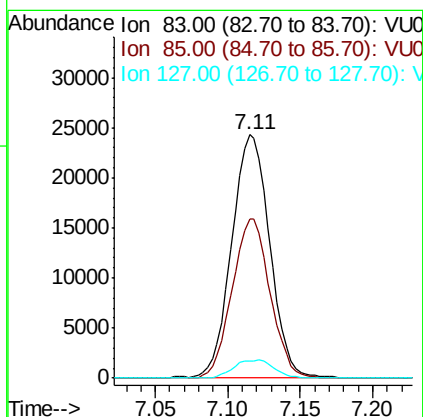
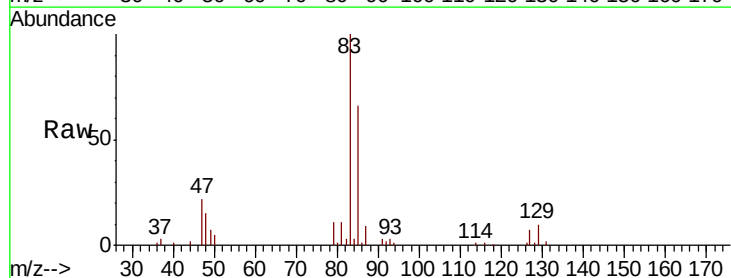
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

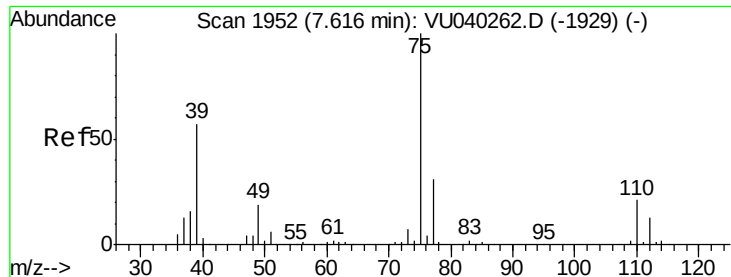
Tot Ion: 63 Resp: 35884  
 Ion Ratio Lower Upper  
 63 100  
 112 4.4 3.1 4.7



#38  
 Bromodichloromethane  
 Concen: 11.166 ug/L  
 RT: 7.11 min Scan# 1796  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

Tgt Ion: 83 Resp: 44401  
 Ion Ratio Lower Upper  
 83 100  
 85 65.5 44.9 83.5  
 127 7.1 6.4 9.6

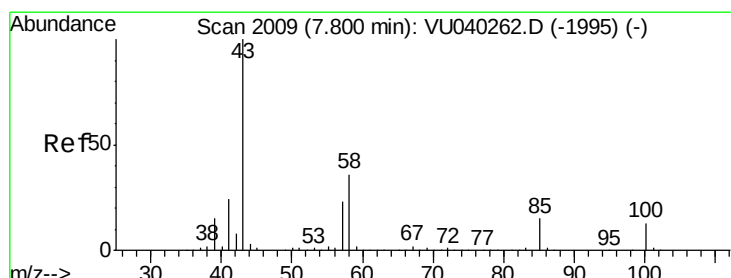
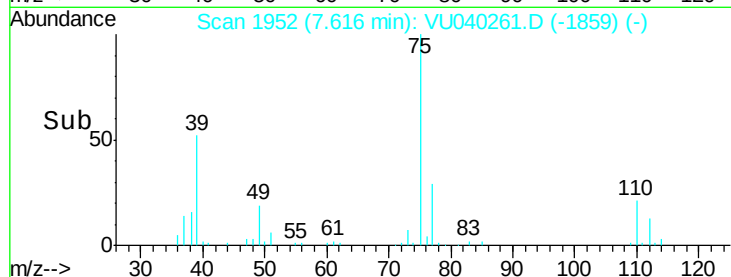
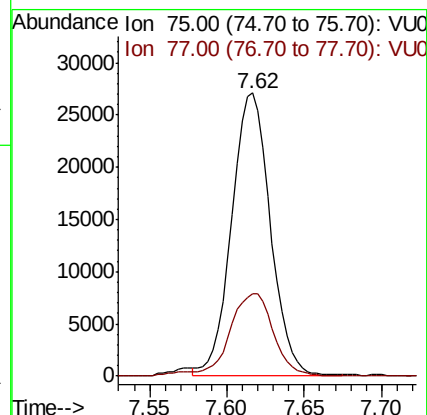
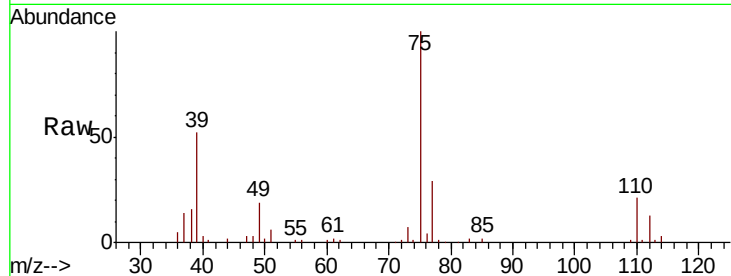




#39  
 cis-1,3-Dichloropropene  
 Concen: 9.261 ug/L  
 RT: 7.62 min Scan# 1952  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

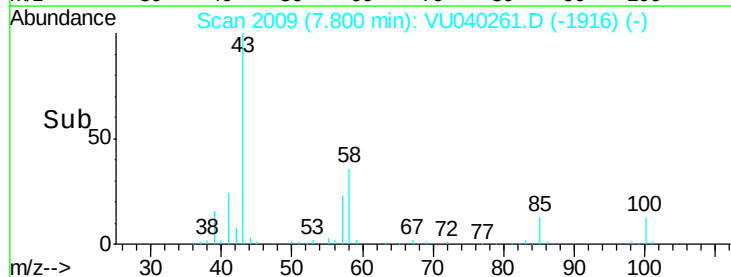
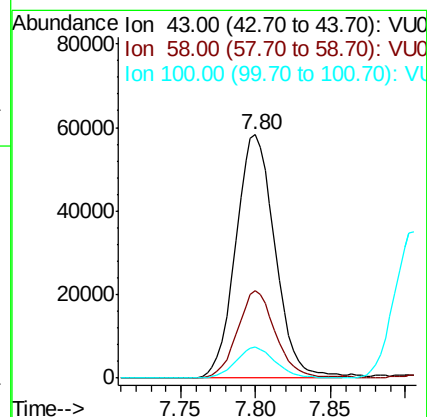
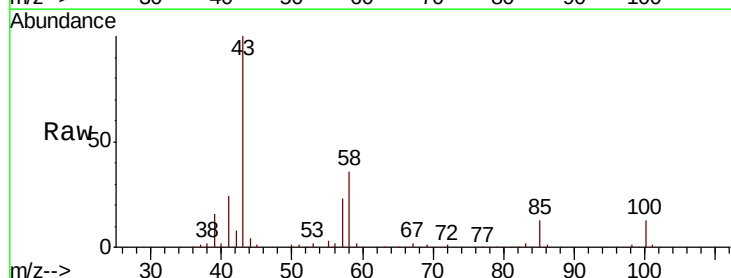
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

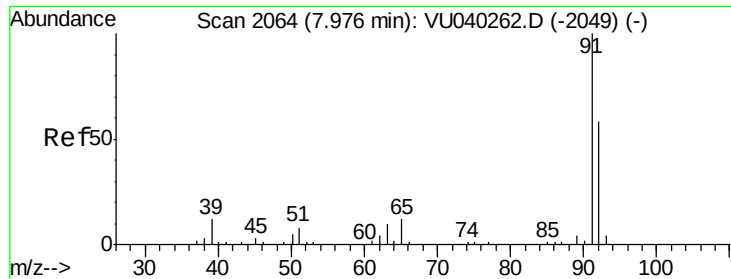
Tot Ion: 75 Resp: 47206  
 Ion Ratio Lower Upper  
 75 100  
 77 29.1 21.9 40.7



#40  
 4-Methyl-2-pentanone  
 Concen: 20.586 ug/L  
 RT: 7.80 min Scan# 2009  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

Tgt Ion: 43 Resp: 106679  
 Ion Ratio Lower Upper  
 43 100  
 58 34.6 28.5 42.7  
 100 12.7 10.0 15.0





#42

Toluene

Concen: 9.684 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

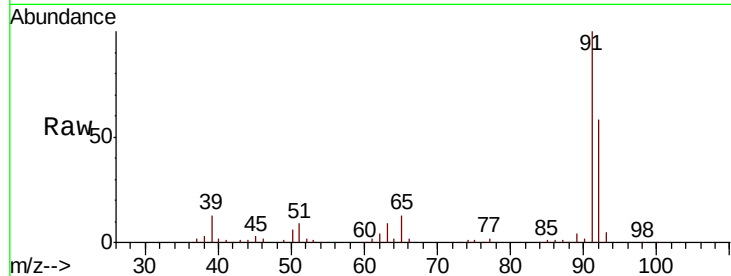
VSTD010202

Tot Ion: 91 Resp: 124019

Ion Ratio Lower Upper

91 100

92 57.6 40.9 75.9



Abundance Ion 91.00 (90.70 to 91.70): VU040262.D (-2049) (-)

Ion 92.00 (91.70 to 92.70): VU040262.D (-2049) (-)

7.98

80000

60000

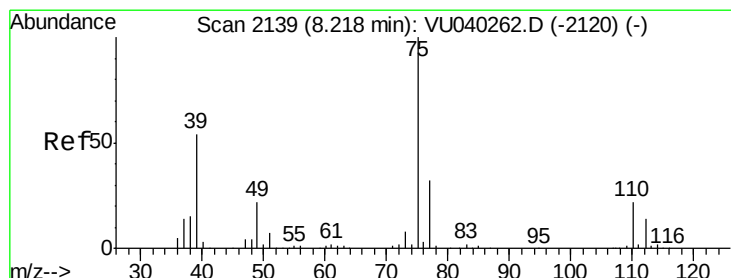
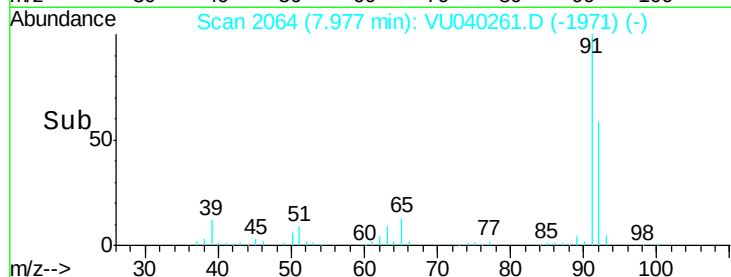
40000

