

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV053020\  
 Data File : VV016357.D  
 Acq On : 30 May 2020 14:03  
 Operator : SY/MD  
 Sample : VSTD01036  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 01 03:29:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR053020WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 03:25:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 78510    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 76713    | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 38671    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 71156  | 10.38  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 52905  | 10.30  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 124076 | 10.32  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.93  | 46  | 162575 | 109.19 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.38  | 84  | 121010 | 10.32  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.06  | 65  | 63231  | 10.34  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.08  | 84  | 231490 | 10.64  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.10  | 67  | 68968  | 10.52  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.34  | 98  | 215059 | 10.62  | ug/L | 0.00 |
| 45) trans-1,3-Dichloropropene- | 7.64  | 79  | 27338  | 11.04  | ug/L | 0.00 |
| 48) 2-Hexanone-d5              | 8.11  | 63  | 133381 | 116.08 | ug/L | 0.00 |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24 | 84  | 50979  | 10.72  | ug/L | 0.00 |
| 65) 1,2-Dichlorobenzene-d4     | 11.65 | 152 | 73208  | 10.52  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 65267  | 9.789 ug/L   | 100    |
| 3) Chloromethane               | 1.25 | 50  | 76863  | 9.915 ug/L   | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 72181  | 9.918 ug/L   | 99     |
| 6) Bromomethane                | 1.53 | 94  | 41187  | 10.251 ug/L  | 98     |
| 8) Chloroethane                | 1.60 | 64  | 41655  | 9.370 ug/L   | 96     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 96946  | 9.743 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 54408  | 9.778 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 50349  | 9.660 ug/L   | 81     |
| 13) Acetone                    | 2.21 | 43  | 88989  | 100.088 ug/L | 99     |
| 14) Carbon disulfide           | 2.31 | 76  | 159448 | 10.141 ug/L  | 98     |
| 15) Methyl Acetate             | 2.46 | 43  | 22496  | 9.942 ug/L   | 97     |
| 16) Methylene chloride         | 2.53 | 84  | 52945  | 9.662 ug/L   | 97     |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 123803 | 10.151 ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 54575  | 10.005 ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 108381 | 9.886 ug/L   | 98     |
| 21) 2-Butanone                 | 4.01 | 43  | 159098 | 102.425 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 60933  | 10.182 ug/L  | 97     |
| 23) Bromochloromethane         | 4.28 | 128 | 25015  | 10.351 ug/L  | 91     |
| 25) Chloroform                 | 4.41 | 83  | 110316 | 10.077 ug/L  | 100    |
| 27) 1,2-Dichloroethane         | 5.16 | 62  | 73023  | 9.978 ug/L   | 99     |
| 29) 1,1,1-Trichloroethane      | 4.63 | 97  | 96792  | 10.220 ug/L  | 99     |
| 30) Cyclohexane                | 4.70 | 56  | 103494 | 10.229 ug/L  | 97     |
| 31) Carbon tetrachloride       | 4.86 | 117 | 82290  | 10.036 ug/L  | 99     |
| 33) Benzene                    | 5.13 | 78  | 238187 | 10.173 ug/L  | 100    |
| 34) Trichloroethene            | 5.94 | 95  | 62121  | 10.070 ug/L  | 95     |
| 35) Methylcyclohexane          | 6.15 | 83  | 104415 | 10.606 ug/L  | 99     |
| 37) 1,2-Dichloropropane        | 6.20 | 63  | 59348  | 9.689 ug/L   | 99     |
| 38) Bromodichloromethane       | 6.53 | 83  | 73263  | 10.263 ug/L  | 97     |
| 39) cis-1,3-Dichloropropene    | 7.05 | 75  | 85641  | 10.951 ug/L  | 98     |
| 40) 4-Methyl-2-pentanone       | 7.25 | 43  | 387516 | 106.172 ug/L | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV053020\  
 Data File : VV016357.D  
 Acq On : 30 May 2020 14:03  
 Operator : SY/MD  
 Sample : VSTD01036  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

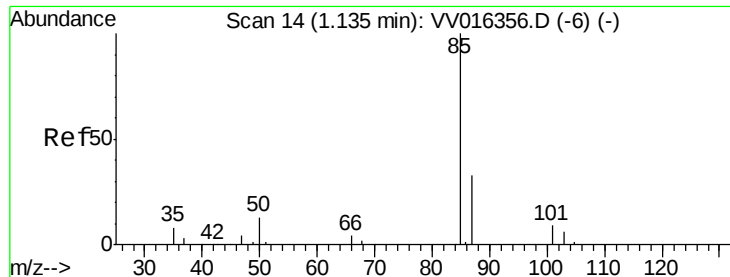
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 01 03:29:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR053020WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 03:25:25 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| -----                          |       |      |          |         |       |          |
| 42) Toluene                    | 7.41  | 91   | 262621   | 10.229  | ug/L  | 100      |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 250217   | 10.613  | ug/L  | 100      |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 256816   | 10.775  | ug/L  | 99       |
| 46) trans-1,3-Dichloropropene  | 7.67  | 75   | 72536    | 10.793  | ug/L  | 98       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 39188    | 10.294  | ug/L  | 97       |
| 49) Tetrachloroethene          | 8.00  | 164  | 45574    | 10.334  | ug/L  | 98       |
| 50) 2-Hexanone                 | 8.16  | 43   | 276083   | 106.419 | ug/L  | 100      |
| 51) Dibromochloromethane       | 8.27  | 129  | 43104    | 10.942  | ug/L  | 95       |
| 52) 1,2-Dibromoethane          | 8.37  | 107  | 37168    | 10.241  | ug/L  | 99       |
| 53) Chlorobenzene              | 8.90  | 112  | 159756   | 10.237  | ug/L  | 99       |
| 54) Ethylbenzene               | 9.03  | 91   | 294429   | 10.423  | ug/L  | 99       |
| 55) m,p-xylene                 | 9.16  | 106  | 110941   | 10.478  | ug/L  | 99       |
| 56) o-xylene                   | 9.57  | 106  | 104993   | 10.363  | ug/L  | 99       |
| 57) Styrene                    | 9.58  | 104  | 183940   | 10.530  | ug/L  | 98       |
| 58) Isopropylbenzene           | 9.95  | 105  | 292110   | 10.679  | ug/L  | 99       |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 49205    | 10.403  | ug/L  | 98       |
| 62) Bromoform                  | 9.75  | 173  | 18305    | 10.899  | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 126350   | 10.098  | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene        | 11.30 | 146  | 127758   | 10.259  | ug/L  | 97       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 115543   | 10.282  | ug/L  | 99       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 7749     | 10.670  | ug/L  | 94       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 91789    | 10.282  | ug/L  | 99       |
| 69) 1,2,4-trichlorobenzene     | 13.29 | 180  | 78342    | 10.552  | ug/L  | 100      |
| 70) Naphthalene                | 13.53 | 128  | 154004   | 10.657  | ug/L  | 100      |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 71419    | 10.581  | ug/L  | 99       |
| -----                          |       |      |          |         |       |          |

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





#2

Dichlorodifluoromethane

Concen: 9.789 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

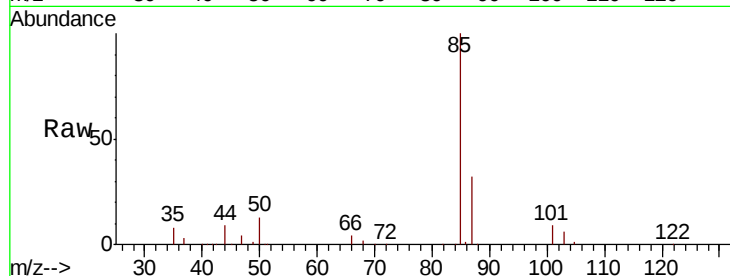
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 85 Resp: 65267

Ion Ratio Lower Upper

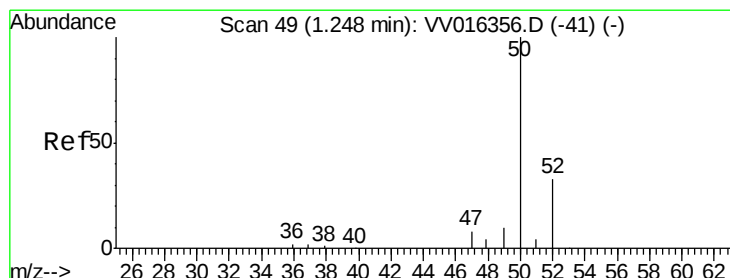
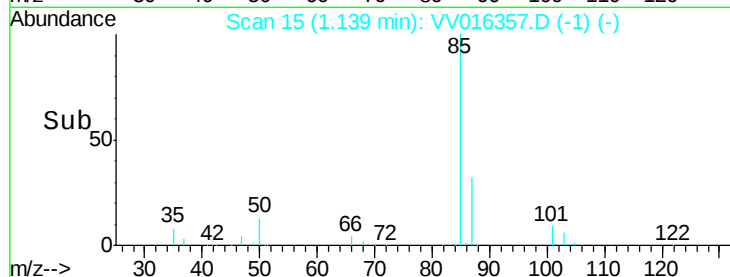
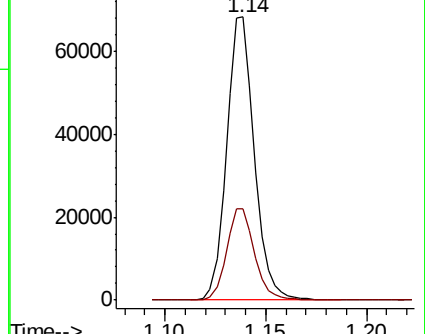
85 100

87 32.8 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 9.915 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV016357.D

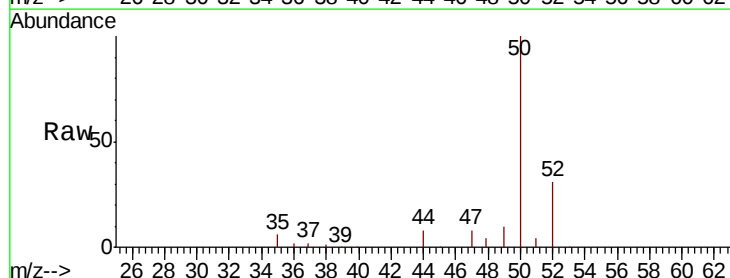
Acq: 30 May 2020 14:03

Tgt Ion: 50 Resp: 76863

Ion Ratio Lower Upper

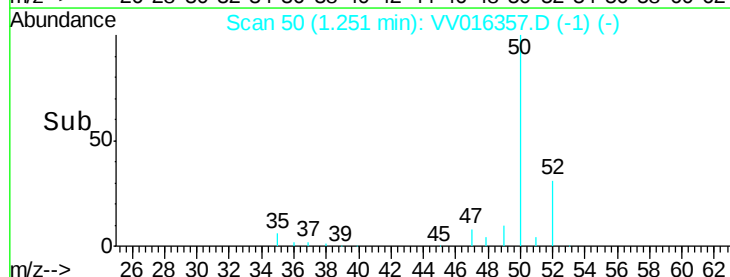
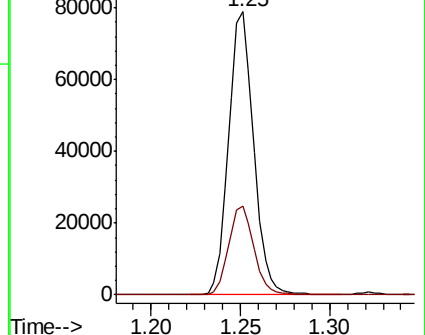
50 100

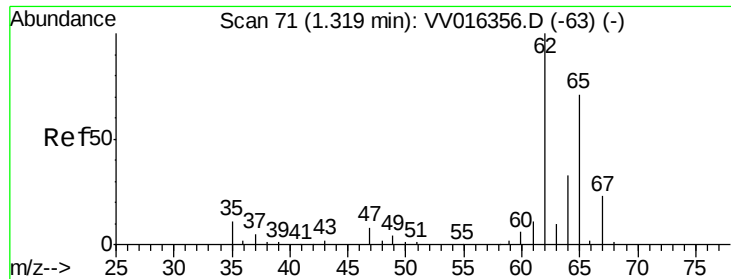
52 31.5 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 9.918 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

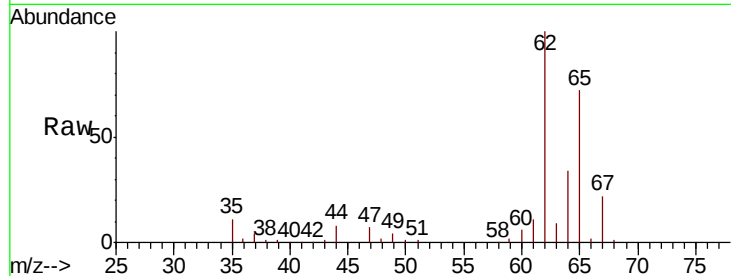
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 62 Resp: 72181

Ion Ratio Lower Upper

62 100

64 33.7 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

80000

60000

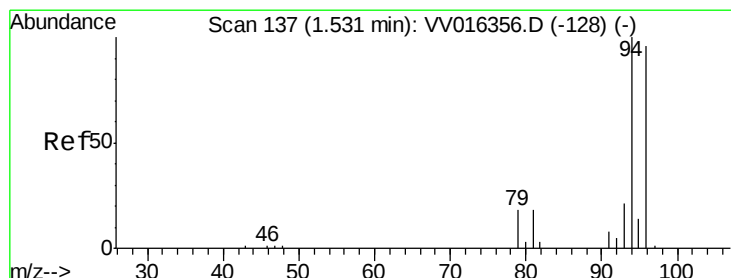
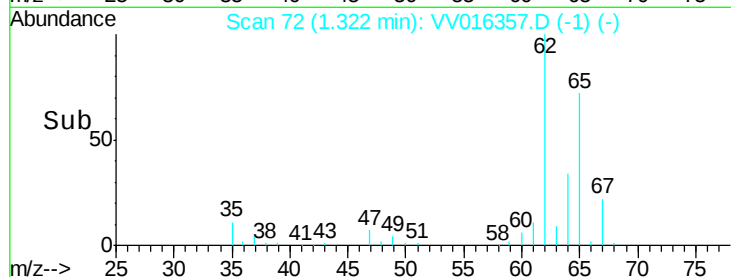
40000

20000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 10.251 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV016357.D

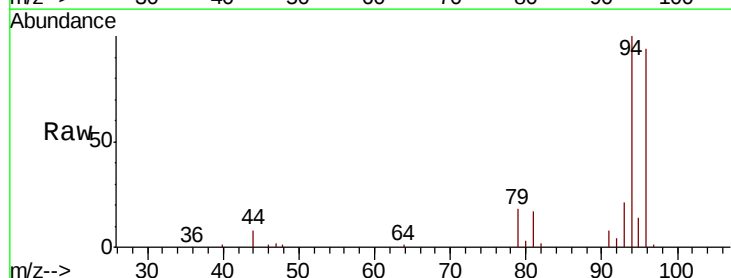
Acq: 30 May 2020 14:03

Tgt Ion: 94 Resp: 41187

Ion Ratio Lower Upper

94 100

96 93.7 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

40000

30000

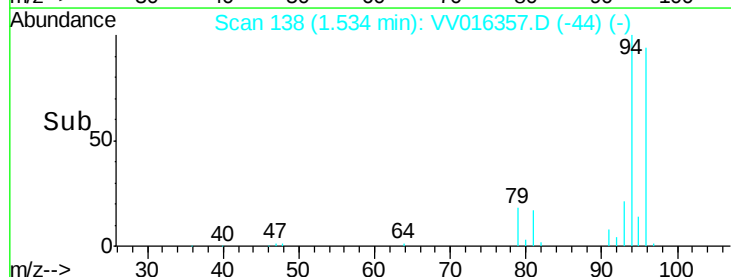
20000

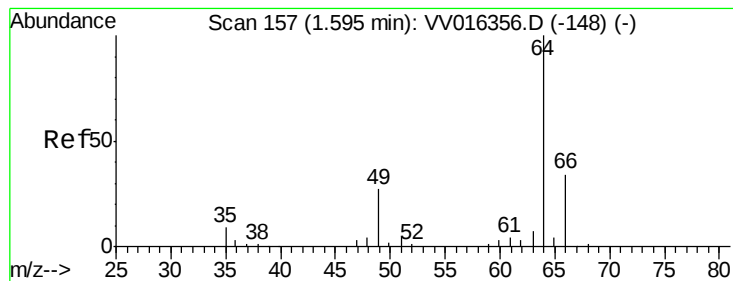
10000

0

1.50 1.55 1.60

Time-->





#8

Chloroethane

Concen: 9.370 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

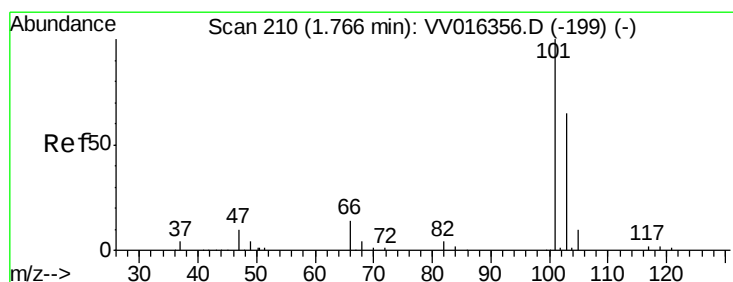
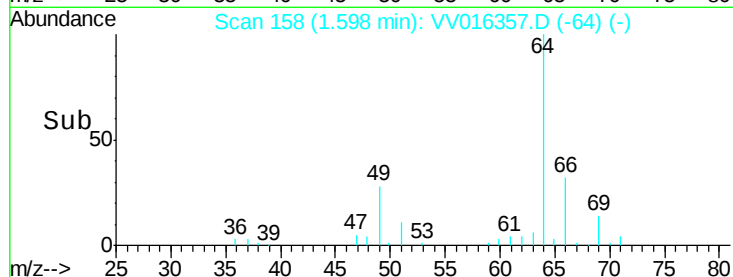
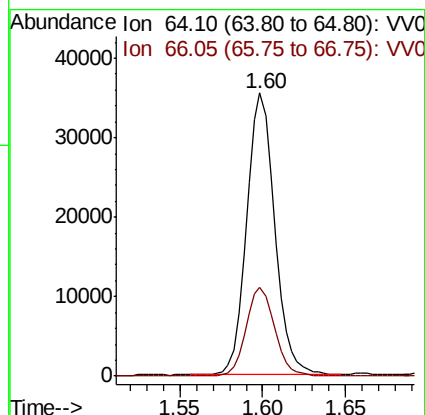
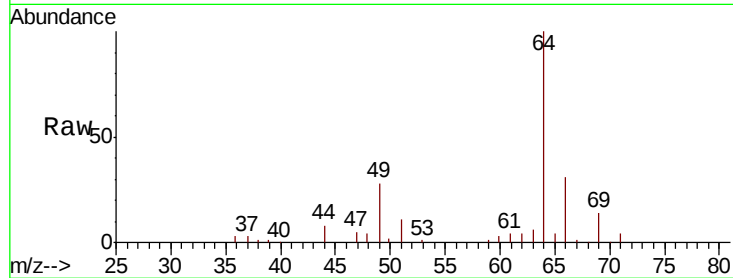
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 64 Resp: 41655

