

Data File : VV010212.D  
Acq On : 10 Apr 2019 13:06  
Operator : SY/MD  
Sample : VSTD02590  
Misc : 5.00G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 13:54:42 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041019S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Apr 10 12:21:10 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 292854   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 282927   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 144174   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |        |       |      |       |
|--------------------------------|-------|-----|--------|-------|------|-------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 75524  | 19.26 | ug/L | 0.00  |
| 7) Chloroethane-d5             | 1.57  | 69  | 63145  | 12.97 | ug/L | 0.00  |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 195441 | 19.76 | ug/L | 0.00  |
| 20) 2-Butanone-d5              | 3.93  | 46  | 40617  | 36.41 | ug/L | -0.01 |
| 24) Chloroform-d               | 4.40  | 84  | 152646 | 20.69 | ug/L | 0.00  |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 87293  | 21.15 | ug/L | 0.00  |
| 29) Benzene-d6                 | 5.10  | 84  | 315624 | 21.51 | ug/L | 0.00  |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 90742  | 20.96 | ug/L | 0.00  |
| 37) Toluene-d8                 | 7.36  | 98  | 318126 | 22.50 | ug/L | 0.00  |
| 38) trans-1,3-Dichloropropene- | 7.66  | 79  | 41581  | 22.46 | ug/L | 0.00  |
| 39) 2-Hexanone-d5              | 8.13  | 63  | 32713  | 37.67 | ug/L | 0.00  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 87845  | 20.57 | ug/L | 0.00  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 128407 | 22.86 | ug/L | 0.00  |

Target Compounds

|                                |      |     |        |        |      | Qvalue |
|--------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 112297 | 26.512 | ug/L | 98     |
| 3) Chloromethane               | 1.25 | 50  | 93605  | 24.799 | ug/L | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 100026 | 24.330 | ug/L | 100    |
| 6) Bromomethane                | 1.51 | 94  | 90543  | 19.469 | ug/L | 99     |
| 8) Chloroethane                | 1.59 | 64  | 63385  | 17.636 | ug/L | 100    |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 197915 | 23.355 | ug/L | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 104676 | 22.212 | ug/L | 97     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 92111  | 23.006 | ug/L | 88     |
| 13) Acetone                    | 2.19 | 43  | 40702  | 36.901 | ug/L | 97     |
| 14) Carbon disulfide           | 2.32 | 76  | 238149 | 28.661 | ug/L | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 39226  | 22.225 | ug/L | 98     |
| 16) Methylene chloride         | 2.54 | 84  | 120497 | 23.419 | ug/L | 96     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 200463 | 23.378 | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 89086  | 25.473 | ug/L | 96     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 143788 | 24.199 | ug/L | 97     |
| 21) 2-Butanone                 | 4.02 | 43  | 50245  | 41.595 | ug/L | 97     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 96819  | 24.933 | ug/L | 96     |
| 23) Bromochloromethane         | 4.30 | 128 | 48878  | 25.942 | ug/L | 97     |
| 25) Chloroform                 | 4.43 | 83  | 174692 | 26.235 | ug/L | 98     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 112088 | 24.677 | ug/L | 99     |
| 30) Cyclohexane                | 4.73 | 56  | 126244 | 24.719 | ug/L | 98     |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 143605 | 24.888 | ug/L | 99     |
| 32) Carbon tetrachloride       | 4.88 | 117 | 133301 | 25.847 | ug/L | 98     |
| 34) Benzene                    | 5.15 | 78  | 350987 | 25.368 | ug/L | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 101451 | 25.475 | ug/L | 98     |
| 36) Methylcyclohexane          | 6.18 | 83  | 152072 | 25.490 | ug/L | 99     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 81725  | 23.378 | ug/L | 98     |
| 41) Bromodichloromethane       | 6.56 | 83  | 115190 | 25.337 | ug/L | 97     |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 131285 | 25.944 | ug/L | 100    |
| 43) 4-Methyl-2-pentanone       | 7.27 | 43  | 111149 | 42.973 | ug/L | 98     |

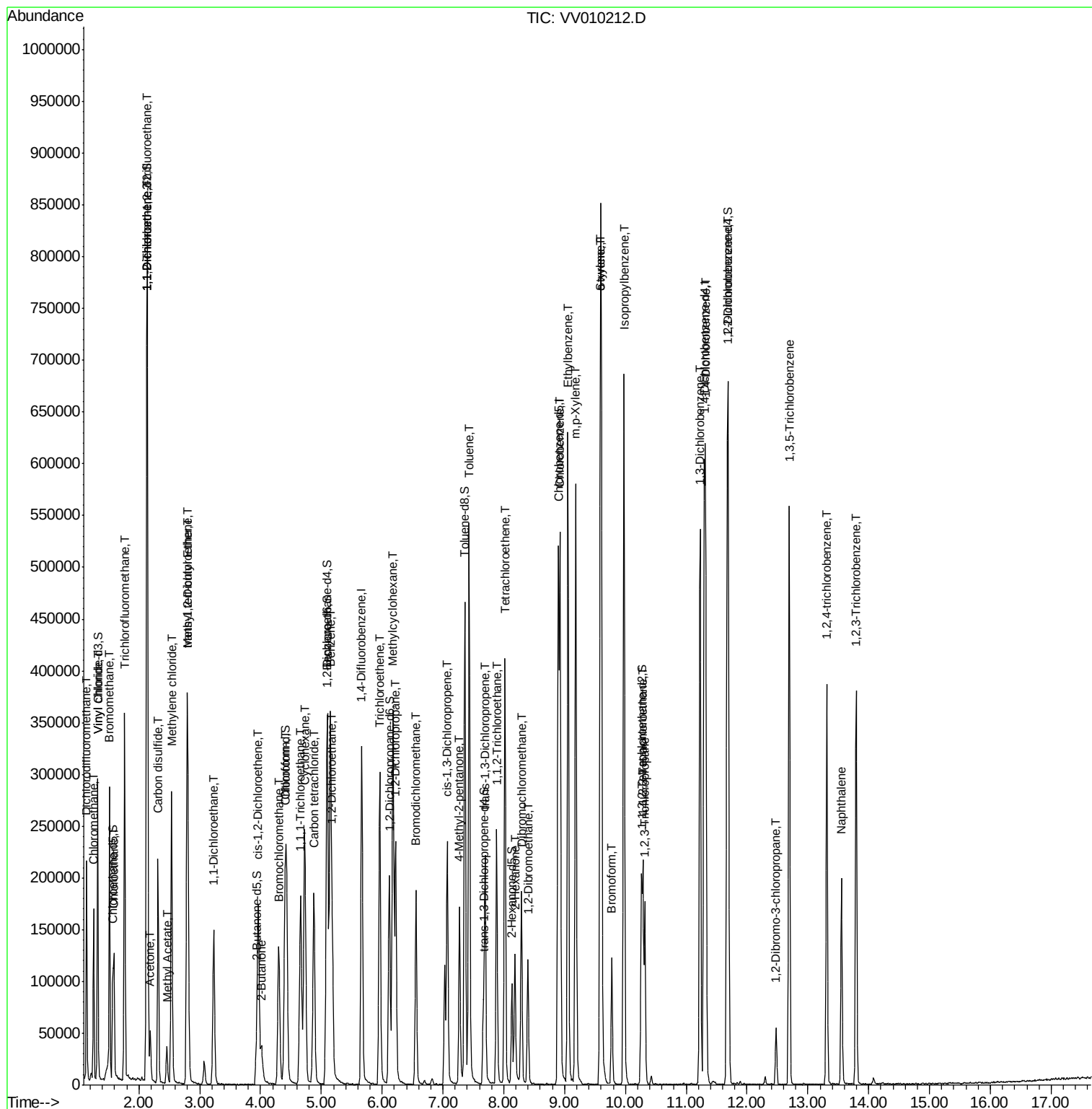
Data File : VV010212.D  
Acq On : 10 Apr 2019 13:06  
Operator : SY/MD  
Sample : VSTD02590  
Misc : 5.00G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

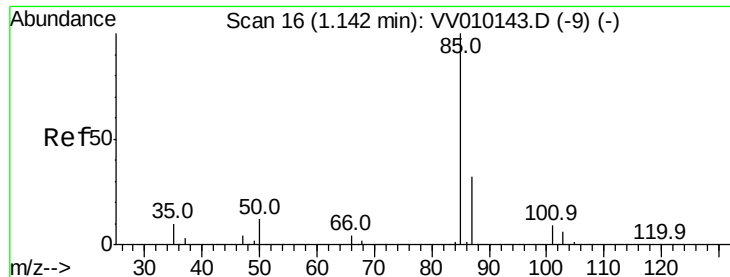
Quant Time: Apr 10 13:54:42 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041019S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Apr 10 12:21:10 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 7.43  | 91   | 397854   | 25.622 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 114493   | 26.603 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 72713    | 23.458 | ug/L  | 96       |
| 47) Tetrachloroethene          | 8.02  | 164  | 89358    | 26.807 | ug/L  | 92       |
| 49) 2-Hexanone                 | 8.18  | 43   | 74019    | 40.066 | ug/L  | 97       |
| 50) Dibromochloromethane       | 8.29  | 129  | 90921    | 26.166 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 73778    | 24.084 | ug/L  | 98       |
| 52) Chlorobenzene              | 8.93  | 112  | 276613   | 26.116 | ug/L  | 99       |
| 53) Ethylbenzene               | 9.06  | 91   | 447457   | 26.279 | ug/L  | 99       |
| 54) m,p-Xylene                 | 9.18  | 106  | 173965   | 26.249 | ug/L  | 97       |
| 55) o-xylene                   | 9.59  | 106  | 176707   | 27.521 | ug/L  | 90       |
| 56) Styrene                    | 9.60  | 104  | 287193   | 27.040 | ug/L  | 100      |
| 57) Isopropylbenzene           | 9.97  | 105  | 452249   | 26.708 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 91383    | 22.953 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 63992    | 22.415 | ug/L  | 98       |
| 62) Bromoform                  | 9.77  | 173  | 50104    | 24.709 | ug/L  | 97       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 227047   | 26.830 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 226749   | 25.723 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 213907   | 25.731 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 12091    | 21.450 | ug/L  | 88       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 170241   | 27.090 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 115441   | 23.989 | ug/L  | 97       |
| 69) Naphthalene                | 13.55 | 128  | 155897   | 19.472 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 109853   | 24.451 | ug/L  | 97       |

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

Quant Time: Apr 10 13:54:42 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_V\METHOD\SOM2VLM041019S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Apr 10 12:21:10 2019  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 26.512 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV010212.D

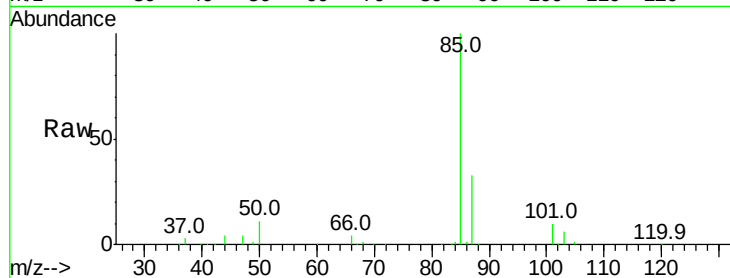
Acq: 10 Apr 2019 13:06

Tgt Ion: 85 Resp: 112297

Ion Ratio Lower Upper

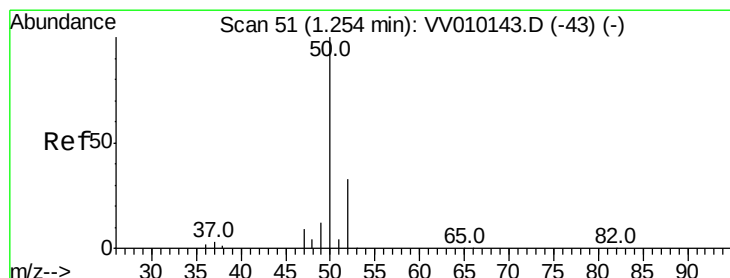
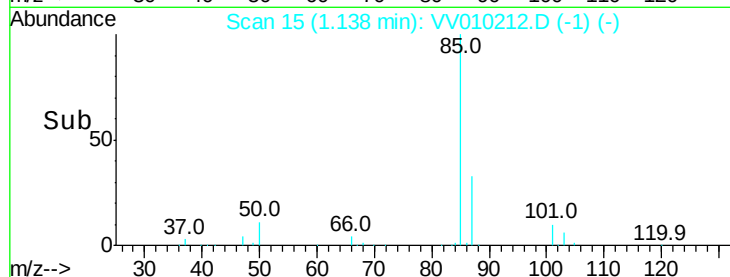
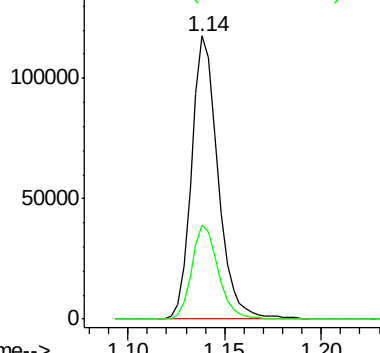
85 100

87 33.3 22.5 41.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 24.799 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV010212.D

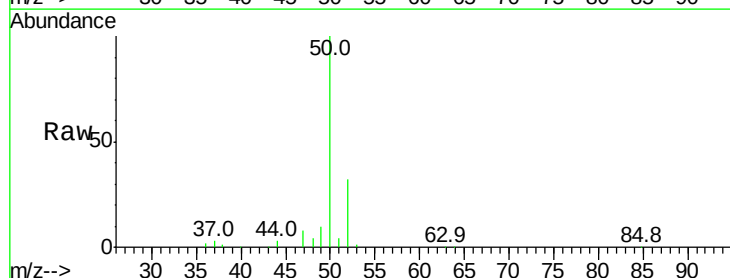
Acq: 10 Apr 2019 13:06

Tgt Ion: 50 Resp: 93605

Ion Ratio Lower Upper

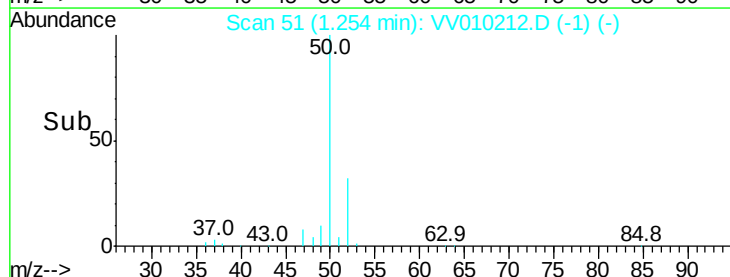
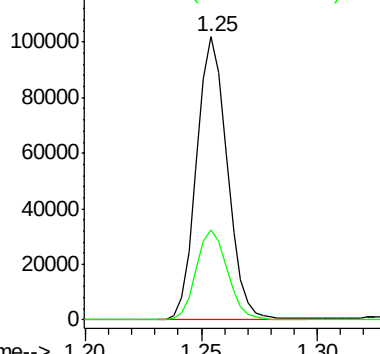
50 100

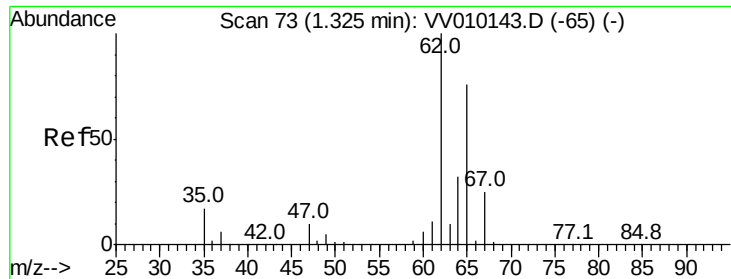
52 32.0 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 24.330 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV010212.D

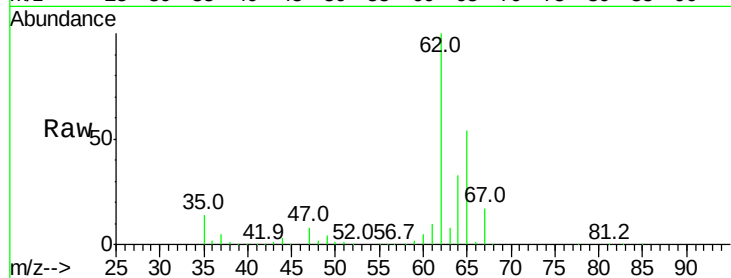
Acq: 10 Apr 2019 13:06

Tgt Ion: 62 Resp: 100026

Ion Ratio Lower Upper

62 100

64 33.4 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

100000

80000

60000

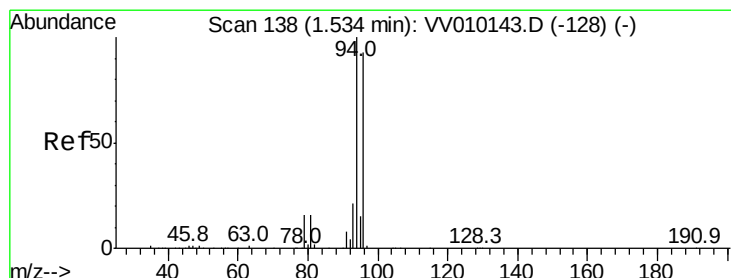
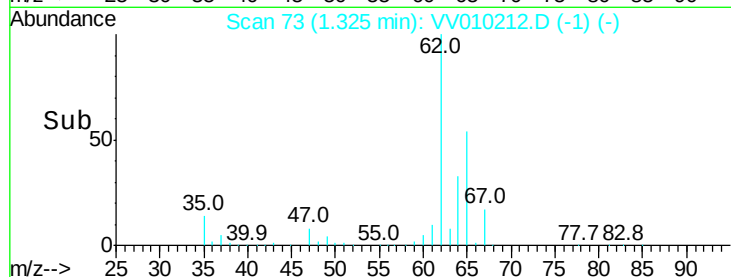
40000

20000

0

1.30 1.35

Time-->



#6

Bromomethane

Concen: 19.469 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.02 min

Lab File: VV010212.D

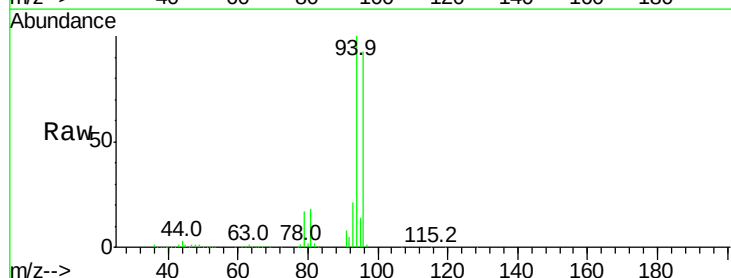
Acq: 10 Apr 2019 13:06

Tgt Ion: 94 Resp: 90543

Ion Ratio Lower Upper

94 100

96 94.2 9.4 177.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.51

100000

80000

60000

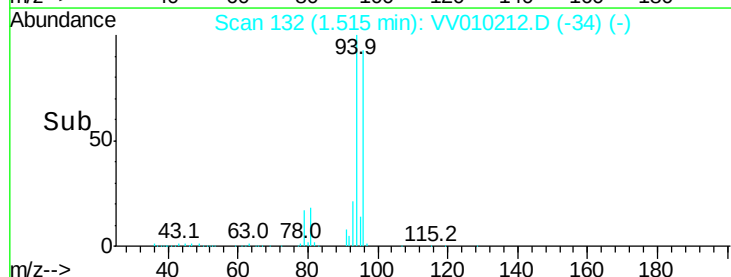
40000

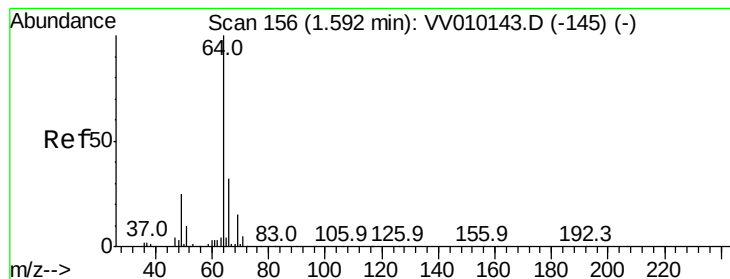
20000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 17.636 ug/L

