

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU112119\  
 Data File : VU035793.D  
 Acq On : 21 Nov 2019 09:50  
 Operator : JC/SP  
 Sample : VSTD0.503  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.503

Quant Time: Nov 21 17:08:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Nov 21 17:06:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 245044   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 270448   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 117202   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 16872 | 0.63 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 15438 | 0.70 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.59  | 63  | 32568 | 0.71 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.71  | 46  | 36611 | 6.17 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.11  | 84  | 28167 | 0.66 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.75  | 65  | 17246 | 0.75 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.77  | 84  | 52146 | 0.59 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.73  | 67  | 17245 | 0.59 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.93  | 98  | 45746 | 0.55 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.21  | 79  | 6806  | 0.59 | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.68  | 63  | 21067 | 4.66 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79 | 84  | 15403 | 0.63 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.22 | 152 | 14775 | 0.63 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 17910 | 0.648 ug/L   | 95     |
| 3) Chloromethane               | 1.53 | 50  | 23769 | 0.730 ug/L   | 99     |
| 5) Vinyl chloride              | 1.62 | 62  | 22992 | 0.694 ug/L   | 94     |
| 6) Bromomethane                | 1.88 | 94  | 11890 | 0.645 ug/L   | 85     |
| 8) Chloroethane                | 1.95 | 64  | 12032 | 0.631 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 25210 | 0.629 ug/L   | 95     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 14985 | 0.640 ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 14552 | 0.650 ug/L   | 94     |
| 13) Acetone                    | 2.68 | 43  | 43476 | 9.733 ug/L   | 93     |
| 14) Carbon disulfide           | 2.82 | 76  | 47526 | 0.653 ug/L # | 90     |
| 15) Methyl Acetate             | 3.00 | 43  | 6781  | 0.671 ug/L # | 88     |
| 16) Methylene chloride         | 3.08 | 84  | 18741 | 0.706 ug/L   | 99     |
| 17) Methyl tert-butyl Ether    | 3.42 | 73  | 32255 | 0.610 ug/L # | 94     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 13359 | 0.585 ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 31257 | 0.706 ug/L   | 98     |
| 21) 2-Butanone                 | 4.79 | 43  | 43627 | 6.811 ug/L   | 93     |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96  | 13882 | 0.550 ug/L   | 96     |
| 23) Bromochloromethane         | 5.02 | 128 | 6387  | 0.540 ug/L   | 89     |
| 25) Chloroform                 | 5.14 | 83  | 30117 | 0.634 ug/L   | 92     |
| 27) 1,2-Dichloroethane         | 5.84 | 62  | 19758 | 0.728 ug/L # | 94     |
| 29) 1,1,1-Trichloroethane      | 5.36 | 97  | 23265 | 0.627 ug/L   | 96     |
| 30) Cyclohexane                | 5.43 | 56  | 20029 | 0.540 ug/L   | 99     |
| 31) Carbon tetrachloride       | 5.56 | 117 | 20684 | 0.625 ug/L   | 100    |
| 33) Benzene                    | 5.82 | 78  | 58225 | 0.586 ug/L   | 100    |
| 34) Trichloroethene            | 6.58 | 95  | 14199 | 0.566 ug/L   | 92     |
| 35) Methylcyclohexane          | 6.80 | 83  | 19272 | 0.513 ug/L   | 98     |
| 37) 1,2-Dichloropropane        | 6.83 | 63  | 17056 | 0.643 ug/L   | 100    |
| 38) Bromodichloromethane       | 7.14 | 83  | 20284 | 0.633 ug/L   | 97     |
| 39) cis-1,3-Dichloropropene    | 7.65 | 75  | 19741 | 0.531 ug/L   | 98     |
| 40) 4-Methyl-2-pentanone       | 7.84 | 43  | 98394 | 6.351 ug/L   | 97     |

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 Operator : JC/SP  
 Sample : VSTD0.503  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

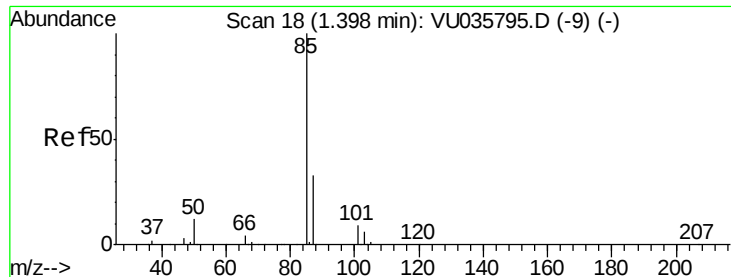
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.503

Quant Time: Nov 21 17:08:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Nov 21 17:06:12 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 42) Toluene                    | 8.00  | 91   | 57847    | 0.556 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene  | 8.25  | 75   | 16389    | 0.548 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 11090    | 0.597 | ug/L   | 93       |
| 47) Tetrachloroethene          | 8.58  | 164  | 11086    | 0.525 | ug/L   | 96       |
| 48) 2-Hexanone                 | 8.74  | 43   | 70802    | 6.358 | ug/L   | 98       |
| 49) Dibromochloromethane       | 8.84  | 129  | 12614    | 0.555 | ug/L   | 94       |
| 50) 1,2-Dibromoethane          | 8.96  | 107  | 9793     | 0.559 | ug/L   | 96       |
| 51) Chlorobenzene              | 9.48  | 112  | 40183    | 0.602 | ug/L   | 96       |
| 52) Ethylbenzene               | 9.60  | 91   | 58323    | 0.538 | ug/L   | 95       |
| 53) m,p-Xylene                 | 9.72  | 106  | 19224    | 0.474 | ug/L   | 96       |
| 54) o-Xylene                   | 10.13 | 106  | 18069    | 0.462 | ug/L   | 86       |
| 55) Styrene                    | 10.15 | 104  | 28337    | 0.434 | ug/L   | 91       |
| 56) Isopropylbenzene           | 10.51 | 105  | 47690    | 0.460 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 15739    | 0.643 | ug/L   | 94       |
| 59) 1,2,3-Trichloropropane     | 10.85 | 75   | 11199    | 0.642 | ug/L   | 96       |
| 61) Bromoform                  | 10.32 | 173  | 7113     | 0.664 | ug/L # | 96       |
| 62) 1,3-Dichlorobenzene        | 11.77 | 146  | 24117    | 0.605 | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 11.87 | 146  | 24492    | 0.637 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 12.24 | 146  | 23885    | 0.640 | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 13.03 | 75   | 2197     | 0.886 | ug/L   | 86       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 14145    | 0.558 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.87 | 180  | 7753     | 0.509 | ug/L   | 92       |
| 69) Naphthalene                | 14.11 | 128  | 10845    | 0.572 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 7434     | 0.505 | ug/L   | 91       |
| -----                          |       |      |          |       |        |          |

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





#2

Dichlorodifluoromethane

Concen: 0.648 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

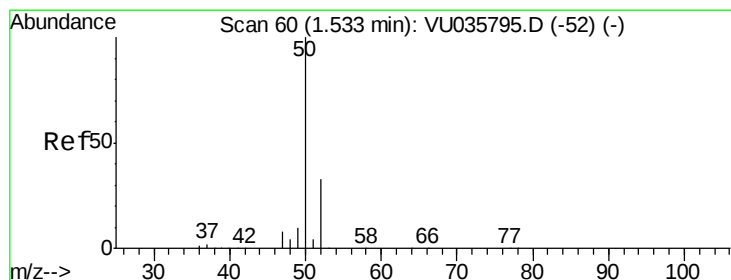
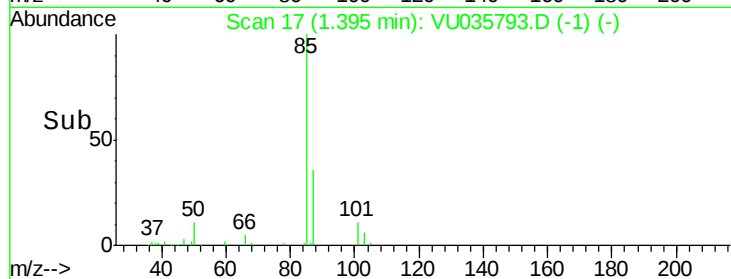
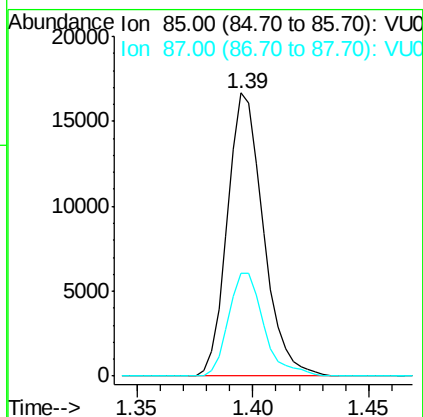
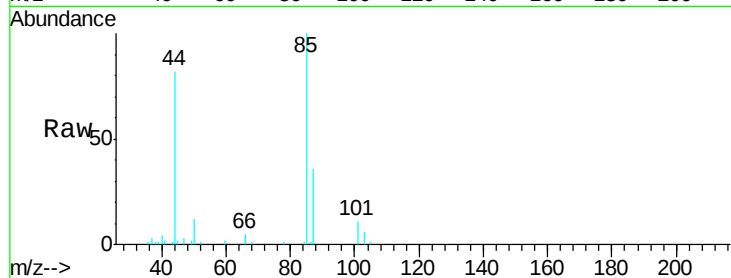
VSTD0.503

Tgt Ion: 85 Resp: 17910

Ion Ratio Lower Upper

85 100

87 35.7 26.2 39.2



#3

Chloromethane

Concen: 0.730 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU035793.D

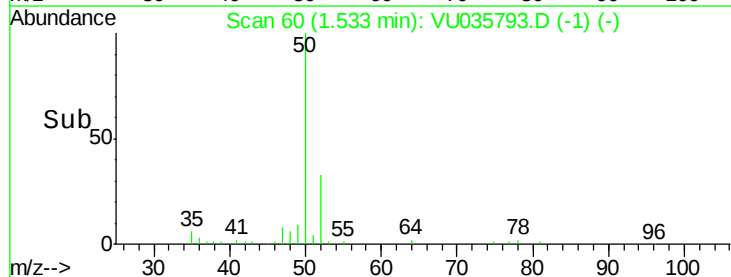
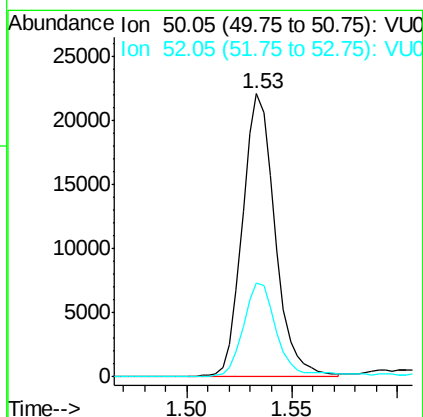
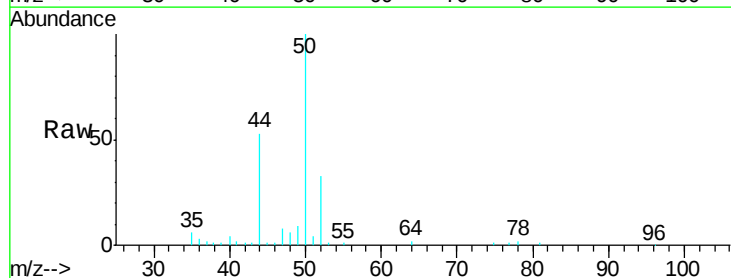
Acq: 21 Nov 2019 09:50

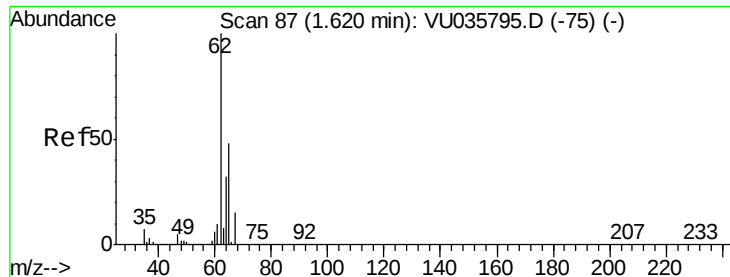
Tgt Ion: 50 Resp: 23769

Ion Ratio Lower Upper

50 100

52 33.3 22.7 42.3





#5

Vinyl chloride

Concen: 0.694 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

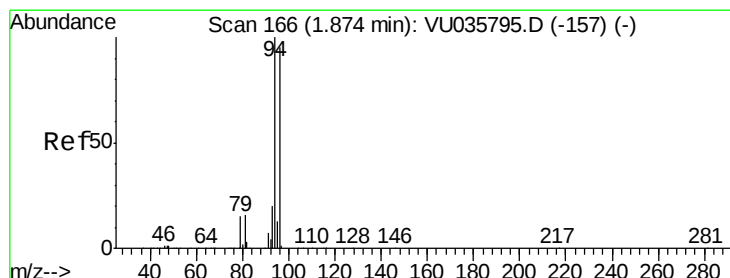
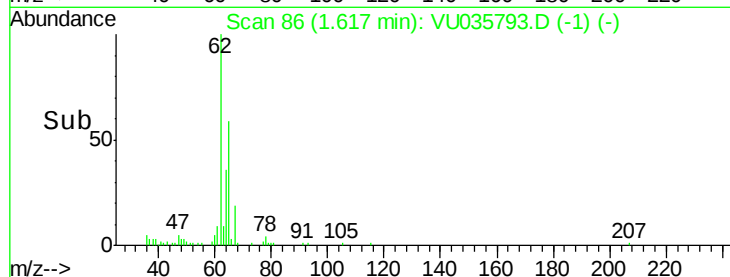
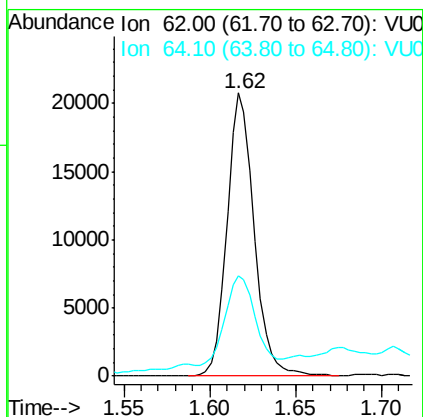
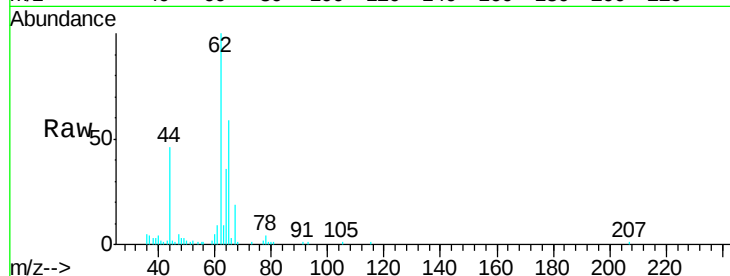
VSTD0.503

Tgt Ion: 62 Resp: 22992

Ion Ratio Lower Upper

62 100

64 35.6 22.5 41.9



#6

Bromomethane

Concen: 0.645 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035793.D

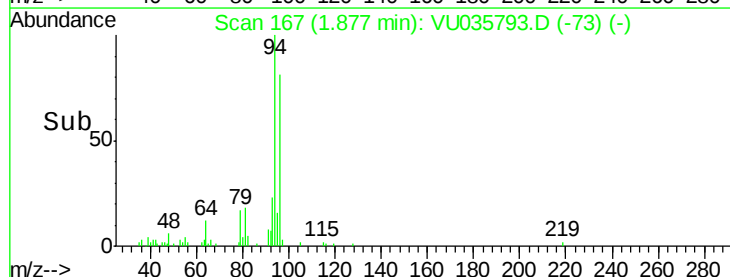
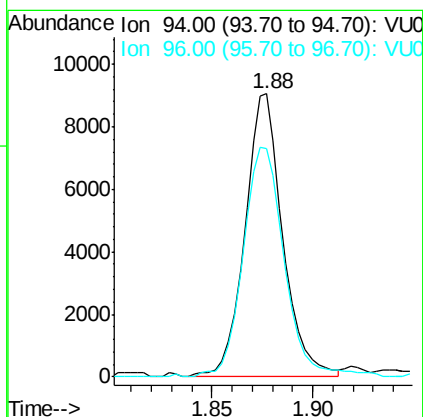
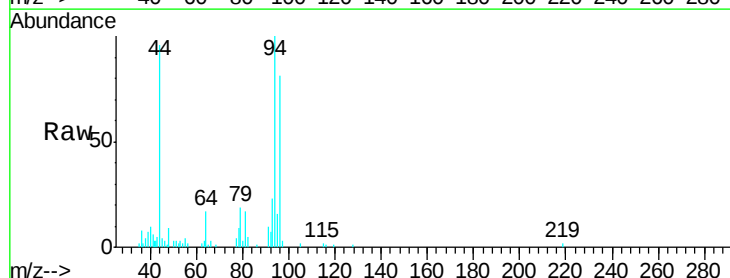
Acq: 21 Nov 2019 09:50

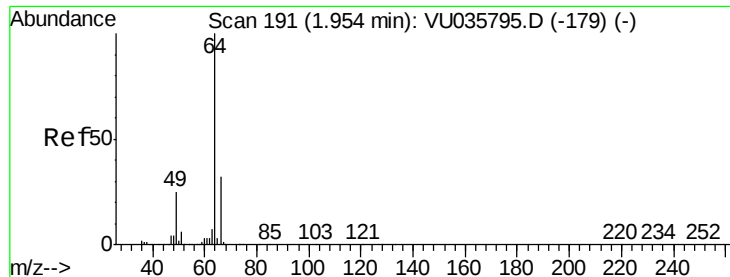
Tgt Ion: 94 Resp: 11890

Ion Ratio Lower Upper

94 100

96 80.8 66.5 123.5





#8

Chloroethane

Concen: 0.631 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

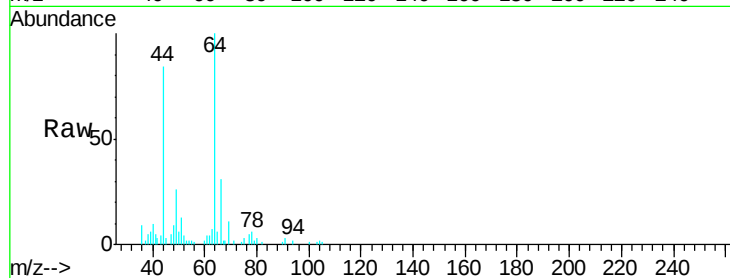
VSTD0.503

Tgt Ion: 64 Resp: 12032

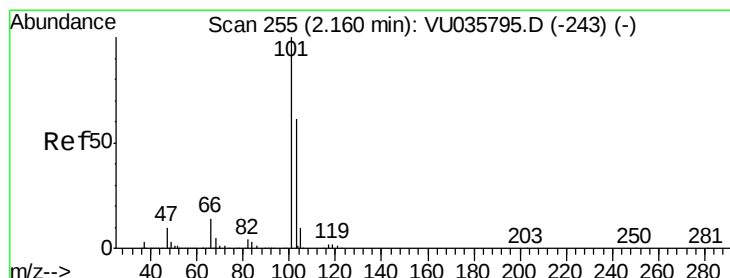
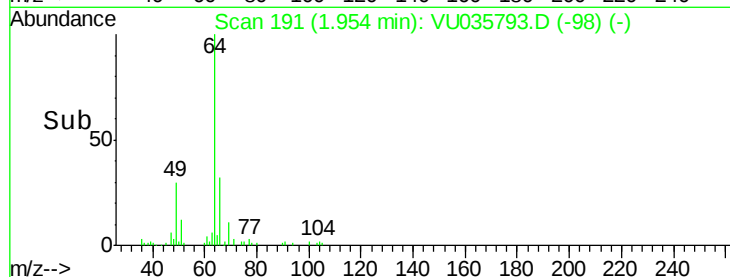
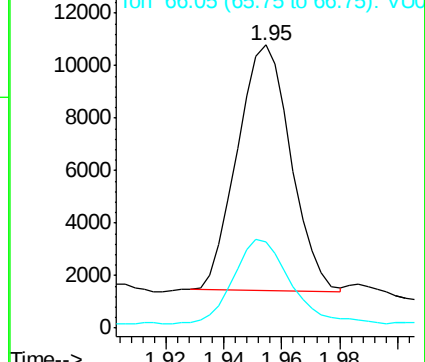
Ion Ratio Lower Upper