Ion Ratio Lower Upper

64 100

66 31.4 23.4 43.6



#9

Trichlorofluoromethane

Concen: 9.743 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV016357.D

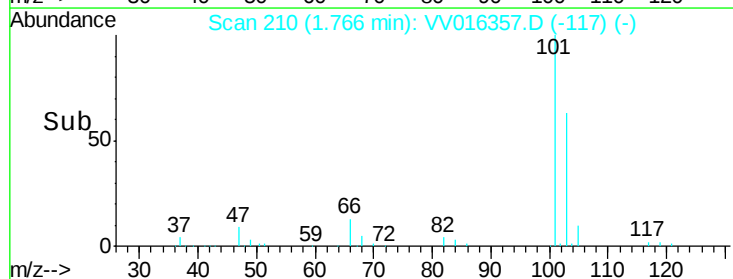
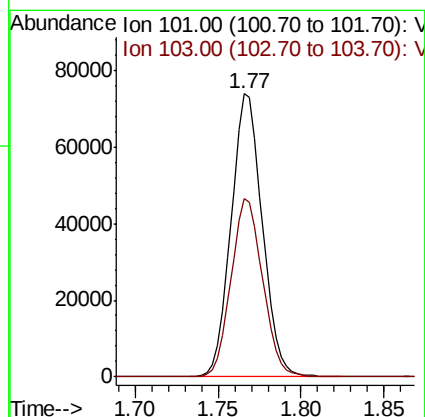
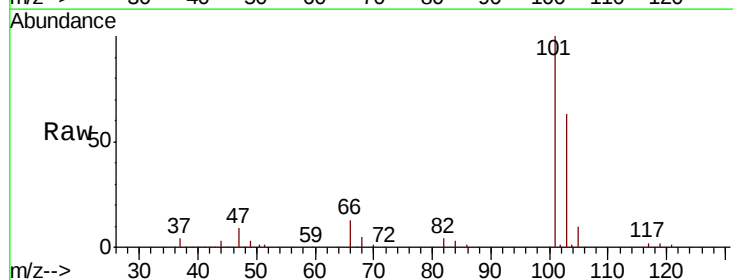
Acq: 30 May 2020 14:03

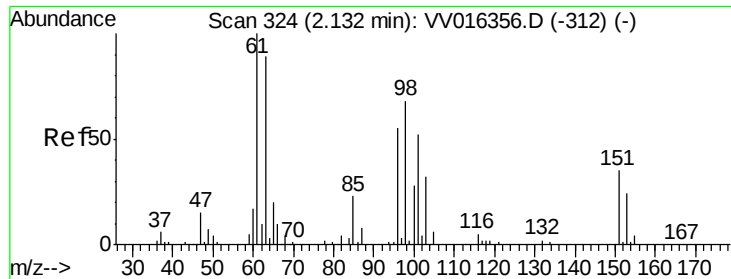
Tgt Ion:101 Resp: 96946

Ion Ratio Lower Upper

101 100

103 63.6 52.2 78.4





#10

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

Concen: 9.778 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :

MSVOA\_V

ClientSampleId :

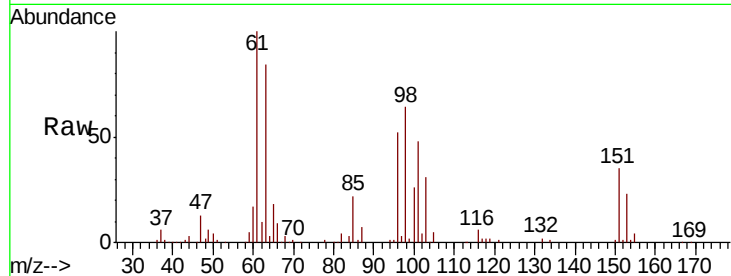
Tot Ion:101 Resp: 54408

Ion Ratio Lower Upper

101 100

85 45.2 35.7 53.5

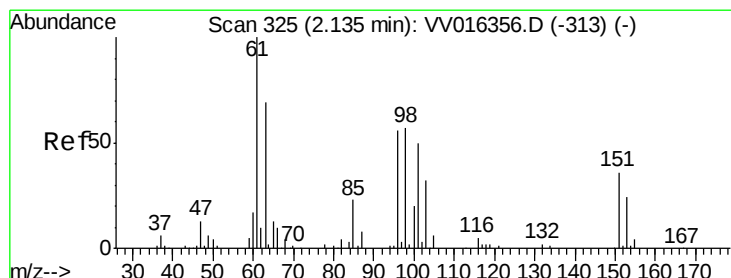
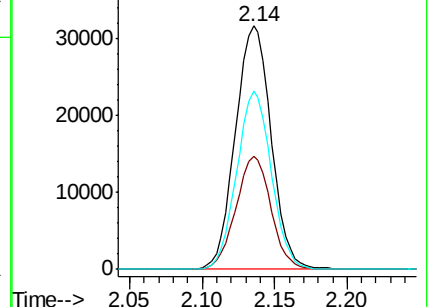
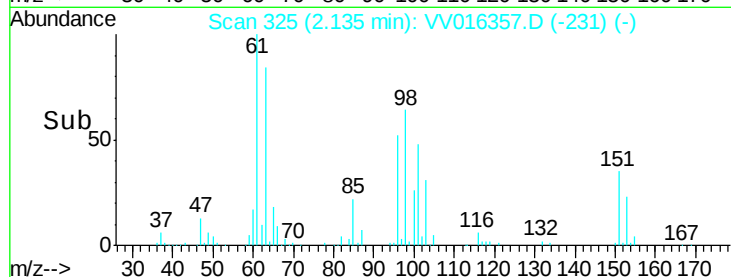
151 70.8 57.2 85.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 9.660 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

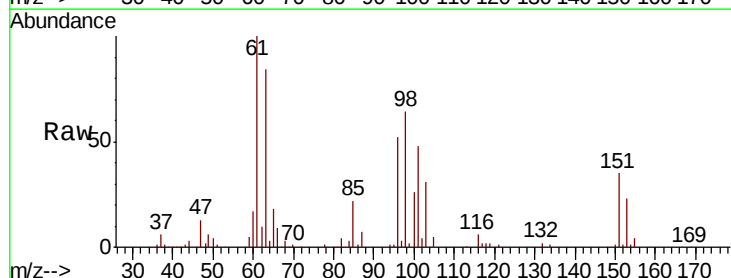
Tgt Ion: 96 Resp: 50349

Ion Ratio Lower Upper

96 100

61 192.5 125.4 233.0

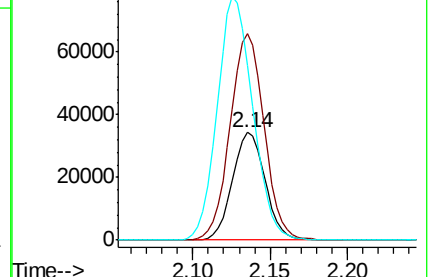
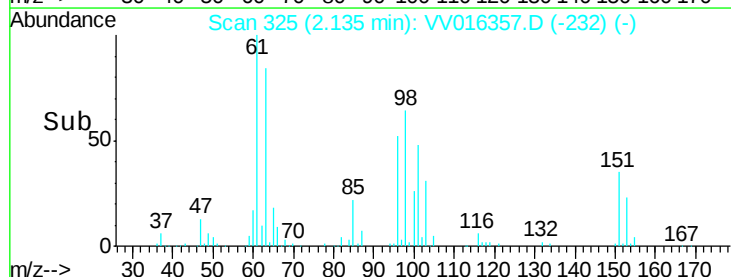
63 162.2 88.2 163.8

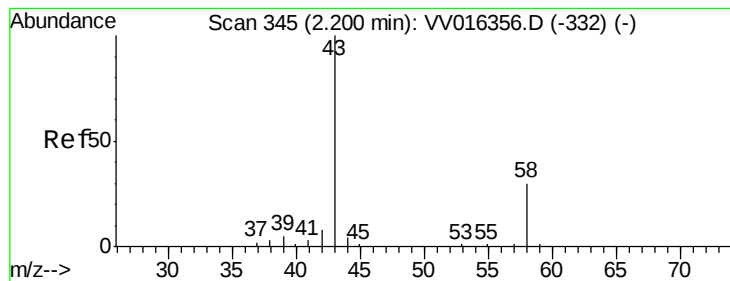


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 100.088 ug/L

RT: 2.21 min Scan# 347

Delta R.T. 0.01 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

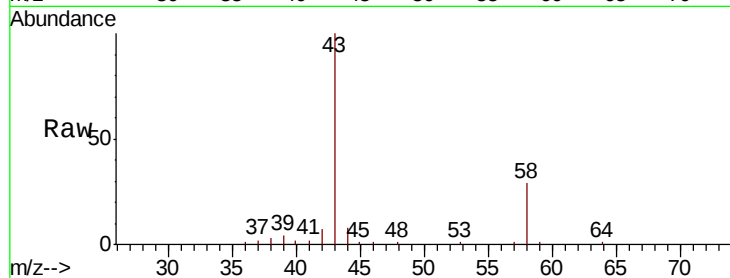
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 88989

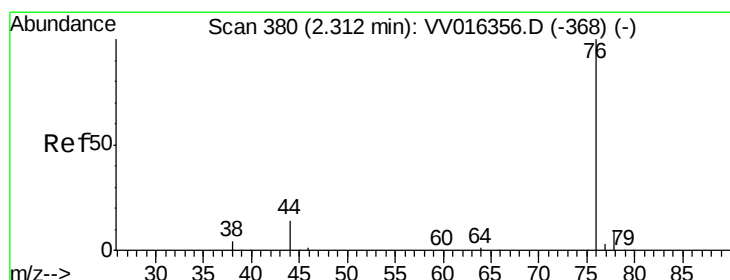
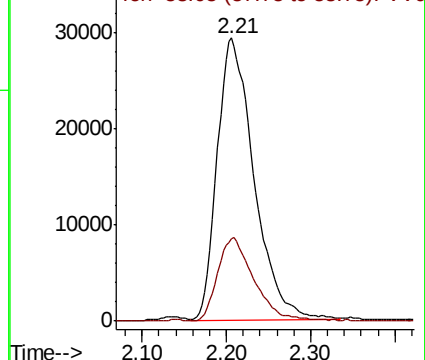
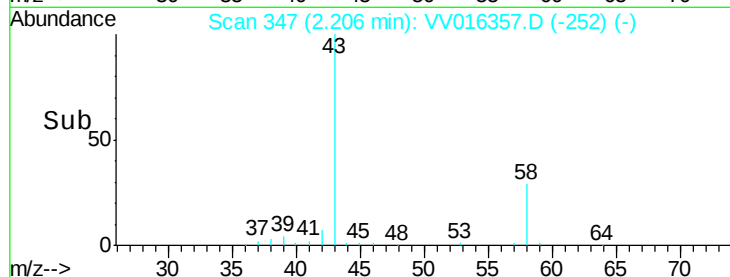
Ion Ratio Lower Upper

43 100

58 29.2 0.0 59.2



Abundance Ion 43.05 (42.75 to 43.75): VV016357.D (-252) (-)



#14

Carbon disulfide

Concen: 10.141 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV016357.D

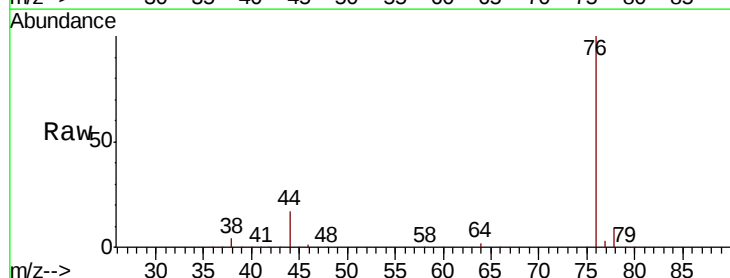
Acq: 30 May 2020 14:03

Tgt Ion: 76 Resp: 159448

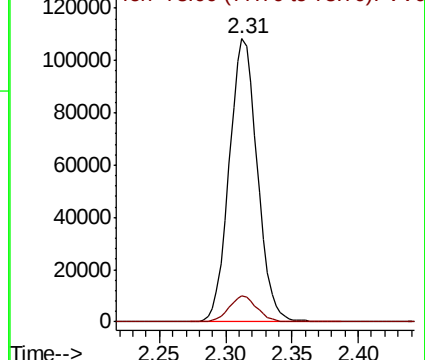
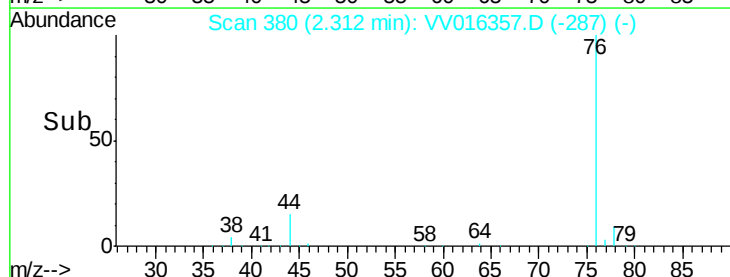
Ion Ratio Lower Upper

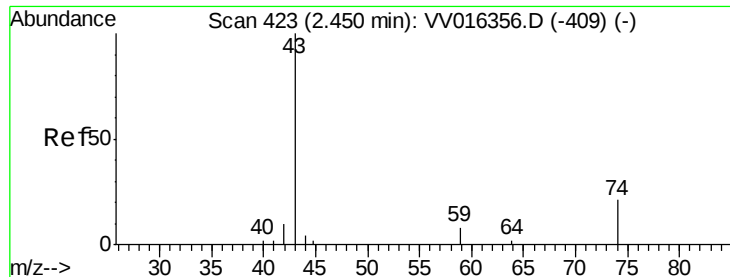
76 100

78 9.1 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VV016357.D (-287) (-)





#15

Methvl Acetate

Concen: 9.942 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.01 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :

MSVOA\_V

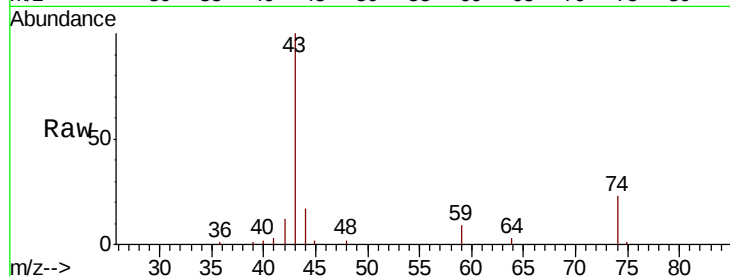
ClientSampled :

Tot Ion: 43 Resp: 22496

Ion Ratio Lower Upper

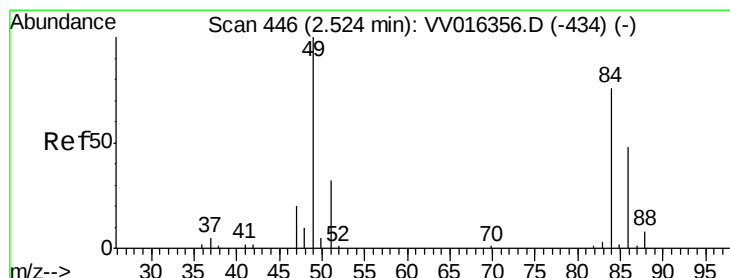
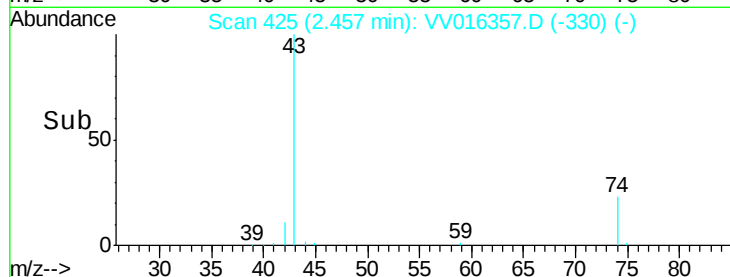
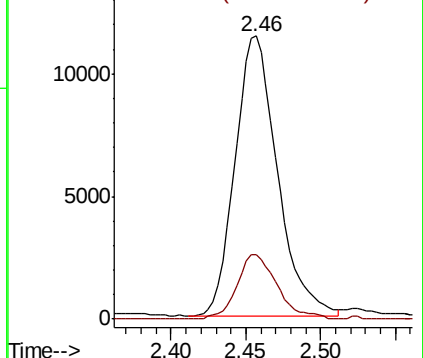
43 100

74 21.9 18.6 28.0



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 9.662 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

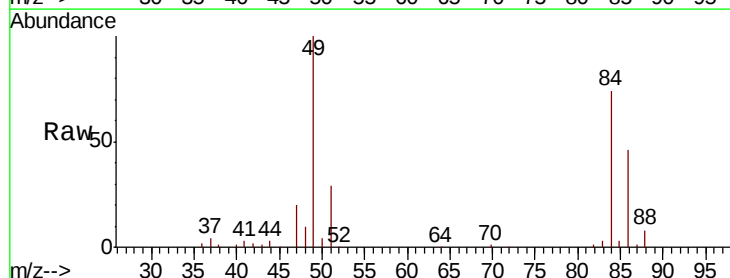
Tgt Ion: 84 Resp: 52945

Ion Ratio Lower Upper

84 100

86 62.9 44.5 82.7

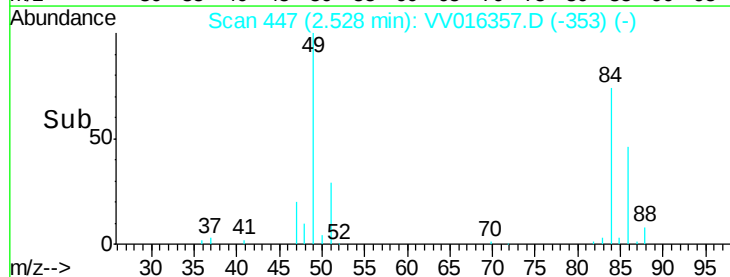
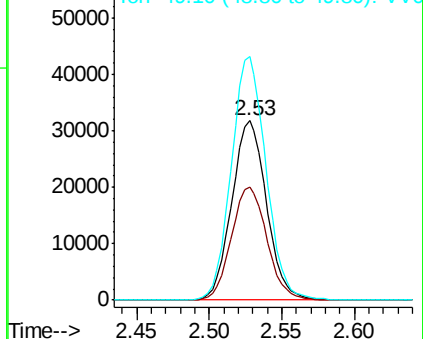
49 135.8 92.3 171.3

