

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062520\  
 Data File : VV017143.D  
 Acq On : 25 Jun 2020 21:36  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

Quant Time: Jun 26 01:39:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 26 01:31:34 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 168498   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 165335   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 88108    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 51878    | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 102.60% |
| 7) Chloroethane-d5             | 1.58   | 69    | 39067    | 5.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 106.20% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 98432    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 102.20% |
| 20) 2-Butanone-d5              | 3.96   | 46    | 58409    | 22.66    | ug/L | 0.02    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 45.32%  |
| 24) Chloroform-d               | 4.38   | 84    | 113980   | 5.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.40% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 58749    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.40% |
| 32) Benzene-d6                 | 5.07   | 84    | 209434   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 58760    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.60%  |
| 41) Toluene-d8                 | 7.34   | 98    | 197062   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.00%  |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 24547    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.80%  |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 93028    | 45.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 91.30%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 44288    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 103.80% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 73451    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 90.20%  |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 68503  | 5.093  | ug/L 100  |
| 3) Chloromethane               | 1.25 | 50  | 56758  | 4.979  | ug/L 99   |
| 5) Vinyl chloride              | 1.32 | 62  | 54668  | 4.944  | ug/L 97   |
| 6) Bromomethane                | 1.53 | 94  | 30162  | 4.680  | ug/L 99   |
| 8) Chloroethane                | 1.60 | 64  | 31035  | 5.079  | ug/L 100  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 98544  | 5.504  | ug/L 97   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 46160  | 5.172  | ug/L 99   |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 42052  | 5.200  | ug/L 87   |
| 13) Acetone                    | 2.24 | 43  | 59383  | 45.578 | ug/L 70   |
| 14) Carbon disulfide           | 2.31 | 76  | 117240 | 4.839  | ug/L 98   |
| 15) Methyl Acetate             | 2.46 | 43  | 14182  | 4.452  | ug/L 99   |
| 16) Methylene chloride         | 2.52 | 84  | 42080  | 4.859  | ug/L 100  |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 105061 | 5.174  | ug/L 98   |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 45523  | 5.312  | ug/L 95   |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 105115 | 5.459  | ug/L 98   |
| 21) 2-Butanone                 | 4.05 | 43  | 113150 | 46.071 | ug/L # 66 |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 59614  | 5.087  | ug/L 97   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062520\  
 Data File : VV017143.D  
 Acq On : 25 Jun 2020 21:36  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

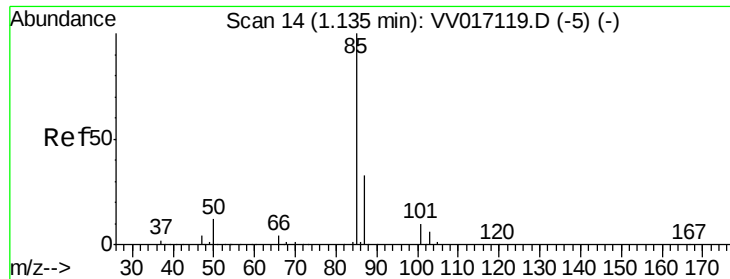
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

Quant Time: Jun 26 01:39:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 26 01:31:34 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.27  | 128  | 27177    | 5.457  | ug/L  | 98       |
| 25) Chloroform                 | 4.41  | 83   | 114163   | 5.428  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 68322    | 5.229  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 103630   | 5.232  | ug/L  | 99       |
| 30) Cyclohexane                | 4.70  | 56   | 86882    | 4.609  | ug/L  | 97       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 93510    | 5.232  | ug/L  | 98       |
| 33) Benzene                    | 5.12  | 78   | 225795   | 5.215  | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 61515    | 4.852  | ug/L  | 96       |
| 35) Methylcyclohexane          | 6.15  | 83   | 90306    | 4.582  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 52532    | 4.901  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.53  | 83   | 76575    | 5.260  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 76447    | 4.801  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 308278   | 49.814 | ug/L  | 100      |
| 42) Toluene                    | 7.41  | 91   | 247854   | 4.924  | ug/L  | 100      |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 226308   | 5.027  | ug/L  | 100      |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 236557   | 5.161  | ug/L  | 100      |
| 46) trans-1,3-Dichloropropene  | 7.67  | 75   | 66802    | 4.850  | ug/L  | 99       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 38855    | 5.111  | ug/L  | 97       |
| 49) Tetrachloroethene          | 8.00  | 164  | 51643    | 5.061  | ug/L  | 98       |
| 50) 2-Hexanone                 | 8.16  | 43   | 219307   | 49.796 | ug/L  | 99       |
| 51) Dibromochloromethane       | 8.27  | 129  | 49604    | 5.383  | ug/L  | 99       |
| 52) 1,2-Dibromoethane          | 8.37  | 107  | 35939    | 4.985  | ug/L  | 98       |
| 53) Chlorobenzene              | 8.90  | 112  | 160676   | 5.120  | ug/L  | 99       |
| 54) Ethylbenzene               | 9.03  | 91   | 272028   | 5.063  | ug/L  | 99       |
| 55) m,p-xylene                 | 9.16  | 106  | 102542   | 4.866  | ug/L  | 97       |
| 56) o-xylene                   | 9.56  | 106  | 96823    | 4.923  | ug/L  | 99       |
| 57) Styrene                    | 9.58  | 104  | 172485   | 5.293  | ug/L  | 98       |
| 58) Isopropylbenzene           | 9.95  | 105  | 277649   | 5.130  | ug/L  | 99       |
| 60) 1,1,1,2-Tetrachloroethane  | 10.26 | 83   | 44038    | 5.600  | ug/L  | 99       |
| 62) Bromoform                  | 9.75  | 173  | 26819    | 5.689  | ug/L  | 96       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 134205   | 5.060  | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene        | 11.29 | 146  | 134555   | 4.991  | ug/L  | 99       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 124389   | 5.167  | ug/L  | 98       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 7295     | 5.479  | ug/L  | 94       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 101532   | 4.764  | ug/L  | 99       |
| 69) 1,2,4-trichlorobenzene     | 13.28 | 180  | 84389    | 4.810  | ug/L  | 99       |
| 70) Naphthalene                | 13.52 | 128  | 122468   | 4.944  | ug/L  | 100      |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 76442    | 5.342  | ug/L  | 98       |

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





#2

Dichlorodifluoromethane

Concen: 5.093 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampleId :

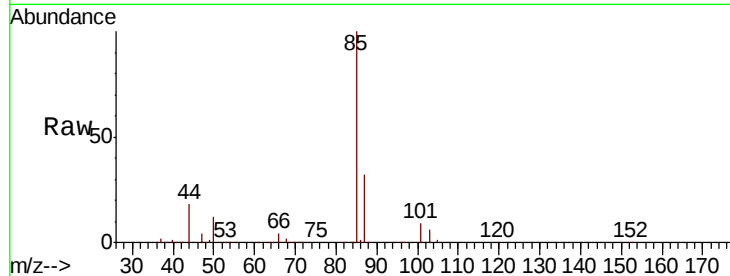
VSTD00560

Tot Ion: 85 Resp: 68503

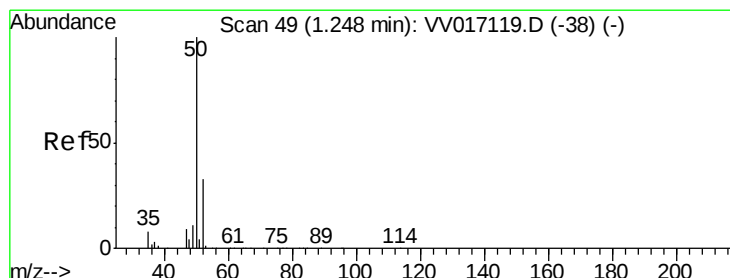
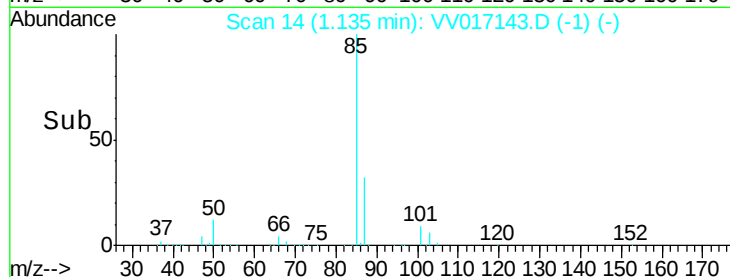
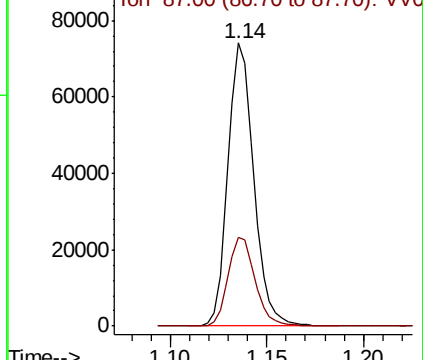
Ion Ratio Lower Upper

85 100

87 32.9 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV017143.D (-1) (-)



#3

Chloromethane

Concen: 4.979 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV017143.D

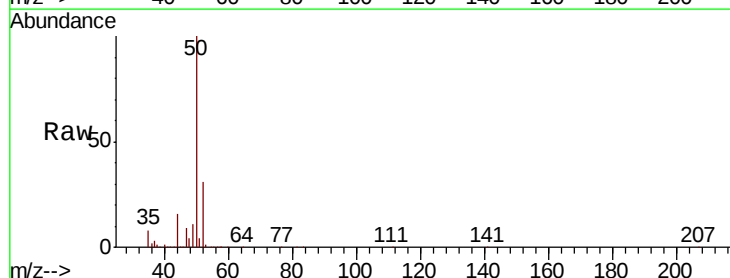
Acq: 25 Jun 2020 21:36

Tgt Ion: 50 Resp: 56758

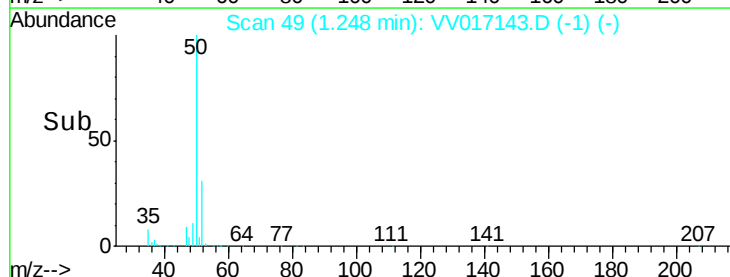
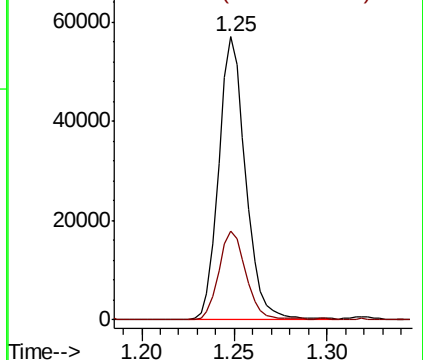
Ion Ratio Lower Upper

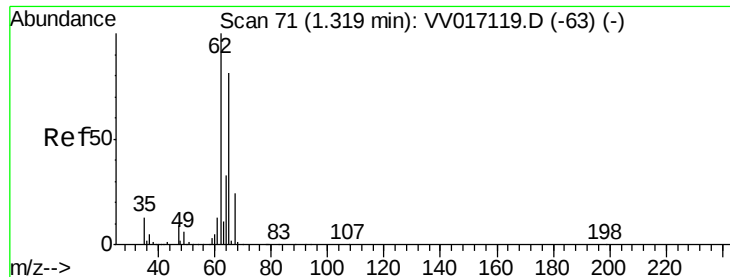
50 100

52 31.4 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV017143.D (-1) (-)





#5

Vinyl chloride

Concen: 4.944 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampleId :

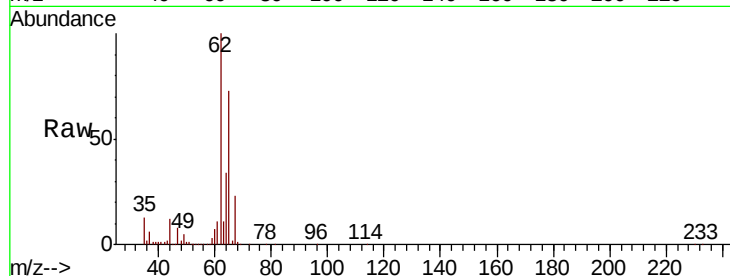
VSTD00560

Tot Ion: 62 Resp: 54668

Ion Ratio Lower Upper

62 100

64 34.0 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

60000

50000

40000

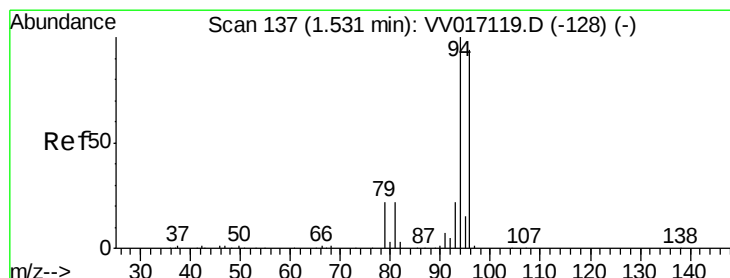
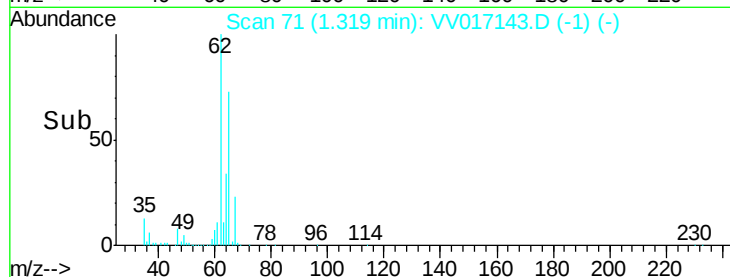
30000

20000

10000

0

Time--> 1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 4.680 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV017143.D

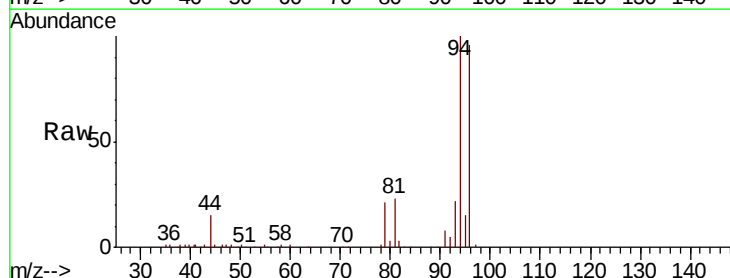
Acq: 25 Jun 2020 21:36

Tgt Ion: 94 Resp: 30162

Ion Ratio Lower Upper

94 100

96 95.6 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

30000

25000

20000

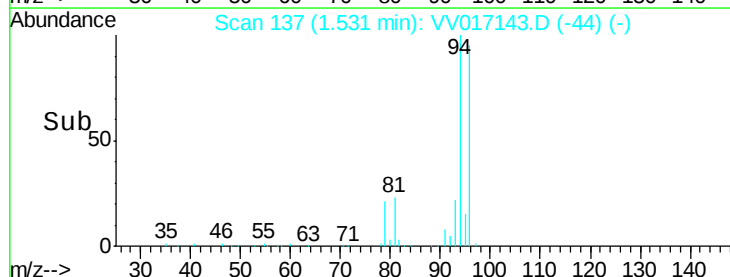
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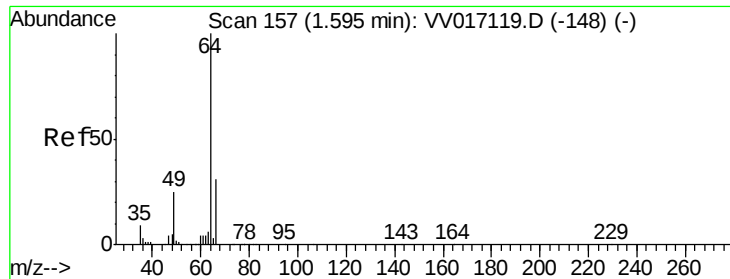
10000

5000

0

Time--> 1.50 1.55 1.60





#8

Chloroethane

Concen: 5.079 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampleId :

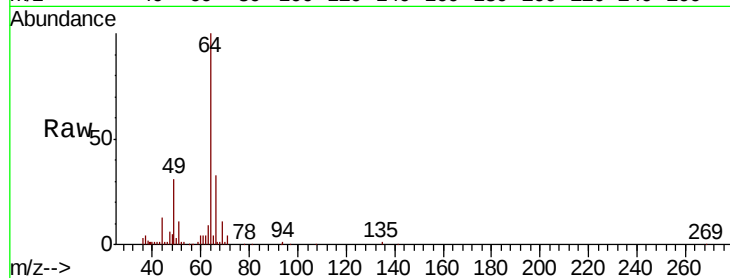
VSTD00560

Tot Ion: 64 Resp: 31035

Ion Ratio Lower Upper

64 100

66 32.7 22.8 42.4



Abundance Ion 64.10 (63.80 to 64.80): VV017143.D (-64) (-)

Ion 66.05 (65.75 to 66.75): VV017143.D (-64) (-)

1.60

30000

25000

20000

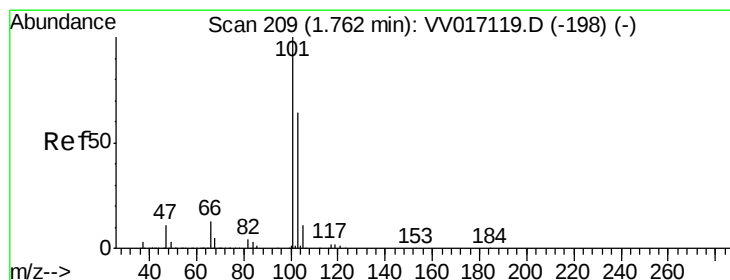
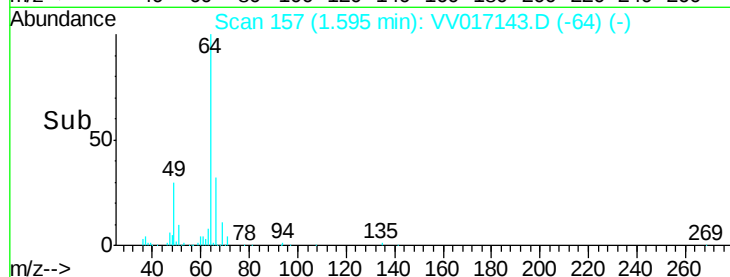
15000

10000

5000

0

Time-->



#9

Trichlorofluoromethane

Concen: 5.504 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV017143.D

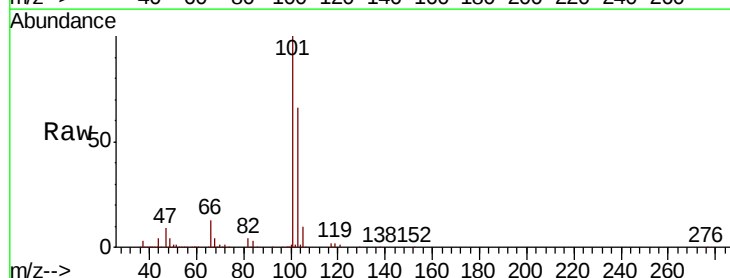
Acq: 25 Jun 2020 21:36

Tgt Ion: 101 Resp: 98544

Ion Ratio Lower Upper

101 100

103 66.2 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): VV017143.D (-116) (-)