RT: 1.59 min Scan# 155

Delta R.T. -0.00 min

Lab File: VV010212.D

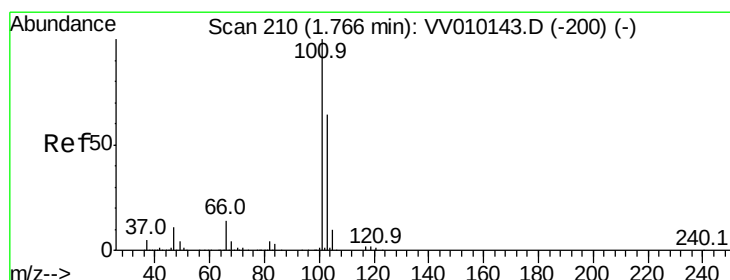
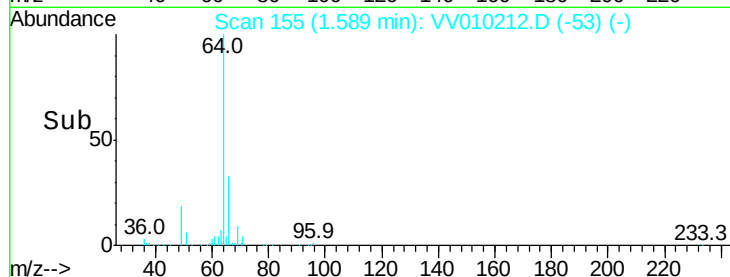
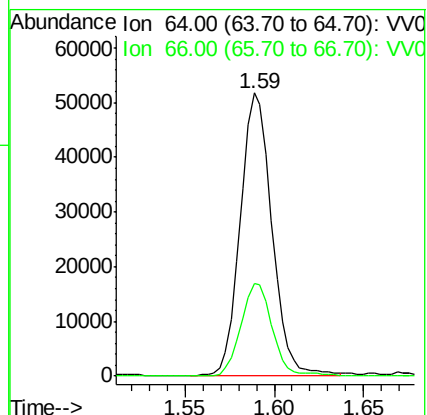
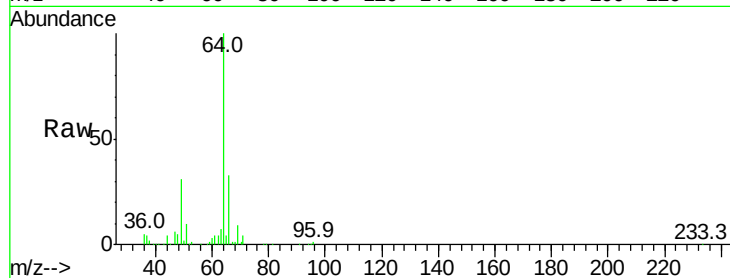
Acq: 10 Apr 2019 13:06

Tgt Ion: 64 Resp: 63385

Ion Ratio Lower Upper

64 100

66 32.6 22.9 42.5



#9

Trichlorofluoromethane

Concen: 23.355 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV010212.D

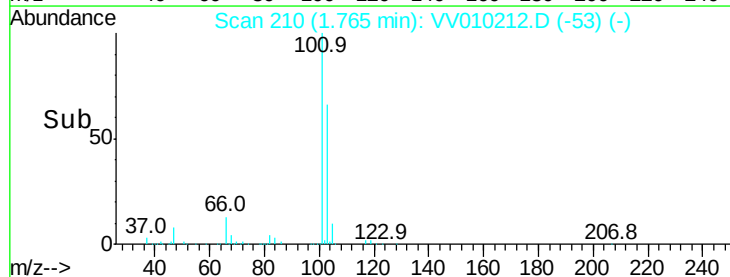
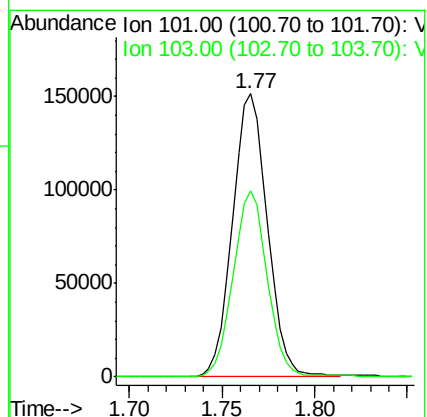
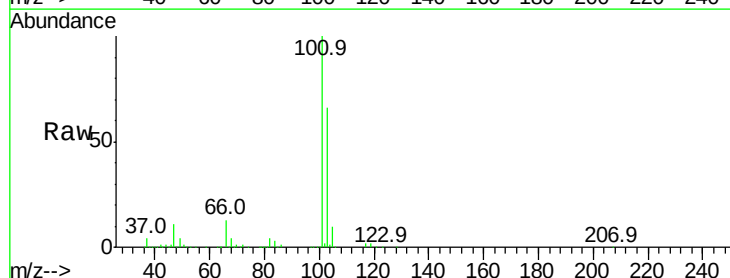
Acq: 10 Apr 2019 13:06

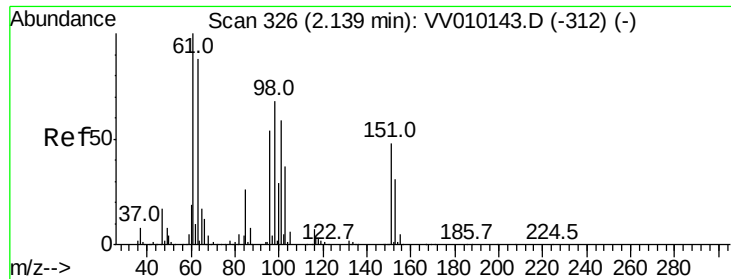
Tgt Ion: 101 Resp: 197915

Ion Ratio Lower Upper

101 100

103 64.0 46.1 85.5





#11

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

Concen: 22.212 ug/L

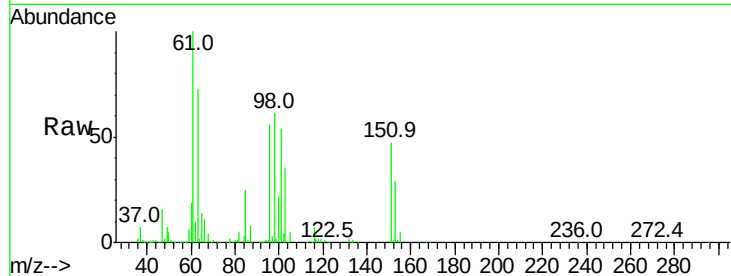
RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

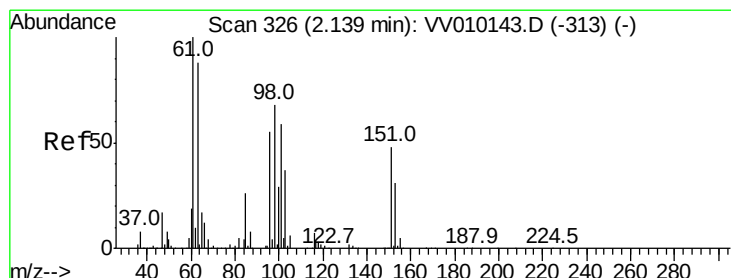
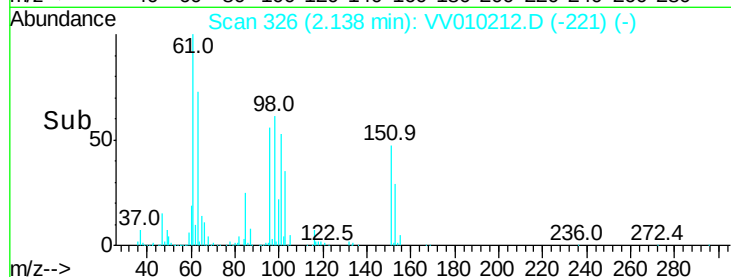
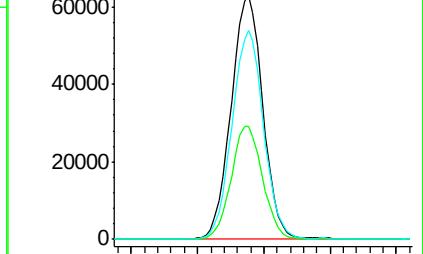
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 101   | Resp: | 104676 |
| Ion      | Ratio | Lower | Upper  |
| 101      | 100   |       |        |
| 85       | 45.9  | 37.3  | 55.9   |
| 151      | 85.1  | 65.4  | 98.2   |



Abundance Ion 101.00 (100.70 to 101.70): VV010143.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV010143.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV010143.D (-312) (-)



#12

1,1-Dichloroethene

Concen: 23.006 ug/L

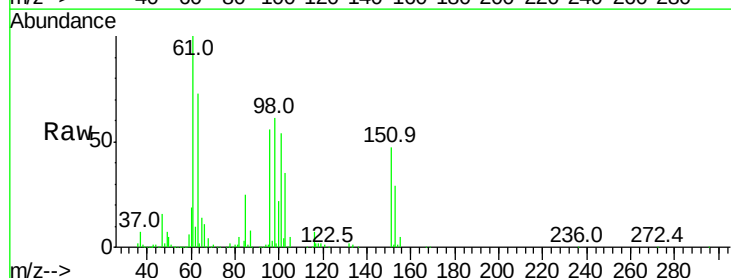
RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

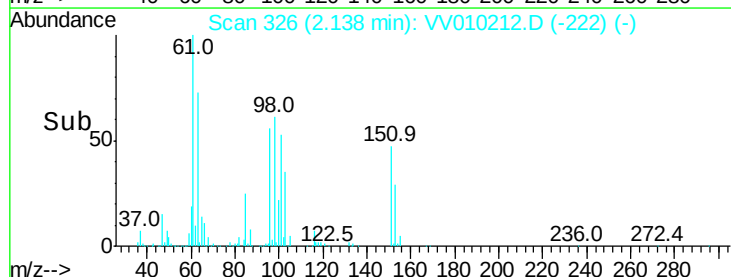
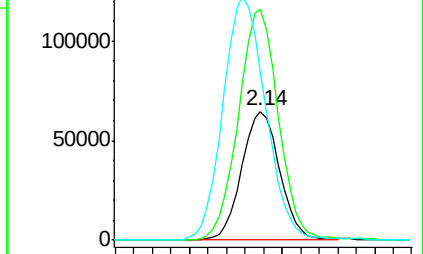
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 92111 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 179.0 | 127.8 | 237.4 |
| 63       | 130.5 | 112.6 | 209.2 |

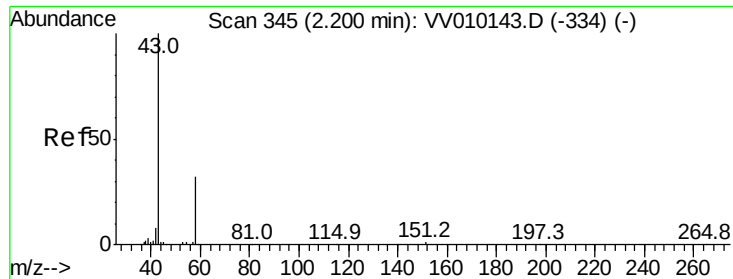


Abundance Ion 96.00 (95.70 to 96.70): VV010143.D (-313) (-)

Ion 61.00 (60.70 to 61.70): VV010143.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV010143.D (-313) (-)





#13

Acetone

Concen: 36.901 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.02 min

Lab File: VV010212.D

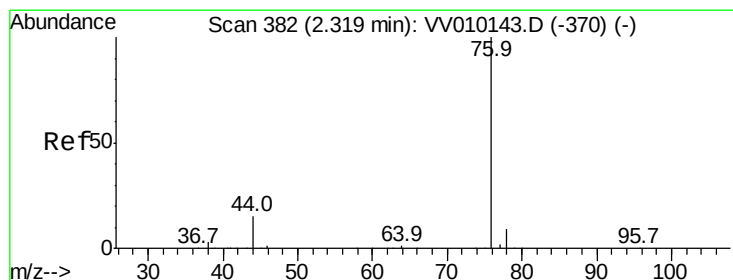
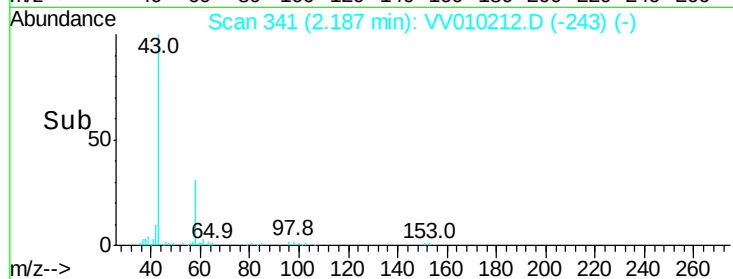
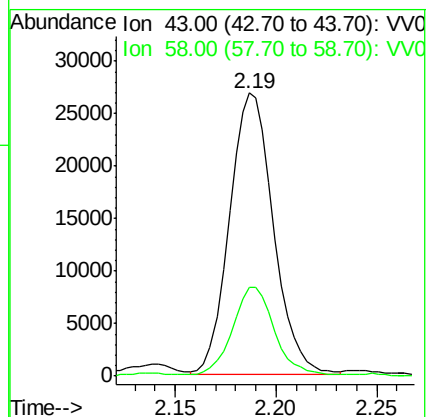
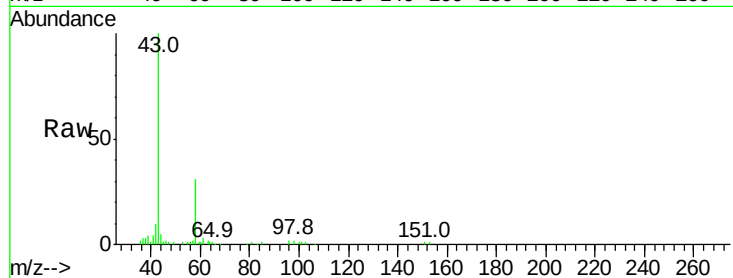
Acq: 10 Apr 2019 13:06

Tgt Ion: 43 Resp: 40702

Ion Ratio Lower Upper

43 100

58 30.8 0.0 64.6



#14

Carbon disulfide

Concen: 28.661 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV010212.D

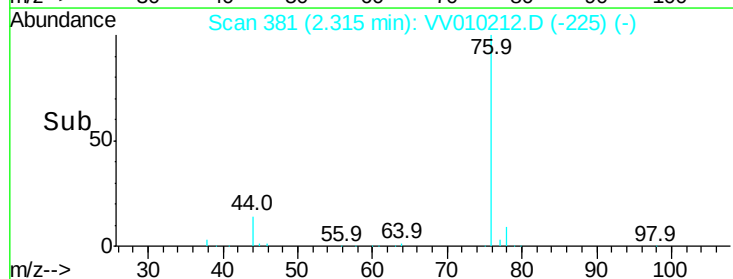
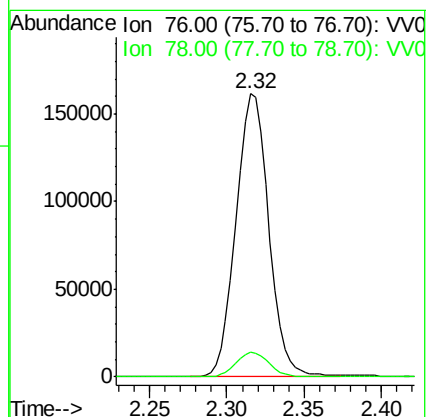
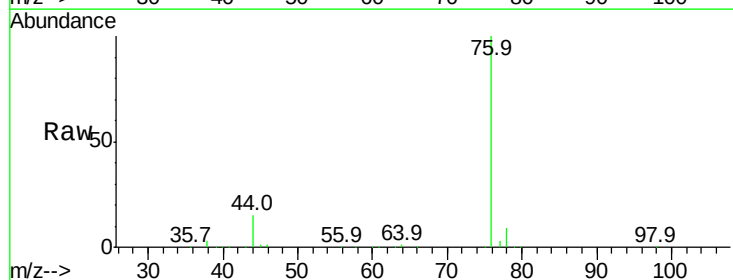
Acq: 10 Apr 2019 13:06

Tgt Ion: 76 Resp: 238149

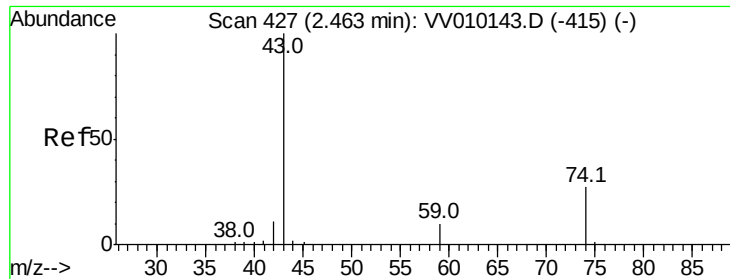
Ion Ratio Lower Upper

76 100

78 8.7 7.1 10.7

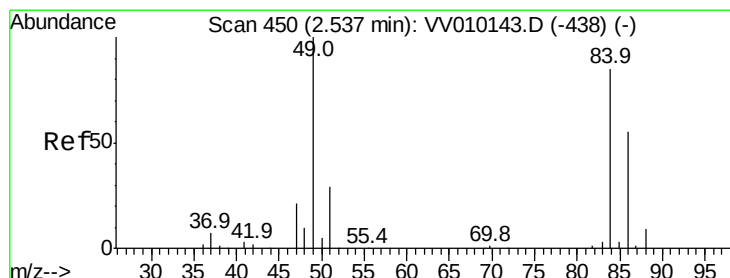
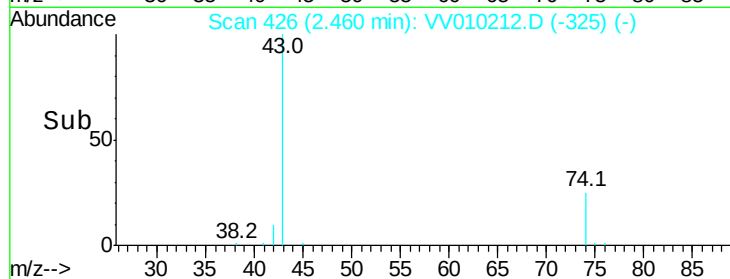
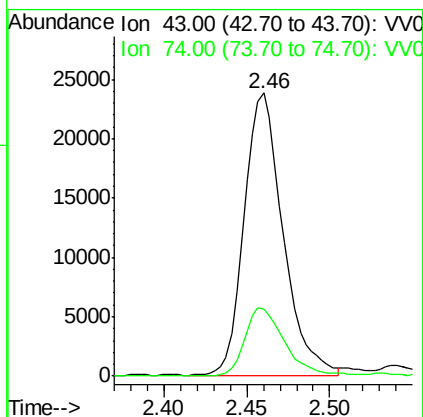
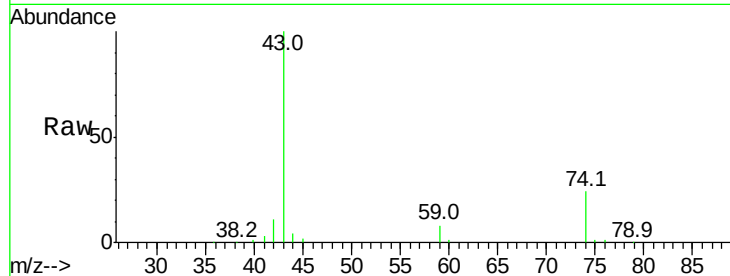