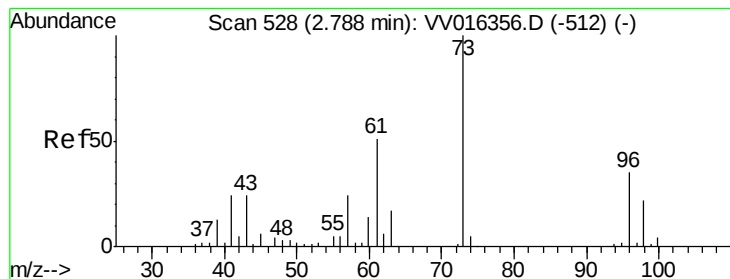


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0



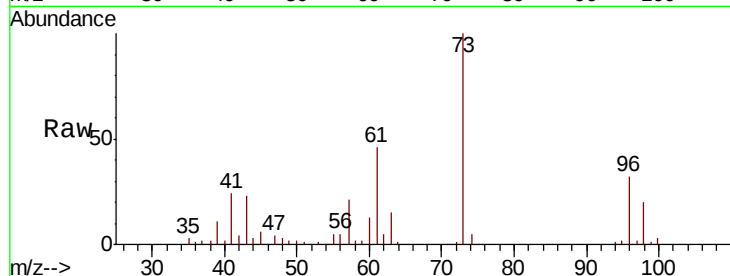


#17

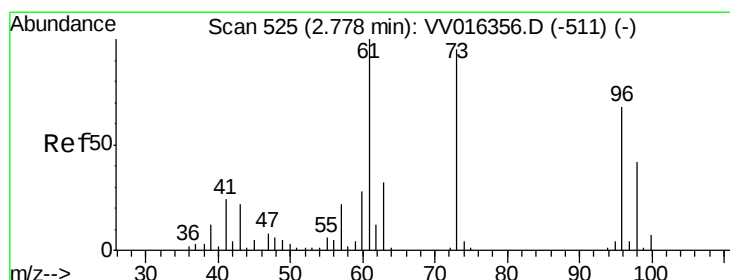
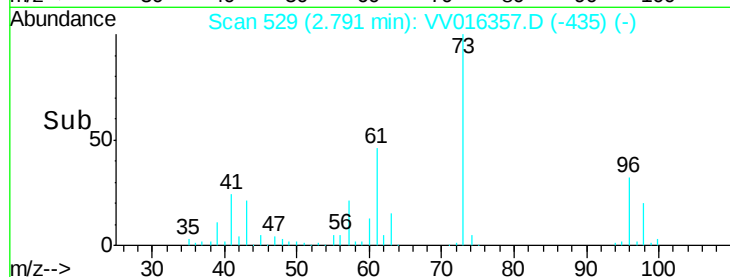
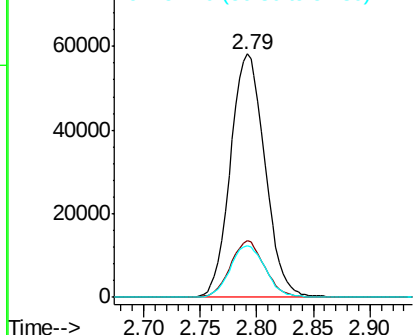
Methvl tert-butvl Ether  
 Concen: 10.151 ug/L  
 RT: 2.79 min Scan# 529  
 Delta R.T. 0.00 min  
 Lab File: VV016357.D  
 Acq: 30 May 2020 14:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 23.5  | 19.4  | 29.0  |
| 57      | 21.8  | 18.4  | 27.6  |



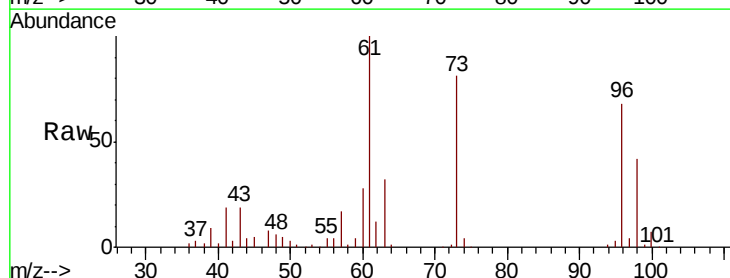
Abundance Ion 73.10 (72.80 to 73.80): VV0  
 Ion 43.05 (42.75 to 43.75): VV0  
 Ion 57.10 (56.80 to 57.80): VV0



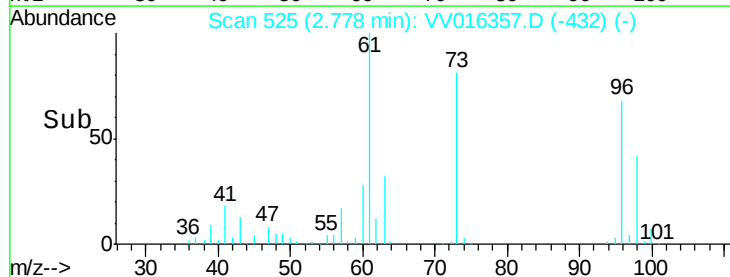
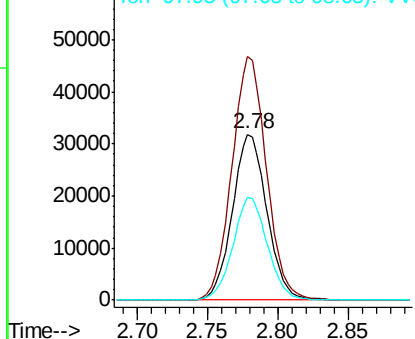
#18

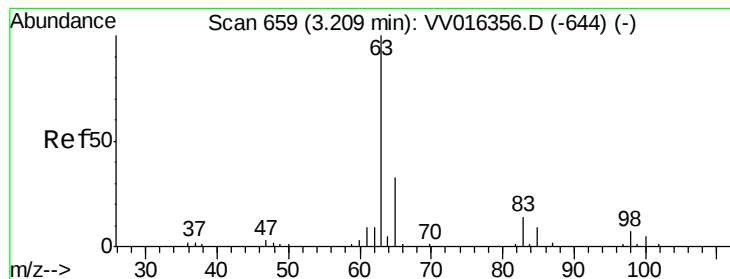
trans-1,2-Dichloroethene  
 Concen: 10.005 ug/L  
 RT: 2.78 min Scan# 525  
 Delta R.T. 0.00 min  
 Lab File: VV016357.D  
 Acq: 30 May 2020 14:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 146.9 | 103.1 | 191.5 |
| 98      | 61.9  | 43.0  | 79.8  |



Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.05 (60.75 to 61.75): VV0  
 Ion 97.95 (97.65 to 98.65): VV0





#19

1,1-Dichloroethane

Concen: 9.886 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :

MSVOA\_V

ClientSampleId :

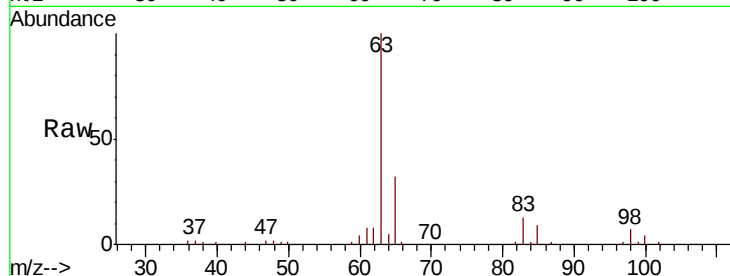
Tot Ion: 63 Resp: 108381

Ion Ratio Lower Upper

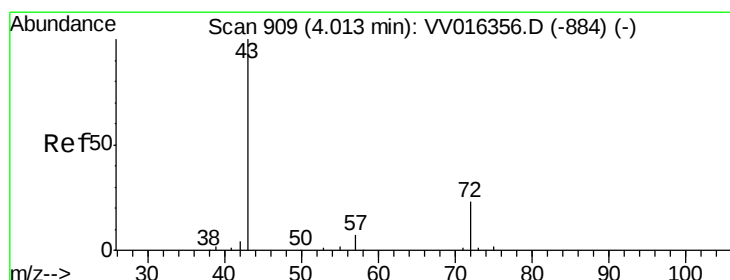
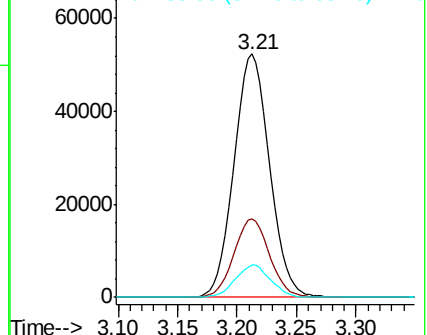
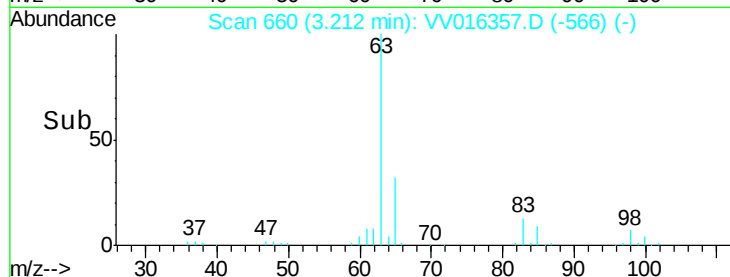
63 100

65 32.3 23.3 43.3

83 13.2 9.9 18.3



Abundance Ion 63.10 (62.80 to 63.80): VV016357.D (-566) (-)



#21

2-Butanone

Concen: 102.425 ug/L

RT: 4.01 min Scan# 909

Delta R.T. 0.00 min

Lab File: VV016357.D

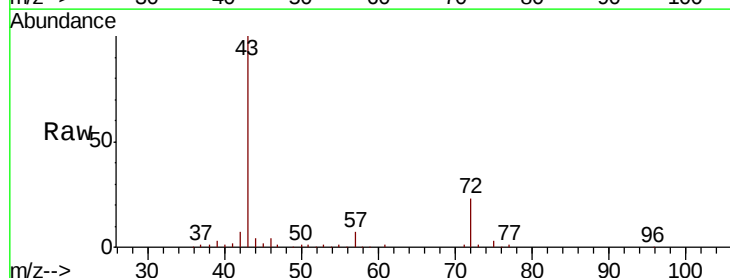
Acq: 30 May 2020 14:03

Tgt Ion: 43 Resp: 159098

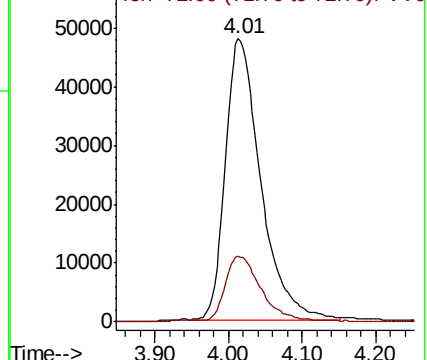
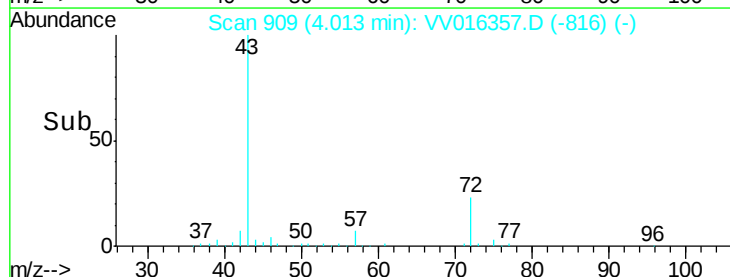
Ion Ratio Lower Upper

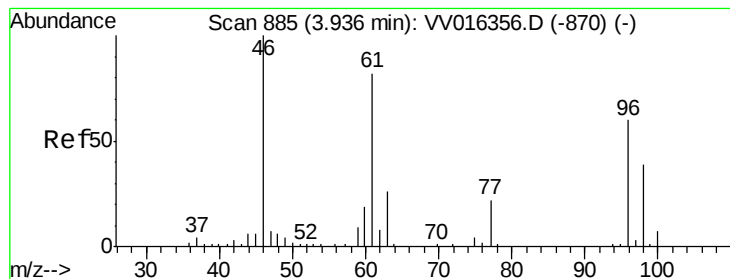
43 100

72 23.1 11.2 33.6



Abundance Ion 43.00 (42.70 to 43.70): VV016357.D (-816) (-)



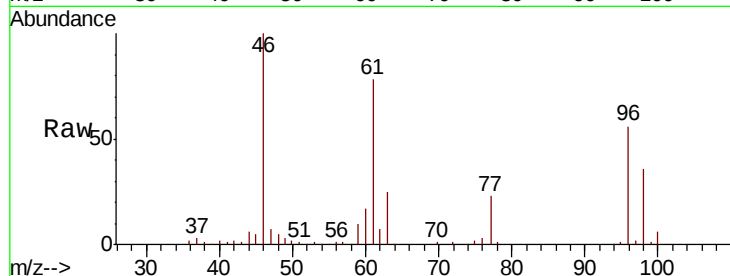


#22

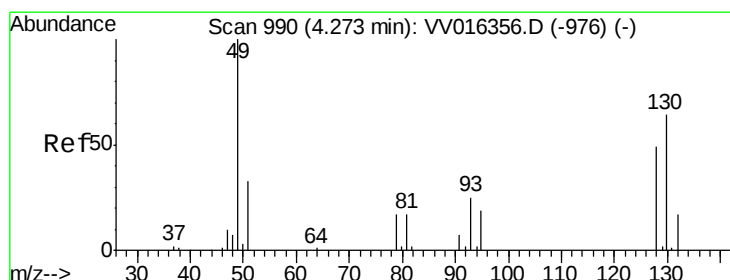
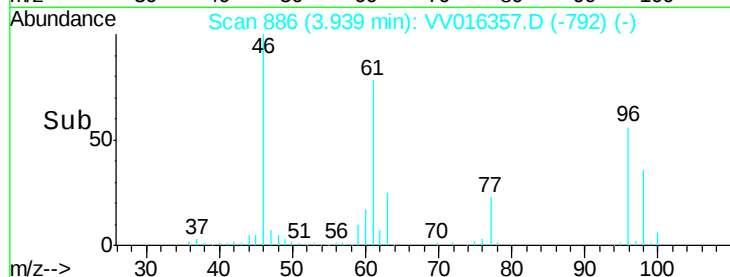
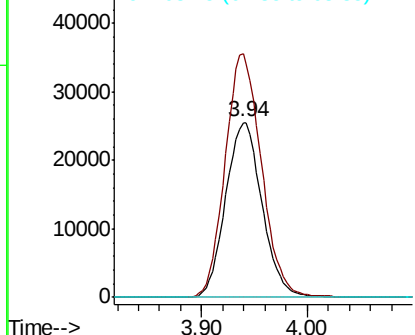
cis-1,2-Dichloroethene  
Concen: 10.182 ug/L  
RT: 3.94 min Scan# 886  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 96 Resp: 60933  
Ion Ratio Lower Upper  
96 100  
61 139.4 94.8 176.0  
68 0.0 0.0 0.0



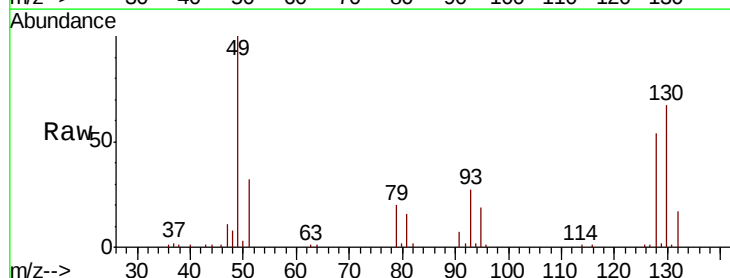
Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 68.15 (67.85 to 68.85): VV0



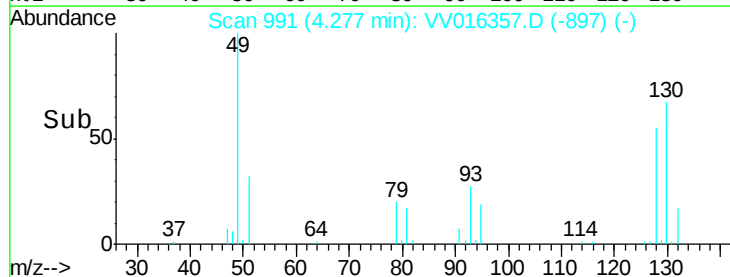
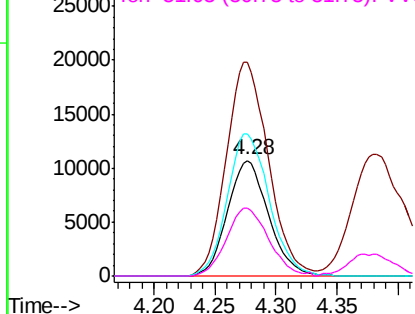
#23

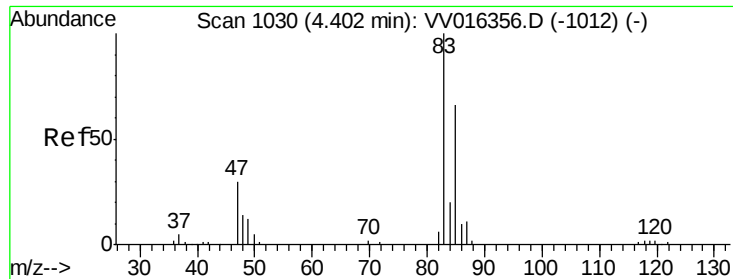
Bromochloromethane  
Concen: 10.351 ug/L  
RT: 4.28 min Scan# 991  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

Tgt Ion: 128 Resp: 25015  
Ion Ratio Lower Upper  
128 100  
49 184.8 141.5 262.9  
130 123.4 90.4 167.8  
51 58.7 53.5 80.3



Abundance Ion 127.90 (127.60 to 128.60): V  
Ion 49.10 (48.80 to 49.80): VV0  
Ion 129.95 (129.65 to 130.65): V  
Ion 51.05 (50.75 to 51.75): VV0

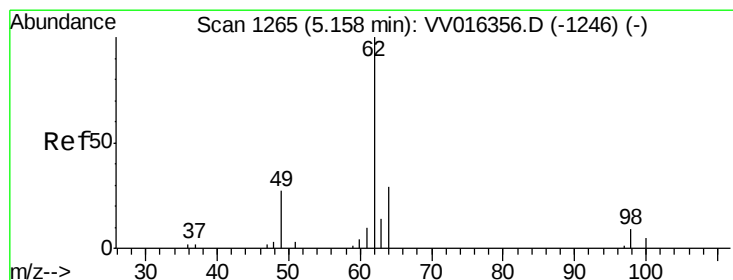
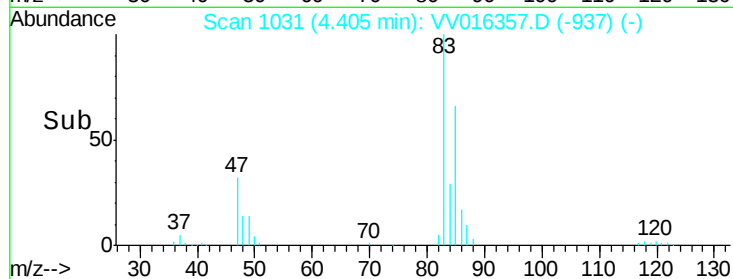
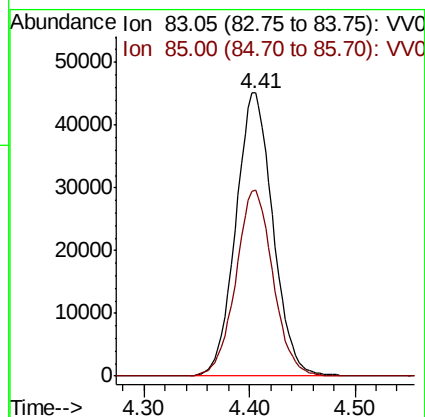
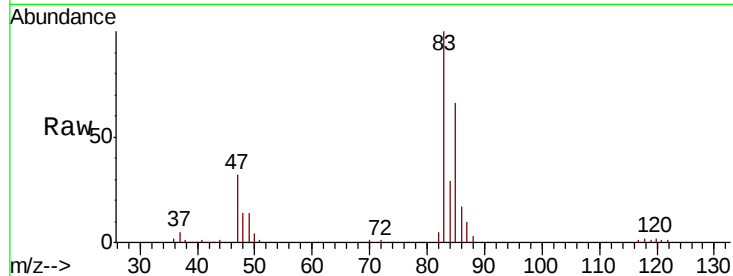




