

Data File : VU033053.D  
Acq On : 27 Jun 2019 09:41  
Operator : JC/SP  
Sample : VSTD0.501  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.501

Quant Time: Jun 28 01:35:31 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Jun 28 01:32:47 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 87568    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 88612    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 45899    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.39  | 65  | 2997  | 0.51 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.68  | 69  | 2292  | 0.48 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.27  | 63  | 6005  | 0.47 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.20  | 46  | 7453  | 4.21 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.64  | 84  | 5947  | 0.49 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.31  | 65  | 3510  | 0.51 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.33  | 84  | 10217 | 0.47 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.33  | 67  | 3189  | 0.45 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.56  | 98  | 9511  | 0.45 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.85  | 79  | 1226  | 0.41 | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.31  | 63  | 4445  | 3.58 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84  | 2748  | 0.45 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.85 | 152 | 4465  | 0.51 | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 4384  | 0.486 ug/L   | 99     |
| 3) Chloromethane               | 1.32 | 50  | 4388  | 0.517 ug/L   | 98     |
| 5) Vinyl chloride              | 1.40 | 62  | 4419  | 0.516 ug/L   | 96     |
| 6) Bromomethane                | 1.63 | 94  | 2221  | 0.495 ug/L   | 95     |
| 8) Chloroethane                | 1.70 | 64  | 2438  | 0.491 ug/L   | 100    |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 5899  | 0.486 ug/L   | 95     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 3175  | 0.505 ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 3005  | 0.516 ug/L   | 98     |
| 13) Acetone                    | 2.32 | 43  | 7755  | 5.201 ug/L   | 99     |
| 14) Carbon disulfide           | 2.47 | 76  | 10034 | 0.517 ug/L   | 97     |
| 15) Methyl Acetate             | 2.62 | 43  | 1784  | 0.517 ug/L   | 99     |
| 16) Methylene chloride         | 2.69 | 84  | 3648  | 0.546 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 8102  | 0.495 ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 2.97 | 96  | 3232  | 0.507 ug/L   | 85     |
| 19) 1,1-Dichloroethane         | 3.43 | 63  | 6318  | 0.504 ug/L   | 96     |
| 21) 2-Butanone                 | 4.28 | 43  | 9986  | 4.757 ug/L # | 73     |
| 22) cis-1,2-Dichloroethene     | 4.21 | 96  | 3379  | 0.488 ug/L   | 96     |
| 23) Bromochloromethane         | 4.54 | 128 | 1277  | 0.415 ug/L # | 79     |
| 25) Chloroform                 | 4.67 | 83  | 5922  | 0.465 ug/L   | 96     |
| 27) 1,2-Dichloroethane         | 5.40 | 62  | 4304  | 0.493 ug/L # | 92     |
| 29) 1,1,1-Trichloroethane      | 4.91 | 97  | 5359  | 0.476 ug/L   | 99     |
| 30) Cyclohexane                | 4.98 | 56  | 4972  | 0.477 ug/L   | 97     |
| 31) Carbon tetrachloride       | 5.12 | 117 | 4907  | 0.479 ug/L   | 96     |
| 33) Benzene                    | 5.38 | 78  | 12694 | 0.486 ug/L   | 100    |
| 34) Trichloroethene            | 6.18 | 95  | 3435  | 0.480 ug/L   | 94     |
| 35) Methylcyclohexane          | 6.41 | 83  | 4802  | 0.451 ug/L   | 95     |
| 37) 1,2-Dichloropropane        | 6.43 | 63  | 3561  | 0.508 ug/L # | 87     |
| 38) Bromodichloromethane       | 6.75 | 83  | 4531  | 0.490 ug/L   | 94     |
| 39) cis-1,3-Dichloropropene    | 7.27 | 75  | 4493  | 0.440 ug/L   | 99     |
| 40) 4-Methyl-2-pentanone       | 7.46 | 43  | 21199 | 4.390 ug/L   | 98     |

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ALS Vial : 2 Sample Multiplier: 1

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MSVOA\_U  
ClientSampleId :  
VSTD0.501

Quant Time: Jun 28 01:35:31 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Jun 28 01:32:47 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 42) Toluene                    | 7.63  | 91   | 12726    | 0.456 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 3486     | 0.419 | ug/L   | 87       |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 2348     | 0.478 | ug/L   | 94       |
| 47) Tetrachloroethene          | 8.22  | 164  | 2606     | 0.453 | ug/L   | 92       |
| 48) 2-Hexanone                 | 8.37  | 43   | 14380    | 4.162 | ug/L   | 97       |
| 49) Dibromochloromethane       | 8.47  | 129  | 2790     | 0.448 | ug/L   | 99       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 2295     | 0.479 | ug/L # | 99       |
| 51) Chlorobenzene              | 9.12  | 112  | 8675     | 0.471 | ug/L   | 97       |
| 52) Ethylbenzene               | 9.25  | 91   | 13832    | 0.450 | ug/L   | 97       |
| 53) m,p-Xylene                 | 9.37  | 106  | 4917     | 0.441 | ug/L   | 96       |
| 54) o-Xylene                   | 9.77  | 106  | 4409     | 0.406 | ug/L   | 98       |
| 55) Styrene                    | 9.79  | 104  | 7377     | 0.401 | ug/L   | 96       |
| 56) Isopropylbenzene           | 10.16 | 105  | 12510    | 0.424 | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 2880     | 0.452 | ug/L   | 91       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 2198     | 0.469 | ug/L   | 99       |
| 61) Bromoform                  | 9.96  | 173  | 1595     | 0.457 | ug/L # | 94       |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 7008     | 0.488 | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 7620     | 0.509 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 6718     | 0.483 | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 350      | 0.366 | ug/L # | 85       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 5126     | 0.448 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene     | 13.51 | 180  | 2560     | 0.313 | ug/L # | 85       |
| 69) Naphthalene                | 13.76 | 128  | 1492     | 0.137 | ug/L # | 81       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 2923     | 0.365 | ug/L # | 85       |

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

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```
ALS Vial      : 2      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
VSTD0.501

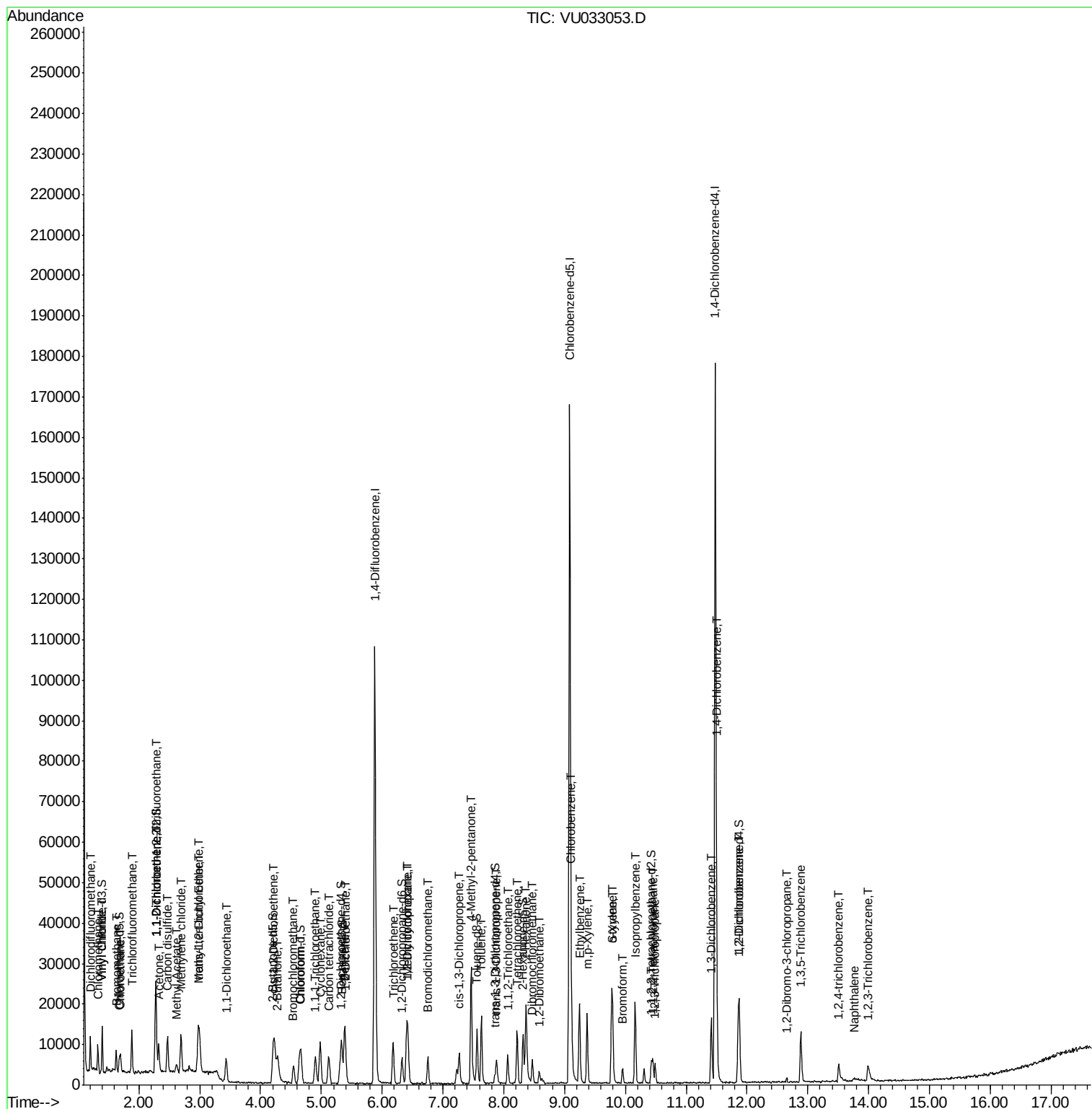
Quant Time: Jun 28 01:35:31 2019

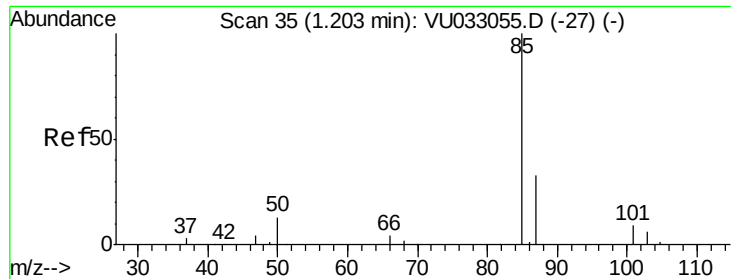
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_U\METHOD\SOMUTR062719WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Jun 28 01:32:47 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.486 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

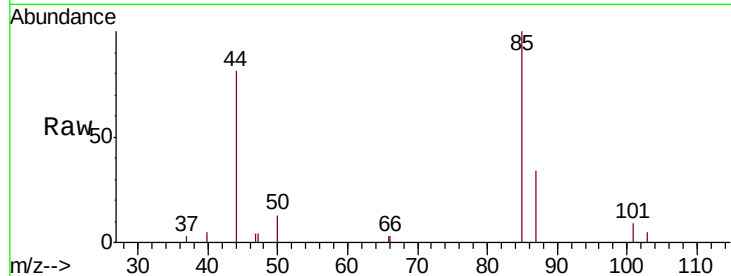
VSTD0.501

Tgt Ion: 85 Resp: 4384

Ion Ratio Lower Upper

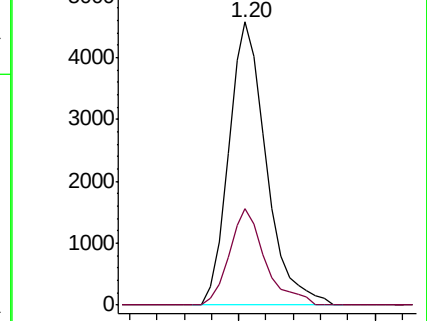
85 100

87 32.7 25.6 38.4

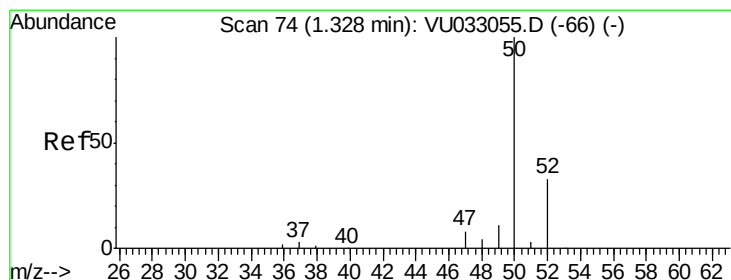
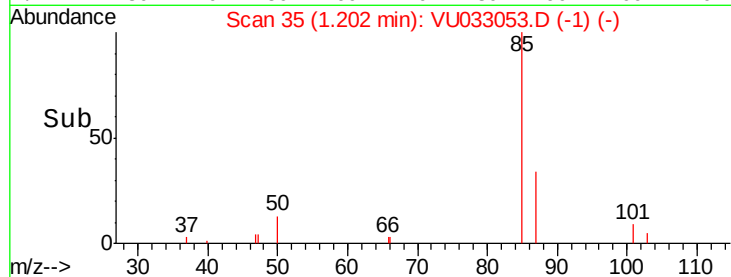


Abundance Ion 85.00 (84.70 to 85.70): VU033053.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU033053.D (-27) (-)



Time-->



#3

Chloromethane

Concen: 0.517 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU033053.D

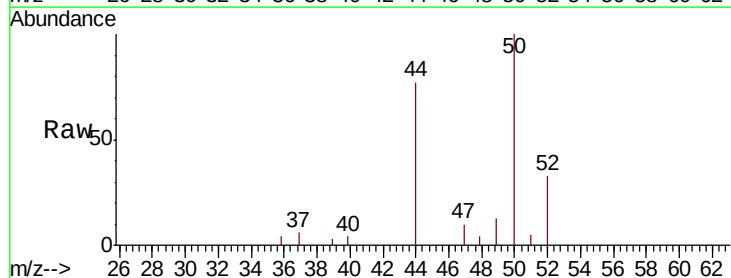
Acq: 27 Jun 2019 09:41

Tgt Ion: 50 Resp: 4388

Ion Ratio Lower Upper

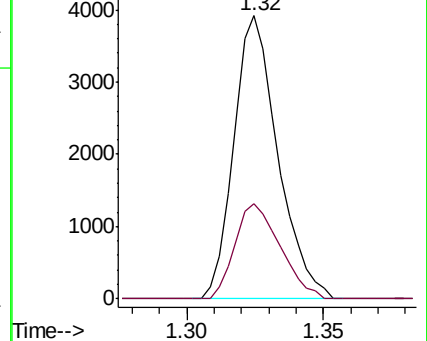
50 100

52 33.4 22.8 42.4

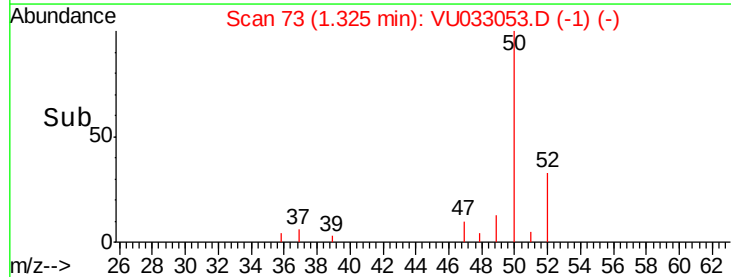


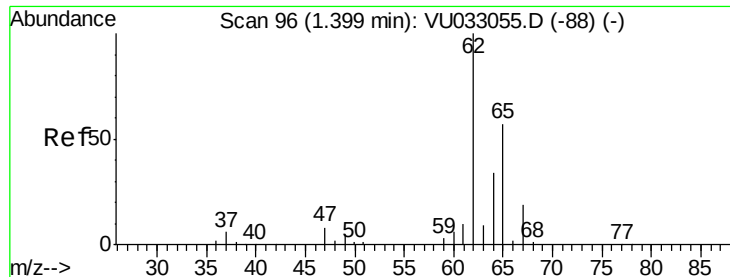
Abundance Ion 50.05 (49.75 to 50.75): VU033053.D (-66) (-)

Ion 52.05 (51.75 to 52.75): VU033053.D (-66) (-)



Time-->





#5

Vinyl chloride

Concen: 0.516 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

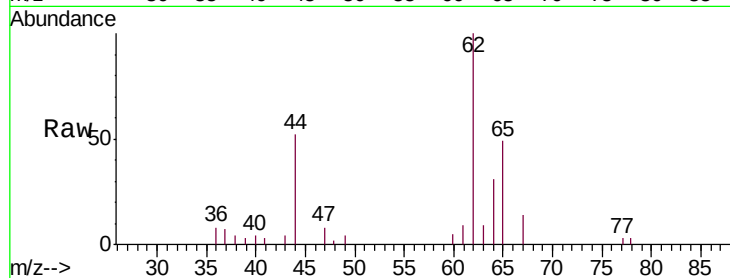
VSTD0.501

Tgt Ion: 62 Resp: 4419

Ion Ratio Lower Upper

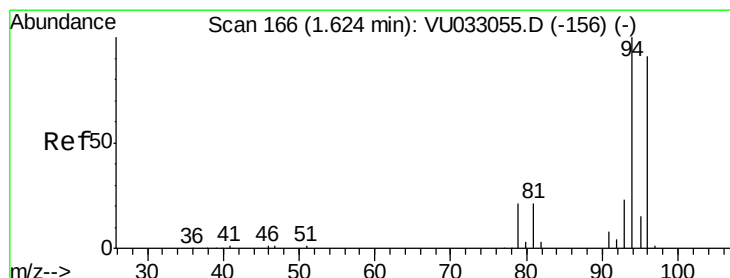
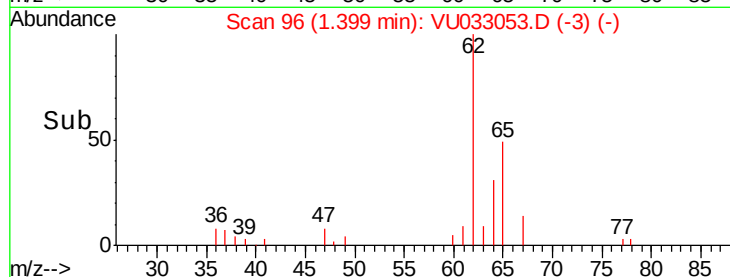
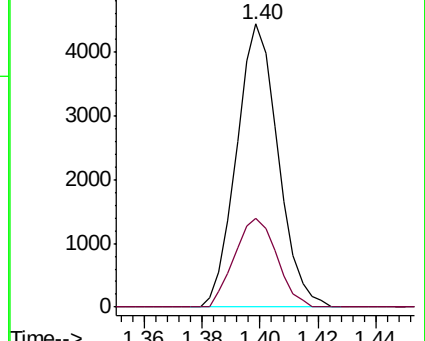
62 100

64 31.4 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU033055.D (-88) (-)

Ion 64.10 (63.80 to 64.80): VU033055.D (-88) (-)



#6

Bromomethane

Concen: 0.495 ug/L

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU033053.D

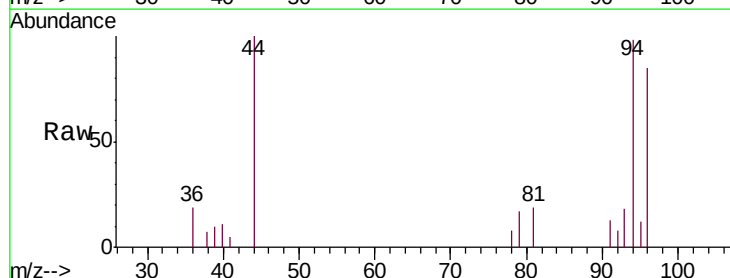
Acq: 27 Jun 2019 09:41

Tgt Ion: 94 Resp: 2221

Ion Ratio Lower Upper

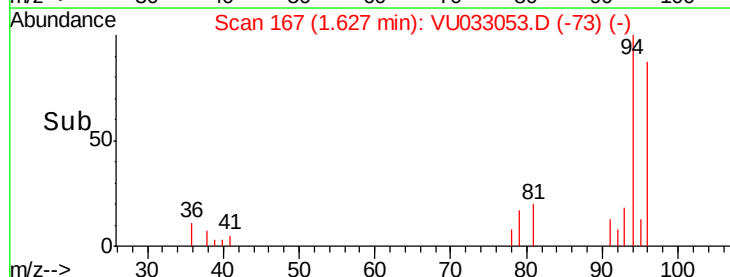
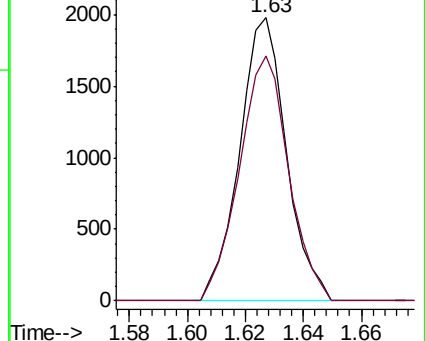
94 100