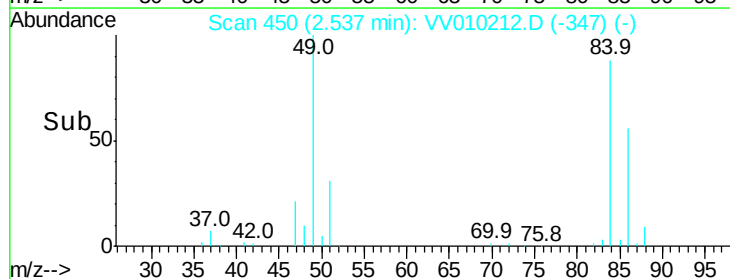
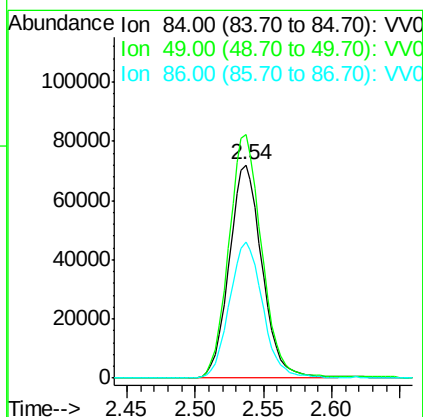
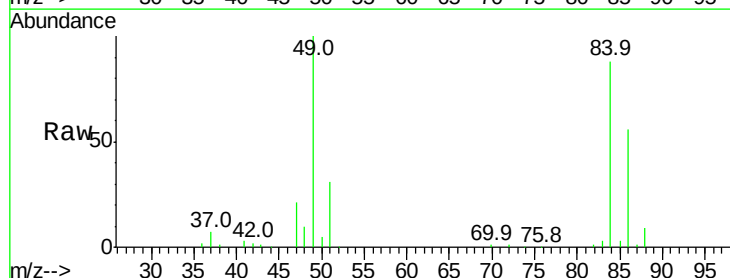
#15  
Methyl Acetate  
Concen: 22.225 ug/L  
RT: 2.46 min Scan# 426  
Delta R.T. -0.01 min  
Lab File: VV010212.D  
Acq: 10 Apr 2019 13:06

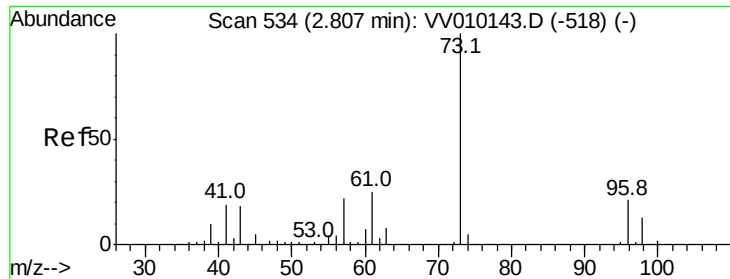
Tgt Ion: 43 Resp: 39226  
Ion Ratio Lower Upper  
43 100  
74 24.1 20.0 30.0



#16  
Methylene chloride  
Concen: 23.419 ug/L  
RT: 2.54 min Scan# 450  
Delta R.T. -0.00 min  
Lab File: VV010212.D  
Acq: 10 Apr 2019 13:06

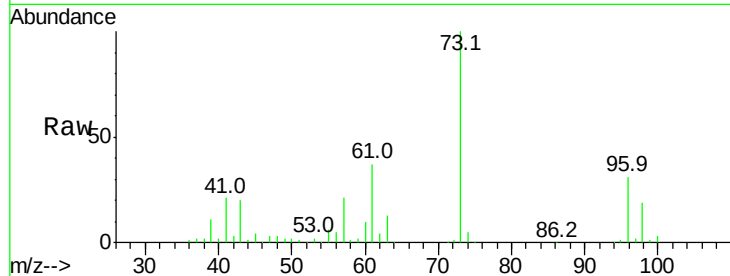
Tgt Ion: 84 Resp: 120497  
Ion Ratio Lower Upper  
84 100  
49 114.2 84.3 156.5  
86 63.6 45.4 84.2



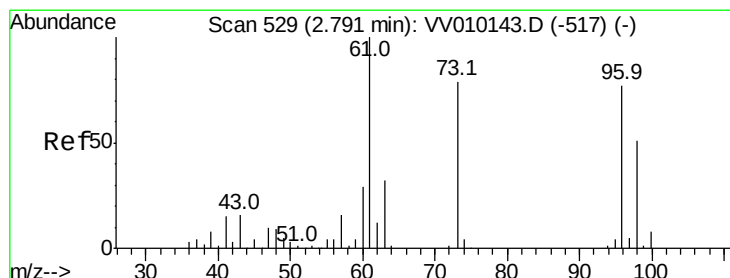
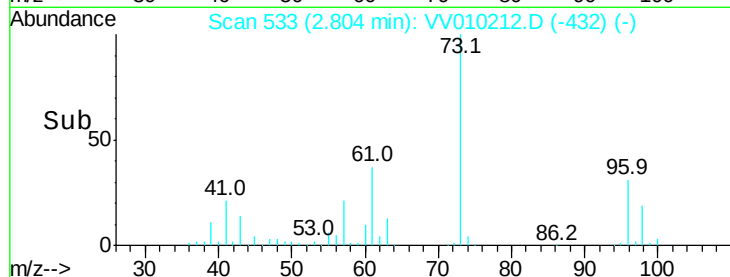
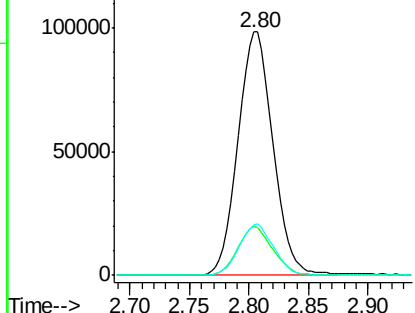


#17  
Methyl tert-butyl Ether  
Concen: 23.378 ug/L  
RT: 2.80 min Scan# 533  
Delta R.T. -0.01 min  
Lab File: VV010212.D  
Acq: 10 Apr 2019 13:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 20.0  | 15.5  | 23.3  |
| 57      | 20.7  | 16.8  | 25.2  |

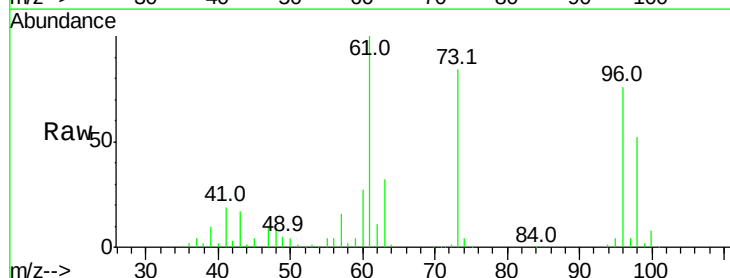


Abundance Ion 73.00 (72.70 to 73.70): VV0  
Ion 43.00 (42.70 to 43.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0

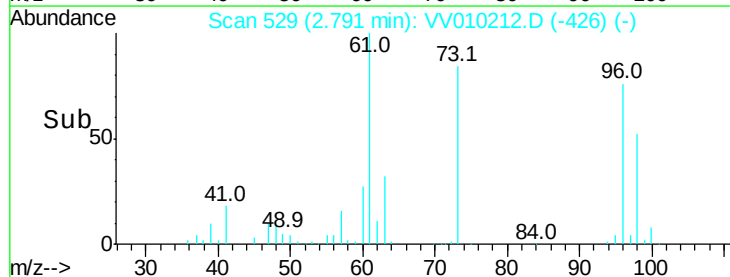
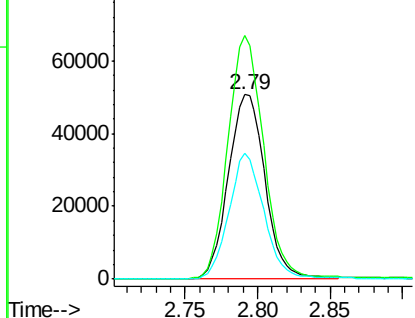


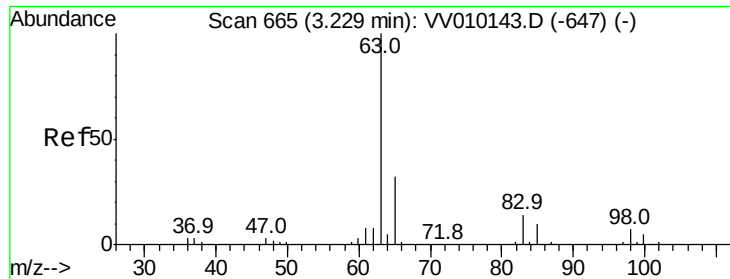
#18  
trans-1,2-Dichloroethene  
Concen: 25.473 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. 0.00 min  
Lab File: VV010212.D  
Acq: 10 Apr 2019 13:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 132.2 | 90.0  | 167.2 |
| 98      | 68.5  | 44.2  | 82.2  |



Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

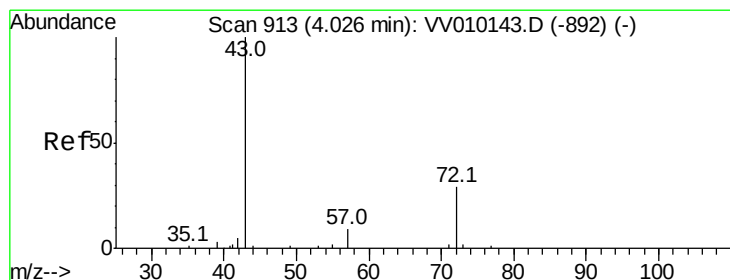
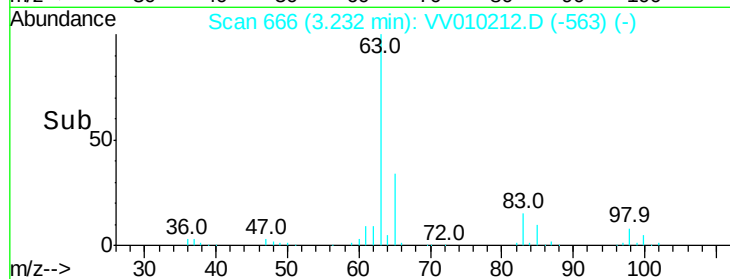
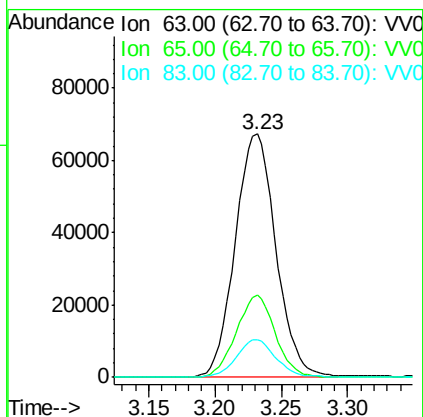
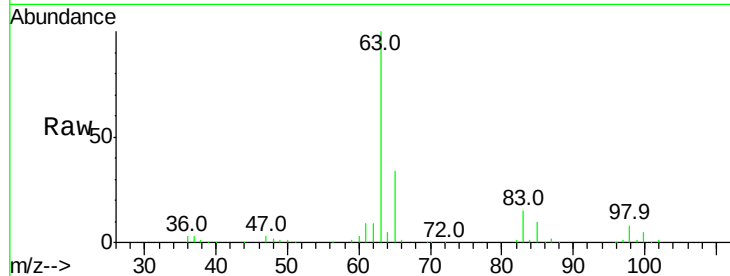




#19  
 1,1-Dichloroethane  
 Concen: 24.199 ug/L  
 RT: 3.23 min Scan# 666  
 Delta R.T. -0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

Tgt Ion: 63 Resp: 143788

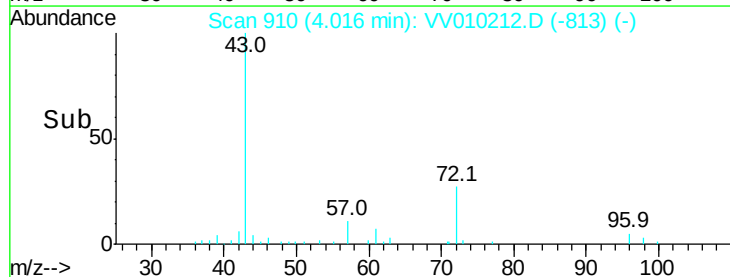
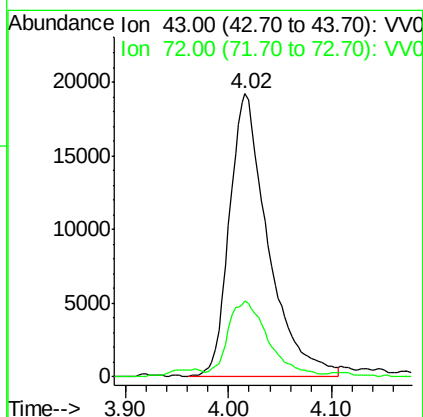
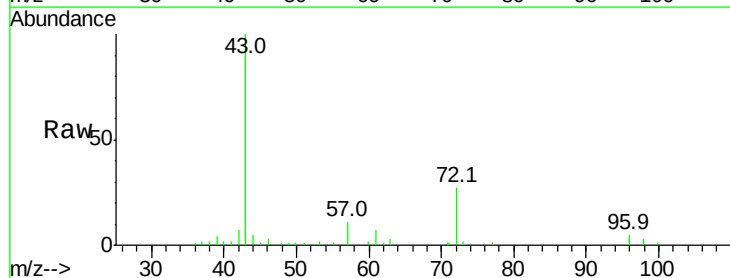
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 34.0  | 22.3  | 41.3  |
| 83  | 15.4  | 10.4  | 19.4  |

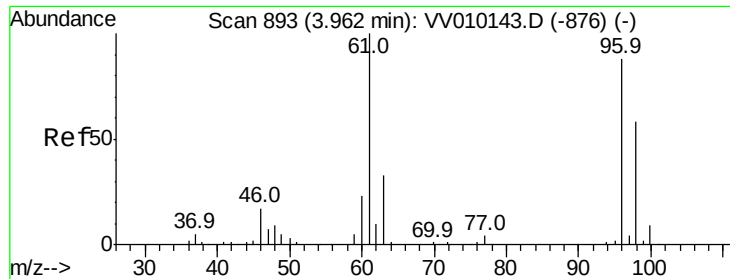


#21  
 2-Butanone  
 Concen: 41.595 ug/L  
 RT: 4.02 min Scan# 910  
 Delta R.T. -0.02 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

Tgt Ion: 43 Resp: 50245

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 26.9  | 12.8  | 38.4  |

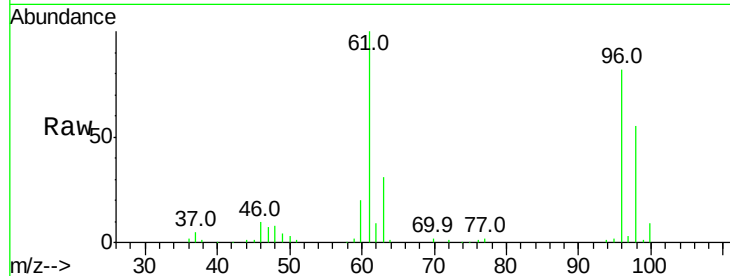




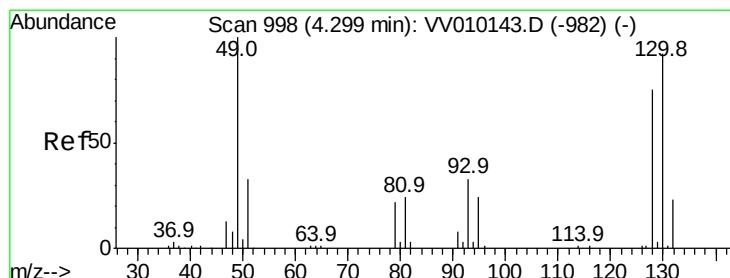
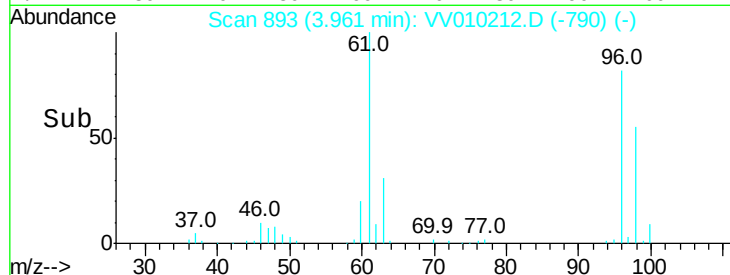
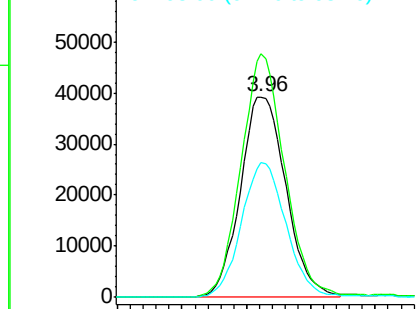
#22

cis-1,2-Dichloroethene  
Concen: 24.933 ug/L  
RT: 3.96 min Scan# 893  
Delta R.T. 0.00 min  
Lab File: VV010212.D  
Acq: 10 Apr 2019 13:06

Tgt Ion: 96 Resp: 96819  
Ion Ratio Lower Upper  
96 100  
61 121.3 82.7 153.5  
98 67.2 43.9 81.5



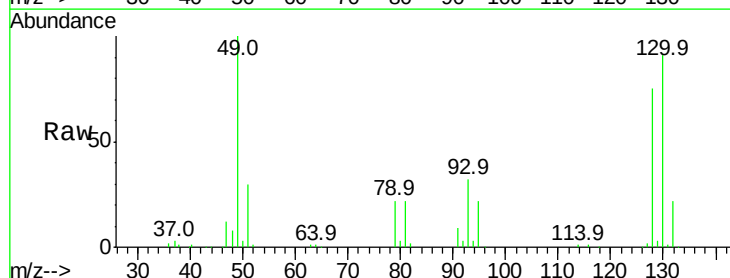
Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0



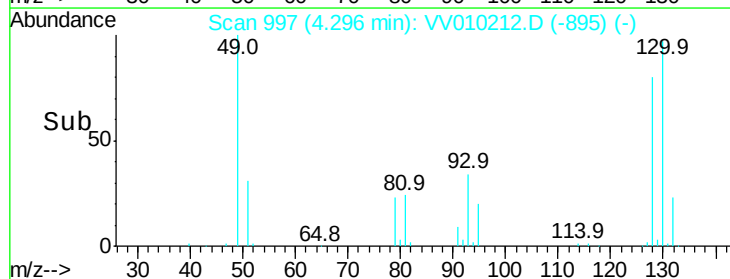
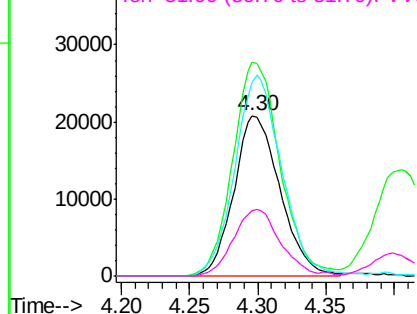
#23