Ion 103.00 (102.70 to 103.70): VV017143.D (-116) (-)

1.77

80000

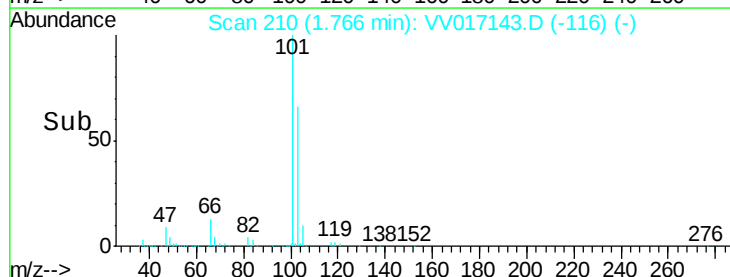
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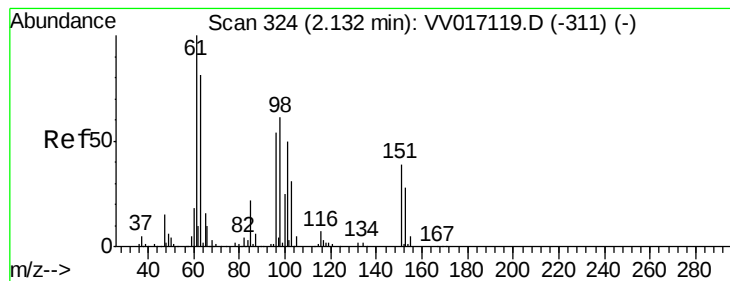
40000

20000

0

Time-->





#10

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

Concen: 5.172 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00560

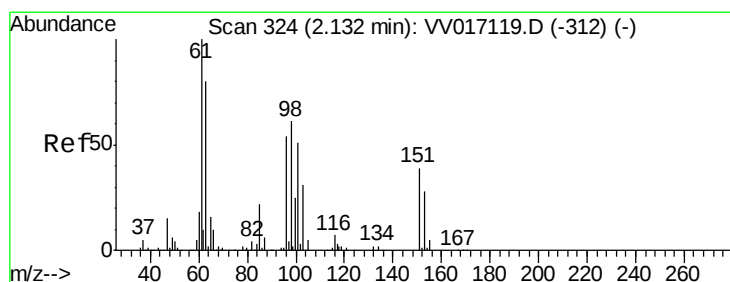
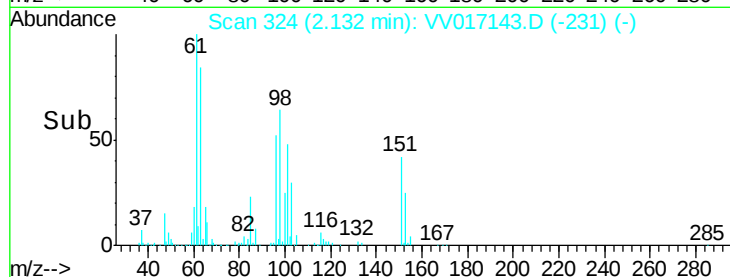
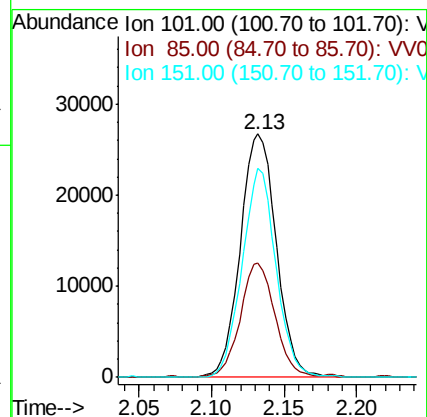
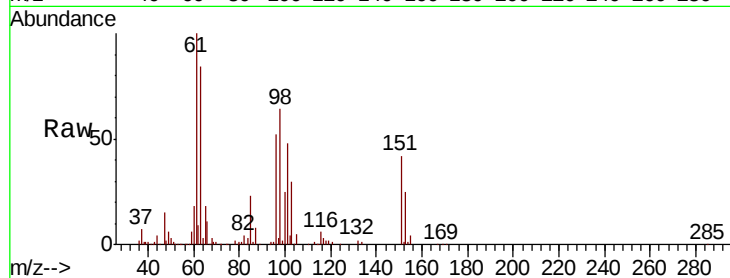
Tot Ion:101 Resp: 46160

Ion Ratio Lower Upper

101 100

85 45.4 35.4 53.2

151 80.8 63.9 95.9



#12

1,1-Dichloroethene

Concen: 5.200 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

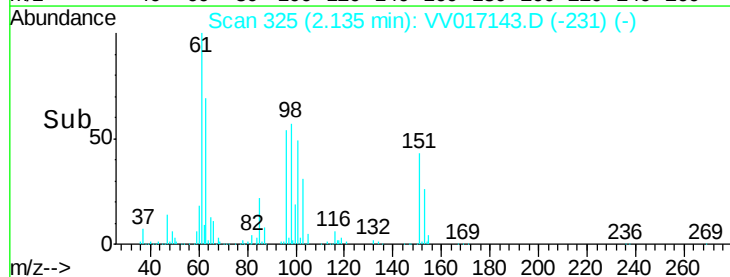
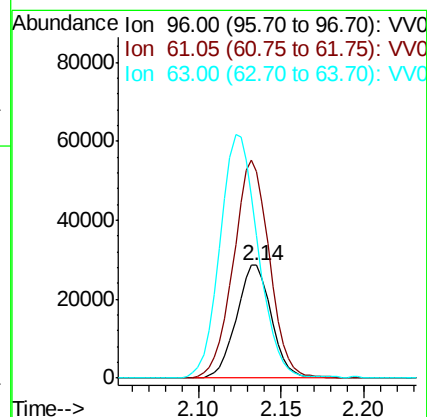
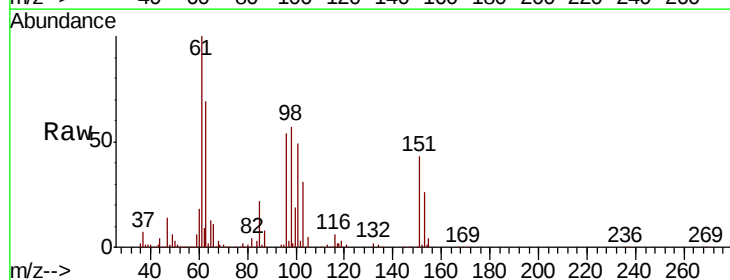
Tgt Ion: 96 Resp: 42052

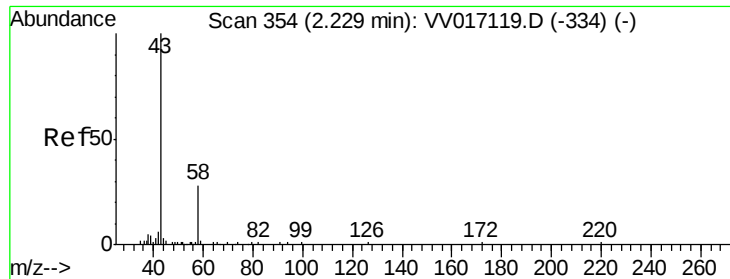
Ion Ratio Lower Upper

96 100

61 184.0 125.0 232.2

63 126.3 109.8 203.8





#13

Acetone

Concen: 45.578 ug/L

RT: 2.24 min Scan# 358

Delta R.T. 0.01 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampleId :

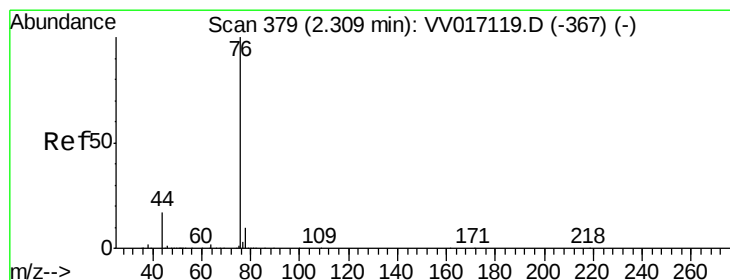
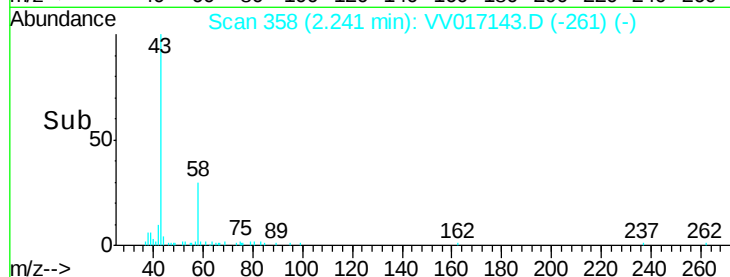
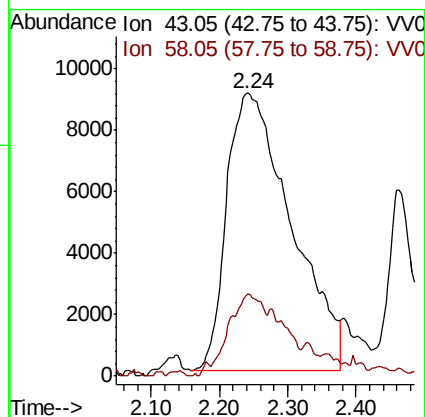
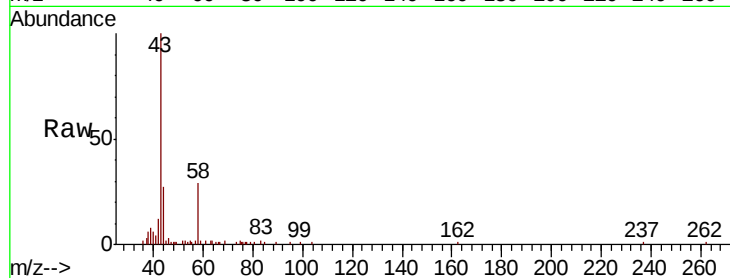
VSTD00560

Tot Ion: 43 Resp: 59383

Ion Ratio Lower Upper

43 100

58 13.3 0.0 58.4



#14

Carbon disulfide

Concen: 4.839 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV017143.D

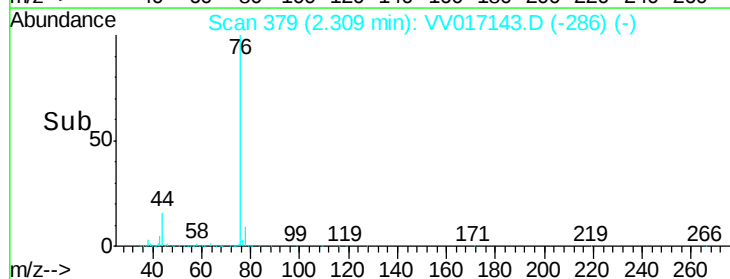
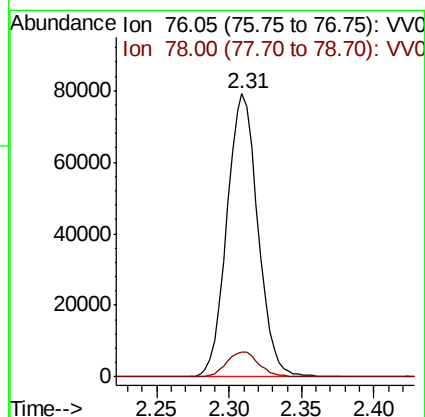
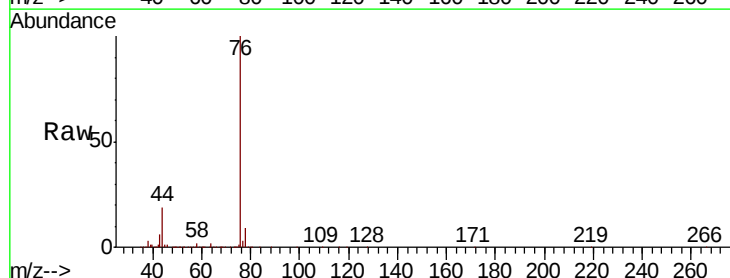
Acq: 25 Jun 2020 21:36

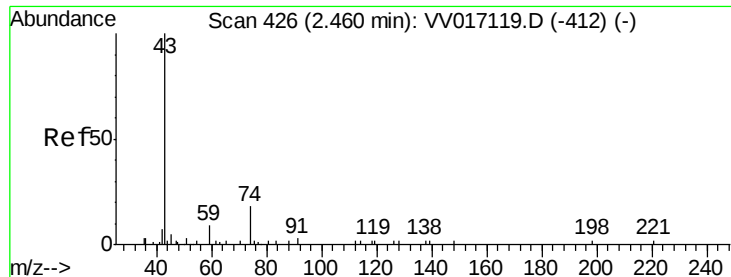
Tgt Ion: 76 Resp: 117240

Ion Ratio Lower Upper

76 100

78 8.9 7.7 11.5

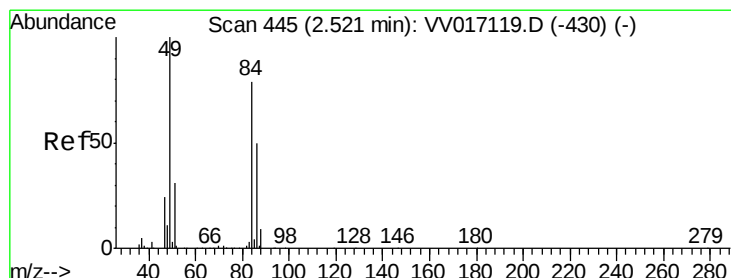
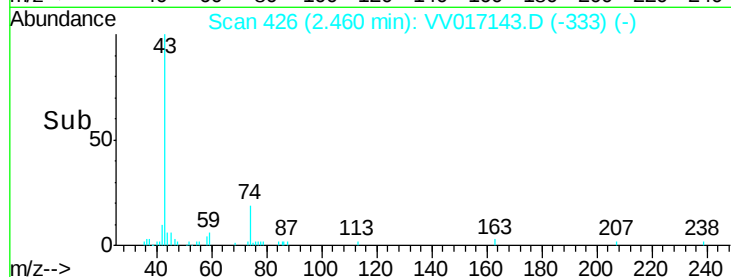
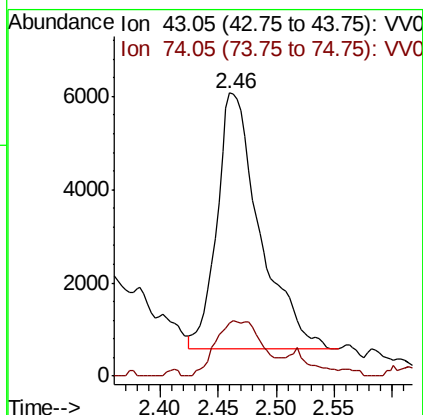
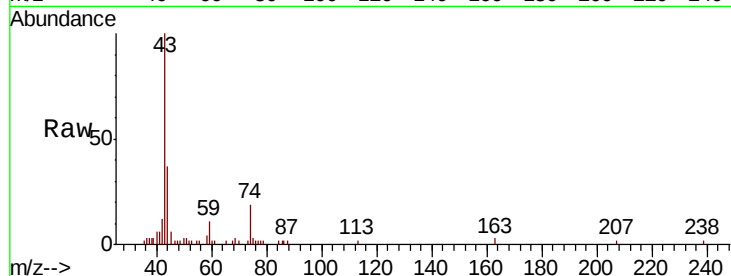




#15  
Methvl Acetate  
Concen: 4.452 ug/L  
RT: 2.46 min Scan# 426  
Delta R.T. -0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

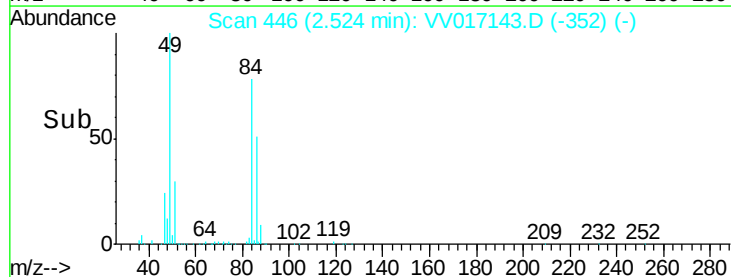
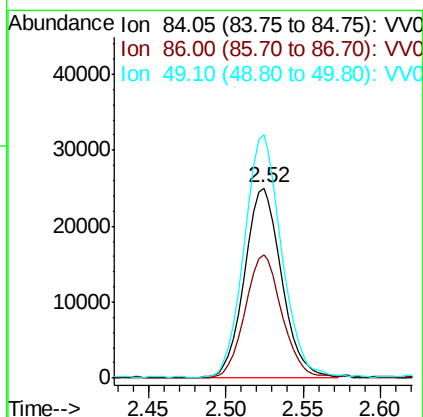
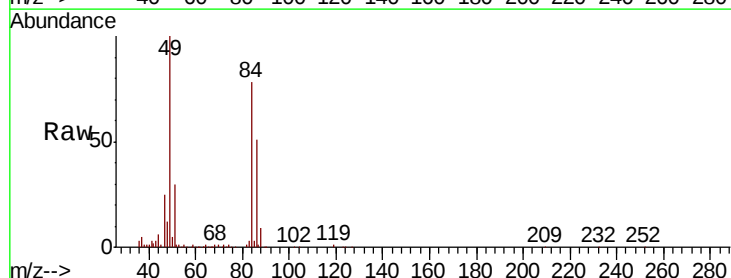
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

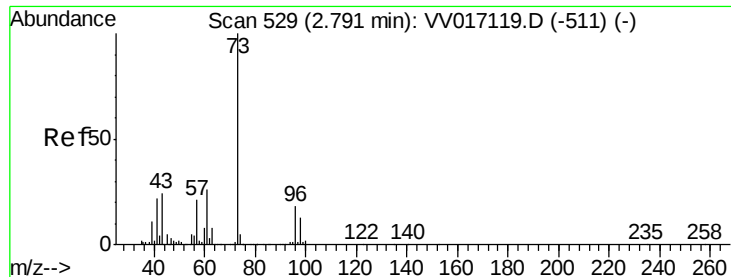
Tot Ion: 43 Resp: 14182  
Ion Ratio Lower Upper  
43 100  
74 23.2 19.1 28.7



#16  
Methylene chloride  
Concen: 4.859 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

Tgt Ion: 84 Resp: 42080  
Ion Ratio Lower Upper  
84 100  
86 64.8 45.8 85.0  
49 128.2 89.6 166.4