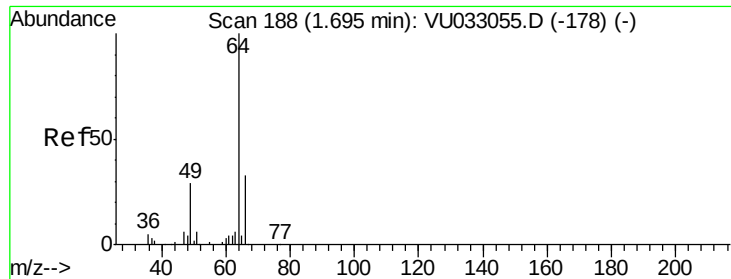
96 86.6 64.0 119.0



Abundance Ion 94.00 (93.70 to 94.70): VU033055.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU033055.D (-156) (-)

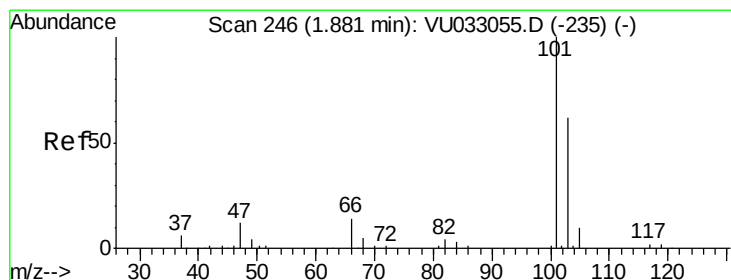
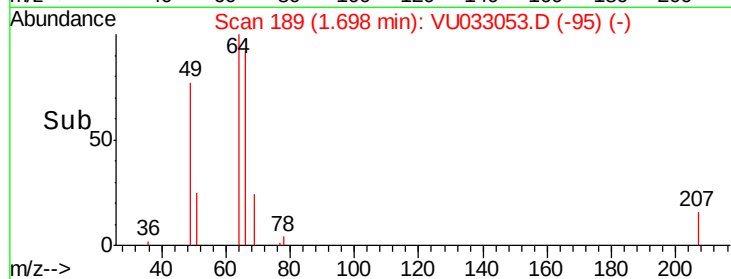
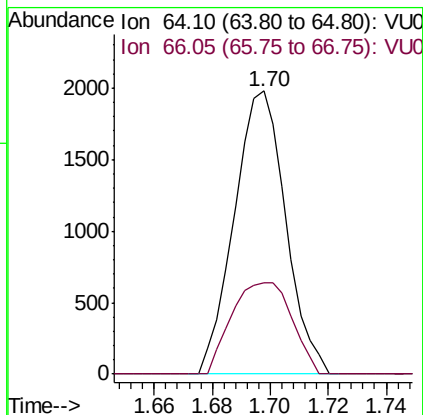
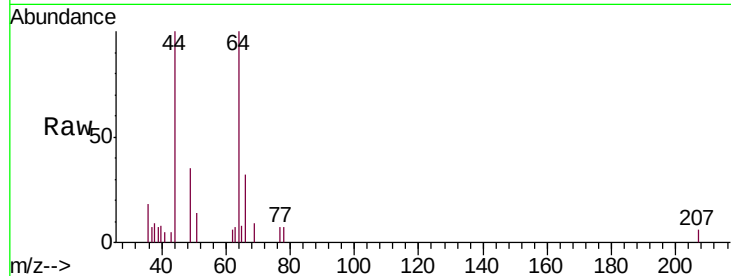




#8  
Chloroethane  
Concen: 0.491 ug/L  
RT: 1.70 min Scan# 189  
Delta R.T. 0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

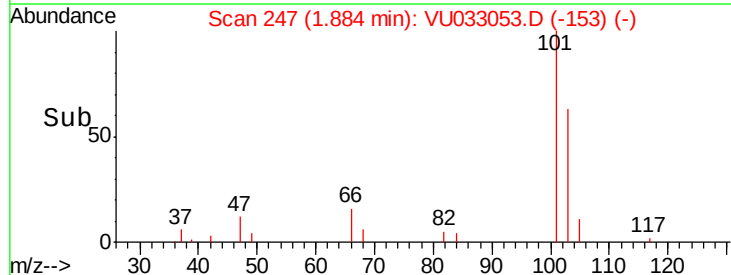
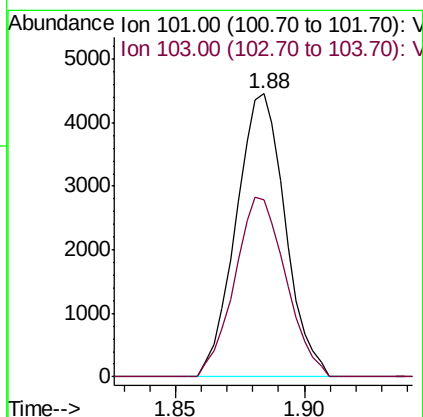
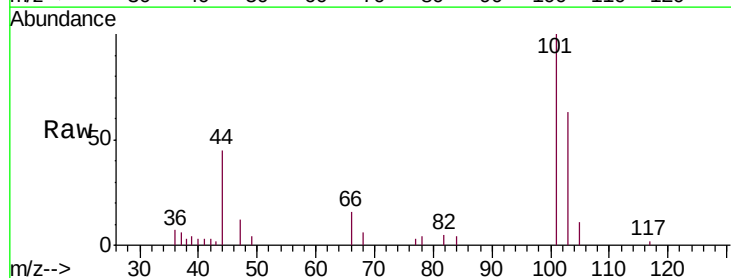
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.501

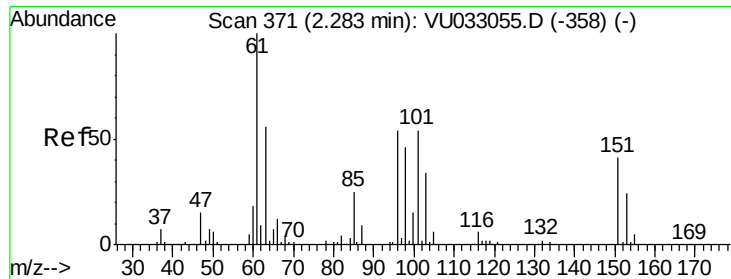
Tgt Ion: 64 Resp: 2438  
Ion Ratio Lower Upper  
64 100  
66 32.5 22.9 42.5



#9  
Trichlorofluoromethane  
Concen: 0.486 ug/L  
RT: 1.88 min Scan# 247  
Delta R.T. 0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Tgt Ion: 101 Resp: 5899  
Ion Ratio Lower Upper  
101 100  
103 66.2 50.1 75.1





#10

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

Concen: 0.505 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.501

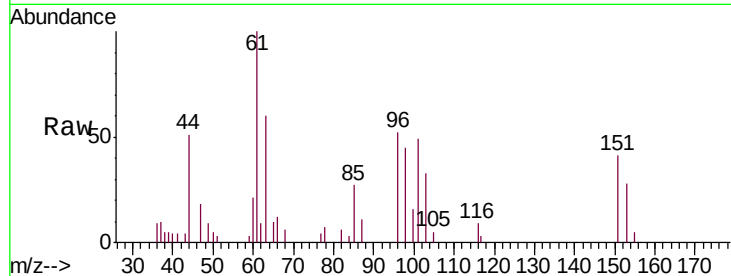
Tgt Ion: 101 Resp: 3175

Ion Ratio Lower Upper

101 100

85 48.8 37.1 55.7

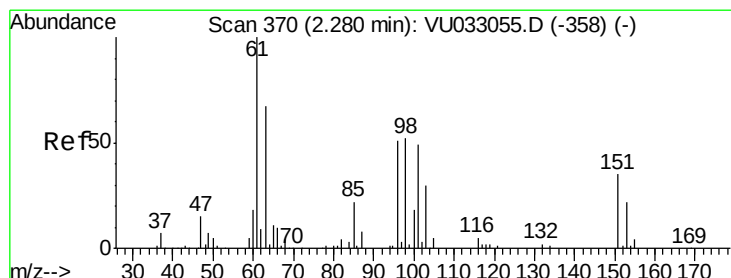
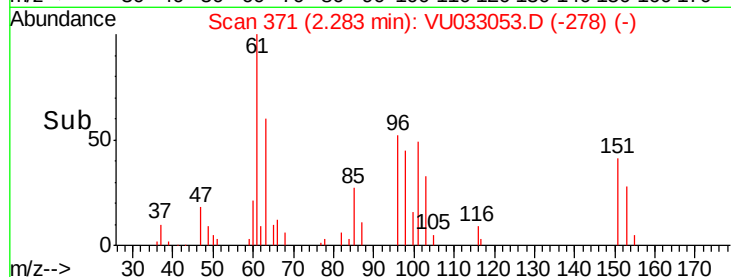
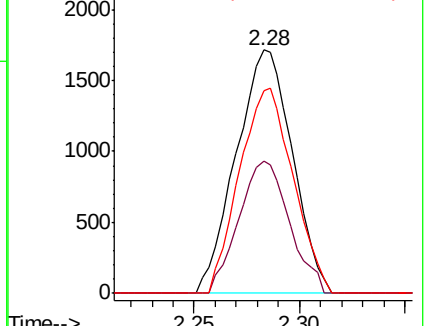
151 80.3 61.0 91.4



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: 0.516 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

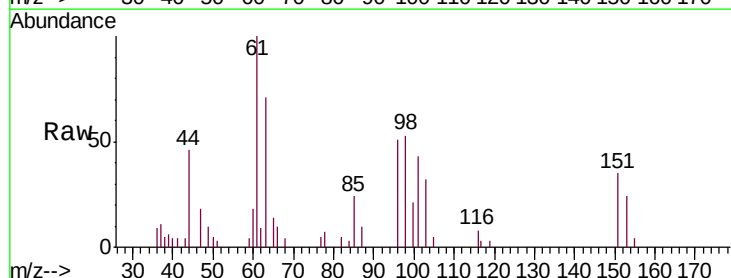
Tgt Ion: 96 Resp: 3005

Ion Ratio Lower Upper

96 100

61 196.4 137.6 255.6

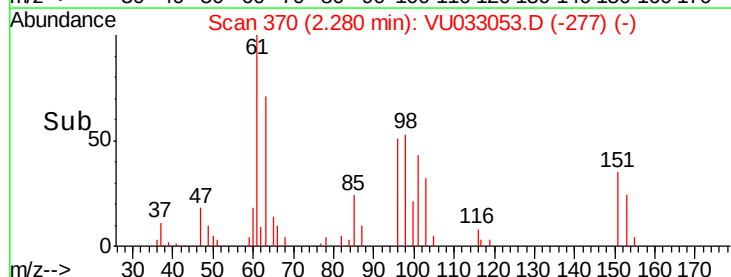
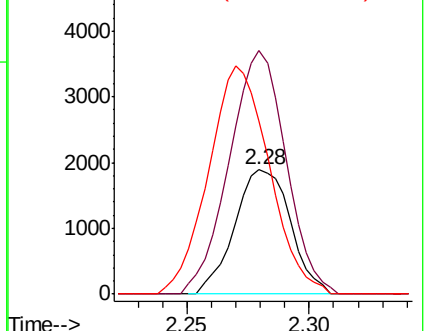
63 140.2 94.4 175.2

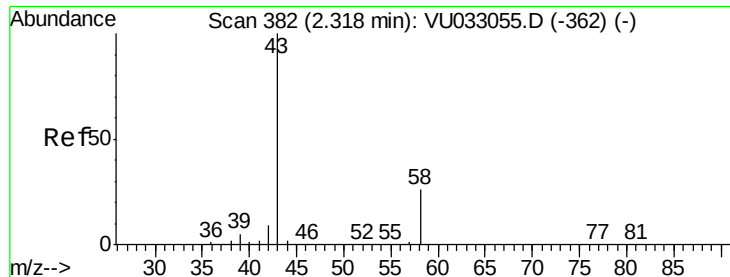


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.201 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

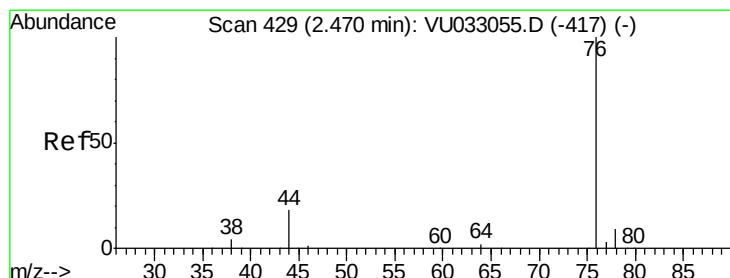
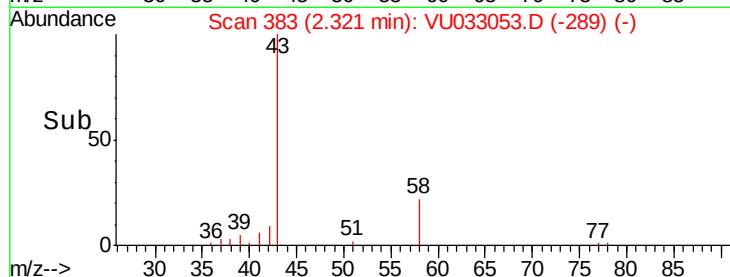
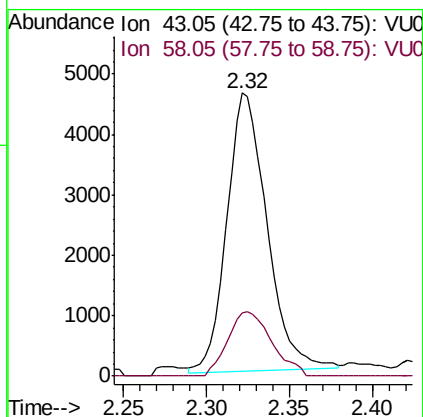
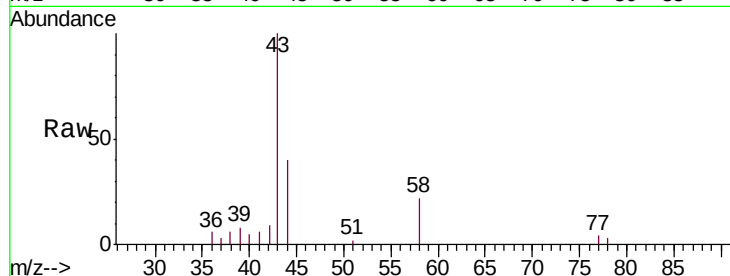
VSTD0.501

Tgt Ion: 43 Resp: 7755

Ion Ratio Lower Upper

43 100

58 25.2 0.0 51.8



#14

Carbon disulfide

Concen: 0.517 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU033053.D

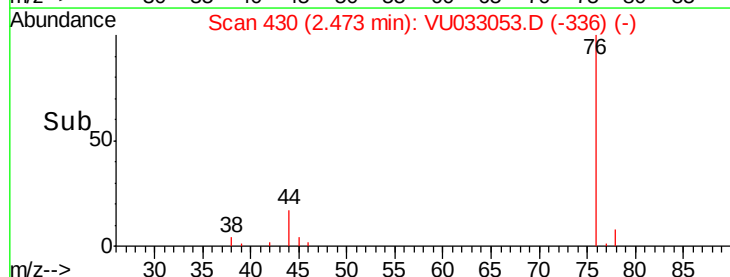
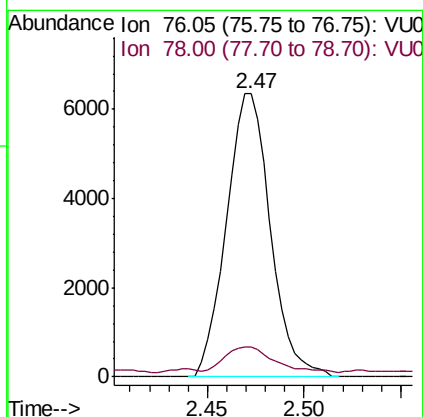
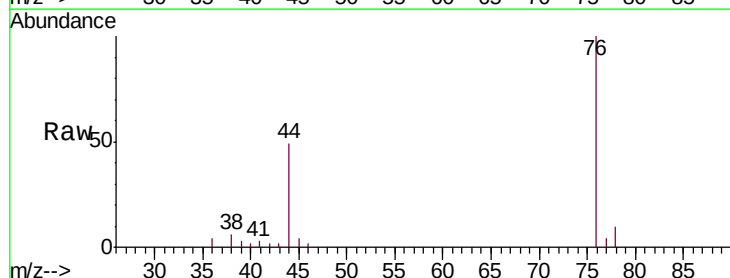
Acq: 27 Jun 2019 09:41

Tgt Ion: 76 Resp: 10034

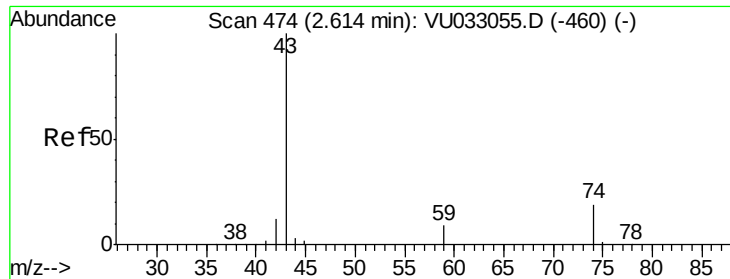
Ion Ratio Lower Upper

76 100

78 10.4 7.4 11.2







#15

Methyl Acetate

Concen: 0.517 ug/L

RT: 2.62 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

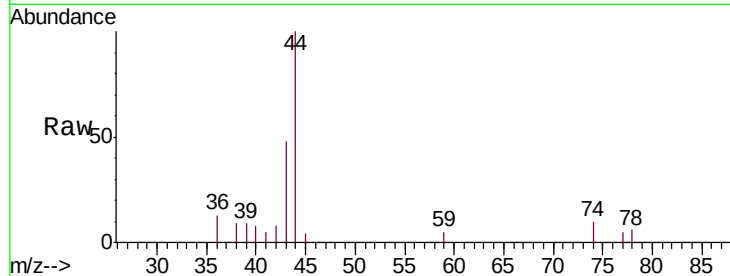
VSTD0.501

Tgt Ion: 43 Resp: 1784

Ion Ratio Lower Upper

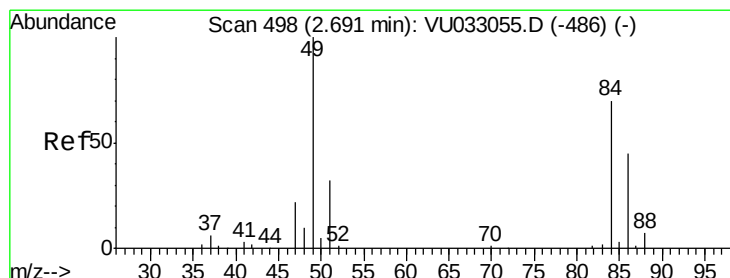
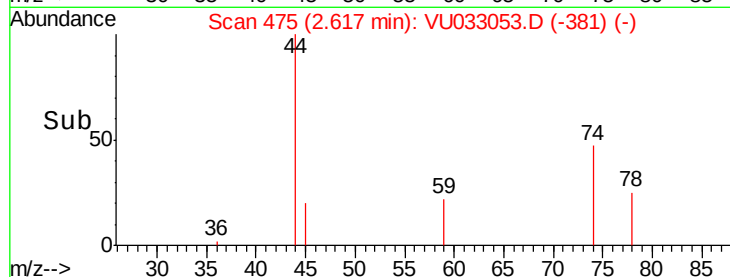
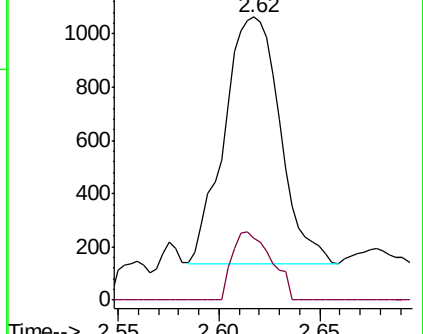
43 100