64 100

66 30.6 22.3 41.5



Abundance Ion 64.10 (63.80 to 64.80): VU035795.D (-179) (-)



#9

Trichlorofluoromethane

Concen: 0.629 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU035793.D

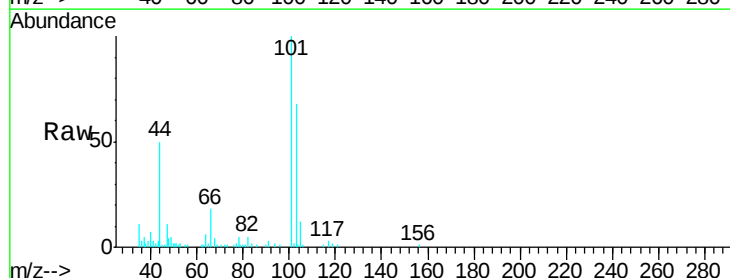
Acq: 21 Nov 2019 09:50

Tgt Ion: 101 Resp: 25210

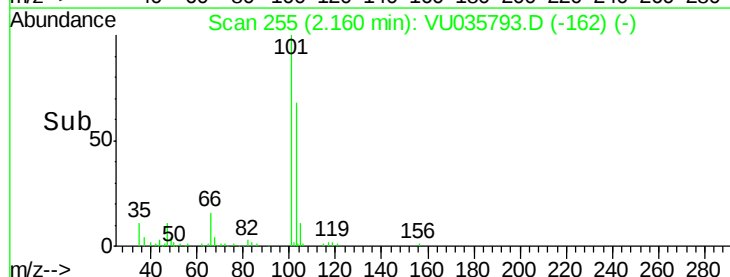
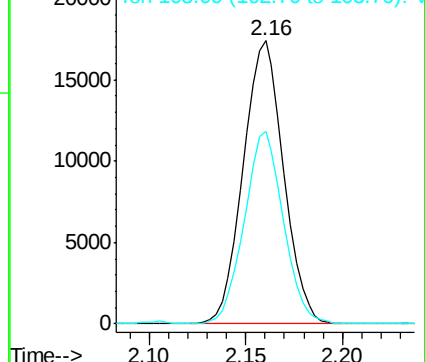
Ion Ratio Lower Upper

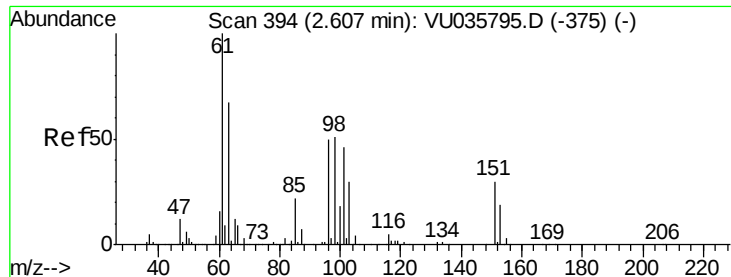
101 100

103 66.1 49.8 74.6



Abundance Ion 101.00 (100.70 to 101.70): VU035795.D (-243) (-)





#10

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

Concen: 0.640 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.503

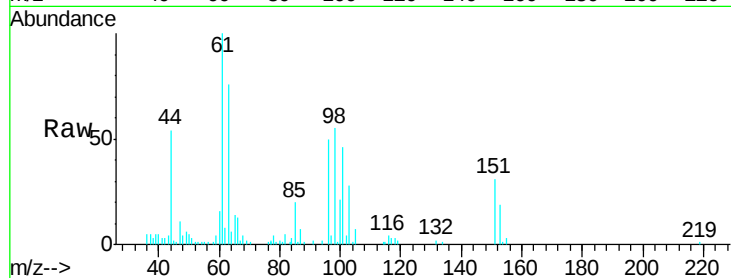
Tgt Ion:101 Resp: 14985

Ion Ratio Lower Upper

101 100

85 47.1 38.1 57.1

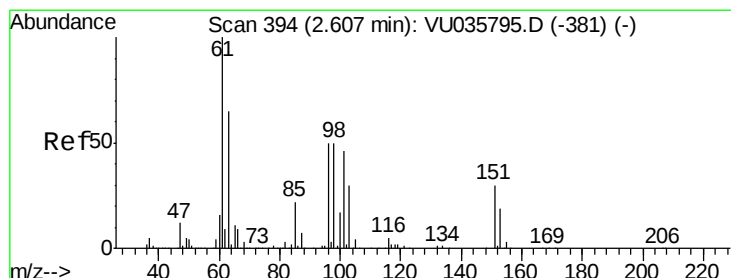
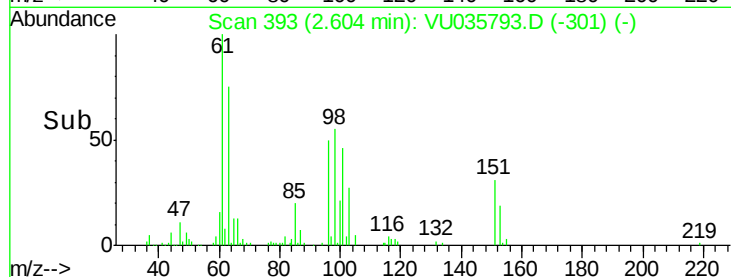
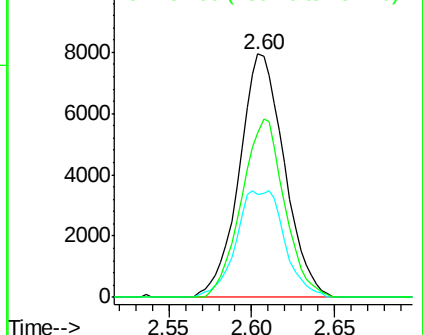
151 69.9 52.0 78.0



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: 0.650 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

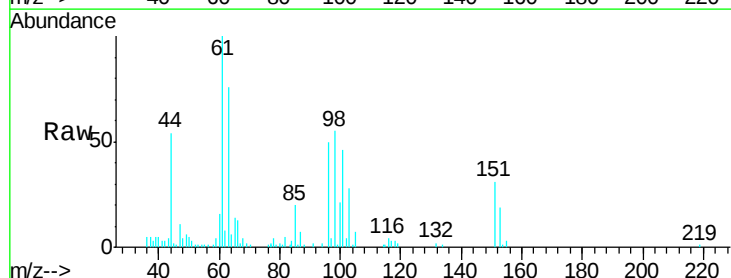
Tgt Ion: 96 Resp: 14552

Ion Ratio Lower Upper

96 100

61 200.1 139.3 258.7

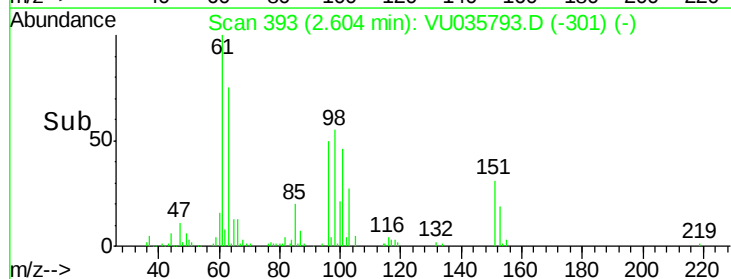
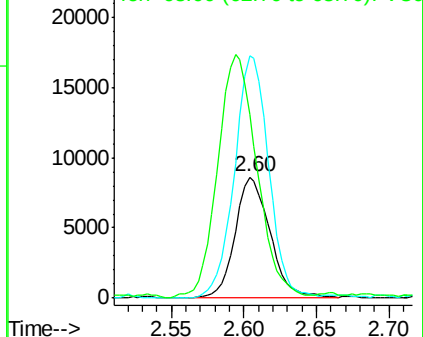
63 151.2 93.7 174.1

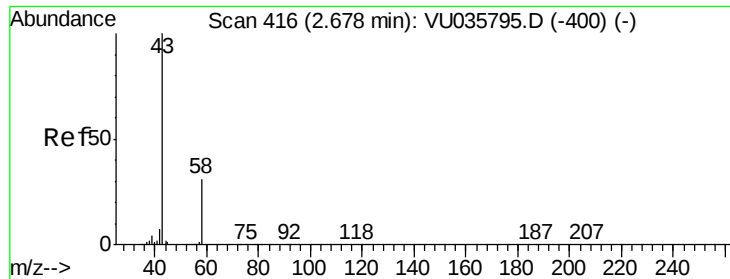


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 9.733 ug/L

RT: 2.68 min Scan# 417

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

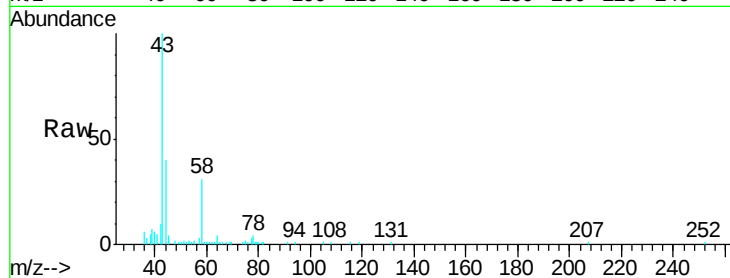
VSTD0.503

Tgt Ion: 43 Resp: 43476

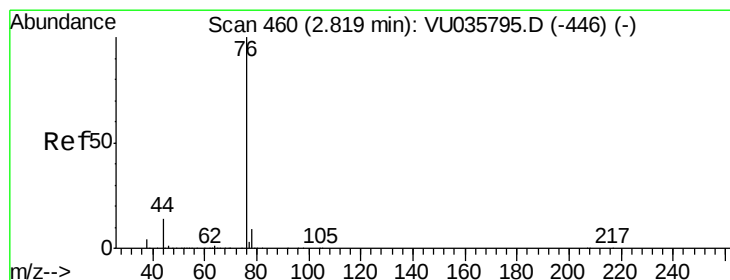
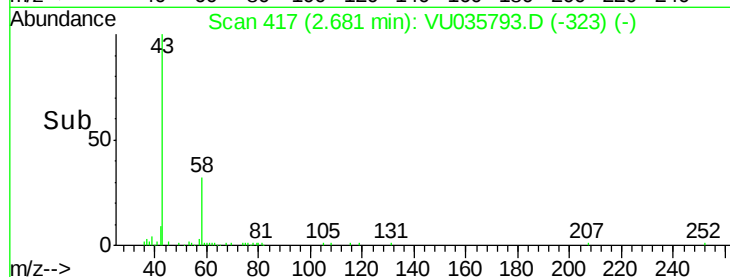
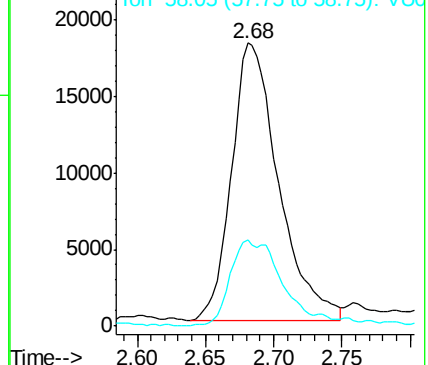
Ion Ratio Lower Upper

43 100

58 34.4 0.0 61.2



Abundance Ion 43.05 (42.75 to 43.75): VU035793.D (-323) (-)



#14

Carbon disulfide

Concen: 0.653 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU035793.D

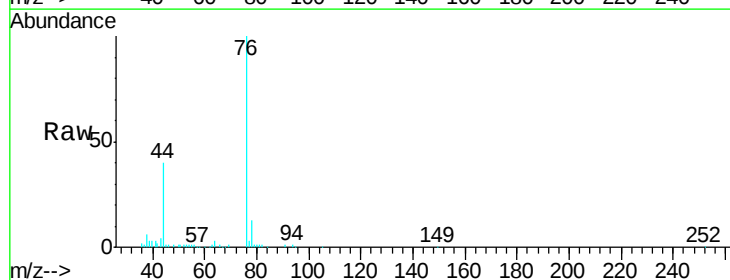
Acq: 21 Nov 2019 09:50

Tgt Ion: 76 Resp: 47526

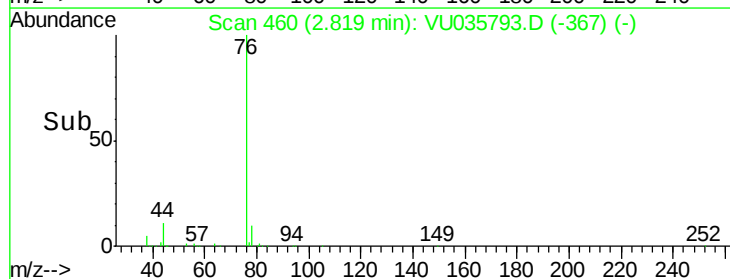
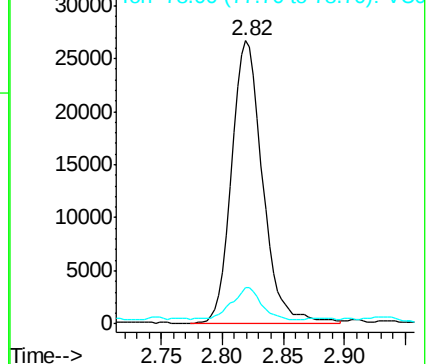
Ion Ratio Lower Upper

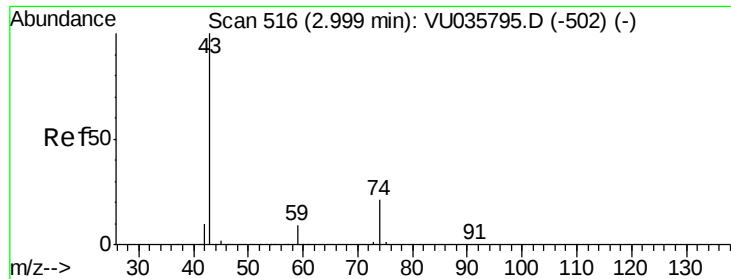
76 100

78 12.7 7.3 10.9#



Abundance Ion 76.05 (75.75 to 76.75): VU035793.D (-367) (-)





#15

Methyl Acetate

Concen: 0.671 ug/L

RT: 3.00 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

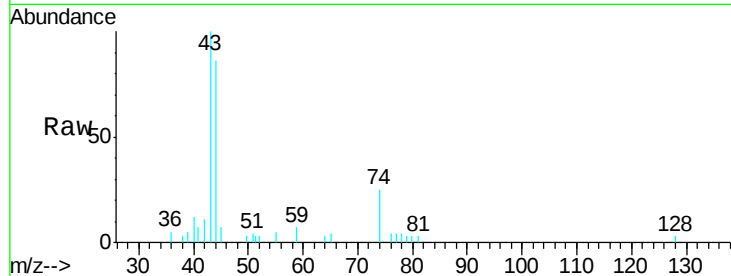
VSTD0.503

Tgt Ion: 43 Resp: 6781

Ion Ratio Lower Upper

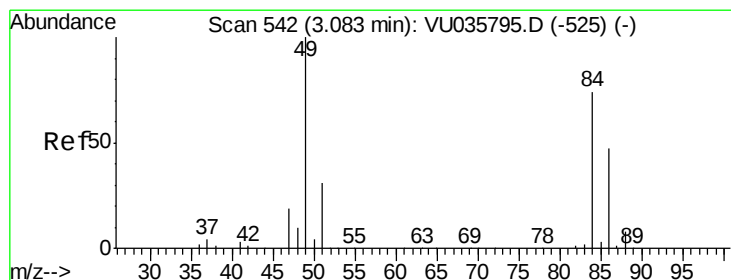
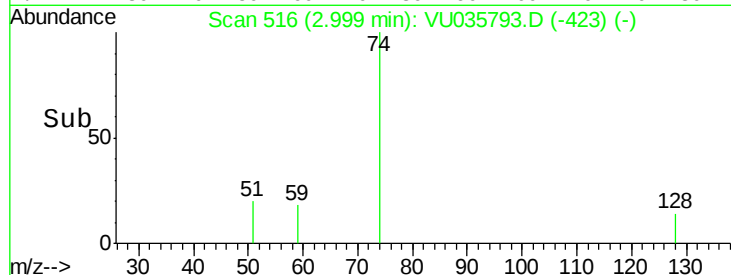
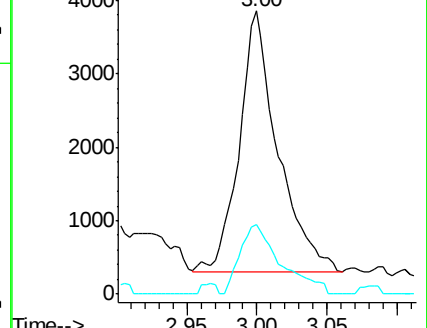
43 100

74 28.4 18.2 27.4#



Abundance Ion 43.05 (42.75 to 43.75): VU035795.D (-502) (-)

Ion 74.05 (73.75 to 74.75): VU035795.D (-502) (-)



#16

Methylene chloride

Concen: 0.706 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

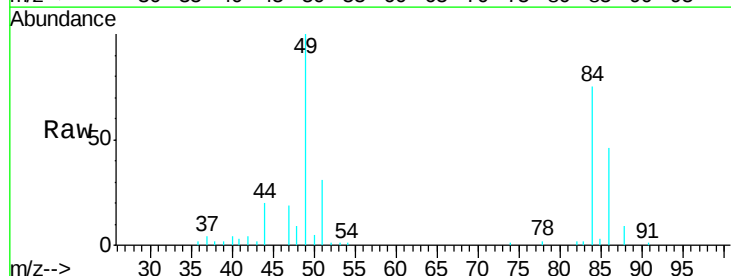
Tgt Ion: 84 Resp: 18741

Ion Ratio Lower Upper

84 100

86 61.8 44.4 82.5

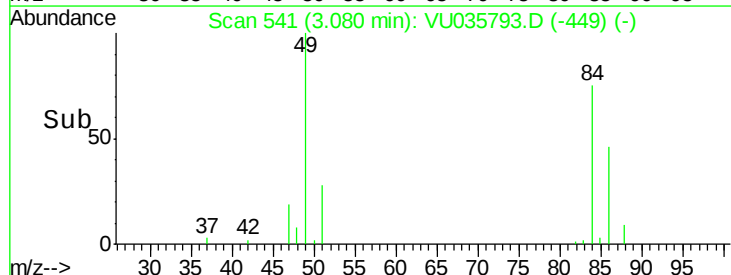
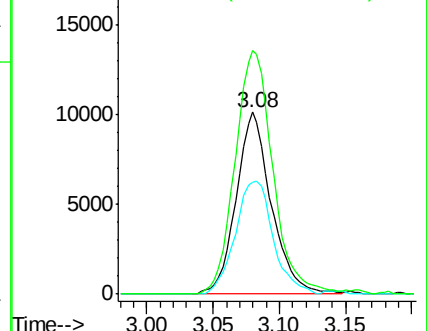
49 134.1 94.0 174.6