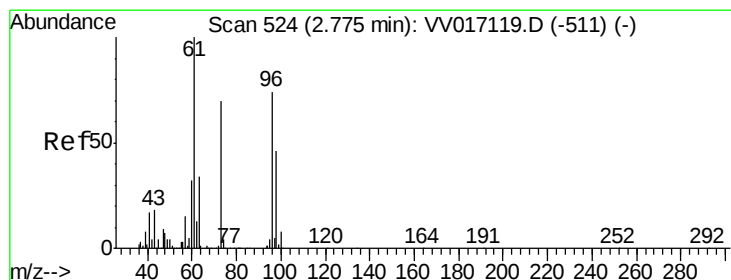
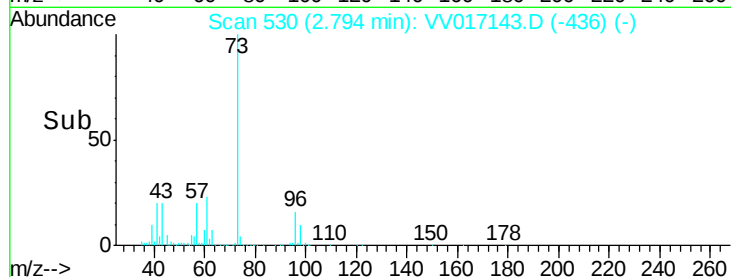
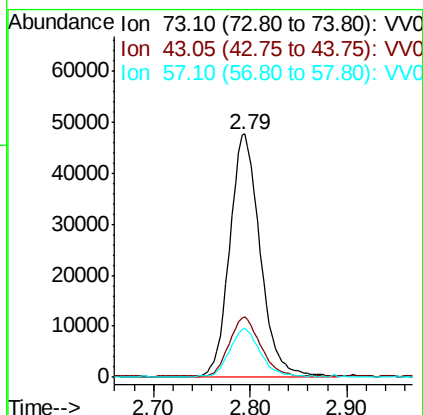
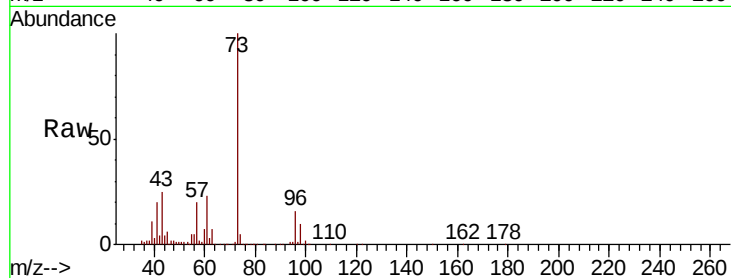




#17  
Methvl tert-butvl Ether  
Concen: 5.174 ug/L  
RT: 2.79 min Scan# 530  
Delta R.T. 0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

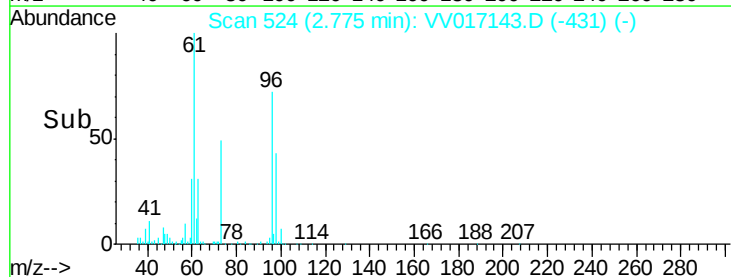
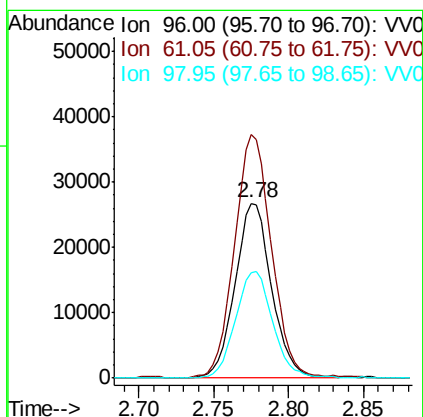
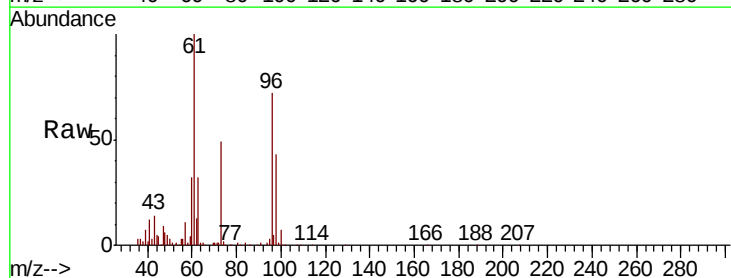
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

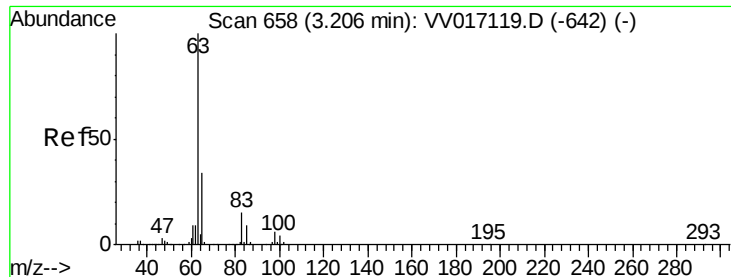
Tot Ion: 73 Resp: 105061  
Ion Ratio Lower Upper  
73 100  
43 24.6 18.6 28.0  
57 20.6 16.4 24.6



#18  
trans-1,2-Dichloroethene  
Concen: 5.312 ug/L  
RT: 2.78 min Scan# 524  
Delta R.T. -0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

Tgt Ion: 96 Resp: 45523  
Ion Ratio Lower Upper  
96 100  
61 139.1 102.3 189.9  
98 60.5 44.7 82.9

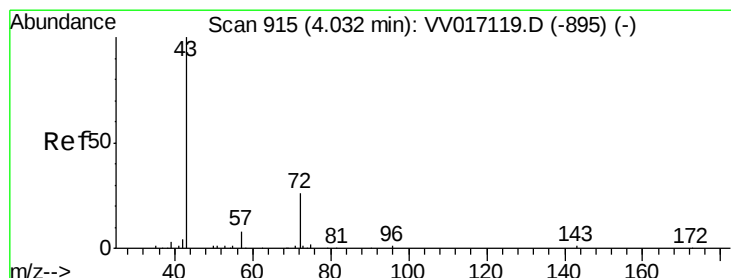
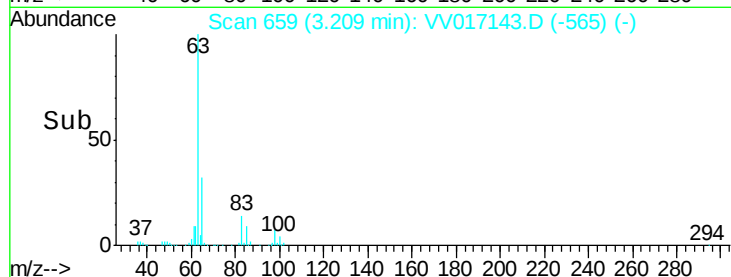
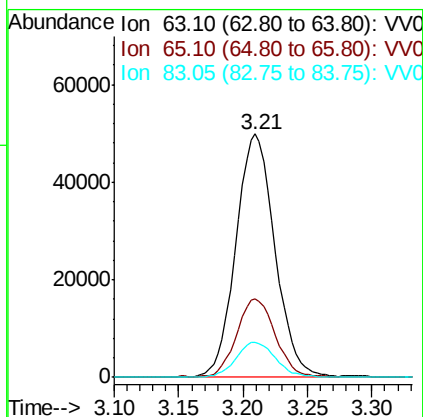
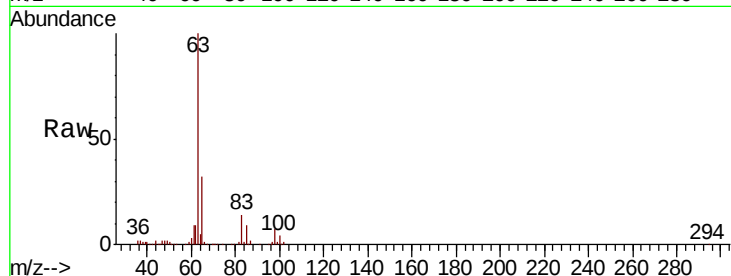




#19  
 1,1-Dichloroethane  
 Concen: 5.459 ug/L  
 RT: 3.21 min Scan# 659  
 Delta R.T. 0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

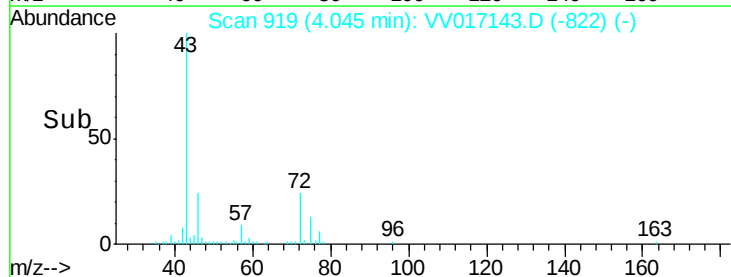
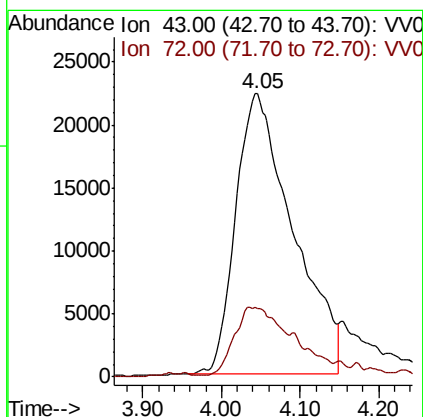
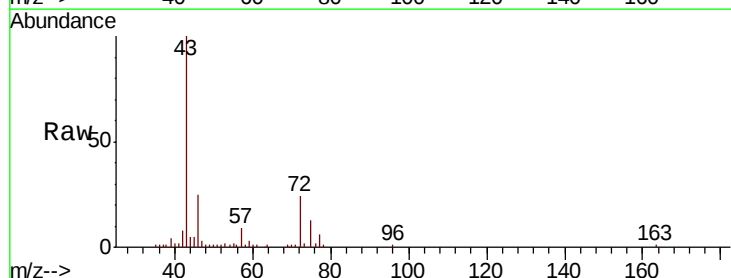
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

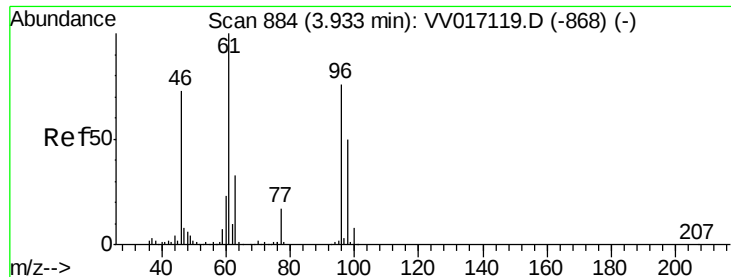
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.3  | 21.8  | 40.4  |
| 83      | 14.5  | 9.7   | 17.9  |



#21  
 2-Butanone  
 Concen: 46.071 ug/L  
 RT: 4.05 min Scan# 919  
 Delta R.T. 0.01 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 7.9   | 12.4  | 37.4# |





#22

cis-1,2-Dichloroethene

Concen: 5.087 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00560

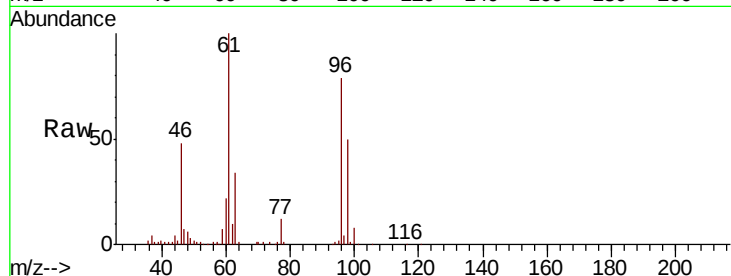
Tot Ion: 96 Resp: 59614

Ion Ratio Lower Upper

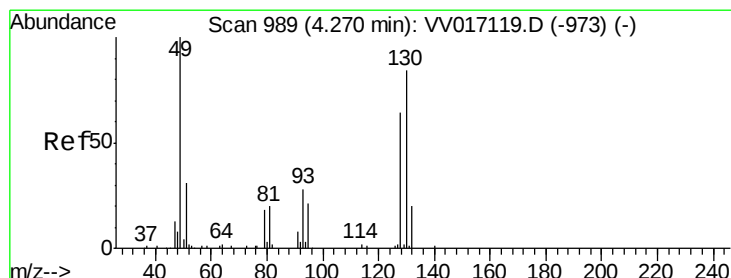
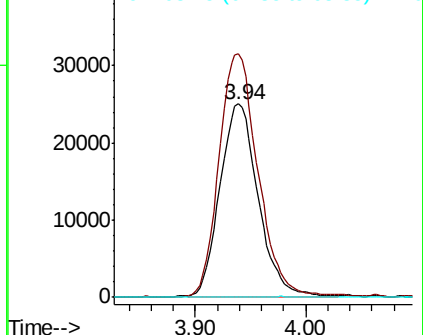
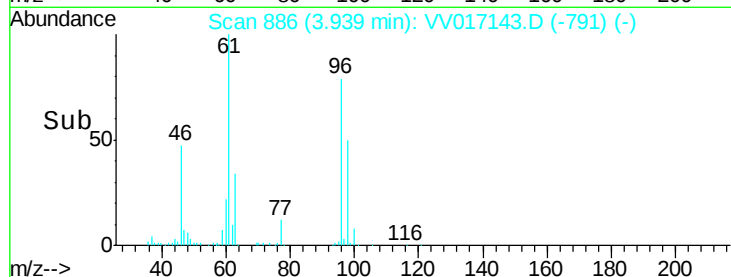
96 100

61 126.1 91.0 169.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV017143.D (-791) (-)



#23

Bromochloromethane

Concen: 5.457 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Tgt Ion: 128 Resp: 27177

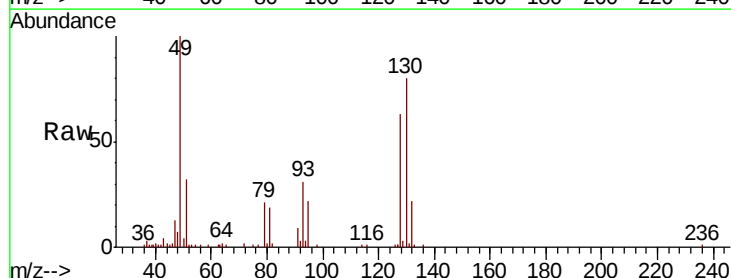
Ion Ratio Lower Upper

128 100

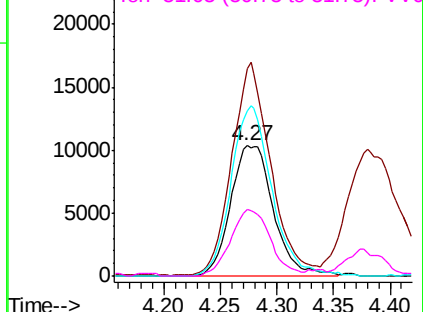
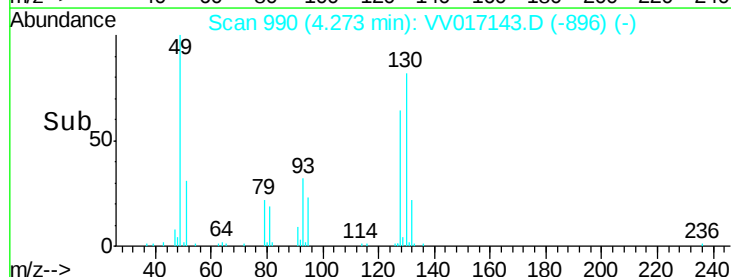
49 159.1 110.8 205.8

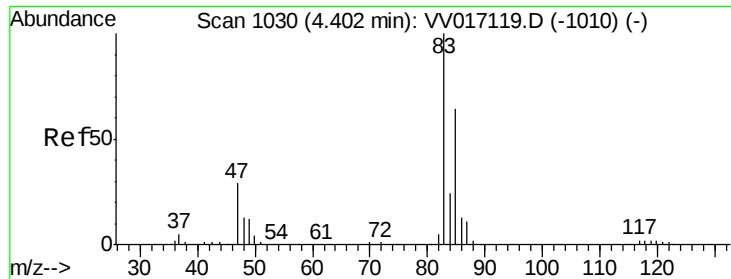
130 127.5 86.0 159.8

51 51.0 39.4 59.2



Abundance Ion 127.90 (127.60 to 128.60): VV017143.D (-896) (-)

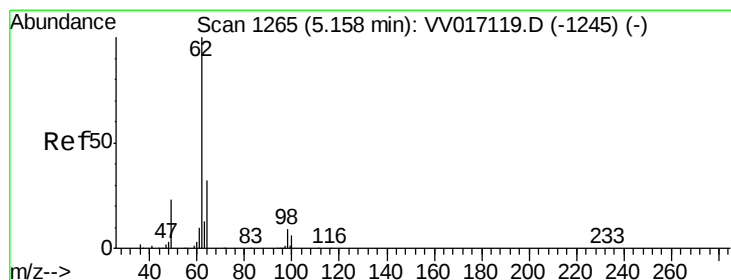
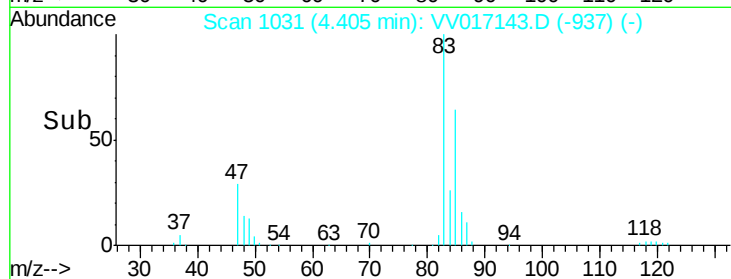
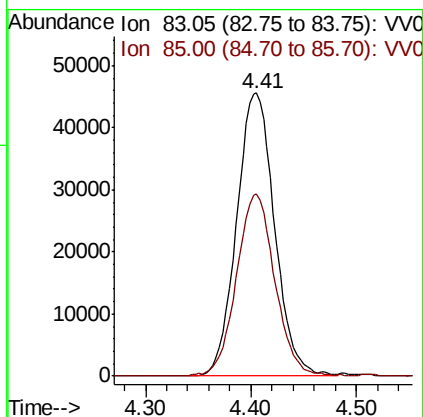
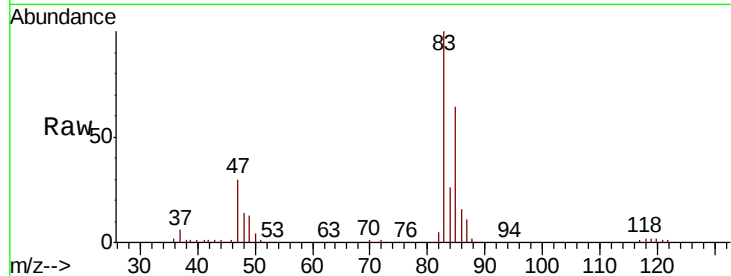




#25  
Chloroform  
Concen: 5.428 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

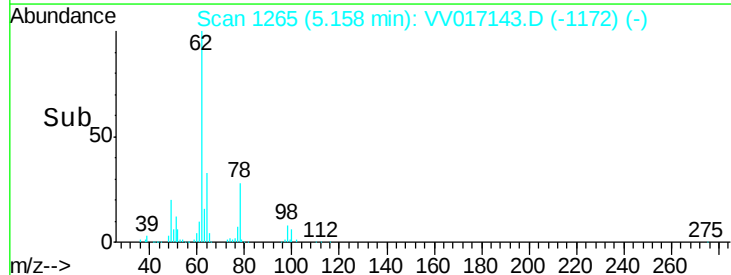
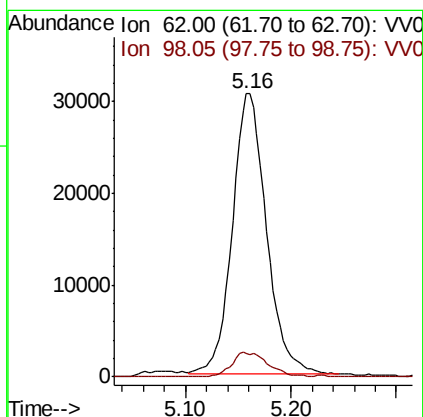
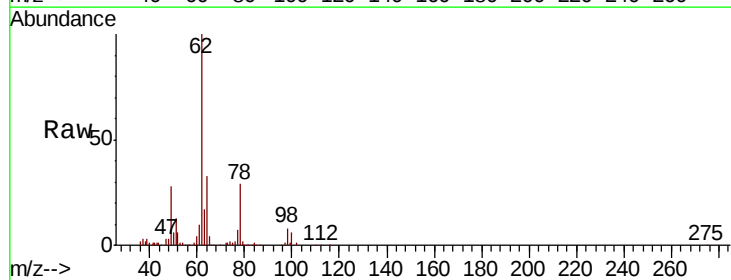
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