20000

0

Time-->

7.90 7.95 8.00 8.05



#44

trans-1,3-Dichloropropene

Concen: 10.725 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040261.D

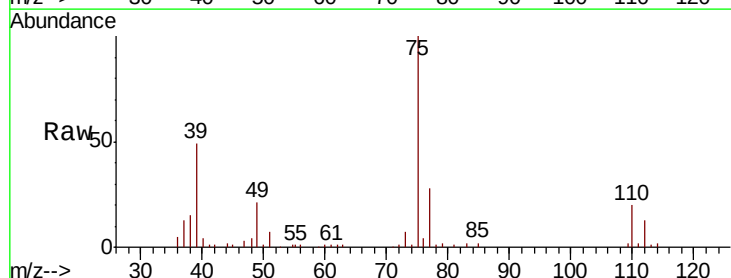
Acq: 24 Sep 2020 09:56

Tgt Ion: 75 Resp: 49019

Ion Ratio Lower Upper

75 100

77 28.3 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VU040262.D (-2120) (-)

Ion 77.00 (76.70 to 77.70): VU040262.D (-2120) (-)

8.21

30000

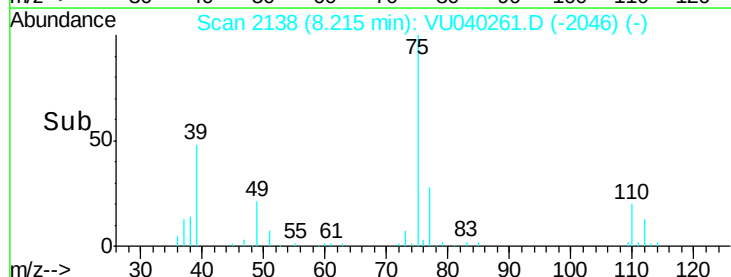
20000

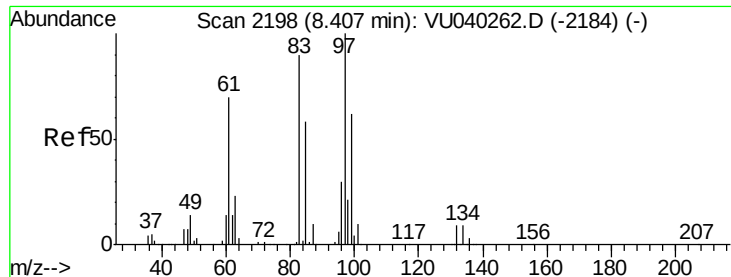
10000

0

Time-->

8.15 8.20 8.25

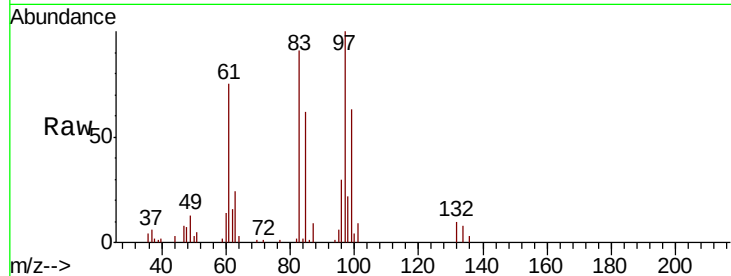




#45  
 1,1,2-Trichloroethane  
 Concen: 10.525 ug/L  
 RT: 8.40 min Scan# 2197  
 Delta R.T. -0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

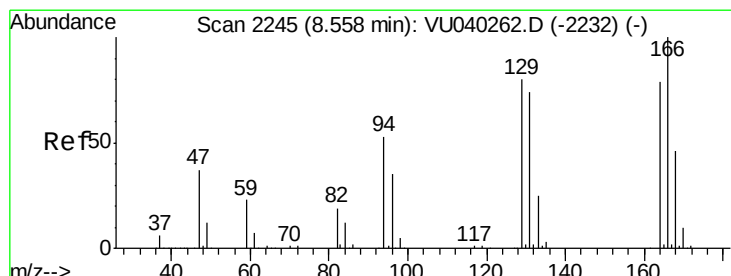
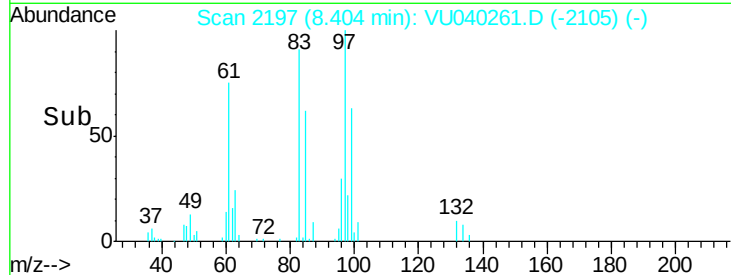
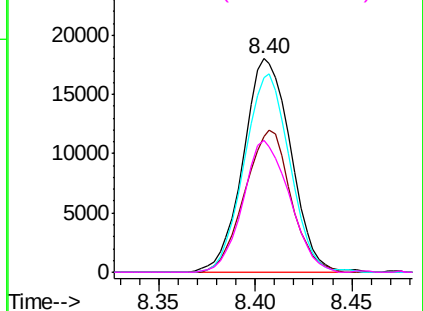
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 30762 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.4  | 43.3  | 80.5  |
| 83       | 91.3  | 62.7  | 116.5 |
| 85       | 62.0  | 40.7  | 75.5  |



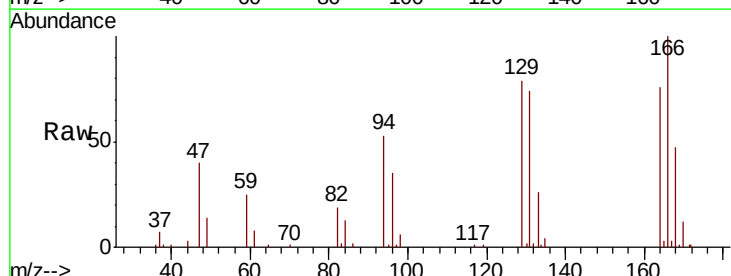
Abundance

Ion 97.00 (96.70 to 97.70): VU040261.D (-2197) (-)



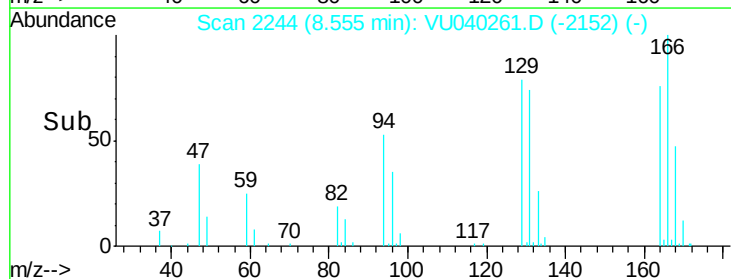
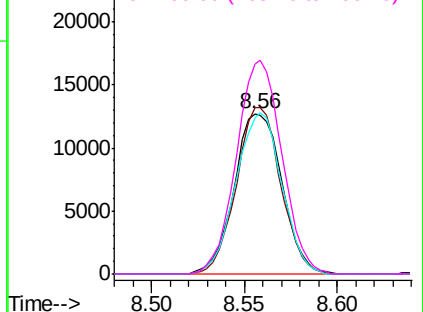
#46  
 Tetrachloroethene  
 Concen: 10.893 ug/L  
 RT: 8.56 min Scan# 2244  
 Delta R.T. -0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

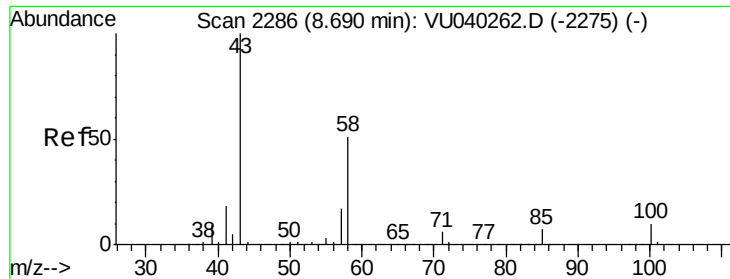
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 22773 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 103.8 | 70.5  | 130.9 |
| 131      | 97.1  | 65.7  | 121.9 |
| 166      | 131.2 | 88.5  | 164.4 |



Abundance

Ion 164.00 (163.70 to 164.70): VU040261.D (-2244) (-)

