

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV063020\  
 Data File : VV017274.D  
 Acq On : 30 Jun 2020 22:04  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jul 01 06:06:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Jul 01 06:00:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 161905   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 159161   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 82729    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 43797    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 37183    | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 105.20% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 94063    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 101.80% |
| 20) 2-Butanone-d5              | 3.95   | 46    | 122647   | 49.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.04%  |
| 24) Chloroform-d               | 4.38   | 84    | 114306   | 5.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.00% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 61308    | 5.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 111.20% |
| 32) Benzene-d6                 | 5.07   | 84    | 203035   | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 58878    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.20%  |
| 41) Toluene-d8                 | 7.34   | 98    | 186162   | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.20%  |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 25747    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.00% |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 96487    | 49.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 98.38%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 45850    | 5.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 111.60% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 75265    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.40%  |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 65281  | 5.051  | ug/L 97   |
| 3) Chloromethane               | 1.25 | 50  | 52657  | 4.808  | ug/L 99   |
| 5) Vinyl chloride              | 1.32 | 62  | 53032  | 4.992  | ug/L 98   |
| 6) Bromomethane                | 1.53 | 94  | 33036  | 5.335  | ug/L 100  |
| 8) Chloroethane                | 1.60 | 64  | 38292  | 6.522  | ug/L 97   |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 100953 | 5.868  | ug/L 99   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 46821  | 5.460  | ug/L 99   |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 41421  | 5.331  | ug/L 86   |
| 13) Acetone                    | 2.25 | 43  | 63237  | 50.512 | ug/L 48   |
| 14) Carbon disulfide           | 2.31 | 76  | 124600 | 5.352  | ug/L 98   |
| 15) Methyl Acetate             | 2.46 | 43  | 11724  | 3.830  | ug/L # 76 |
| 16) Methylene chloride         | 2.52 | 84  | 45527  | 5.471  | ug/L 97   |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 109529 | 5.614  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 45652  | 5.544  | ug/L 97   |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 102960 | 5.565  | ug/L 98   |
| 21) 2-Butanone                 | 4.04 | 43  | 110217 | 46.704 | ug/L # 69 |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 57694  | 5.124  | ug/L # 96 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV063020\  
 Data File : VV017274.D  
 Acq On : 30 Jun 2020 22:04  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jul 01 06:06:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Jul 01 06:00:36 2020  
 Response via : Initial Calibration