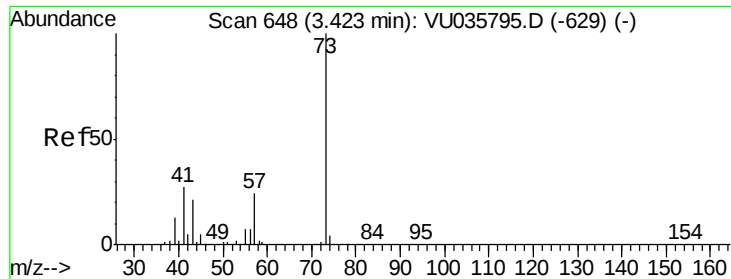


Abundance Ion 84.05 (83.75 to 84.75): VU035795.D (-525) (-)

Ion 86.00 (85.70 to 86.70): VU035795.D (-525) (-)

Ion 49.10 (48.80 to 49.80): VU035795.D (-525) (-)





#17

Methyl tert-butyl Ether

Concen: 0.610 ug/L

RT: 3.42 min Scan# 647

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.503

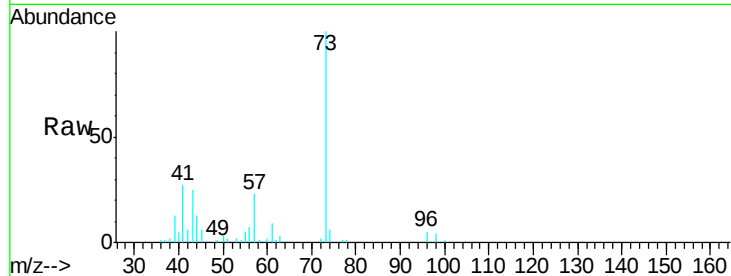
Tgt Ion: 73 Resp: 32255

Ion Ratio Lower Upper

73 100

43 27.0 17.4 26.2#

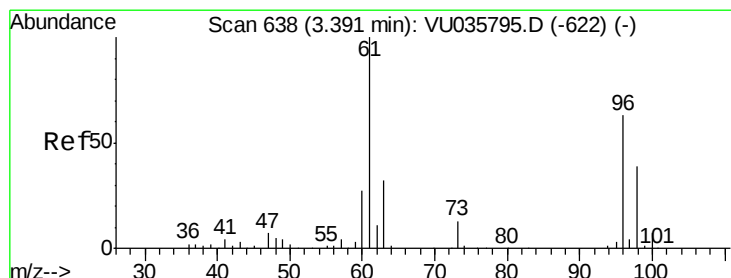
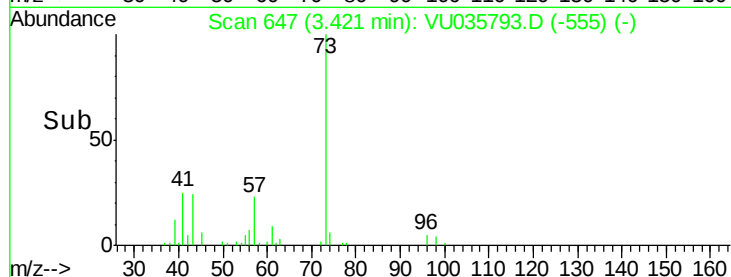
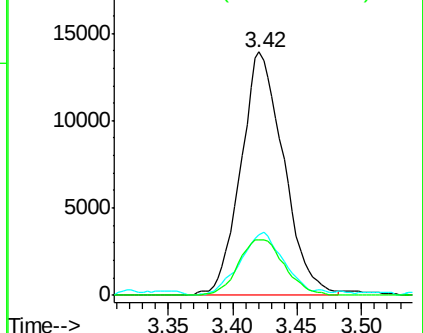
57 24.7 19.4 29.0



Abundance Ion 73.10 (72.80 to 73.80): VU035793.D (-545) (-)

Ion 43.05 (42.75 to 43.75): VU035793.D (-545) (-)

Ion 57.10 (56.80 to 57.80): VU035793.D (-545) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.585 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

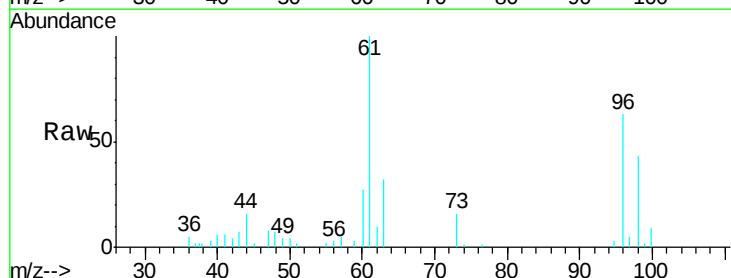
Tgt Ion: 96 Resp: 13359

Ion Ratio Lower Upper

96 100

61 158.2 111.1 206.3

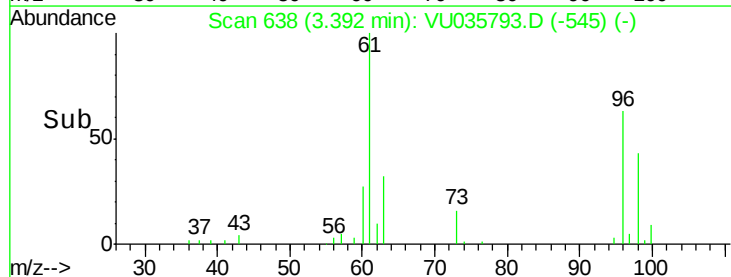
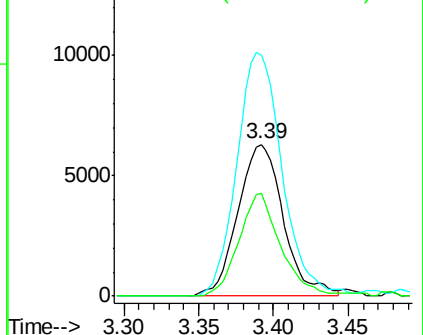
98 67.3 43.1 80.1

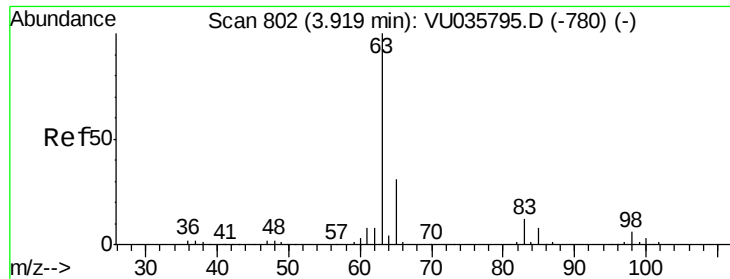


Abundance Ion 96.00 (95.70 to 96.70): VU035793.D (-545) (-)

Ion 61.05 (60.75 to 61.75): VU035793.D (-545) (-)

Ion 97.95 (97.65 to 98.65): VU035793.D (-545) (-)





#19

1,1-Dichloroethane

Concen: 0.706 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.503

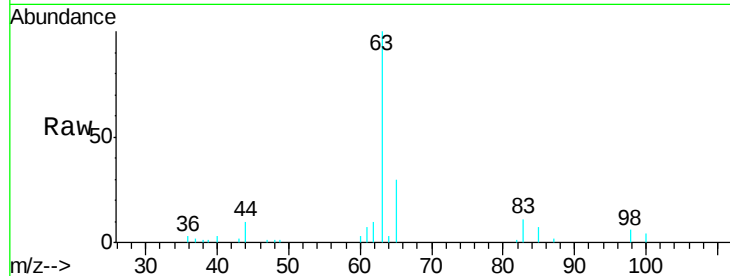
Tgt Ion: 63 Resp: 31257

Ion Ratio Lower Upper

63 100

65 30.3 21.8 40.4

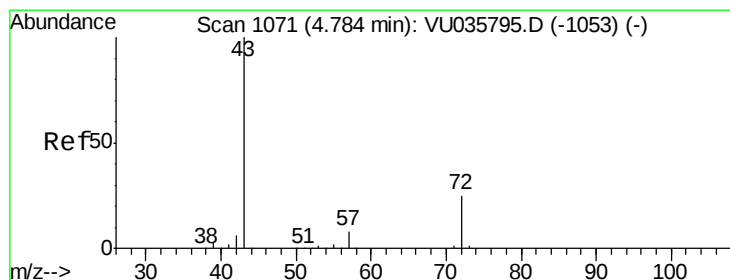
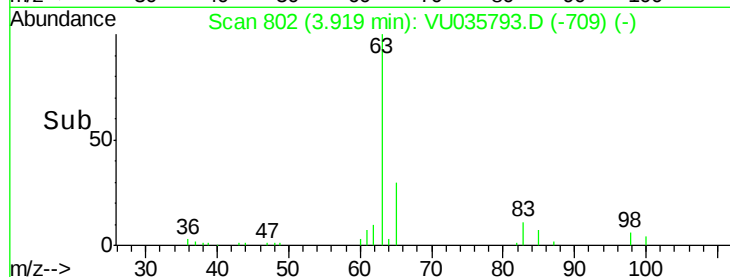
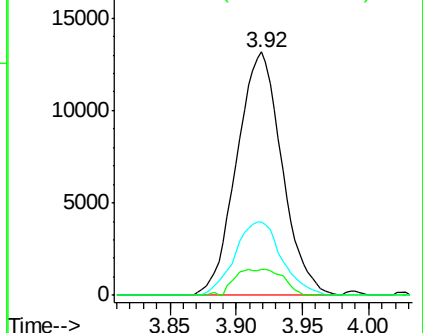
83 10.6 8.6 16.0



Abundance Ion 63.10 (62.80 to 63.80): VU035795.D (-780) (-)

Ion 65.10 (64.80 to 65.80): VU035795.D (-780) (-)

Ion 83.05 (82.75 to 83.75): VU035795.D (-780) (-)



#21

2-Butanone

Concen: 6.811 ug/L

RT: 4.79 min Scan# 1073

Delta R.T. 0.01 min

Lab File: VU035793.D

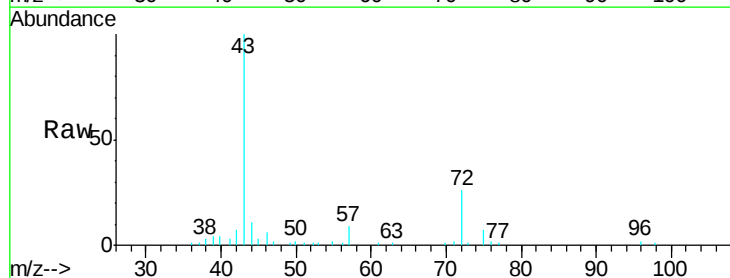
Acq: 21 Nov 2019 09:50

Tgt Ion: 43 Resp: 43627

Ion Ratio Lower Upper

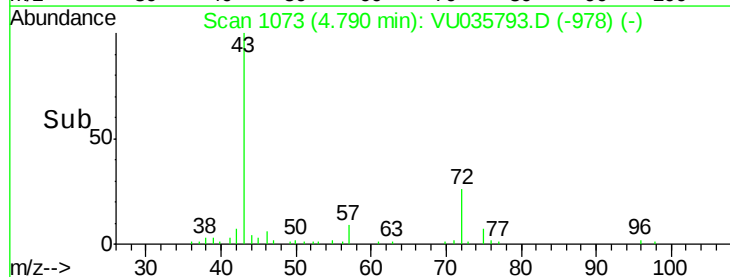
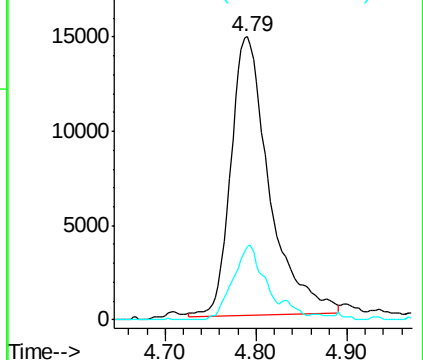
43 100

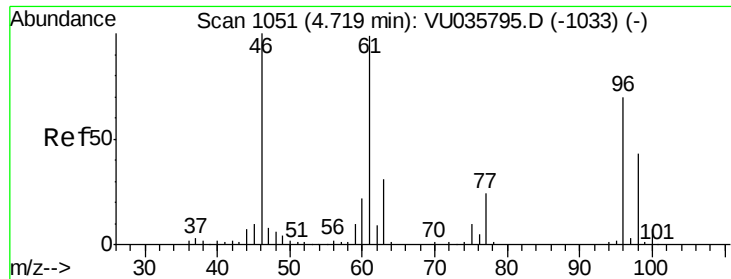
72 21.4 12.4 37.4



Abundance Ion 43.05 (42.75 to 43.75): VU035795.D (-1053) (-)

Ion 72.10 (71.80 to 72.80): VU035795.D (-1053) (-)





#22

cis-1,2-Dichloroethene

Concen: 0.550 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.503

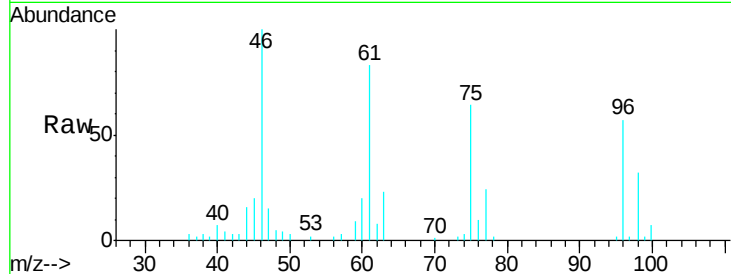
Tgt Ion: 96 Resp: 13882

Ion Ratio Lower Upper

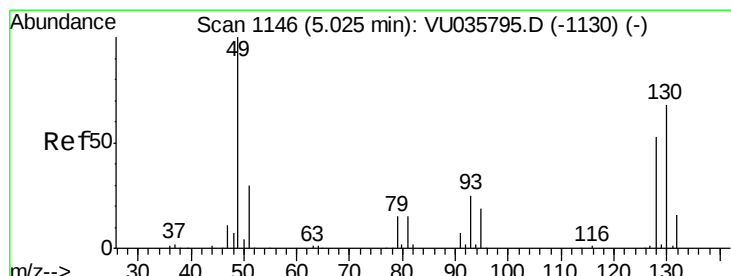
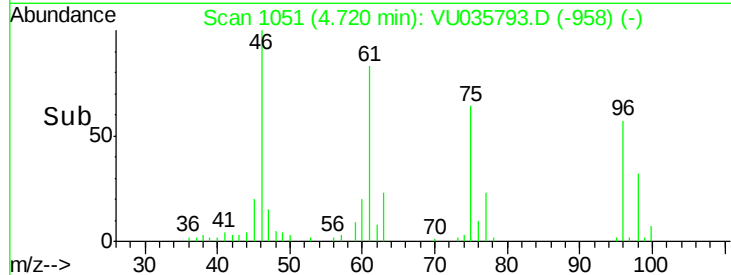
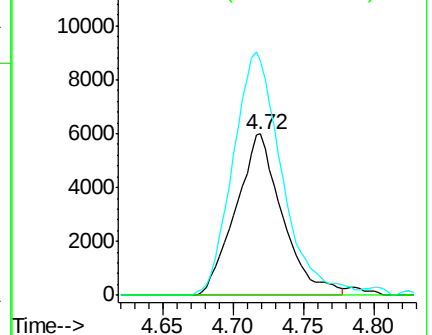
96 100

61 145.3 98.1 182.1

68 0.0 0.0 0.0



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



#23

Bromochloromethane

Concen: 0.540 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Tgt Ion: 128 Resp: 6387

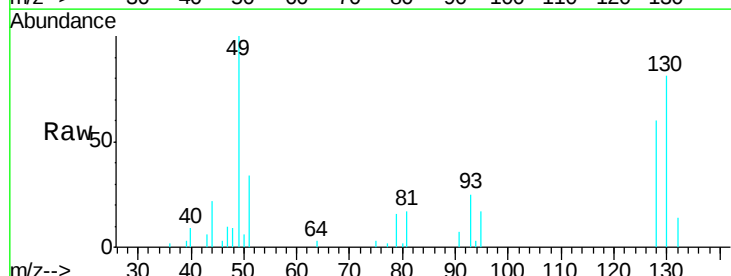
Ion Ratio Lower Upper

128 100

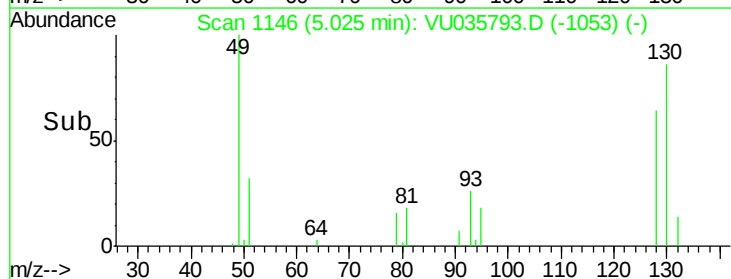
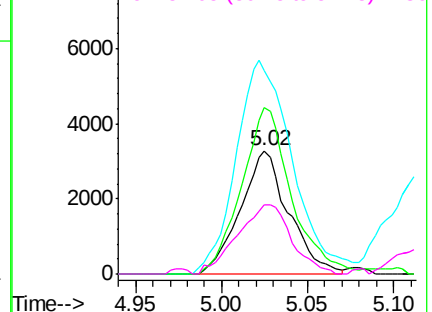
49 165.8 133.8 248.6

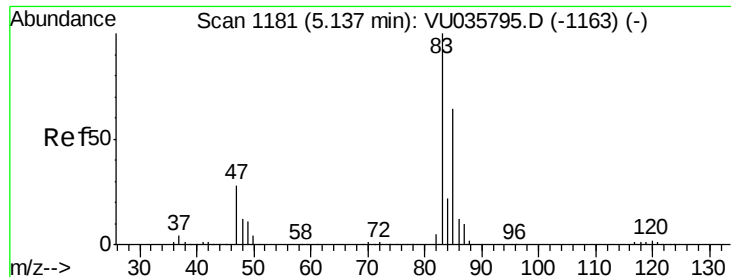
130 134.8 91.1 169.1

51 55.7 46.5 69.7



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

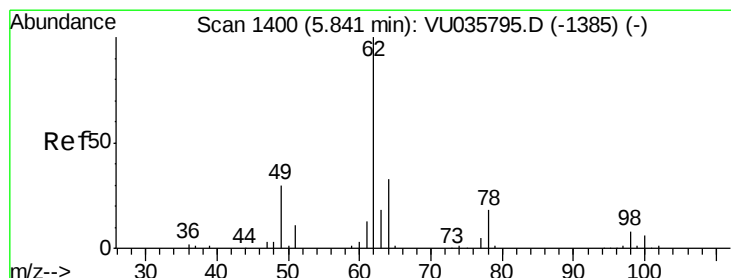
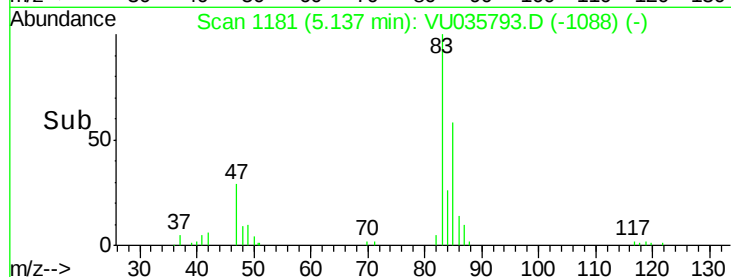
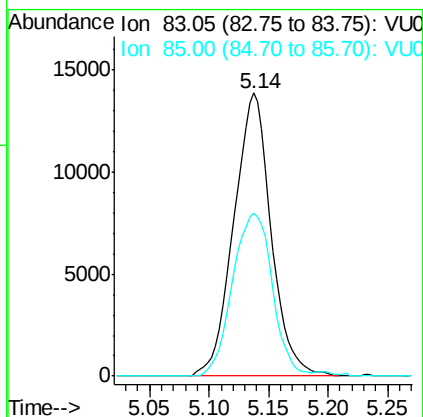
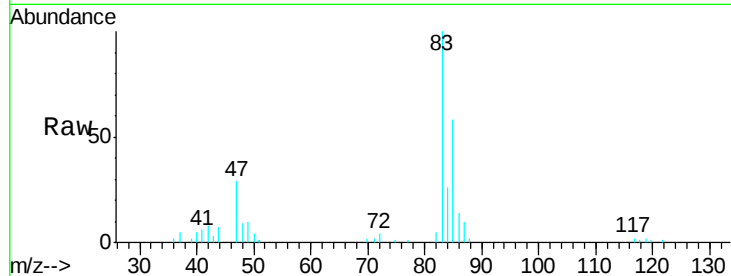