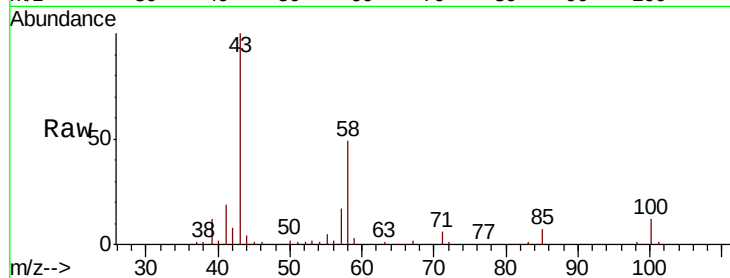




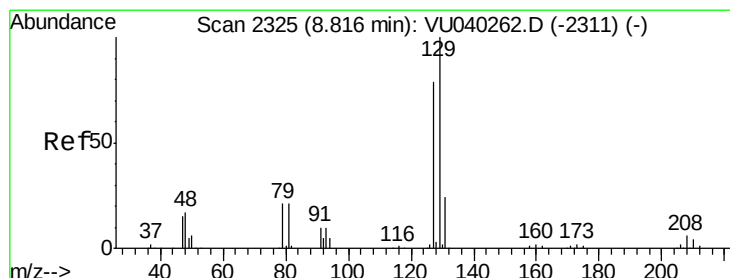
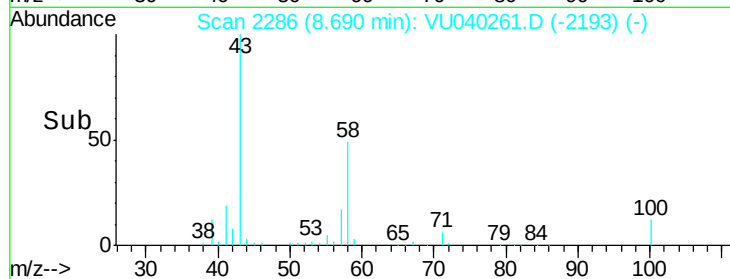
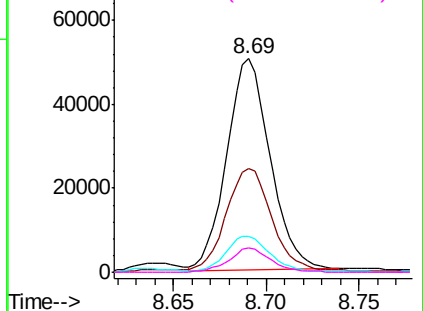
#48  
2-Hexanone  
Concen: 19.316 ug/L  
RT: 8.69 min Scan# 2286  
Delta R.T. 0.00 min  
Lab File: VU040261.D  
Acq: 24 Sep 2020 09:56

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010202

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 82006 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 50.0  | 40.3  | 60.5  |
| 57       | 16.8  | 13.9  | 20.9  |
| 100      | 11.2  | 8.2   | 12.2  |

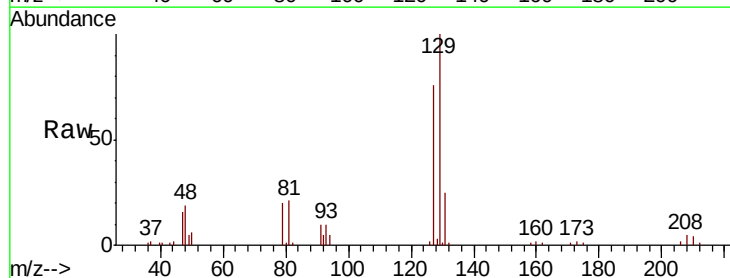


Abundance Ion 43.00 (42.70 to 43.70): VU040261.D (-2193) (-)  
Ion 58.00 (57.70 to 58.70): VU040261.D (-2193) (-)  
Ion 57.00 (56.70 to 57.70): VU040261.D (-2193) (-)  
Ion 100.00 (99.70 to 100.70): VU040261.D (-2193) (-)

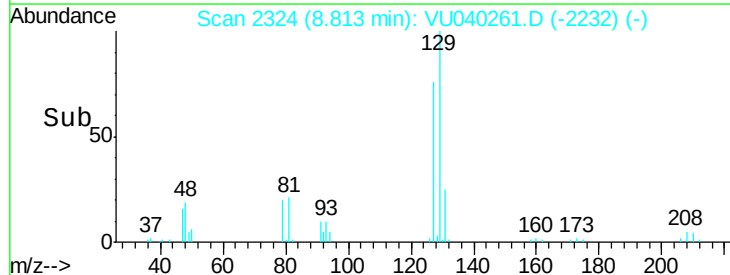
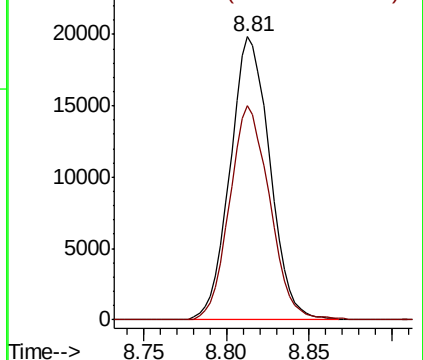


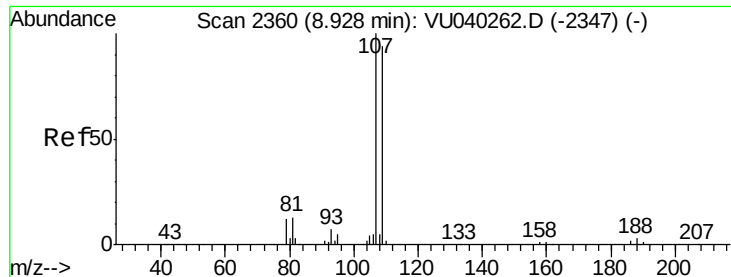
#49  
Dibromochloromethane  
Concen: 11.293 ug/L  
RT: 8.81 min Scan# 2324  
Delta R.T. -0.00 min  
Lab File: VU040261.D  
Acq: 24 Sep 2020 09:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 33123 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 75.6  | 55.1  | 102.3 |



Abundance Ion 129.00 (128.70 to 129.70): VU040261.D (-2232) (-)  
Ion 127.00 (126.70 to 127.70): VU040261.D (-2232) (-)

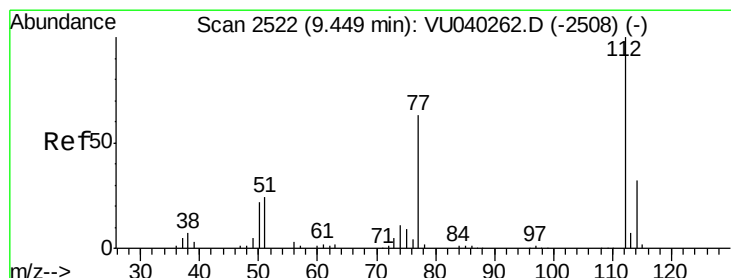
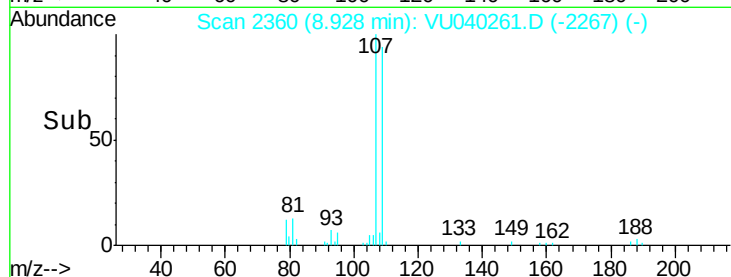
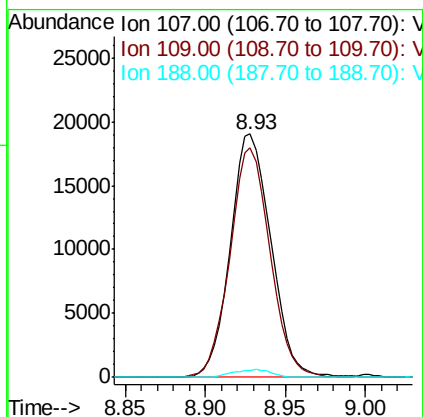
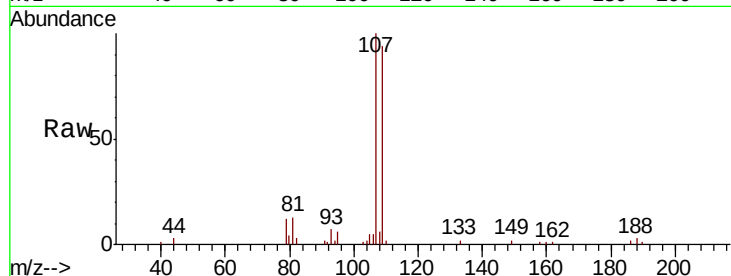




#50  
 1,2-Dibromoethane  
 Concen: 10.699 ug/L  
 RT: 8.93 min Scan# 2360  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

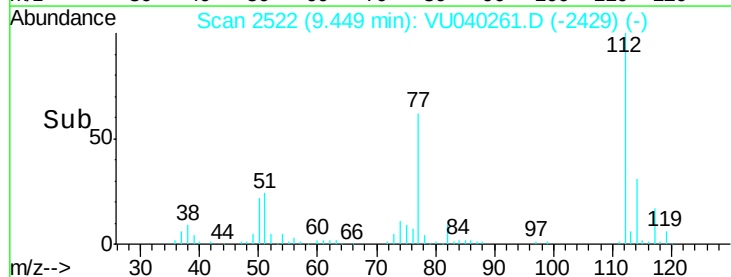
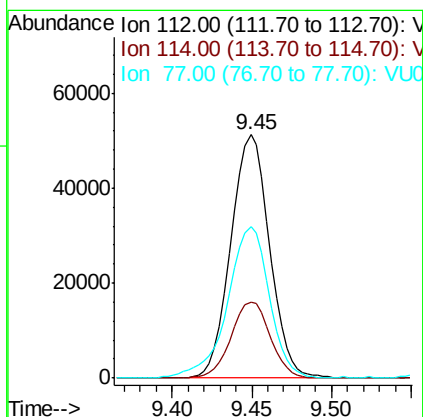
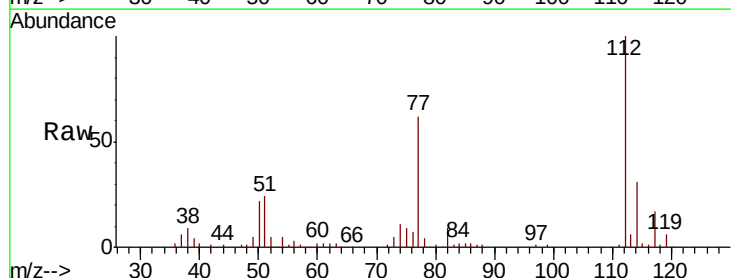
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