74 19.6 16.1 24.1



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 0.546 ug/L

RT: 2.69 min Scan# 498

Delta R.T. -0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

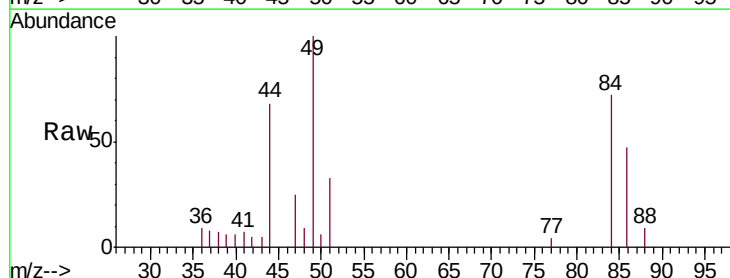
Tgt Ion: 84 Resp: 3648

Ion Ratio Lower Upper

84 100

86 65.1 44.7 82.9

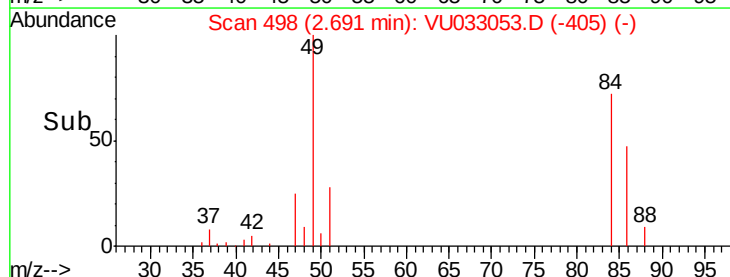
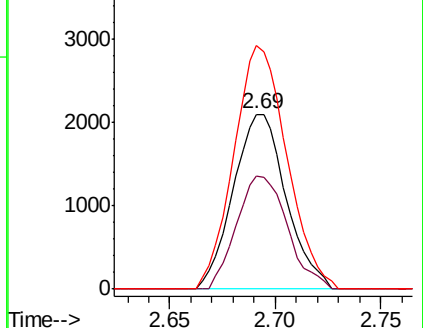
49 139.5 99.7 185.1

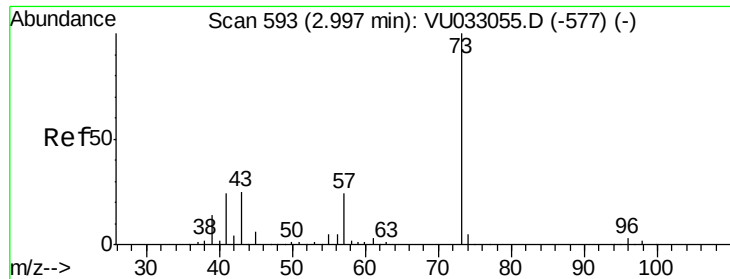


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

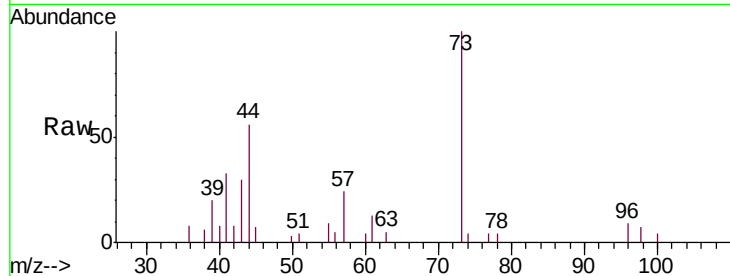




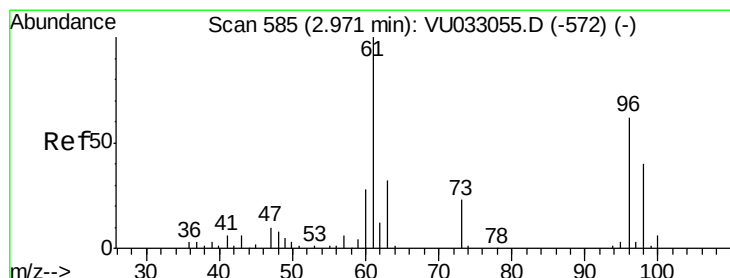
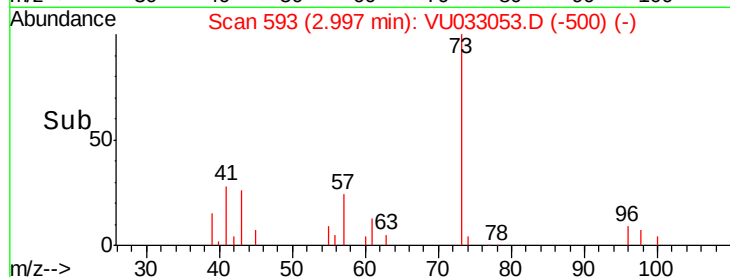
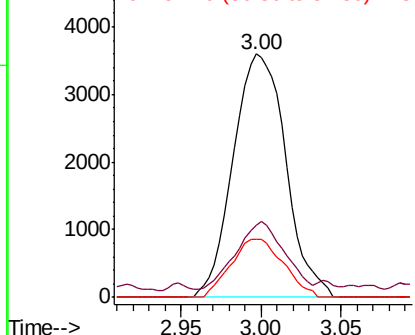
#17  
Methyl tert-butyl Ether  
Concen: 0.495 ug/L  
RT: 3.00 min Scan# 593  
Delta R.T. -0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.501

Tgt Ion: 73 Resp: 8102  
Ion Ratio Lower Upper  
73 100  
43 26.2 20.2 30.2  
57 23.7 18.5 27.7

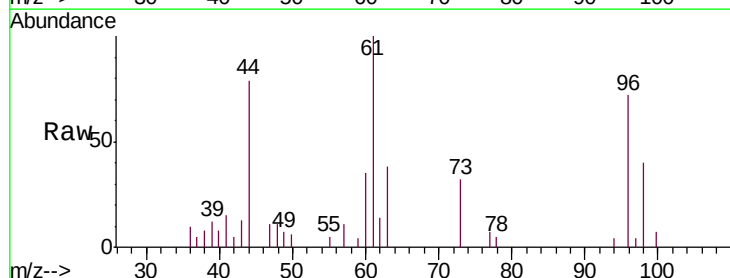


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

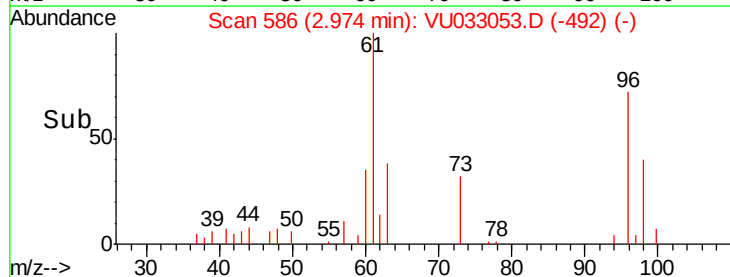
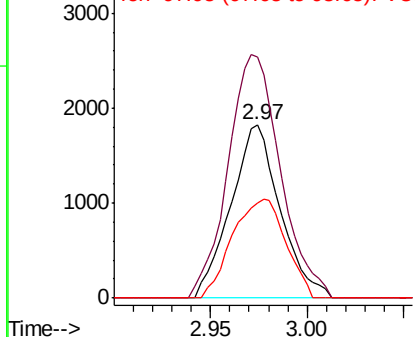


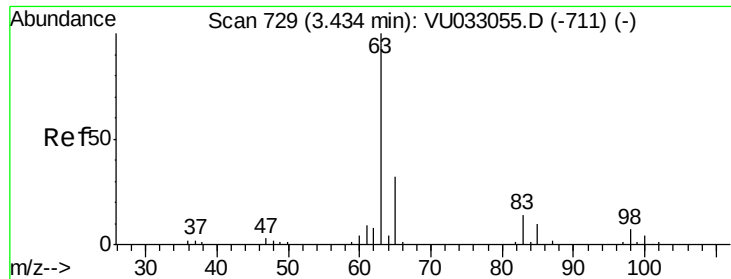
#18  
trans-1,2-Dichloroethene  
Concen: 0.507 ug/L  
RT: 2.97 min Scan# 586  
Delta R.T. 0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Tgt Ion: 96 Resp: 3232  
Ion Ratio Lower Upper  
96 100  
61 139.1 112.2 208.4  
98 55.1 45.4 84.4



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

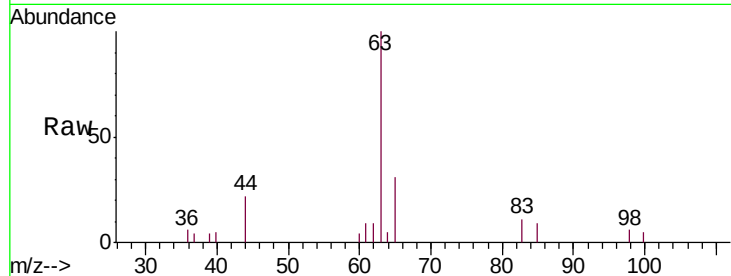




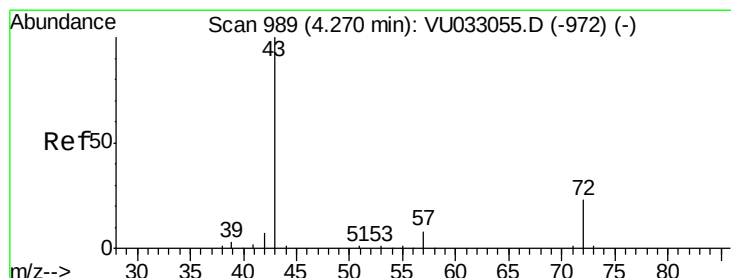
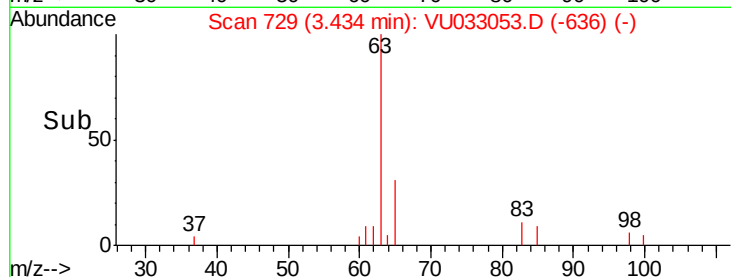
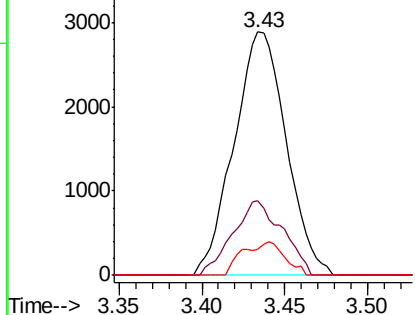
#19  
 1,1-Dichloroethane  
 Concen: 0.504 ug/L  
 RT: 3.43 min Scan# 729  
 Delta R.T. -0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.501

Tgt Ion: 63 Resp: 6318  
 Ion Ratio Lower Upper  
 63 100  
 65 30.8 22.7 42.1  
 83 10.8 9.6 17.8

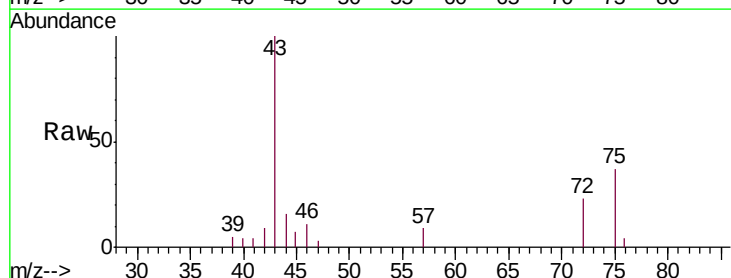


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

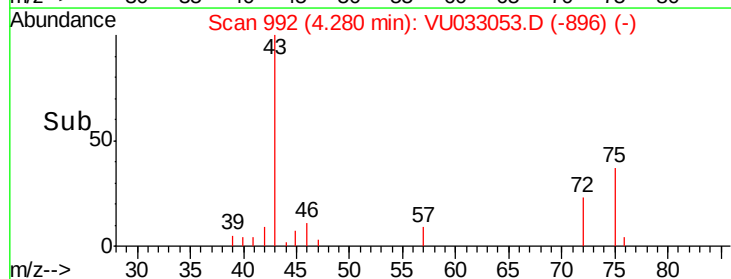
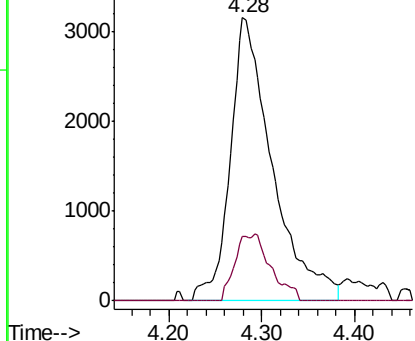


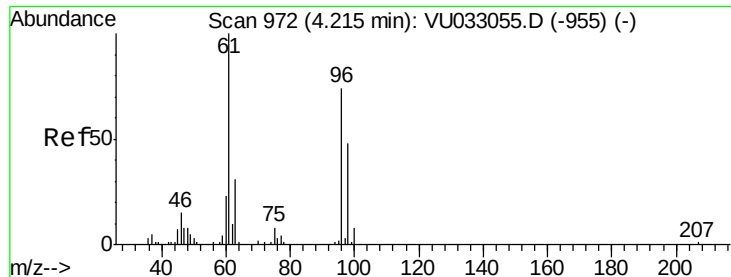
#21  
 2-Butanone  
 Concen: 4.757 ug/L  
 RT: 4.28 min Scan# 992  
 Delta R.T. 0.01 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Tgt Ion: 43 Resp: 9986  
 Ion Ratio Lower Upper  
 43 100  
 72 9.7 11.5 34.5#



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



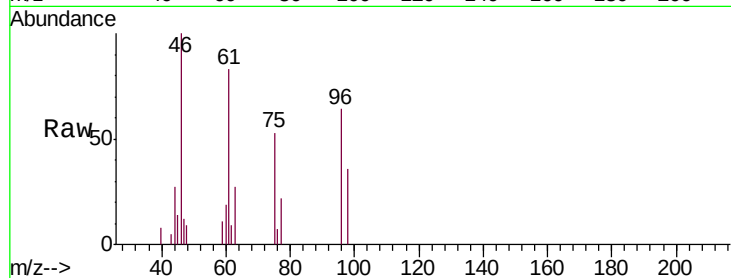


#22

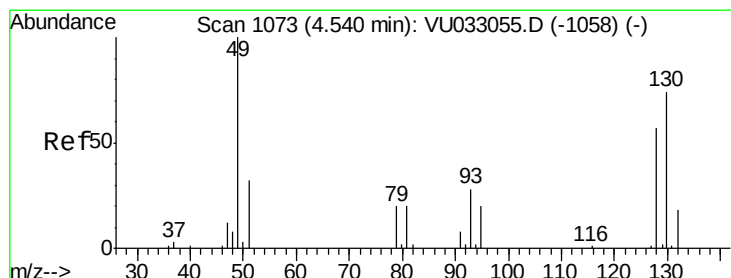
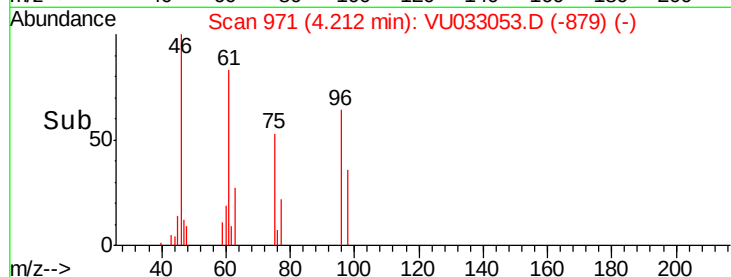
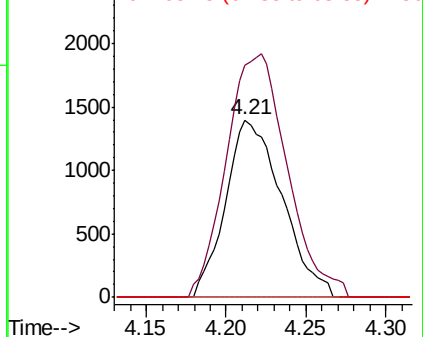
cis-1,2-Dichloroethene  
Concen: 0.488 ug/L  
RT: 4.21 min Scan# 971  
Delta R.T. -0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.501

Tgt Ion: 96 Resp: 3379  
Ion Ratio Lower Upper  
96 100  
61 130.9 94.6 175.8  
68 0.0 0.0 0.0



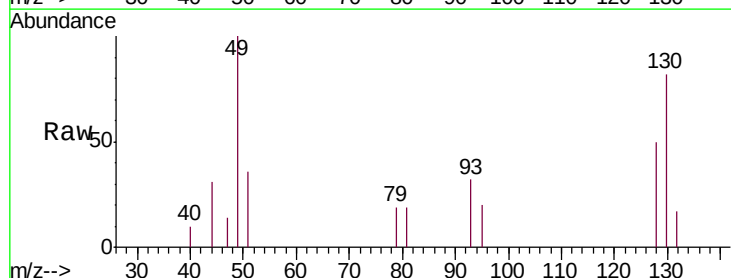
Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 68.15 (67.85 to 68.85): VU0



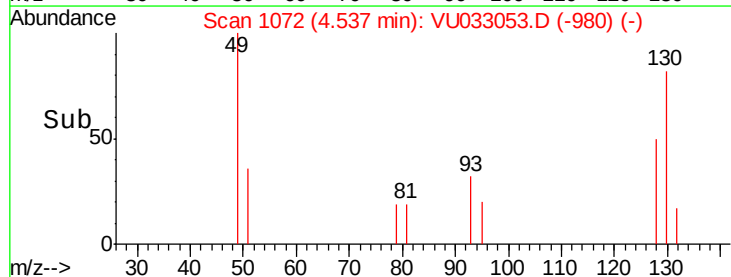
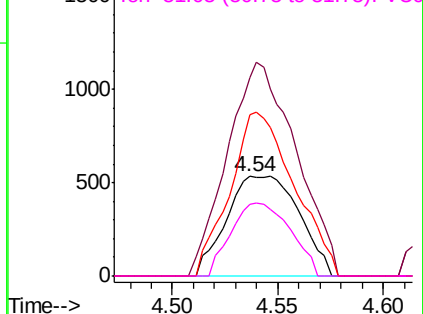
#23

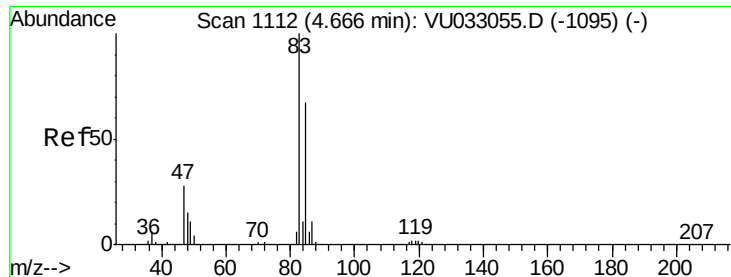
Bromochloromethane  
Concen: 0.415 ug/L  
RT: 4.54 min Scan# 1072  
Delta R.T. -0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Tgt Ion: 128 Resp: 1277  
Ion Ratio Lower Upper  
128 100  
49 198.7 123.3 228.9  
130 162.4 90.9 168.7  
51 72.1 45.6 68.4#