#25  
Chloroform  
Concen: 10.077 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

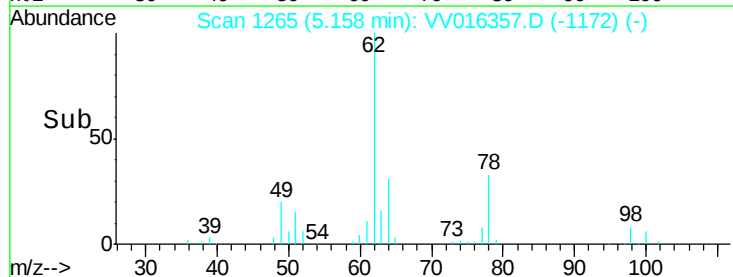
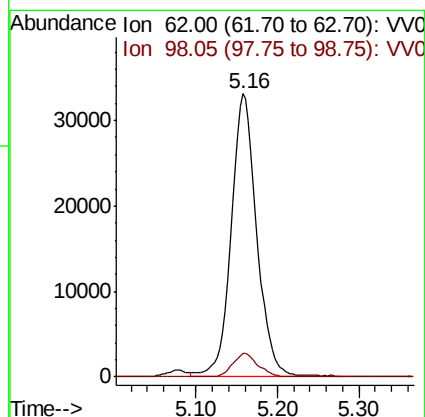
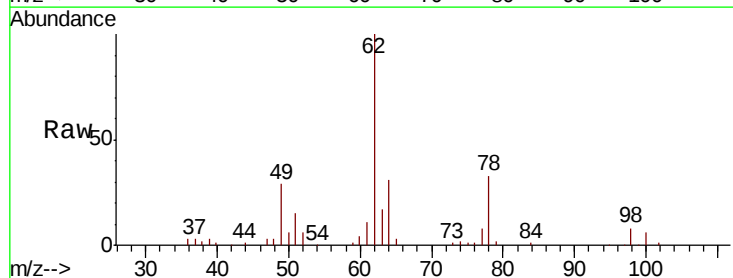
Instrument :  
MSVOA\_V  
ClientSampled :

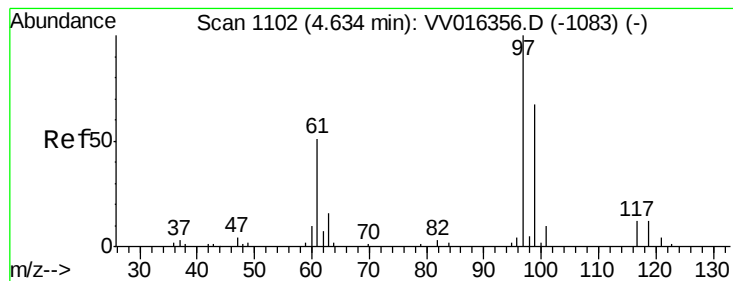
Tot Ion: 83 Resp: 110316  
Ion Ratio Lower Upper  
83 100  
85 65.6 45.8 85.2



#27  
1,2-Dichloroethane  
Concen: 9.978 ug/L  
RT: 5.16 min Scan# 1265  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

Tgt Ion: 62 Resp: 73023  
Ion Ratio Lower Upper  
62 100  
98 8.3 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 10.220 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :  
MSVOA\_V  
ClientSampleId :

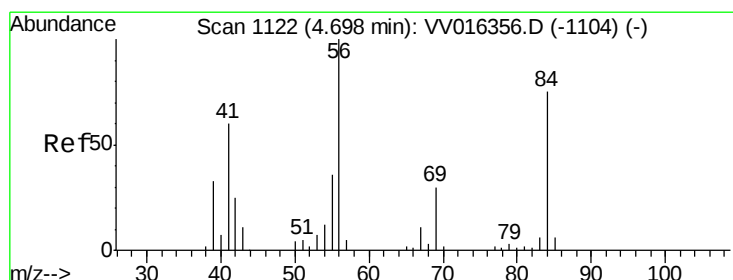
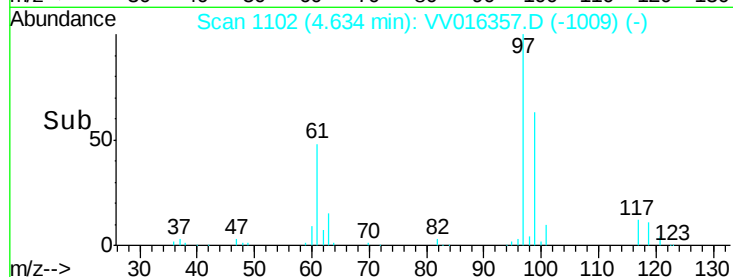
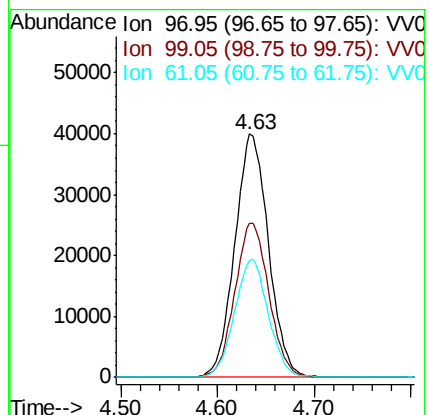
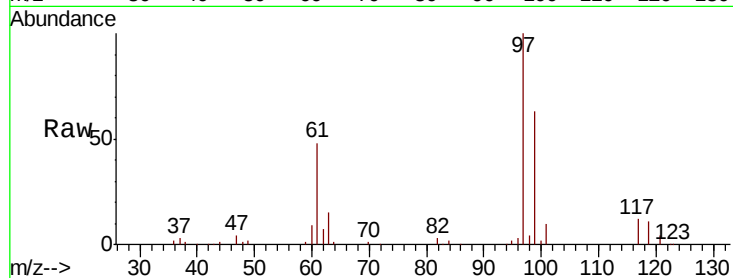
Tot Ion: 97 Resp: 96792

Ion Ratio Lower Upper

97 100

99 64.0 52.0 78.0

61 48.8 39.8 59.6



#30

Cyclohexane

Concen: 10.229 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

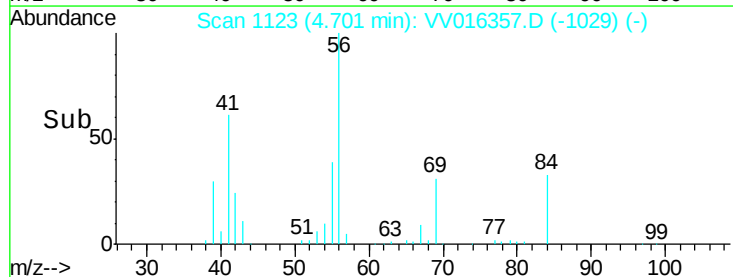
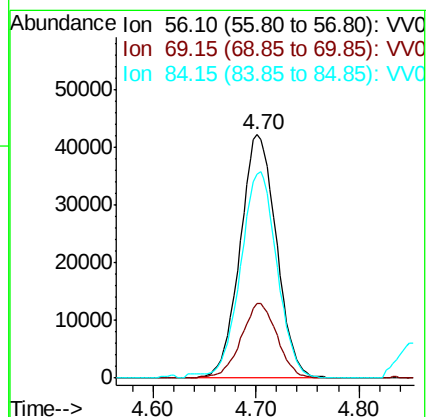
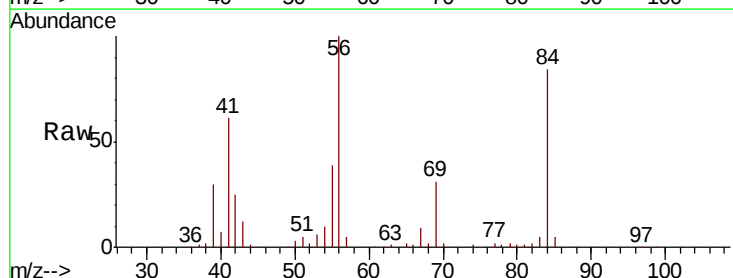
Tgt Ion: 56 Resp: 103494

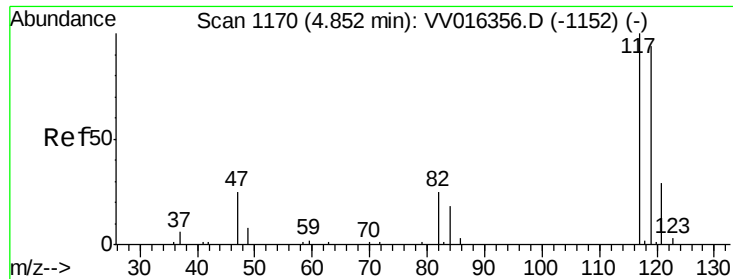
Ion Ratio Lower Upper

56 100

69 30.4 23.5 35.3

84 84.8 65.8 98.8





#31

Carbon tetrachloride

Concen: 10.036 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :

MSVOA\_V

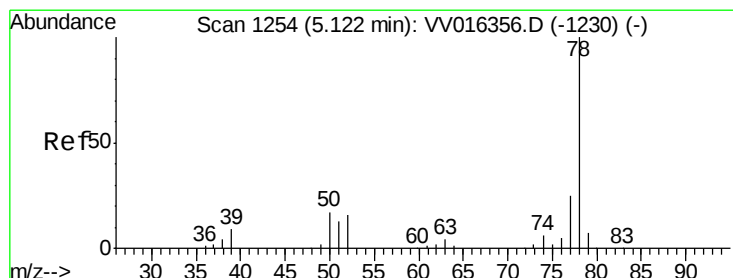
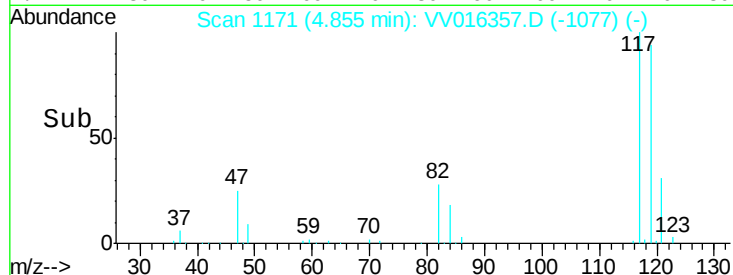
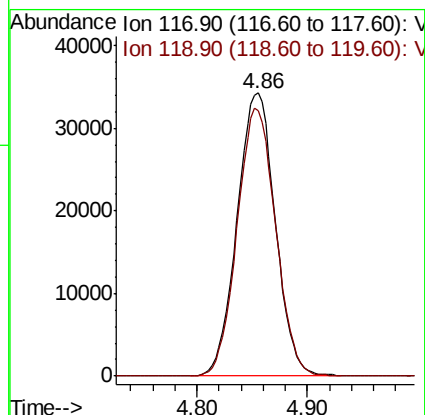
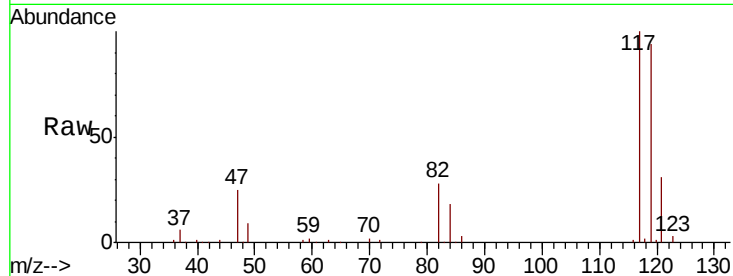
ClientSampleId :

Tot Ion:117 Resp: 82290

Ion Ratio Lower Upper

117 100

119 95.2 75.3 112.9



#33

Benzene

Concen: 10.173 ug/L

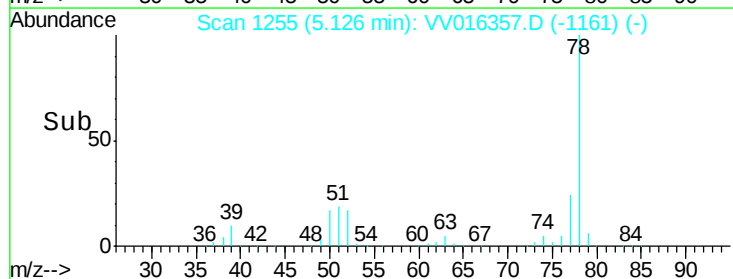
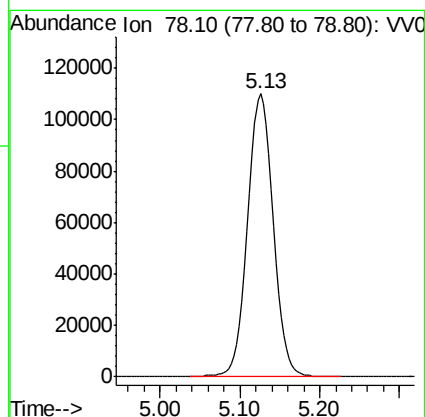
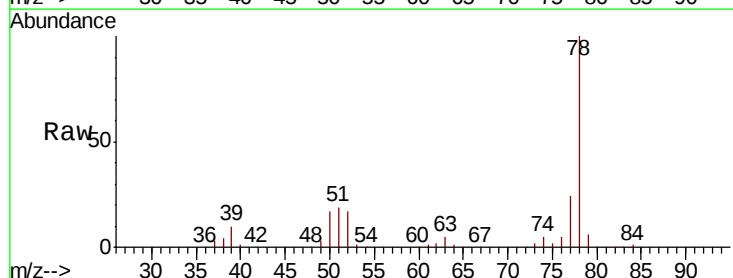
RT: 5.13 min Scan# 1255

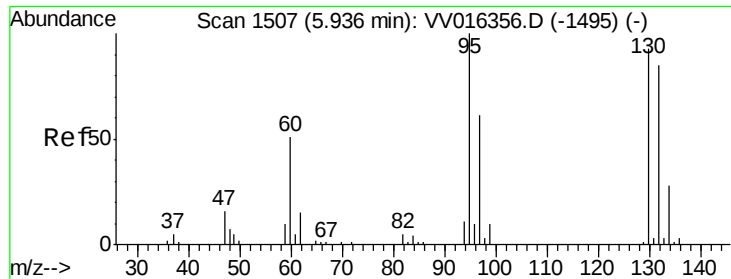
Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Tgt Ion: 78 Resp: 238187





#34

Trichloroethene

Concen: 10.070 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :

MSVOA\_V

ClientSampled :

Tot Ion: 95 Resp: 62121

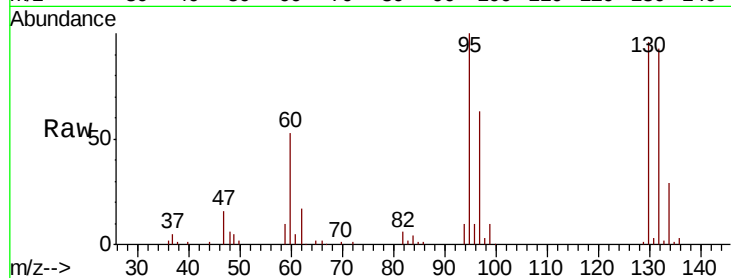
Ion Ratio Lower Upper

95 100

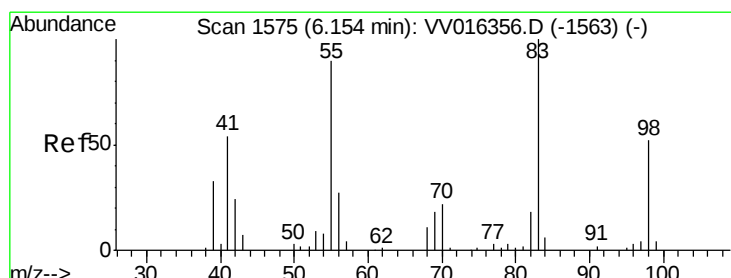
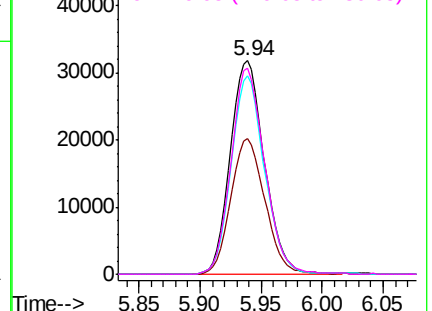
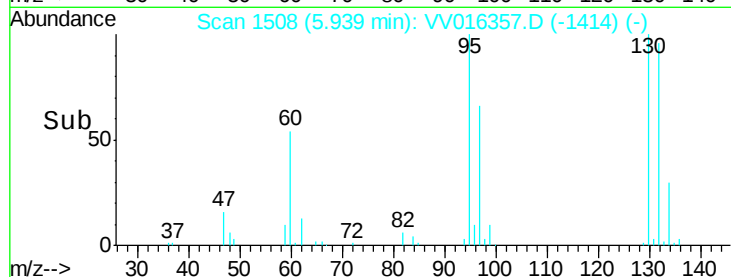
97 63.3 42.6 79.0

132 92.9 59.6 110.8

130 96.4 64.8 120.4



Abundance Ion 95.00 (94.70 to 95.70): VV016357.D (-1414) (-)



#35

Methylcyclohexane

Concen: 10.606 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

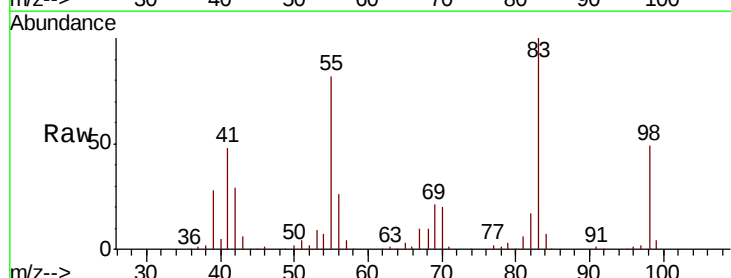
Tgt Ion: 83 Resp: 104415

Ion Ratio Lower Upper

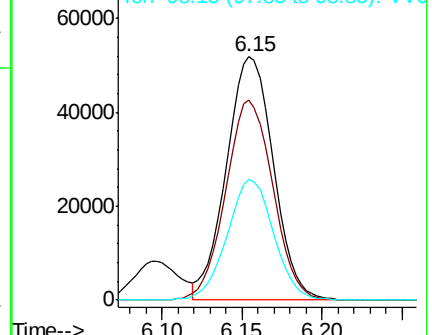
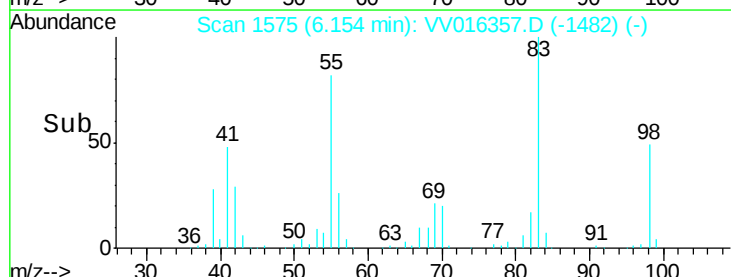
83 100