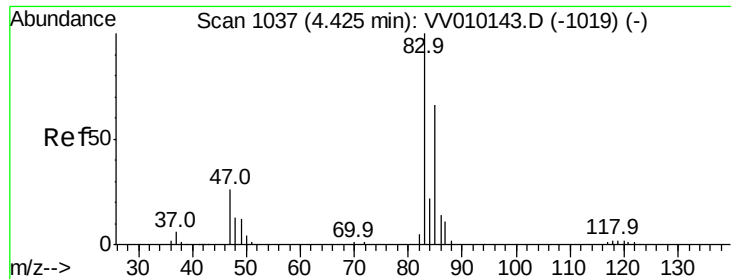
Bromochloromethane  
Concen: 25.942 ug/L  
RT: 4.30 min Scan# 997  
Delta R.T. -0.00 min  
Lab File: VV010212.D  
Acq: 10 Apr 2019 13:06

Tgt Ion: 128 Resp: 48878  
Ion Ratio Lower Upper  
128 100  
49 133.4 92.8 172.4  
130 120.7 80.6 149.6  
51 40.6 33.1 49.7



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VV0  
Ion 130.00 (129.70 to 130.70): V  
Ion 51.00 (50.70 to 51.70): VV0





#25

Chloroform

Concen: 26.235 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. -0.00 min

Lab File: VV010212.D

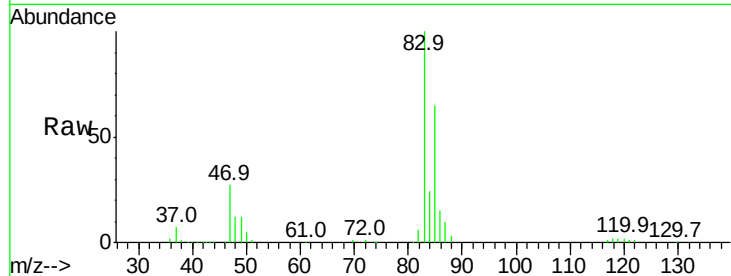
Acq: 10 Apr 2019 13:06

Tgt Ion: 83 Resp: 174692

Ion Ratio Lower Upper

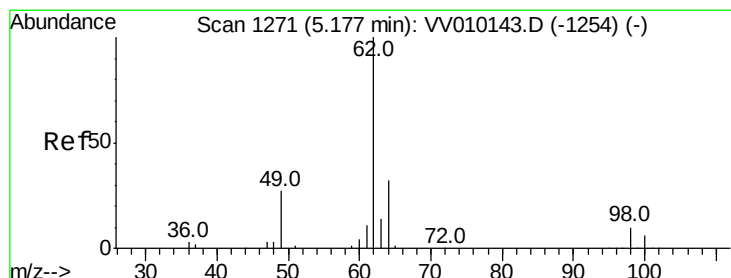
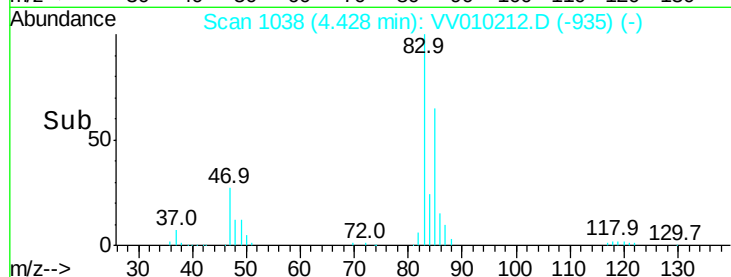
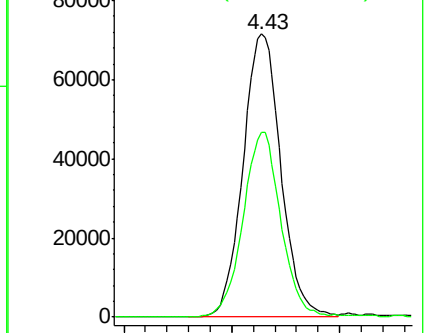
83 100

85 64.8 46.4 86.2



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#27

1,2-Dichloroethane

Concen: 24.677 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VV010212.D

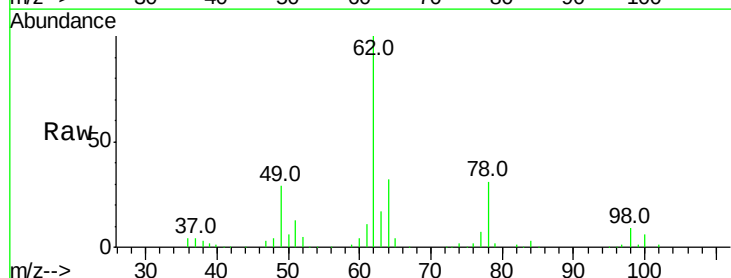
Acq: 10 Apr 2019 13:06

Tgt Ion: 62 Resp: 112088

Ion Ratio Lower Upper

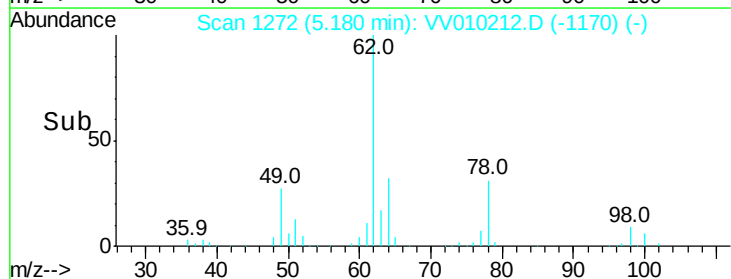
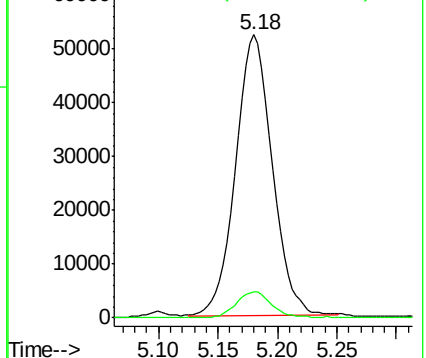
62 100

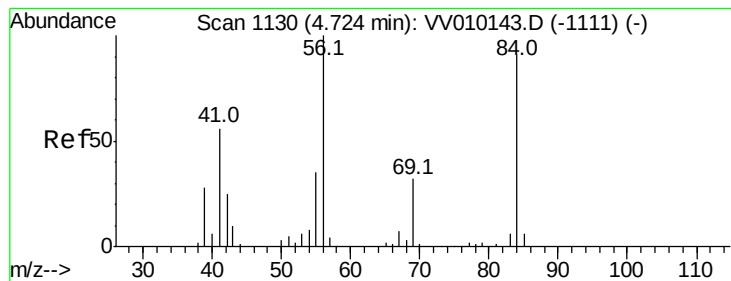
98 9.3 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#30

Cyclohexane

Concen: 24.719 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

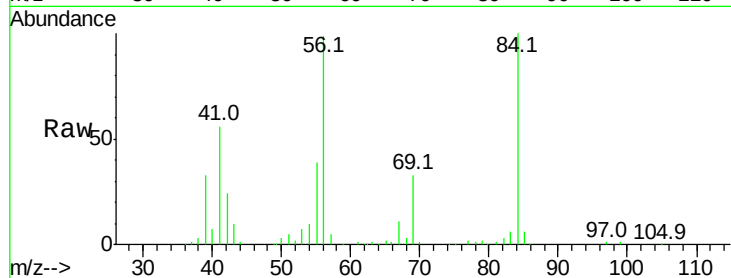
Tgt Ion: 56 Resp: 126244

Ion Ratio Lower Upper

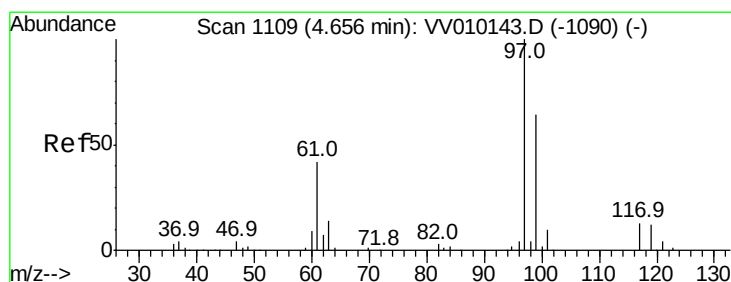
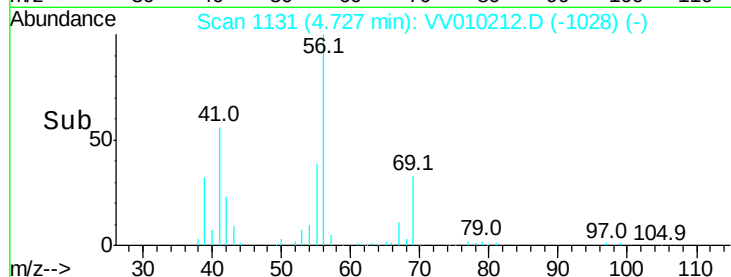
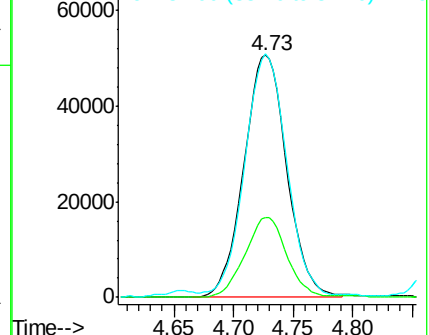
56 100

69 32.1 25.1 37.7

84 96.9 76.0 114.0



Abundance Ion 56.00 (55.70 to 56.70): VV0  
Ion 69.00 (68.70 to 69.70): VV0  
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 24.888 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

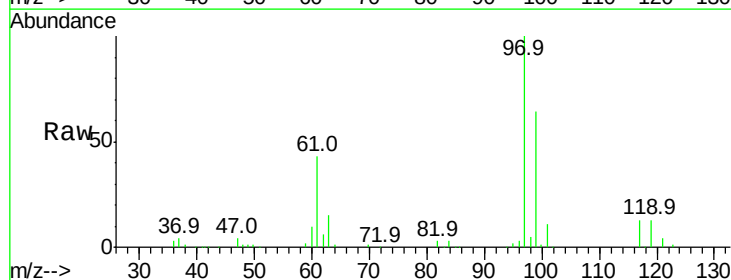
Tgt Ion: 97 Resp: 143605

Ion Ratio Lower Upper

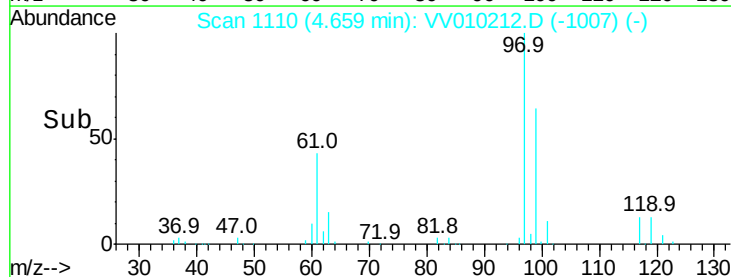
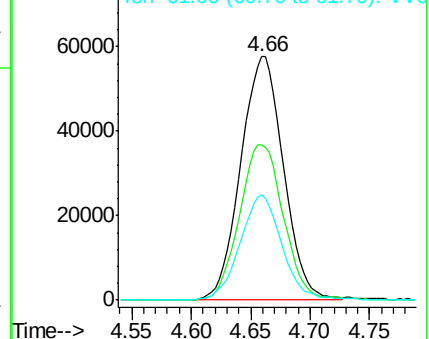
97 100

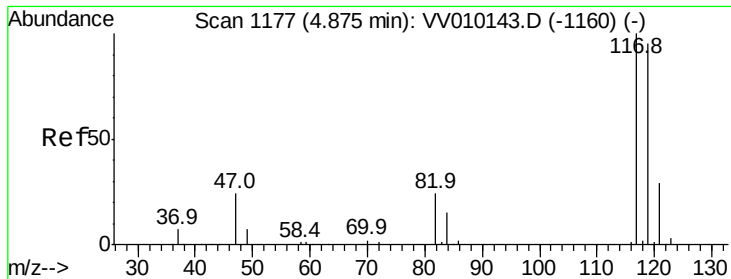
99 65.2 52.4 78.6

61 41.7 34.1 51.1



Abundance Ion 97.00 (96.70 to 97.70): VV0  
Ion 99.00 (98.70 to 99.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 25.847 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV010212.D

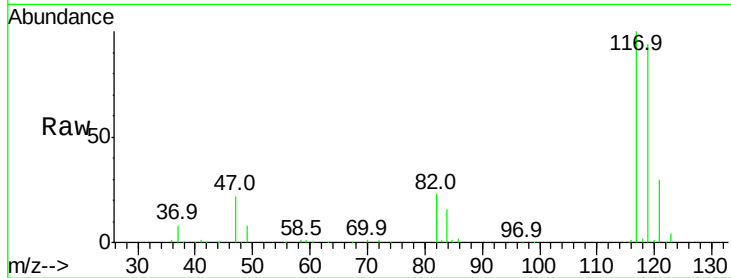
Acq: 10 Apr 2019 13:06

Tgt Ion:117 Resp: 133301

Ion Ratio Lower Upper

117 100

119 97.0 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

60000

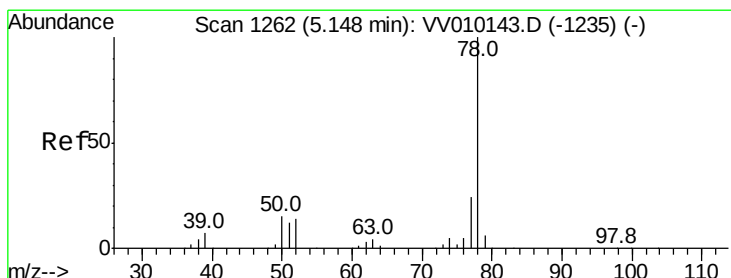
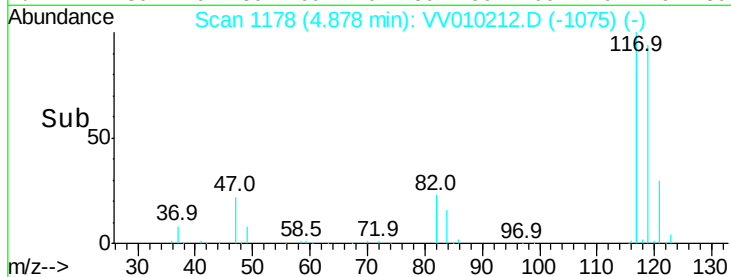
40000

20000

0

4.80 4.85 4.90 4.95

Time-->



#34

Benzene

Concen: 25.368 ug/L

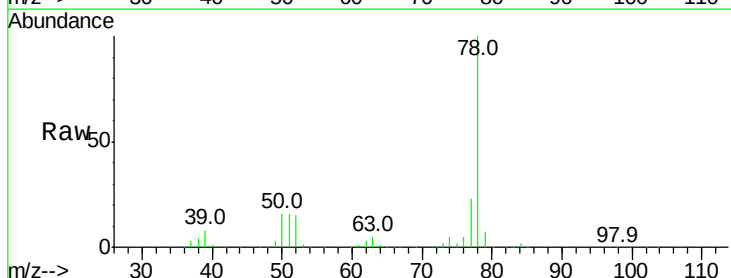
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

Tgt Ion: 78 Resp: 350987



Abundance Ion 78.00 (77.70 to 78.70): VV0

150000

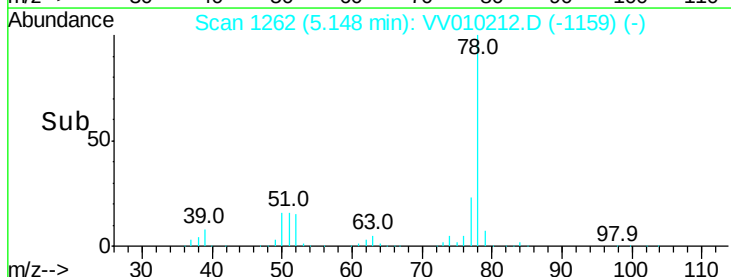
100000

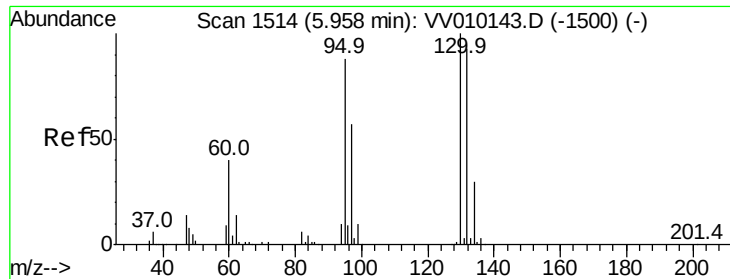
50000

0

5.00 5.10 5.20

Time-->





#35

Trichloroethene

Concen: 25.475 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

Tgt Ion: 95 Resp: 101451

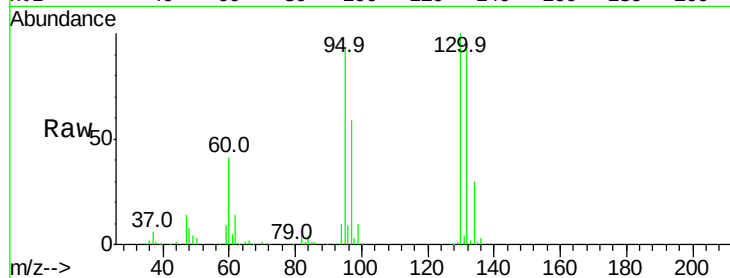
Ion Ratio Lower Upper

95 100

97 63.3 45.8 85.2

132 101.8 70.6 131.0

130 104.9 76.1 141.3

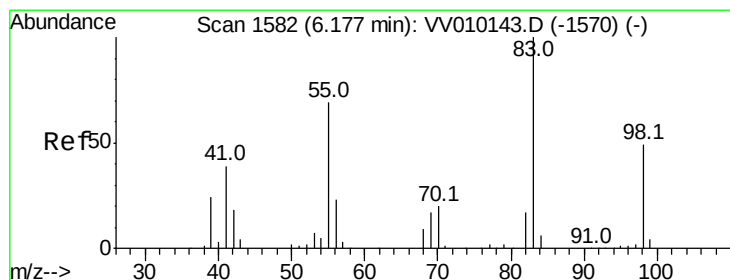
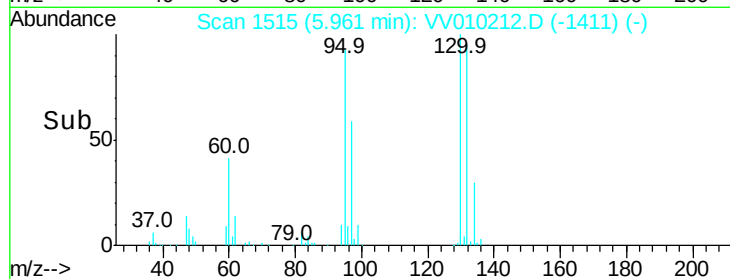
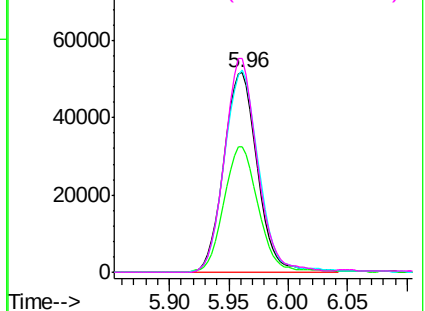