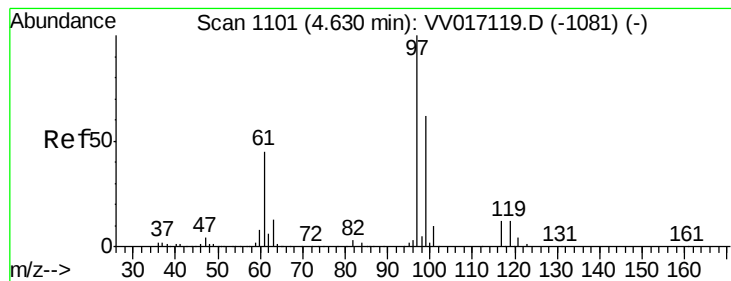
Tot Ion: 83 Resp: 114163  
Ion Ratio Lower Upper  
83 100  
85 64.4 44.2 82.2



#27  
1,2-Dichloroethane  
Concen: 5.229 ug/L  
RT: 5.16 min Scan# 1265  
Delta R.T. -0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

Tgt Ion: 62 Resp: 68322  
Ion Ratio Lower Upper  
62 100  
98 8.3 6.7 10.1





#29

1,1,1-Trichloroethane

Concen: 5.232 ug/L

RT: 4.63 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampled :

VSTD00560

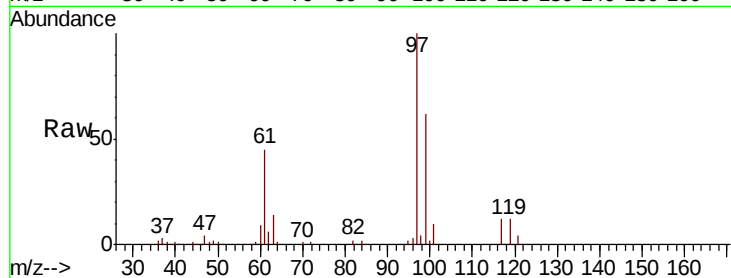
Tot Ion: 97 Resp: 103630

Ion Ratio Lower Upper

97 100

99 64.1 50.3 75.5

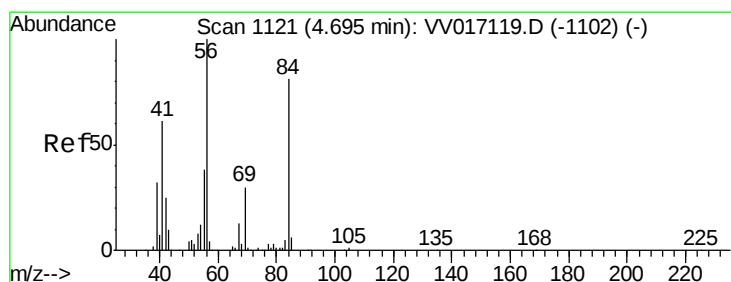
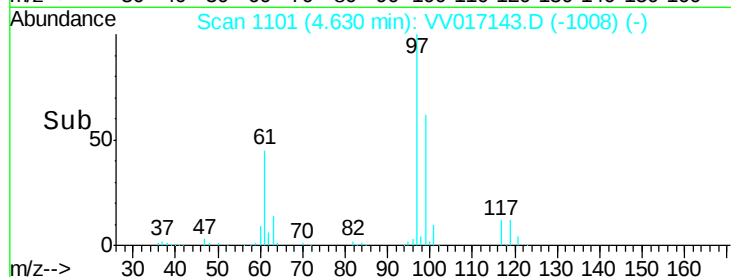
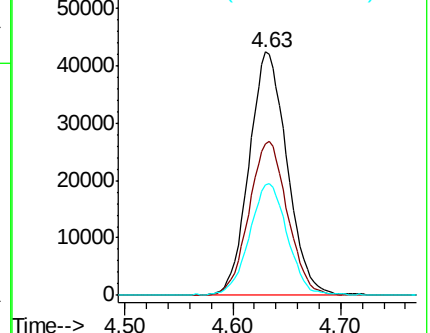
61 45.5 36.0 54.0



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 4.609 ug/L

RT: 4.70 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

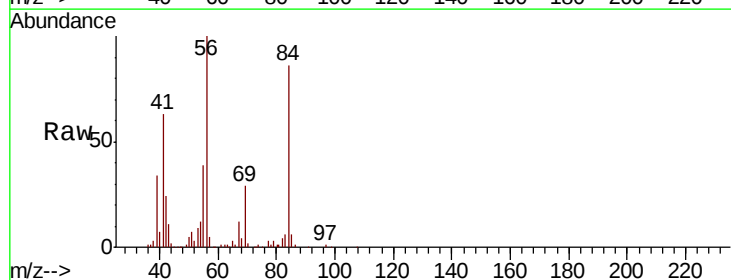
Tgt Ion: 56 Resp: 86882

Ion Ratio Lower Upper

56 100

69 30.5 24.4 36.6

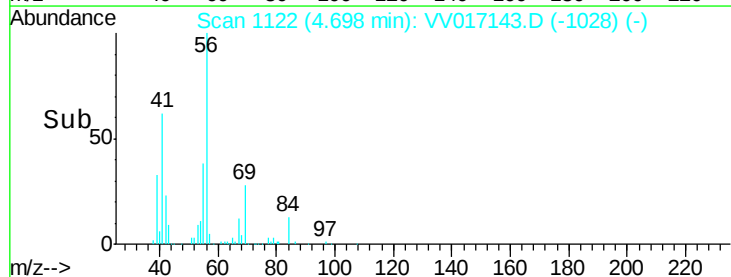
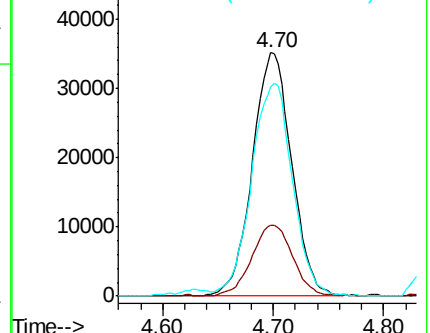
84 90.7 69.9 104.9

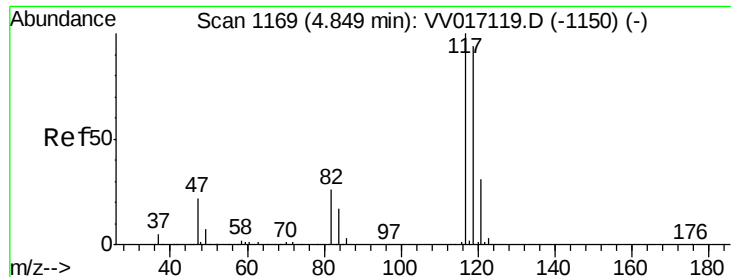


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0

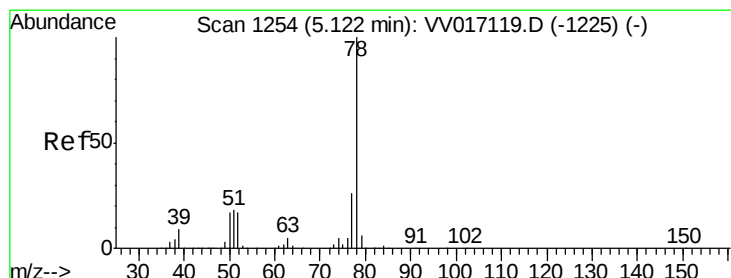
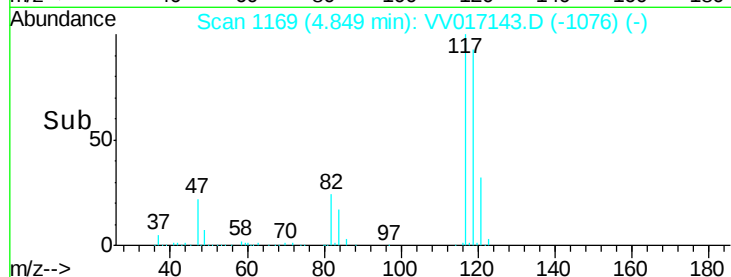
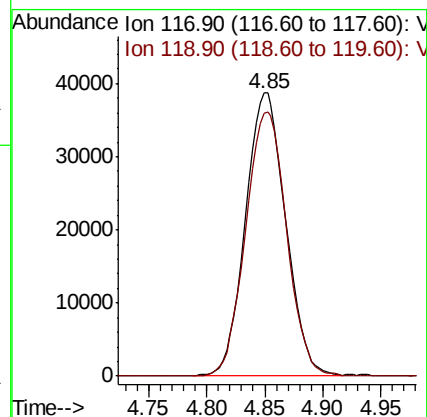
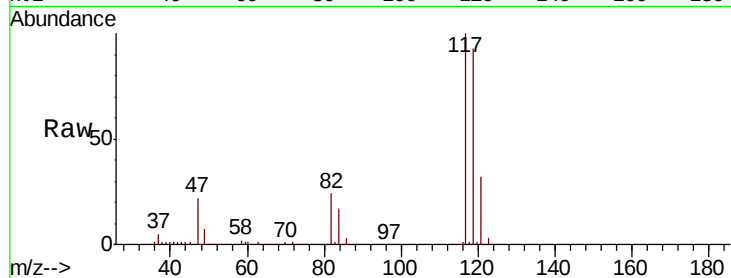




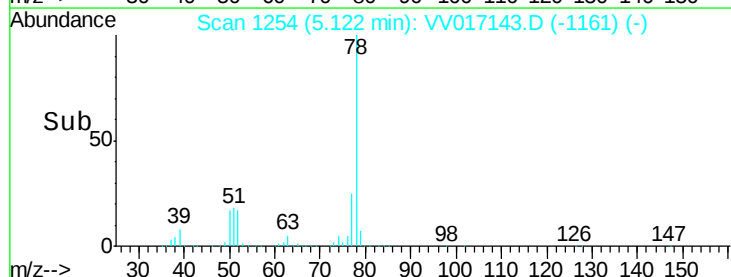
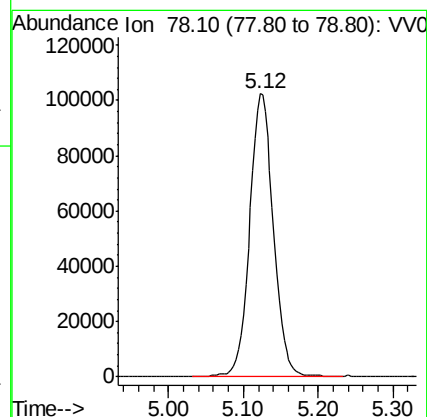
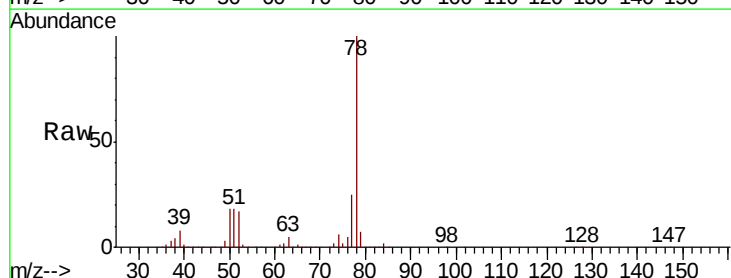
#31  
Carbon tetrachloride  
Concen: 5.232 ug/L  
RT: 4.85 min Scan# 1169  
Delta R.T. -0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

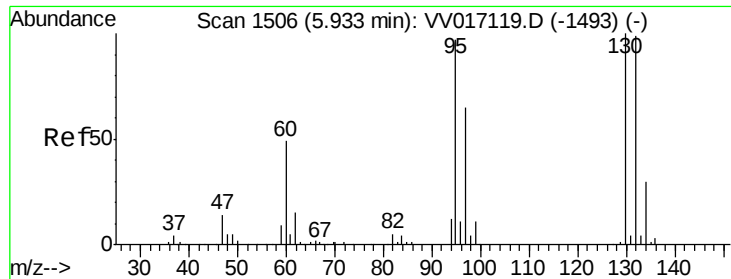
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

Tot Ion:117 Resp: 93510  
Ion Ratio Lower Upper  
117 100  
119 95.2 77.8 116.8



#33  
Benzene  
Concen: 5.215 ug/L  
RT: 5.12 min Scan# 1254  
Delta R.T. -0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36  
Tgt Ion: 78 Resp: 225795

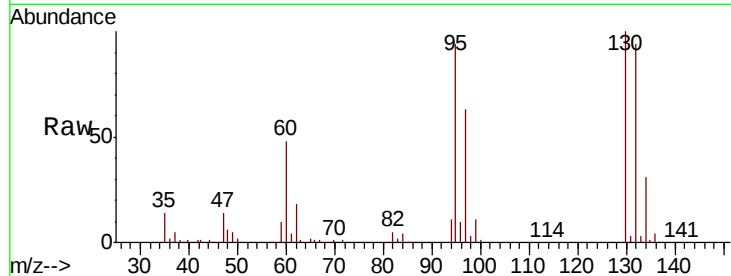




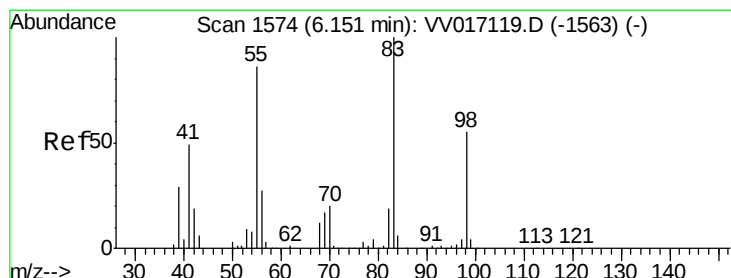
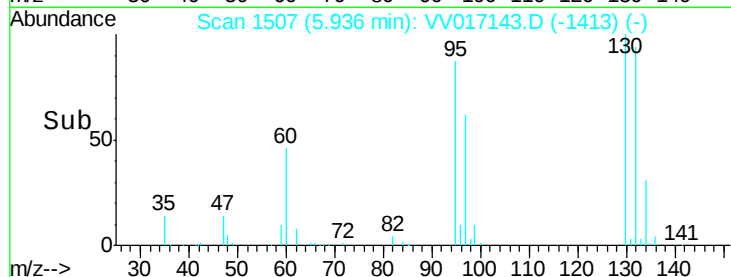
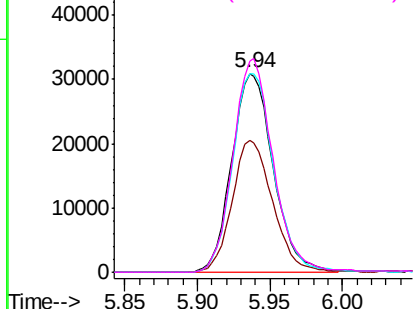
#34  
 Trichloroethene  
 Concen: 4.852 ug/L  
 RT: 5.94 min Scan# 1507  
 Delta R.T. 0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

Tot Ion: 95 Resp: 61515  
 Ion Ratio Lower Upper  
 95 100  
 97 66.6 45.3 84.1  
 132 99.9 68.8 127.8  
 130 106.4 70.2 130.4

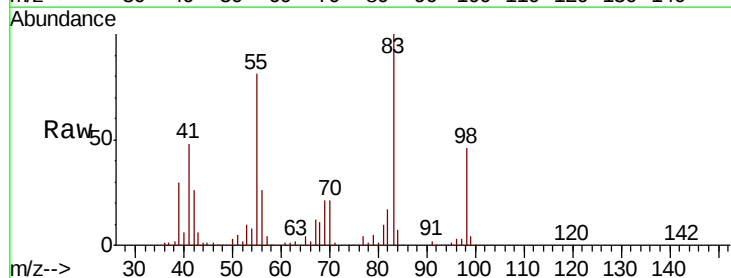


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): VV0  
 Ion 129.95 (129.65 to 130.65): VV0

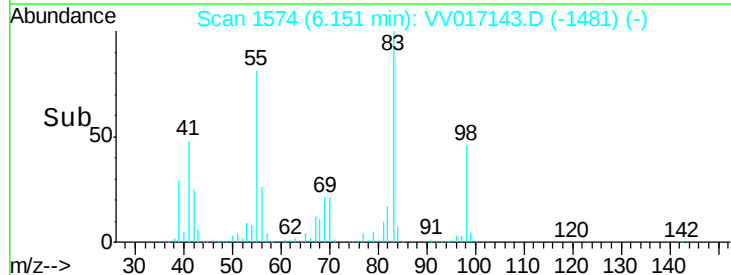
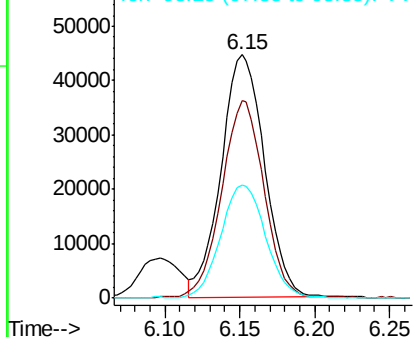


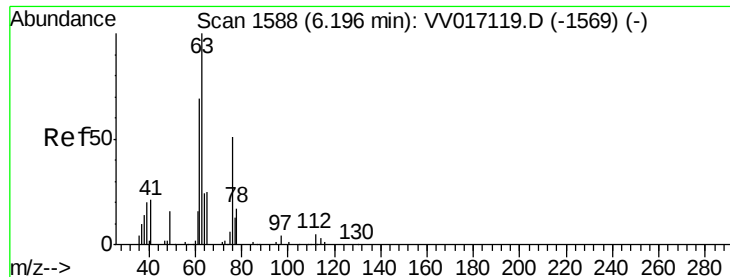
#35  
 Methylcyclohexane  
 Concen: 4.582 ug/L  
 RT: 6.15 min Scan# 1574  
 Delta R.T. -0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

Tgt Ion: 83 Resp: 90306  
 Ion Ratio Lower Upper  
 83 100  
 55 78.8 63.6 95.4  
 98 48.3 38.8 58.2



Abundance Ion 83.15 (82.85 to 83.85): VV0  
 Ion 55.10 (54.80 to 55.80): VV0  
 Ion 98.15 (97.85 to 98.85): VV0