#25  
Chloroform  
Concen: 0.634 ug/L  
RT: 5.14 min Scan# 1181  
Delta R.T. 0.00 min  
Lab File: VU035793.D  
Acq: 21 Nov 2019 09:50

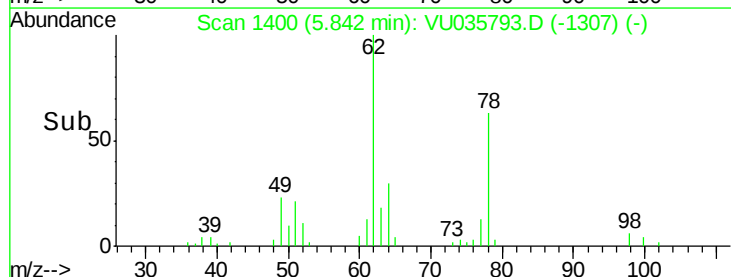
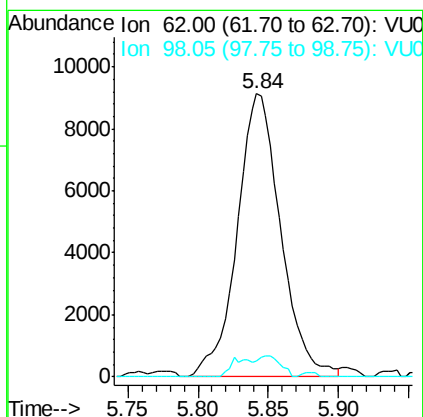
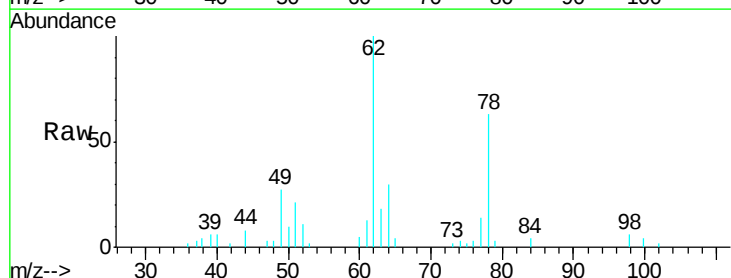
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.503

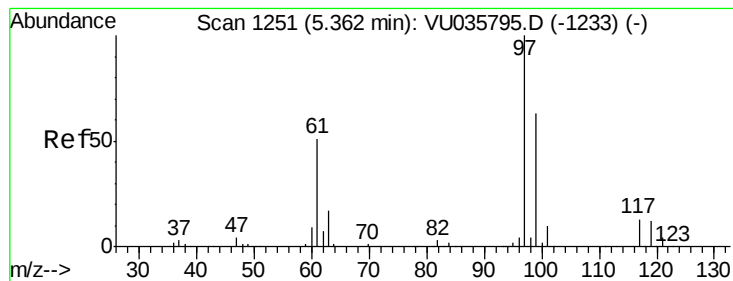
Tgt Ion: 83 Resp: 30117  
Ion Ratio Lower Upper  
83 100  
85 57.6 44.6 82.8



#27  
1,2-Dichloroethane  
Concen: 0.728 ug/L  
RT: 5.84 min Scan# 1400  
Delta R.T. 0.00 min  
Lab File: VU035793.D  
Acq: 21 Nov 2019 09:50

Tgt Ion: 62 Resp: 19758  
Ion Ratio Lower Upper  
62 100  
98 5.7 6.2 9.4#





#29

1,1,1-Trichloroethane

Concen: 0.627 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.503

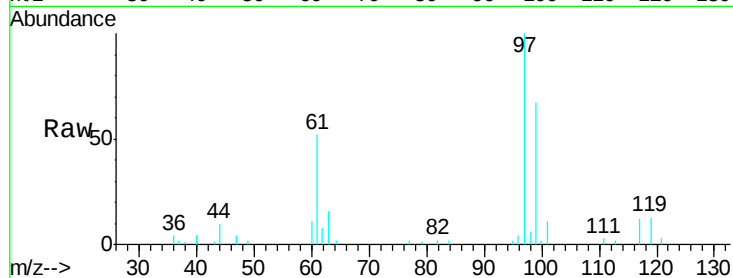
Tgt Ion: 97 Resp: 23265

Ion Ratio Lower Upper

97 100

99 66.9 51.9 77.9

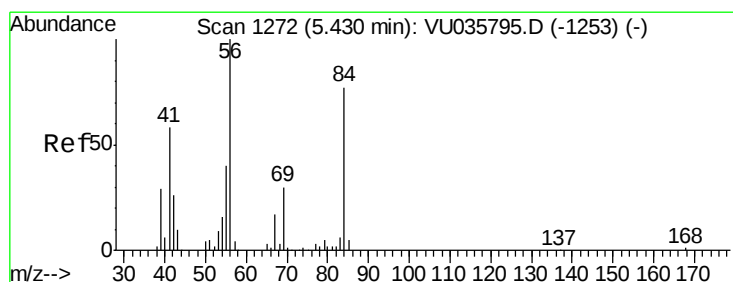
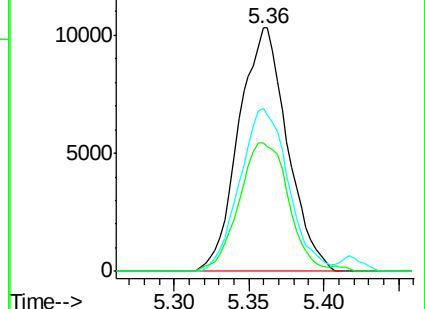
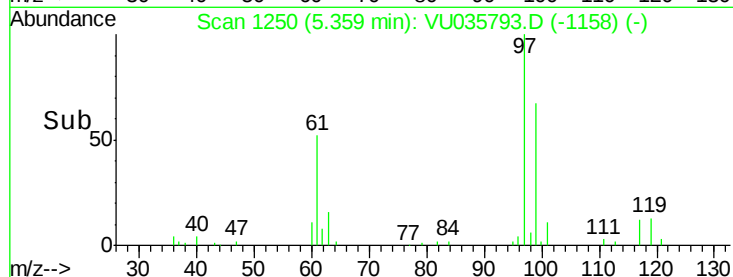
61 54.2 40.3 60.5



Abundance Ion 96.95 (96.65 to 97.65): VU035793.D (-1158) (-)

Ion 99.05 (98.75 to 99.75): VU035793.D (-1158) (-)

Ion 61.05 (60.75 to 61.75): VU035793.D (-1158) (-)



#30

Cyclohexane

Concen: 0.540 ug/L

RT: 5.43 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

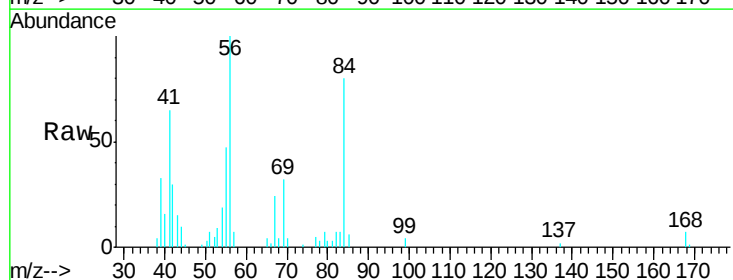
Tgt Ion: 56 Resp: 20029

Ion Ratio Lower Upper

56 100

69 28.8 24.0 36.0

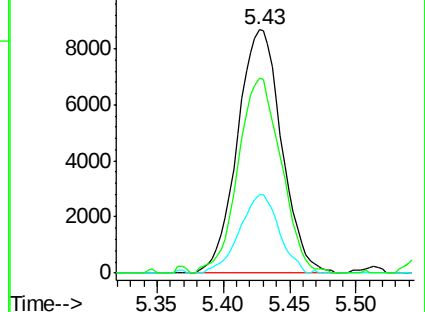
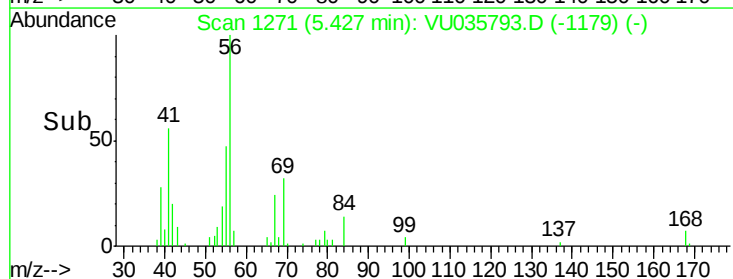
84 78.2 62.1 93.1

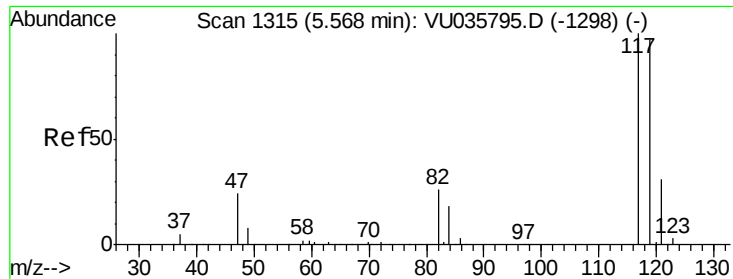


Abundance Ion 56.10 (55.80 to 56.80): VU035793.D (-1179) (-)

Ion 69.15 (68.85 to 69.85): VU035793.D (-1179) (-)

Ion 84.15 (83.85 to 84.85): VU035793.D (-1179) (-)





#31

Carbon tetrachloride

Concen: 0.625 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. -0.01 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

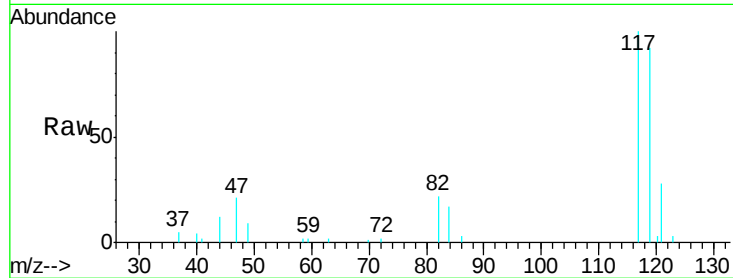
VSTD0.503

Tgt Ion:117 Resp: 20684

Ion Ratio Lower Upper

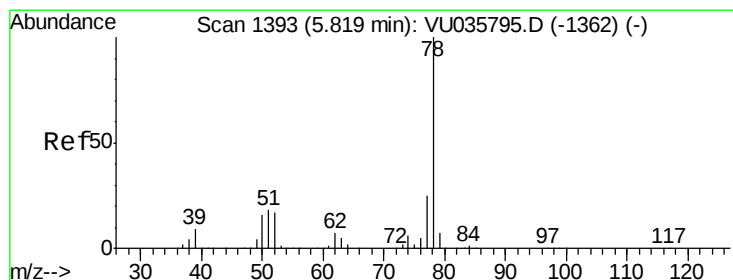
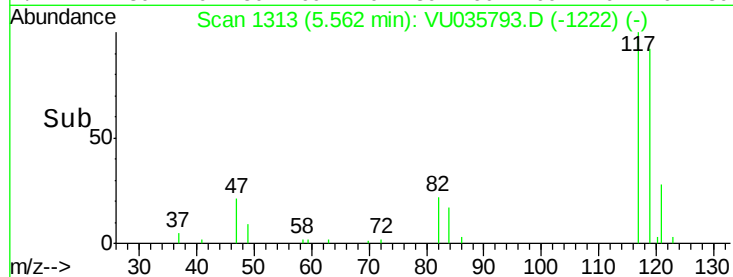
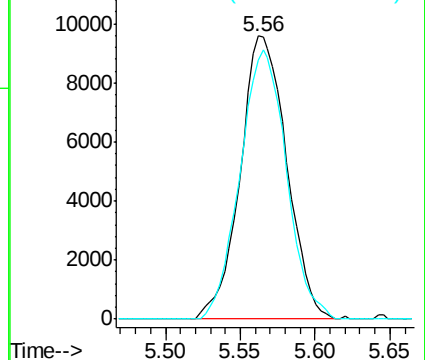
117 100

119 95.2 76.0 114.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.586 ug/L

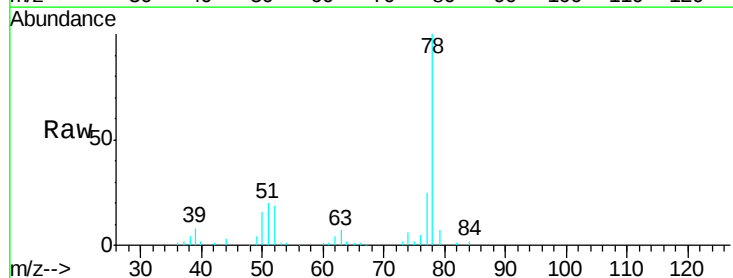
RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

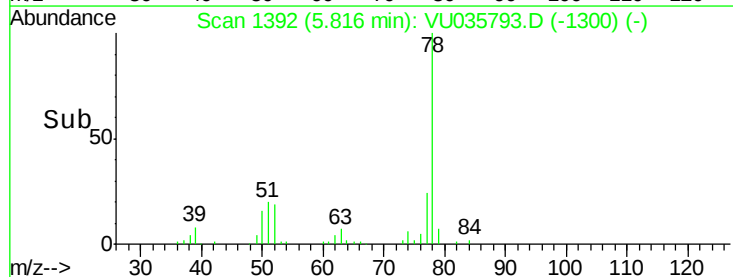
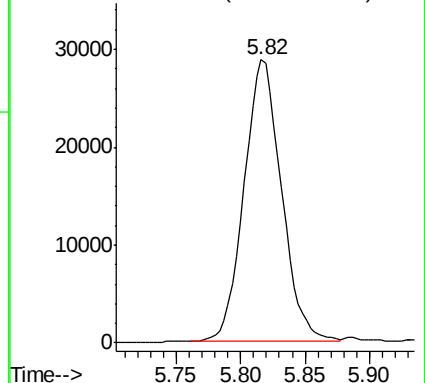
Lab File: VU035793.D

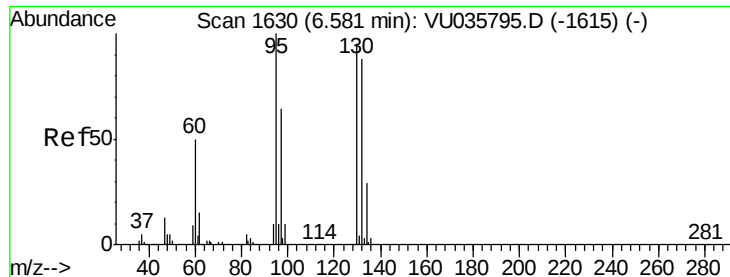
Acq: 21 Nov 2019 09:50

Tgt Ion: 78 Resp: 58225



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.566 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.503

Tgt Ion: 95 Resp: 14199

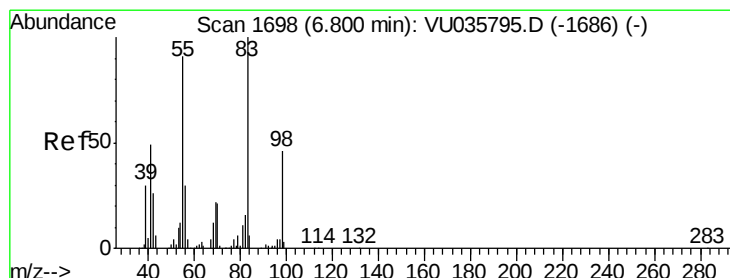
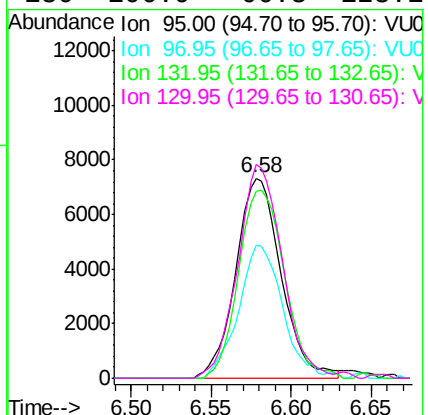
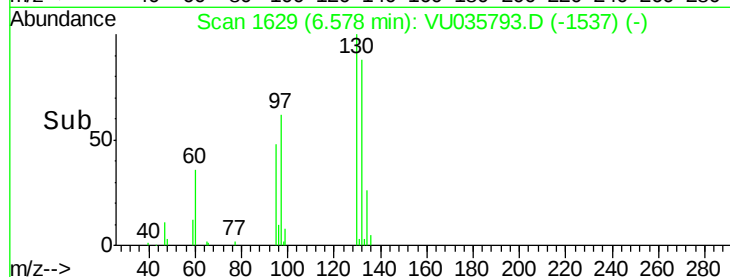
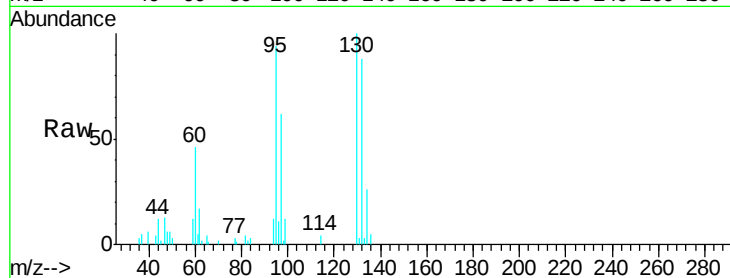
Ion Ratio Lower Upper

95 100

97 66.6 45.1 83.9

132 93.8 61.9 114.9

130 106.9 66.3 123.1



#35

Methylcyclohexane

Concen: 0.513 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

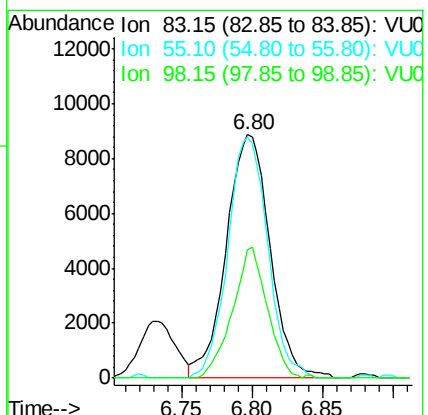
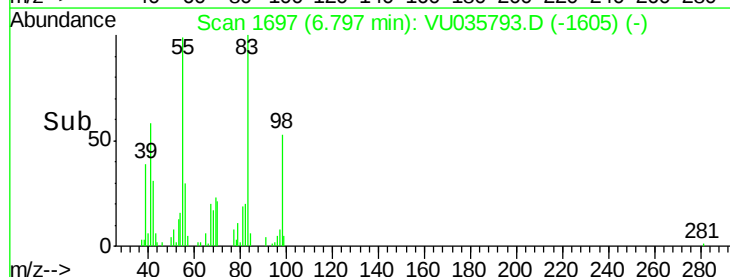
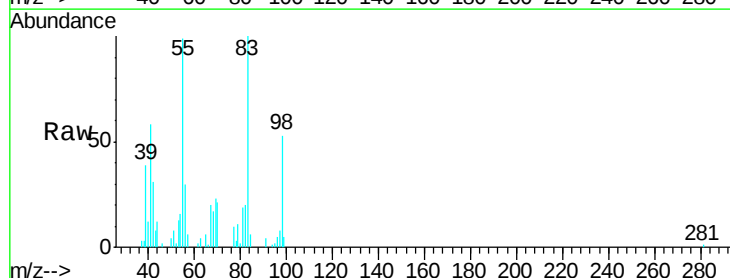
Tgt Ion: 83 Resp: 19272