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 25.490 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

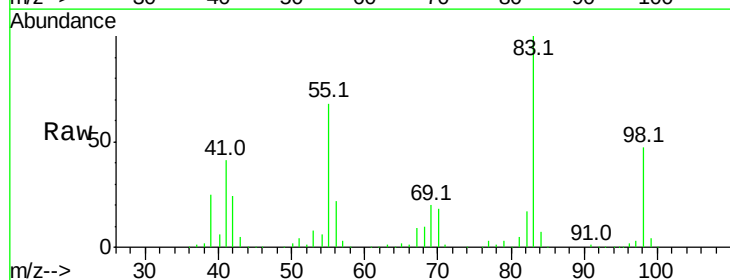
Tgt Ion: 83 Resp: 152072

Ion Ratio Lower Upper

83 100

55 69.6 56.3 84.5

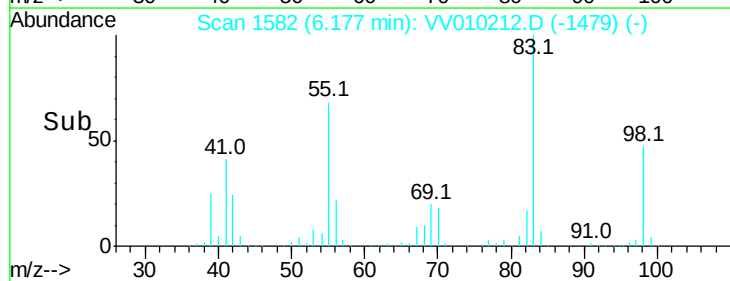
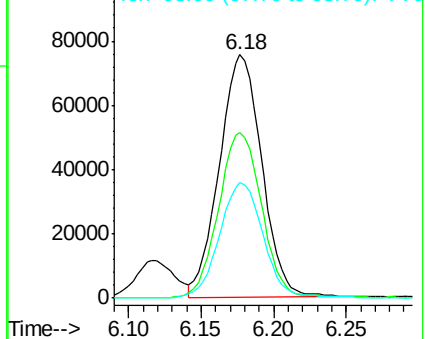
98 49.3 39.0 58.6



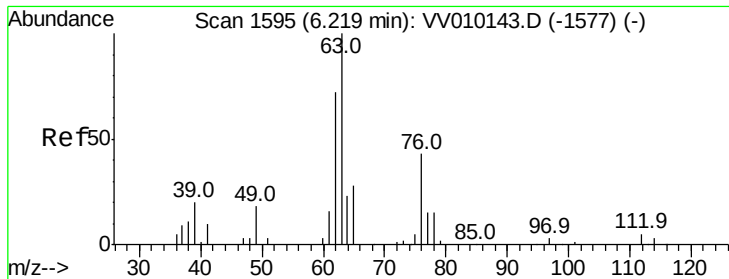
Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0







#40

1,2-Dichloropropane

Concen: 23.378 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VV010212.D

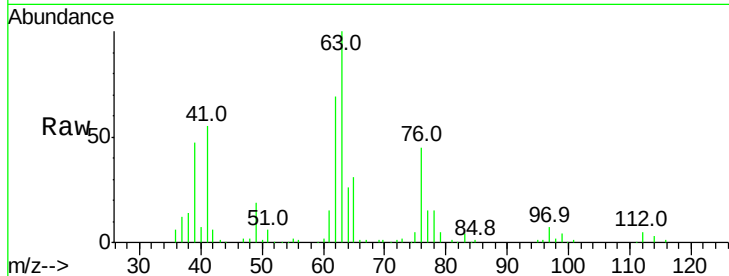
Acq: 10 Apr 2019 13:06

Tgt Ion: 63 Resp: 81725

Ion Ratio Lower Upper

63 100

112 5.0 3.6 5.4

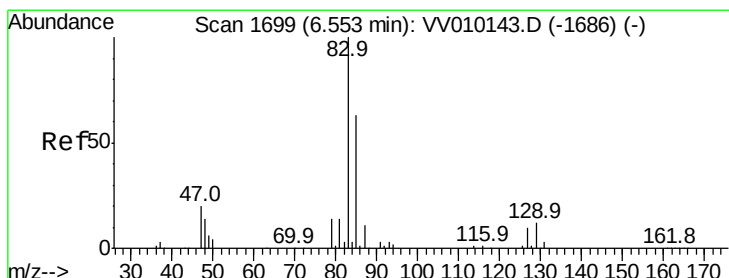
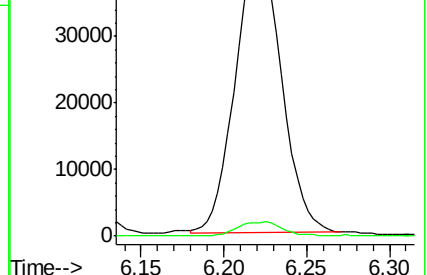
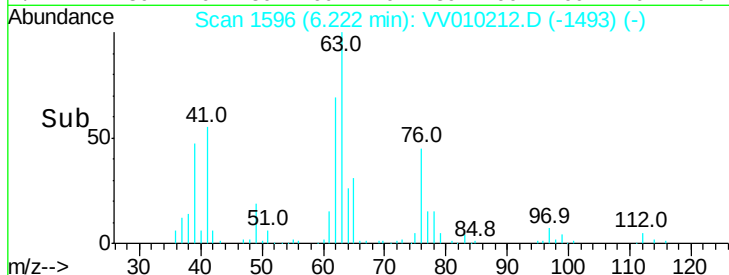


Abundance Ion 63.00 (62.70 to 63.70): VV010212.D (-1597) (-)

Ion 112.00 (111.70 to 112.70): VV010212.D (-1597) (-)

6.22

Time-->



#41

Bromodichloromethane

Concen: 25.337 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

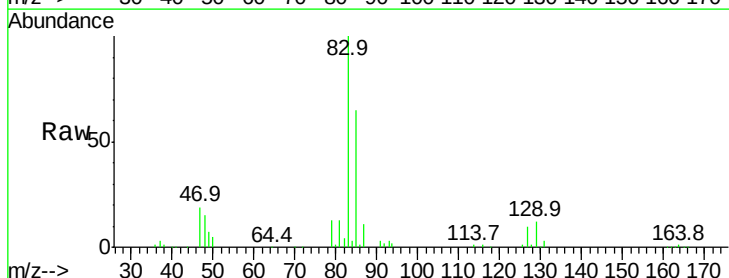
Tgt Ion: 83 Resp: 115190

Ion Ratio Lower Upper

83 100

85 65.3 47.5 88.3

127 10.2 7.7 11.5



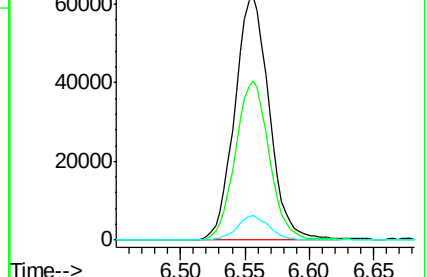
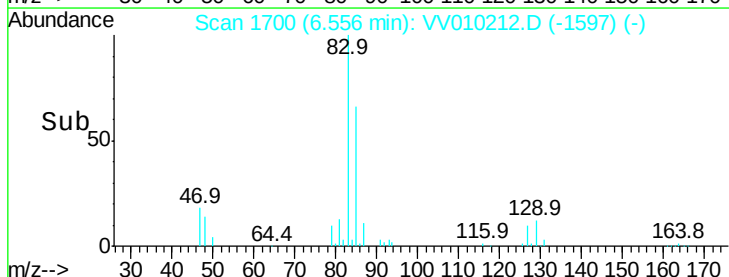
Abundance Ion 83.00 (82.70 to 83.70): VV010212.D (-1597) (-)

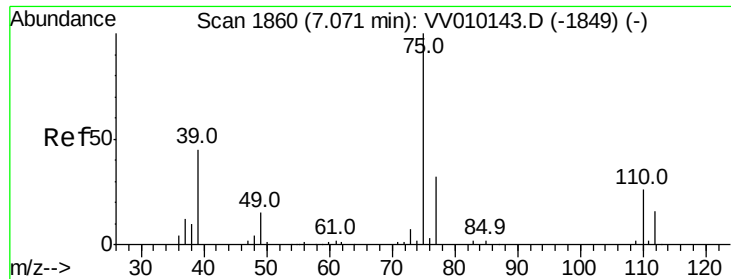
Ion 85.00 (84.70 to 85.70): VV010212.D (-1597) (-)

Ion 127.00 (126.70 to 127.70): VV010212.D (-1597) (-)

6.56

Time-->





#42

cis-1,3-Dichloropropene

Concen: 25.944 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV010212.D

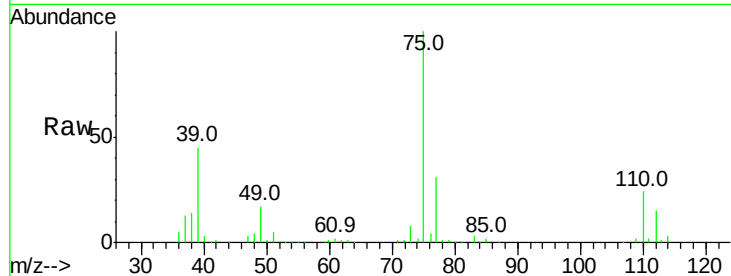
Acq: 10 Apr 2019 13:06

Tgt Ion: 75 Resp: 131285

Ion Ratio Lower Upper

75 100

77 31.3 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.07

80000

60000

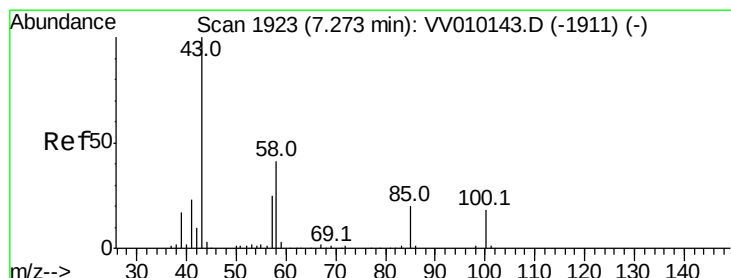
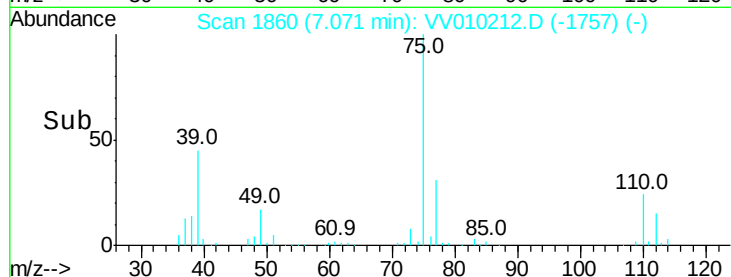
40000

20000

0

7.00 7.05 7.10 7.15

Time-->



#43

4-Methyl-2-pentanone

Concen: 42.973 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. -0.01 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

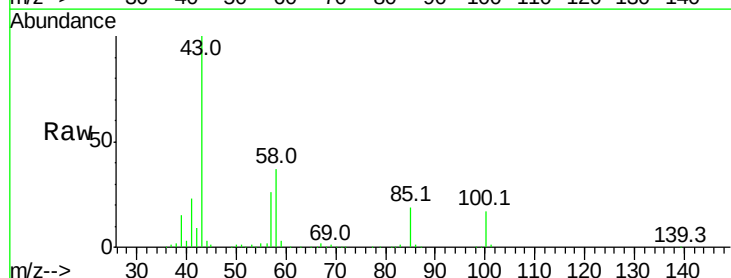
Tgt Ion: 43 Resp: 111149

Ion Ratio Lower Upper

43 100

58 38.0 31.5 47.3

100 16.9 13.4 20.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0

150000

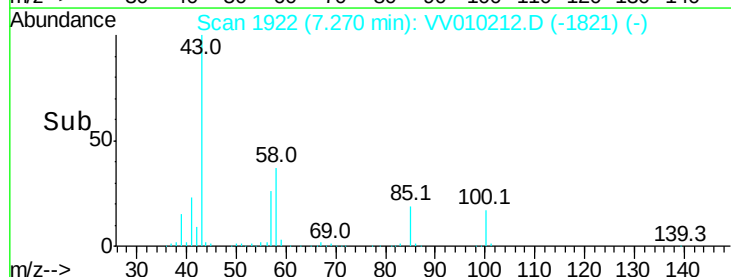
100000

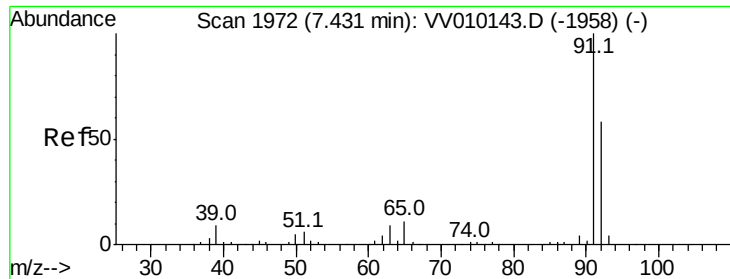
50000

0

7.20 7.25 7.30 7.35

Time-->





#44

Toluene

Concen: 25.622 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010212.D

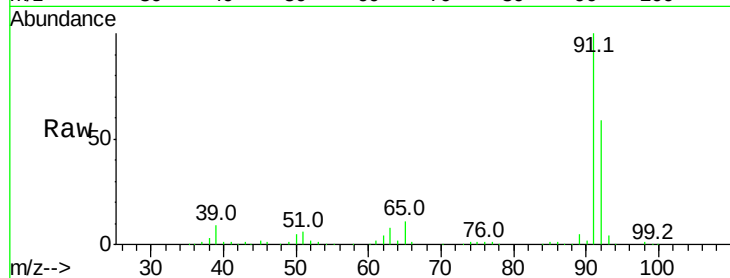
Acq: 10 Apr 2019 13:06

Tgt Ion: 91 Resp: 397854

Ion Ratio Lower Upper

91 100

92 58.6 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV010212.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV010212.D (-1958) (-)

7.43

250000

200000

150000

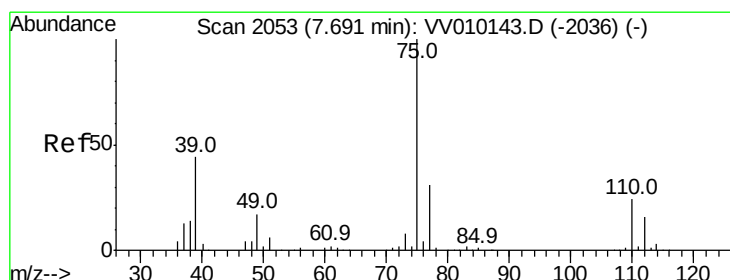
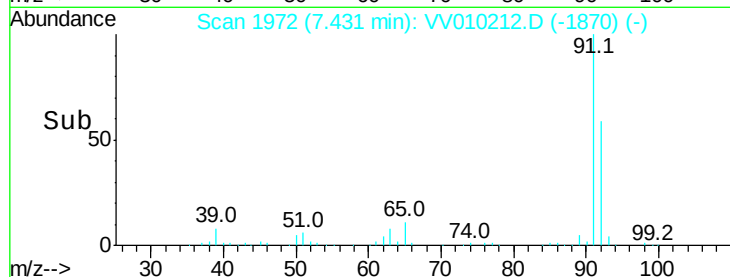
100000

50000

0

Time-->

7.35 7.40 7.45 7.50 7.55



#45

trans-1,3-Dichloropropene

Concen: 26.603 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV010212.D

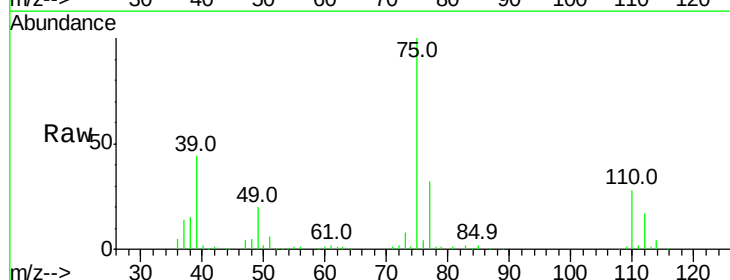
Acq: 10 Apr 2019 13:06

Tgt Ion: 75 Resp: 114493

Ion Ratio Lower Upper

75 100

77 32.0 23.5 43.7



Abundance Ion 75.00 (74.70 to 75.70): VV010212.D (-1951) (-)

Ion 77.00 (76.70 to 77.70): VV010212.D (-1951) (-)

7.69

60000

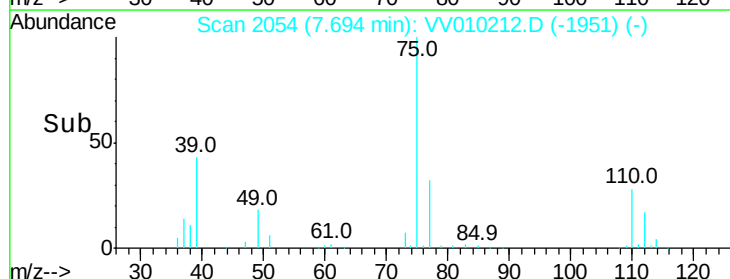
40000

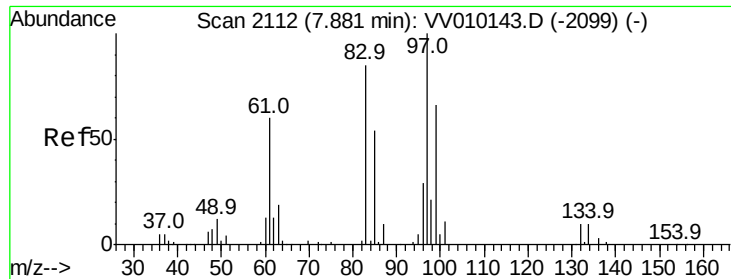
20000

0

Time-->

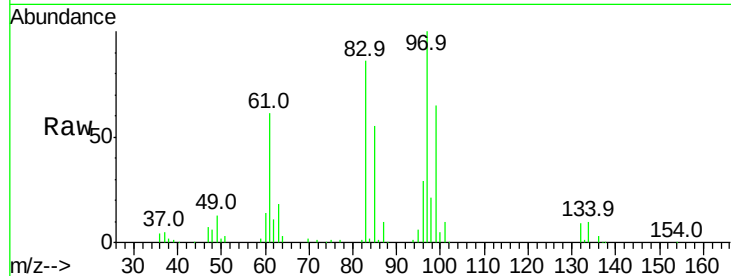
7.60 7.65 7.70 7.75





#46  
1,1,2-Trichloroethane  
Concen: 23.458 ug/L  
RT: 7.88 min Scan# 2112  
Delta R.T. -0.00 min  
Lab File: VV010212.D  
Acq: 10 Apr 2019 13:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 72713 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 86.5  | 58.5  | 108.7 |
| 85       | 55.4  | 37.2  | 69.2  |
| 99       | 65.1  | 43.3  | 80.3  |