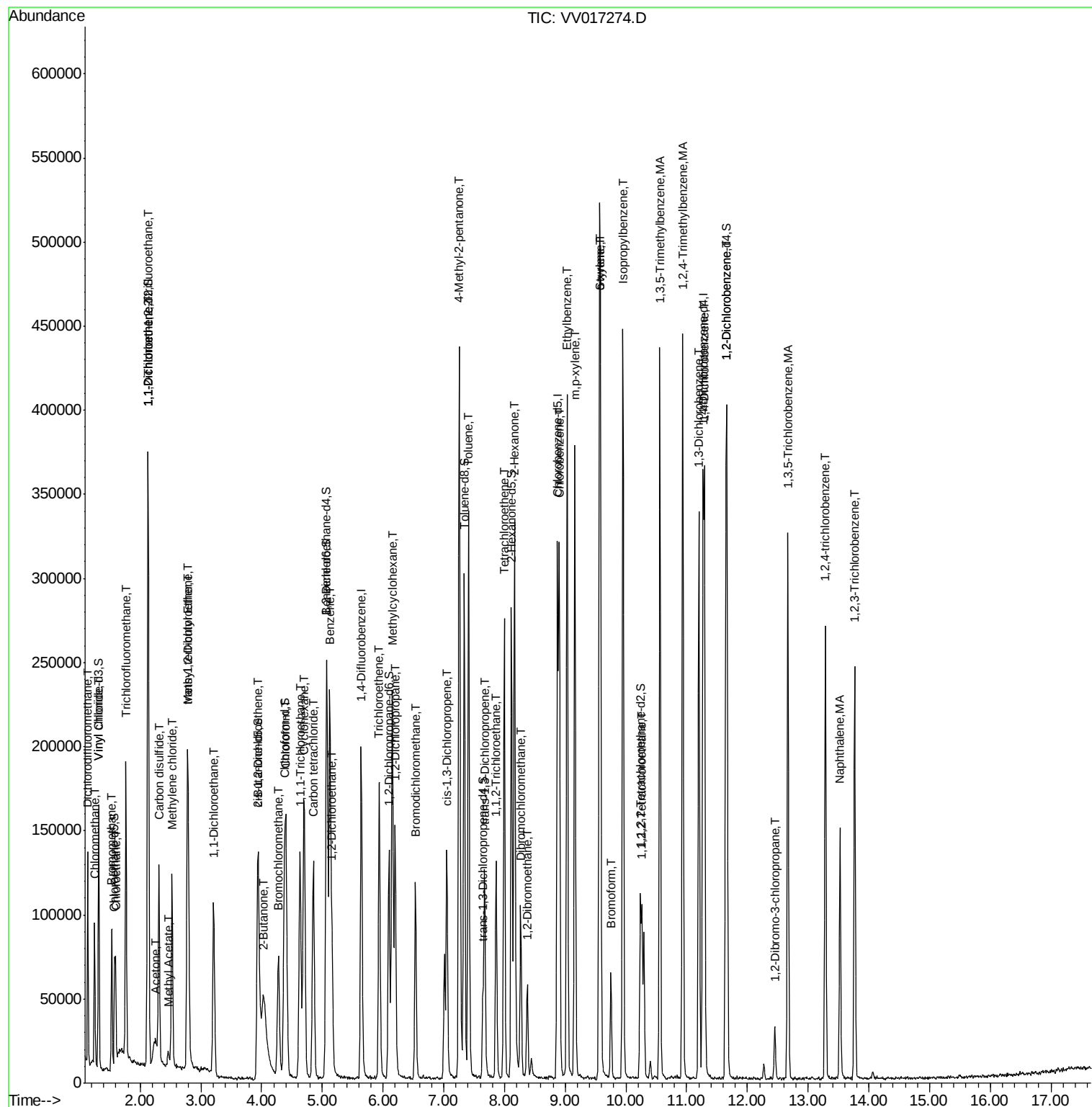
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.28  | 128  | 26759    | 5.592  | ug/L  | 94       |
| 25) Chloroform                 | 4.40  | 83   | 111678   | 5.526  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 71278    | 5.677  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 105383   | 5.527  | ug/L  | 99       |
| 30) Cyclohexane                | 4.70  | 56   | 82517    | 4.548  | ug/L  | 95       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 94888    | 5.515  | ug/L  | 99       |
| 33) Benzene                    | 5.13  | 78   | 216585   | 5.196  | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 58924    | 4.828  | ug/L  | 95       |
| 35) Methylcyclohexane          | 6.15  | 83   | 87804    | 4.628  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 53965    | 5.230  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.53  | 83   | 76121    | 5.431  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 71784    | 4.683  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 304451   | 51.104 | ug/L  | 99       |
| 42) Toluene                    | 7.41  | 91   | 239614   | 4.945  | ug/L  | 99       |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 220732   | 5.094  | ug/L  | 100      |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 229437   | 5.199  | ug/L  | 100      |
| 46) trans-1,3-Dichloropropene  | 7.67  | 75   | 65770    | 4.960  | ug/L  | 100      |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 37950    | 5.186  | ug/L  | 98       |
| 49) Tetrachloroethene          | 8.00  | 164  | 59114    | 6.017  | ug/L  | 97       |
| 50) 2-Hexanone                 | 8.16  | 43   | 217049   | 51.195 | ug/L  | 100      |
| 51) Dibromochloromethane       | 8.27  | 129  | 51398    | 5.794  | ug/L  | 97       |
| 52) 1,2-Dibromoethane          | 8.37  | 107  | 35249    | 5.079  | ug/L  | 97       |
| 53) Chlorobenzene              | 8.90  | 112  | 154655   | 5.119  | ug/L  | 97       |
| 54) Ethylbenzene               | 9.03  | 91   | 261847   | 5.062  | ug/L  | 99       |
| 55) m,p-xylene                 | 9.16  | 106  | 102579   | 5.056  | ug/L  | 97       |
| 56) o-xylene                   | 9.56  | 106  | 97244    | 5.136  | ug/L  | 99       |
| 57) Styrene                    | 9.58  | 104  | 167401   | 5.336  | ug/L  | 96       |
| 58) Isopropylbenzene           | 9.95  | 105  | 268170   | 5.147  | ug/L  | 99       |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 42661    | 5.636  | ug/L  | 95       |
| 62) Bromoform                  | 9.75  | 173  | 28216    | 6.375  | ug/L  | 97       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 130904   | 5.256  | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene        | 11.29 | 146  | 127369   | 5.032  | ug/L  | 98       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 119636   | 5.293  | ug/L  | 97       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 7366     | 5.892  | ug/L  | 94       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 97497    | 4.872  | ug/L  | 98       |
| 69) 1,2,4-trichlorobenzene     | 13.29 | 180  | 79085    | 4.801  | ug/L  | 99       |
| 70) Naphthalene                | 13.52 | 128  | 114989   | 4.943  | ug/L  | 98       |
| 71) 1,2,3-Trichlorobenzene     | 13.76 | 180  | 71261    | 5.304  | ug/L  | 99       |