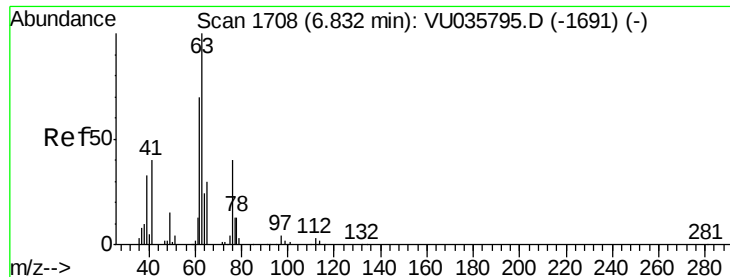
Ion Ratio Lower Upper

83 100

55 90.3 72.7 109.1

98 42.6 36.2 54.4





#37

1,2-Dichloropropane

Concen: 0.643 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

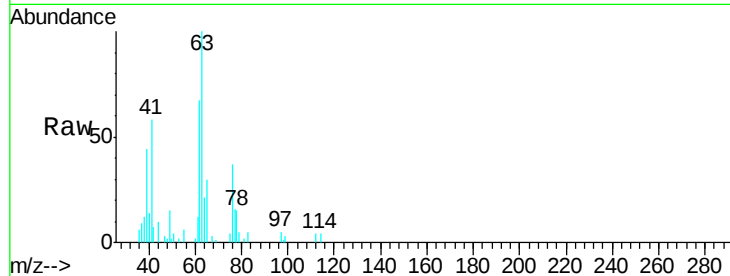
VSTD0.503

Tgt Ion: 63 Resp: 17056

Ion Ratio Lower Upper

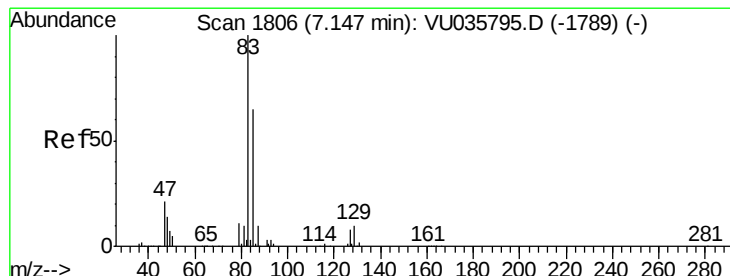
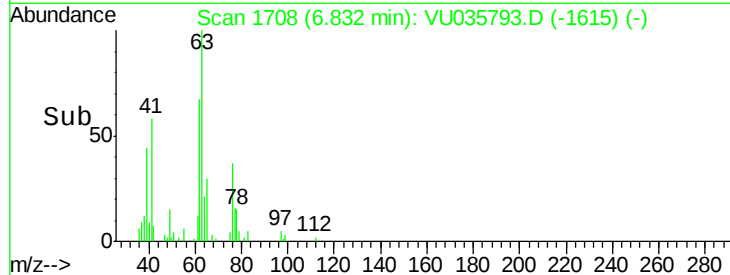
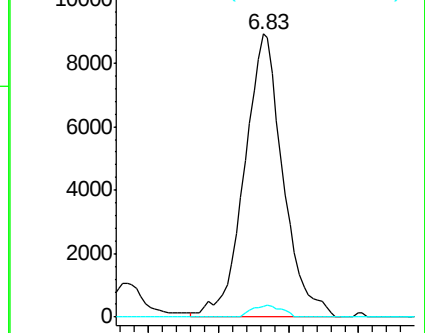
63 100

112 3.4 2.7 4.1



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 0.633 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

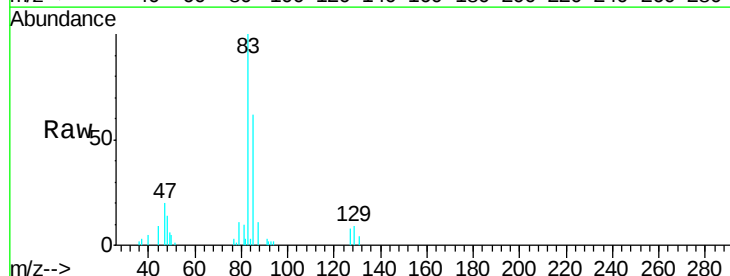
Tgt Ion: 83 Resp: 20284

Ion Ratio Lower Upper

83 100

85 62.4 45.6 84.8

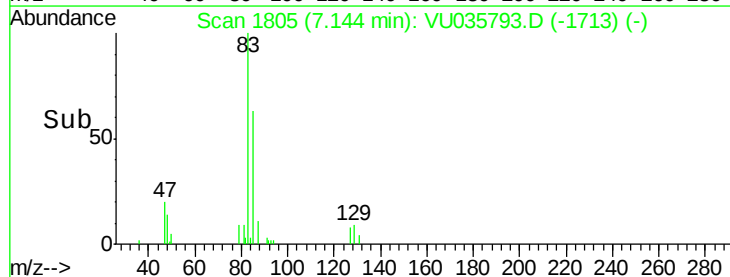
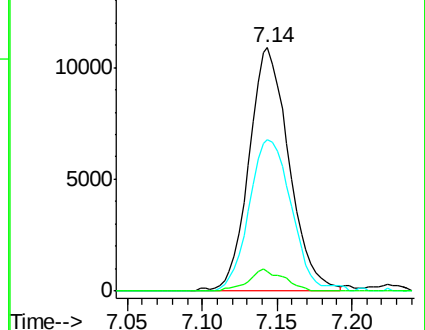
127 8.0 6.0 9.0

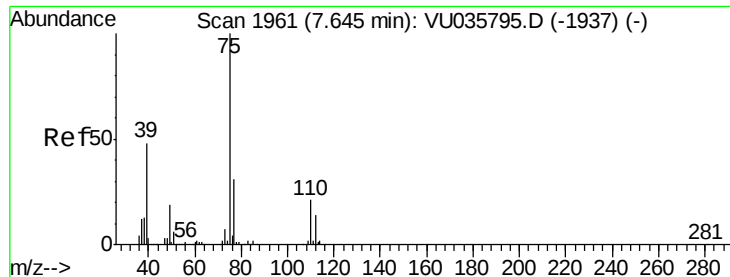


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V

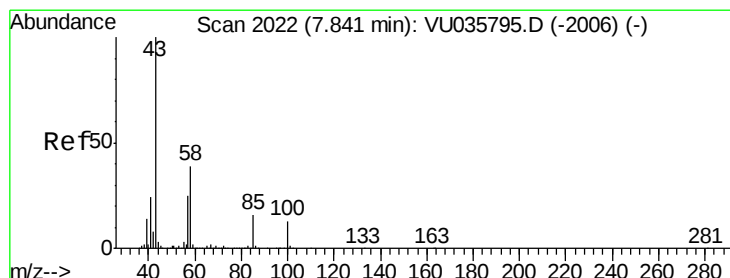
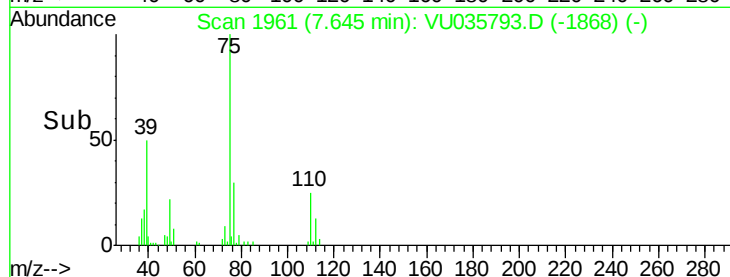
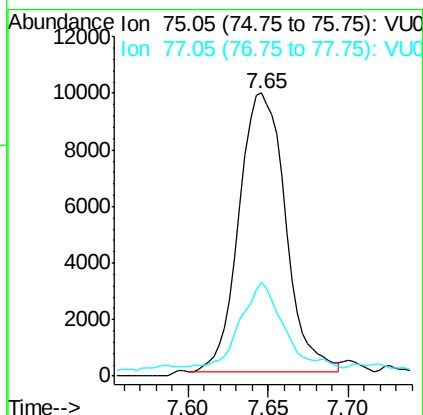
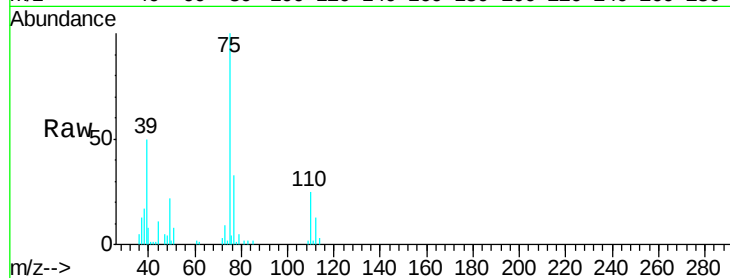




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.531 ug/L  
 RT: 7.65 min Scan# 1961  
 Delta R.T. 0.00 min  
 Lab File: VU035793.D  
 Acq: 21 Nov 2019 09:50

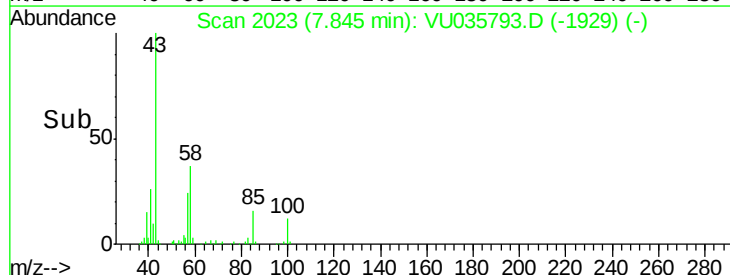
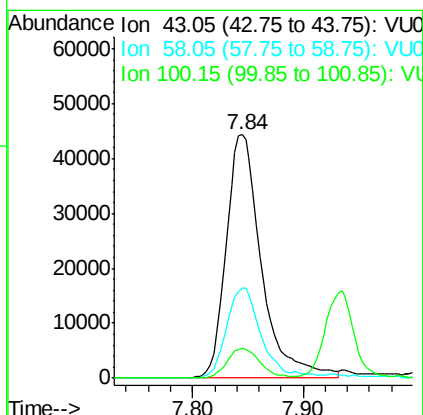
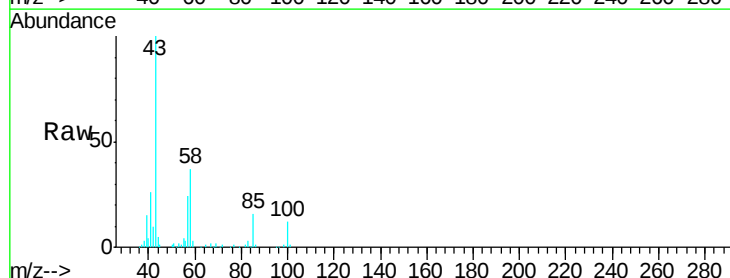
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.503

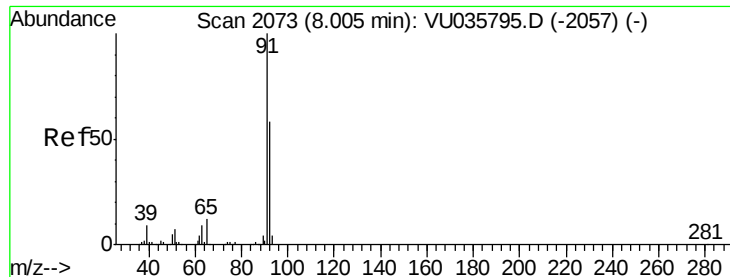
Tgt Ion: 75 Resp: 19741  
 Ion Ratio Lower Upper  
 75 100  
 77 33.0 22.1 41.1



#40  
 4-Methyl-2-pentanone  
 Concen: 6.351 ug/L  
 RT: 7.84 min Scan# 2023  
 Delta R.T. 0.00 min  
 Lab File: VU035793.D  
 Acq: 21 Nov 2019 09:50

Tgt Ion: 43 Resp: 98394  
 Ion Ratio Lower Upper  
 43 100  
 58 36.5 30.8 46.2  
 100 11.4 10.0 15.0





#42

Toluene

Concen: 0.556 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

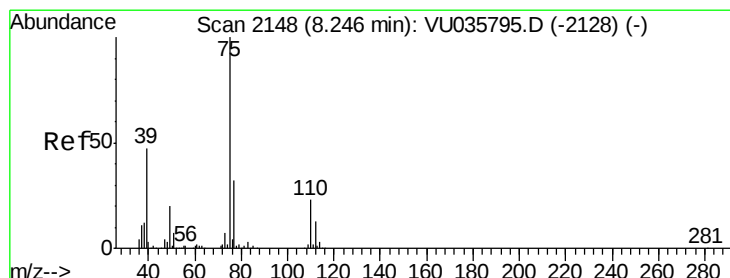
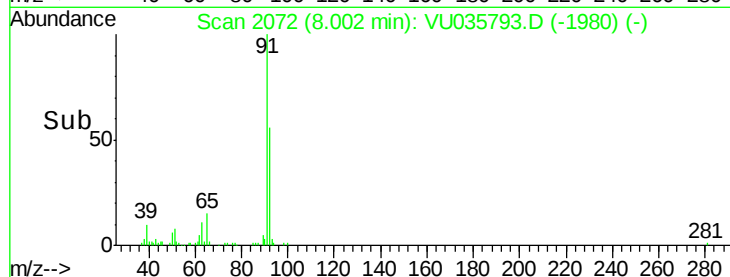
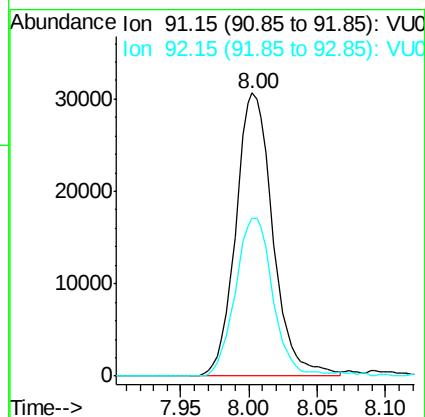
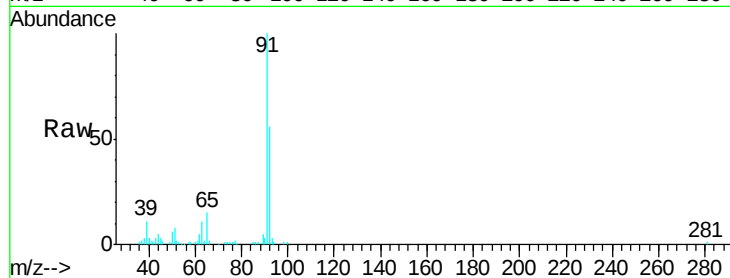
VSTD0.503

Tgt Ion: 91 Resp: 57847

Ion Ratio Lower Upper

91 100

92 55.9 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 0.548 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035793.D

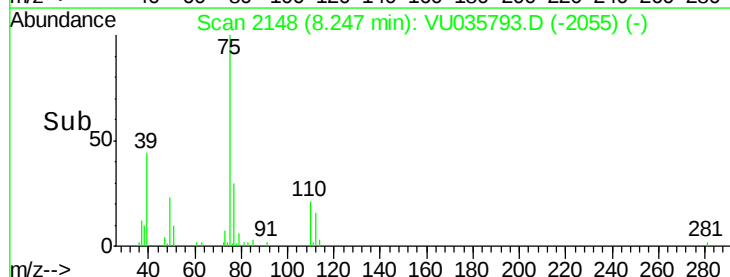
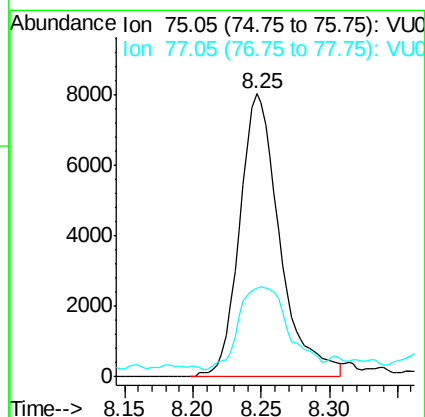
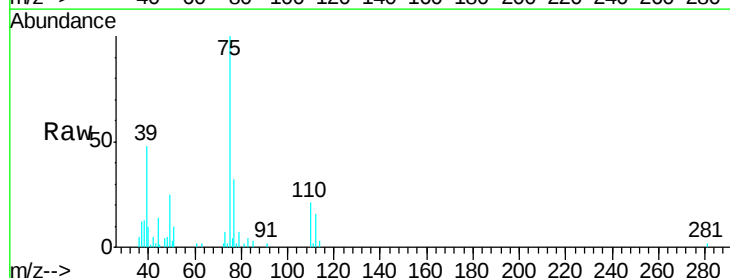
Acq: 21 Nov 2019 09:50

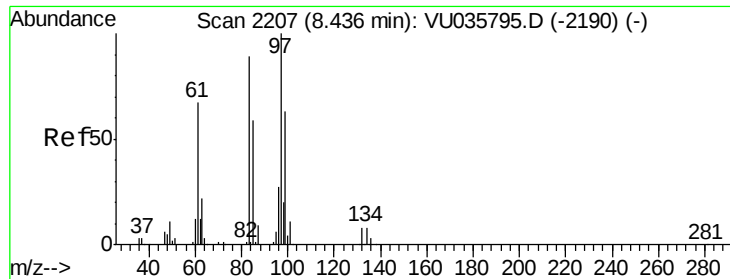
Tgt Ion: 75 Resp: 16389

Ion Ratio Lower Upper

75 100

77 31.5 22.7 42.1

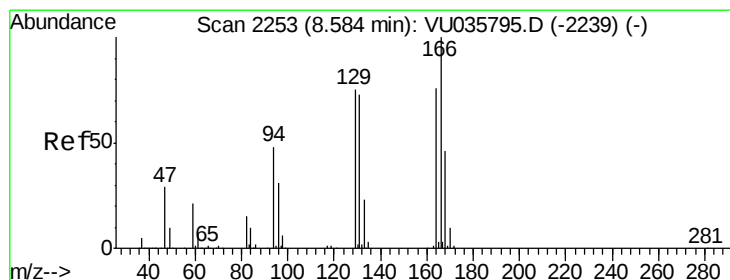
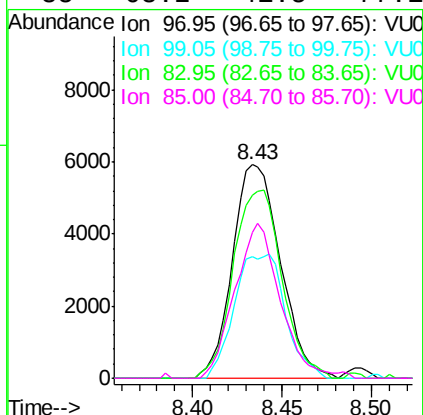
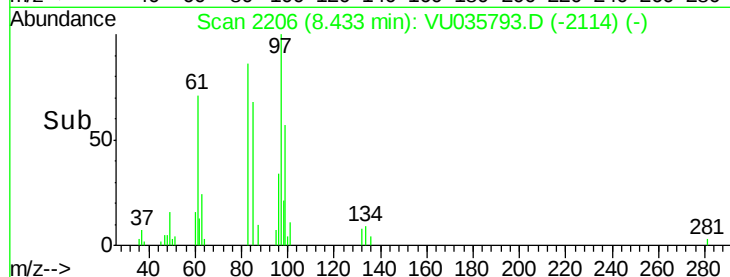
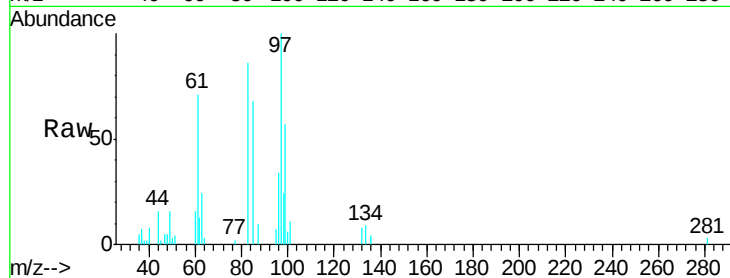