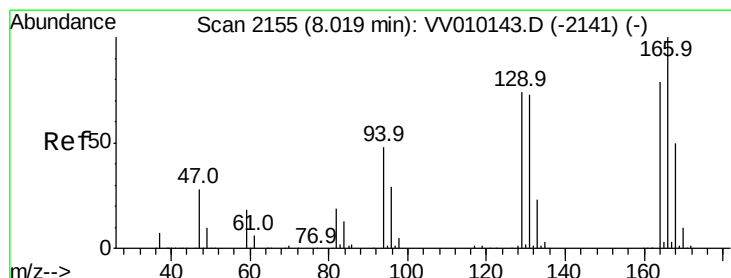
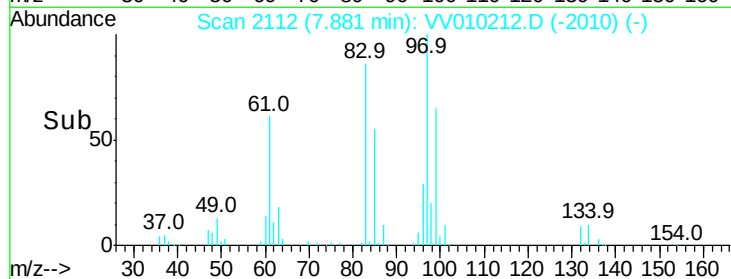
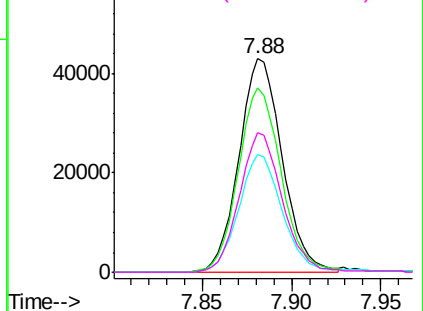
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

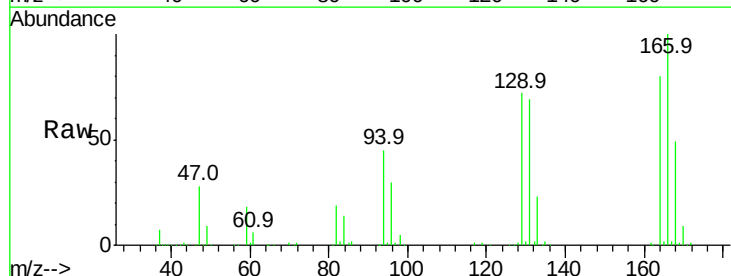
Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47  
Tetrachloroethene  
Concen: 26.807 ug/L  
RT: 8.02 min Scan# 2155  
Delta R.T. 0.00 min  
Lab File: VV010212.D  
Acq: 10 Apr 2019 13:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 89358 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 89.4  | 67.8  | 125.8 |
| 131      | 85.7  | 65.2  | 121.0 |
| 166      | 124.8 | 93.8  | 174.2 |



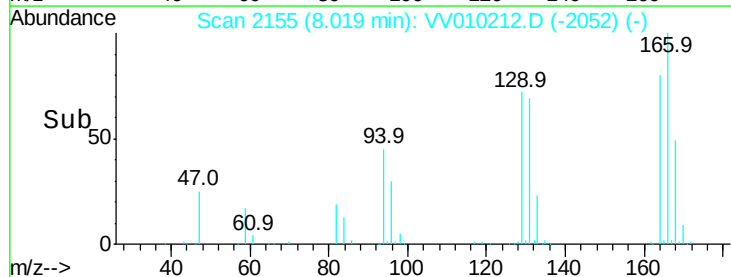
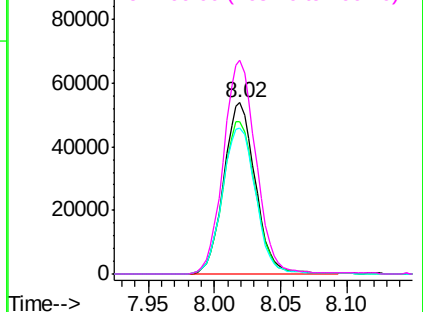
Abundance

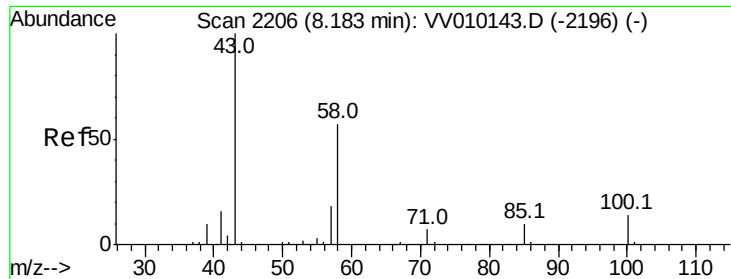
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 40.066 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

Tgt Ion: 43 Resp: 74019

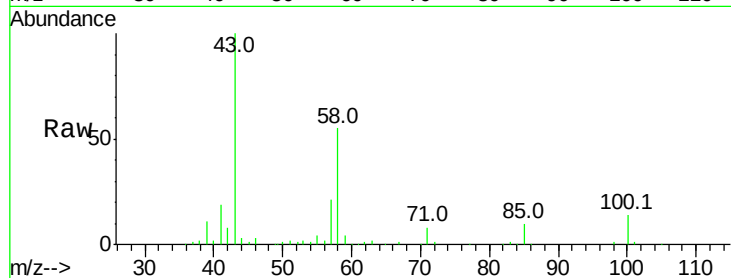
Ion Ratio Lower Upper

43 100

58 53.5 44.3 66.5

57 20.3 13.8 20.8

100 13.9 10.6 15.8

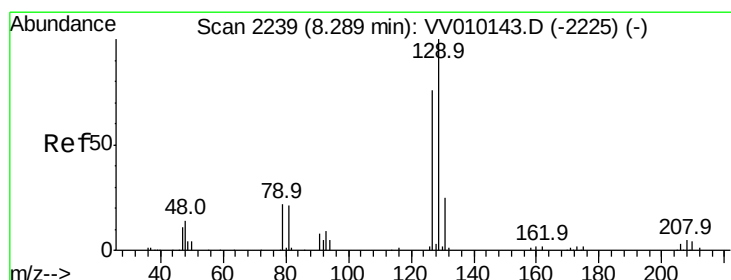
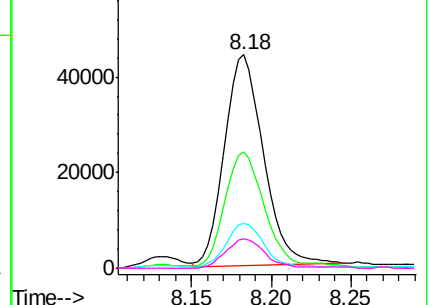
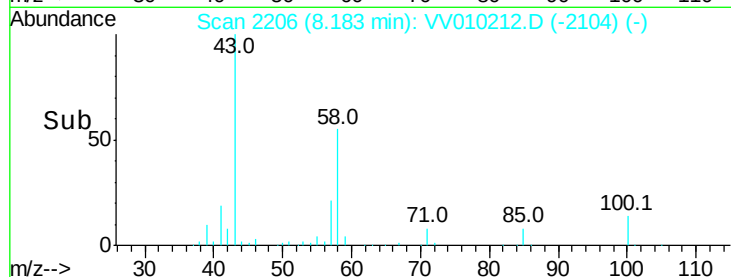


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0



#50

Dibromochloromethane

Concen: 26.166 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VV010212.D

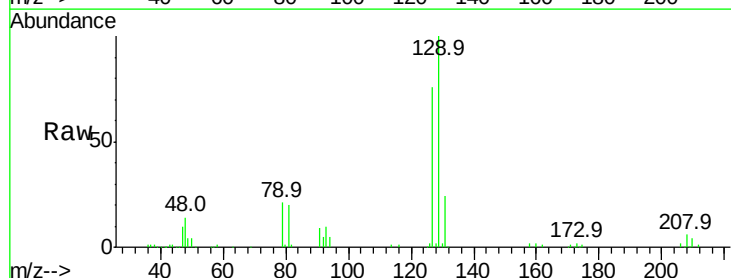
Acq: 10 Apr 2019 13:06

Tgt Ion: 129 Resp: 90921

Ion Ratio Lower Upper

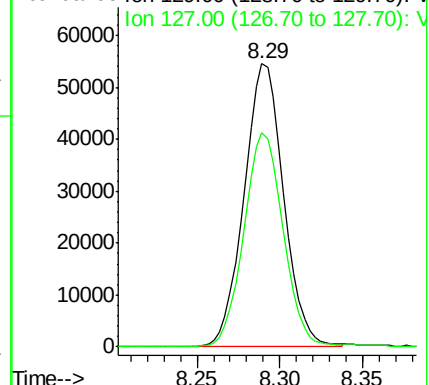
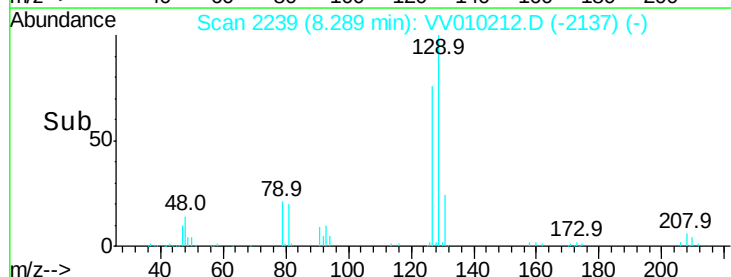
129 100

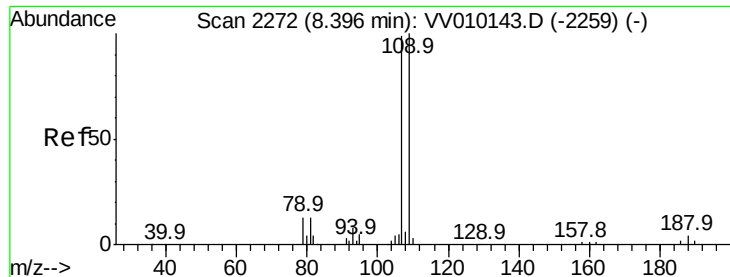
127 75.5 52.1 96.7



Abundance Ion 129.00 (128.70 to 129.70): V

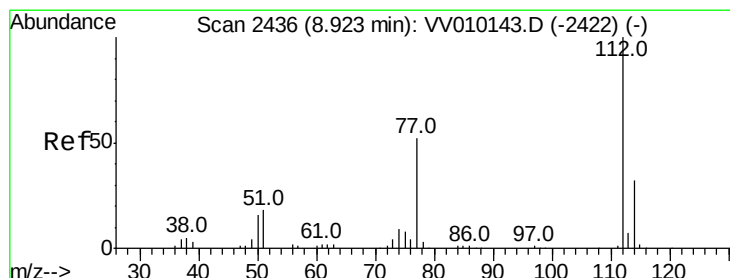
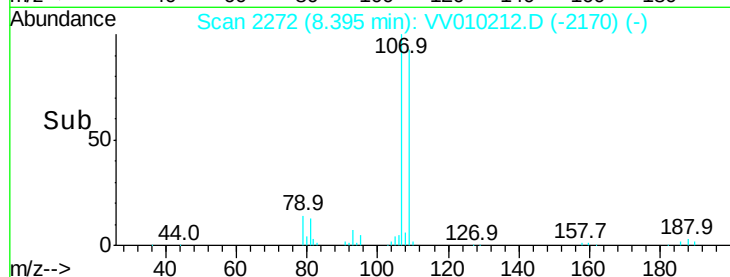
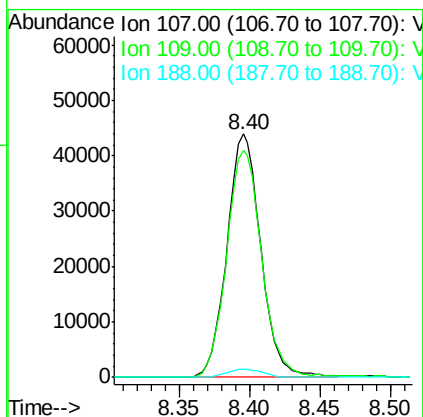
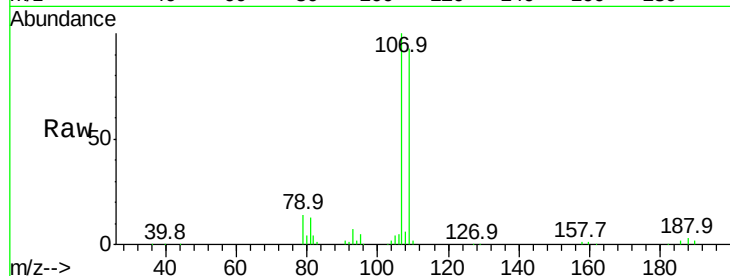
Ion 127.00 (126.70 to 127.70): V





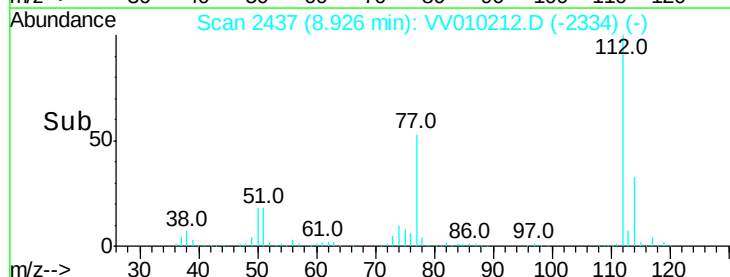
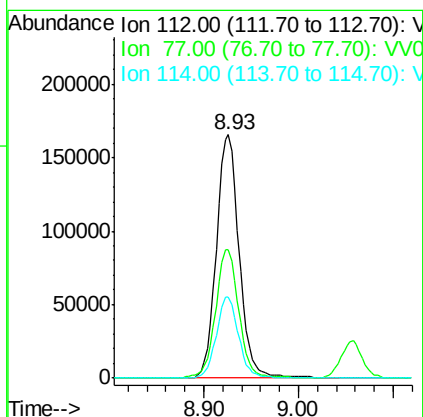
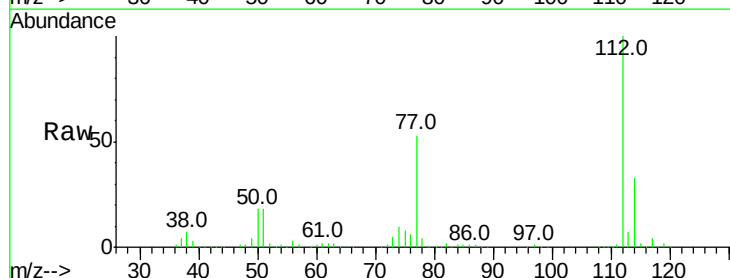
#51  
 1,2-Dibromoethane  
 Concen: 24.084 ug/L  
 RT: 8.40 min Scan# 2272  
 Delta R.T. -0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

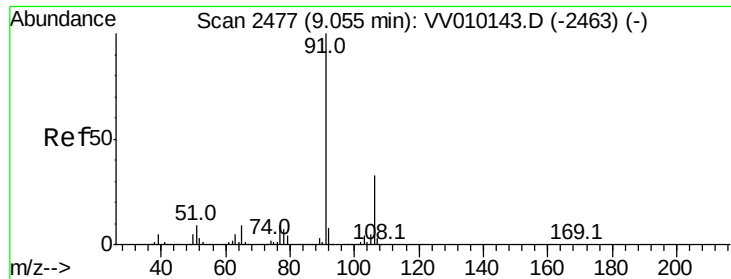
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 73778 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 93.1  | 66.5  | 123.5 |
| 188      | 3.4   | 3.3   | 4.9   |



#52  
 Chlorobenzene  
 Concen: 26.116 ug/L  
 RT: 8.93 min Scan# 2437  
 Delta R.T. 0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 276613 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 77       | 52.7  | 42.9  | 64.3   |
| 114      | 33.4  | 23.4  | 43.4   |





#53

Ethylbenzene

Concen: 26.279 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. -0.00 min

Lab File: VV010212.D

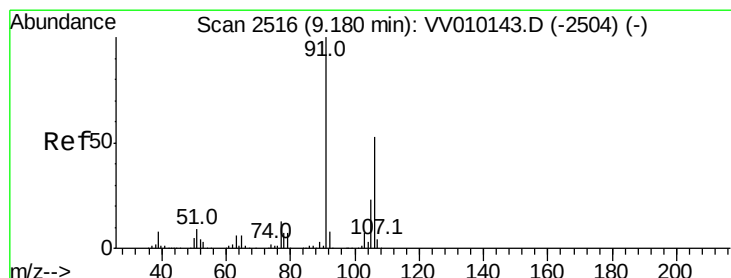
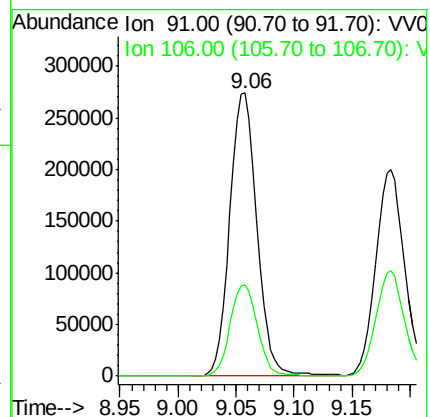
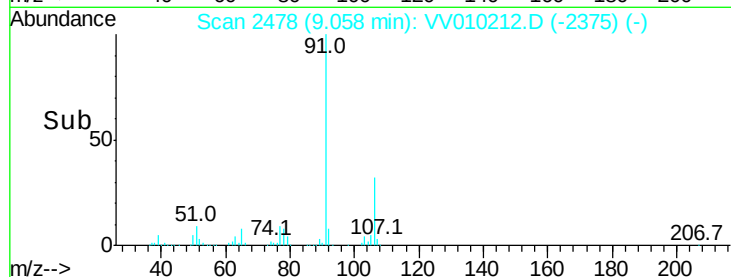
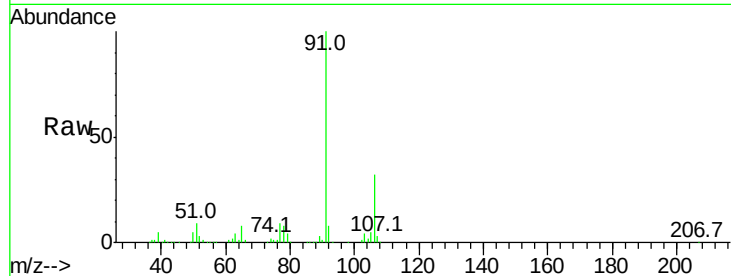
Acq: 10 Apr 2019 13:06

Tgt Ion: 91 Resp: 447457

Ion Ratio Lower Upper

91 100

106 32.2 23.1 42.9



#54

m,p-Xylene

Concen: 26.249 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV010212.D

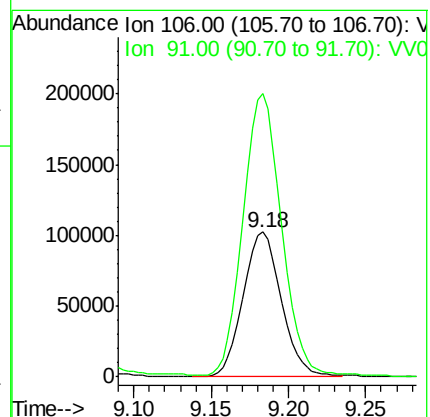
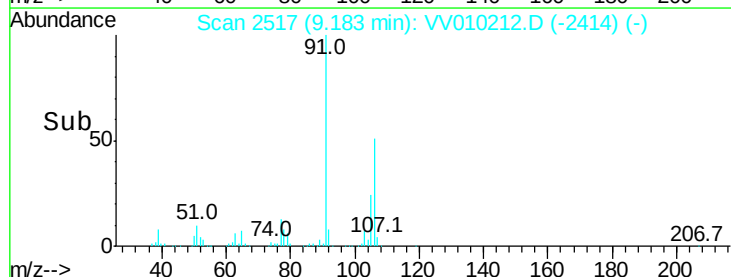
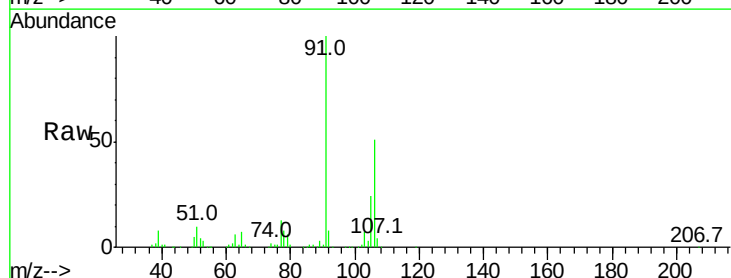
Acq: 10 Apr 2019 13:06