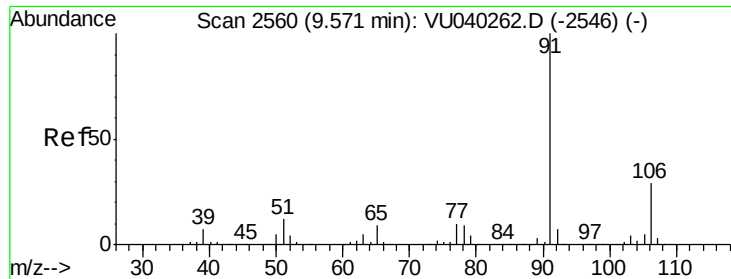
Tot Ion:107 Resp: 32994  
 Ion Ratio Lower Upper  
 107 100  
 109 94.2 65.9 122.3  
 188 3.0 2.6 3.8



#51  
 Chlorobenzene  
 Concen: 10.853 ug/L  
 RT: 9.45 min Scan# 2522  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

Tgt Ion:112 Resp: 84452  
 Ion Ratio Lower Upper  
 112 100  
 114 31.3 22.7 42.3  
 77 62.2 50.7 76.1

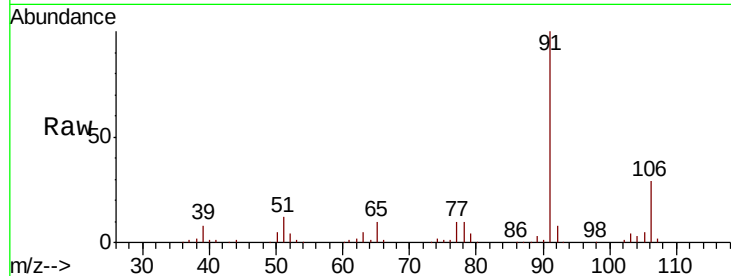




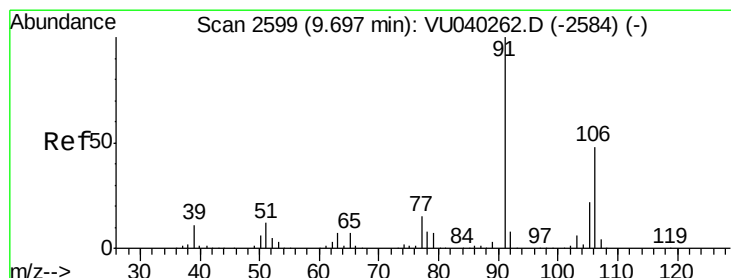
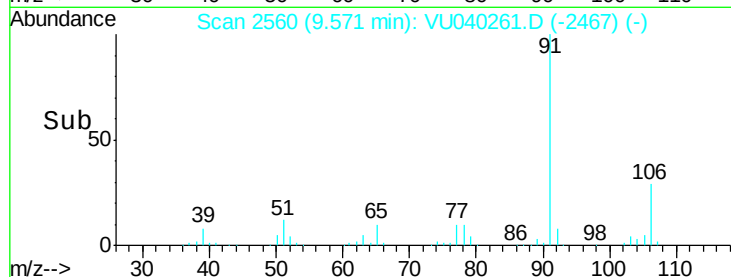
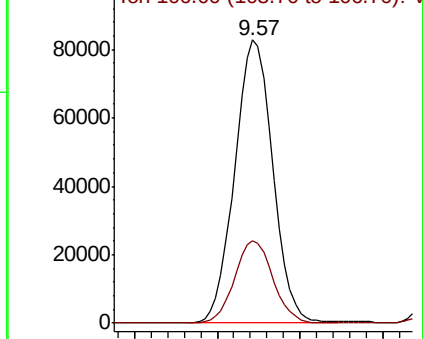
#52  
Ethylbenzene  
Concen: 9.385 ug/L  
RT: 9.57 min Scan# 2560  
Delta R.T. 0.00 min  
Lab File: VU040261.D  
Acq: 24 Sep 2020 09:56

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010202

Tot Ion: 91 Resp: 132149  
Ion Ratio Lower Upper  
91 100  
106 29.2 20.6 38.2

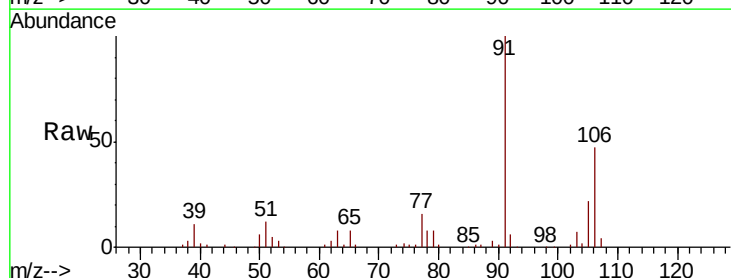


Abundance Ion 91.00 (90.70 to 91.70): VU040262.D (-2546) (-)  
Ion 106.00 (105.70 to 106.70): VU040262.D (-2546) (-)

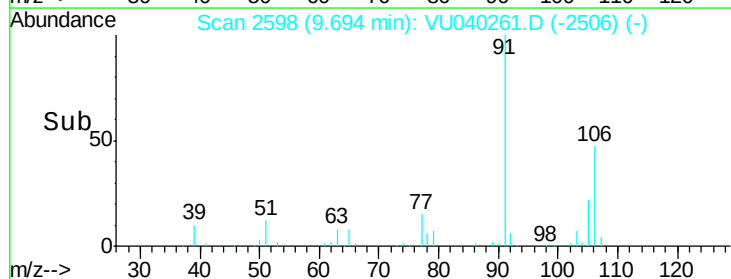
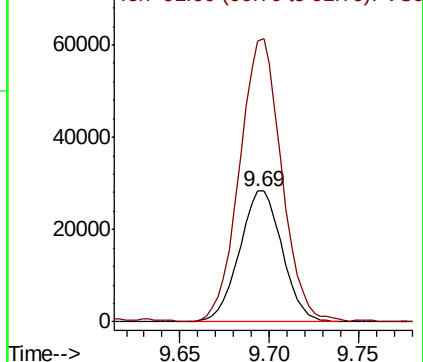


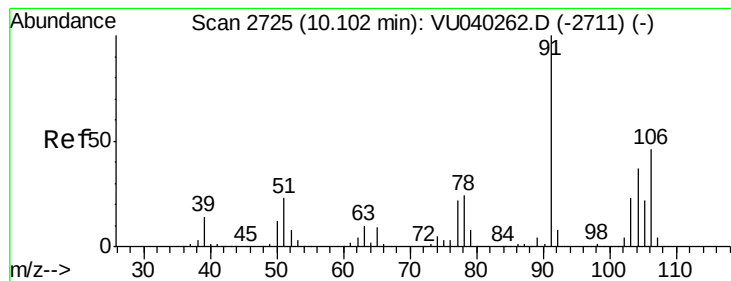
#53  
m,p-Xylene  
Concen: 9.196 ug/L  
RT: 9.69 min Scan# 2598  
Delta R.T. -0.00 min  
Lab File: VU040261.D  
Acq: 24 Sep 2020 09:56

Tgt Ion: 106 Resp: 47690  
Ion Ratio Lower Upper  
106 100  
91 214.1 147.1 273.3



Abundance Ion 106.00 (105.70 to 106.70): VU040262.D (-2584) (-)  
Ion 91.00 (90.70 to 91.70): VU040262.D (-2584) (-)





#54

o-xylene

Concen: 9.064 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

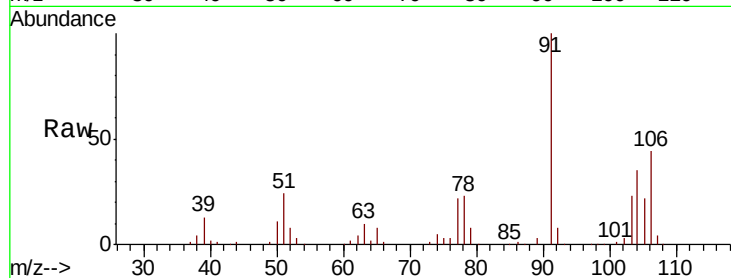
VSTD010202

Tot Ion:106 Resp: 46586

Ion Ratio Lower Upper

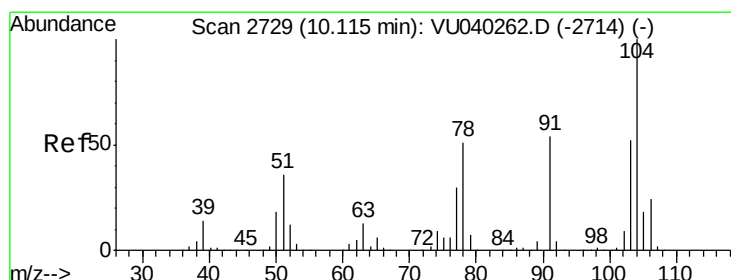
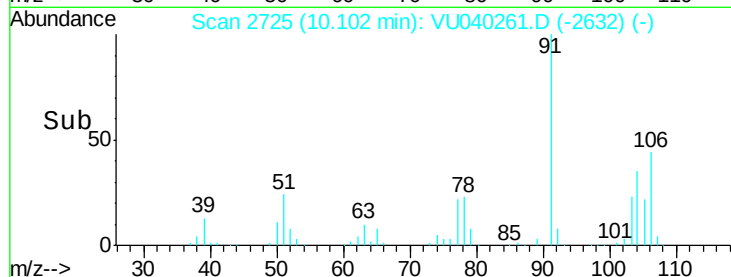
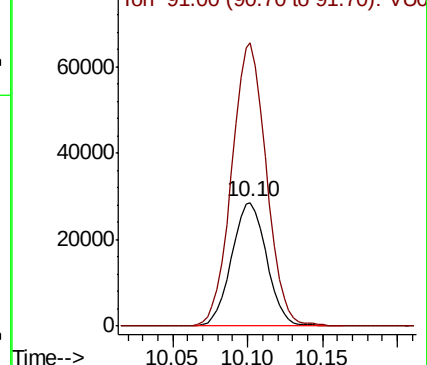
106 100

91 229.3 152.8 283.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 9.095 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU040261.D