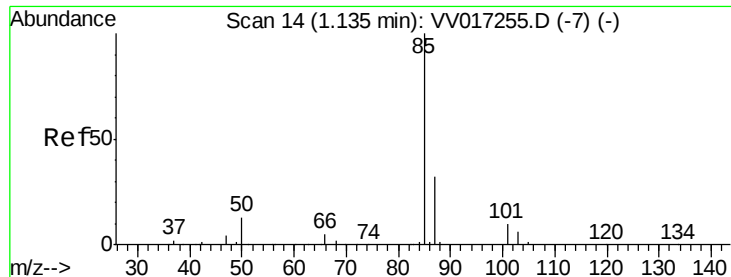
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV063020\  
Data File : VV017274.D  
Acq On : 30 Jun 2020 22:04  
Operator : SY/MD  
Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Jul 01 06:06:21 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Jul 01 06:00:36 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.051 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

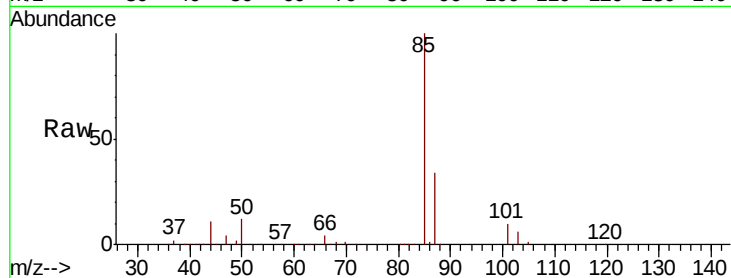
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 85 Resp: 65281

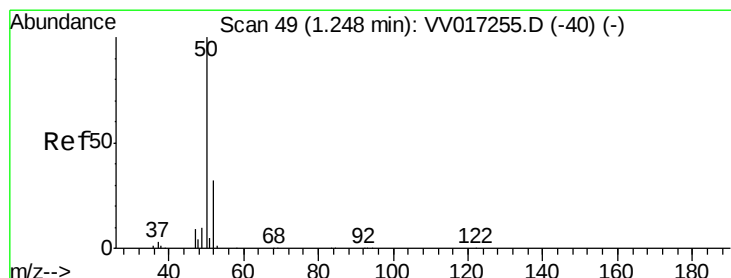
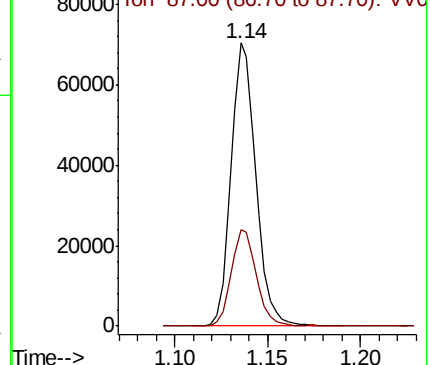
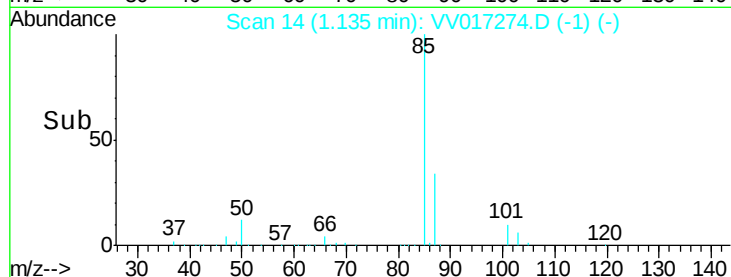
Ion Ratio Lower Upper

85 100

87 34.5 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV017274.D (-1) (-)