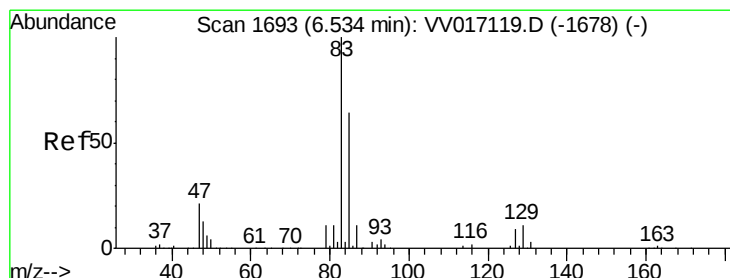
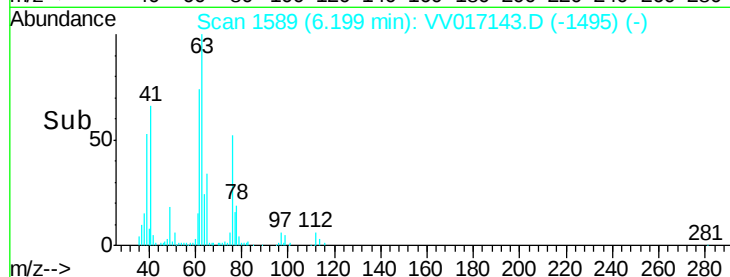
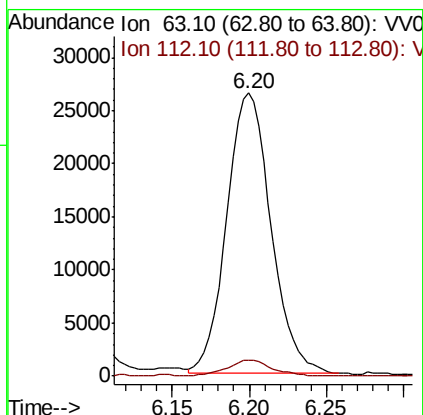
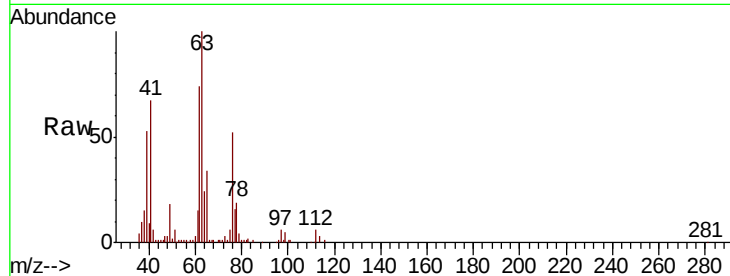




#37  
 1,2-Dichloropropane  
 Concen: 4.901 ug/L  
 RT: 6.20 min Scan# 1589  
 Delta R.T. 0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

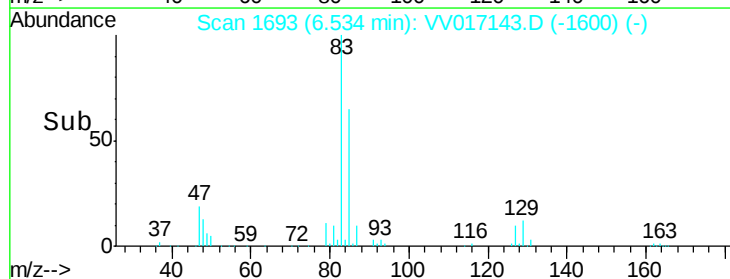
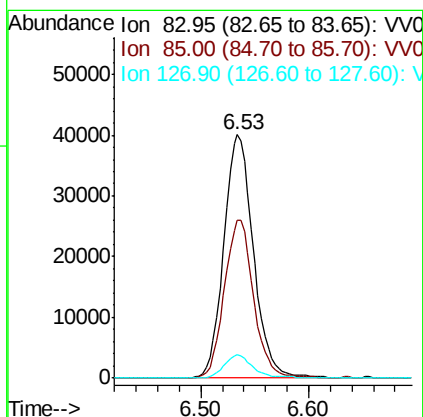
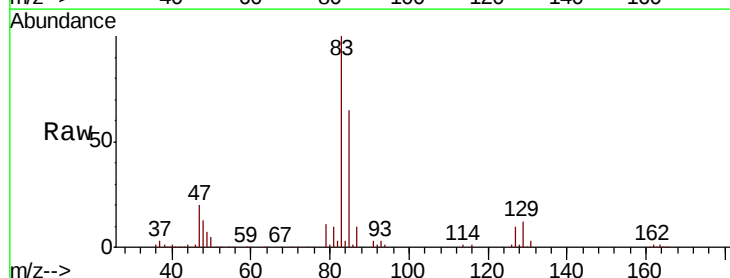
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

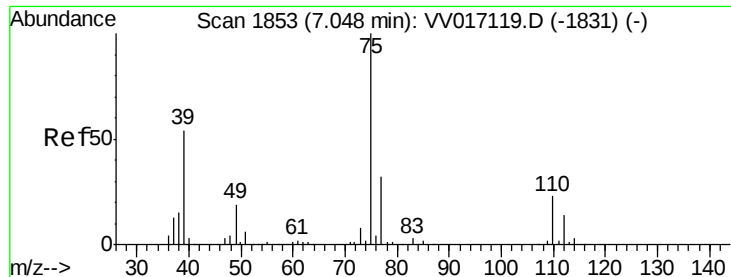
Tot Ion: 63 Resp: 52532  
 Ion Ratio Lower Upper  
 63 100  
 112 5.8 4.4 6.6



#38  
 Bromodichloromethane  
 Concen: 5.260 ug/L  
 RT: 6.53 min Scan# 1693  
 Delta R.T. -0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

Tgt Ion: 83 Resp: 76575  
 Ion Ratio Lower Upper  
 83 100  
 85 64.9 43.4 80.6  
 127 9.6 7.9 11.9

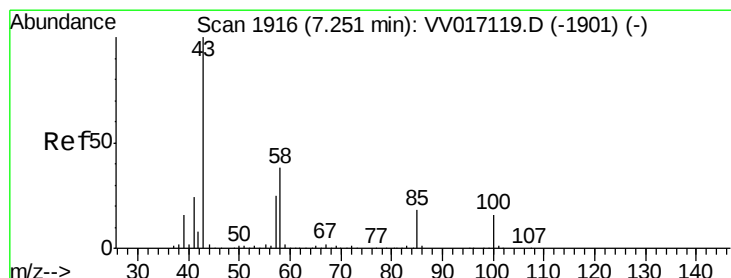
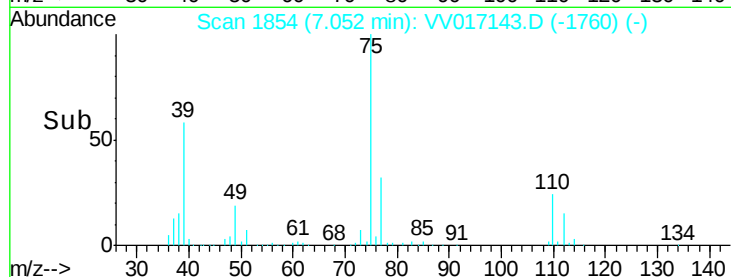
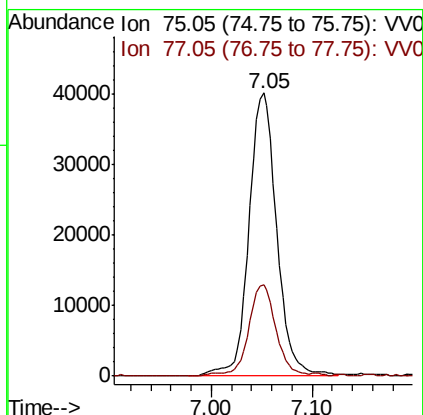
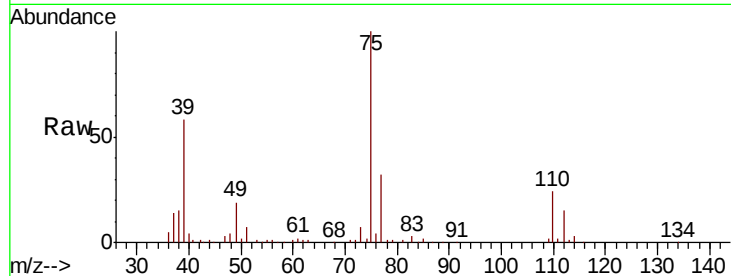




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.801 ug/L  
 RT: 7.05 min Scan# 1854  
 Delta R.T. 0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

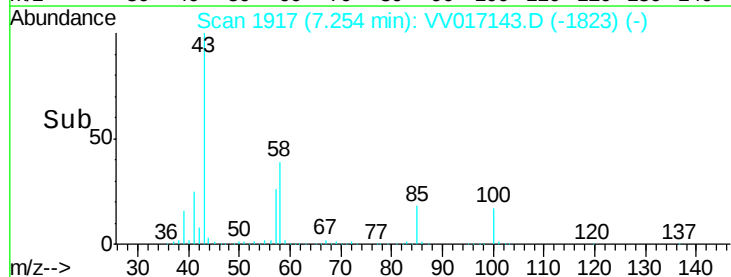
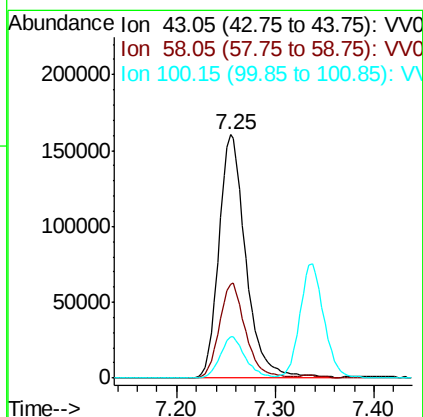
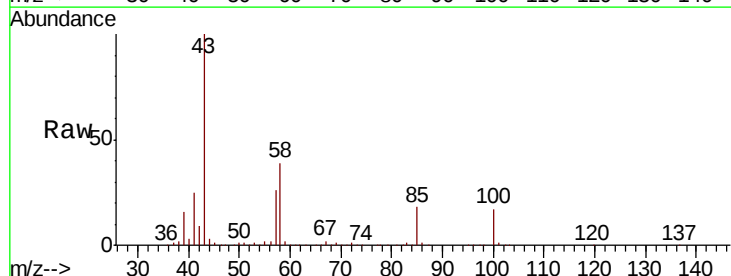
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

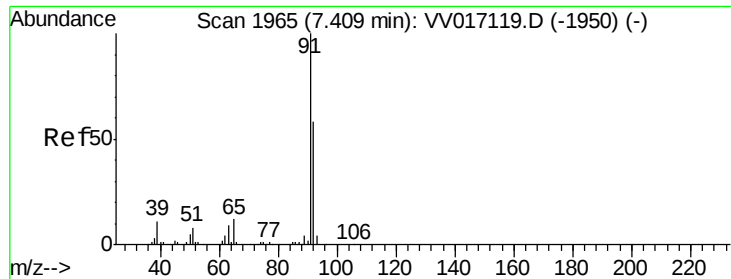
Tot Ion: 75 Resp: 76447  
 Ion Ratio Lower Upper  
 75 100  
 77 32.4 22.3 41.5



#40  
 4-Methyl-2-pentanone  
 Concen: 49.814 ug/L  
 RT: 7.25 min Scan# 1917  
 Delta R.T. 0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

Tgt Ion: 43 Resp: 308278  
 Ion Ratio Lower Upper  
 43 100  
 58 37.8 30.4 45.6  
 100 15.9 12.7 19.1





#42

Toluene

Concen: 4.924 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampleId :

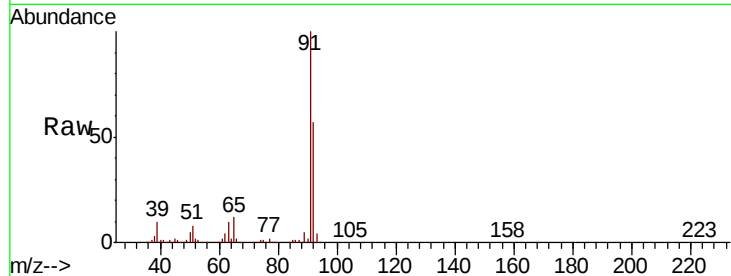
VSTD00560

Tot Ion: 91 Resp: 247854

Ion Ratio Lower Upper

91 100

92 57.0 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV017119.D (-1950) (-)

Ion 92.15 (91.85 to 92.85): VV017119.D (-1950) (-)

7.41

150000

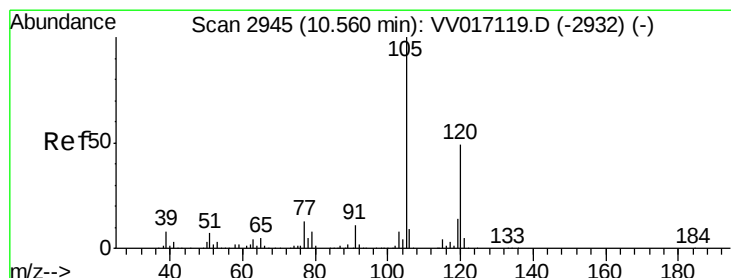
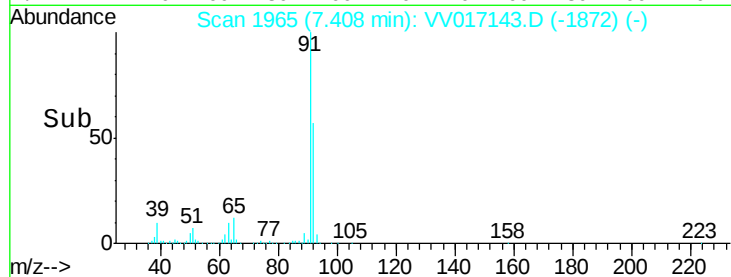
100000

50000

0

7.35 7.40 7.45 7.50

Time-->



#43

1,3,5-Trimethylbenzene

Concen: 5.027 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VV017143.D

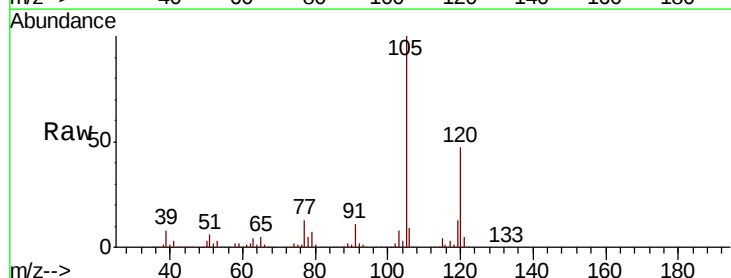
Acq: 25 Jun 2020 21:36

Tgt Ion:105 Resp: 226308

Ion Ratio Lower Upper

105 100

120 48.1 38.6 57.8



Abundance Ion 105.00 (104.70 to 105.70): VV017119.D (-2932) (-)

Ion 120.00 (119.70 to 120.70): VV017119.D (-2932) (-)

10.56

150000

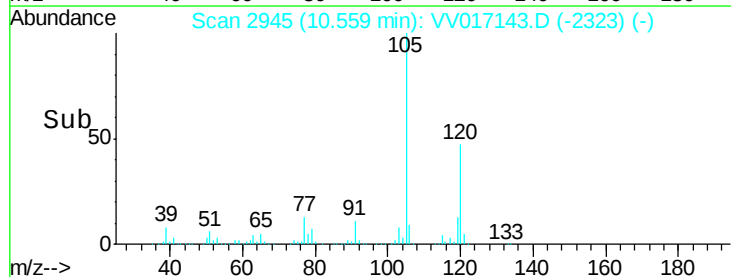
100000

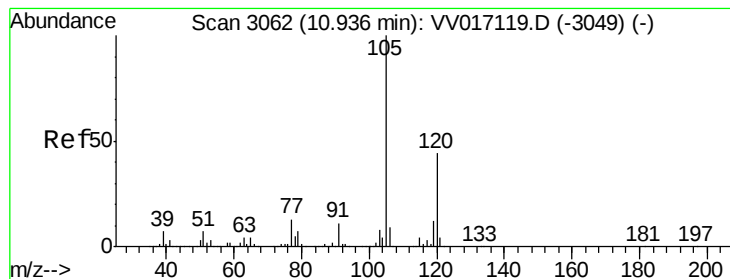
50000

0

10.50 10.60

Time-->





#44

1,2,4-Trimethylbenzene

Concen: 5.161 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampleId :

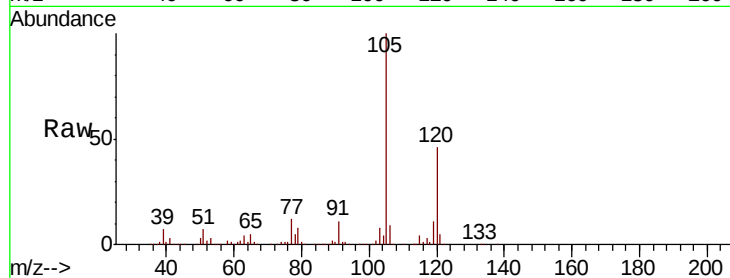
VSTD00560

Tot Ion:105 Resp: 236557

Ion Ratio Lower Upper

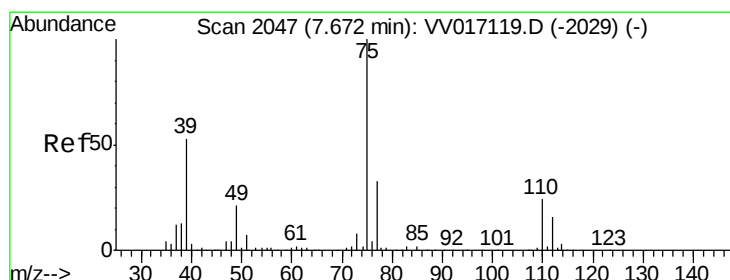
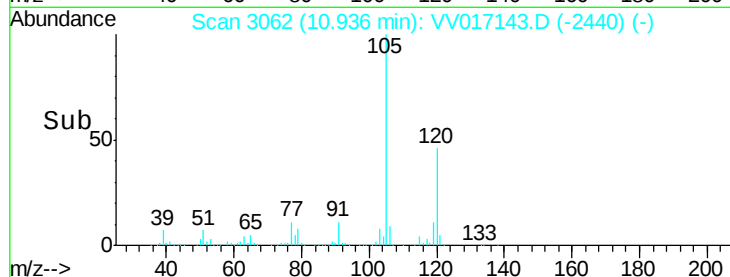
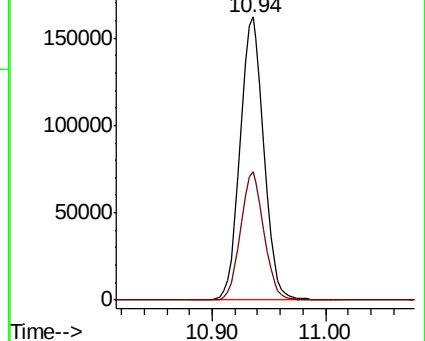
105 100