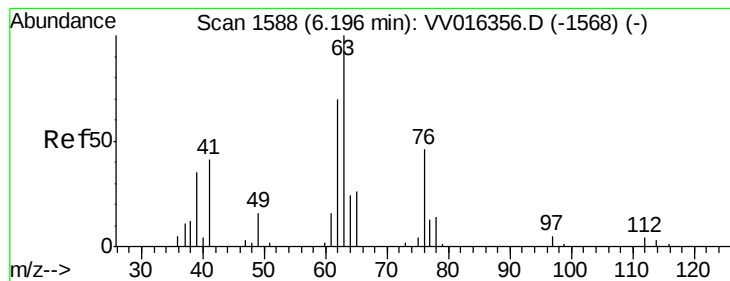
55 82.5 67.0 100.4

98 49.0 39.0 58.4



Abundance Ion 83.15 (82.85 to 83.85): VV016357.D (-1482) (-)





#37

1,2-Dichloropropane

Concen: 9.689 ug/L

RT: 6.20 min Scan# 1589

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :

MSVOA\_V

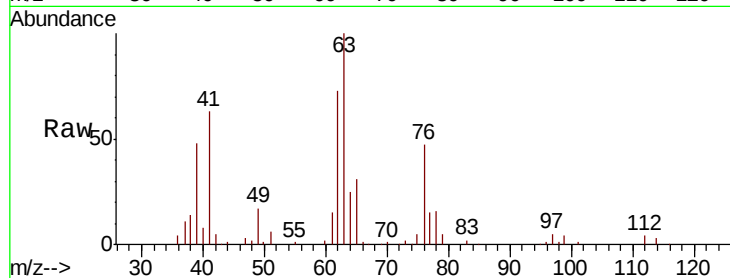
ClientSampleId :

Tot Ion: 63 Resp: 59348

Ion Ratio Lower Upper

63 100

112 4.0 3.4 5.0



Abundance Ion 63.10 (62.80 to 63.80): VV016356.D (-1568) (-)

Ion 112.10 (111.80 to 112.80): VV016356.D (-1568) (-)

6.20

30000

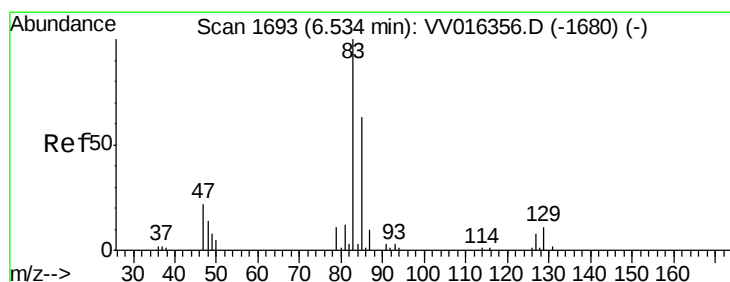
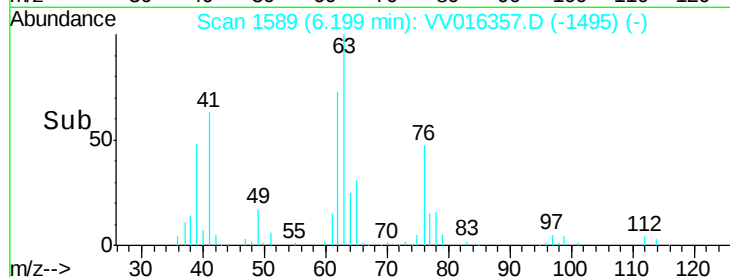
20000

10000

0

6.10 6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 10.263 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

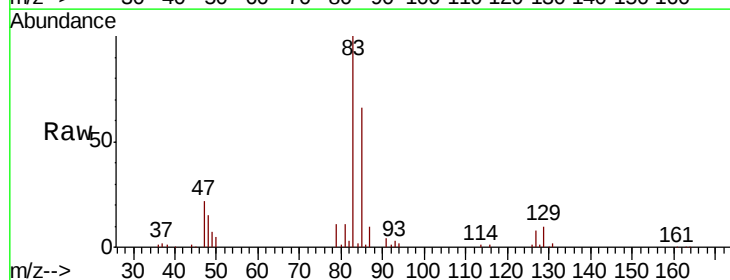
Tgt Ion: 83 Resp: 73263

Ion Ratio Lower Upper

83 100

85 66.1 44.2 82.2

127 7.6 6.3 9.5



Abundance Ion 82.95 (82.65 to 83.65): VV016356.D (-1680) (-)

Ion 85.00 (84.70 to 85.70): VV016356.D (-1680) (-)

Ion 126.90 (126.60 to 127.60): VV016356.D (-1680) (-)

6.53

50000

40000

30000

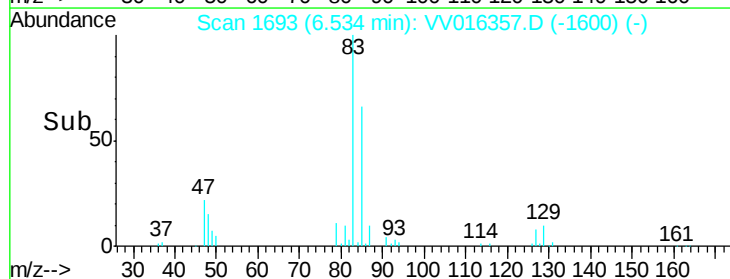
20000

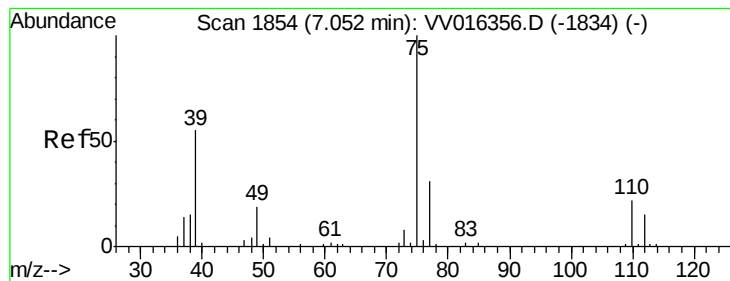
10000

0

6.50 6.55 6.60

Time-->



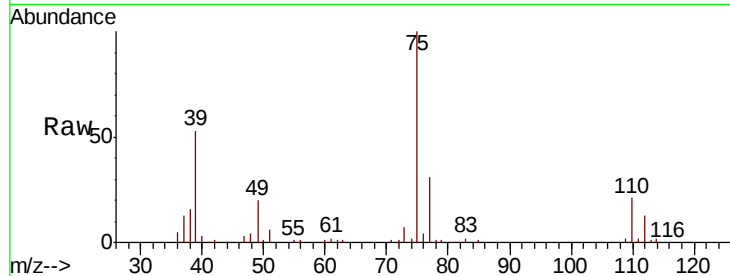


#39

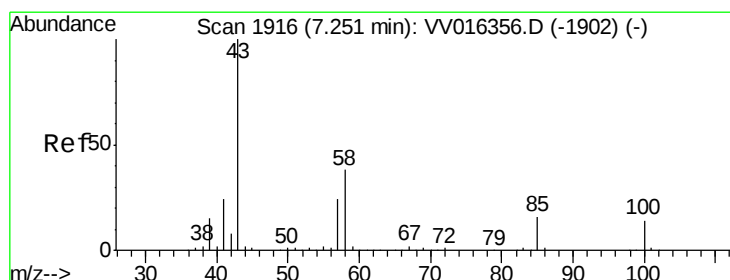
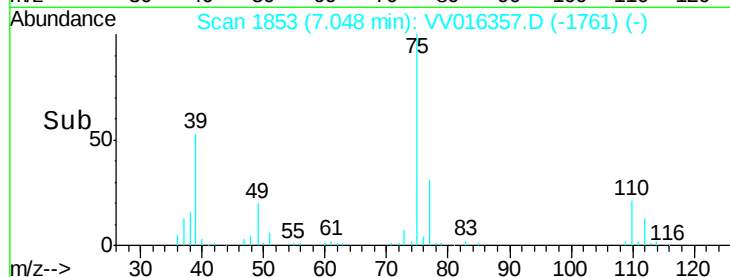
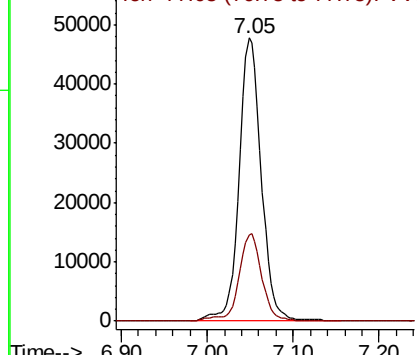
cis-1,3-Dichloropropene  
Concen: 10.951 ug/L  
RT: 7.05 min Scan# 1853  
Delta R.T. -0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 75 Resp: 85641  
Ion Ratio Lower Upper  
75 100  
77 30.6 22.0 41.0



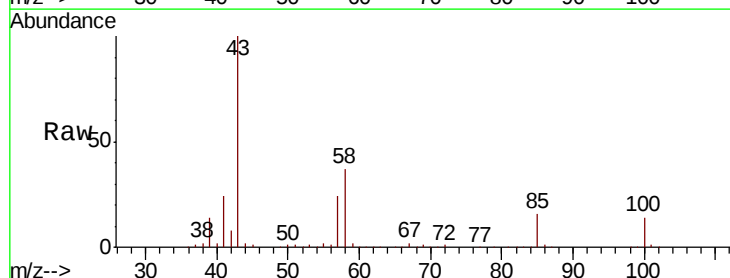
Abundance Ion 75.05 (74.75 to 75.75): VV0  
Ion 77.05 (76.75 to 77.75): VV0



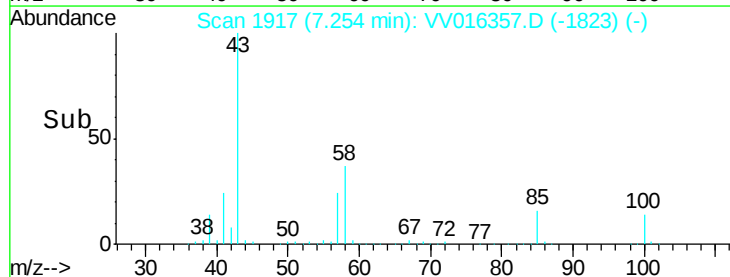
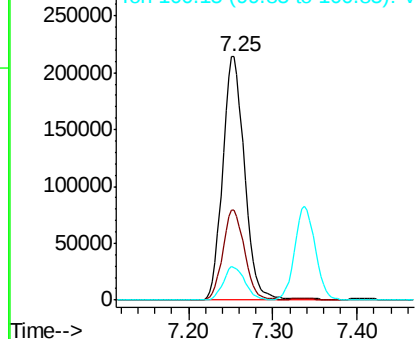
#40

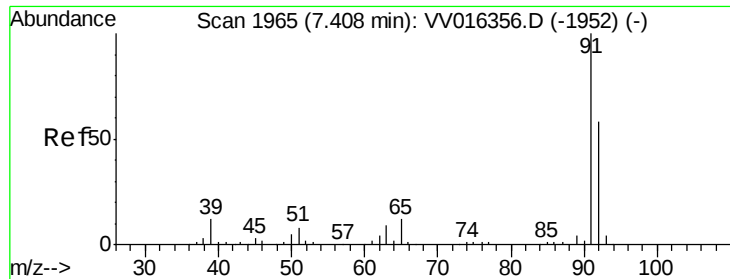
4-Methyl-2-pentanone  
Concen: 106.172 ug/L  
RT: 7.25 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

Tgt Ion: 43 Resp: 387516  
Ion Ratio Lower Upper  
43 100  
58 36.5 29.5 44.3  
100 13.6 11.0 16.6



Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 10.229 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

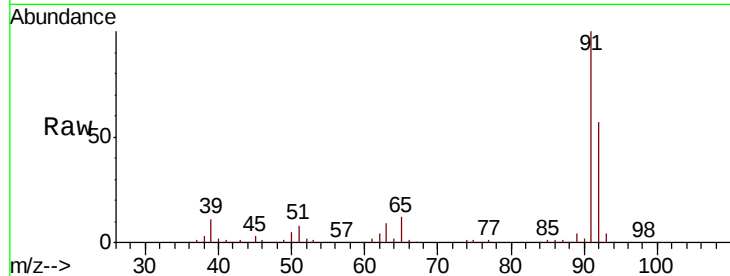
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 262621

Ion Ratio Lower Upper

91 100

92 57.4 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VV016356.D (-1952) (-)

Ion 92.15 (91.85 to 92.85): VV016357.D (-1872) (-)

7.41

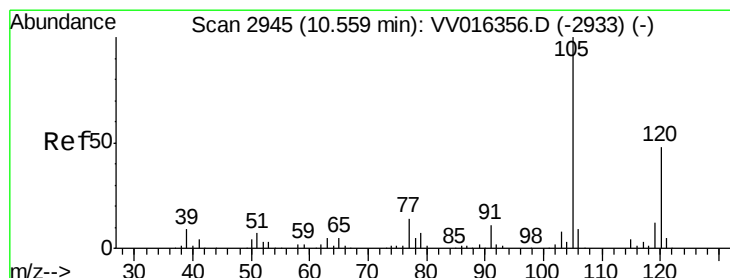
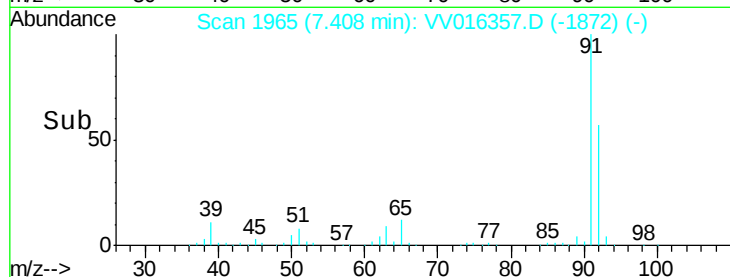
150000

100000

50000

0

Time-->



#43

1,3,5-Trimethylbenzene

Concen: 10.613 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VV016357.D

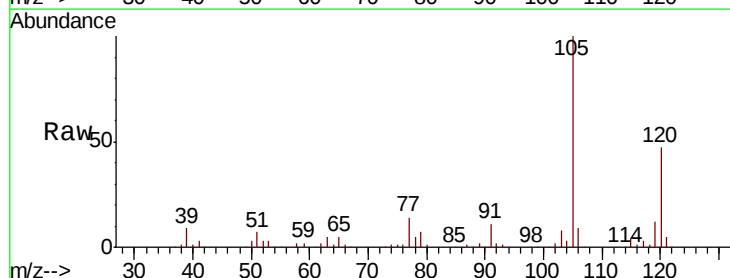
Acq: 30 May 2020 14:03

Tgt Ion:105 Resp: 250217

Ion Ratio Lower Upper

105 100

120 47.0 37.5 56.3



Abundance Ion 105.00 (104.70 to 105.70): VV016356.D (-2933) (-)

Ion 120.00 (119.70 to 120.70): VV016357.D (-2323) (-)

10.56

200000

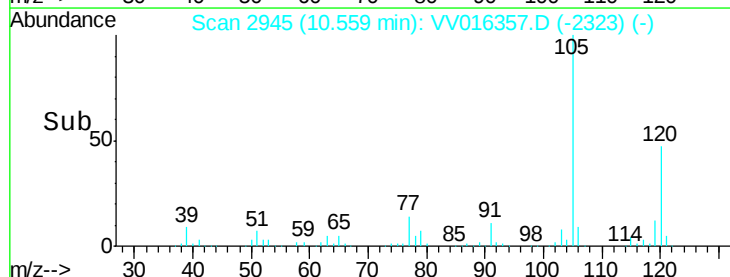
150000

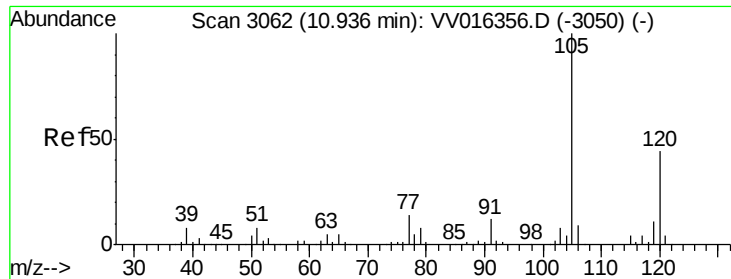
100000

50000

0

Time-->

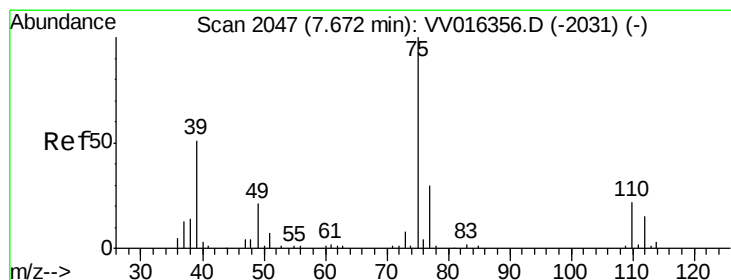
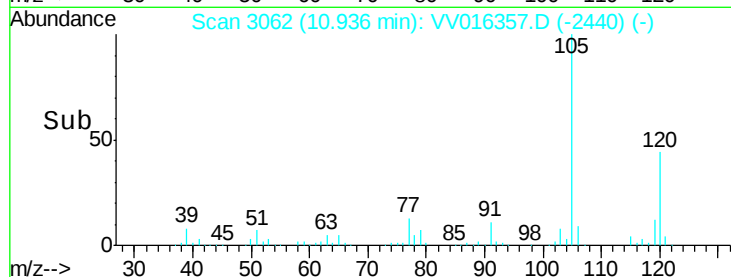
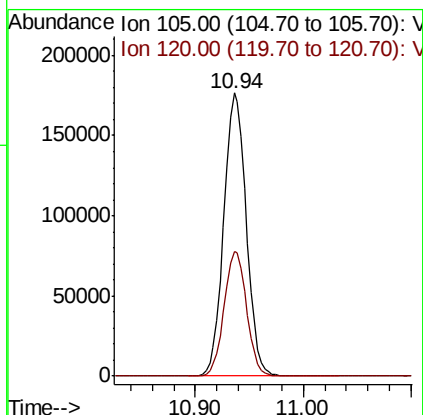
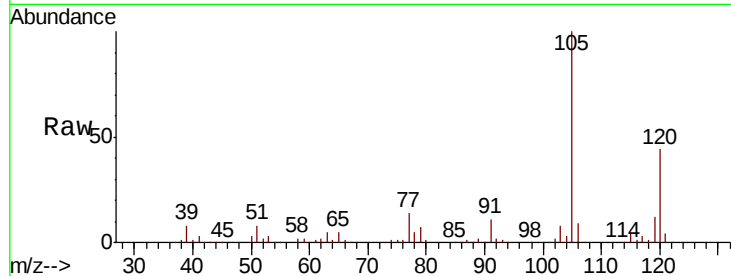




#44  
1,2,4-Trimethylbenzene  
Concen: 10.775 ug/L  
RT: 10.94 min Scan# 3062  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