#45  
 1,1,2-Trichloroethane  
 Concen: 0.597 ug/L  
 RT: 8.43 min Scan# 2206  
 Delta R.T. -0.00 min  
 Lab File: VU035793.D  
 Acq: 21 Nov 2019 09:50

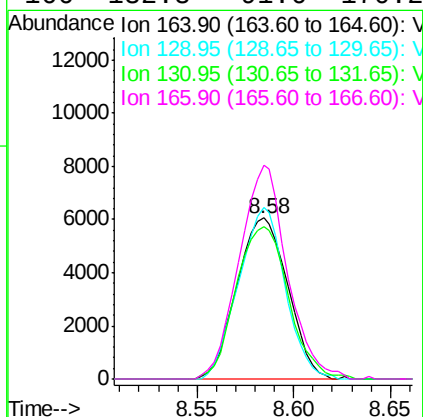
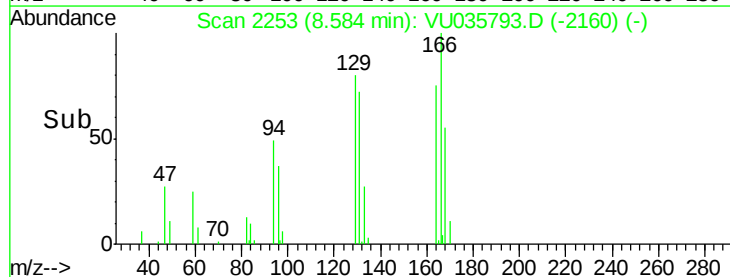
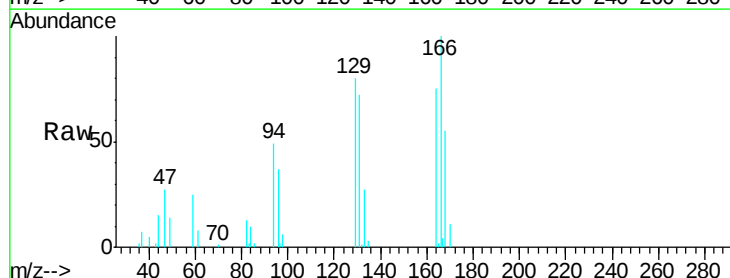
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.503

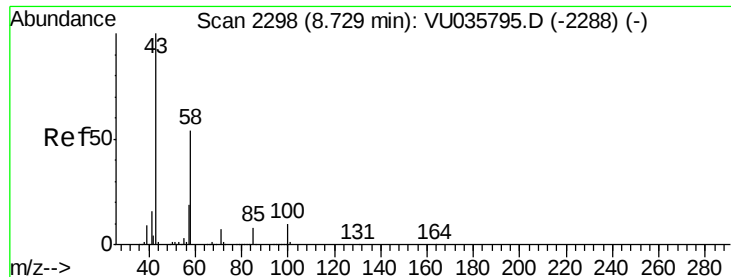
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 11090 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 57.0  | 44.2  | 82.0  |
| 83       | 85.7  | 62.2  | 115.6 |
| 85       | 68.2  | 41.5  | 77.1  |



#47  
 Tetrachloroethene  
 Concen: 0.525 ug/L  
 RT: 8.58 min Scan# 2253  
 Delta R.T. 0.00 min  
 Lab File: VU035793.D  
 Acq: 21 Nov 2019 09:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 11086 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 106.7 | 68.8  | 127.8 |
| 131      | 95.0  | 67.3  | 124.9 |
| 166      | 132.8 | 91.6  | 170.2 |

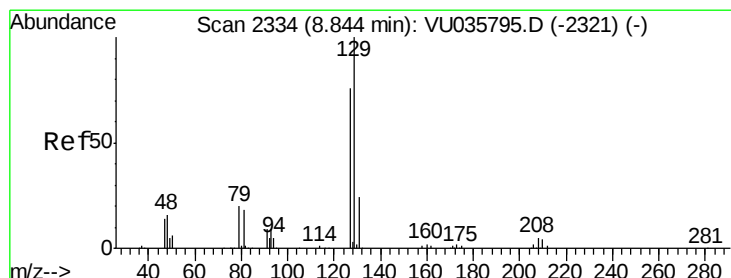
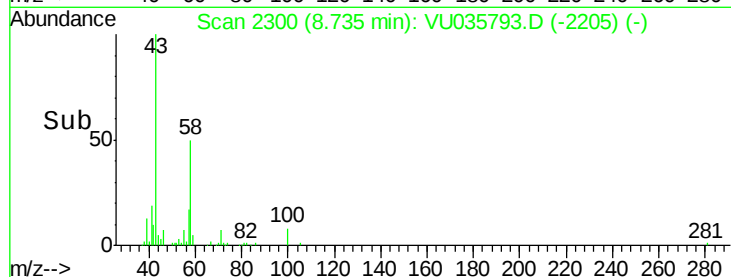
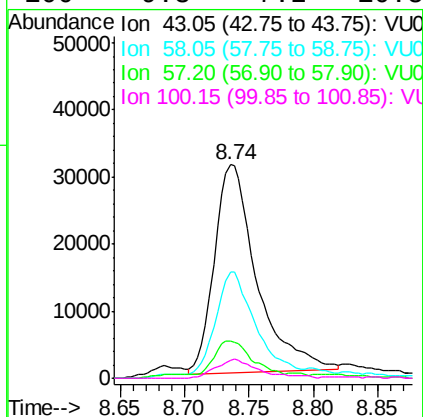
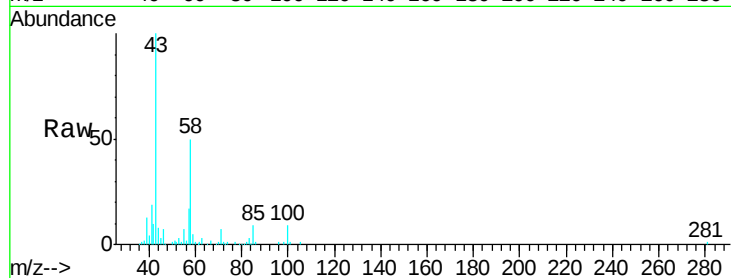




#48  
2-Hexanone  
Concen: 6.358 ug/L  
RT: 8.74 min Scan# 2300  
Delta R.T. 0.01 min  
Lab File: VU035793.D  
Acq: 21 Nov 2019 09:50

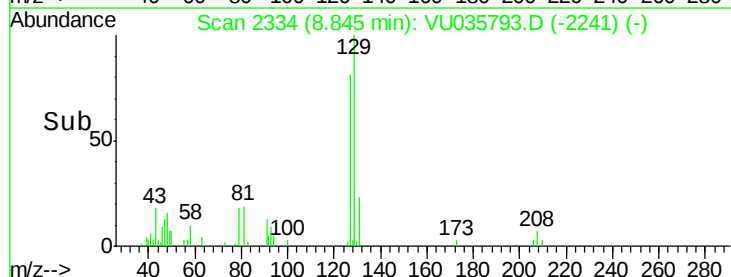
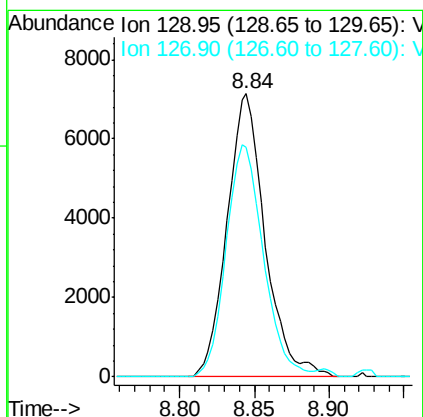
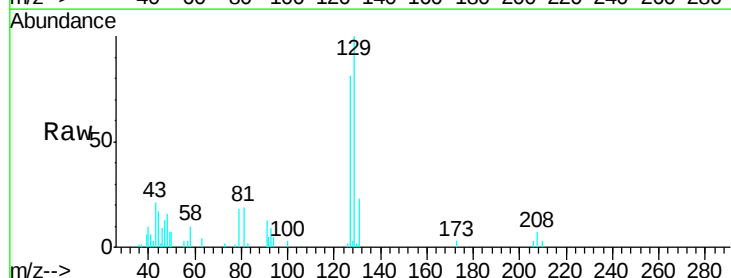
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.503

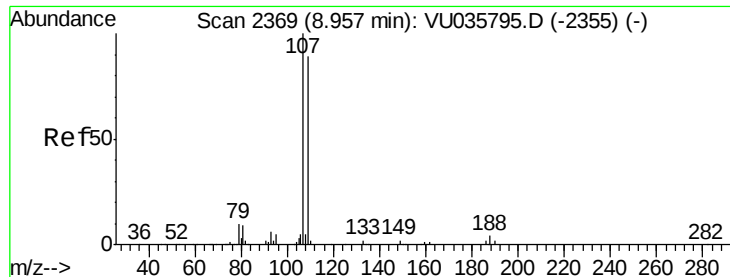
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 70802 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 48.6  | 39.8  | 59.8  |
| 57       | 15.2  | 14.0  | 21.0  |
| 100      | 9.3   | 7.2   | 10.8  |



#49  
Dibromochloromethane  
Concen: 0.555 ug/L  
RT: 8.84 min Scan# 2334  
Delta R.T. 0.00 min  
Lab File: VU035793.D  
Acq: 21 Nov 2019 09:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 12614 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 81.2  | 53.1  | 98.5  |

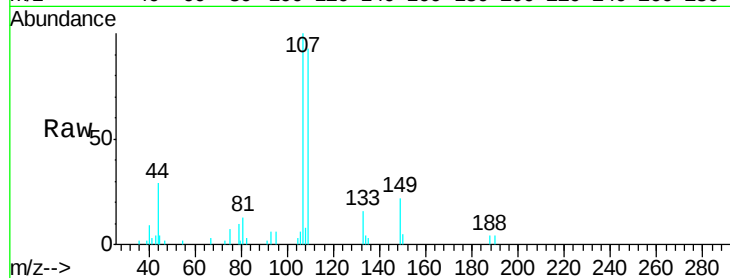




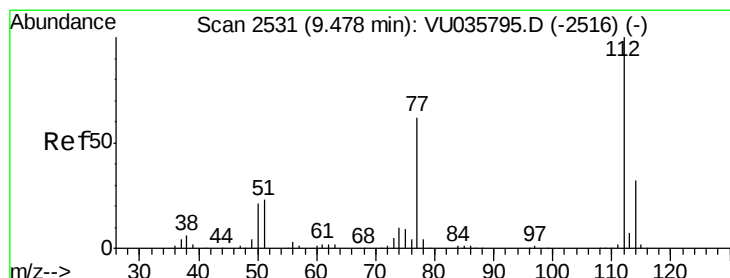
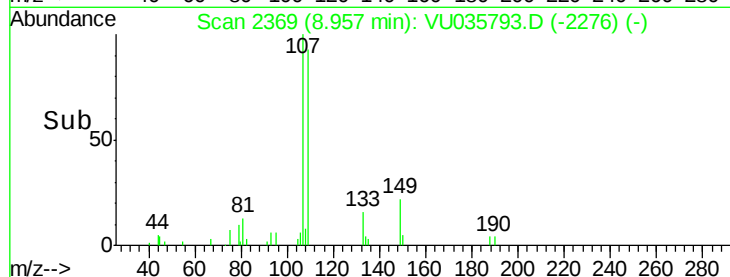
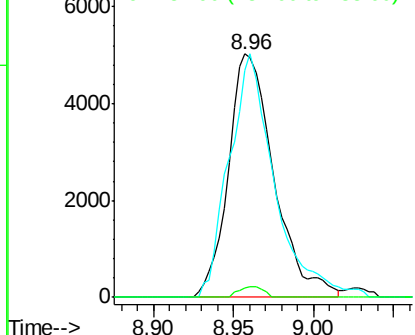
#50  
1,2-Dibromoethane  
Concen: 0.559 ug/L  
RT: 8.96 min Scan# 2369  
Delta R.T. 0.00 min  
Lab File: VU035793.D  
Acq: 21 Nov 2019 09:50

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.503

Tgt Ion:107 Resp: 9793  
Ion Ratio Lower Upper  
107 100  
109 93.5 62.6 116.3  
188 4.0 2.8 4.2

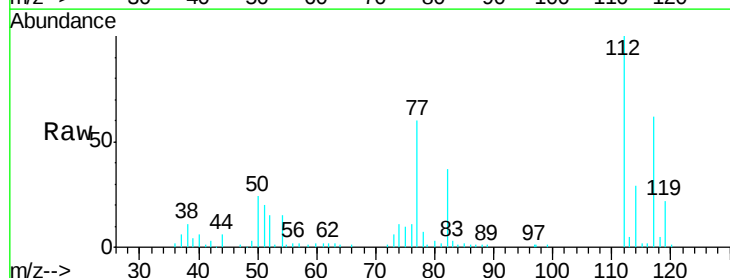


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

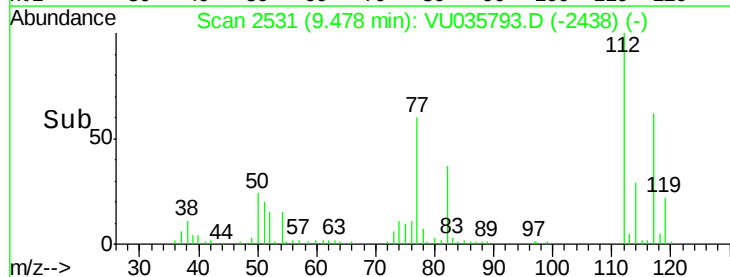
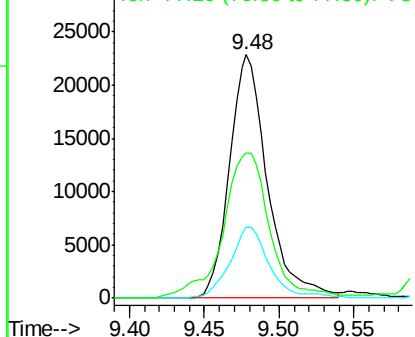


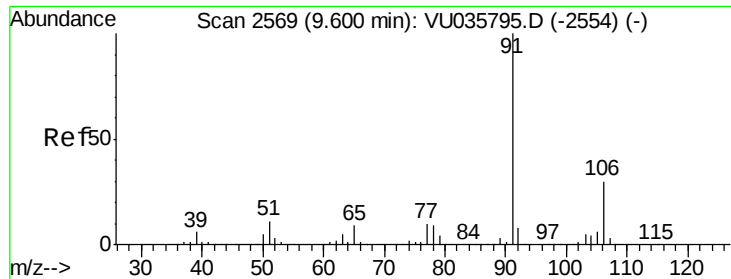
#51  
Chlorobenzene  
Concen: 0.602 ug/L  
RT: 9.48 min Scan# 2531  
Delta R.T. 0.00 min  
Lab File: VU035793.D  
Acq: 21 Nov 2019 09:50

Tgt Ion:112 Resp: 40183  
Ion Ratio Lower Upper  
112 100  
114 29.3 22.2 41.2  
77 59.8 50.1 75.1



Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 0.538 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

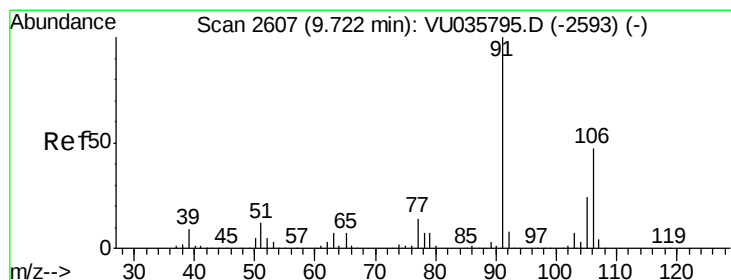
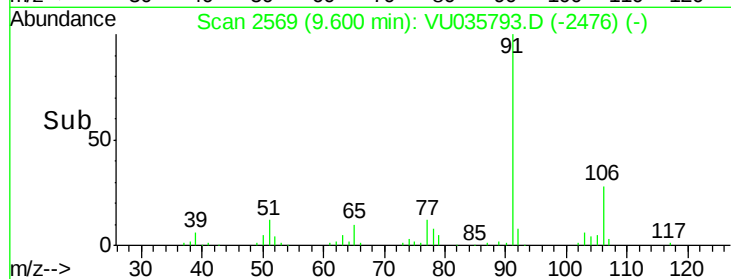
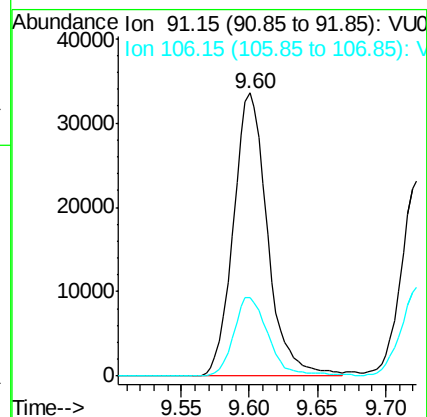
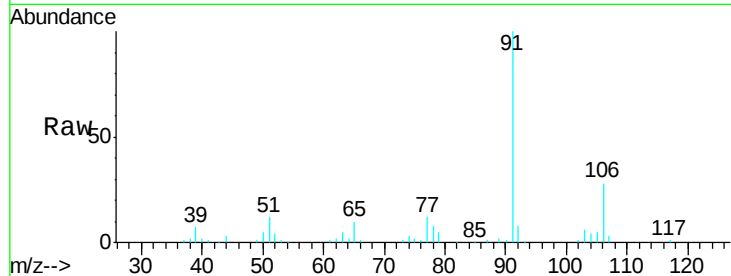
VSTD0.503