120 44.6 35.8 53.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#46

trans-1,3-Dichloropropene

Concen: 4.850 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. -0.00 min

Lab File: VV017143.D

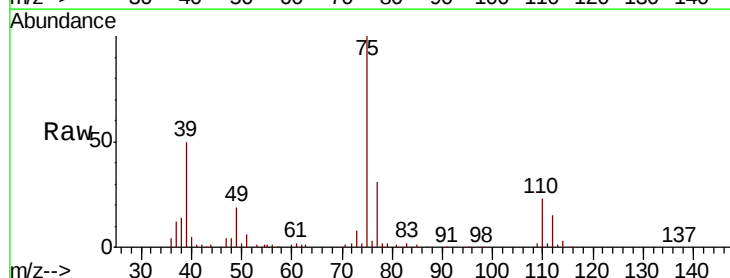
Acq: 25 Jun 2020 21:36

Tgt Ion: 75 Resp: 66802

Ion Ratio Lower Upper

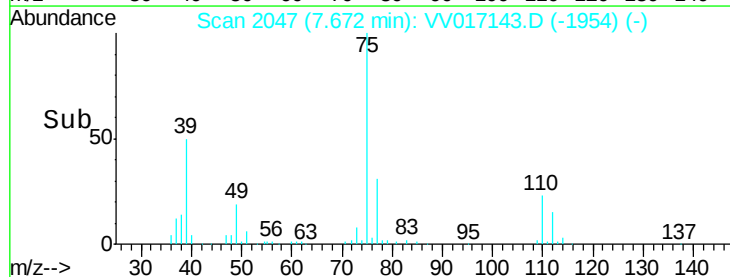
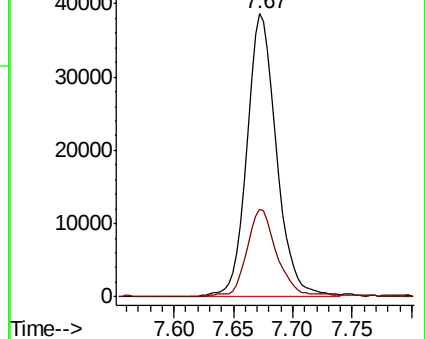
75 100

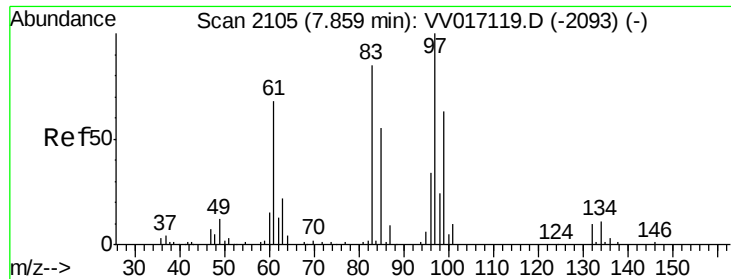
77 31.0 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

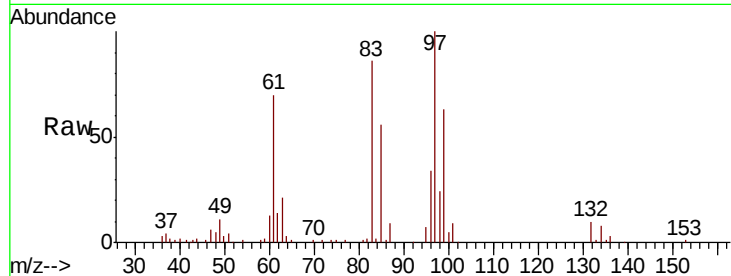




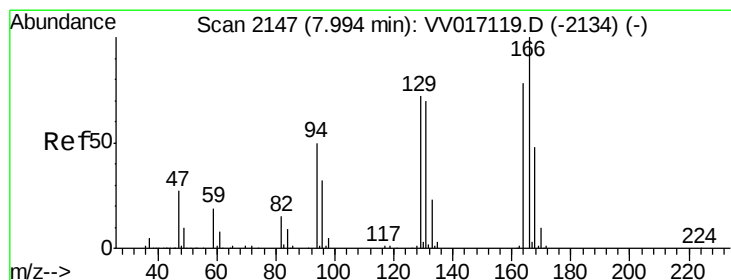
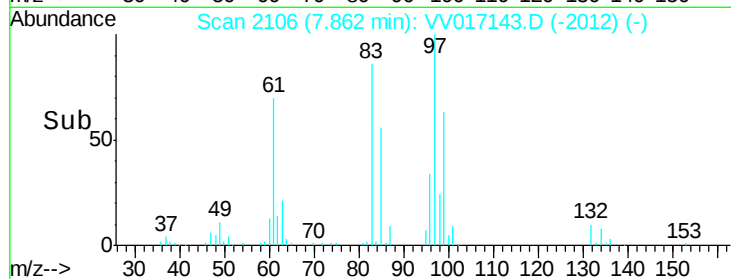
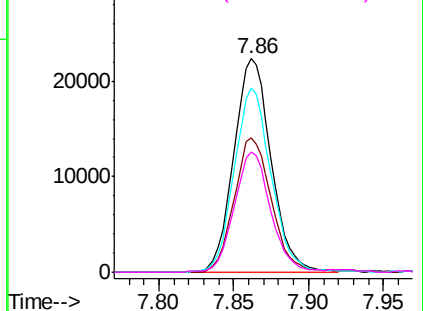
#47  
1,1,2-Trichloroethane  
Concen: 5.111 ug/L  
RT: 7.86 min Scan# 2106  
Delta R.T. 0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 38855 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.2  | 43.6  | 81.0  |
| 83       | 86.3  | 57.4  | 106.6 |
| 85       | 56.1  | 38.8  | 72.0  |

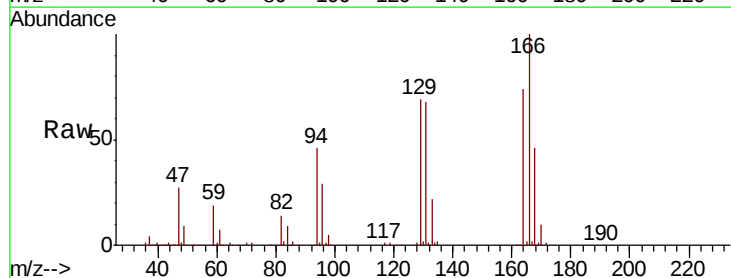


Abundance Ion 96.95 (96.65 to 97.65): VV017143.D (-2093) (-)  
Ion 99.05 (98.75 to 99.75): VV017143.D (-2093) (-)  
Ion 82.95 (82.65 to 83.65): VV017143.D (-2093) (-)  
Ion 85.00 (84.70 to 85.70): VV017143.D (-2093) (-)

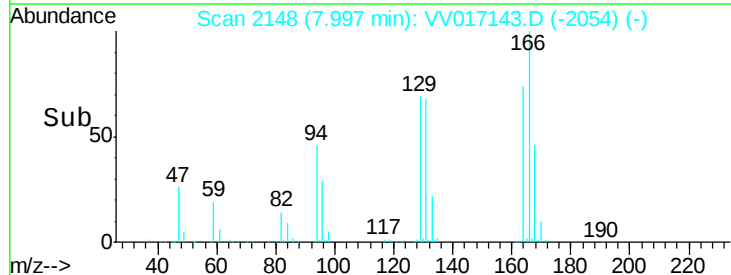
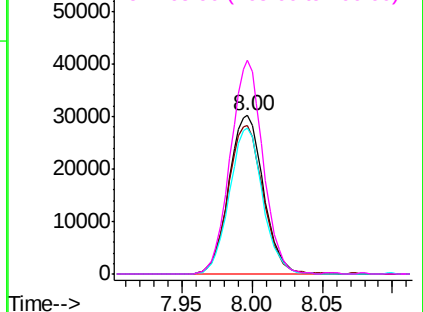


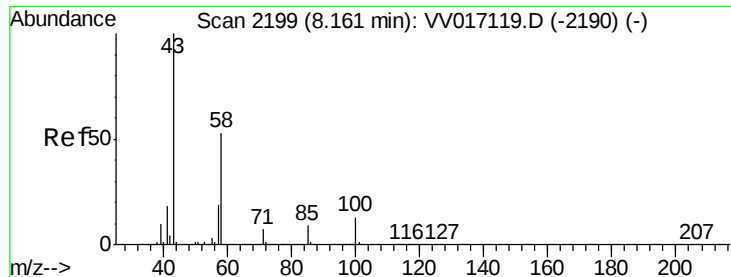
#49  
Tetrachloroethene  
Concen: 5.061 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. 0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 51643 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 93.3  | 65.2  | 121.0 |
| 131      | 92.1  | 64.1  | 119.1 |
| 166      | 134.7 | 90.2  | 167.4 |



Abundance Ion 163.90 (163.60 to 164.60): VV017143.D (-2054) (-)  
Ion 128.95 (128.65 to 129.65): VV017143.D (-2054) (-)  
Ion 130.95 (130.65 to 131.65): VV017143.D (-2054) (-)  
Ion 165.90 (165.60 to 166.60): VV017143.D (-2054) (-)

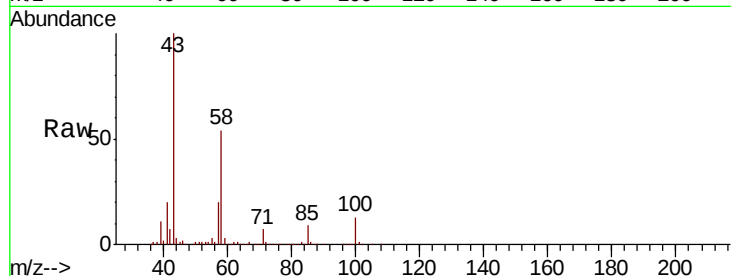




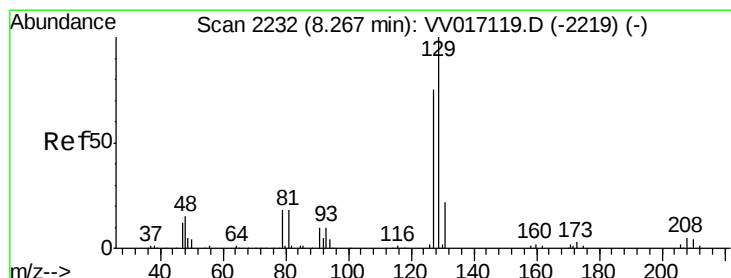
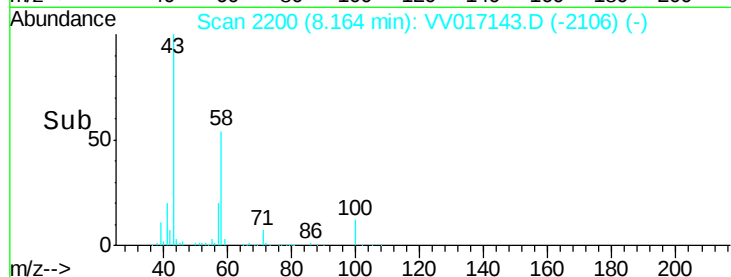
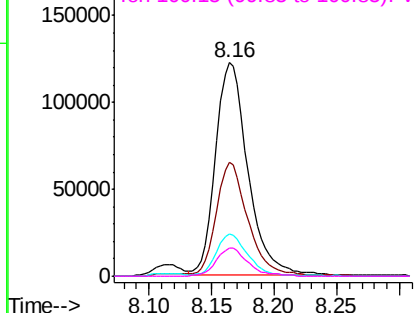
#50  
2-Hexanone  
Concen: 49.796 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. 0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 219307 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 52.5  | 41.6  | 62.4   |
| 57       | 19.5  | 15.4  | 23.0   |
| 100      | 12.6  | 10.1  | 15.1   |

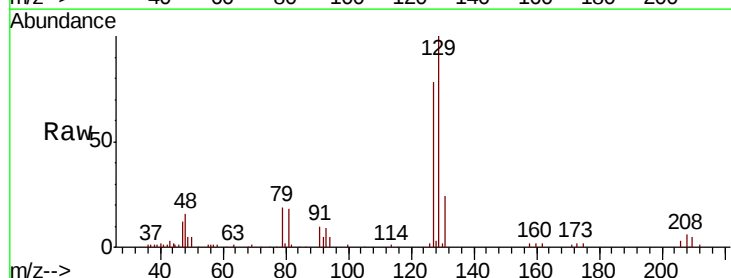


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

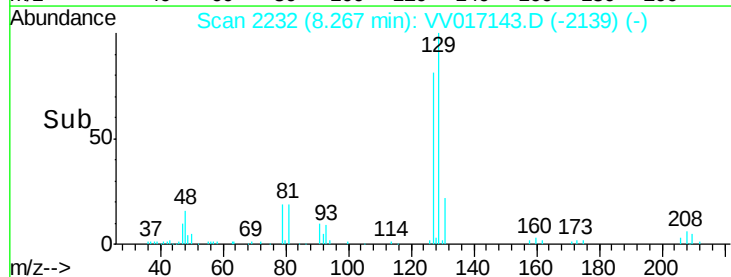
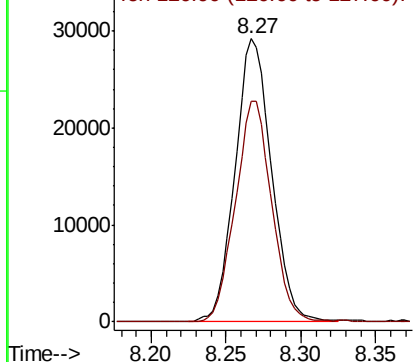


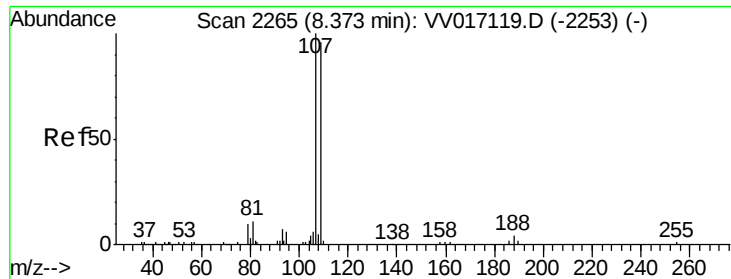
#51  
Dibromochloromethane  
Concen: 5.383 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 49604 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 78.2  | 54.1  | 100.5 |



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





#52

1,2-Dibromoethane

Concen: 4.985 ug/L

RT: 8.37 min Scan# 2265

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampled :

VSTD00560

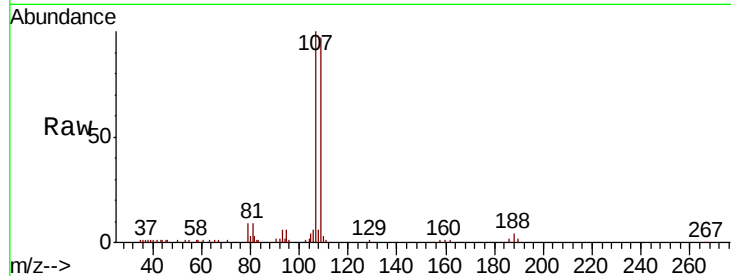
Tot Ion:107 Resp: 35939

Ion Ratio Lower Upper

107 100

109 97.4 69.4 128.8

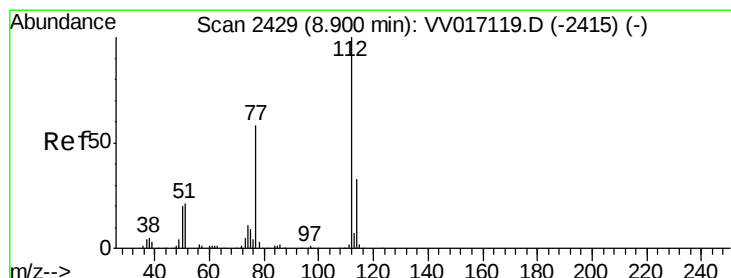
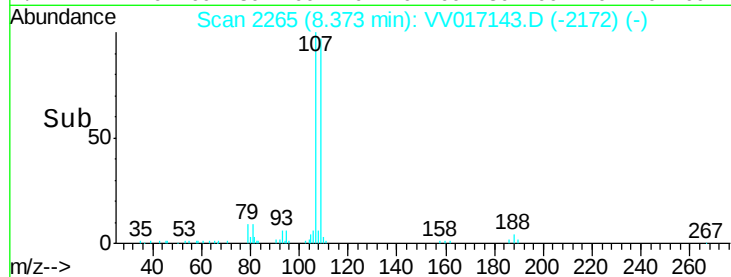
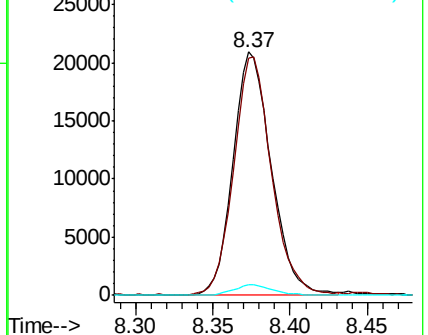
188 4.5 3.9 5.9



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#53

Chlorobenzene

Concen: 5.120 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

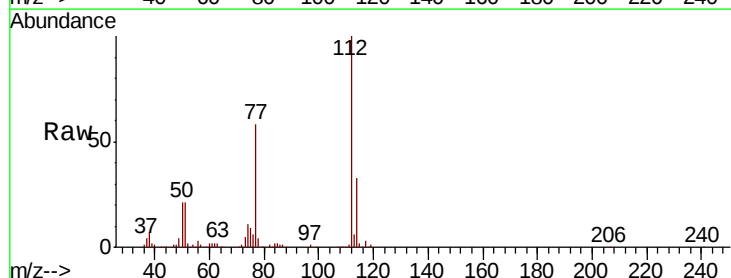
Tgt Ion:112 Resp: 160676

Ion Ratio Lower Upper

112 100

114 33.0 22.0 41.0

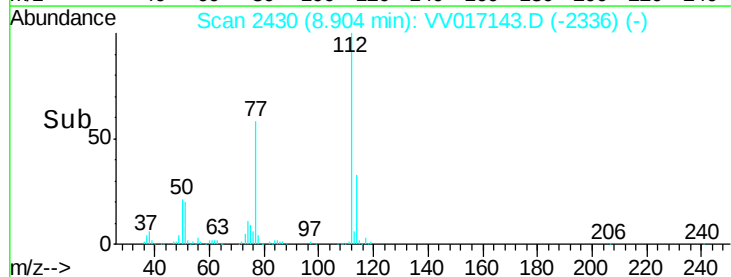
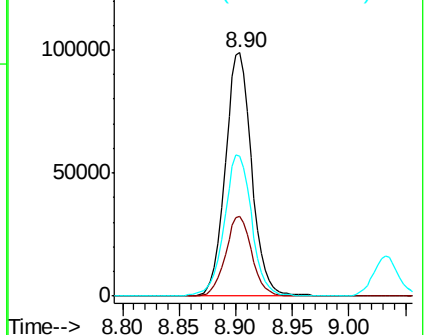
77 57.6 46.0 69.0

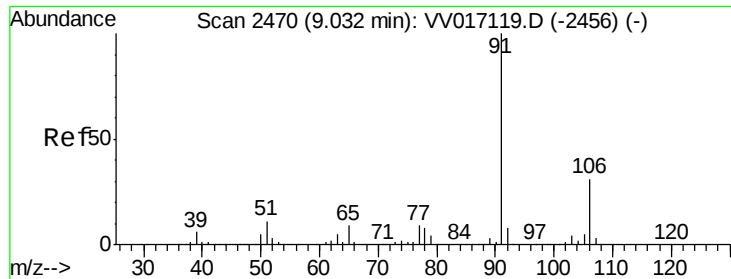


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#54

Ethylbenzene

Concen: 5.063 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampleId :