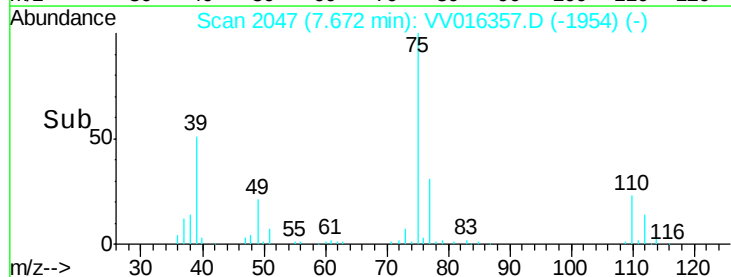
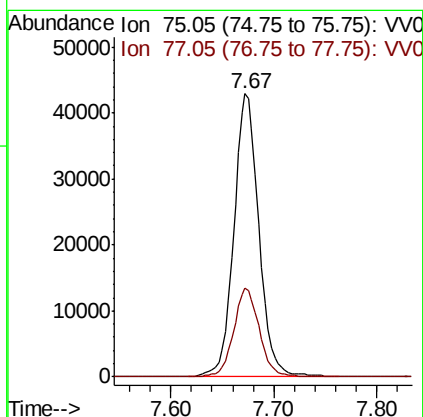
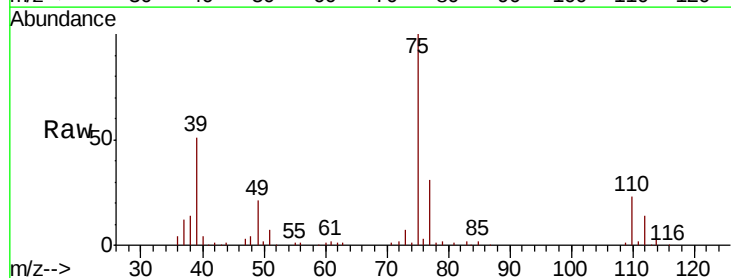
Instrument :  
MSVOA\_V  
ClientSampled :

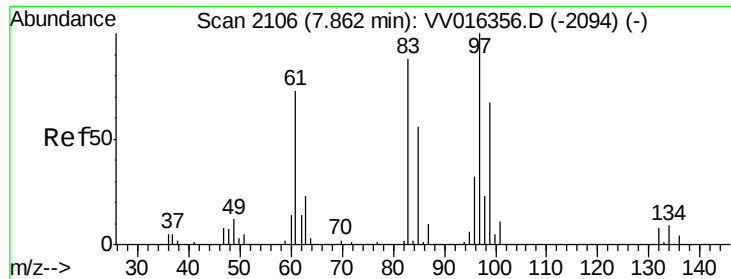
Tot Ion:105 Resp: 256816  
Ion Ratio Lower Upper  
105 100  
120 44.0 35.5 53.3



#46  
trans-1,3-Dichloropropene  
Concen: 10.793 ug/L  
RT: 7.67 min Scan# 2047  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

Tgt Ion: 75 Resp: 72536  
Ion Ratio Lower Upper  
75 100  
77 31.2 21.1 39.3

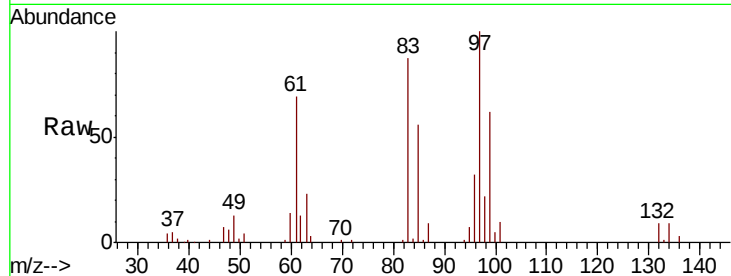




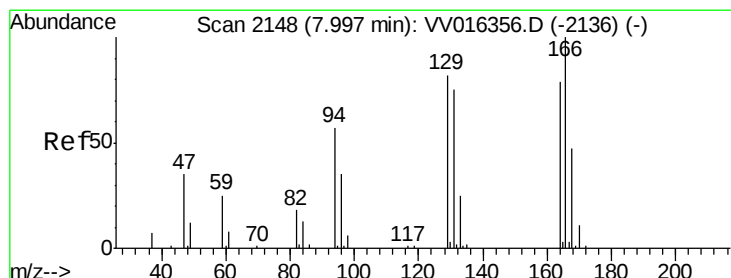
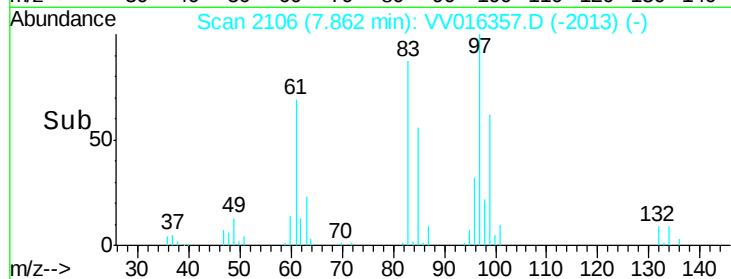
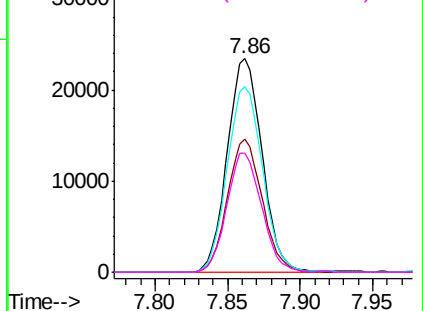
#47  
 1,1,2-Trichloroethane  
 Concen: 10.294 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. 0.00 min  
 Lab File: VV016357.D  
 Acq: 30 May 2020 14:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 39188 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.1  | 47.0  | 87.2  |
| 83       | 86.9  | 61.7  | 114.5 |
| 85       | 55.9  | 39.1  | 72.5  |

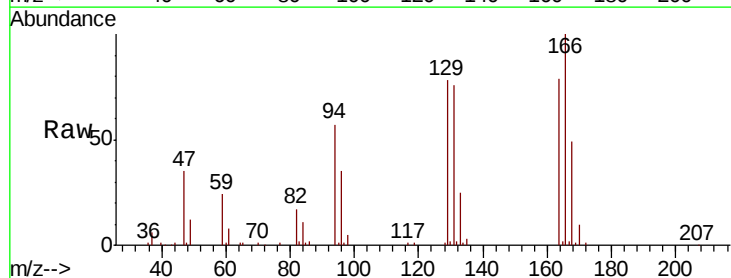


Abundance Ion 96.95 (96.65 to 97.65): VV016357.D (-2013) (-)

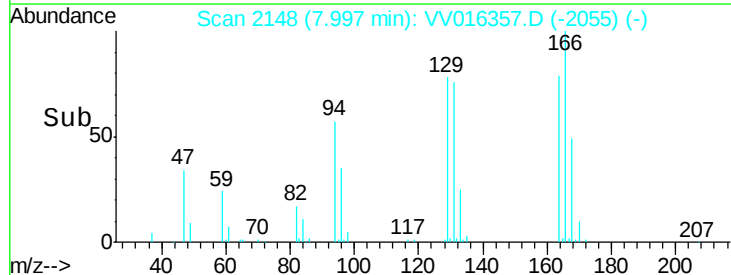
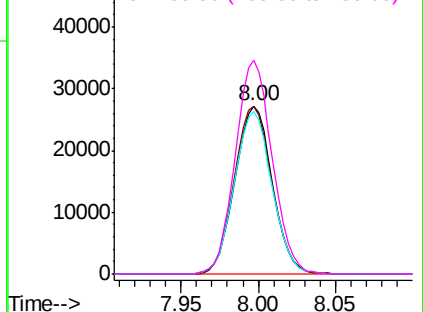


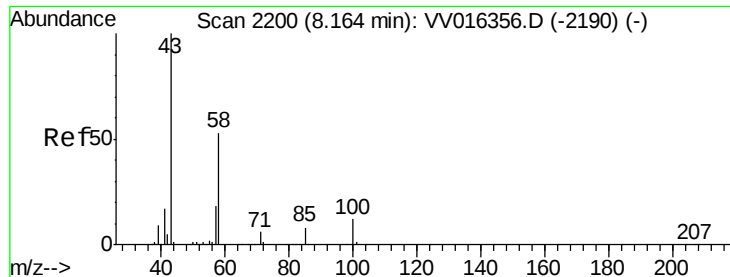
#49  
 Tetrachloroethene  
 Concen: 10.334 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. 0.00 min  
 Lab File: VV016357.D  
 Acq: 30 May 2020 14:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 45574 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 99.8  | 72.2  | 134.0 |
| 131      | 96.7  | 65.8  | 122.2 |
| 166      | 127.3 | 88.3  | 163.9 |



Abundance Ion 163.90 (163.60 to 164.60): VV016357.D (-2055) (-)

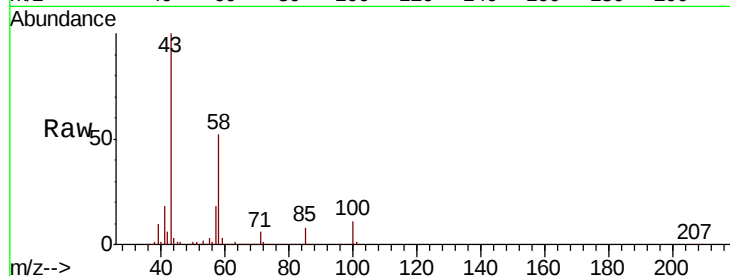




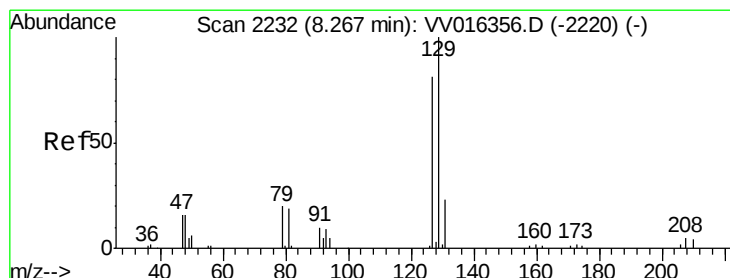
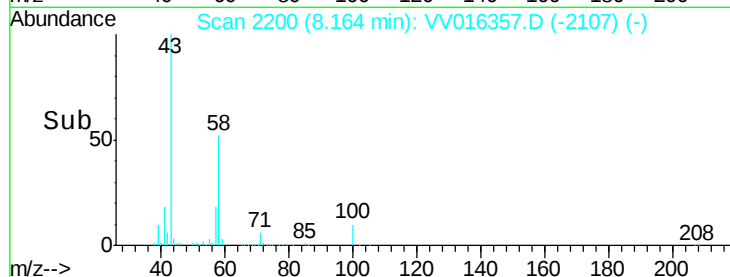
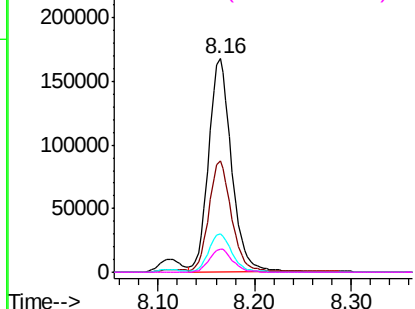
#50  
2-Hexanone  
Concen: 106.419 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 276083  
Ion Ratio Lower Upper  
43 100  
58 51.7 41.1 61.7  
57 18.1 14.2 21.4  
100 11.1 8.8 13.2

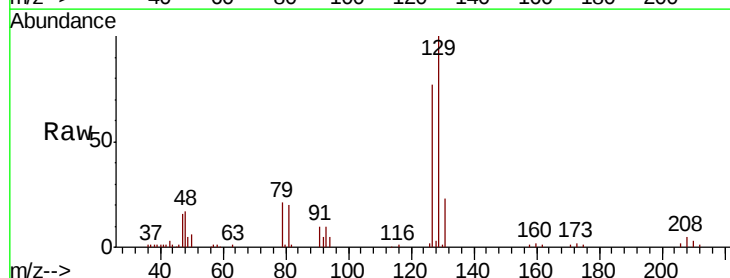


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

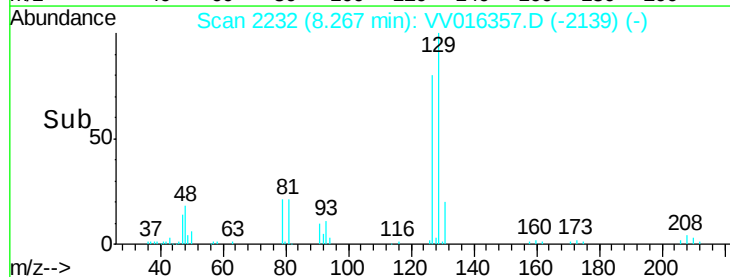
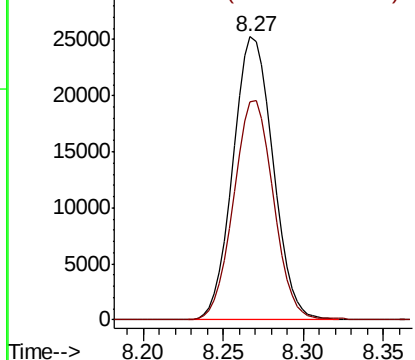


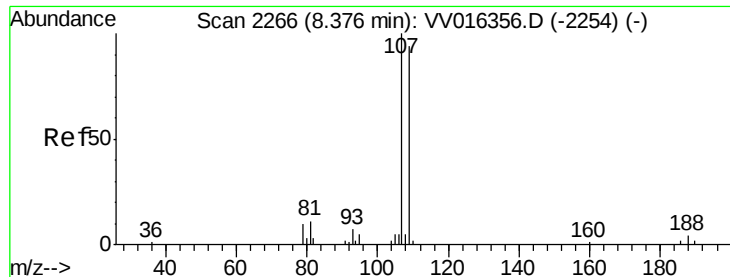
#51  
Dibromochloromethane  
Concen: 10.942 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

Tgt Ion: 129 Resp: 43104  
Ion Ratio Lower Upper  
129 100  
127 77.2 57.0 105.8



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V





#52

1,2-Dibromoethane

Concen: 10.241 ug/L

RT: 8.37 min Scan# 2265

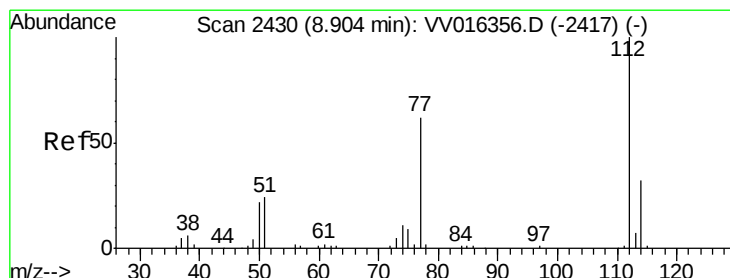
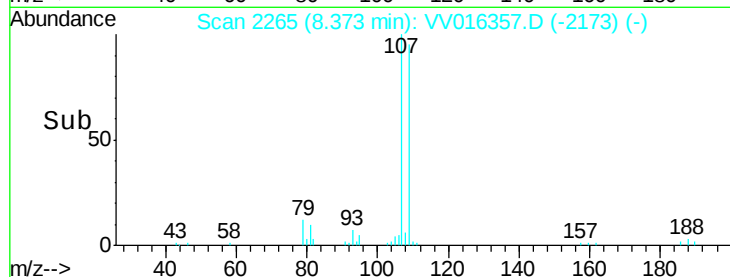
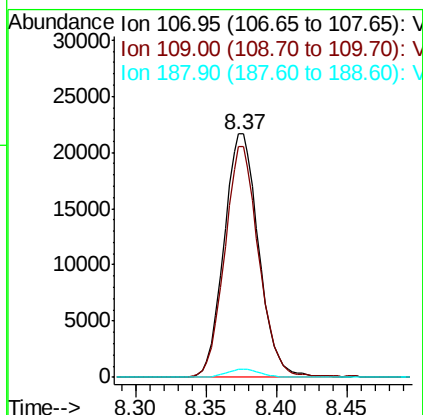
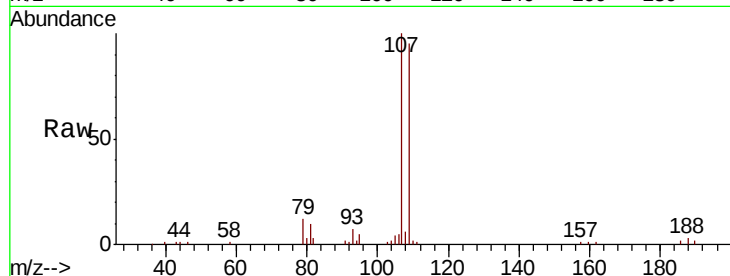
Delta R.T. -0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :  
MSVOA\_V  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 107   | Resp: | 37168 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 94.8  | 65.9  | 122.3 |
| 188      | 3.3   | 3.0   | 4.4   |



#53

Chlorobenzene

Concen: 10.237 ug/L

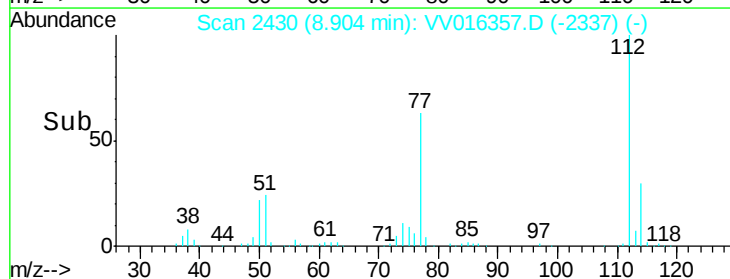
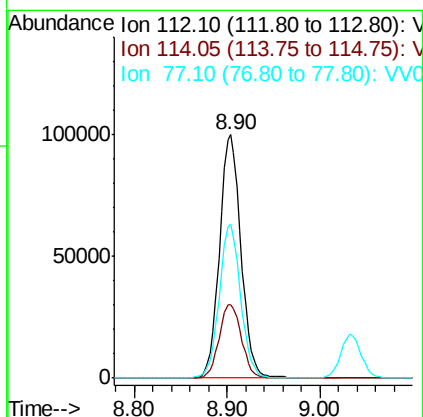
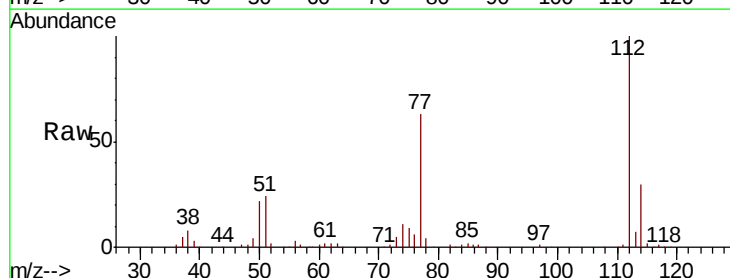
RT: 8.90 min Scan# 2430