#3

Chloromethane

Concen: 4.808 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV017274.D

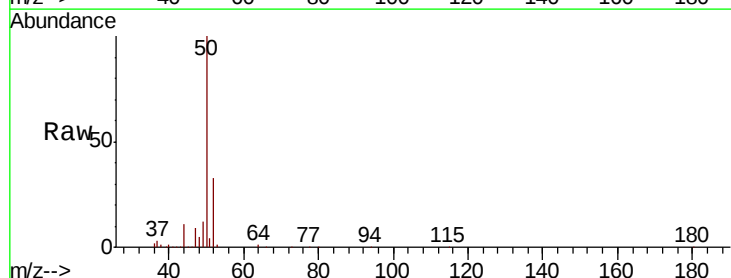
Acq: 30 Jun 2020 22:04

Tgt Ion: 50 Resp: 52657

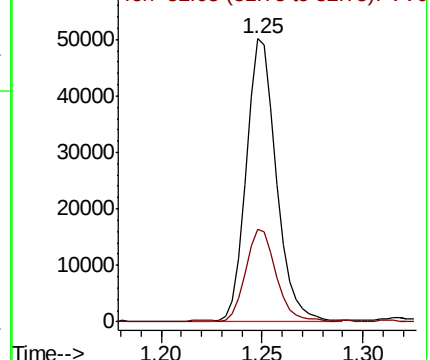
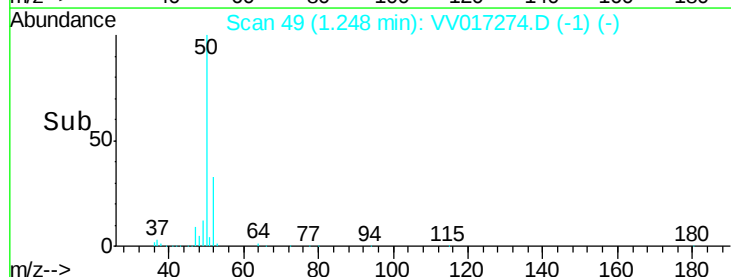
Ion Ratio Lower Upper

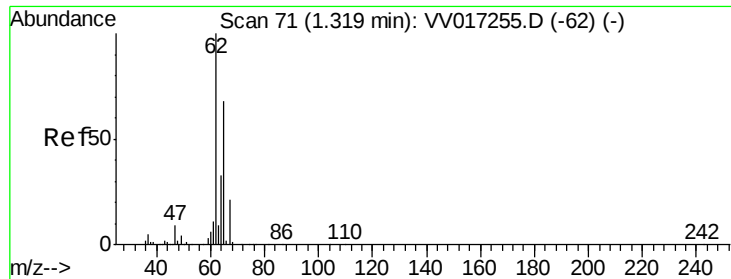
50 100

52 32.7 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV017274.D (-1) (-)





#5

Vinyl chloride

Concen: 4.992 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

Instrument :

MSVOA\_V

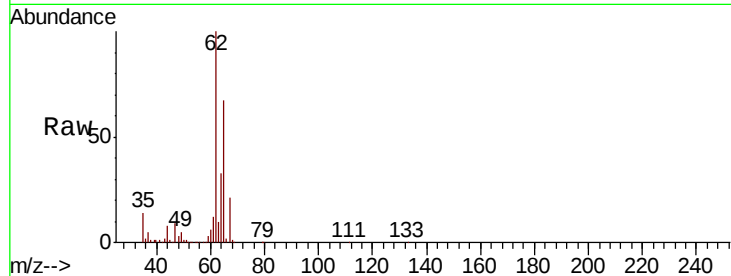
ClientSampleId :