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

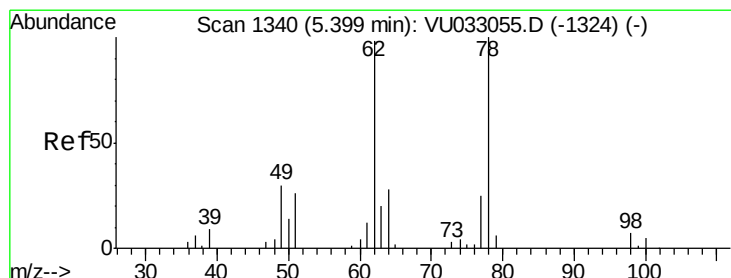
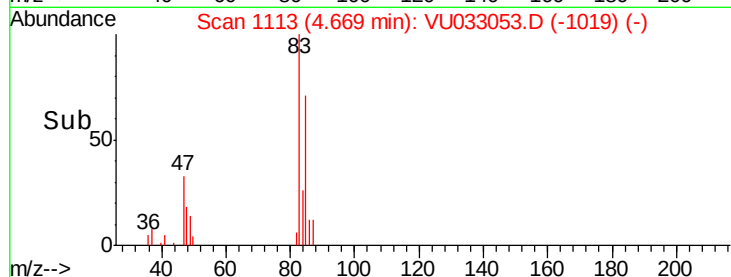
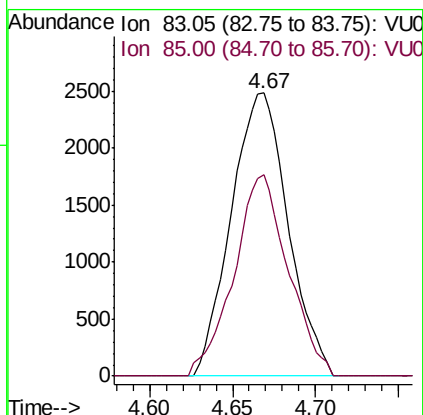
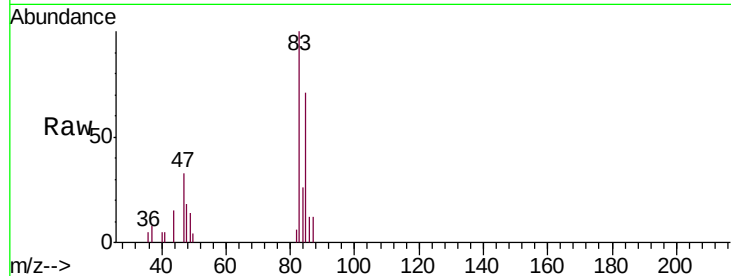




#25  
Chloroform  
Concen: 0.465 ug/L  
RT: 4.67 min Scan# 1113  
Delta R.T. 0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

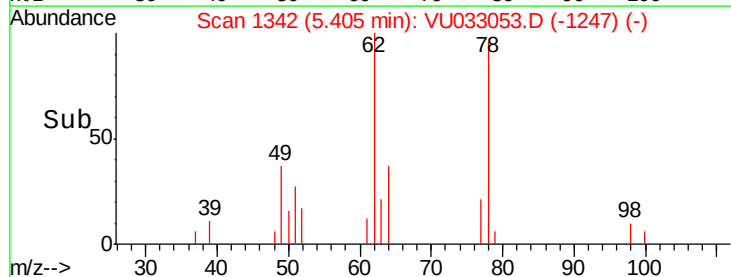
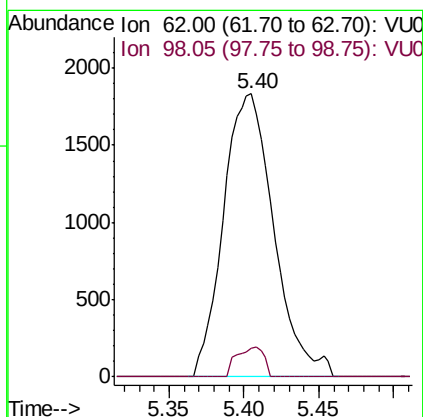
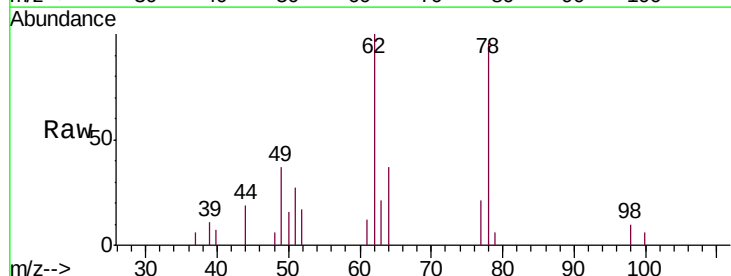
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.501

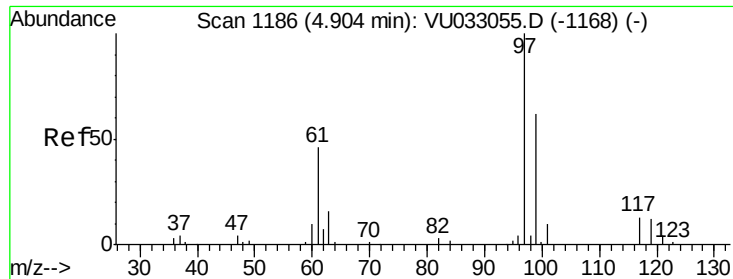
Tgt Ion: 83 Resp: 5922  
Ion Ratio Lower Upper  
83 100  
85 71.1 47.3 87.8



#27  
1,2-Dichloroethane  
Concen: 0.493 ug/L  
RT: 5.40 min Scan# 1342  
Delta R.T. 0.01 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Tgt Ion: 62 Resp: 4304  
Ion Ratio Lower Upper  
62 100  
98 10.0 5.8 8.6#

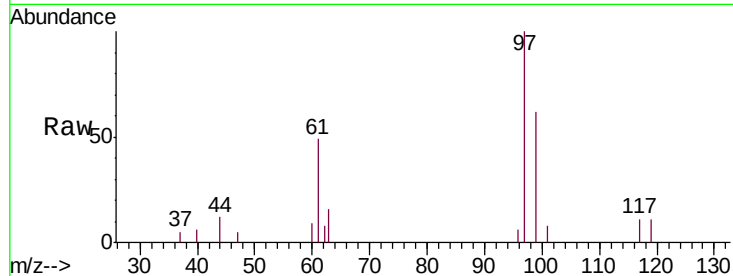




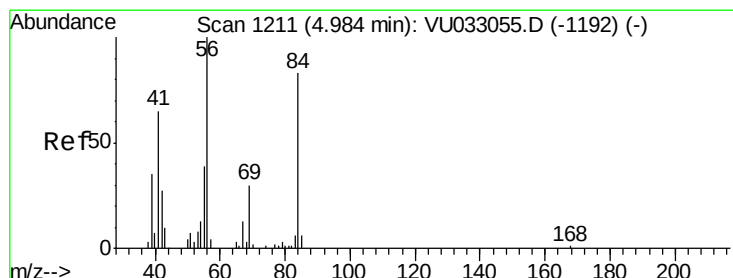
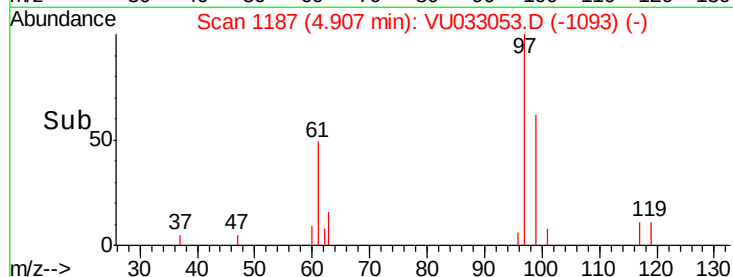
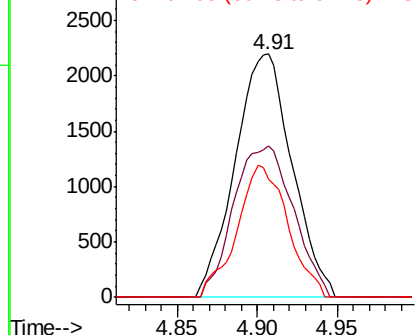
#29  
 1,1,1-Trichloroethane  
 Concen: 0.476 ug/L  
 RT: 4.91 min Scan# 1187  
 Delta R.T. 0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.501

Tgt Ion: 97 Resp: 5359  
 Ion Ratio Lower Upper  
 97 100  
 99 65.2 51.4 77.2  
 61 48.3 38.1 57.1

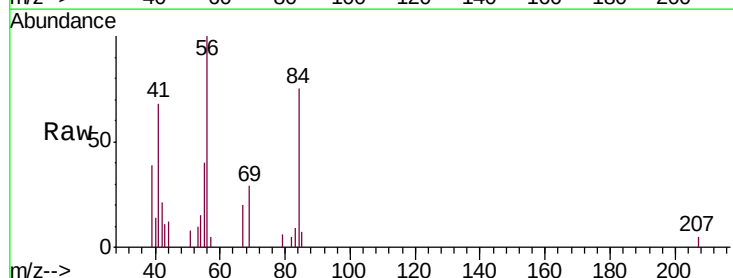


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

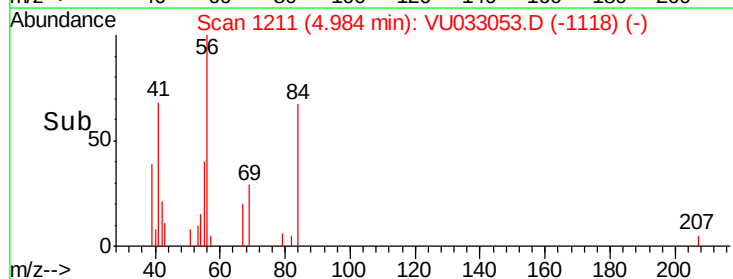
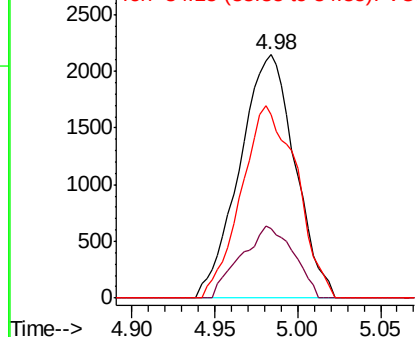


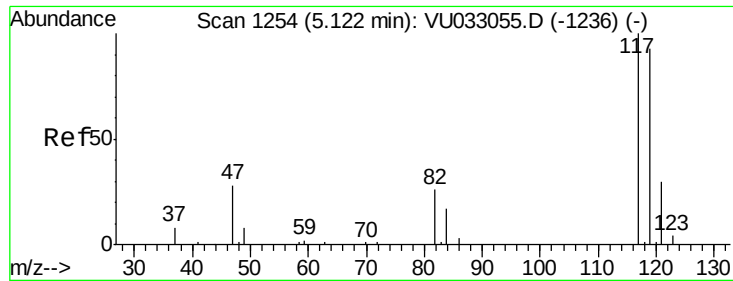
#30  
 Cyclohexane  
 Concen: 0.477 ug/L  
 RT: 4.98 min Scan# 1211  
 Delta R.T. -0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Tgt Ion: 56 Resp: 4972  
 Ion Ratio Lower Upper  
 56 100  
 69 28.1 23.7 35.5  
 84 79.5 65.8 98.8



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





#31

Carbon tetrachloride

Concen: 0.479 ug/L

RT: 5.12 min Scan# 1253

Delta R.T. -0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

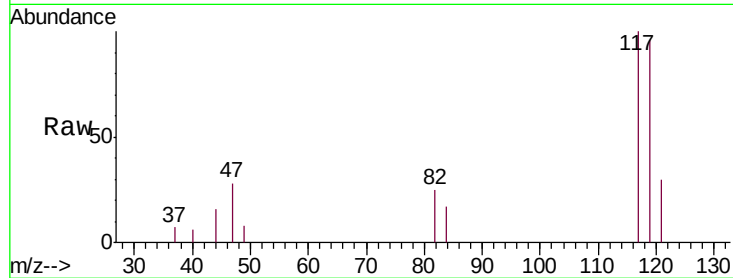
VSTD0.501

Tgt Ion:117 Resp: 4907

Ion Ratio Lower Upper

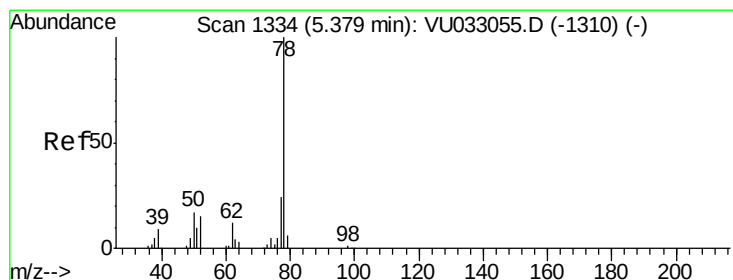
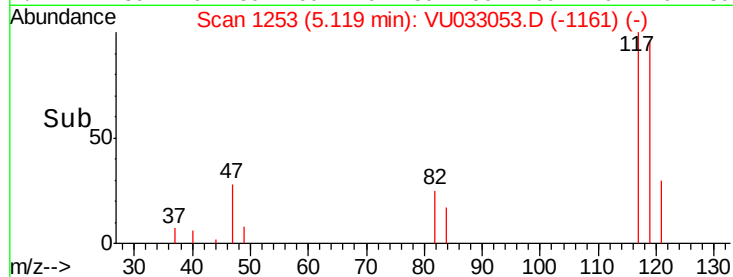
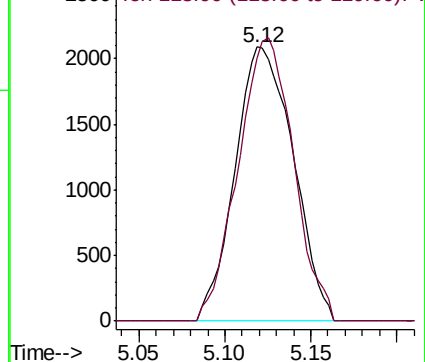
117 100

119 98.3 75.5 113.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.486 ug/L

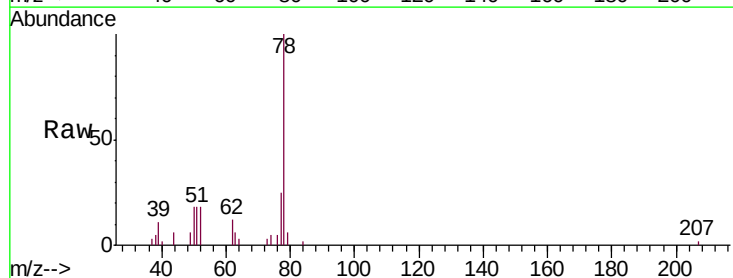
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

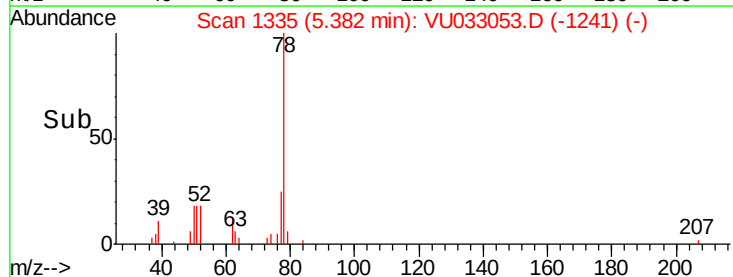
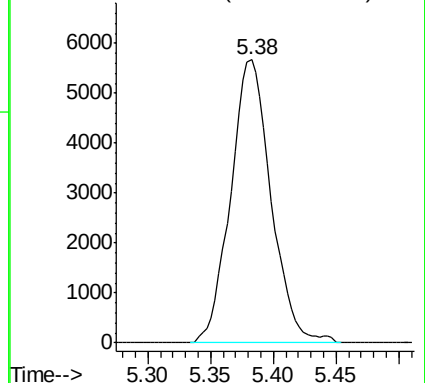
Lab File: VU033053.D

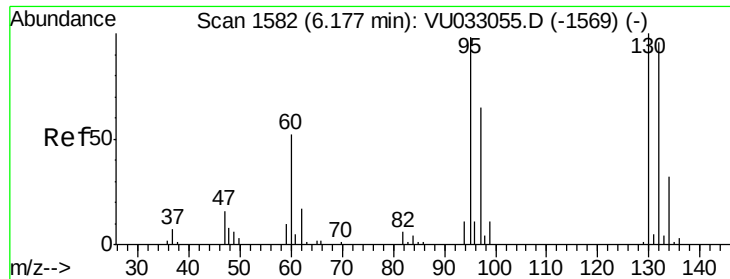
Acq: 27 Jun 2019 09:41

Tgt Ion: 78 Resp: 12694



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.480 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.501

Tgt Ion: 95 Resp: 3435

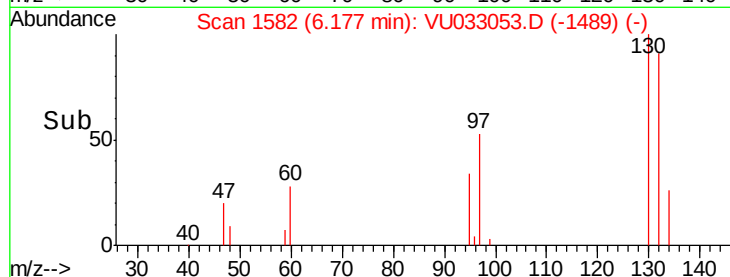
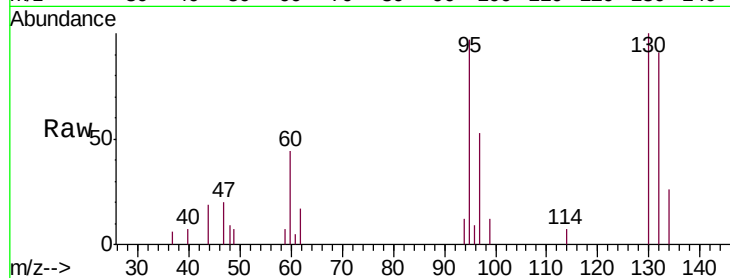
Ion Ratio Lower Upper

95 100

97 53.9 46.0 85.4

132 93.0 68.6 127.4

130 102.6 71.1 132.1

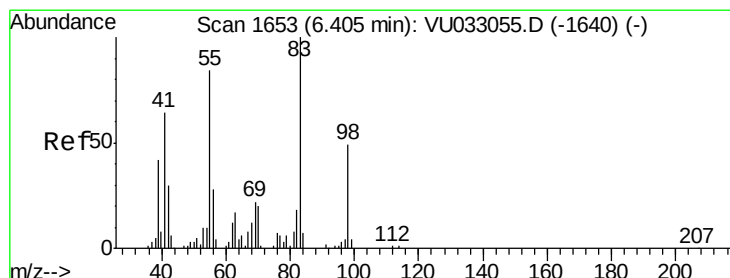
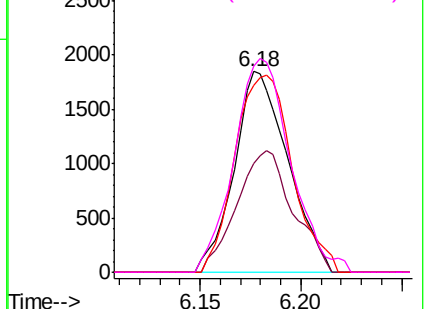


Abundance Ion 95.00 (94.70 to 95.70): VU033053.D (-1489) (-)

Ion 96.95 (96.65 to 97.65): VU033053.D (-1489) (-)

Ion 131.95 (131.65 to 132.65): VU033053.D (-1489) (-)

Ion 129.95 (129.65 to 130.65): VU033053.D (-1489) (-)