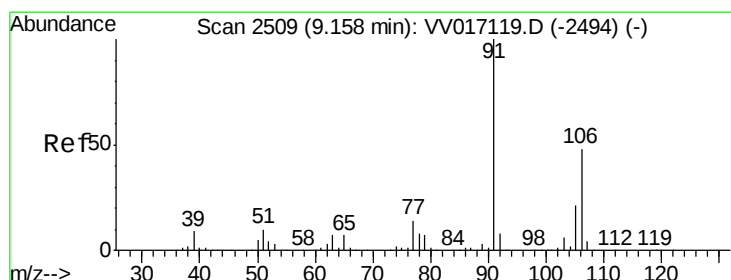
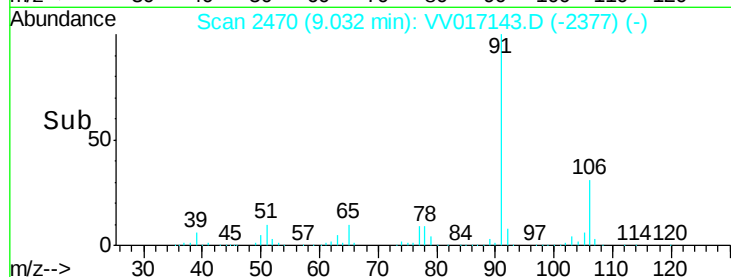
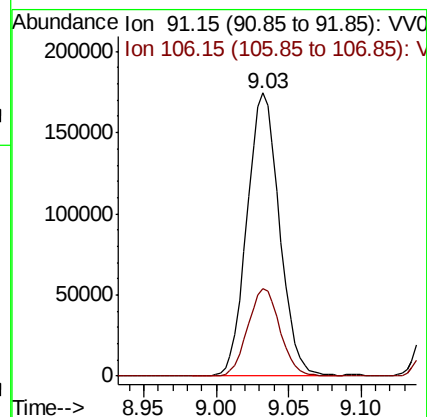
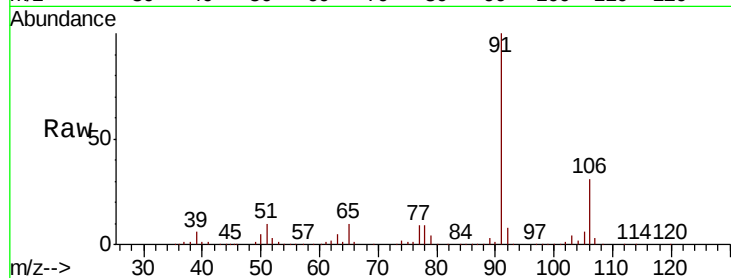
VSTD00560

Tot Ion: 91 Resp: 272028

Ion Ratio Lower Upper

91 100

106 30.8 21.1 39.1



#55

m,p-xylene

Concen: 4.866 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV017143.D

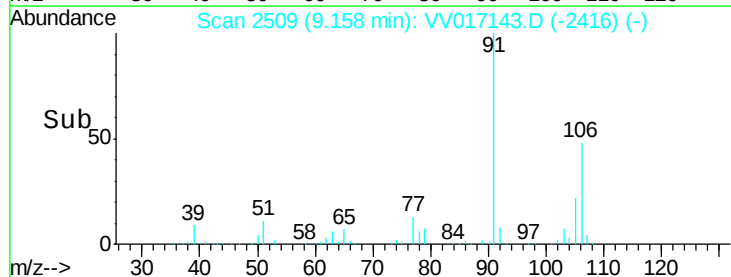
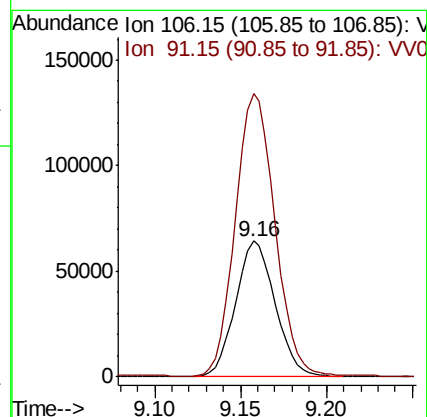
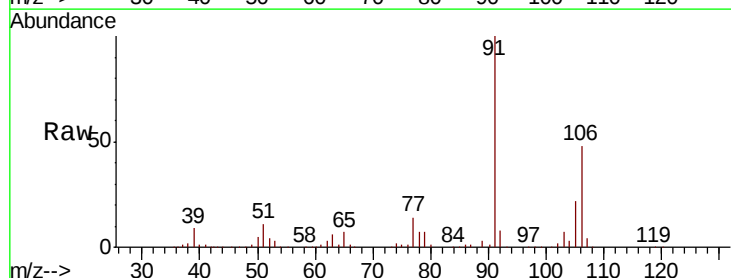
Acq: 25 Jun 2020 21:36

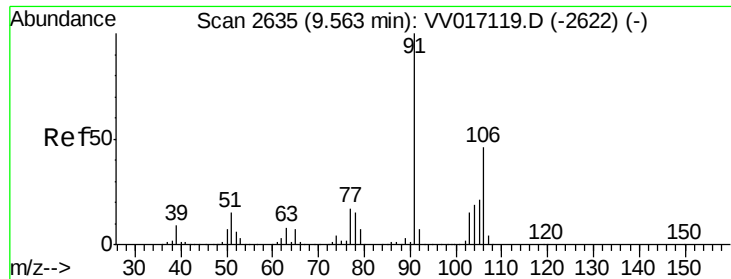
Tgt Ion: 106 Resp: 102542

Ion Ratio Lower Upper

106 100

91 208.3 142.7 264.9

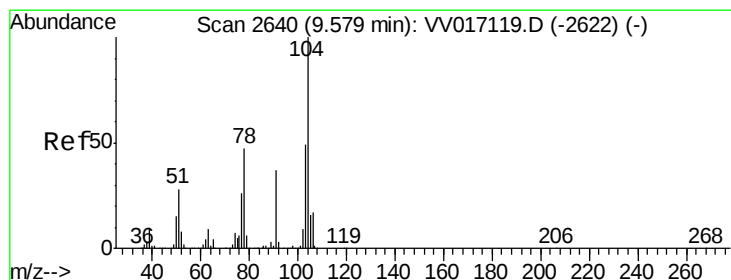
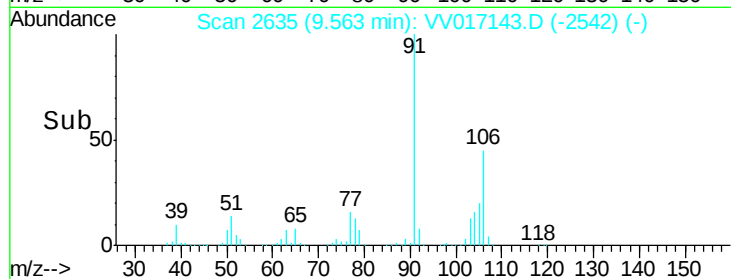
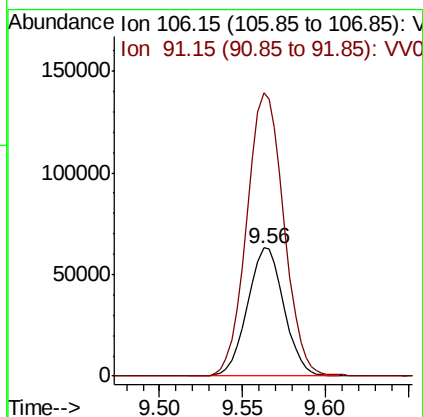
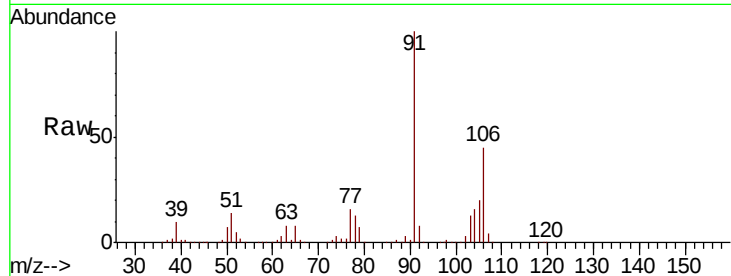




#56  
o-xylene  
Concen: 4.923 ug/L  
RT: 9.56 min Scan# 2635  
Delta R.T. -0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

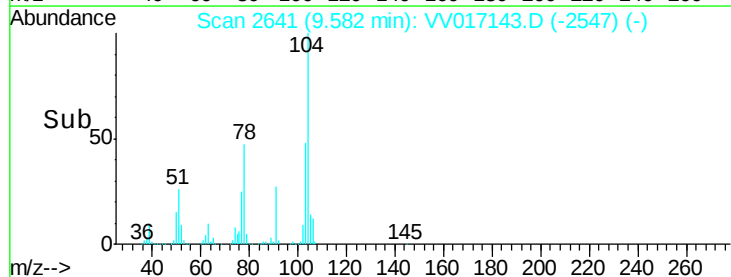
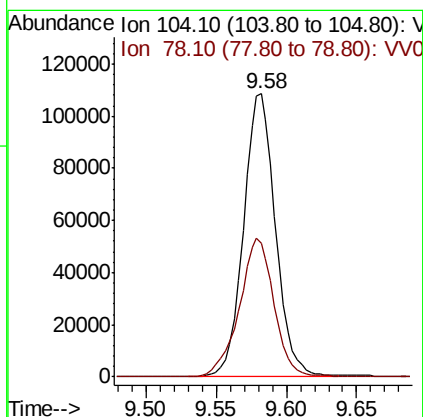
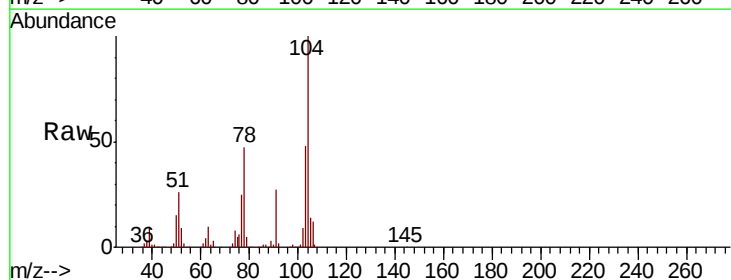
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

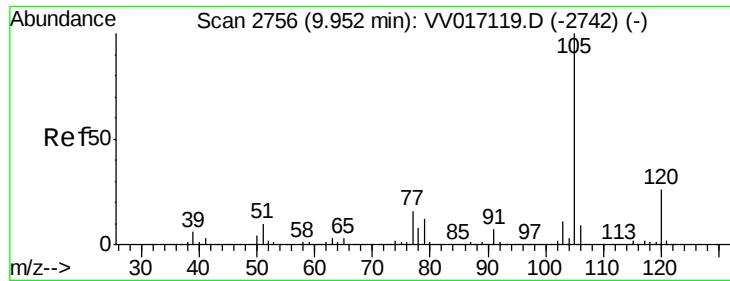
Tot Ion:106 Resp: 96823  
Ion Ratio Lower Upper  
106 100  
91 221.4 153.6 285.2



#57  
Styrene  
Concen: 5.293 ug/L  
RT: 9.58 min Scan# 2641  
Delta R.T. 0.00 min  
Lab File: VV017143.D  
Acq: 25 Jun 2020 21:36

Tgt Ion:104 Resp: 172485  
Ion Ratio Lower Upper  
104 100  
78 47.4 33.9 62.9





#58

Isopropylbenzene

Concen: 5.130 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampleID :

VSTD00560

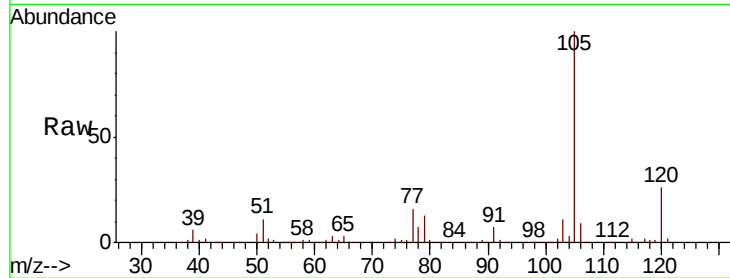
Tot Ion:105 Resp: 277649

Ion Ratio Lower Upper

105 100

120 26.0 21.2 31.8

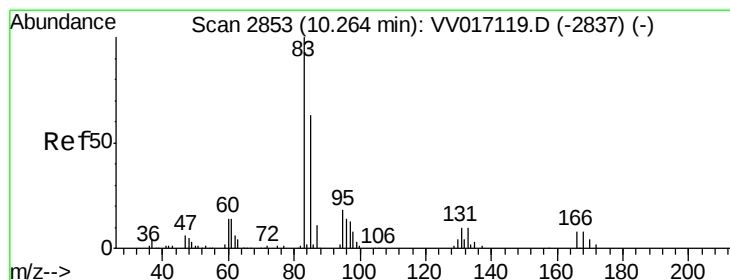
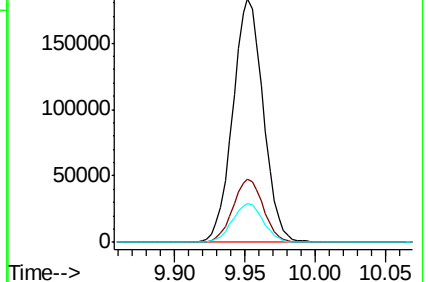
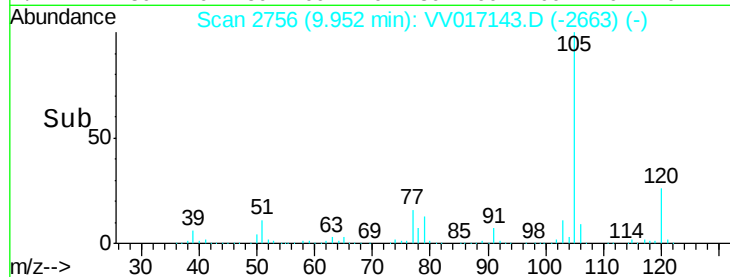
77 16.2 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#60

1,1,2,2-Tetrachloroethane

Concen: 5.600 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

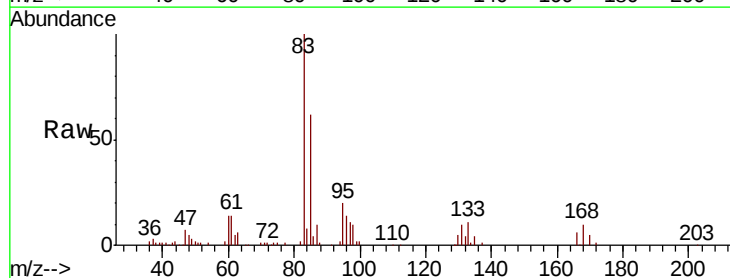
Tgt Ion: 83 Resp: 44038

Ion Ratio Lower Upper

83 100

85 62.3 42.9 79.7

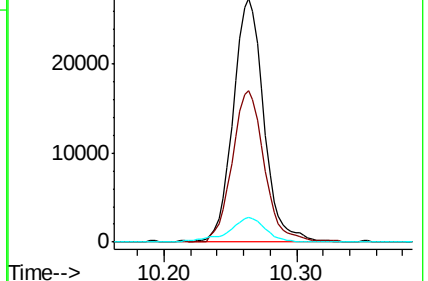
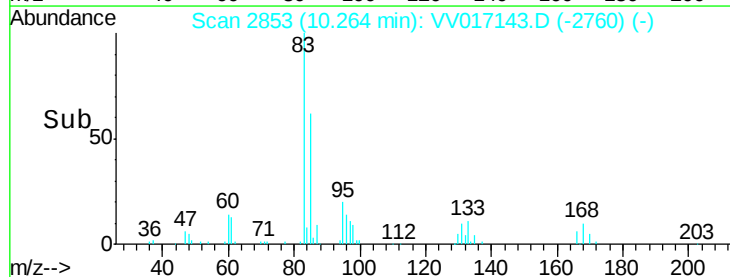
131 10.3 8.6 13.0

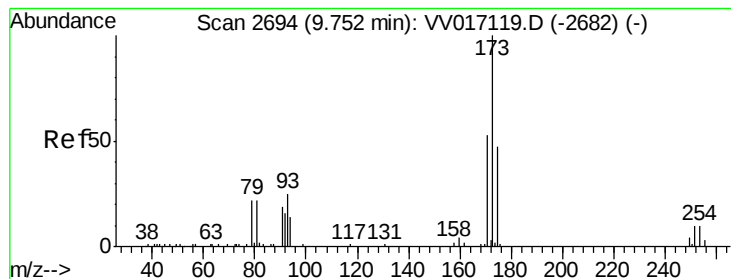


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#62

Bromoform

Concen: 5.689 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

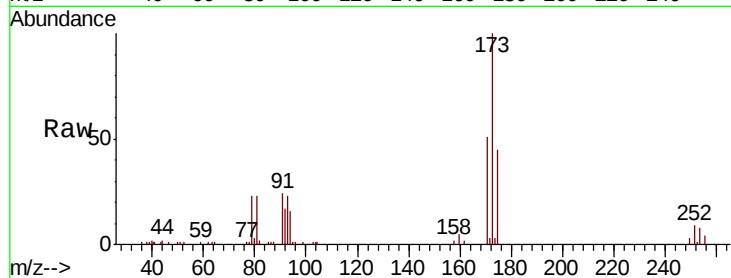
Tot Ion:173 Resp: 26819

Ion Ratio Lower Upper

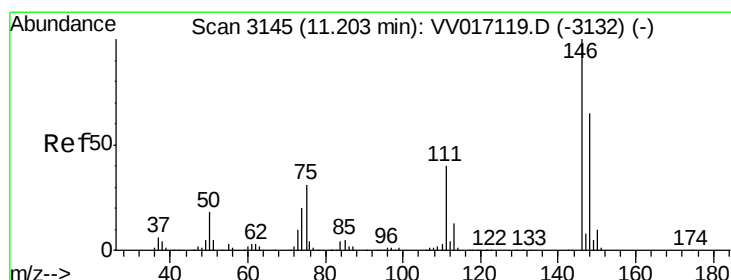
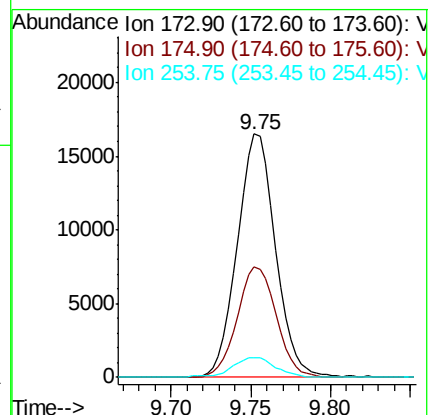
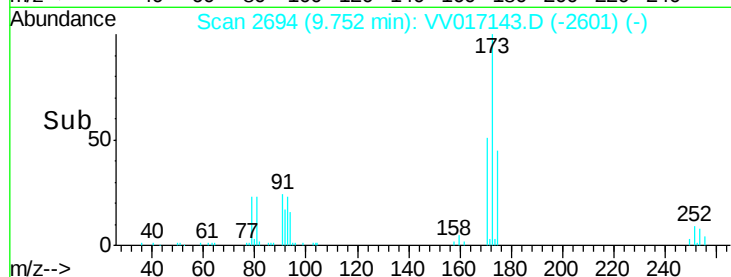
173 100

175 46.2 39.4 59.2

254 9.3 7.4 11.2



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: 5.060 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