Tot Ion: 62 Resp: 53032

Ion Ratio Lower Upper

62 100

64 33.1 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

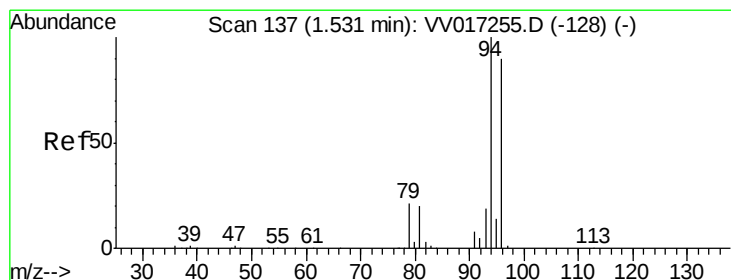
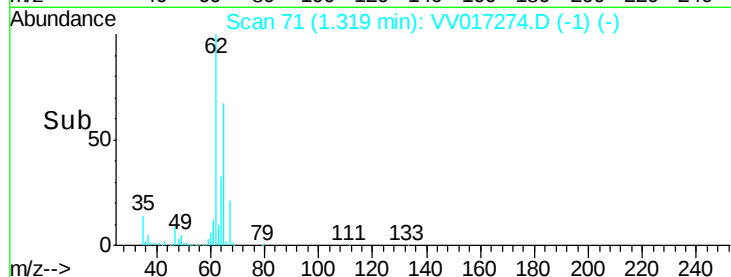
20000

10000

0

Time-->

1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 5.335 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV017274.D