Tgt Ion: 91 Resp: 58323

Ion Ratio Lower Upper

91 100

106 27.7 21.2 39.4



#53

m,p-Xylene

Concen: 0.474 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU035793.D

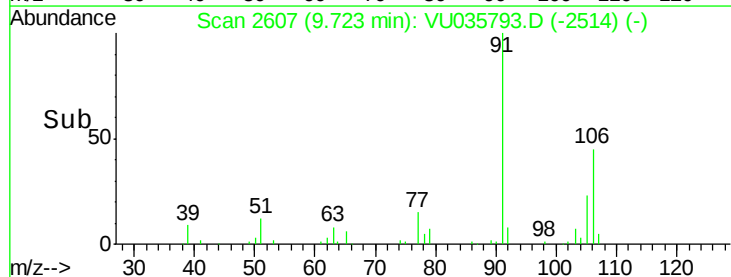
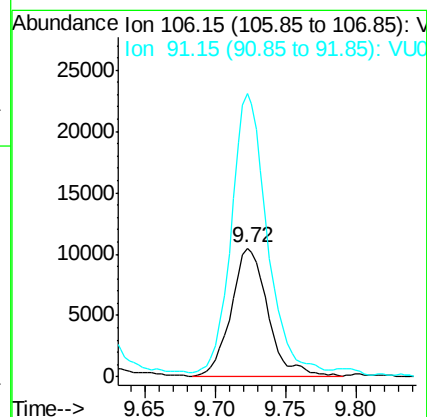
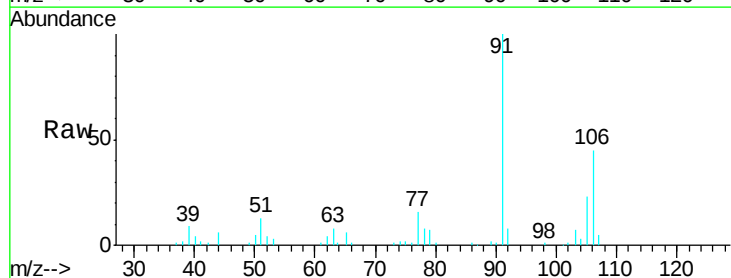
Acq: 21 Nov 2019 09:50

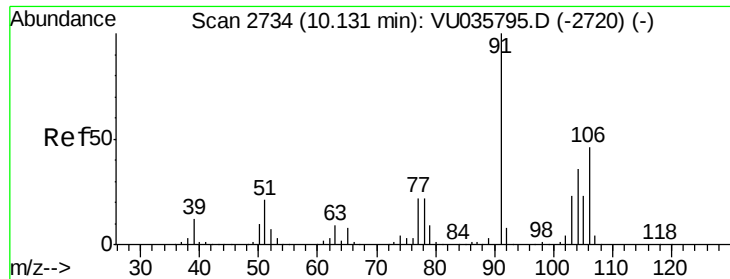
Tgt Ion: 106 Resp: 19224

Ion Ratio Lower Upper

106 100

91 219.8 149.9 278.5

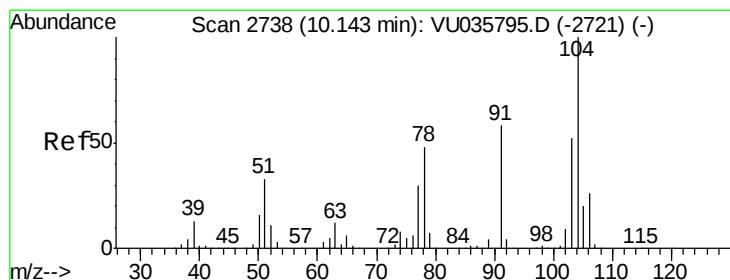
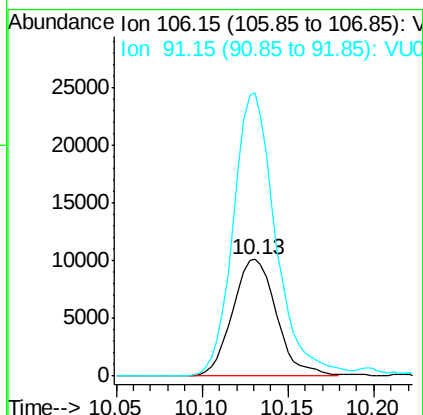
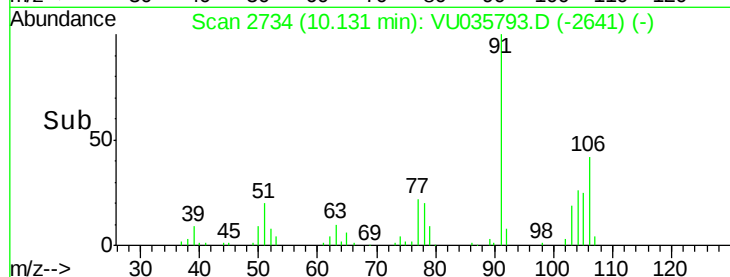
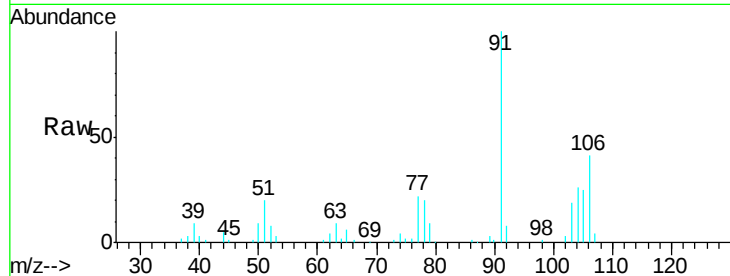




#54  
o-Xylene  
Concen: 0.462 ug/L  
RT: 10.13 min Scan# 2734  
Delta R.T. 0.00 min  
Lab File: VU035793.D  
Acq: 21 Nov 2019 09:50

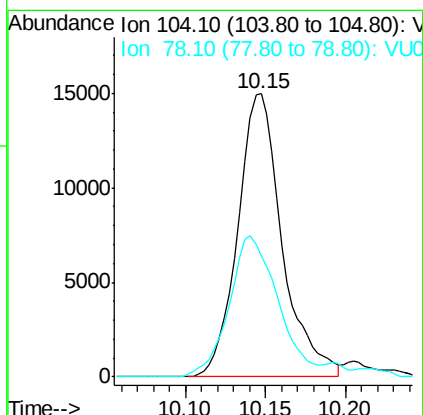
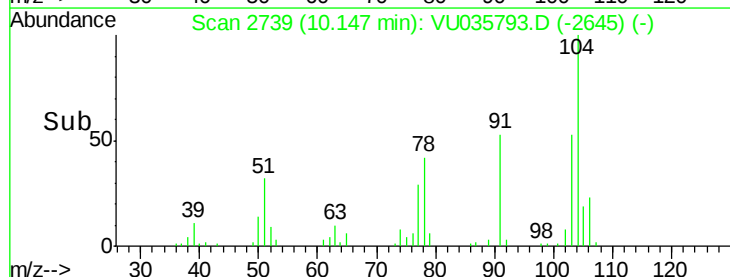
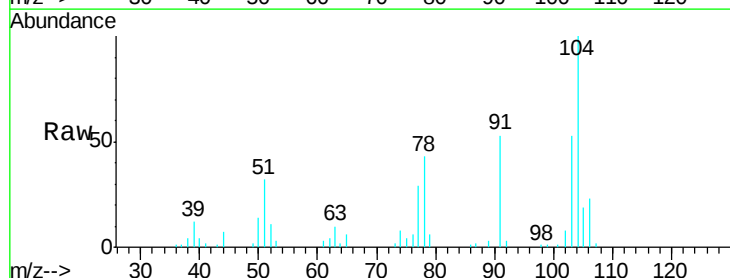
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.503

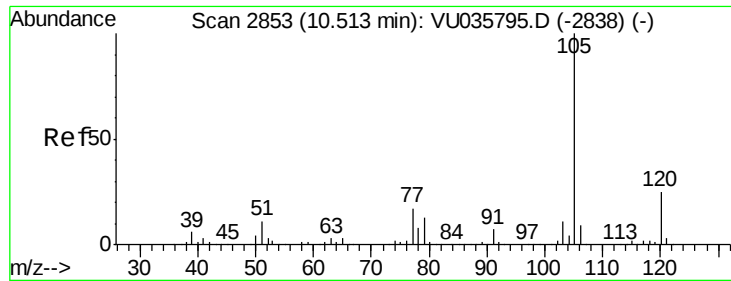
Tgt Ion:106 Resp: 18069  
Ion Ratio Lower Upper  
106 100  
91 242.0 153.6 285.2



#55  
Styrene  
Concen: 0.434 ug/L  
RT: 10.15 min Scan# 2739  
Delta R.T. 0.00 min  
Lab File: VU035793.D  
Acq: 21 Nov 2019 09:50

Tgt Ion:104 Resp: 28337  
Ion Ratio Lower Upper  
104 100  
78 42.5 33.9 62.9





#56

Isopropylbenzene

Concen: 0.460 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.503

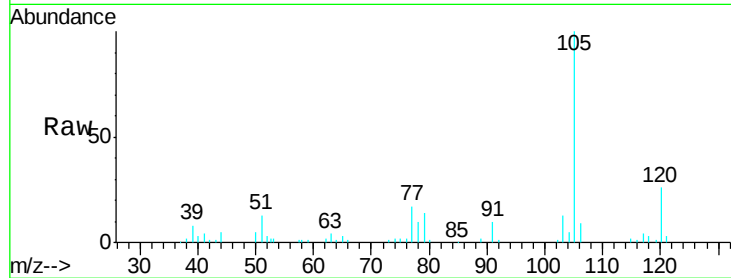
Tgt Ion: 105 Resp: 47690

Ion Ratio Lower Upper

105 100

120 25.2 20.2 30.2

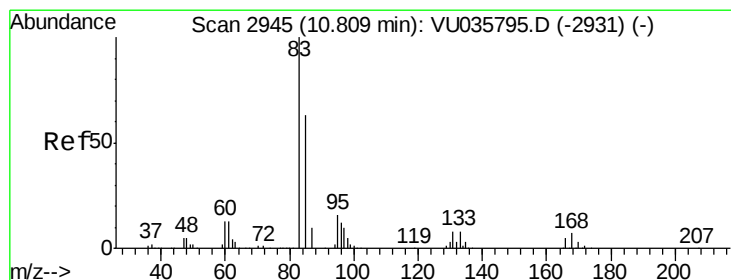
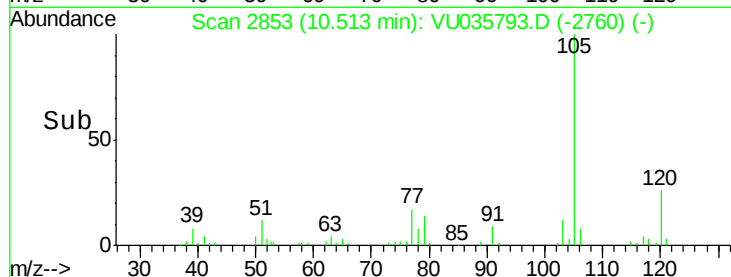
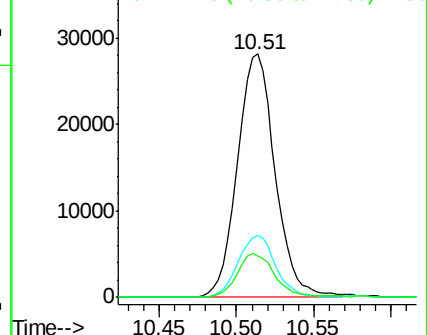
77 17.9 13.7 20.5



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: 0.643 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

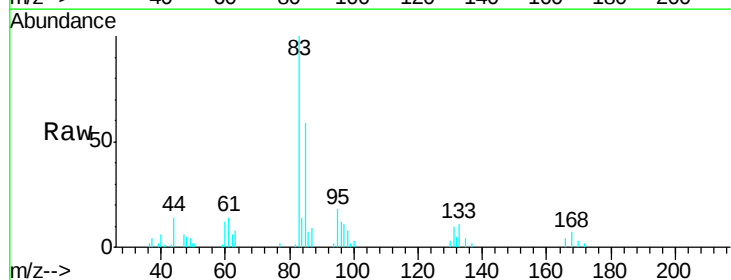
Tgt Ion: 83 Resp: 15739

Ion Ratio Lower Upper

83 100

85 58.6 44.6 82.8

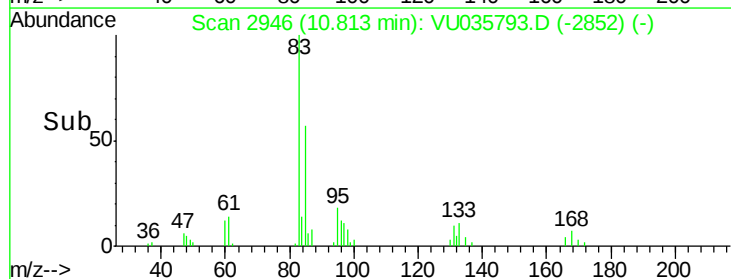
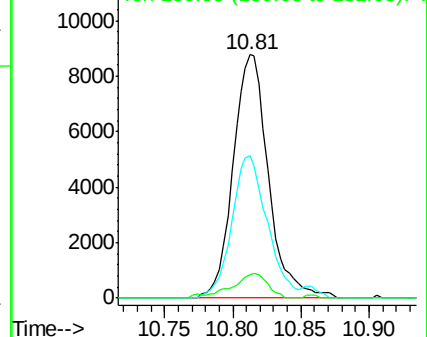
131 9.8 6.9 10.3

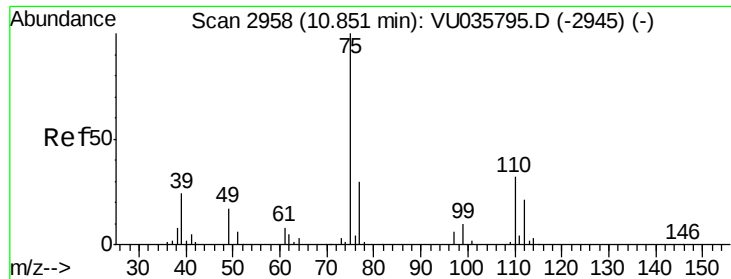


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.642 ug/L

RT: 10.85 min Scan# 2959

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

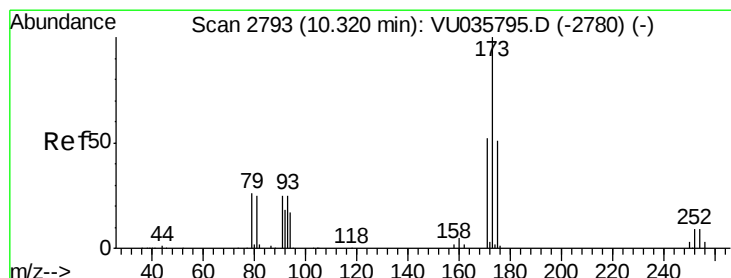
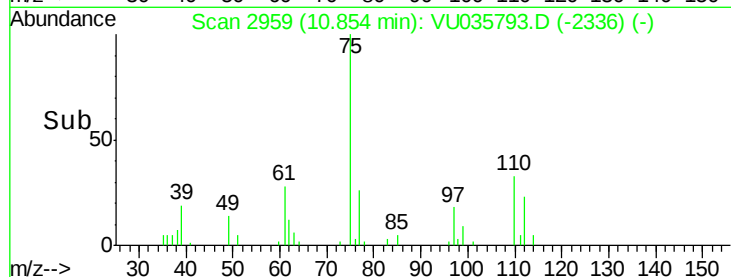
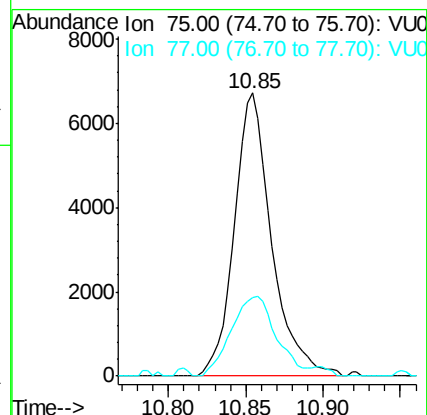
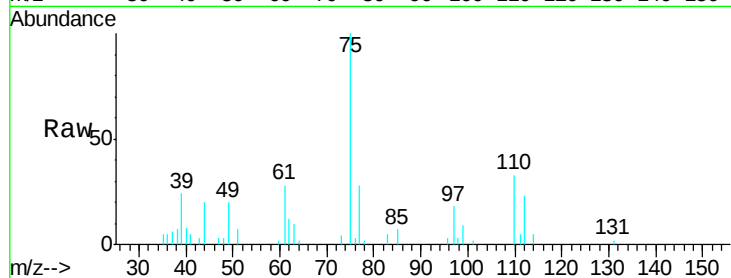
VSTD0.503

Tgt Ion: 75 Resp: 11199

Ion Ratio Lower Upper

75 100

77 34.1 25.4 38.2



#61

Bromoform

Concen: 0.664 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

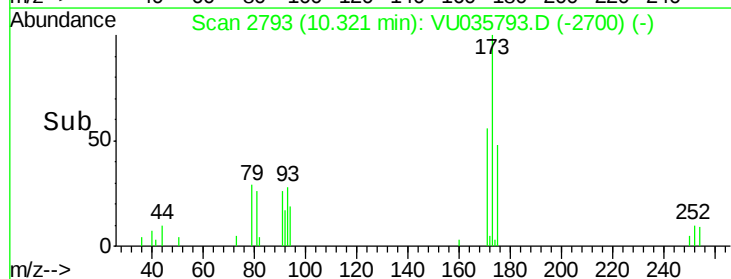
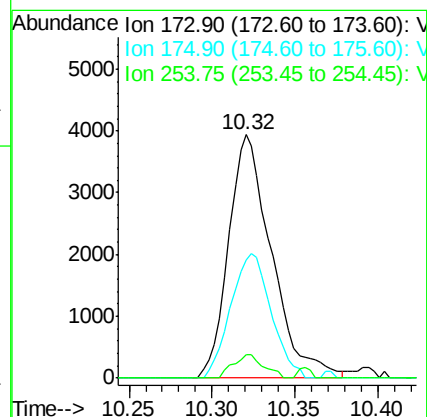
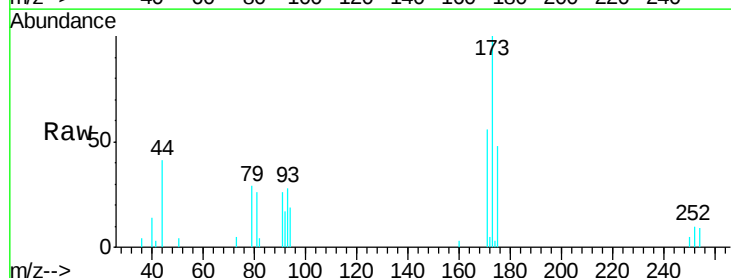
Tgt Ion: 173 Resp: 7113

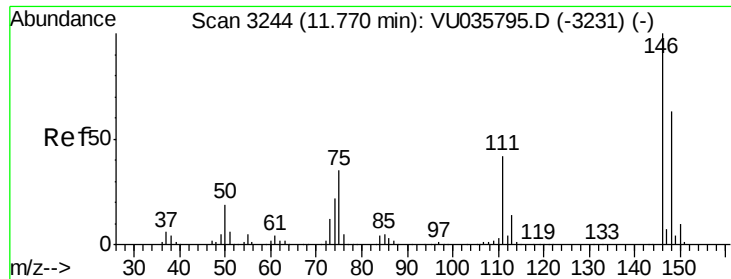
Ion Ratio Lower Upper

173 100

175 47.6 40.1 60.1

254 6.8 7.1 10.7#

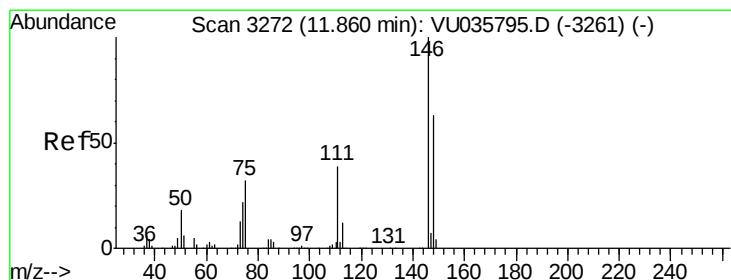
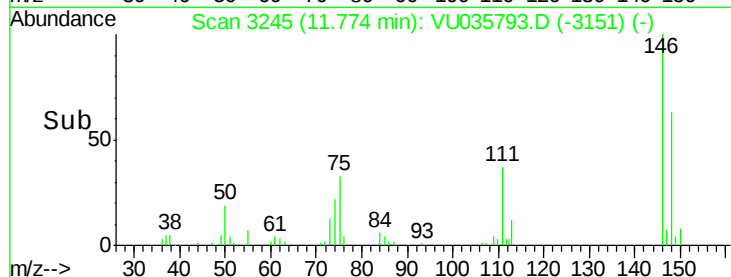
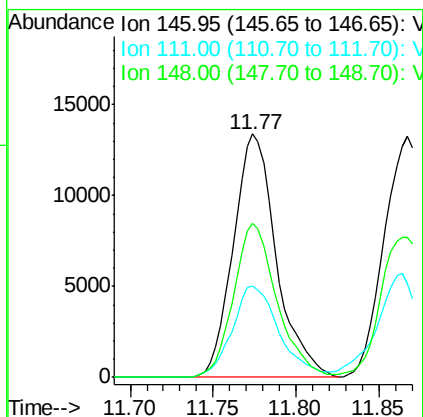
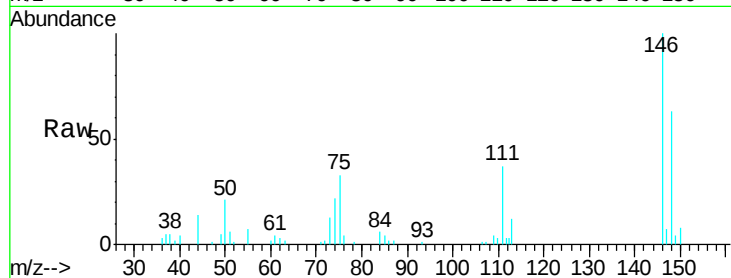