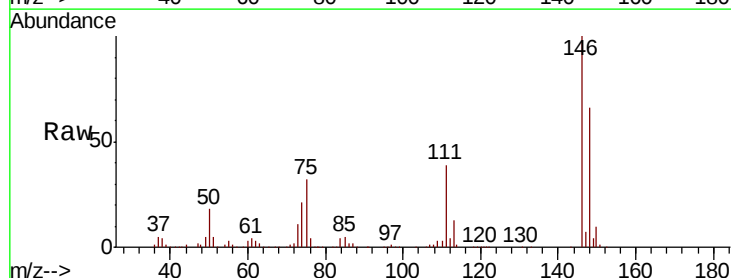
Tgt Ion:146 Resp: 134205

Ion Ratio Lower Upper

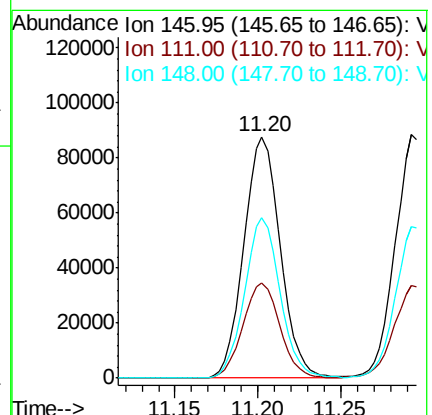
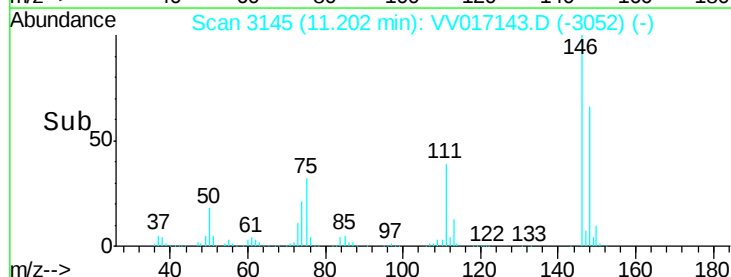
146 100

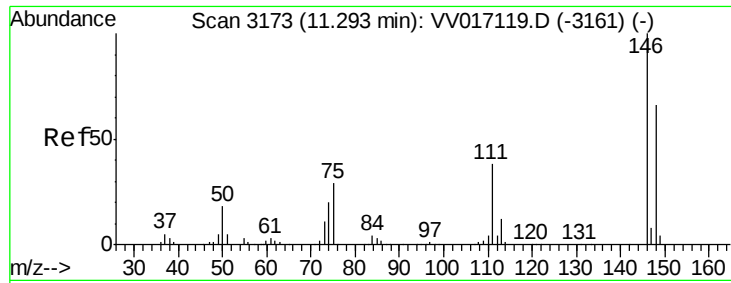
111 39.3 29.2 54.2

148 66.2 44.9 83.5



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: 4.991 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

Instrument :

MSVOA\_V

ClientSampled :

VSTD00560

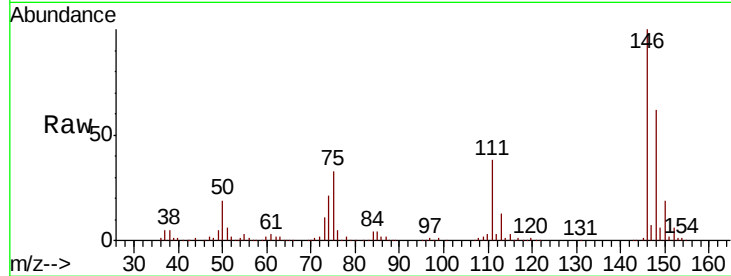
Tot Ion:146 Resp: 134555

Ion Ratio Lower Upper

146 100

111 38.0 27.4 50.8

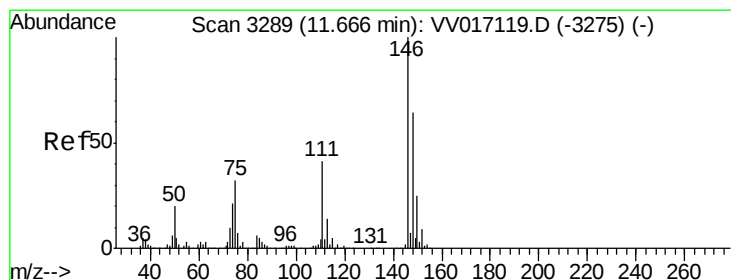
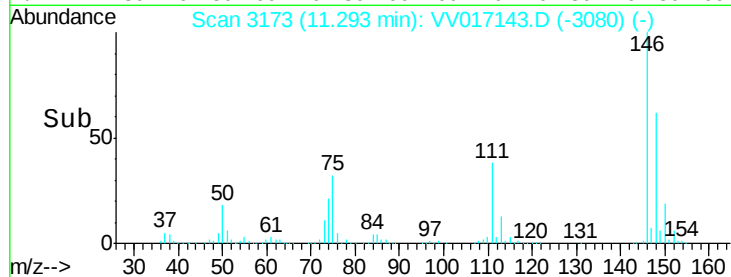
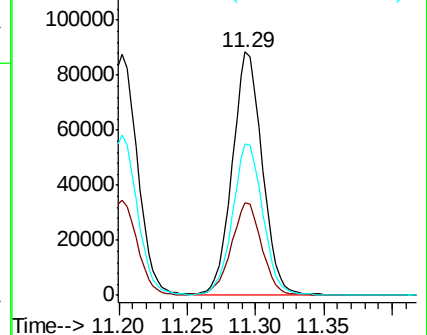
148 62.4 44.3 82.3



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



#66

1,2-Dichlorobenzene

Concen: 5.167 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV017143.D

Acq: 25 Jun 2020 21:36

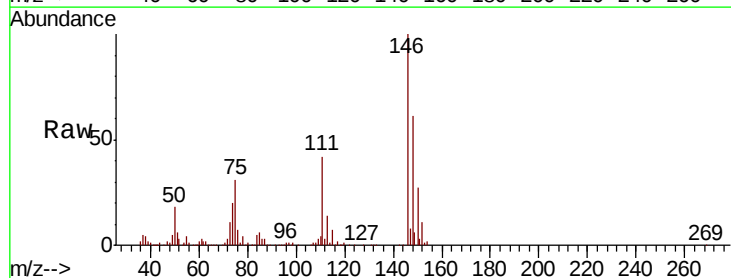
Tgt Ion:146 Resp: 124389

Ion Ratio Lower Upper

146 100

111 41.7 34.4 51.6

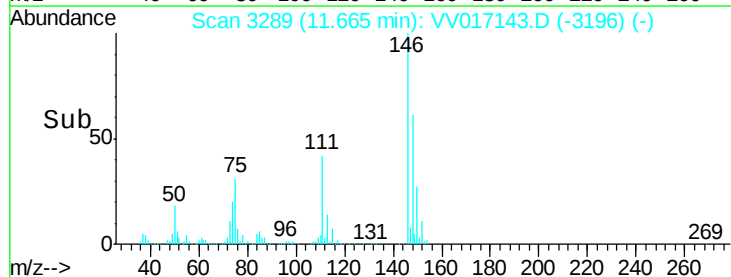
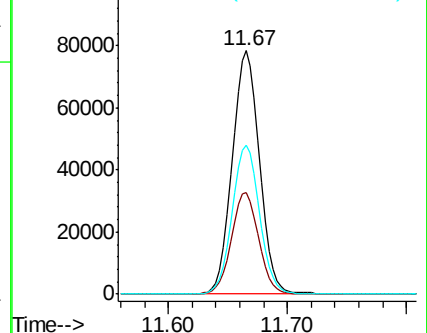
148 61.2 49.9 74.9

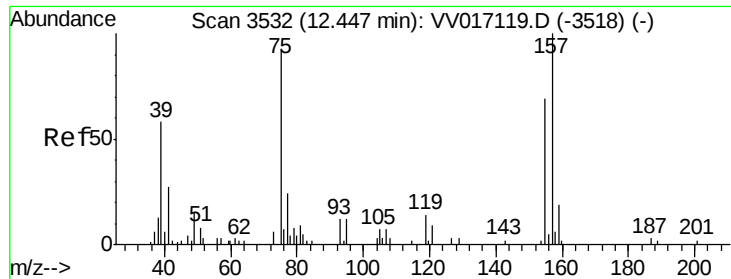


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

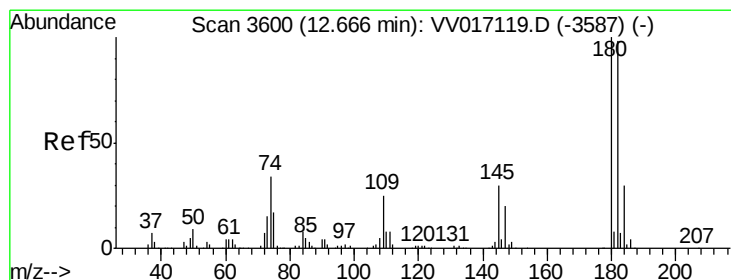
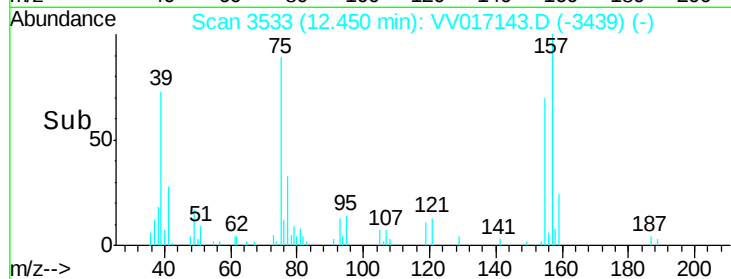
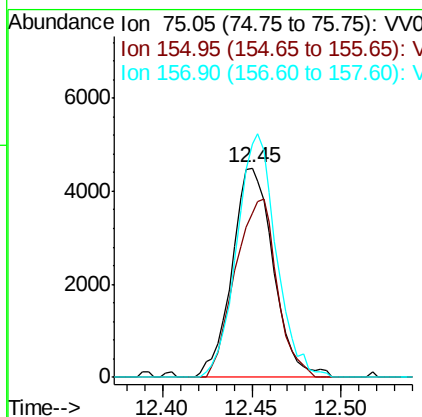
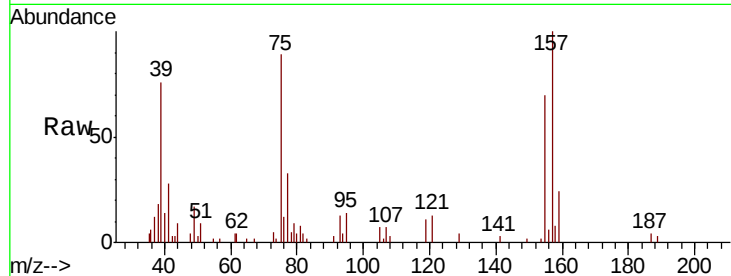




#67  
 1,2-Dibromo-3-chloropropane  
 Concen: 5.479 ug/L  
 RT: 12.45 min Scan# 3533  
 Delta R.T. 0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

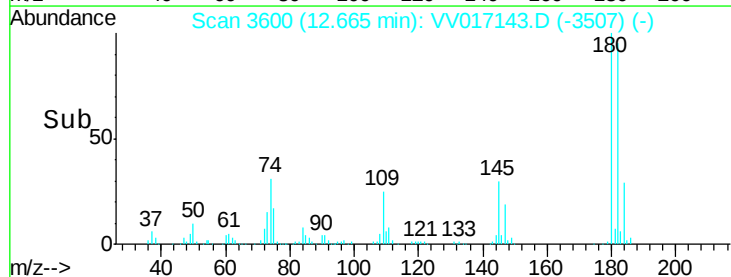
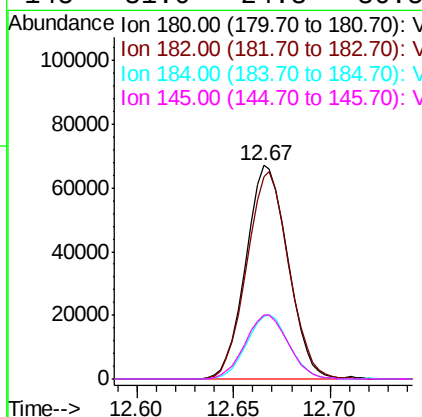
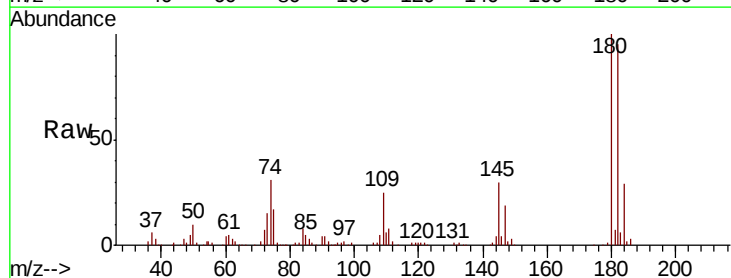
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

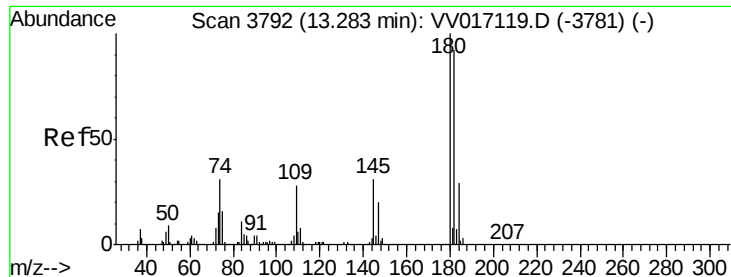
Tot Ion: 75 Resp: 7295  
 Ion Ratio Lower Upper  
 75 100  
 155 78.5 71.1 106.7  
 157 111.8 88.3 132.5



#68  
 1,3,5-Trichlorobenzene  
 Concen: 4.764 ug/L  
 RT: 12.67 min Scan# 3600  
 Delta R.T. -0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

Tgt Ion: 180 Resp: 101532  
 Ion Ratio Lower Upper  
 180 100  
 182 97.4 77.4 116.2  
 184 30.1 24.2 36.4  
 145 31.0 24.3 36.5

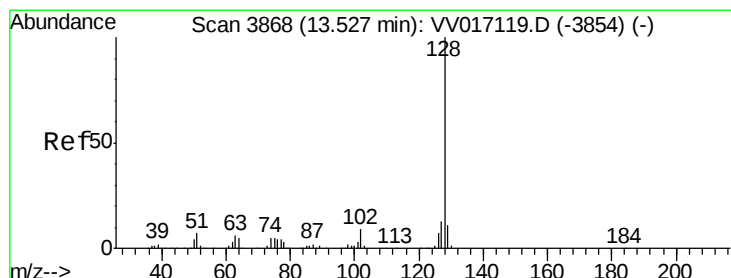
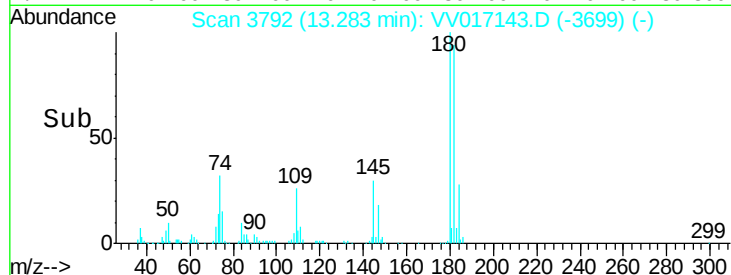
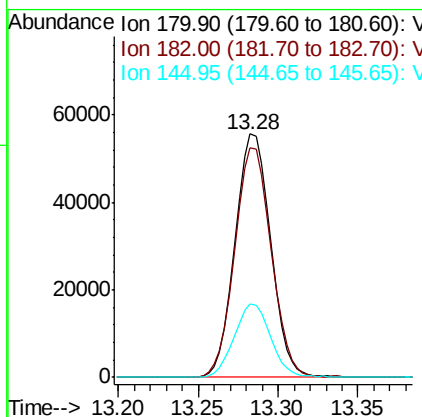
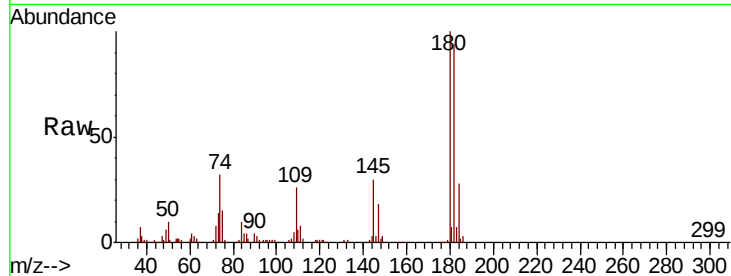




#69  
 1,2,4-trichlorobenzene  
 Concen: 4.810 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. -0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

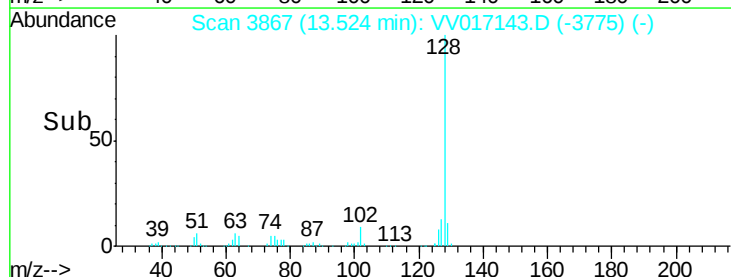
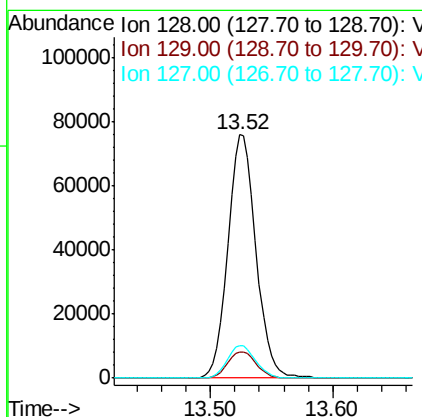
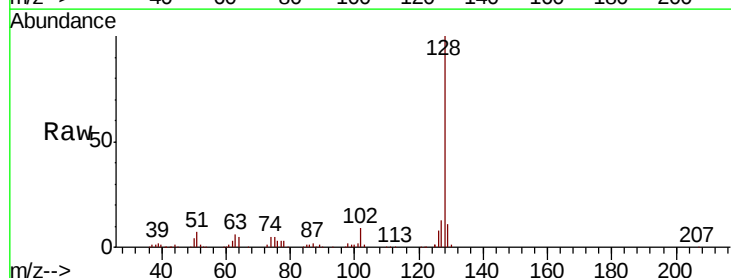
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

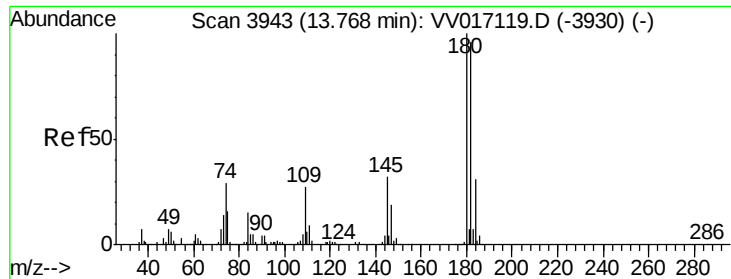
Tot Ion:180 Resp: 84389  
 Ion Ratio Lower Upper  
 180 100  
 182 96.4 76.6 114.8  
 145 30.7 25.0 37.6



#70  
 Naphthalene  
 Concen: 4.944 ug/L  
 RT: 13.52 min Scan# 3867  
 Delta R.T. -0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

Tgt Ion:128 Resp: 122468  
 Ion Ratio Lower Upper  
 128 100  
 129 11.0 8.8 13.2  
 127 13.4 10.5 15.7





#71  
 1,2,3-Trichlorobenzene  
 Concen: 5.342 ug/L  
 RT: 13.77 min Scan# 3942  
 Delta R.T. -0.00 min  
 Lab File: VV017143.D  
 Acq: 25 Jun 2020 21:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

Tot Ion:180 Resp: 76442  
 Ion Ratio Lower Upper  
 180 100  
 182 94.5 77.4 116.0  
 145 34.0 25.9 38.9