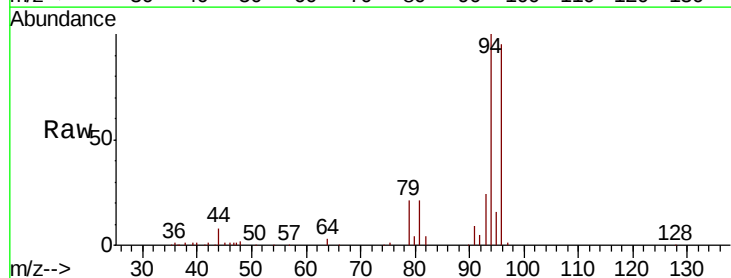
Acq: 30 Jun 2020 22:04

Tgt Ion: 94 Resp: 33036

Ion Ratio Lower Upper

94 100

96 94.8 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

15000

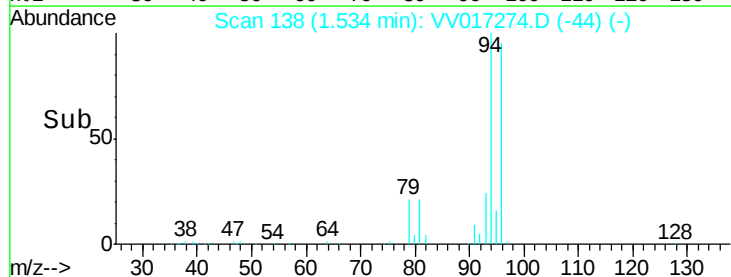
10000

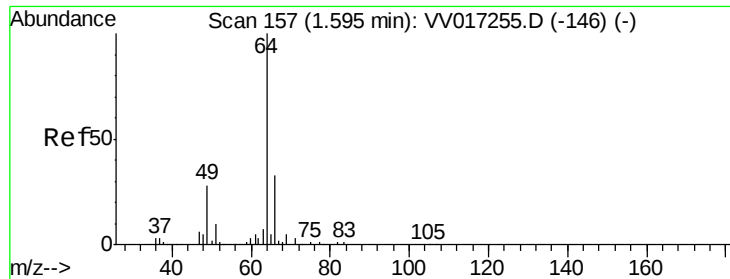
5000

0

Time-->

1.50 1.55 1.60

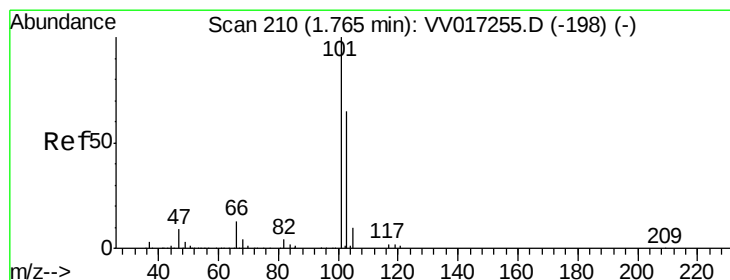
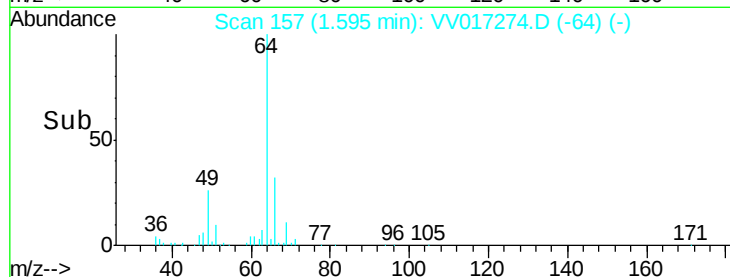
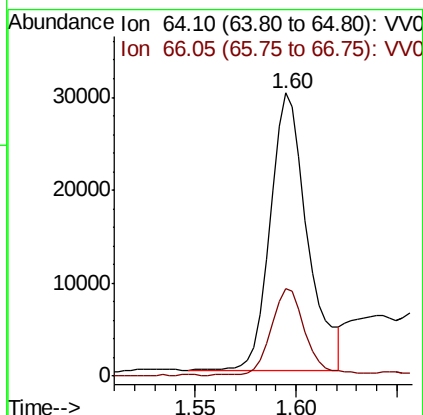
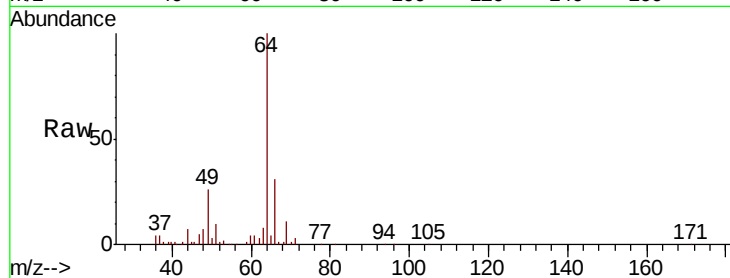




#8  
Chloroethane  
Concen: 6.522 ug/L  
RT: 1.60 min Scan# 157  
Delta R.T. -0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

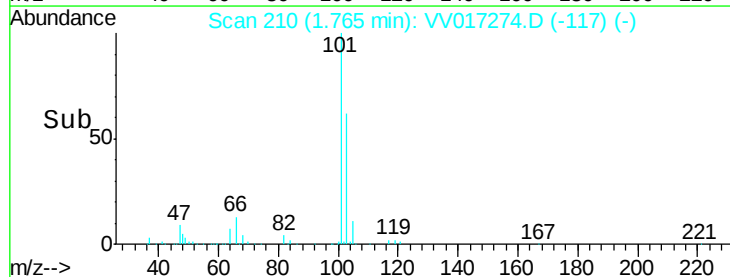
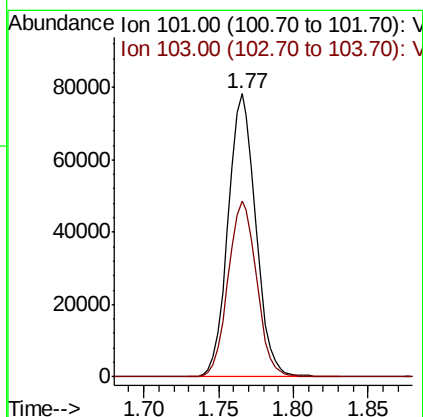
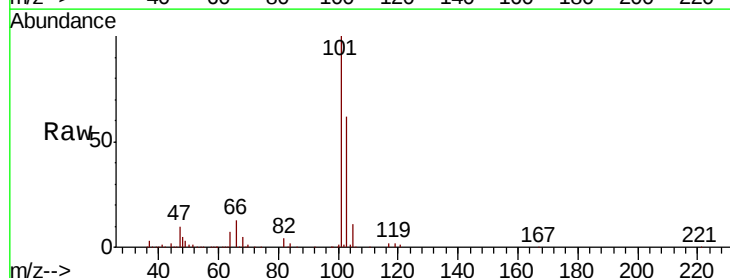
Instrument :  
MSVOA\_V  
ClientSampleId :

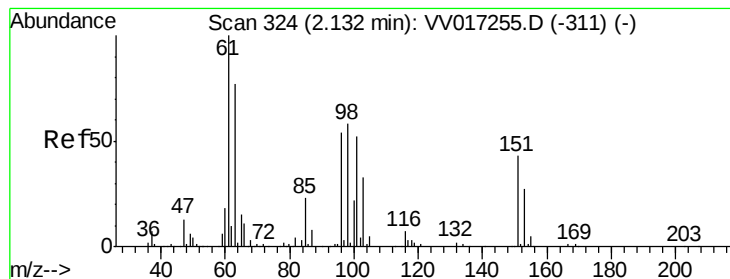
Tot Ion: 64 Resp: 38292  
Ion Ratio Lower Upper  
64 100  
66 30.8 22.8 42.4