#35

Methylcyclohexane

Concen: 0.451 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

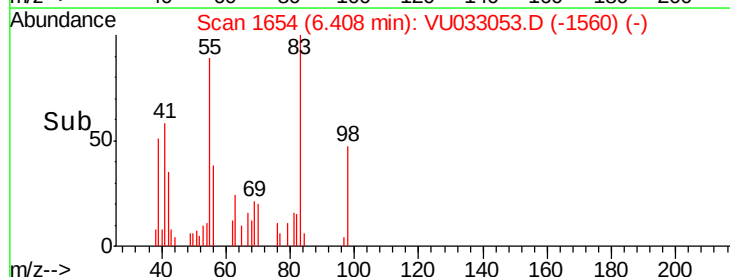
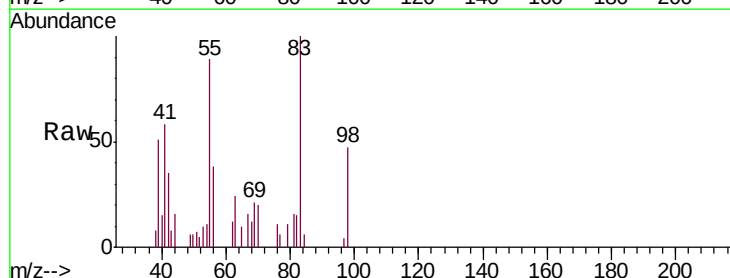
Tgt Ion: 83 Resp: 4802

Ion Ratio Lower Upper

83 100

55 90.4 67.0 100.4

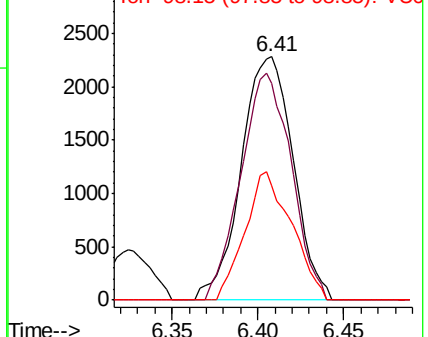
98 47.1 37.7 56.5



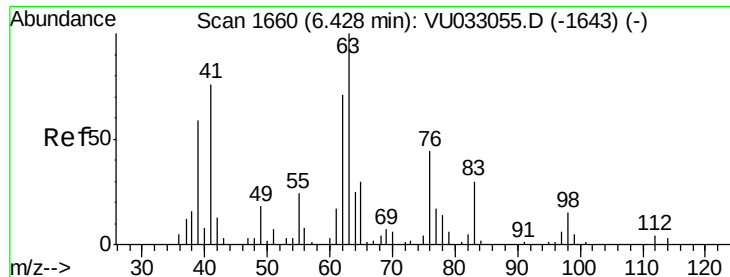
Abundance Ion 83.15 (82.85 to 83.85): VU033053.D (-1560) (-)

Ion 55.10 (54.80 to 55.80): VU033053.D (-1560) (-)

Ion 98.15 (97.85 to 98.85): VU033053.D (-1560) (-)



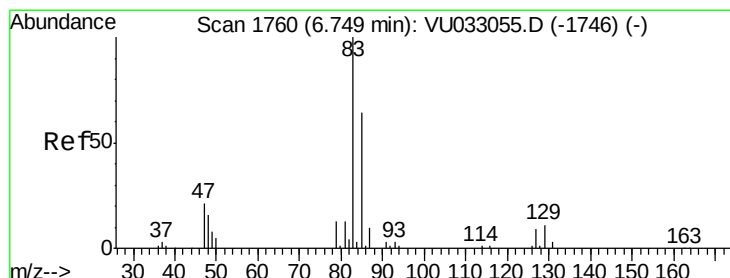
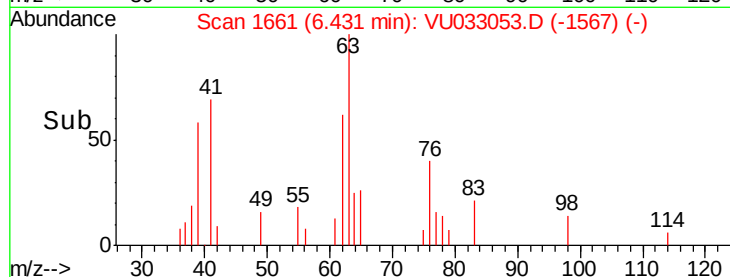
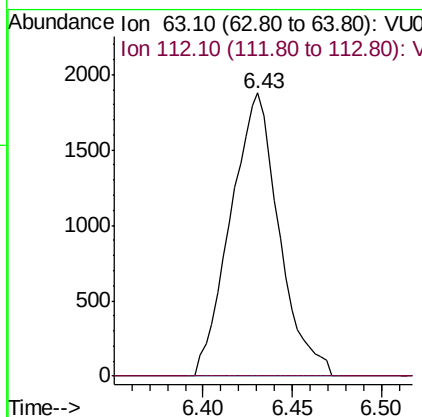
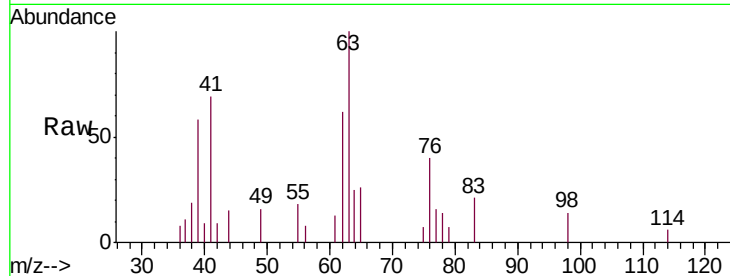




#37  
 1,2-Dichloropropane  
 Concen: 0.508 ug/L  
 RT: 6.43 min Scan# 1661  
 Delta R.T. 0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

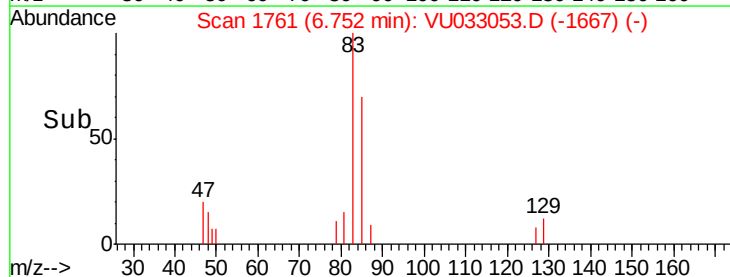
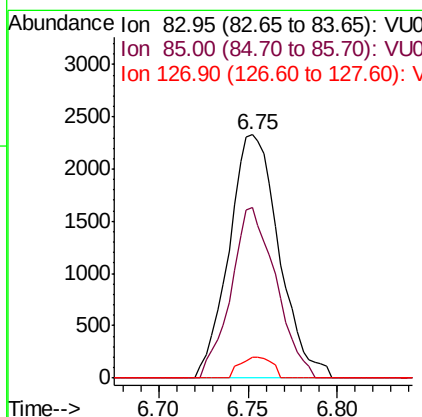
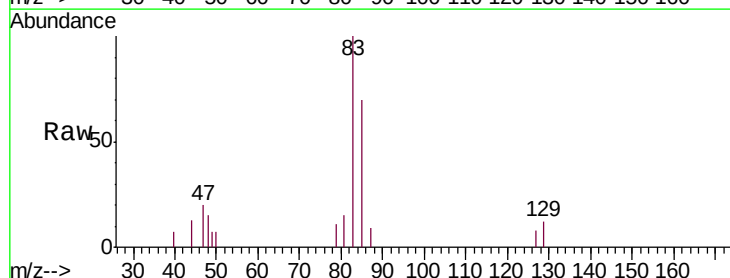
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.501

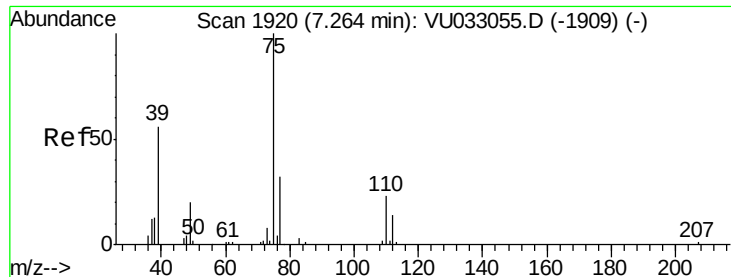
Tgt Ion: 63 Resp: 3561  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.5 5.3#



#38  
 Bromodichloromethane  
 Concen: 0.490 ug/L  
 RT: 6.75 min Scan# 1761  
 Delta R.T. 0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Tgt Ion: 83 Resp: 4531  
 Ion Ratio Lower Upper  
 83 100  
 85 70.0 45.1 83.9  
 127 8.3 6.9 10.3

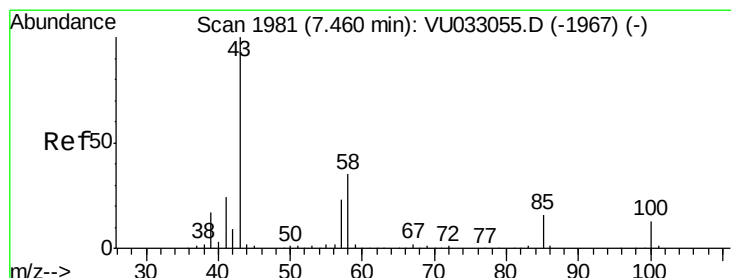
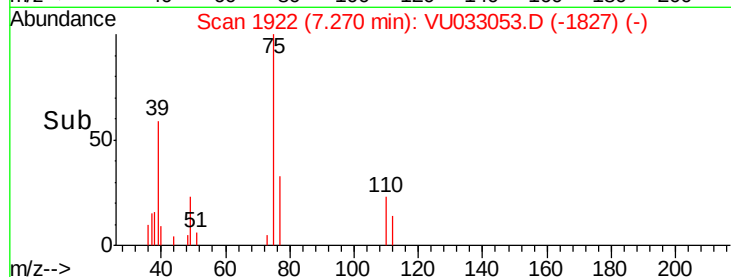
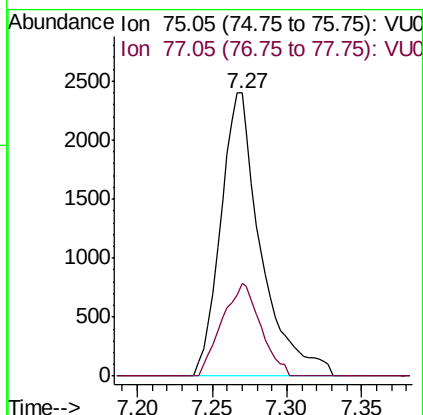
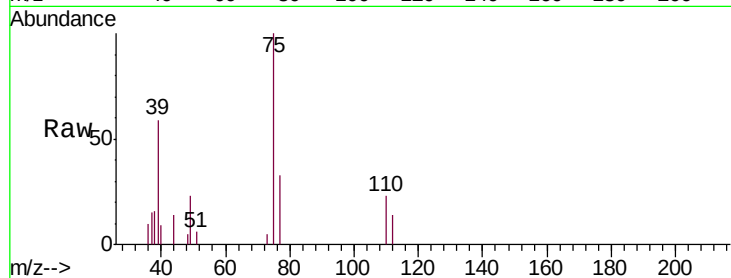




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.440 ug/L  
 RT: 7.27 min Scan# 1922  
 Delta R.T. 0.01 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

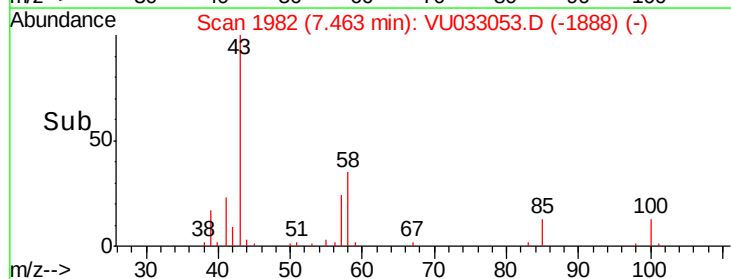
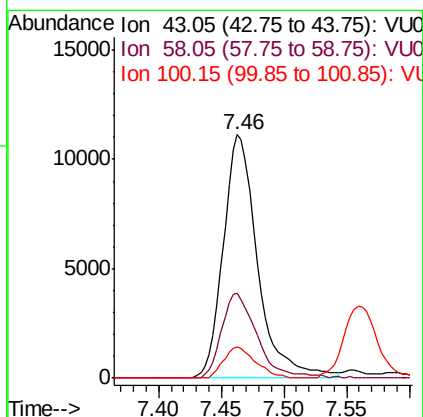
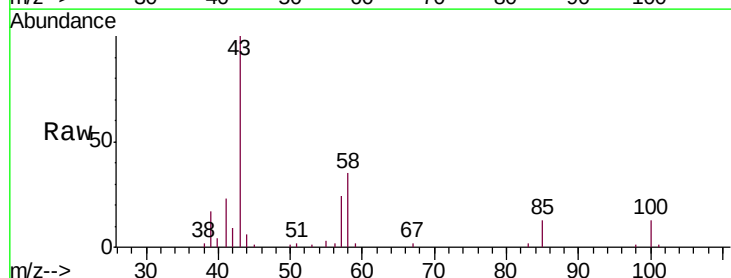
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.501

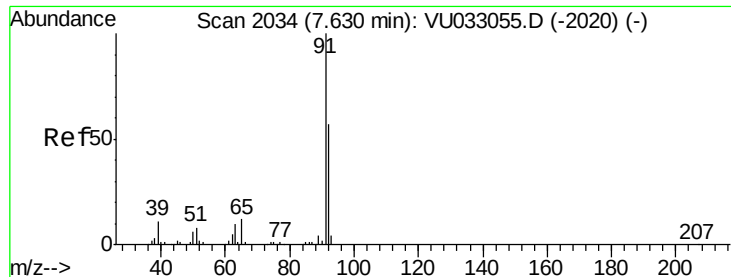
Tgt Ion: 75 Resp: 4493  
 Ion Ratio Lower Upper  
 75 100  
 77 32.7 22.6 42.0



#40  
 4-Methyl-2-pentanone  
 Concen: 4.390 ug/L  
 RT: 7.46 min Scan# 1982  
 Delta R.T. 0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Tgt Ion: 43 Resp: 21199  
 Ion Ratio Lower Upper  
 43 100  
 58 35.8 28.2 42.2  
 100 11.9 10.4 15.6





#42

Toluene

Concen: 0.456 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

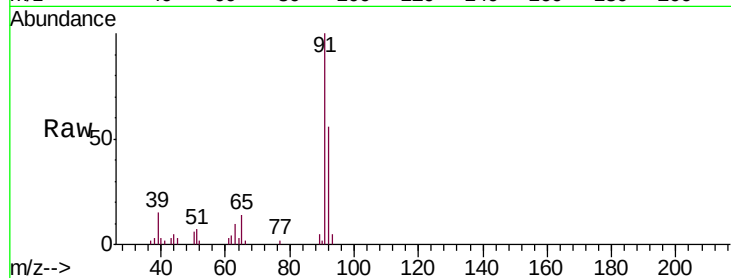
VSTD0.501

Tgt Ion: 91 Resp: 12726

Ion Ratio Lower Upper

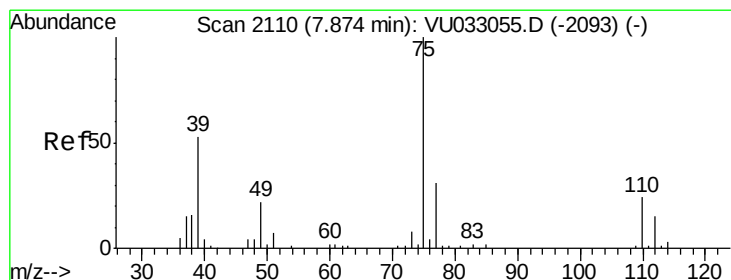
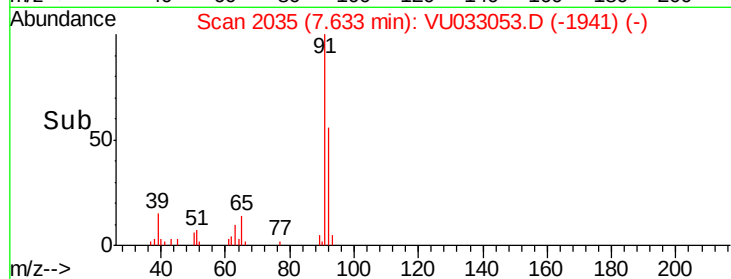
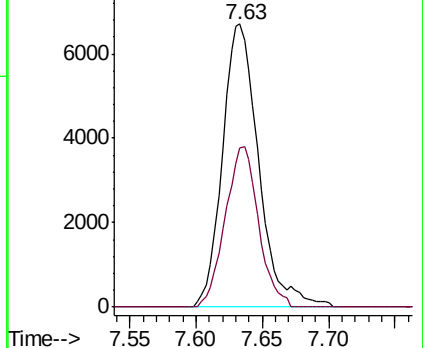
91 100

92 56.4 39.8 74.0



Abundance Ion 91.15 (90.85 to 91.85): VU033055.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU033055.D (-2020) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.419 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VU033053.D

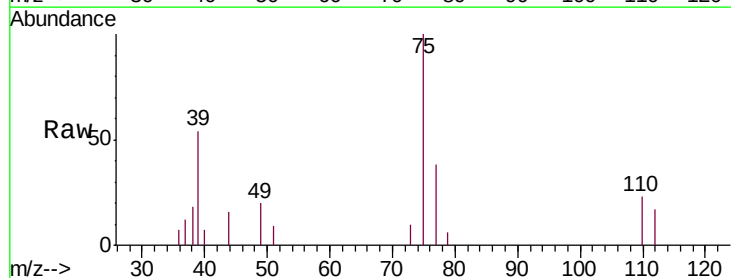
Acq: 27 Jun 2019 09:41

Tgt Ion: 75 Resp: 3486

Ion Ratio Lower Upper

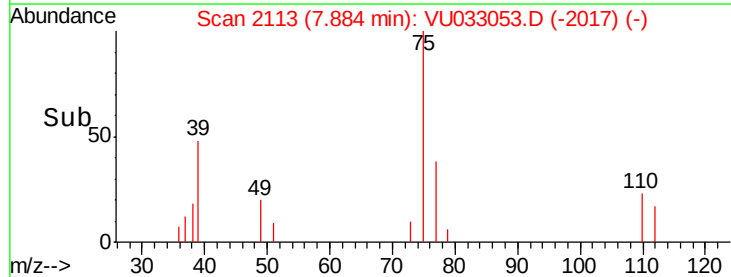
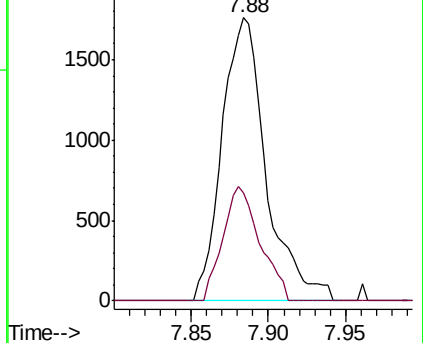
75 100

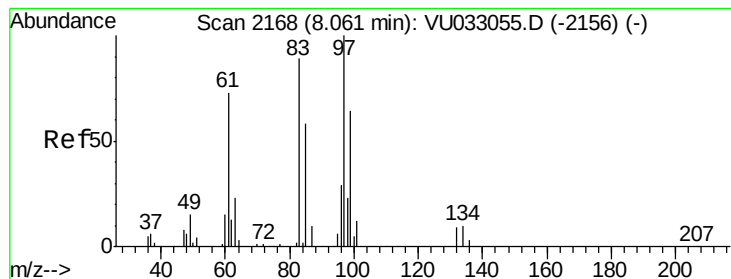
77 38.0 21.6 40.2



Abundance Ion 75.05 (74.75 to 75.75): VU033055.D (-2093) (-)

Ion 77.05 (76.75 to 77.75): VU033055.D (-2093) (-)