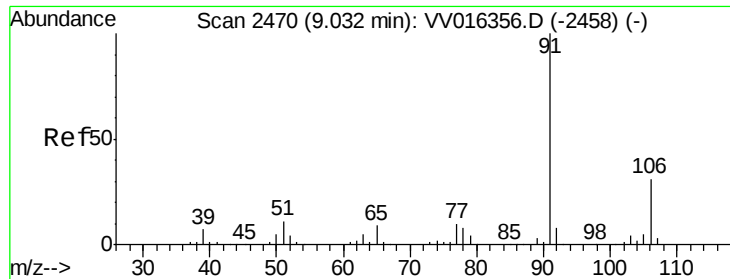
Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 159756 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 30.4  | 22.6  | 42.0   |
| 77       | 63.2  | 50.5  | 75.7   |





#54

Ethylbenzene

Concen: 10.423 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

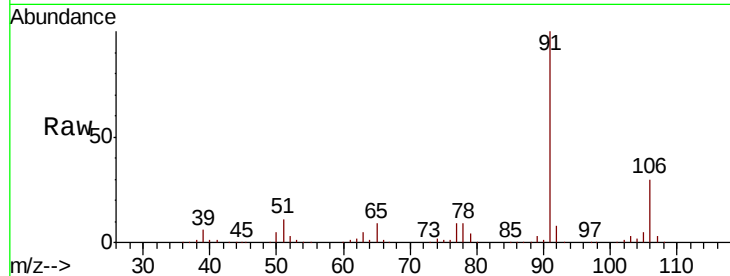
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 294429

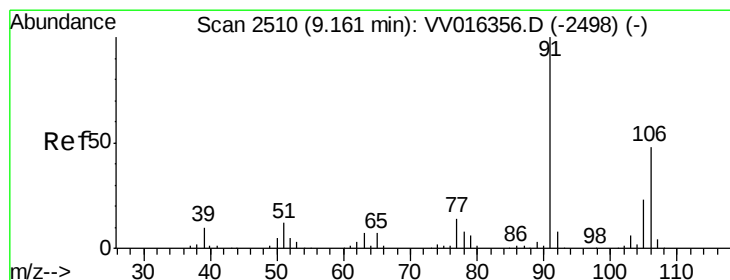
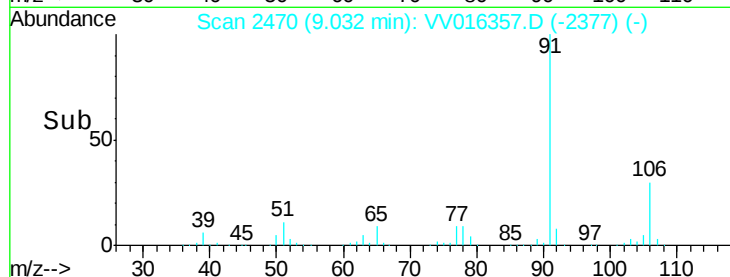
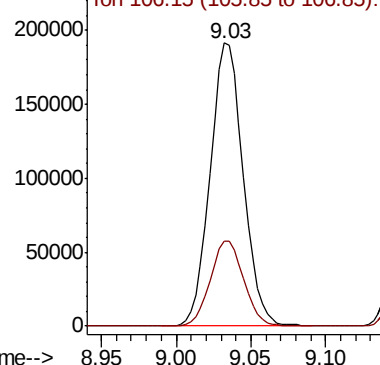
Ion Ratio Lower Upper

91 100

106 30.0 21.4 39.8



Abundance Ion 91.15 (90.85 to 91.85): VV016357.D (-2377) (-)



#55

m,p-xylene

Concen: 10.478 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV016357.D

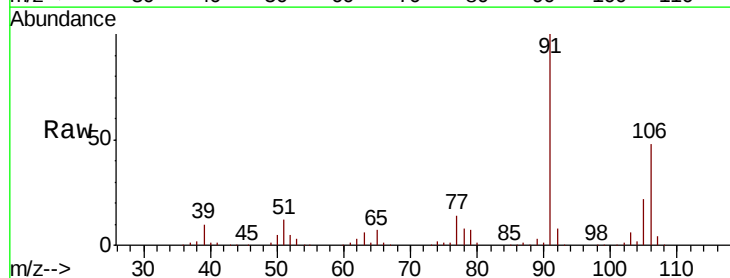
Acq: 30 May 2020 14:03

Tgt Ion: 106 Resp: 110941

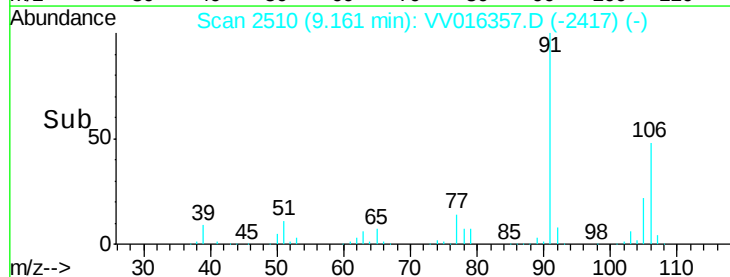
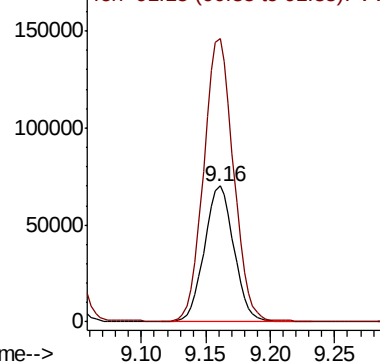
Ion Ratio Lower Upper

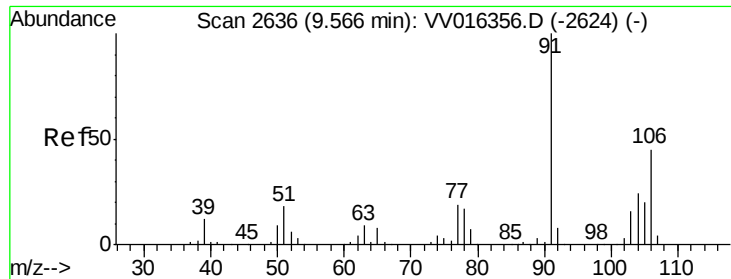
106 100

91 208.5 146.6 272.2



Abundance Ion 106.15 (105.85 to 106.85): VV016357.D (-2417) (-)

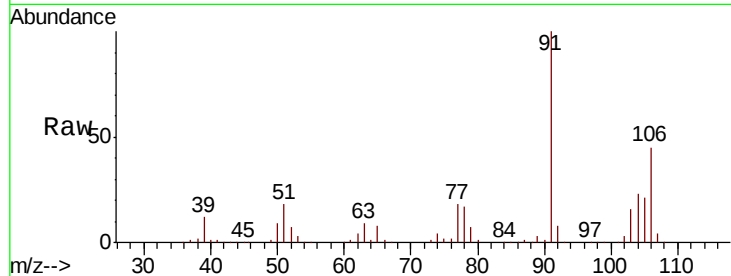




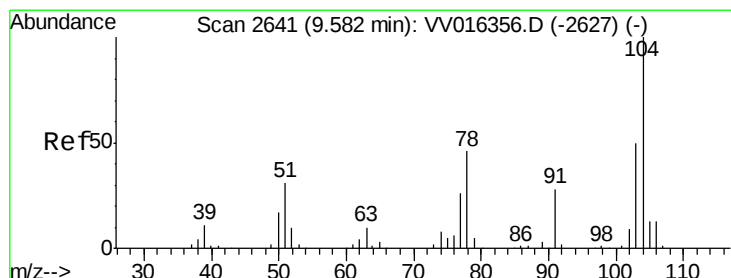
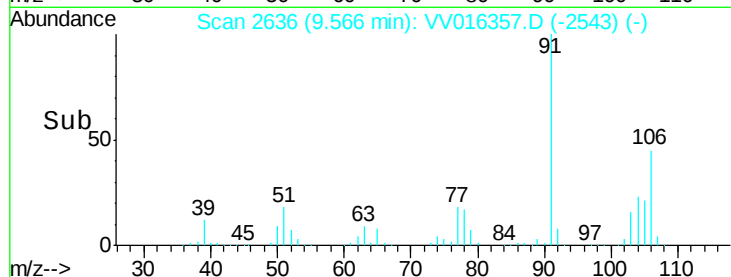
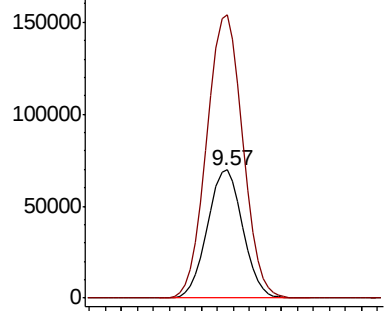
#56  
o-xylene  
Concen: 10.363 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:106 Resp: 104993  
Ion Ratio Lower Upper  
106 100  
91 220.6 155.2 288.2

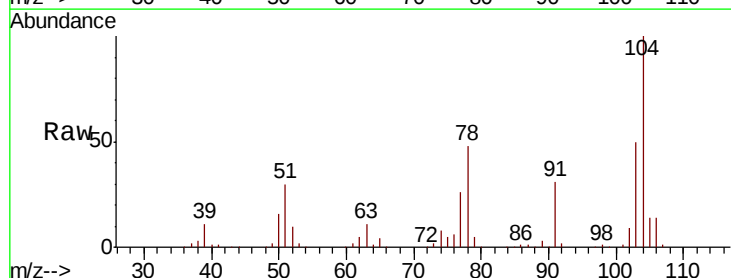


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

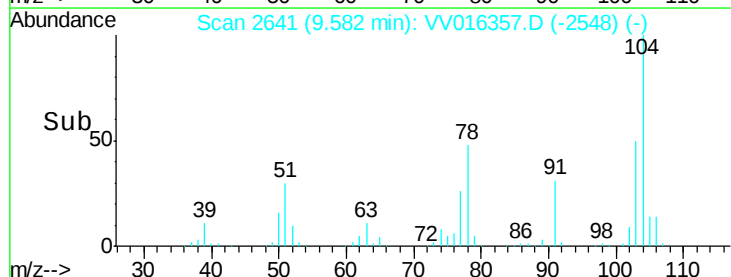
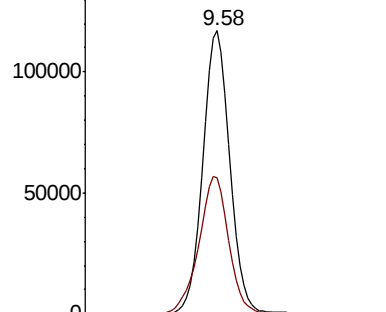


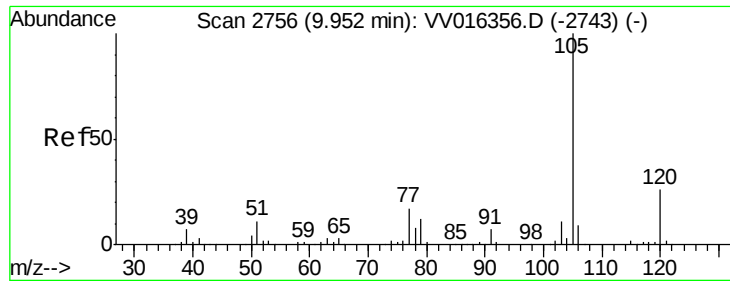
#57  
Styrene  
Concen: 10.530 ug/L  
RT: 9.58 min Scan# 2641  
Delta R.T. 0.00 min  
Lab File: VV016357.D  
Acq: 30 May 2020 14:03

Tgt Ion:104 Resp: 183940  
Ion Ratio Lower Upper  
104 100  
78 48.1 32.6 60.6



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VV0





#58

Isopropylbenzene

Concen: 10.679 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :

MSVOA\_V

ClientSampled :

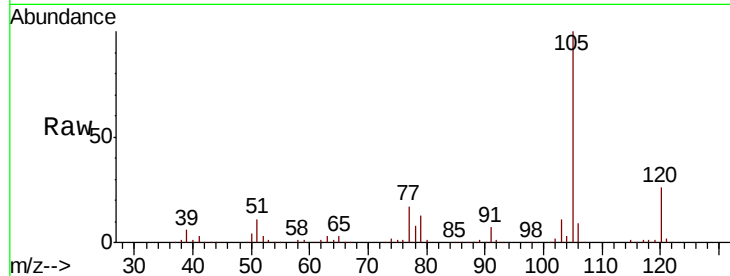
Tot Ion:105 Resp: 292110

Ion Ratio Lower Upper

105 100

120 25.5 20.7 31.1

77 16.9 13.4 20.2

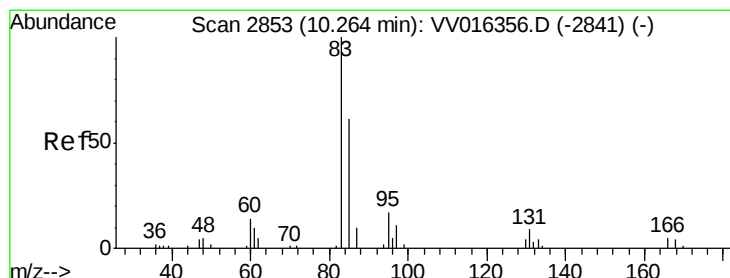
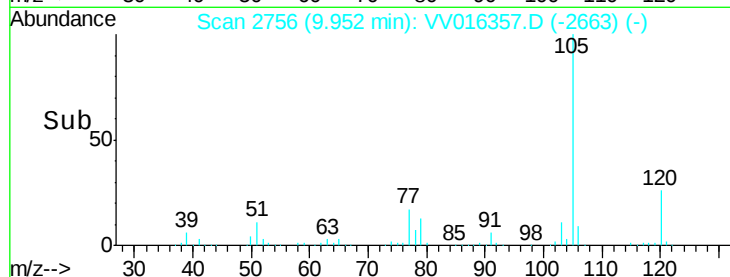


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V

Time-->



#60

1,1,2,2-Tetrachloroethane

Concen: 10.403 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

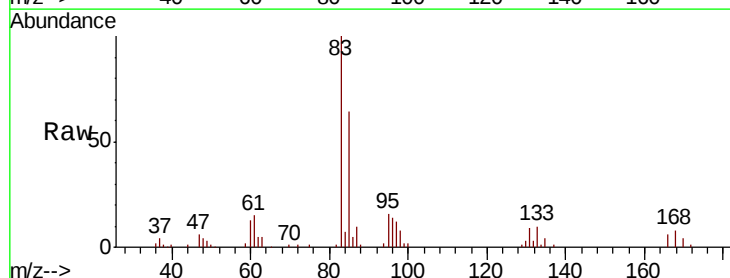
Tgt Ion: 83 Resp: 49205

Ion Ratio Lower Upper

83 100

85 63.9 43.7 81.1

131 8.8 7.8 11.6

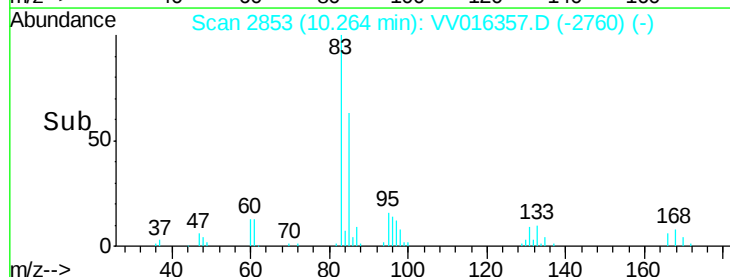


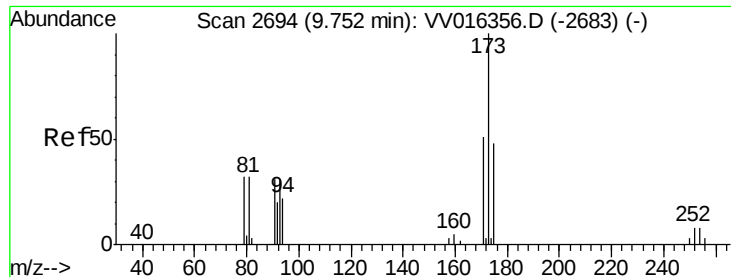
Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

Time-->





#62

Bromoform

Concen: 10.899 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :  
MSVOA\_V  
ClientSampled :

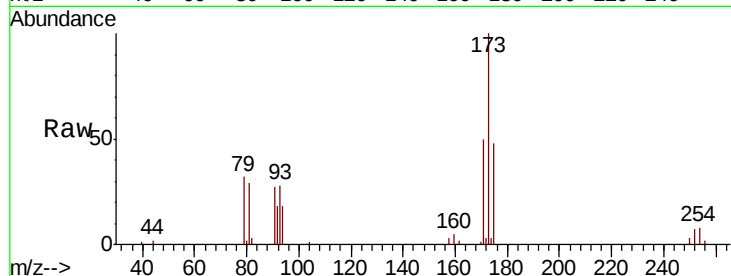
Tot Ion:173 Resp: 18305

Ion Ratio Lower Upper

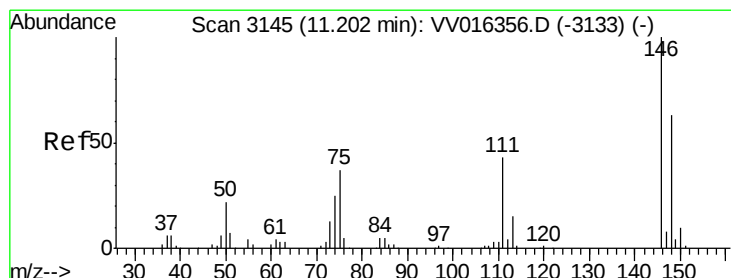
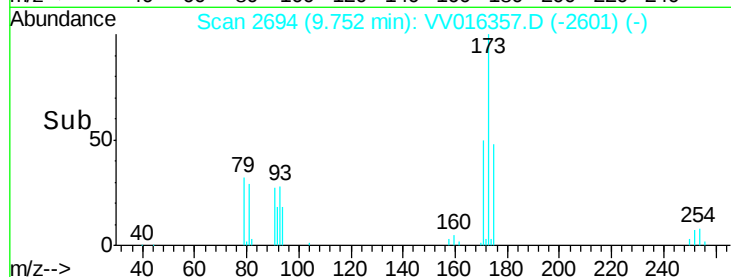
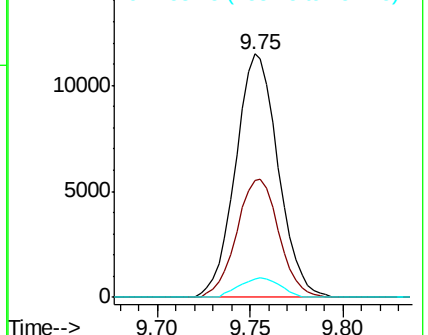
173 100