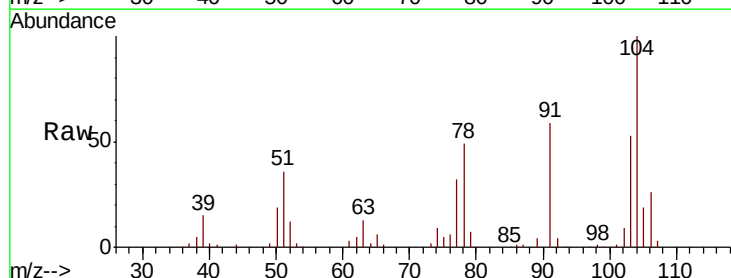
Acq: 24 Sep 2020 09:56

Tgt Ion:104 Resp: 78391

Ion Ratio Lower Upper

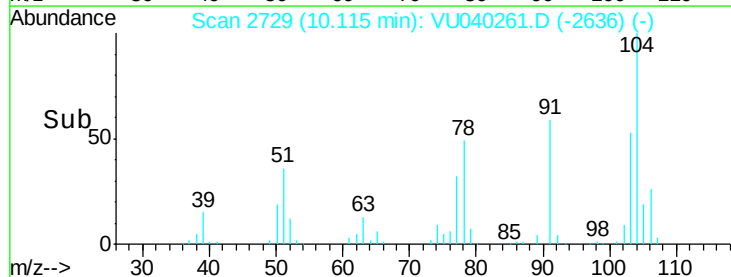
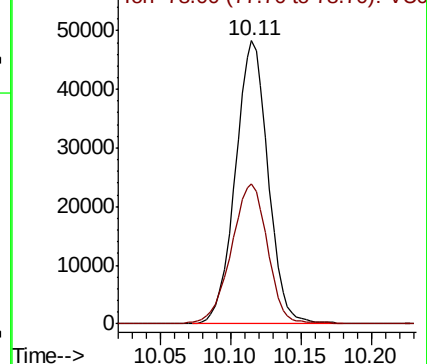
104 100

78 49.3 35.8 66.4

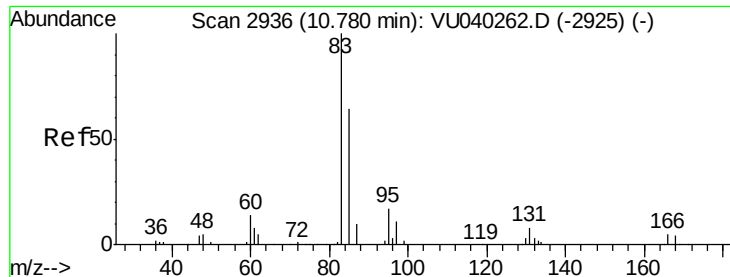


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



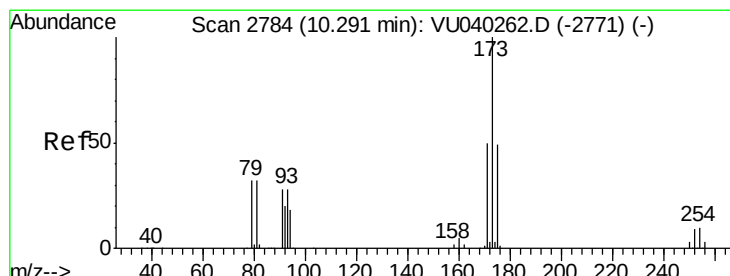
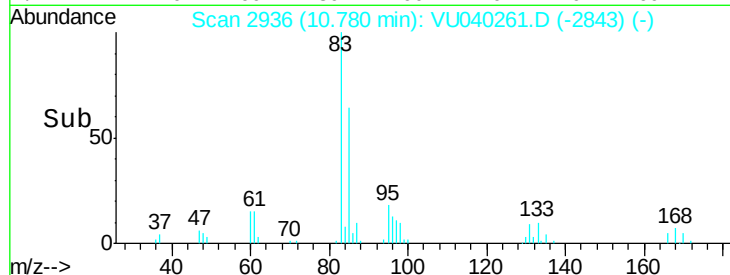
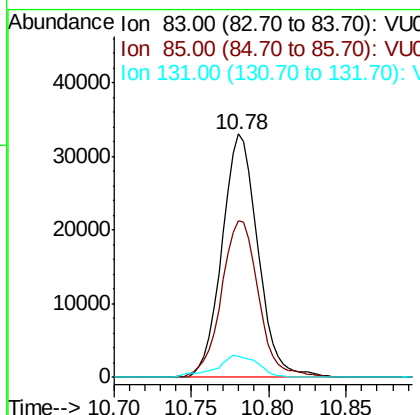
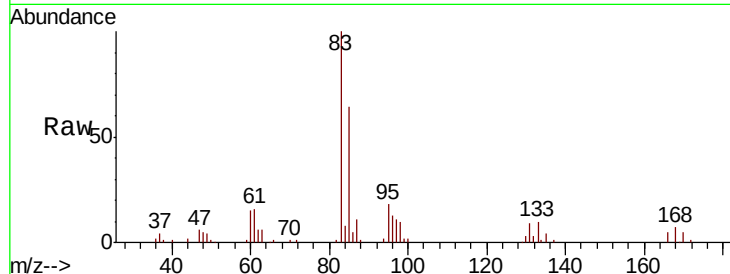




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 10.193 ug/L  
 RT: 10.78 min Scan# 2936  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

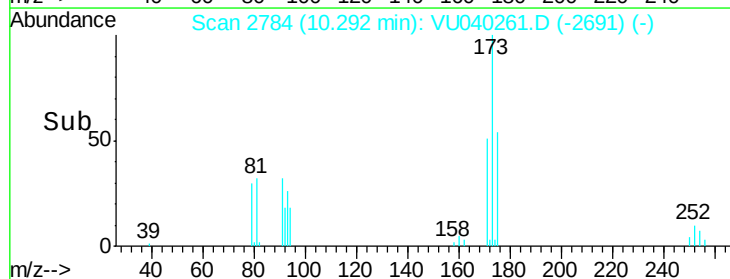
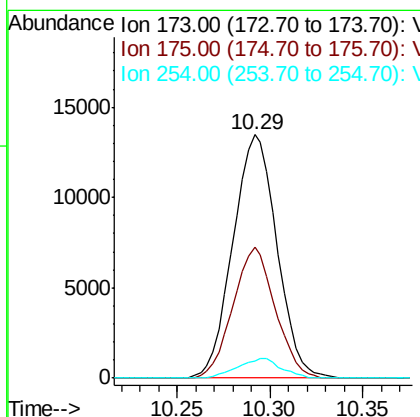
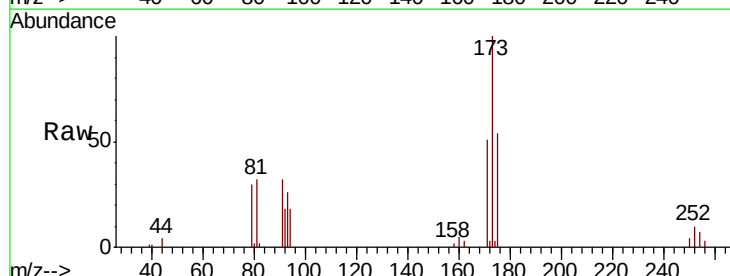
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

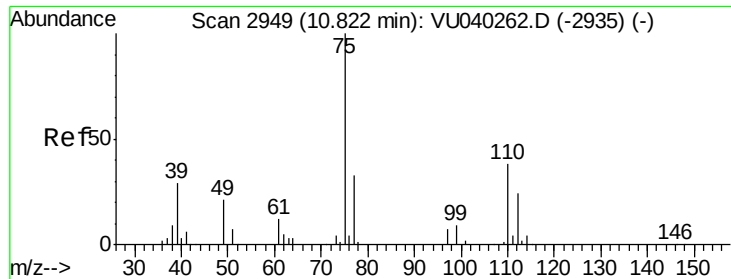
Tot Ion: 83 Resp: 53207  
 Ion Ratio Lower Upper  
 83 100  
 85 64.4 45.6 84.6  
 131 8.8 7.4 11.0



#59  
 Bromoform  
 Concen: 10.542 ug/L  
 RT: 10.29 min Scan# 2784  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

Tgt Ion: 173 Resp: 22169  
 Ion Ratio Lower Upper  
 173 100  
 175 51.4 38.6 58.0  
 254 7.9 7.0 10.4





#60

1,2,3-Trichloropropane

Concen: 10.252 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD010202

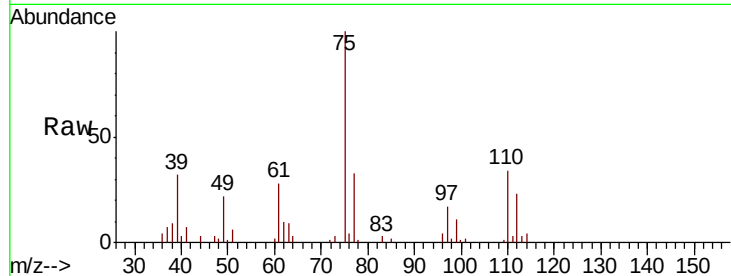
Tot Ion: 75 Resp: 45073

Ion Ratio Lower Upper

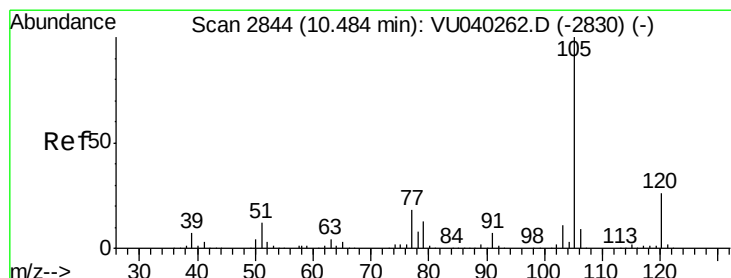
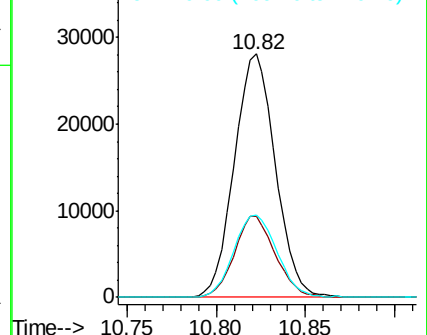
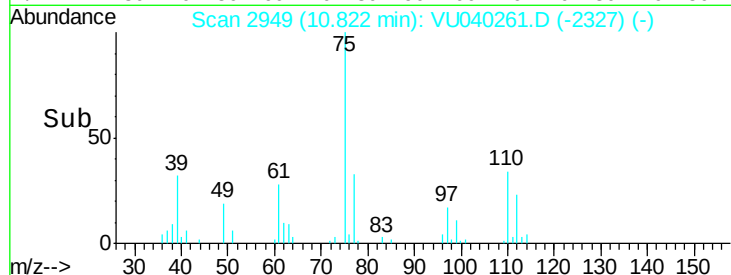
75 100