#45

1,1,2-Trichloroethane

Concen: 0.478 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.501

Tgt Ion: 97 Resp: 2348

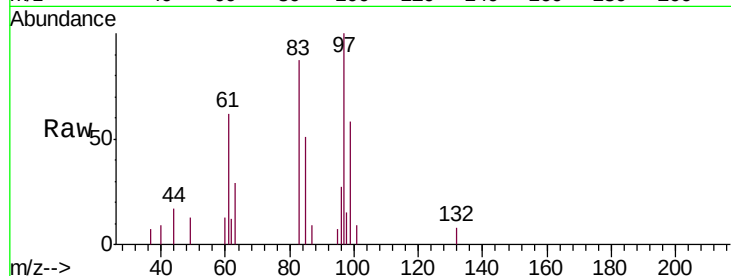
Ion Ratio Lower Upper

97 100

99 57.9 44.7 83.1

83 86.8 62.6 116.2

85 51.1 40.5 75.1



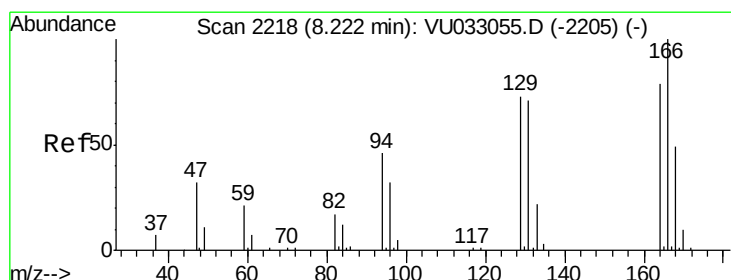
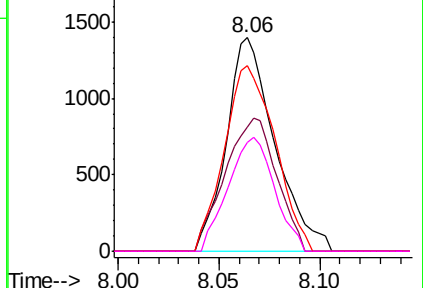
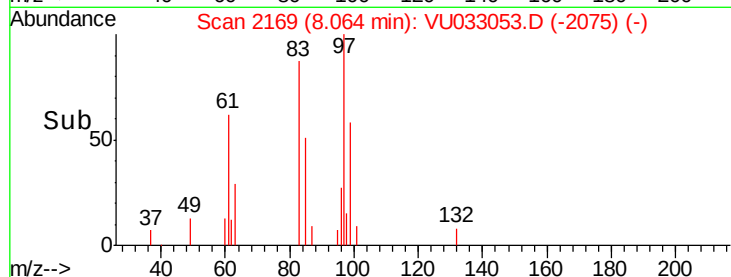
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 0.453 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Tgt Ion: 164 Resp: 2606

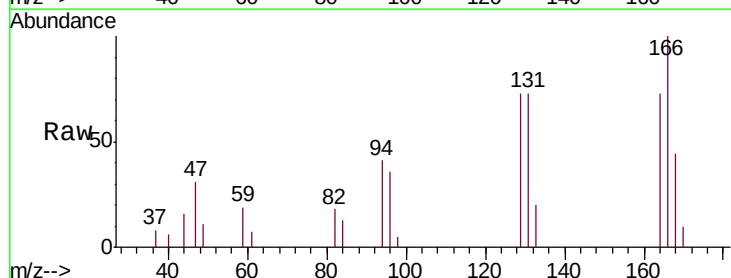
Ion Ratio Lower Upper

164 100

129 100.0 64.9 120.5

131 99.9 63.5 117.9

166 136.2 89.1 165.5



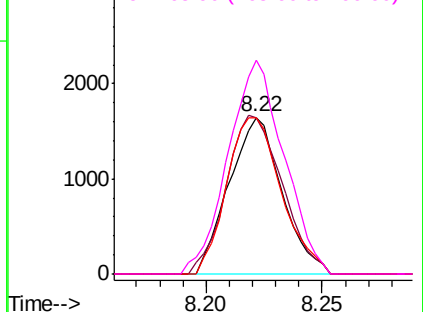
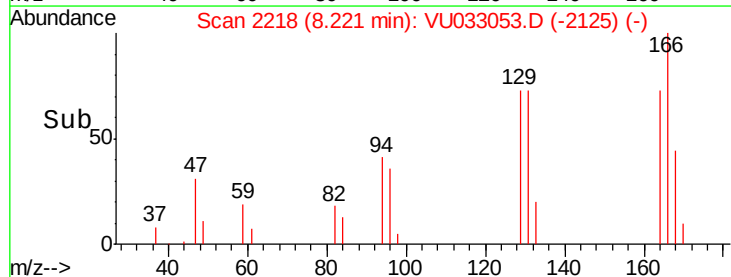
Abundance

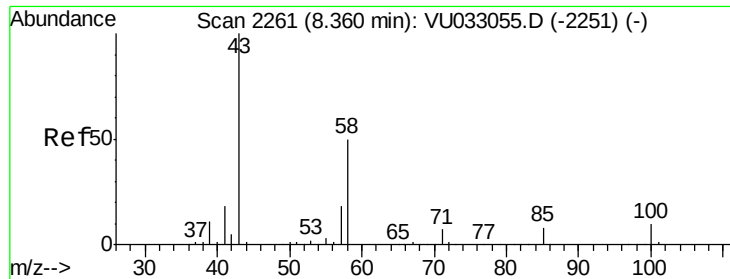
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

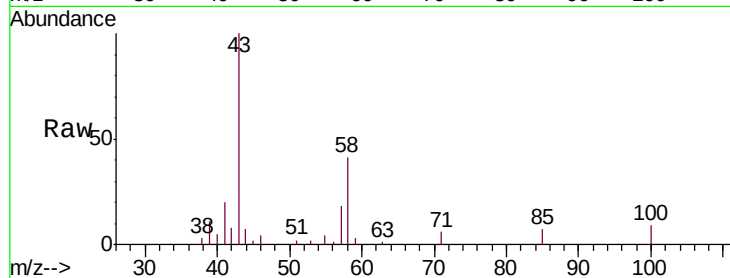




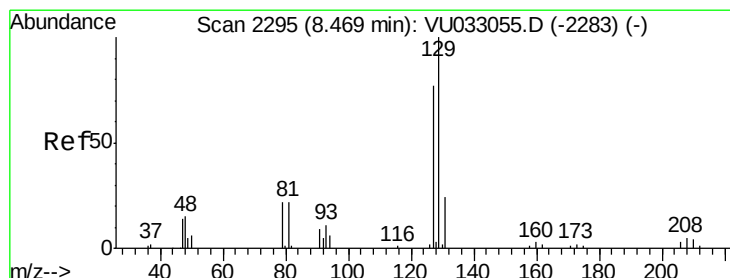
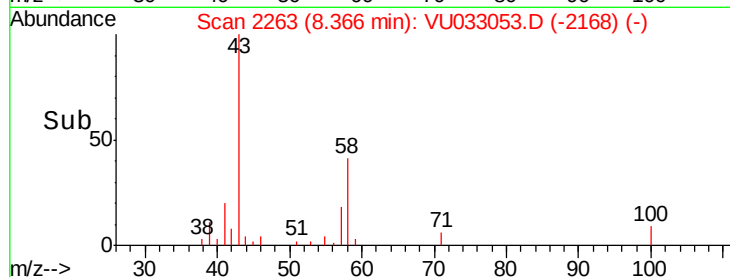
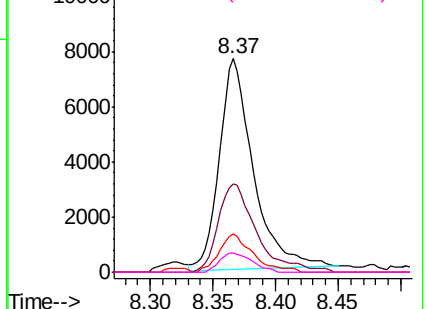
#48  
2-Hexanone  
Concen: 4.162 ug/L  
RT: 8.37 min Scan# 2263  
Delta R.T. 0.01 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.501

Tgt Ion: 43 Resp: 14380  
Ion Ratio Lower Upper  
43 100  
58 46.8 40.0 60.0  
57 17.5 14.0 21.0  
100 8.8 7.9 11.9

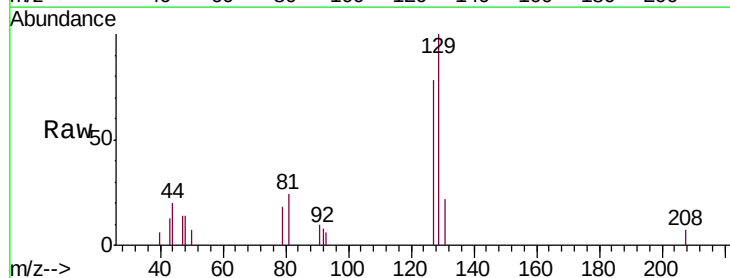


Abundance Ion 43.05 (42.75 to 43.75): VU033053.D (-2251) (-)  
Ion 58.05 (57.75 to 58.75): VU033053.D (-2251) (-)  
Ion 57.20 (56.90 to 57.90): VU033053.D (-2251) (-)  
Ion 100.15 (99.85 to 100.85): VU033053.D (-2251) (-)

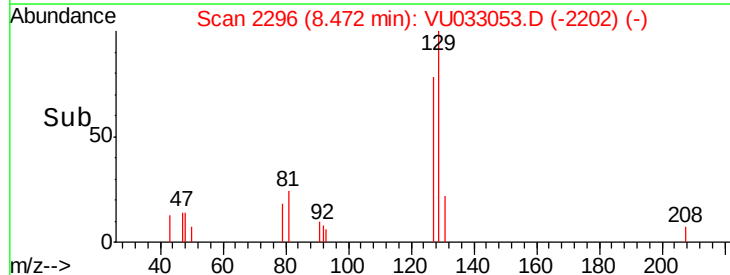
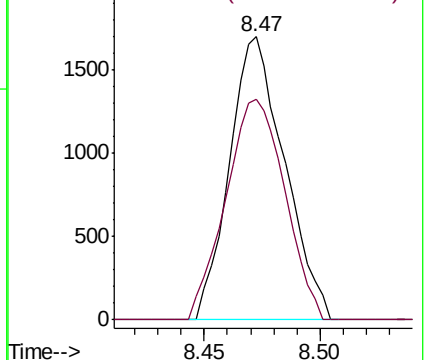


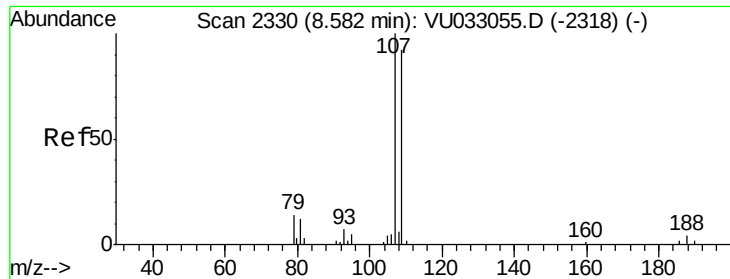
#49  
Dibromochloromethane  
Concen: 0.448 ug/L  
RT: 8.47 min Scan# 2296  
Delta R.T. 0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Tgt Ion: 129 Resp: 2790  
Ion Ratio Lower Upper  
129 100  
127 77.9 54.0 100.4



Abundance Ion 128.95 (128.65 to 129.65): VU033053.D (-2283) (-)  
Ion 126.90 (126.60 to 127.60): VU033053.D (-2283) (-)

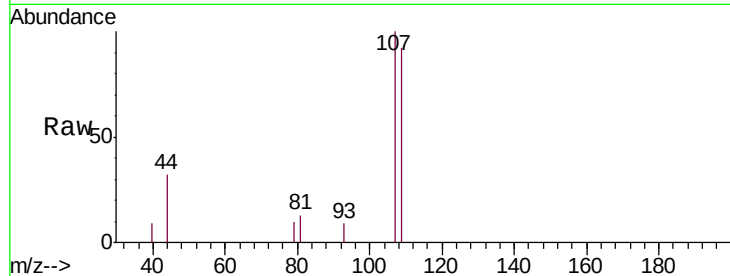




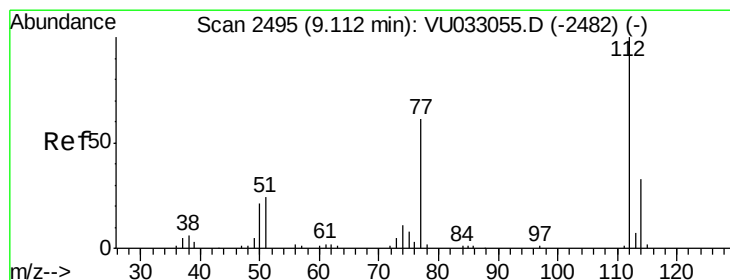
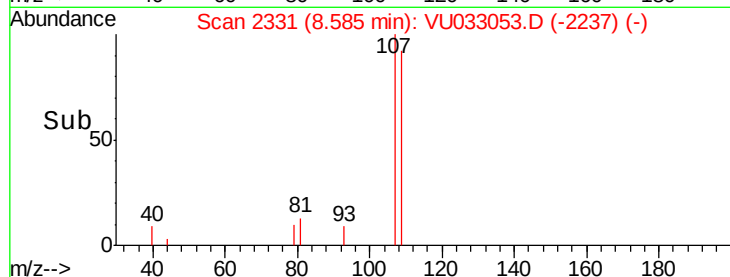
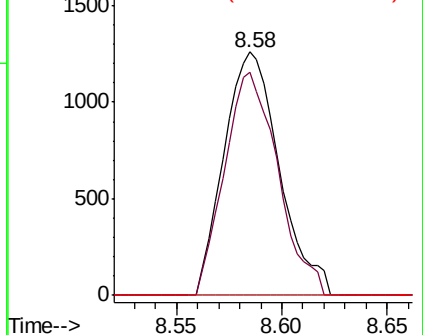
#50  
1,2-Dibromoethane  
Concen: 0.479 ug/L  
RT: 8.58 min Scan# 2331  
Delta R.T. 0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.501

Tgt Ion:107 Resp: 2295  
Ion Ratio Lower Upper  
107 100  
109 91.8 64.7 120.1  
188 0.0 2.9 4.3#

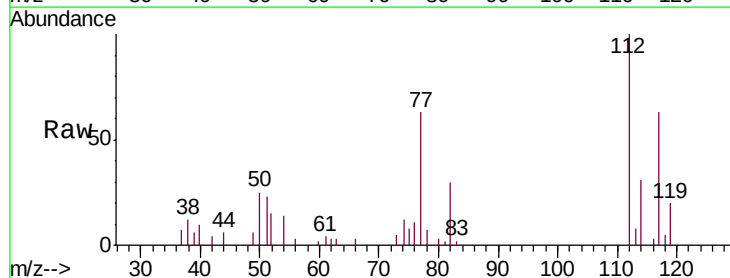


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

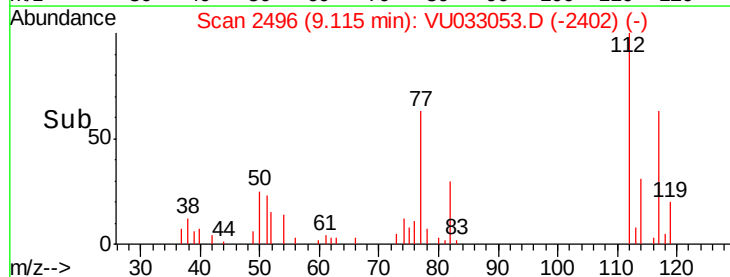
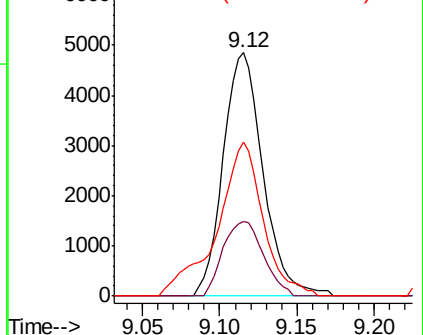


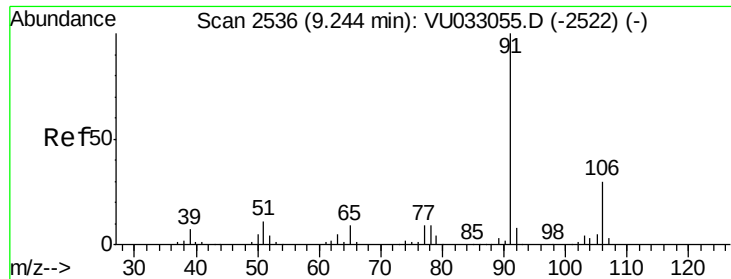
#51  
Chlorobenzene  
Concen: 0.471 ug/L  
RT: 9.12 min Scan# 2496  
Delta R.T. 0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Tgt Ion:112 Resp: 8675  
Ion Ratio Lower Upper  
112 100  
114 30.7 23.3 43.3  
77 63.3 48.9 73.3



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

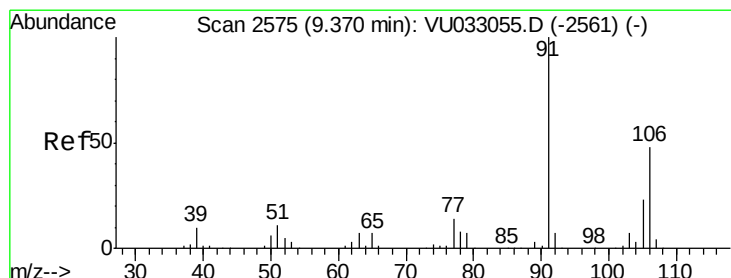
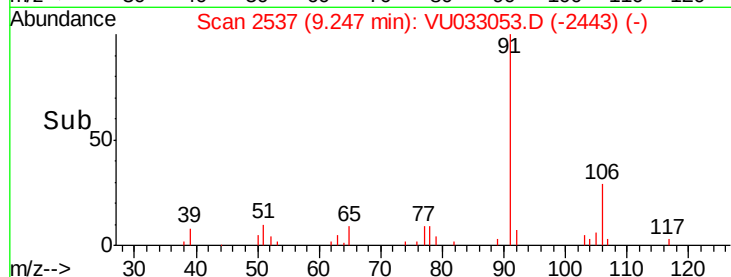
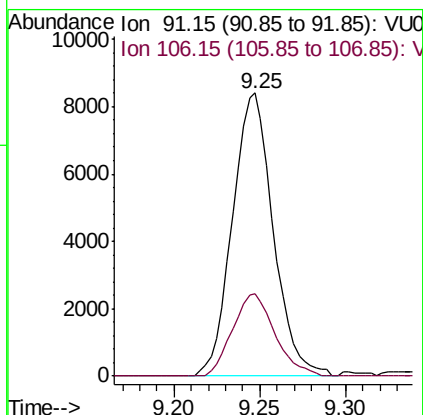
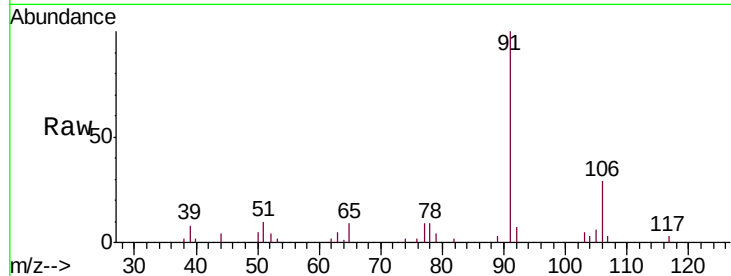




#52  
Ethylbenzene  
Concen: 0.450 ug/L  
RT: 9.25 min Scan# 2537  
Delta R.T. 0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