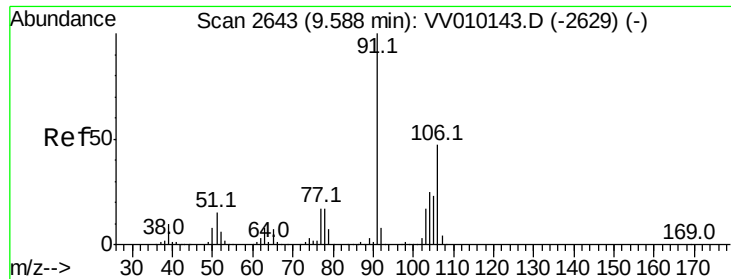
Tgt Ion: 106 Resp: 173965

Ion Ratio Lower Upper

106 100

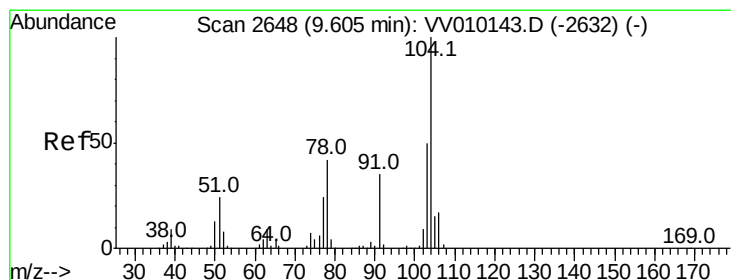
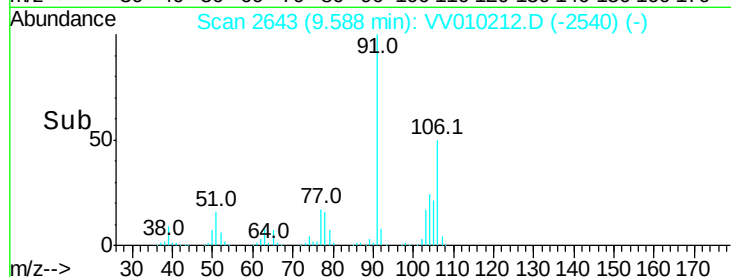
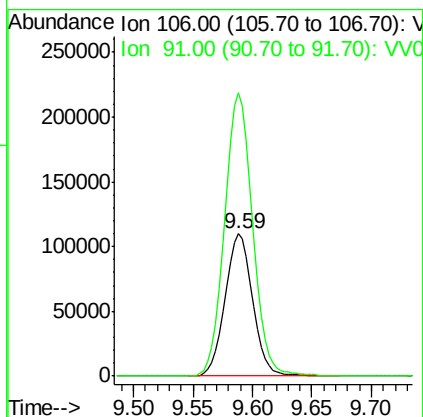
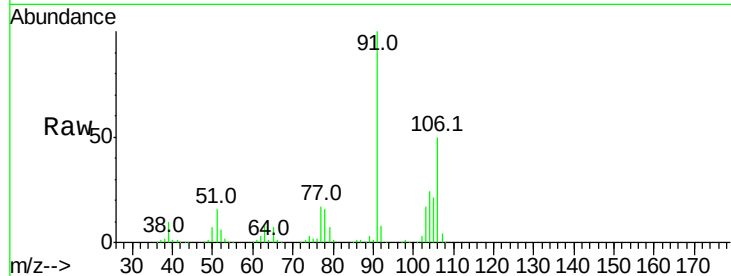
91 195.1 139.3 258.7





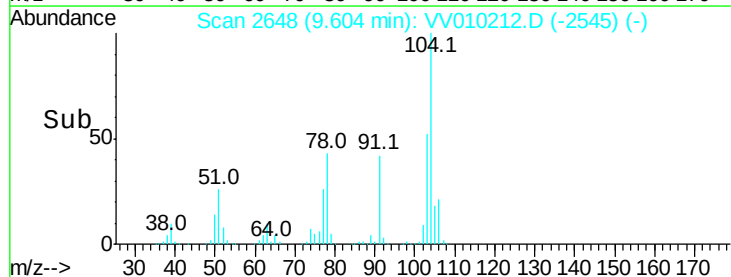
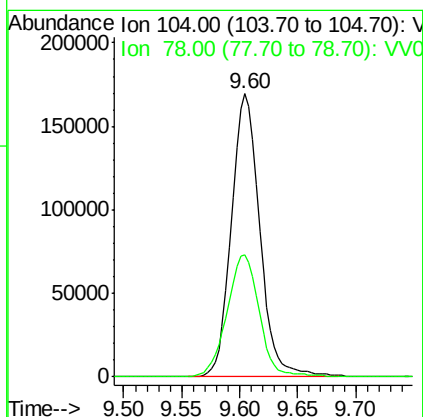
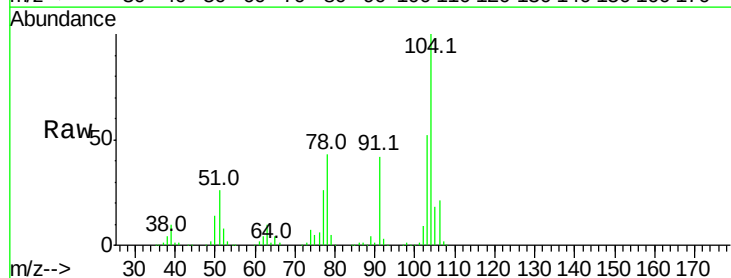
#55  
o-xylene  
Concen: 27.521 ug/L  
RT: 9.59 min Scan# 2643  
Delta R.T. 0.00 min  
Lab File: VV010212.D  
Acq: 10 Apr 2019 13:06

Tgt Ion:106 Resp: 176707  
Ion Ratio Lower Upper  
106 100  
91 199.2 150.4 279.2

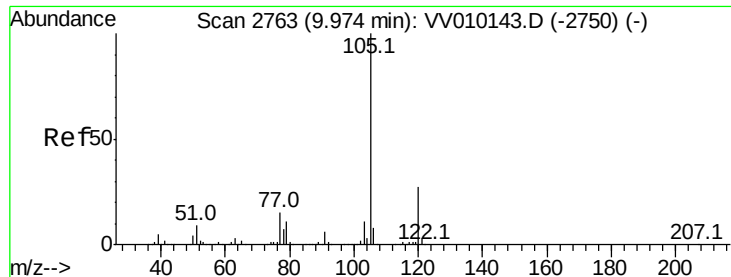


#56  
Styrene  
Concen: 27.040 ug/L  
RT: 9.60 min Scan# 2648  
Delta R.T. -0.00 min  
Lab File: VV010212.D  
Acq: 10 Apr 2019 13:06

Tgt Ion:104 Resp: 287193  
Ion Ratio Lower Upper  
104 100  
78 43.3 30.5 56.7







#57

Isopropylbenzene

Concen: 26.708 ug/L

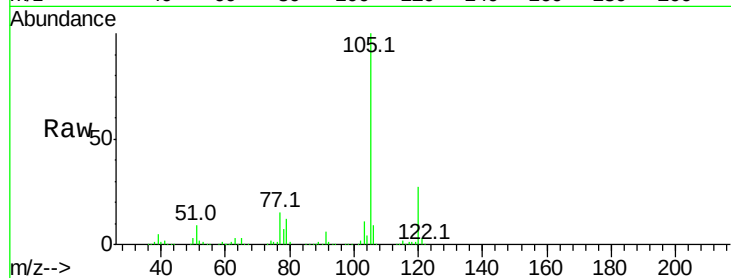
RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

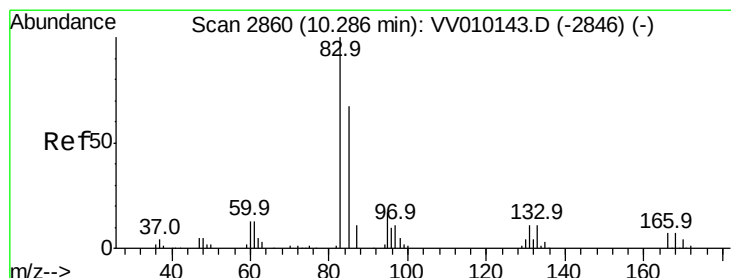
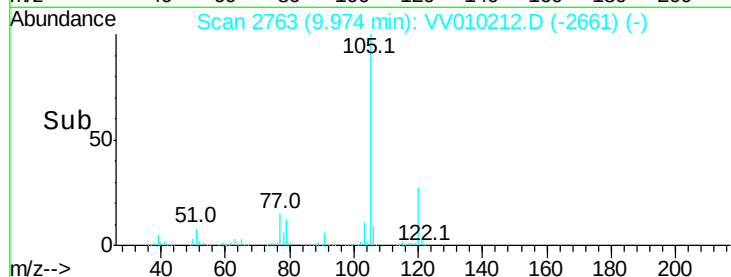
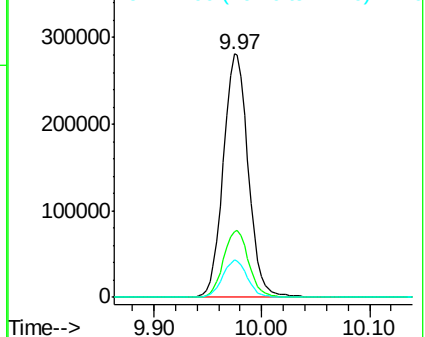
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 452249 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 27.7  | 21.5  | 32.3   |
| 77       | 15.3  | 12.4  | 18.6   |



Abundance Ion 105.00 (104.70 to 105.70): VV010212.D (-2661) (-)

Ion 120.00 (119.70 to 120.70): VV010212.D (-2661) (-)

Ion 77.00 (76.70 to 77.70): VV010212.D (-2661) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 22.953 ug/L

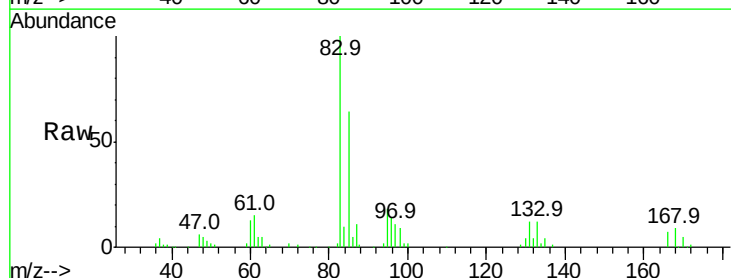
RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

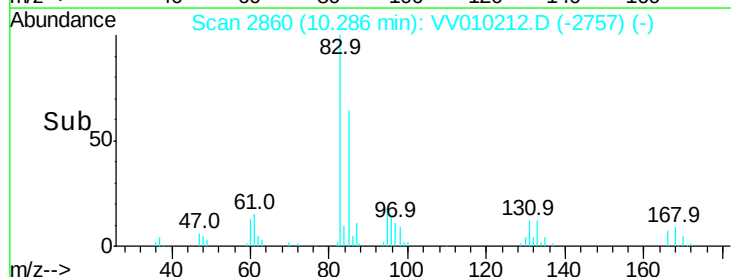
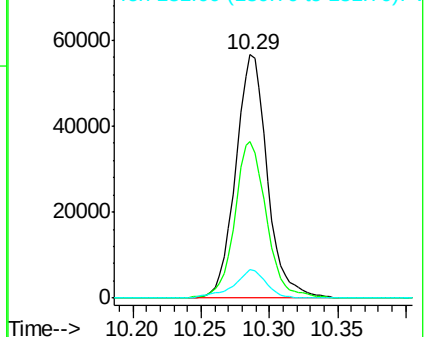
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 91383 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 64.2  | 46.1  | 85.7  |
| 131      | 11.5  | 9.0   | 13.4  |

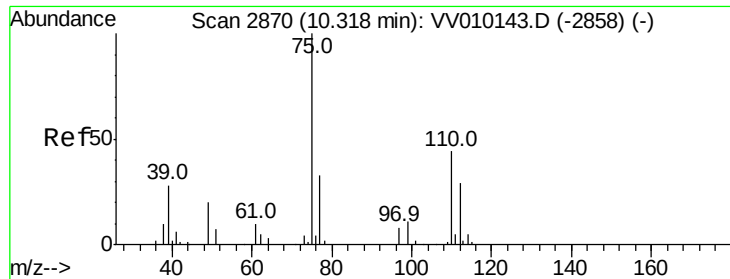


Abundance Ion 83.00 (82.70 to 83.70): VV010212.D (-2757) (-)

Ion 85.00 (84.70 to 85.70): VV010212.D (-2757) (-)

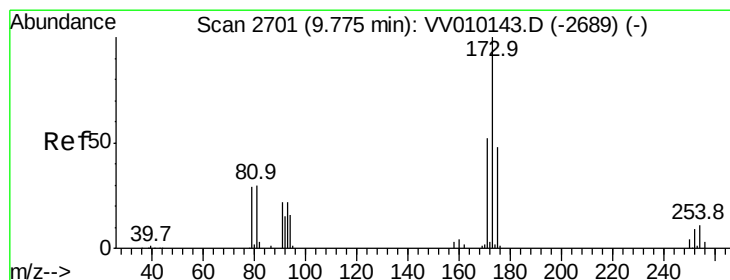
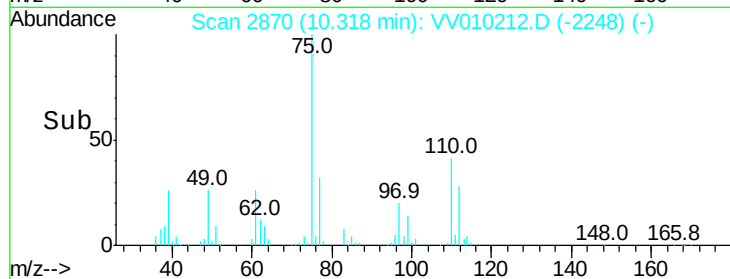
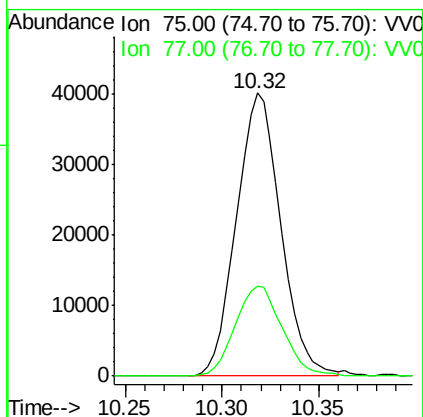
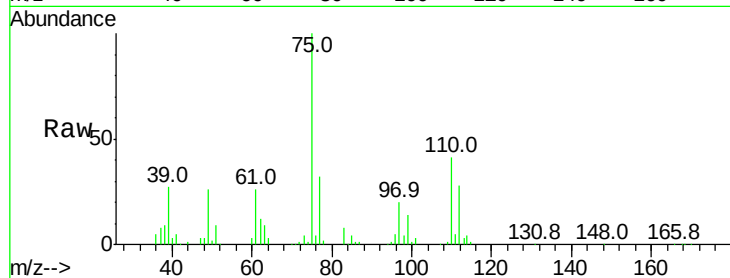
Ion 131.00 (130.70 to 131.70): VV010212.D (-2757) (-)





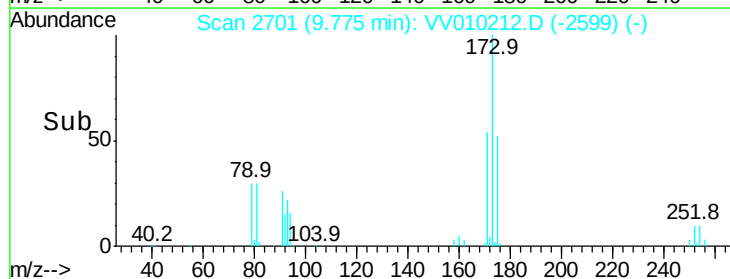
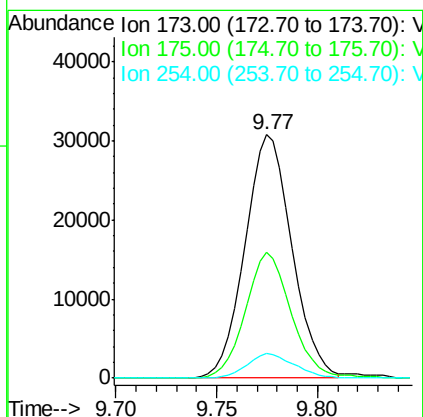
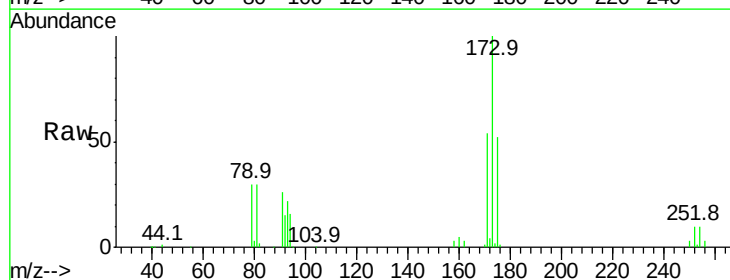
#59  
 1,2,3-Trichloropropane  
 Concen: 22.415 ug/L  
 RT: 10.32 min Scan# 2870  
 Delta R.T. -0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

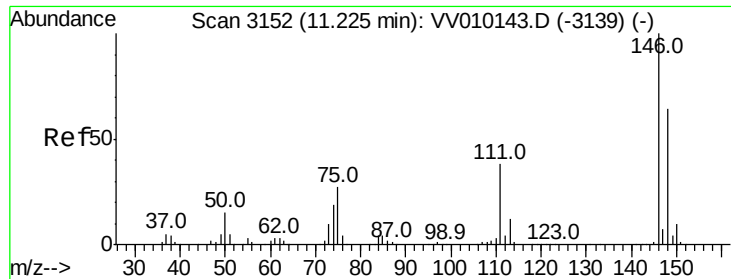
Tgt Ion: 75 Resp: 63992  
 Ion Ratio Lower Upper  
 75 100  
 77 33.6 25.8 38.8



#62  
 Bromoform  
 Concen: 24.709 ug/L  
 RT: 9.77 min Scan# 2701  
 Delta R.T. -0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

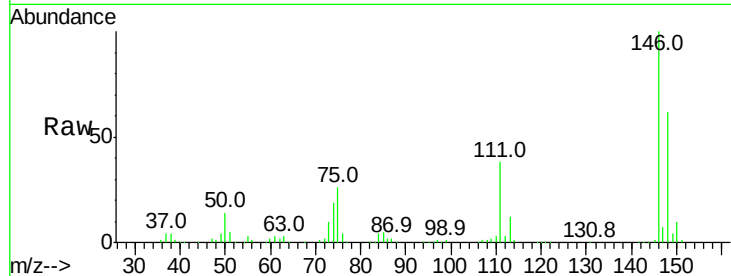
Tgt Ion: 173 Resp: 50104  
 Ion Ratio Lower Upper  
 173 100  
 175 50.4 38.7 58.1  
 254 10.0 6.7 10.1