#62  
 1,3-Dichlorobenzene  
 Concen: 0.605 ug/L  
 RT: 11.77 min Scan# 3245  
 Delta R.T. 0.00 min  
 Lab File: VU035793.D  
 Acq: 21 Nov 2019 09:50

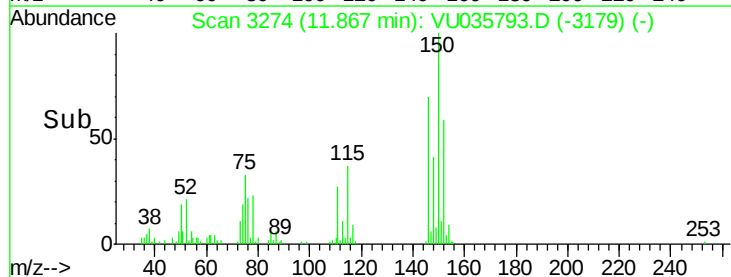
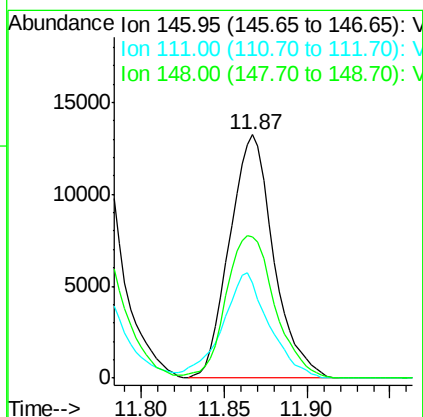
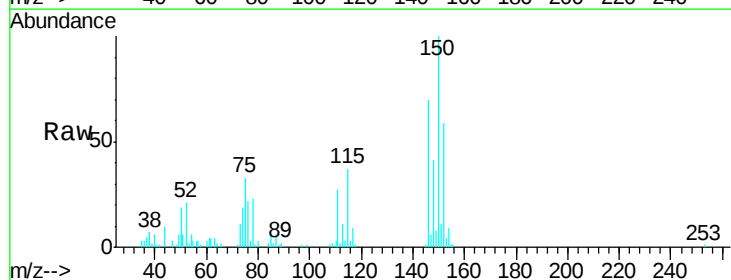
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.503

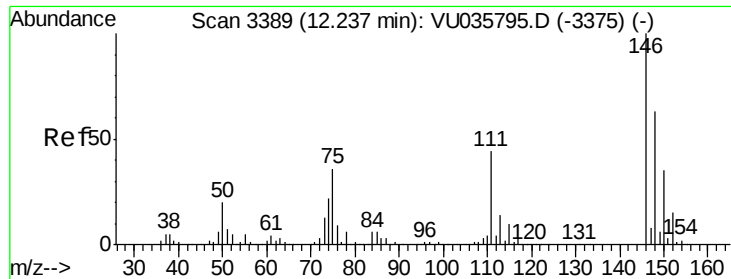
Tgt Ion:146 Resp: 24117  
 Ion Ratio Lower Upper  
 146 100  
 111 37.4 29.5 54.7  
 148 63.4 44.1 81.9



#63  
 1,4-Dichlorobenzene  
 Concen: 0.637 ug/L  
 RT: 11.87 min Scan# 3274  
 Delta R.T. 0.01 min  
 Lab File: VU035793.D  
 Acq: 21 Nov 2019 09:50

Tgt Ion:146 Resp: 24492  
 Ion Ratio Lower Upper  
 146 100  
 111 39.1 27.9 51.7  
 148 58.2 44.2 82.2





#65

1,2-Dichlorobenzene

Concen: 0.640 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.503

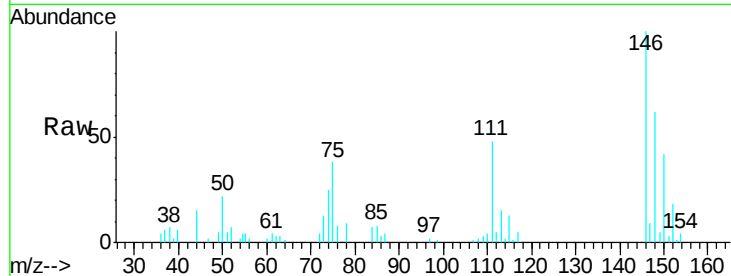
Tgt Ion: 146 Resp: 23885

Ion Ratio Lower Upper

146 100

111 48.2 35.4 53.0

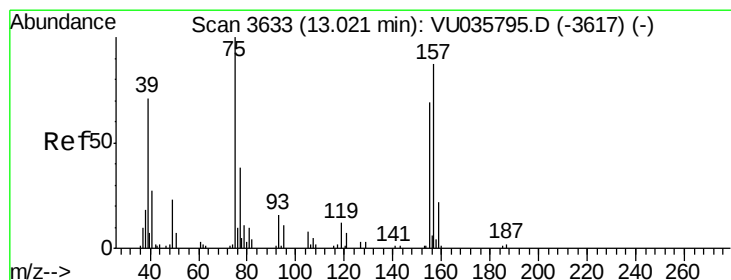
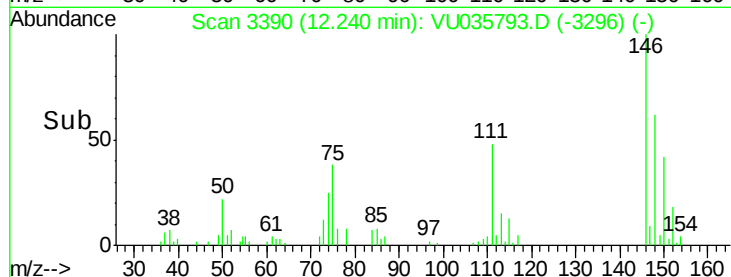
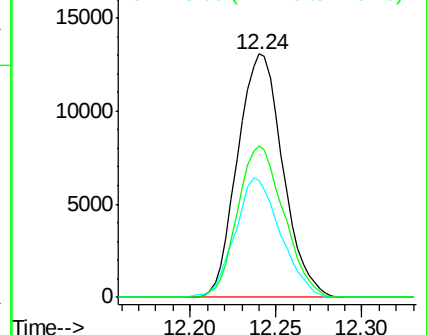
148 62.4 50.8 76.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.886 ug/L

RT: 13.03 min Scan# 3636

Delta R.T. 0.01 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

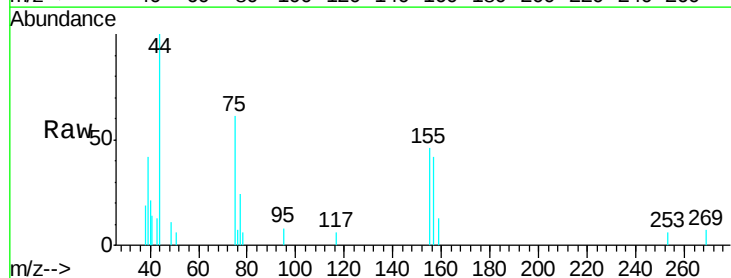
Tgt Ion: 75 Resp: 2197

Ion Ratio Lower Upper

75 100

155 76.2 55.4 83.2

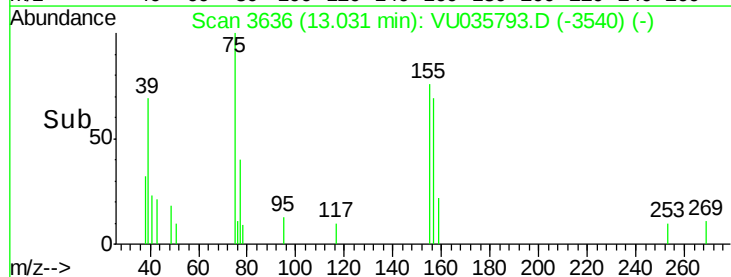
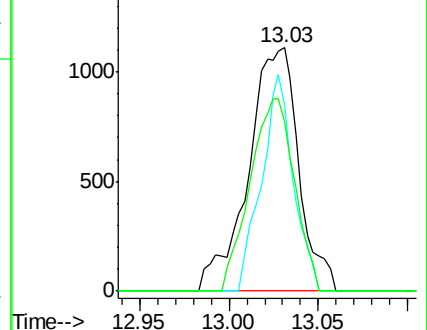
157 69.5 69.4 104.2

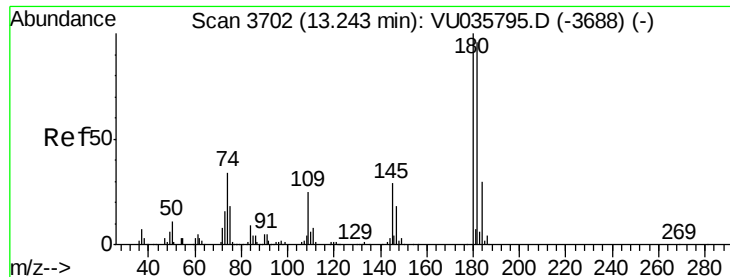


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

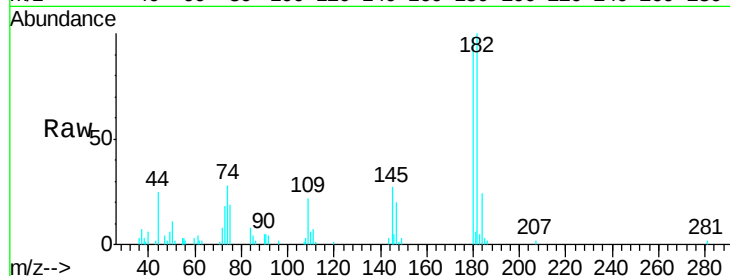




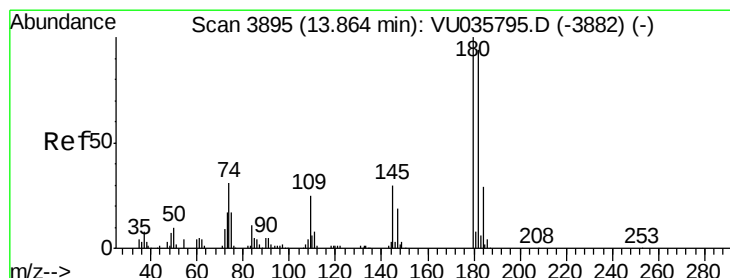
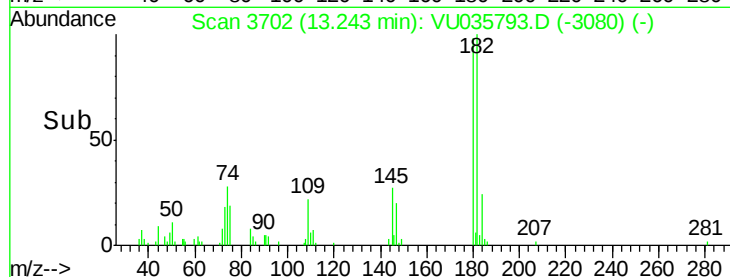
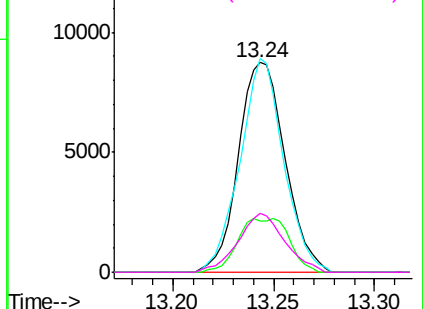
#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.558 ug/L  
 RT: 13.24 min Scan# 3702  
 Delta R.T. 0.00 min  
 Lab File: VU035793.D  
 Acq: 21 Nov 2019 09:50

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.503

Tgt Ion:180 Resp: 14145  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 75.6 113.4  
 184 28.2 24.1 36.1  
 145 28.3 23.7 35.5

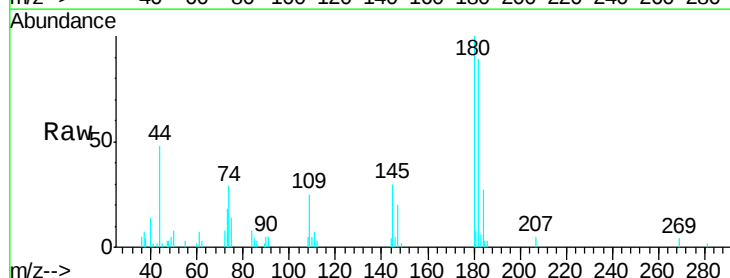


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

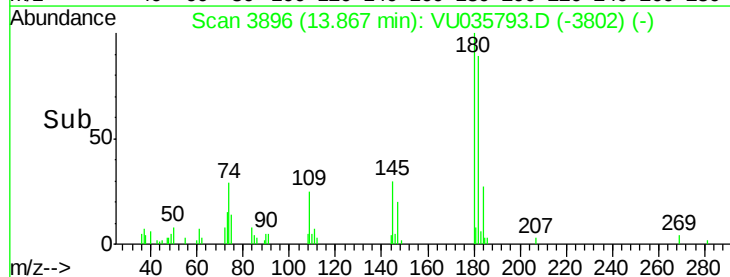
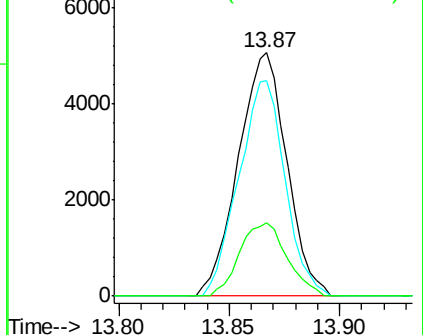


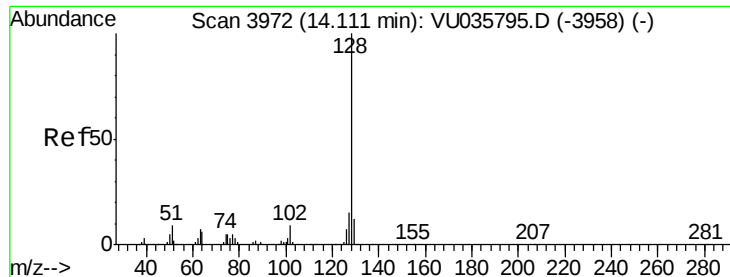
#68  
 1,2,4-trichlorobenzene  
 Concen: 0.509 ug/L  
 RT: 13.87 min Scan# 3896  
 Delta R.T. 0.00 min  
 Lab File: VU035793.D  
 Acq: 21 Nov 2019 09:50

Tgt Ion:180 Resp: 7753  
 Ion Ratio Lower Upper  
 180 100  
 182 84.4 75.1 112.7  
 145 29.4 24.0 36.0



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.572 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.503

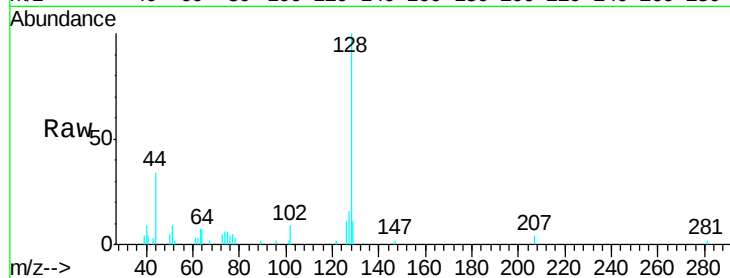
Tgt Ion:128 Resp: 10845

Ion Ratio Lower Upper

128 100

129 11.5 9.0 13.4

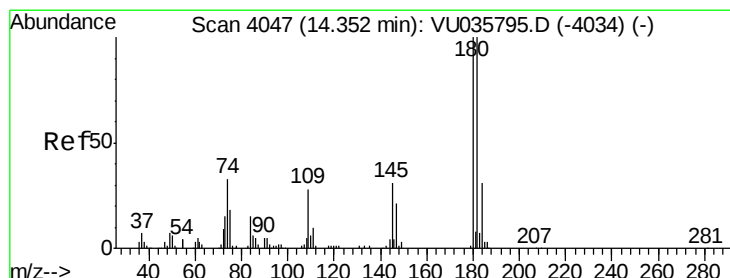
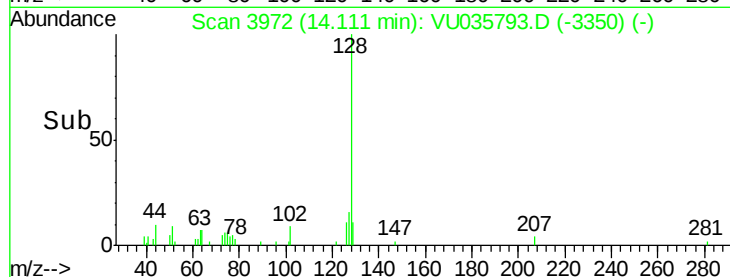
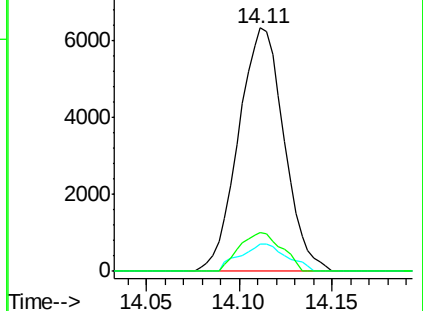
127 14.8 11.8 17.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.505 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VU035793.D

Acq: 21 Nov 2019 09:50

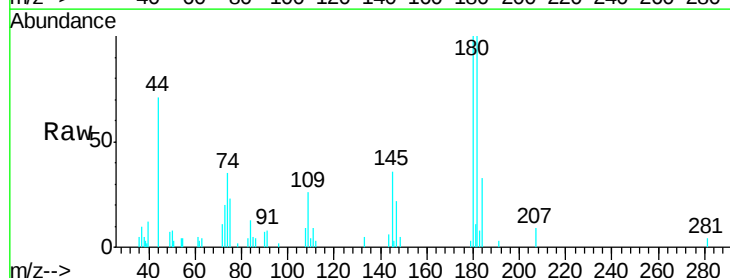
Tgt Ion:180 Resp: 7434

Ion Ratio Lower Upper

180 100

182 106.0 77.4 116.0

145 34.2 24.7 37.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