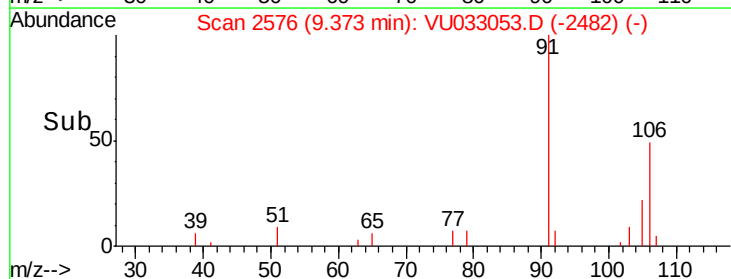
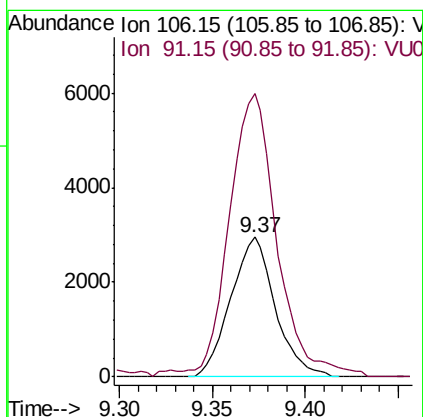
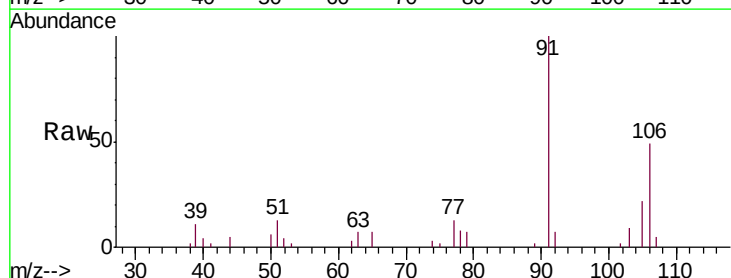
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.501

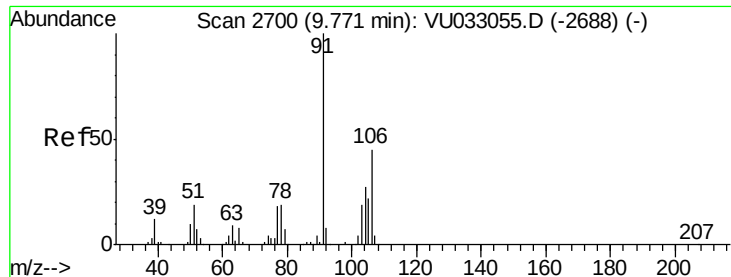
Tgt Ion: 91 Resp: 13832  
Ion Ratio Lower Upper  
91 100  
106 28.9 21.2 39.4



#53  
m,p-Xylene  
Concen: 0.441 ug/L  
RT: 9.37 min Scan# 2576  
Delta R.T. 0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Tgt Ion: 106 Resp: 4917  
Ion Ratio Lower Upper  
106 100  
91 203.0 146.4 272.0

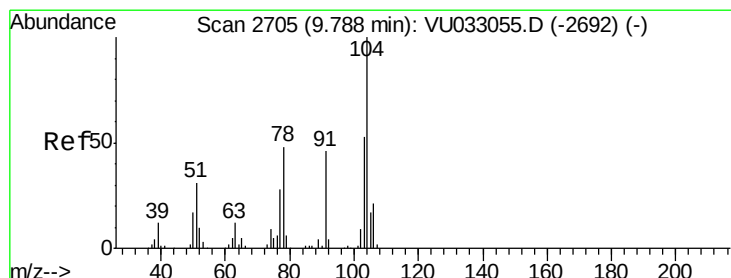
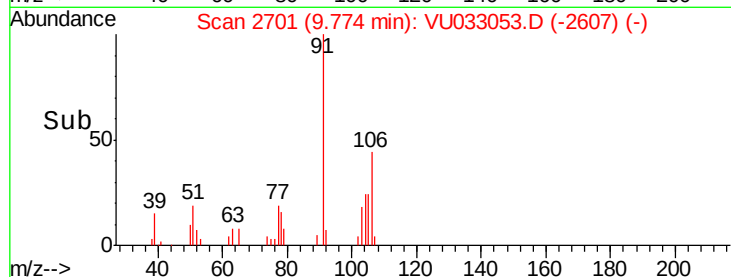
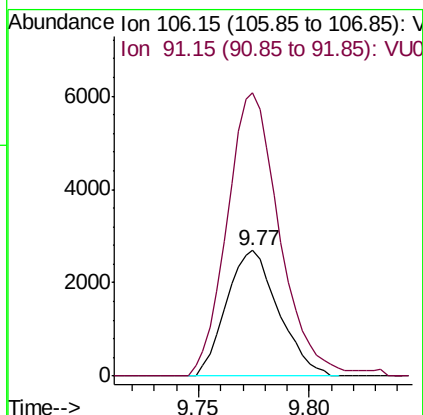
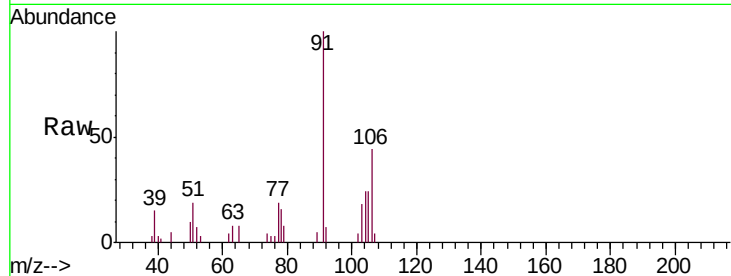




#54  
o-Xylene  
Concen: 0.406 ug/L  
RT: 9.77 min Scan# 2701  
Delta R.T. 0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

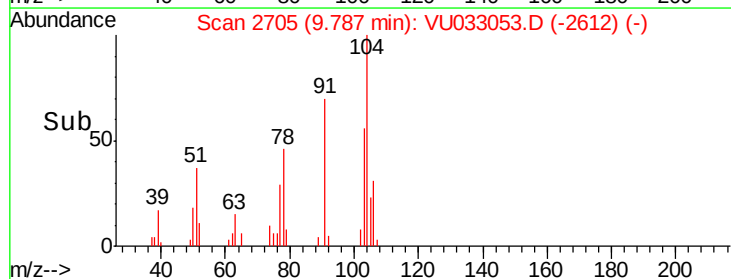
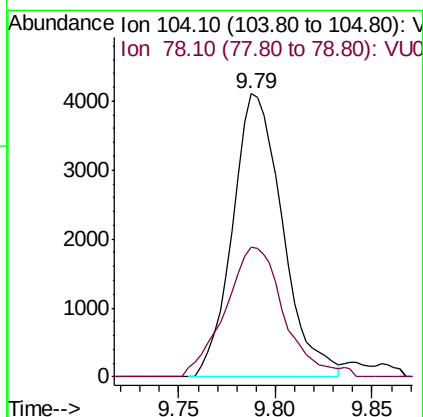
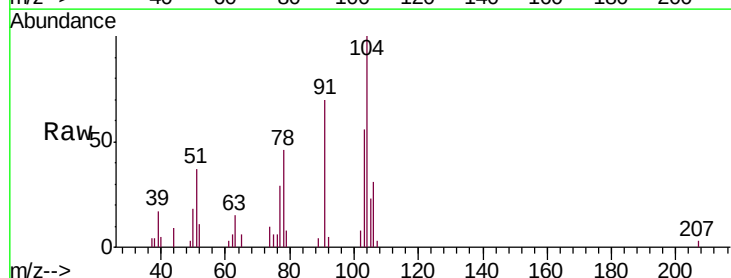
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.501

Tgt Ion:106 Resp: 4409  
Ion Ratio Lower Upper  
106 100  
91 224.9 155.1 288.1

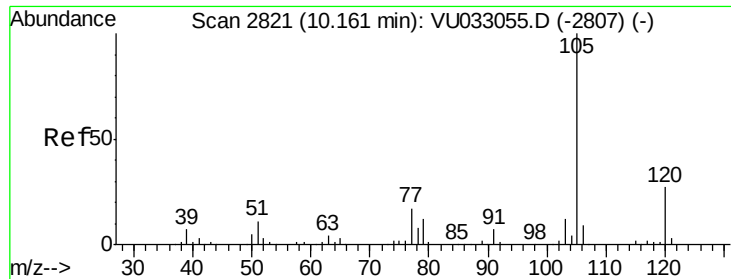


#55  
Styrene  
Concen: 0.401 ug/L  
RT: 9.79 min Scan# 2705  
Delta R.T. -0.00 min  
Lab File: VU033053.D  
Acq: 27 Jun 2019 09:41

Tgt Ion:104 Resp: 7377  
Ion Ratio Lower Upper  
104 100  
78 46.0 33.9 62.9







#56

Isopropylbenzene

Concen: 0.424 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.501

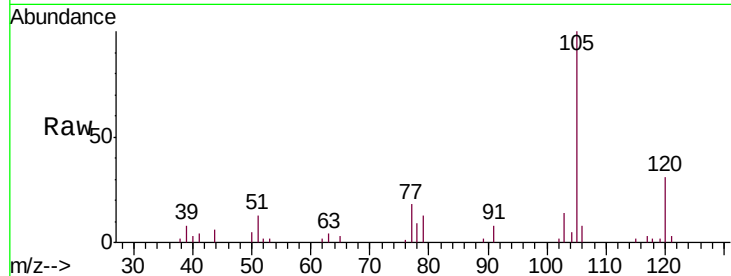
Tgt Ion:105 Resp: 12510

Ion Ratio Lower Upper

105 100

120 28.5 21.0 31.6

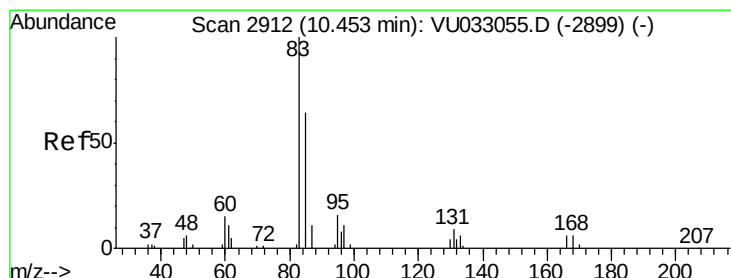
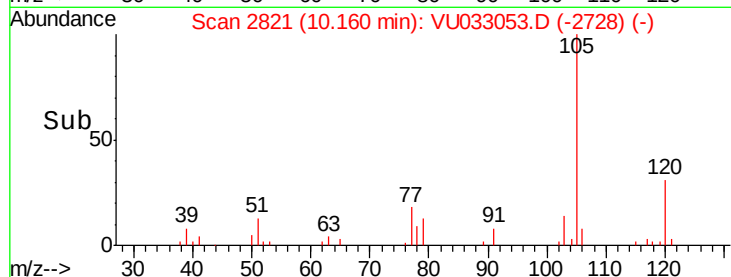
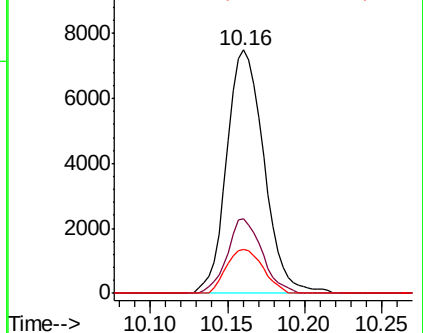
77 17.7 13.6 20.4



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: 0.452 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

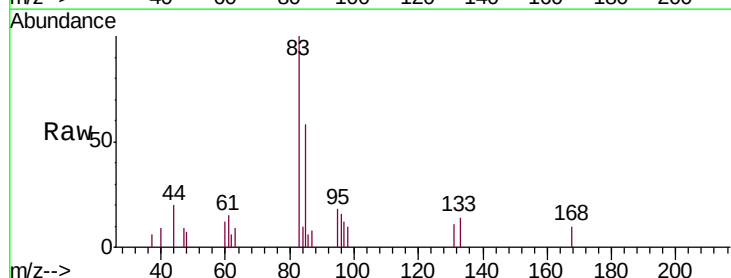
Tgt Ion: 83 Resp: 2880

Ion Ratio Lower Upper

83 100

85 57.5 45.7 84.9

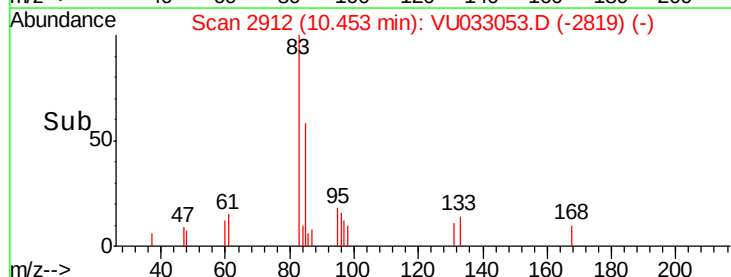
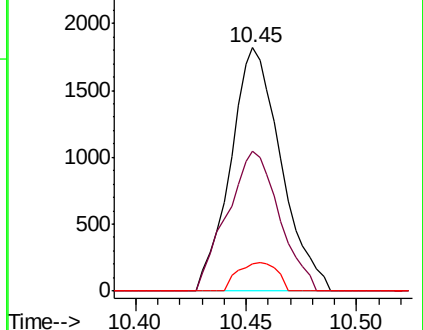
131 11.1 7.7 11.5

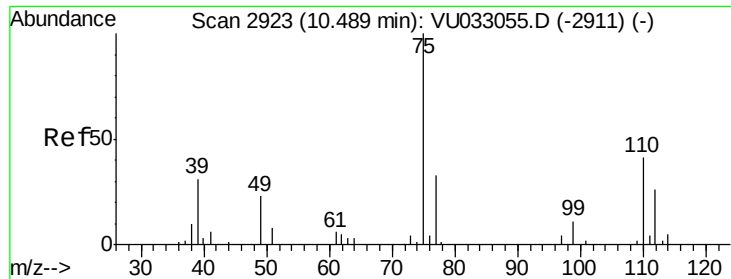


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

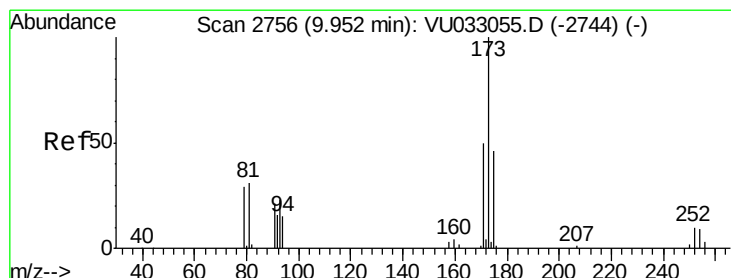
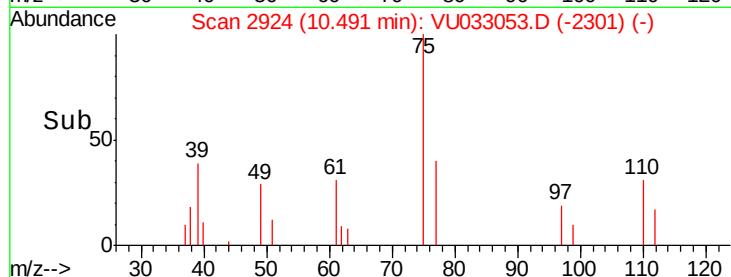
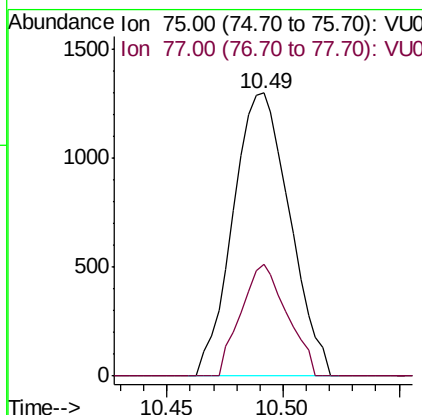
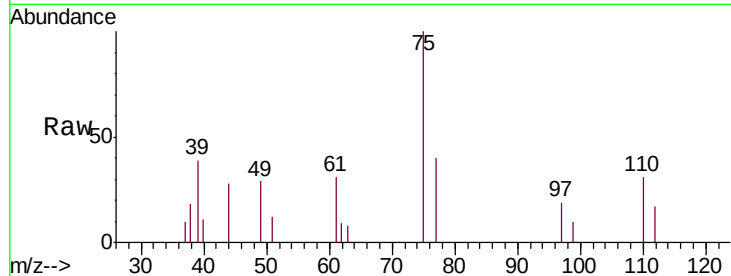




#59  
 1,2,3-Trichloropropane  
 Concen: 0.469 ug/L  
 RT: 10.49 min Scan# 2924  
 Delta R.T. 0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

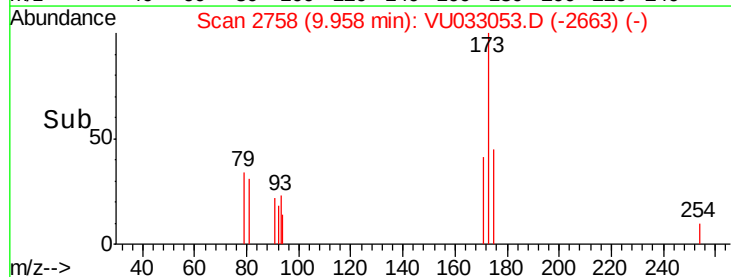
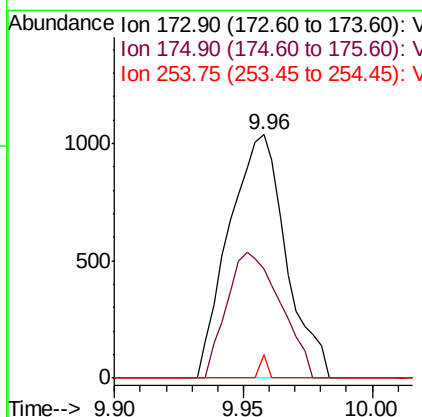
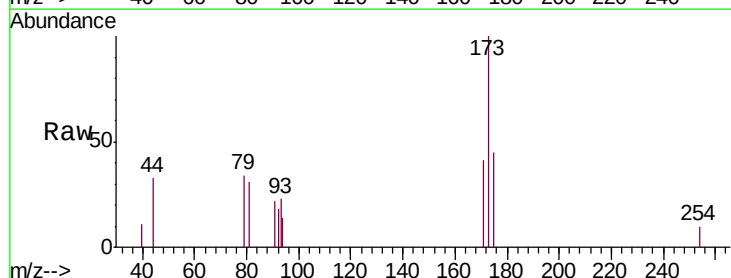
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.501

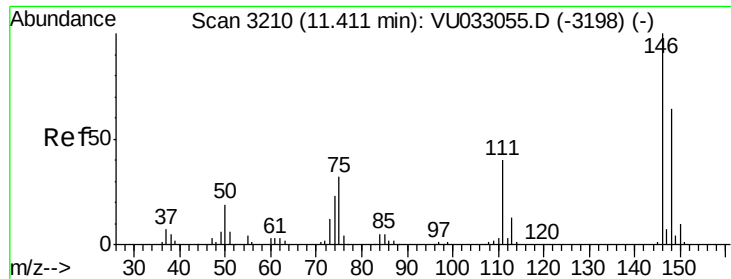
Tgt Ion: 75 Resp: 2198  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 25.4 38.2



#61  
 Bromoform  
 Concen: 0.457 ug/L  
 RT: 9.96 min Scan# 2758  
 Delta R.T. 0.01 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Tgt Ion: 173 Resp: 1595  
 Ion Ratio Lower Upper  
 173 100  
 175 48.7 37.7 56.5  
 254 1.2 7.7 11.5#