77 33.1 26.0 39.0

110 35.6 29.8 44.8



Abundance Ion 75.00 (74.70 to 75.70): VU040261.D (-2327) (-)



#61

Isopropylbenzene

Concen: 8.816 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

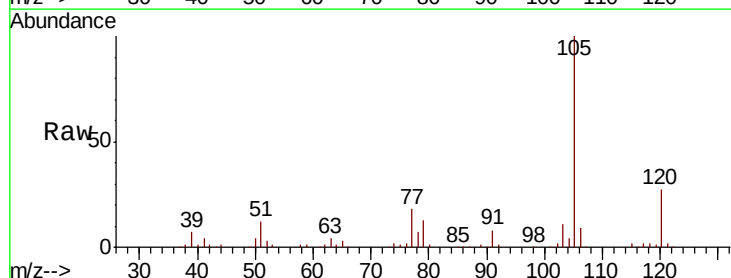
Tgt Ion: 105 Resp: 121797

Ion Ratio Lower Upper

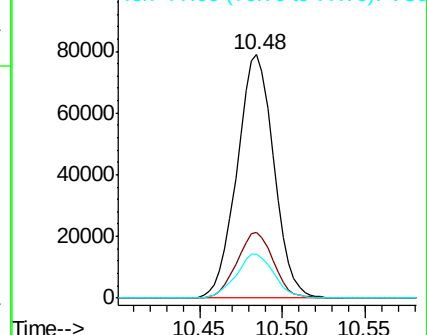
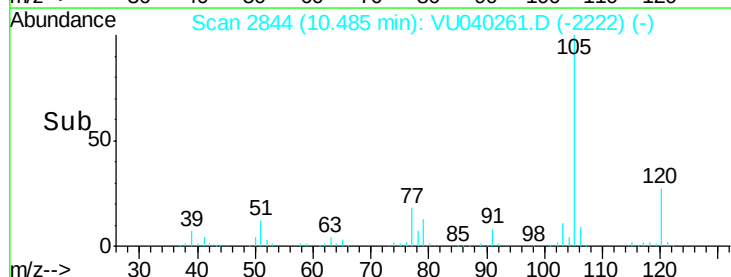
105 100

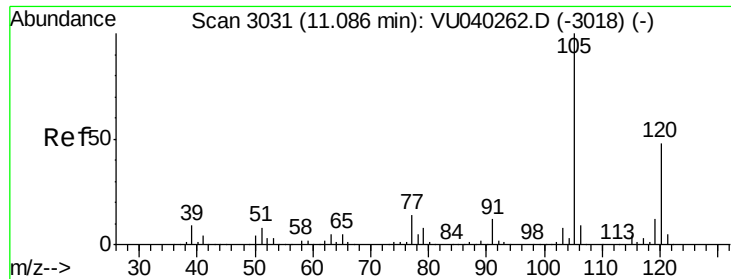
120 26.9 20.6 30.8

77 18.4 13.8 20.6



Abundance Ion 105.00 (104.70 to 105.70): VU040261.D (-2222) (-)





#62

1,3,5-Trimethylbenzene

Concen: 7.921 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

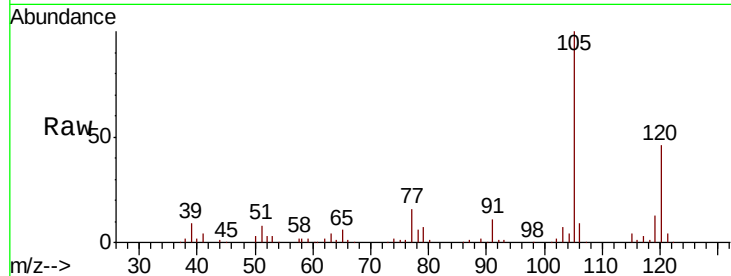
VSTD010202

Tot Ion:105 Resp: 93219

Ion Ratio Lower Upper

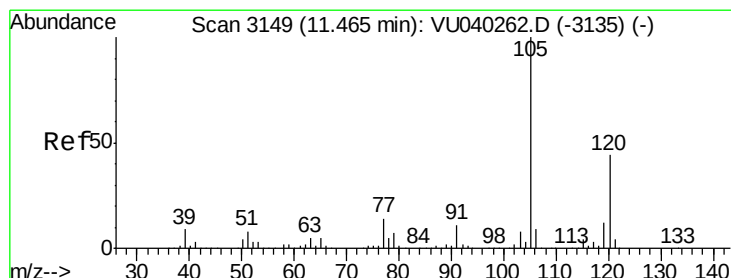
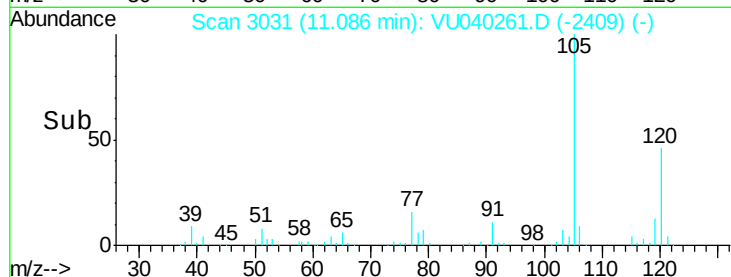
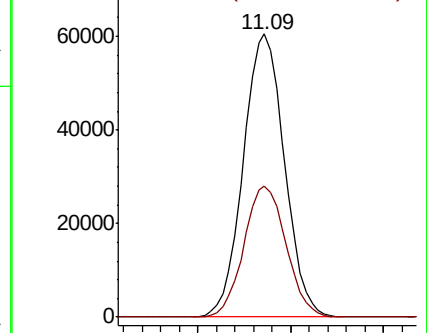
105 100

120 47.3 38.7 58.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 7.875 ug/L

RT: 11.47 min Scan# 3149

Delta R.T. 0.00 min

Lab File: VU040261.D

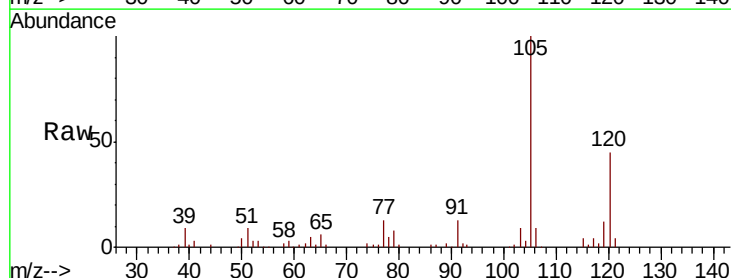
Acq: 24 Sep 2020 09:56

Tgt Ion:105 Resp: 93198

Ion Ratio Lower Upper

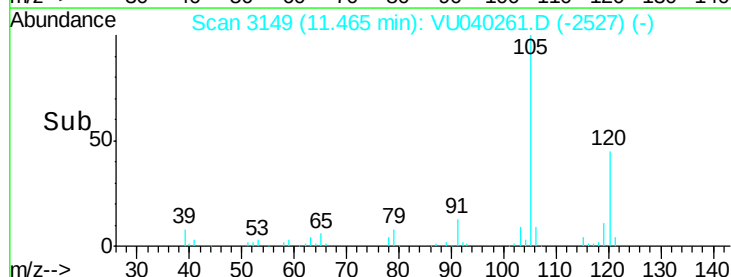
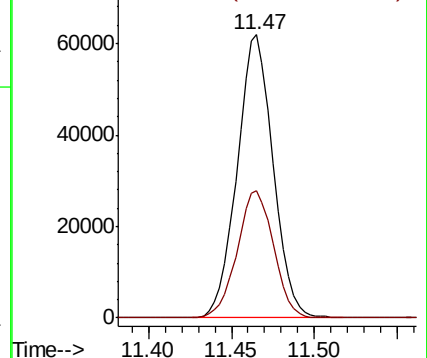
105 100

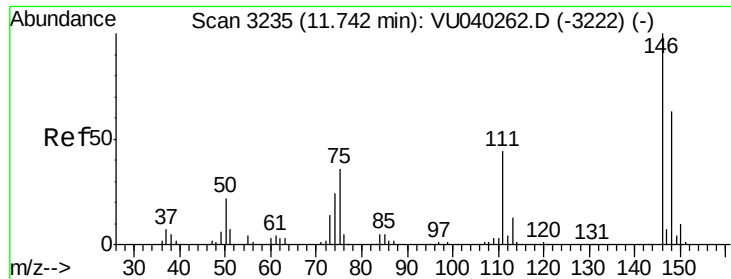
120 45.5 35.8 53.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