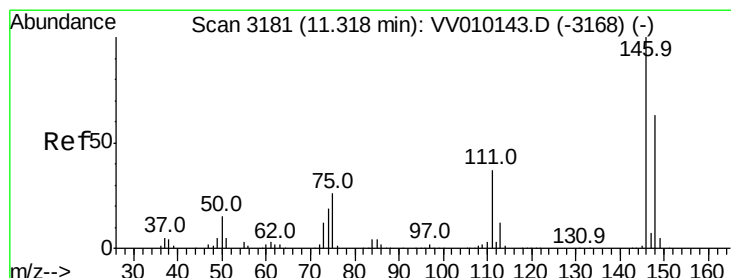
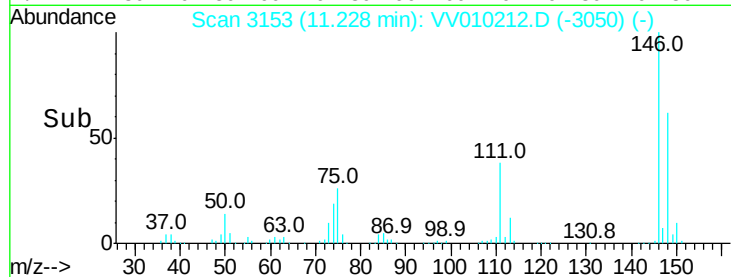
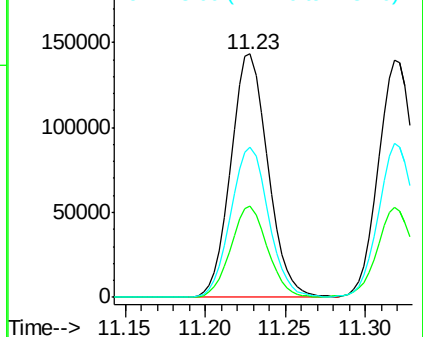


#63  
 1,3-Dichlorobenzene  
 Concen: 26.830 ug/L  
 RT: 11.23 min Scan# 3153  
 Delta R.T. -0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.5  | 26.8  | 49.8  |
| 148     | 61.7  | 42.7  | 79.3  |

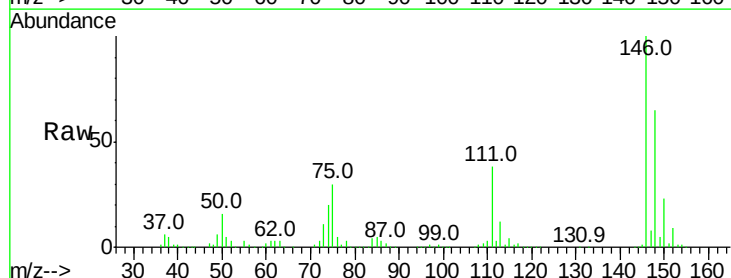


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

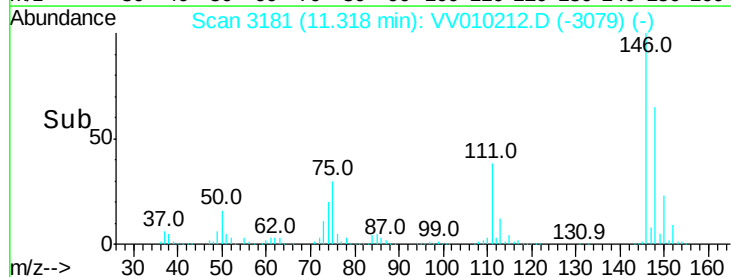
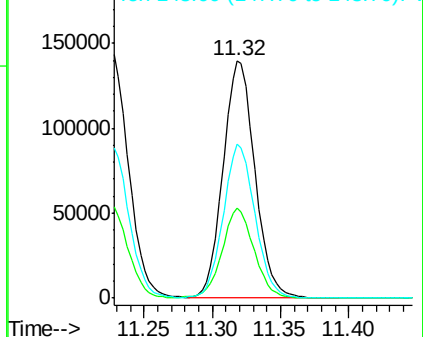


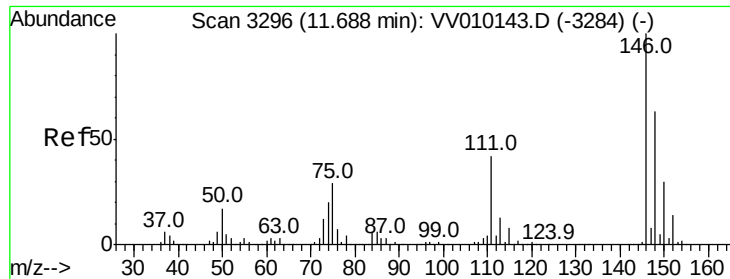
#64  
 1,4-Dichlorobenzene  
 Concen: 25.723 ug/L  
 RT: 11.32 min Scan# 3181  
 Delta R.T. -0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.9  | 26.9  | 50.1  |
| 148     | 64.7  | 45.6  | 84.6  |



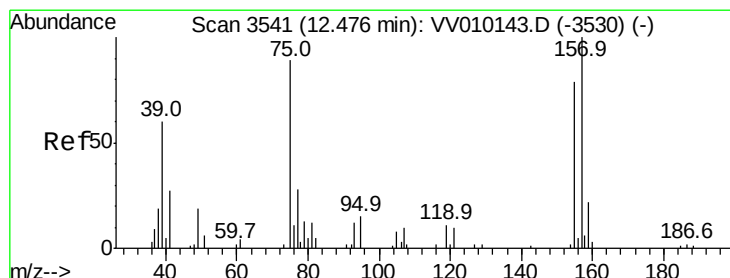
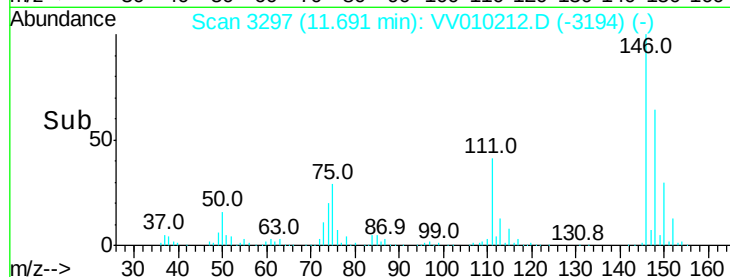
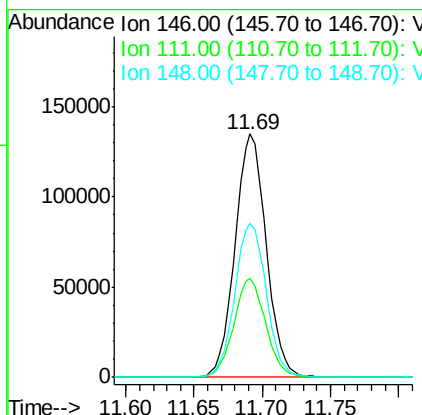
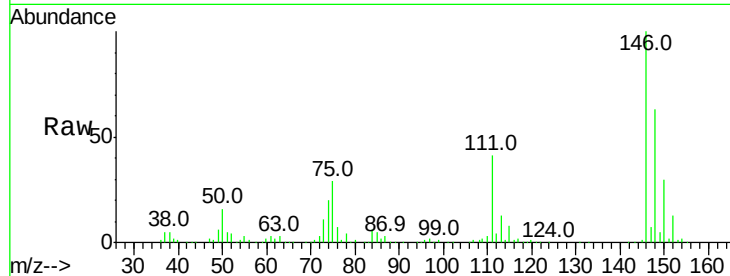
Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V





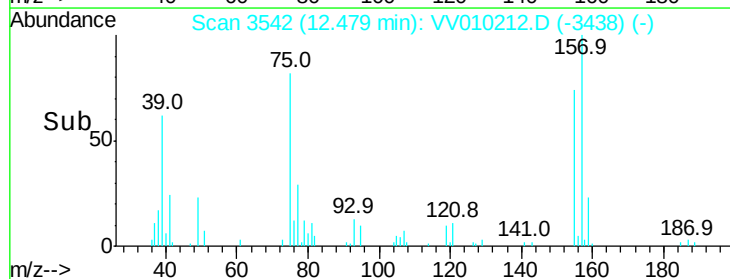
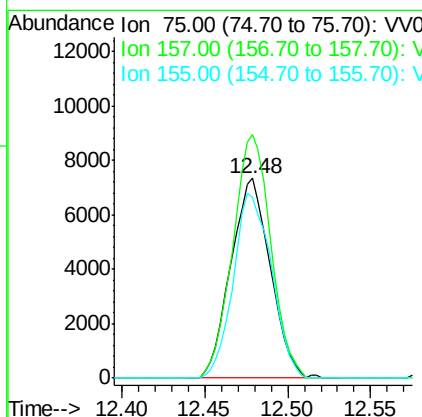
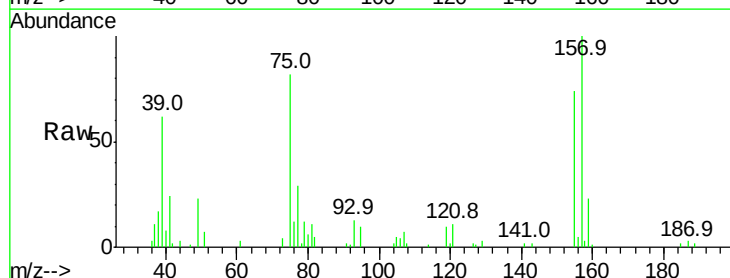
#65  
 1,2-Dichlorobenzene  
 Concen: 25.731 ug/L  
 RT: 11.69 min Scan# 3297  
 Delta R.T. -0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

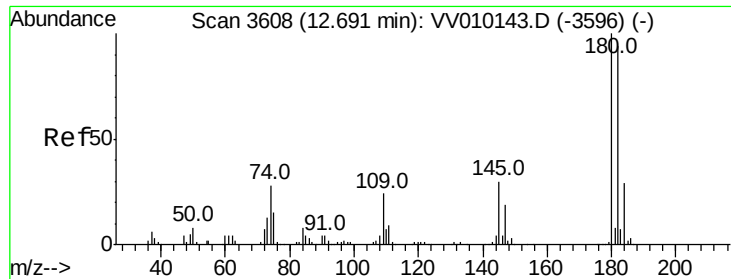
Tgt Ion: 146 Resp: 213907  
 Ion Ratio Lower Upper  
 146 100  
 111 40.6 33.2 49.8  
 148 63.4 51.4 77.0



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 21.450 ug/L  
 RT: 12.48 min Scan# 3542  
 Delta R.T. 0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

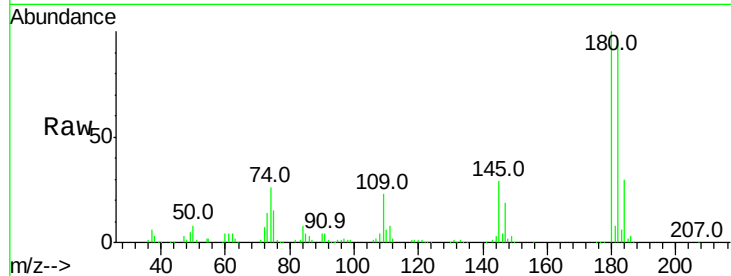
Tgt Ion: 75 Resp: 12091  
 Ion Ratio Lower Upper  
 75 100  
 157 121.8 83.0 124.6  
 155 90.6 68.1 102.1





#67  
 1,3,5-Trichlorobenzene  
 Concen: 27.090 ug/L  
 RT: 12.69 min Scan# 3609  
 Delta R.T. 0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 170241 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.4  | 77.2  | 115.8  |
| 184       | 29.8  | 23.8  | 35.6   |
| 145       | 28.6  | 24.6  | 36.8   |

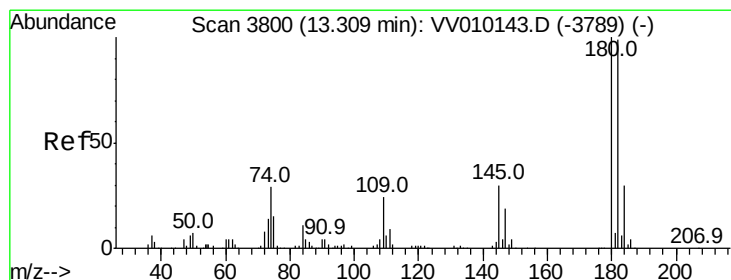
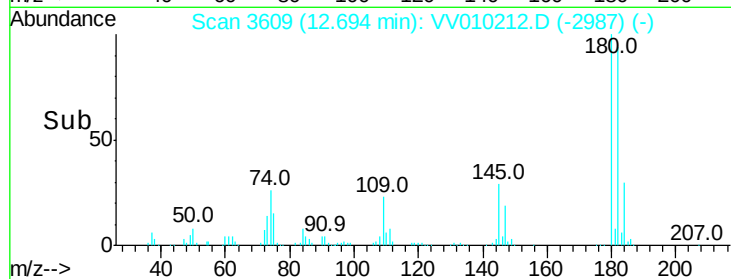
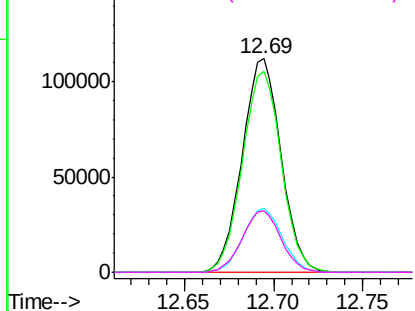


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

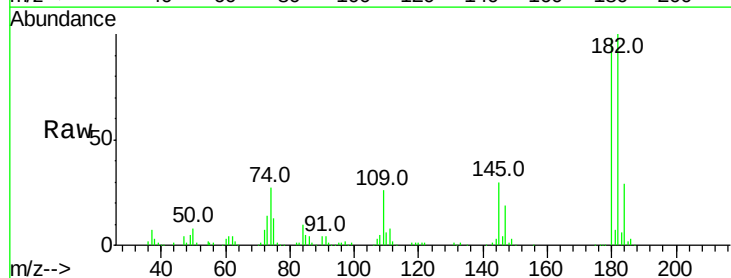
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 23.989 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. -0.00 min  
 Lab File: VV010212.D  
 Acq: 10 Apr 2019 13:06

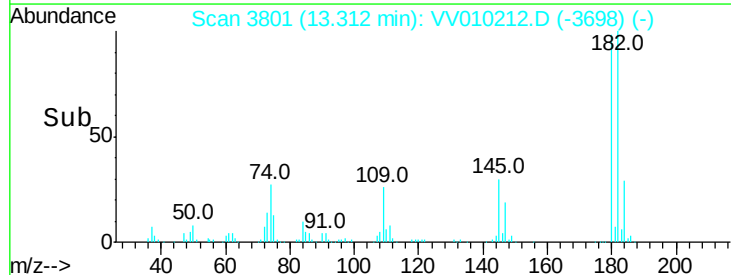
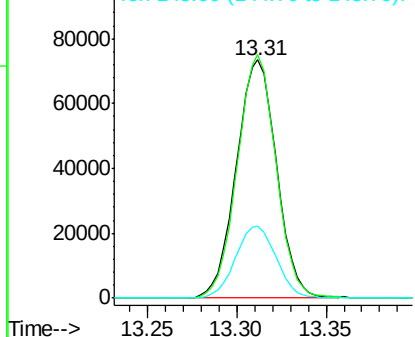
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 115441 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 98.5  | 75.7  | 113.5  |
| 145       | 30.6  | 24.6  | 37.0   |

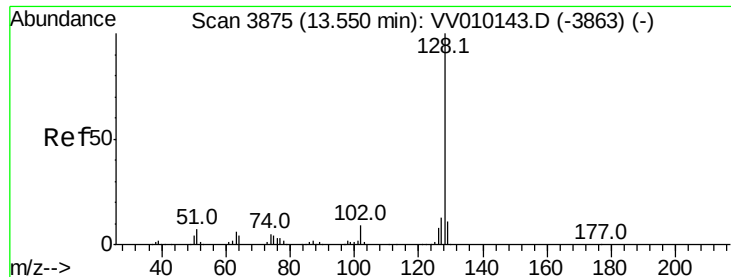


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 19.472 ug/L

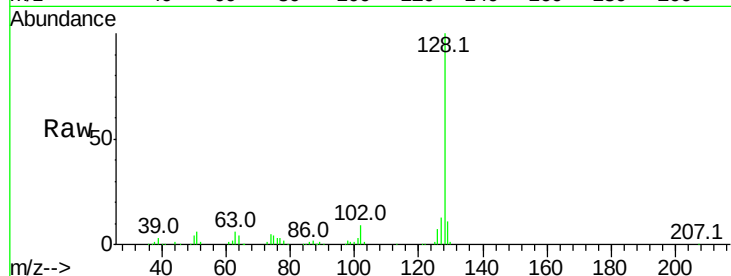
RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

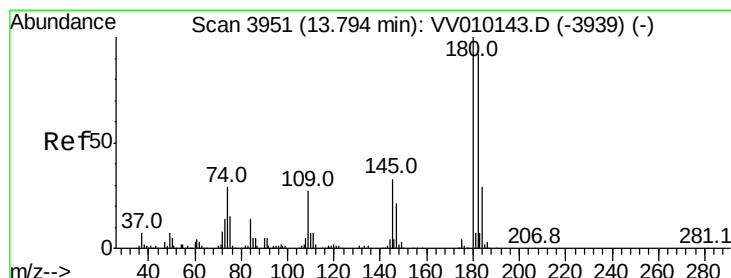
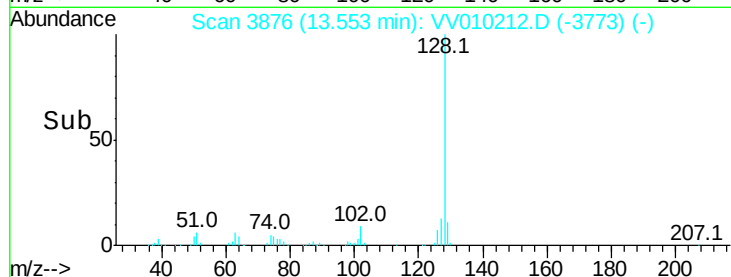
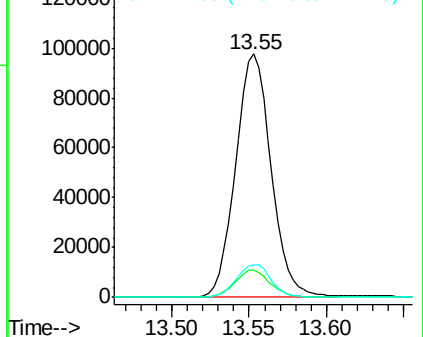
Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 155897 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 129      | 11.2  | 9.0   | 13.4   |
| 127      | 13.2  | 11.0  | 16.4   |



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: 24.451 ug/L

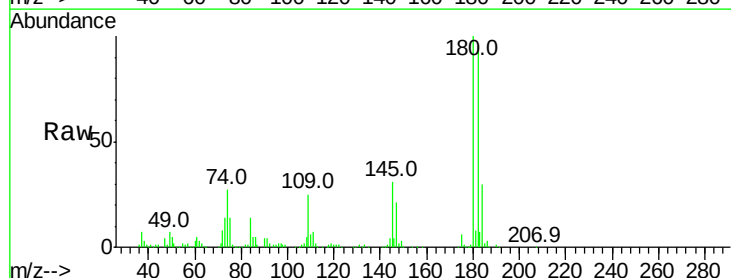
RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010212.D

Acq: 10 Apr 2019 13:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 109853 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.3  | 74.1  | 111.1  |
| 145      | 31.1  | 25.8  | 38.8   |



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