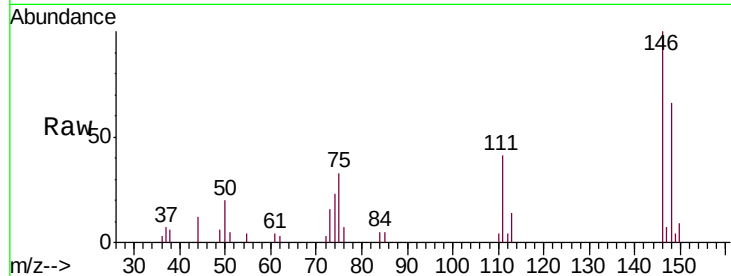




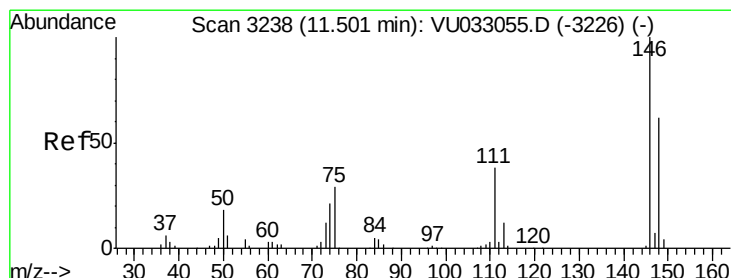
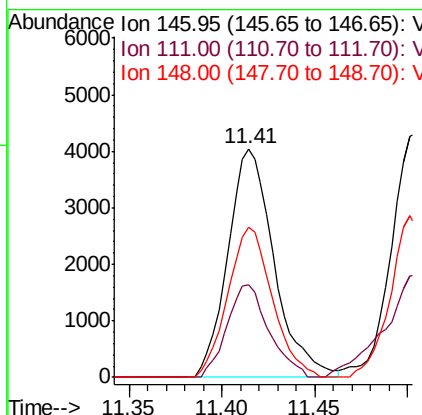
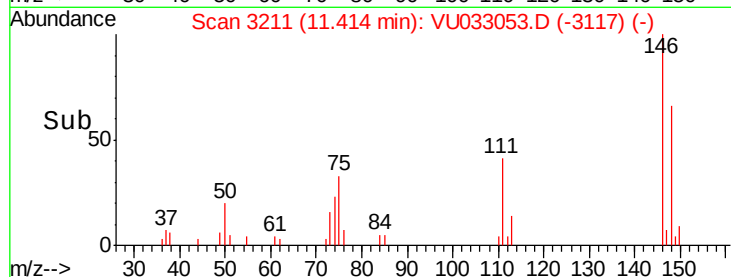
#62  
 1,3-Dichlorobenzene  
 Concen: 0.488 ug/L  
 RT: 11.41 min Scan# 3211  
 Delta R.T. 0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.501

Tgt Ion:146 Resp: 7008  
 Ion Ratio Lower Upper  
 146 100  
 111 40.7 27.7 51.5  
 148 65.5 44.5 82.7

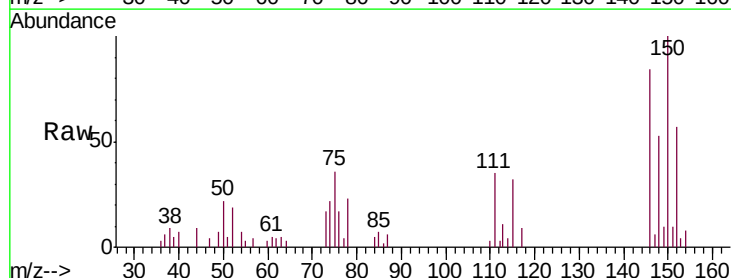


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

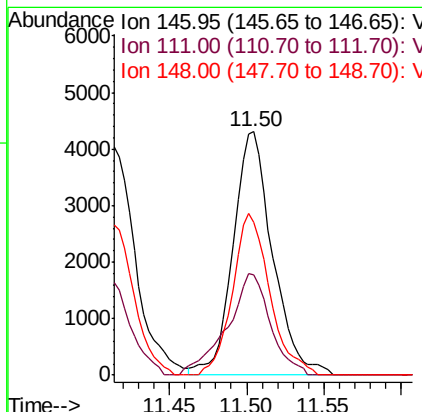
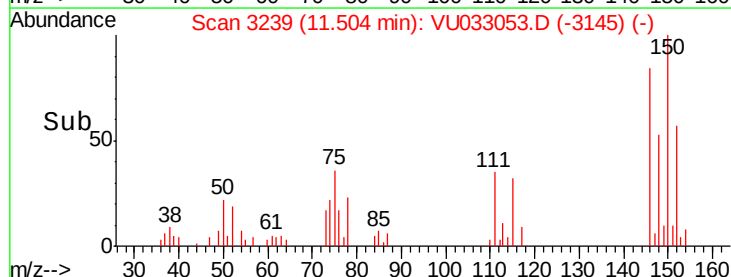


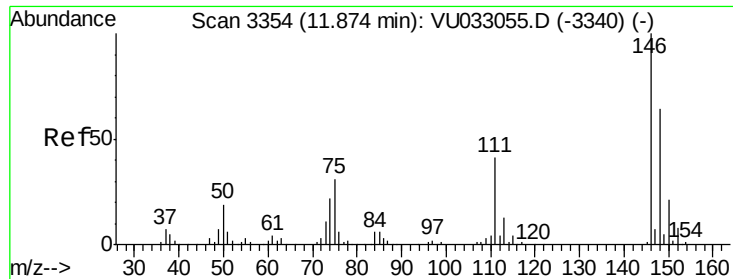
#63  
 1,4-Dichlorobenzene  
 Concen: 0.509 ug/L  
 RT: 11.50 min Scan# 3239  
 Delta R.T. 0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Tgt Ion:146 Resp: 7620  
 Ion Ratio Lower Upper  
 146 100  
 111 41.3 26.7 49.7  
 148 62.8 43.6 81.0



Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

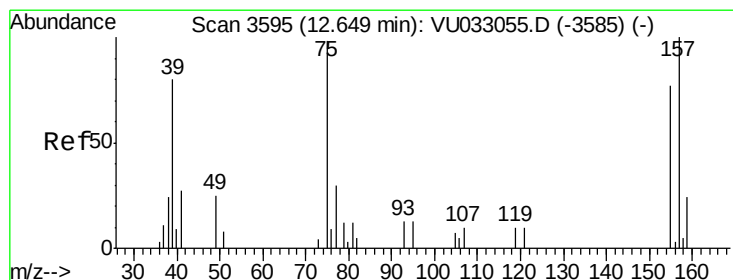
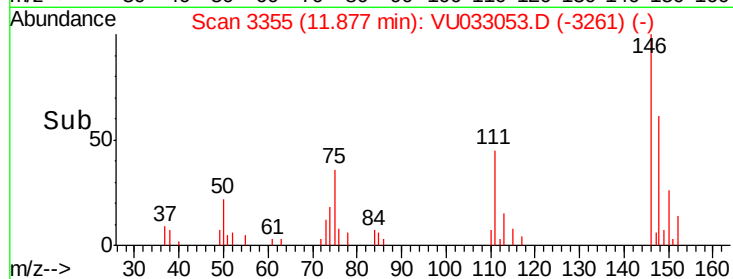
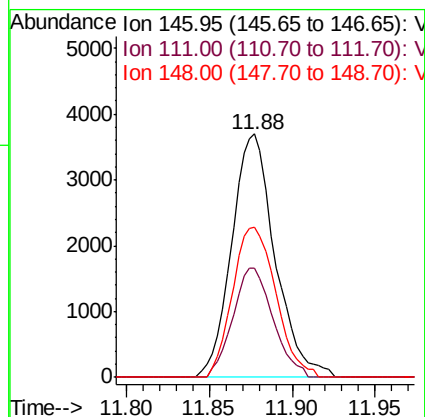
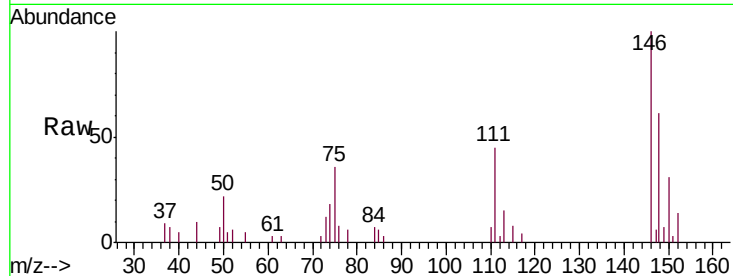




#65  
 1,2-Dichlorobenzene  
 Concen: 0.483 ug/L  
 RT: 11.88 min Scan# 3355  
 Delta R.T. 0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

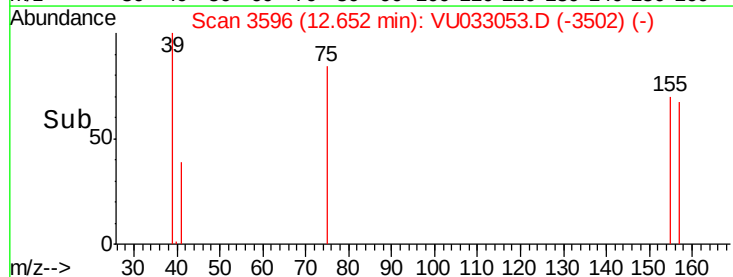
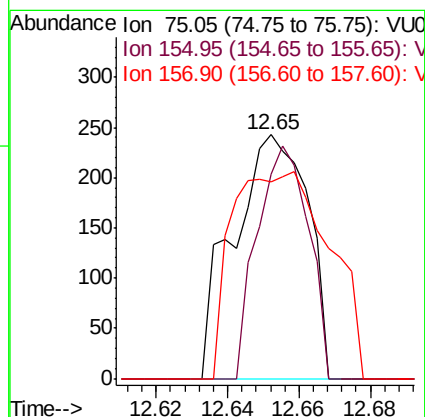
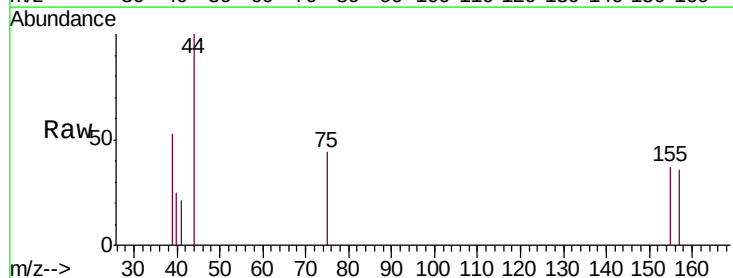
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.501

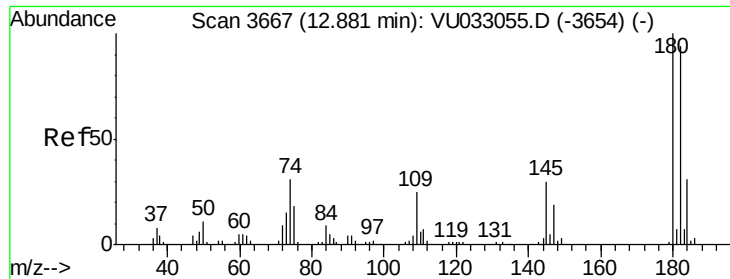
Tgt Ion: 146 Resp: 6718  
 Ion Ratio Lower Upper  
 146 100  
 111 44.9 33.2 49.8  
 148 61.4 51.4 77.0



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 0.366 ug/L  
 RT: 12.65 min Scan# 3596  
 Delta R.T. 0.00 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Tgt Ion: 75 Resp: 350  
 Ion Ratio Lower Upper  
 75 100  
 155 83.5 62.9 94.3  
 157 80.7 82.0 123.0#

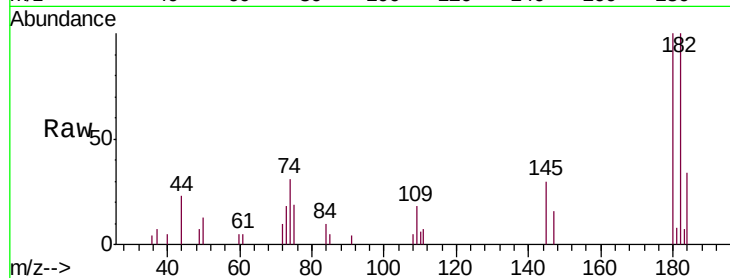




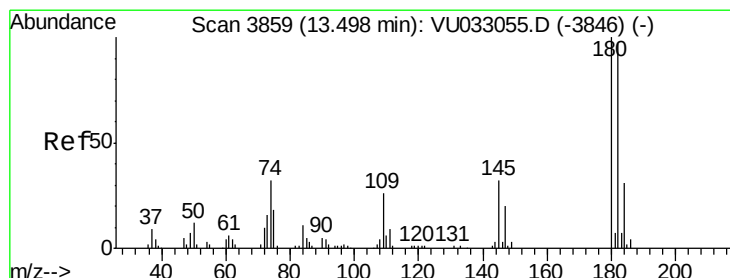
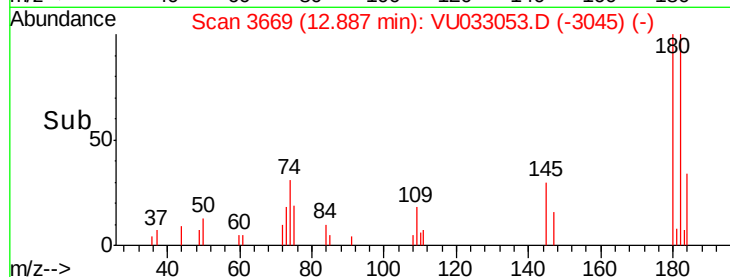
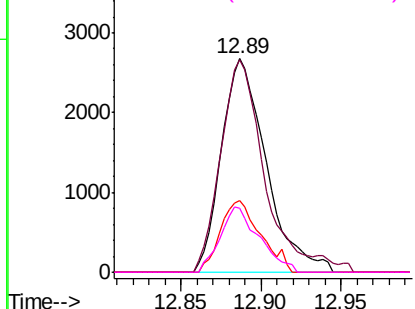
#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.448 ug/L  
 RT: 12.89 min Scan# 3669  
 Delta R.T. 0.01 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.501

Tgt Ion:180 Resp: 5126  
 Ion Ratio Lower Upper  
 180 100  
 182 98.1 76.6 114.8  
 184 30.0 24.6 36.8  
 145 26.8 23.8 35.6

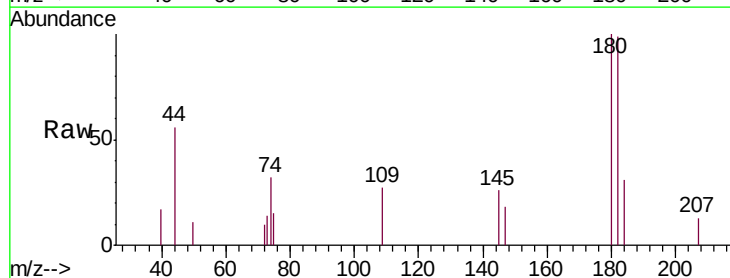


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

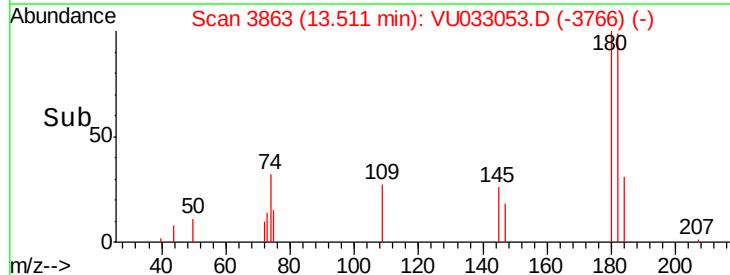
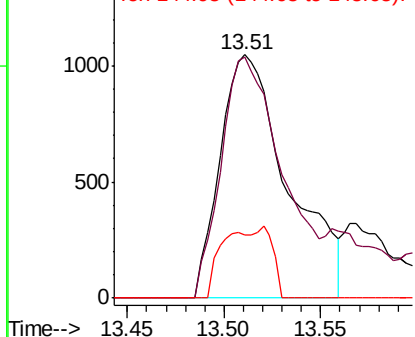


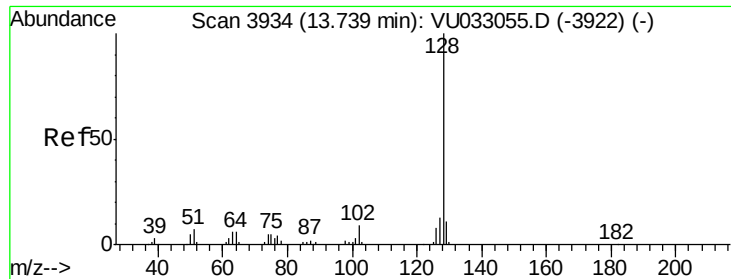
#68  
 1,2,4-trichlorobenzene  
 Concen: 0.313 ug/L  
 RT: 13.51 min Scan# 3863  
 Delta R.T. 0.01 min  
 Lab File: VU033053.D  
 Acq: 27 Jun 2019 09:41

Tgt Ion:180 Resp: 2560  
 Ion Ratio Lower Upper  
 180 100  
 182 89.6 79.1 118.7  
 145 13.3 24.3 36.5#



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: 0.137 ug/L

RT: 13.76 min Scan# 3940

Delta R.T. 0.02 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.501

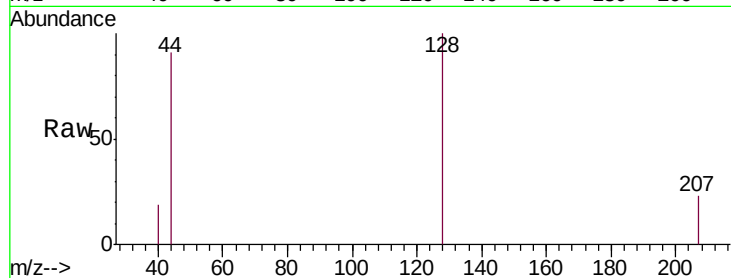
Tgt Ion:128 Resp: 1492

Ion Ratio Lower Upper

128 100

129 1.3 8.6 12.8#

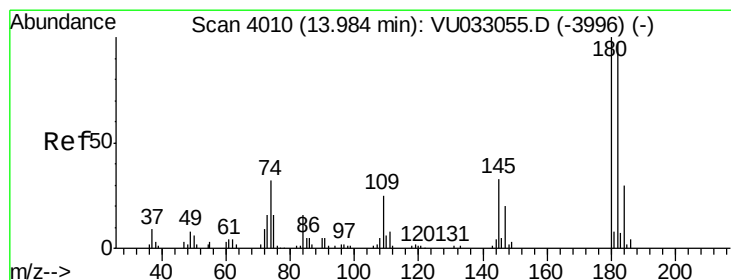
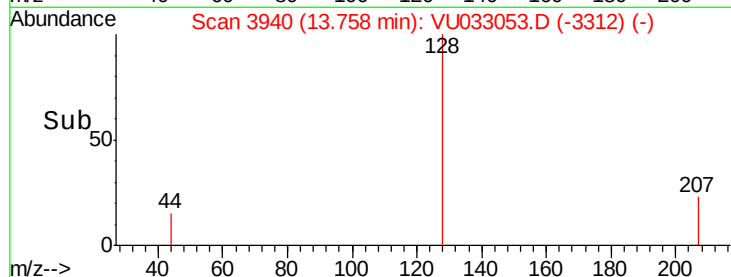
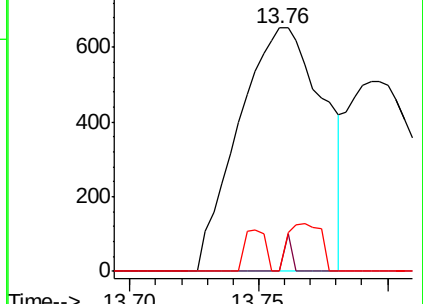
127 7.6 10.9 16.3#



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: 0.365 ug/L

RT: 13.99 min Scan# 4013

Delta R.T. 0.01 min

Lab File: VU033053.D

Acq: 27 Jun 2019 09:41

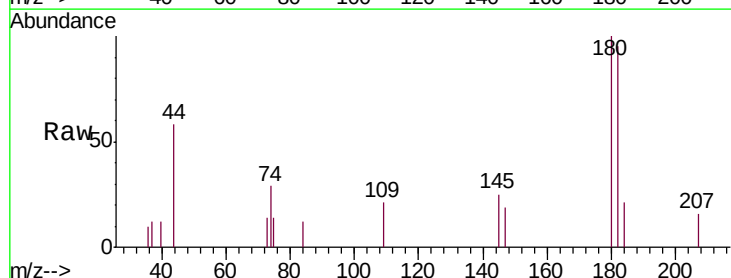
Tgt Ion:180 Resp: 2923

Ion Ratio Lower Upper

180 100

182 86.1 74.8 112.2

145 12.2 25.7 38.5#



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