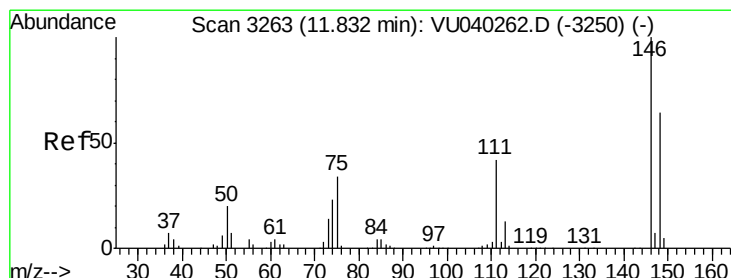
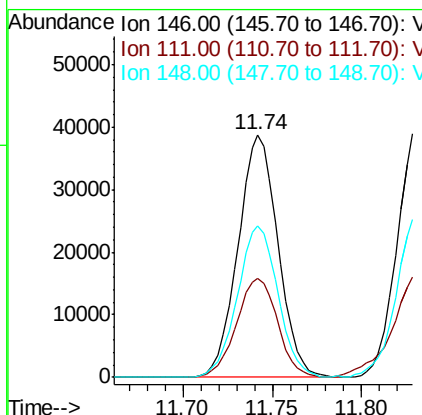
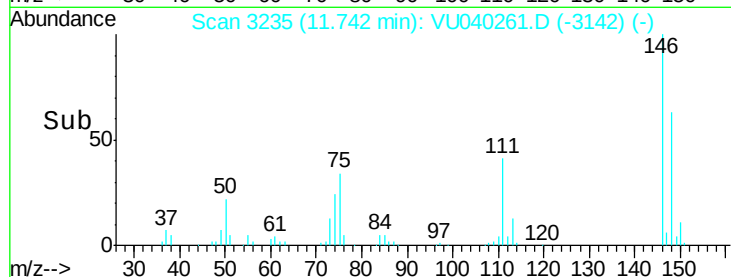
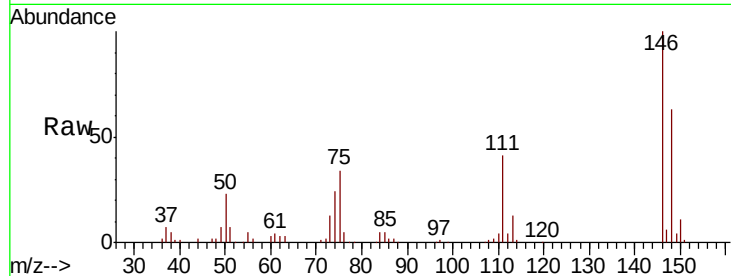




#64  
 1,3-Dichlorobenzene  
 Concen: 10.238 ug/L  
 RT: 11.74 min Scan# 3235  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

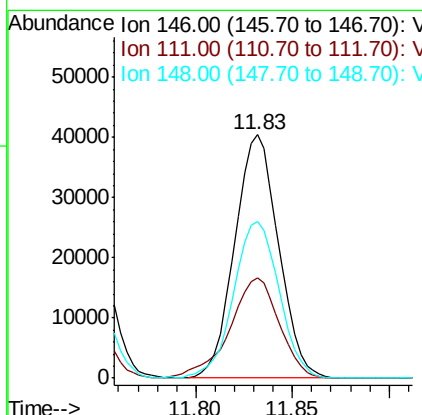
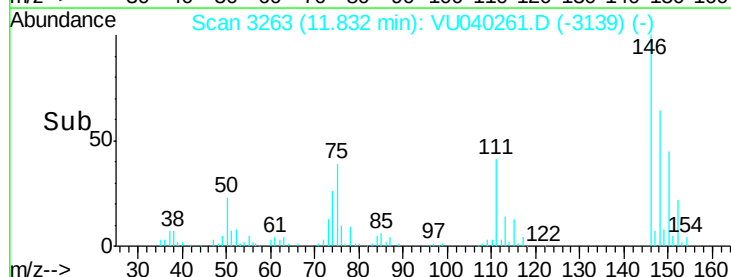
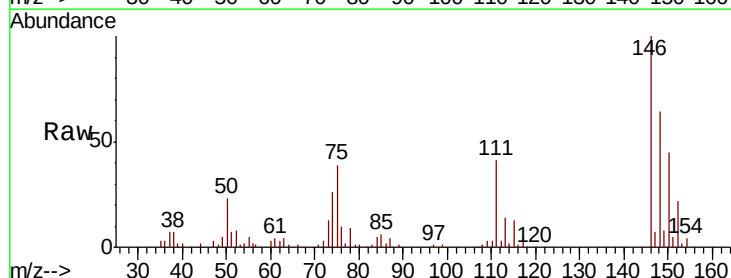
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

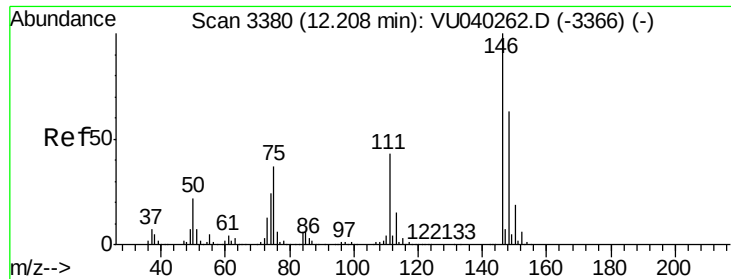
Tot Ion:146 Resp: 60417  
 Ion Ratio Lower Upper  
 146 100  
 111 40.6 30.6 56.8  
 148 62.5 44.4 82.5



#65  
 1,4-Dichlorobenzene  
 Concen: 10.630 ug/L  
 RT: 11.83 min Scan# 3263  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

Tgt Ion:146 Resp: 63634  
 Ion Ratio Lower Upper  
 146 100  
 111 41.2 29.4 54.6  
 148 64.2 44.7 83.1

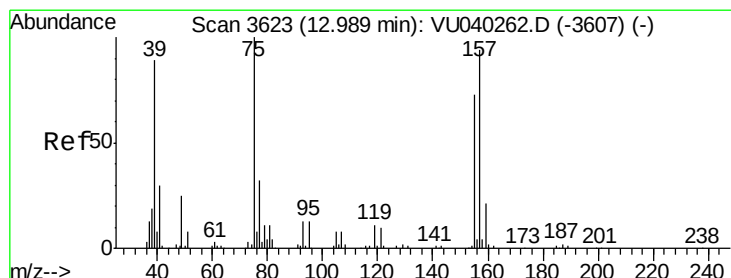
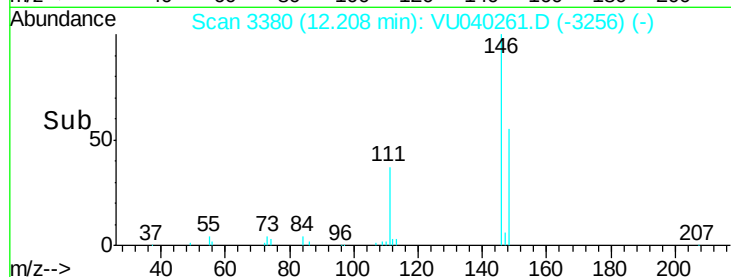
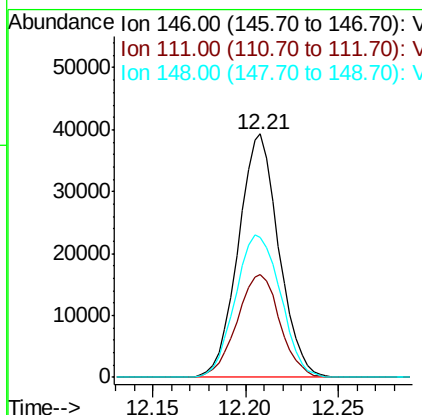
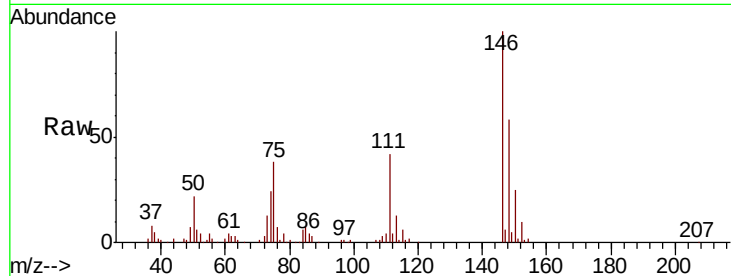




#67  
 1,2-Dichlorobenzene  
 Concen: 10.011 ug/L  
 RT: 12.21 min Scan# 3380  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

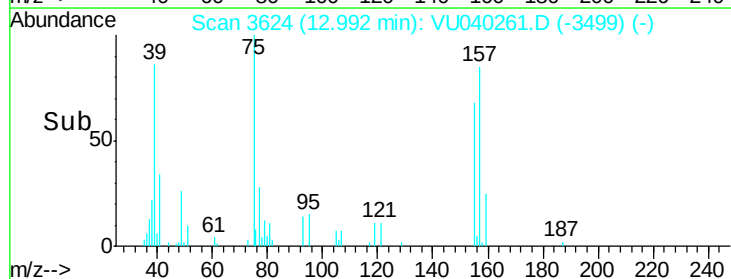
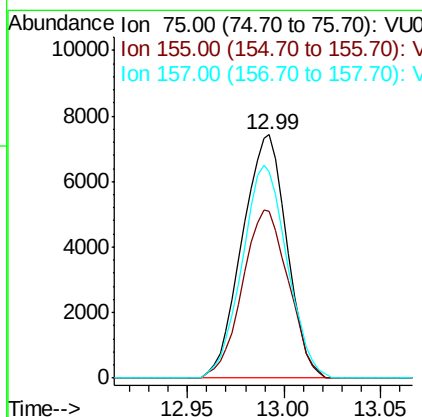
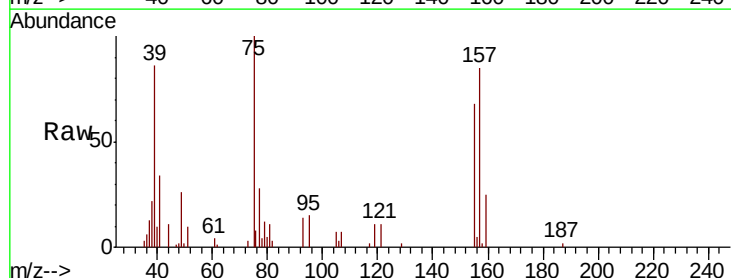
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