#9  
Trichlorofluoromethane  
Concen: 5.868 ug/L  
RT: 1.77 min Scan# 210  
Delta R.T. -0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Tgt Ion:101 Resp: 100953  
Ion Ratio Lower Upper  
101 100  
103 64.1 50.9 76.3





#10

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

Concen: 5.460 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

Instrument :

MSVOA\_V

ClientSampled :

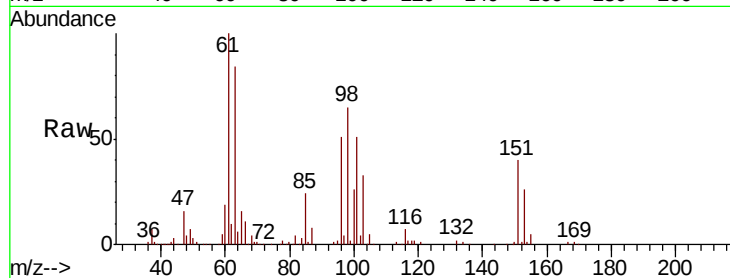
Tot Ion:101 Resp: 46821

Ion Ratio Lower Upper

101 100

85 46.3 35.4 53.2

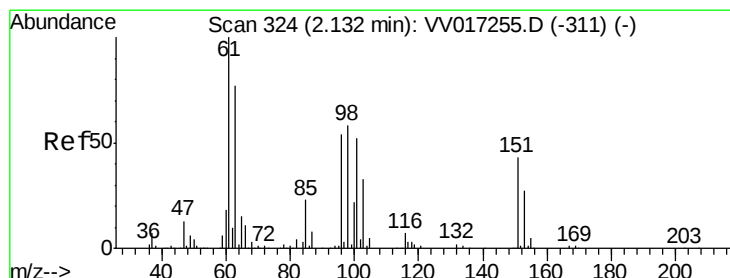
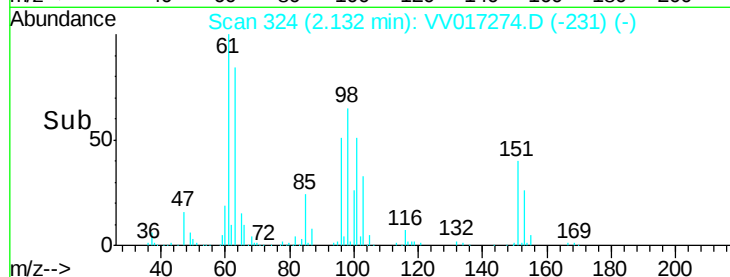
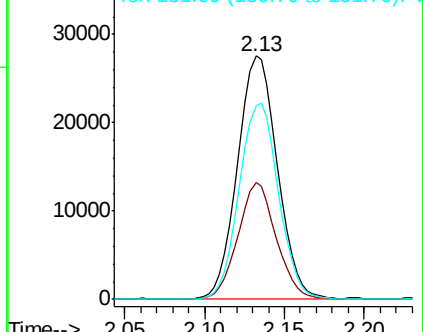
151 79.5 63.9 95.9



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: 5.331 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