175 48.2 38.3 57.5

254 7.7 5.8 8.6



Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V



#63

1,3-Dichlorobenzene

Concen: 10.098 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

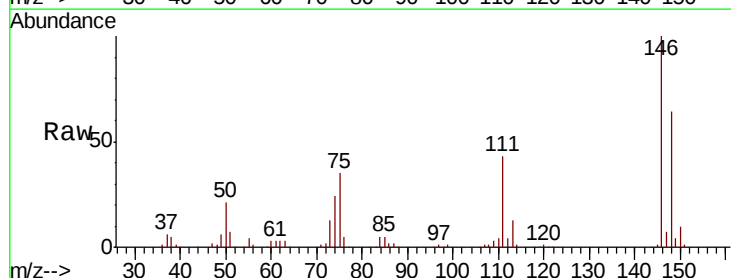
Tgt Ion:146 Resp: 126350

Ion Ratio Lower Upper

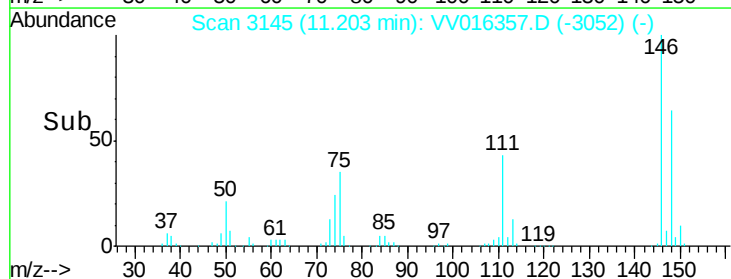
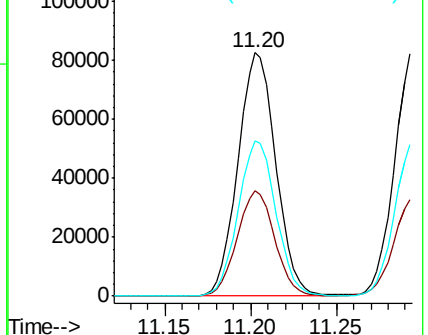
146 100

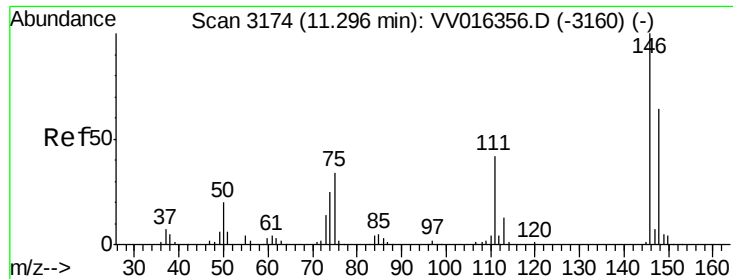
111 43.3 30.3 56.3

148 63.9 44.3 82.3



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





#64

1,4-Dichlorobenzene

Concen: 10.259 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

Instrument :

MSVOA\_V

ClientSampled :

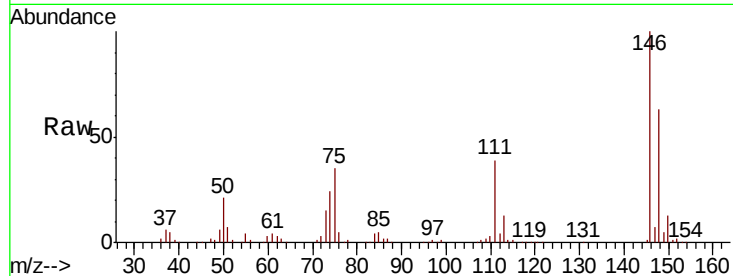
Tot Ion:146 Resp: 127758

Ion Ratio Lower Upper

146 100

111 39.5 29.6 55.0

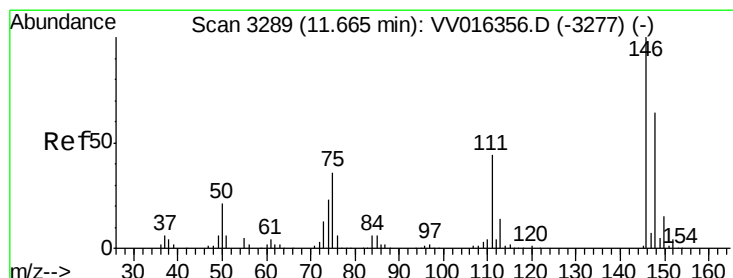
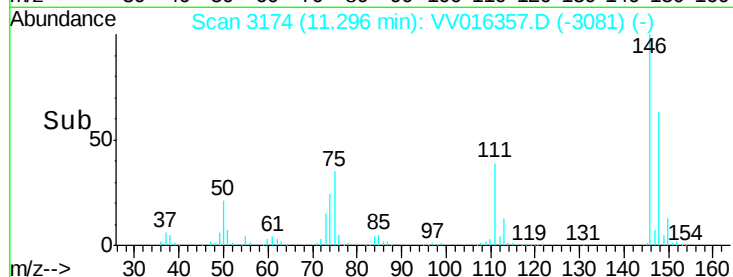
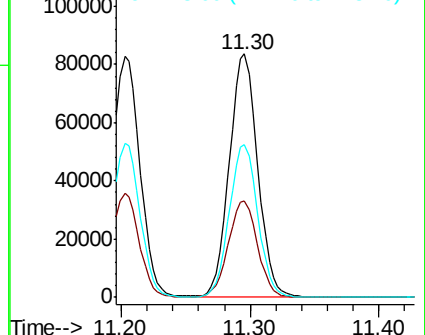
148 62.9 44.7 83.1



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dichlorobenzene

Concen: 10.282 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV016357.D

Acq: 30 May 2020 14:03

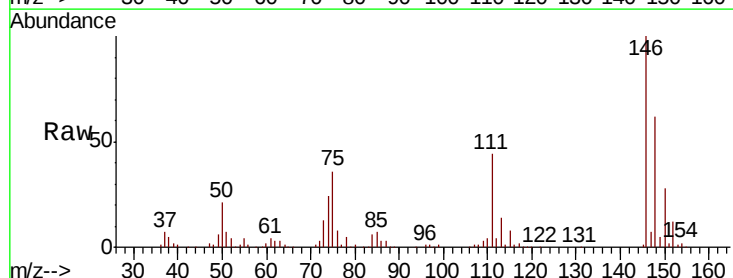
Tgt Ion:146 Resp: 115543

Ion Ratio Lower Upper

146 100

111 44.2 35.4 53.2

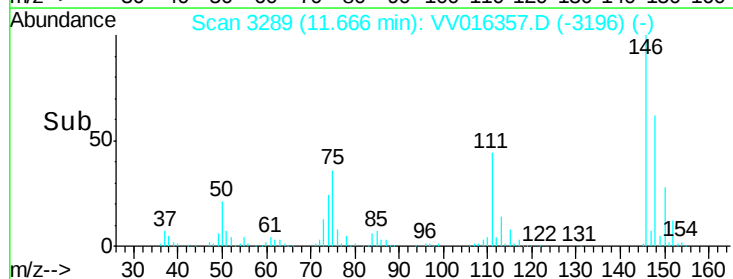
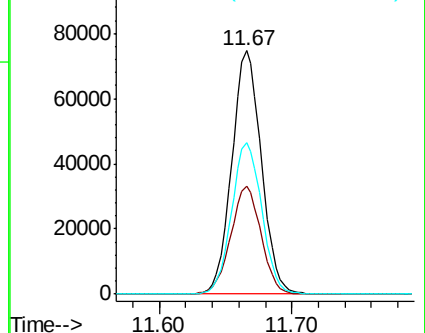
148 62.0 51.0 76.4

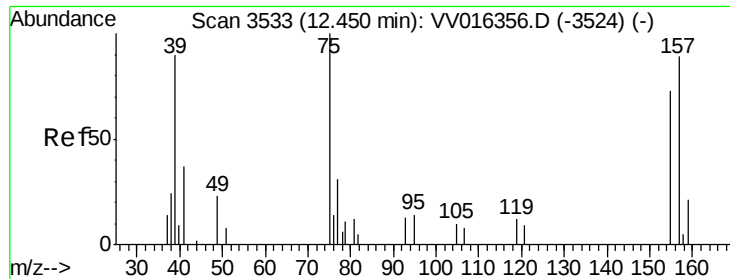


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

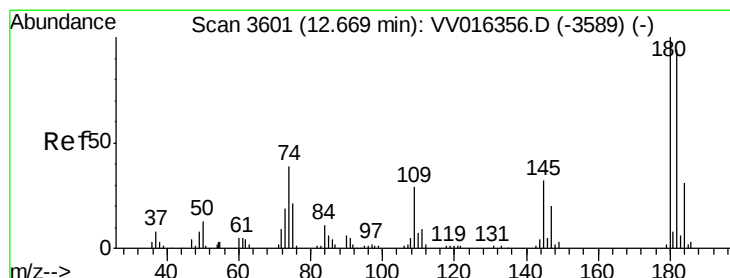
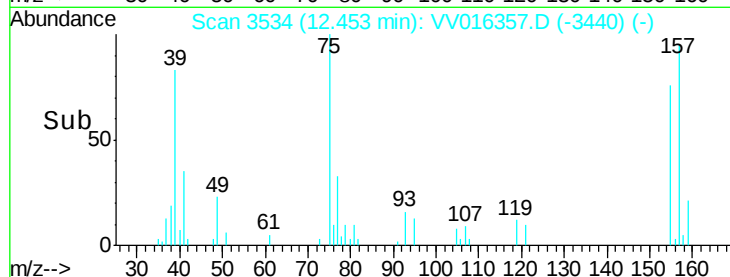
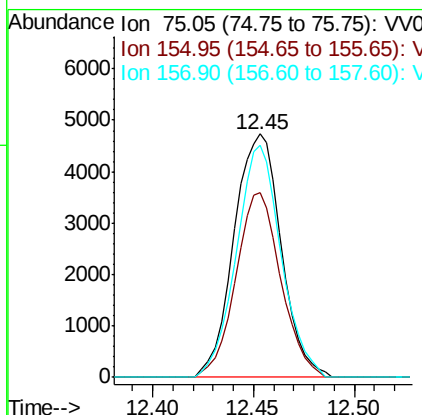
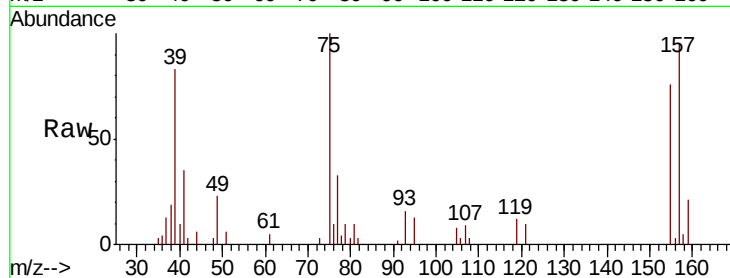




#67  
 1,2-Dibromo-3-chloropropane  
 Concen: 10.670 ug/L  
 RT: 12.45 min Scan# 3534  
 Delta R.T. 0.00 min  
 Lab File: VV016357.D  
 Acq: 30 May 2020 14:03

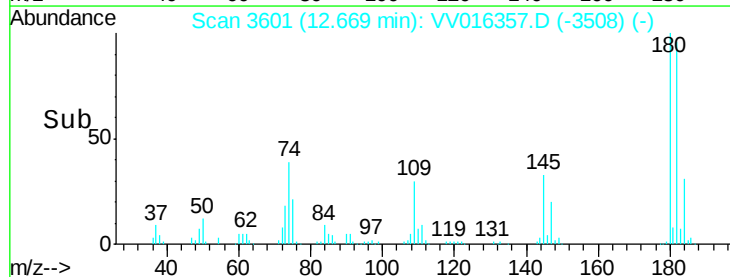
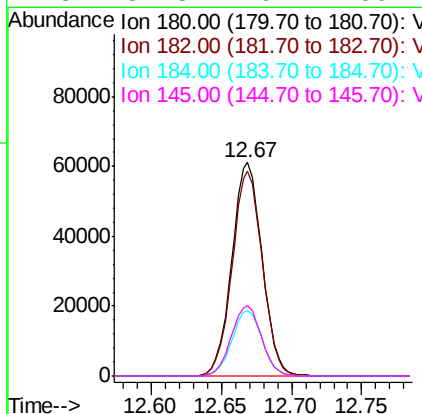
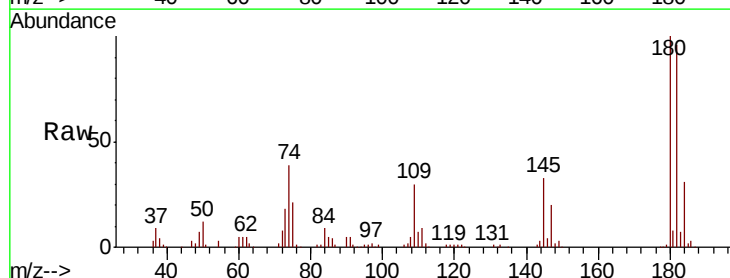
Instrument :  
 MSVOA\_V  
 ClientSampleId :

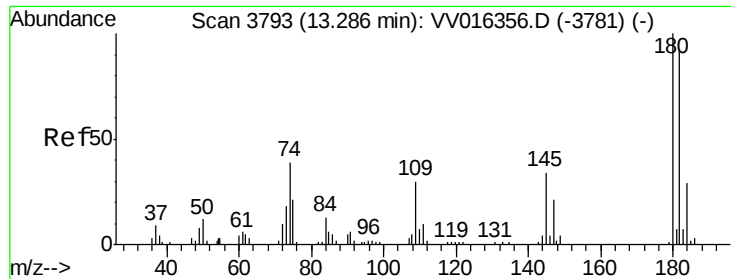
Tot Ion: 75 Resp: 7749  
 Ion Ratio Lower Upper  
 75 100  
 155 76.1 58.1 87.1  
 157 95.4 71.0 106.4



#68  
 1,3,5-Trichlorobenzene  
 Concen: 10.282 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. 0.00 min  
 Lab File: VV016357.D  
 Acq: 30 May 2020 14:03

Tgt Ion: 180 Resp: 91789  
 Ion Ratio Lower Upper  
 180 100  
 182 95.8 75.5 113.3  
 184 30.7 24.2 36.2  
 145 32.8 26.2 39.2

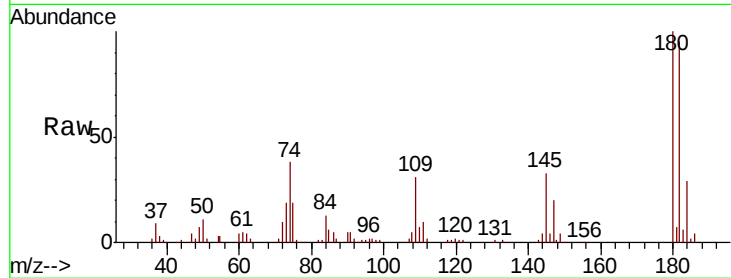




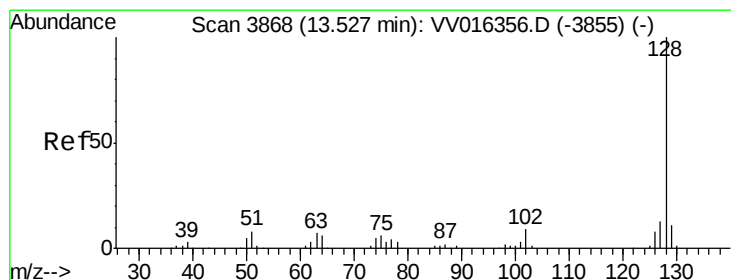
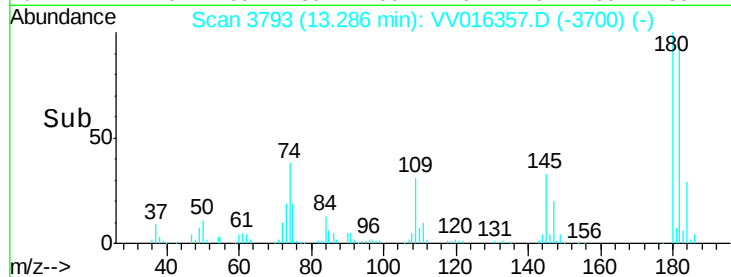
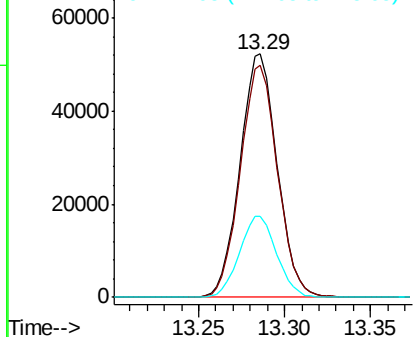
#69  
 1,2,4-trichlorobenzene  
 Concen: 10.552 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV016357.D  
 Acq: 30 May 2020 14:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion:180 Resp: 78342  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 76.4 114.6  
 145 33.2 26.9 40.3

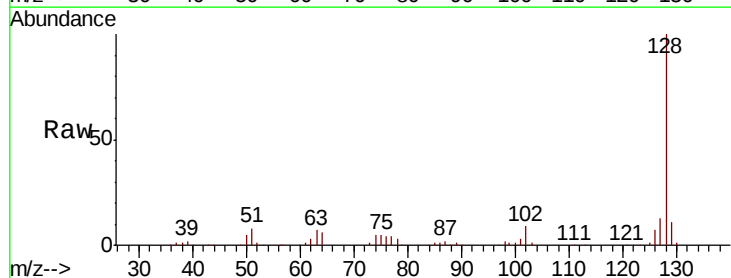


Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V

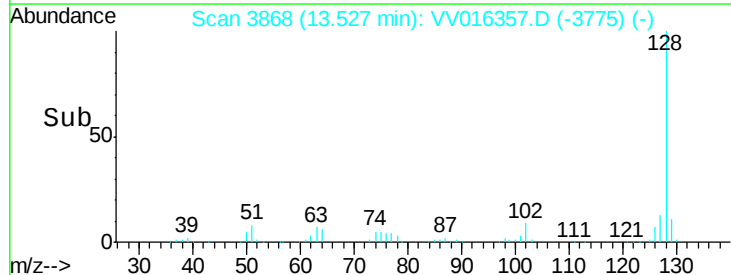
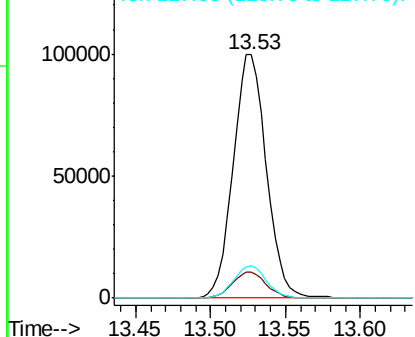


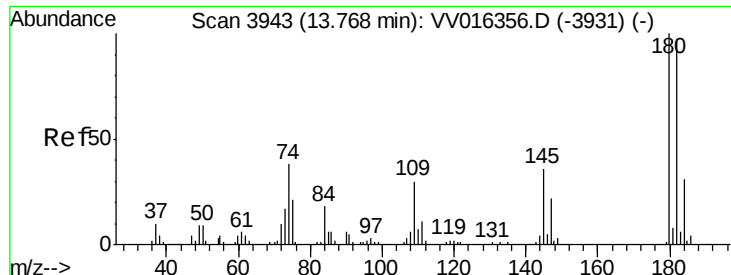
#70  
 Naphthalene  
 Concen: 10.657 ug/L  
 RT: 13.53 min Scan# 3868  
 Delta R.T. 0.00 min  
 Lab File: VV016357.D  
 Acq: 30 May 2020 14:03

Tgt Ion:128 Resp: 154004  
 Ion Ratio Lower Upper  
 128 100  
 129 10.7 8.6 12.8  
 127 13.1 10.7 16.1



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





#71  
 1,2,3-Trichlorobenzene  
 Concen: 10.581 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV016357.D  
 Acq: 30 May 2020 14:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion:180 Resp: 71419  
 Ion Ratio Lower Upper  
 180 100  
 182 92.9 75.1 112.7  
 145 34.6 28.5 42.7