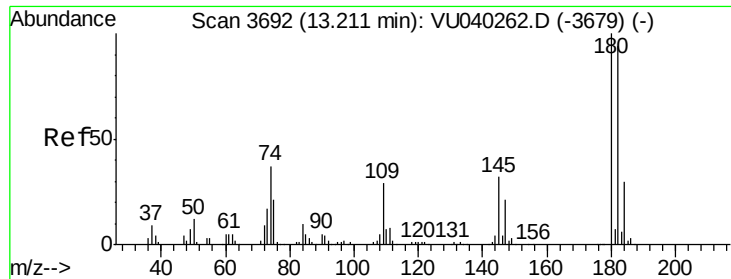
Tot Ion:146 Resp: 59760  
 Ion Ratio Lower Upper  
 146 100  
 111 42.2 34.5 51.7  
 148 57.7 50.5 75.7



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 9.511 ug/L  
 RT: 12.99 min Scan# 3624  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

Tgt Ion: 75 Resp: 11926  
 Ion Ratio Lower Upper  
 75 100  
 155 68.5 58.8 88.2  
 157 84.9 75.1 112.7

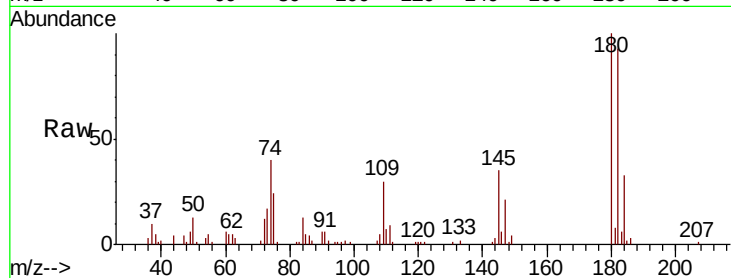




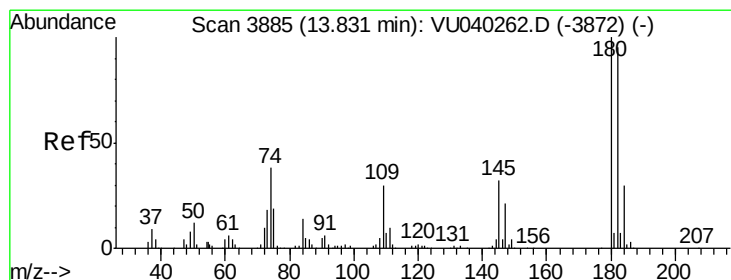
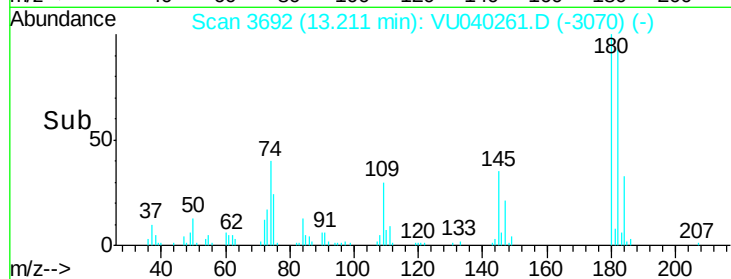
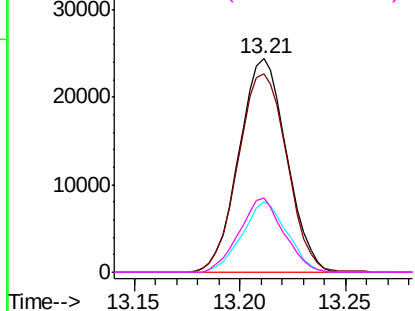
#69  
 1,3,5-Trichlorobenzene  
 Concen: 9.375 ug/L  
 RT: 13.21 min Scan# 3692  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010202

Tot Ion:180 Resp: 38313  
 Ion Ratio Lower Upper  
 180 100  
 182 95.2 75.4 113.0  
 184 31.2 23.7 35.5  
 145 32.3 25.3 37.9

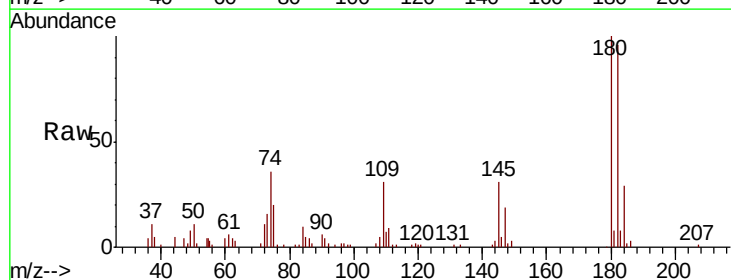


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

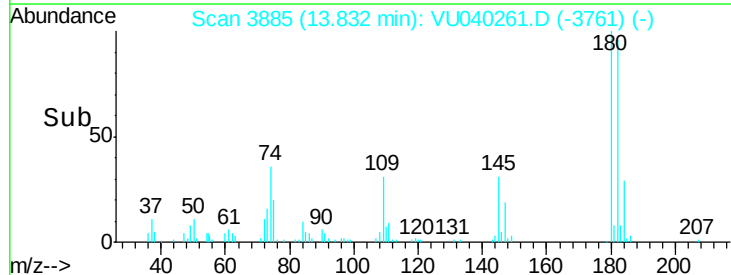
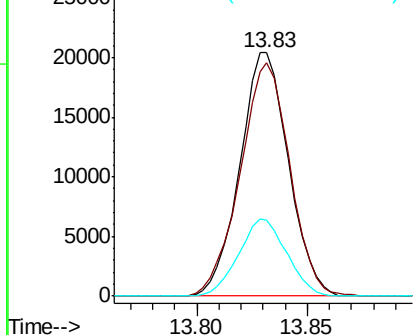


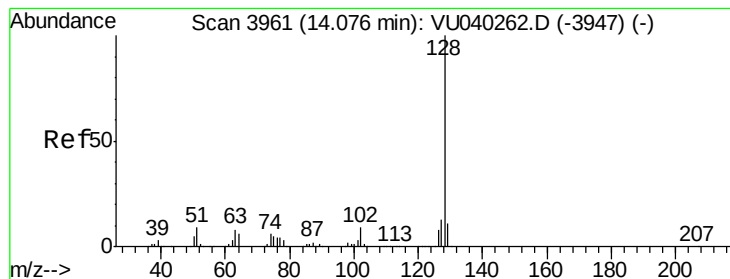
#70  
 1,2,4-trichlorobenzene  
 Concen: 9.131 ug/L  
 RT: 13.83 min Scan# 3885  
 Delta R.T. 0.00 min  
 Lab File: VU040261.D  
 Acq: 24 Sep 2020 09:56

Tgt Ion:180 Resp: 31359  
 Ion Ratio Lower Upper  
 180 100  
 182 97.7 76.3 114.5  
 145 31.1 26.0 39.0



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





#71

Naphthalene

Concen: 7.372 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD010202

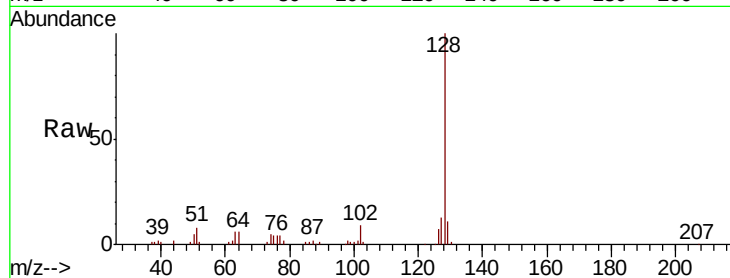
Tot Ion:128 Resp: 87822

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

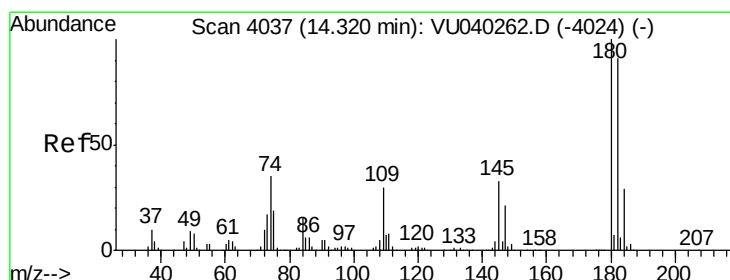
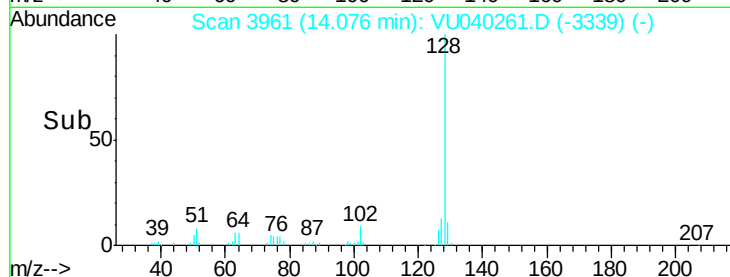
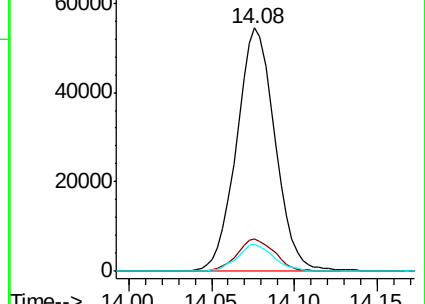
129 10.5 8.8 13.2



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



#72

1,2,3-Trichlorobenzene

Concen: 9.014 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. -0.00 min

Lab File: VU040261.D

Acq: 24 Sep 2020 09:56

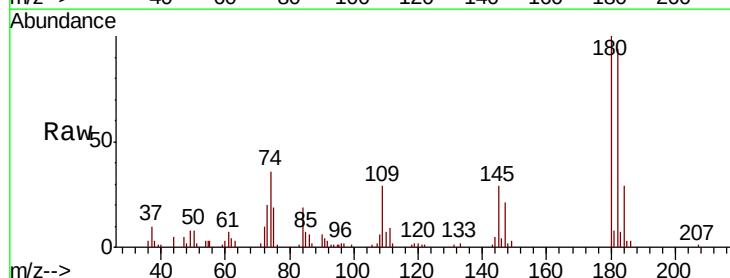
Tgt Ion:180 Resp: 31242

Ion Ratio Lower Upper

180 100

182 96.6 74.2 111.4

145 32.6 27.8 41.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