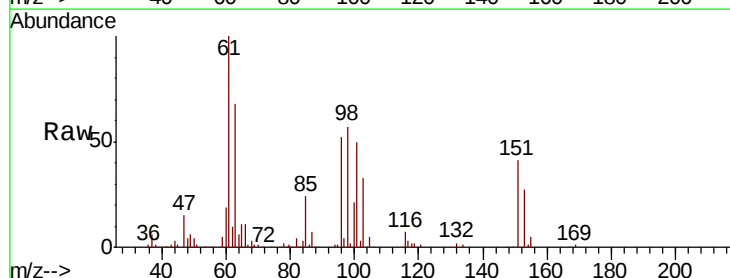
Tgt Ion: 96 Resp: 41421

Ion Ratio Lower Upper

96 100

61 190.7 125.0 232.2

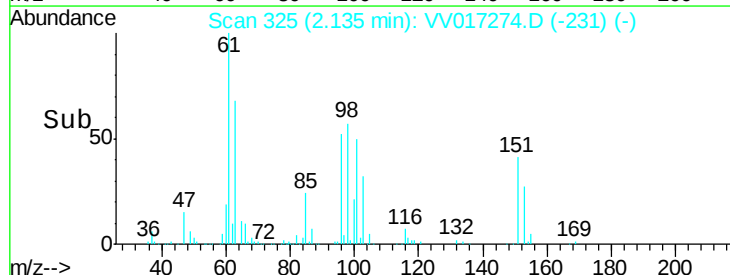
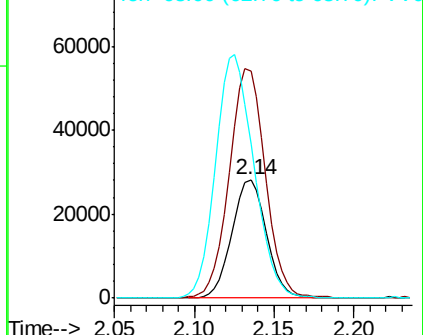
63 130.2 109.8 203.8

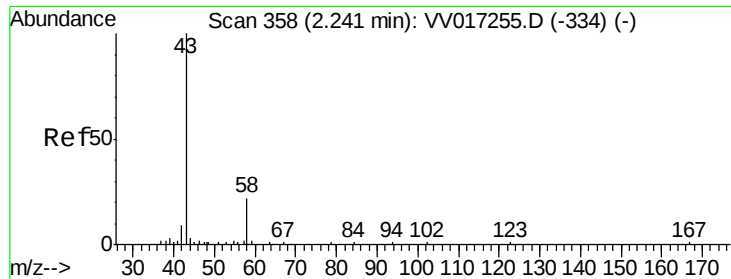


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 50.512 ug/L

RT: 2.25 min Scan# 360

Delta R.T. 0.01 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

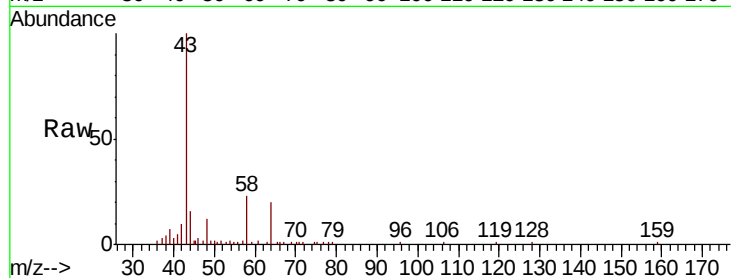
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 63237

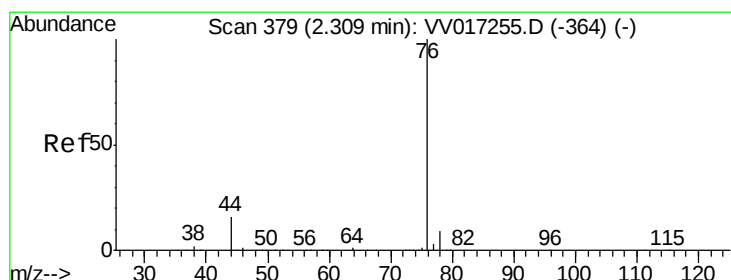
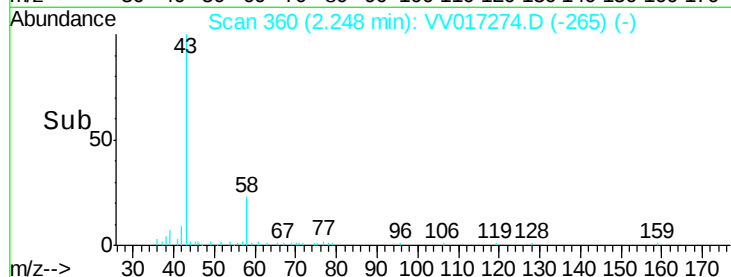
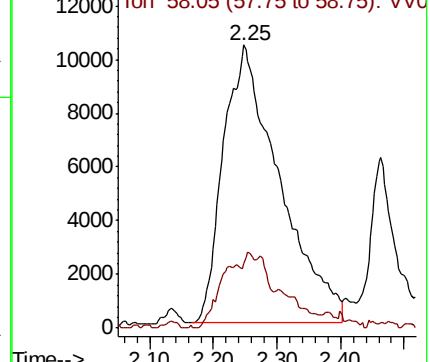
Ion Ratio Lower Upper

43 100

58 1.2 0.0 58.4



Abundance Ion 43.05 (42.75 to 43.75): VV017274.D (-265) (-)



#14

Carbon disulfide

Concen: 5.352 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV017274.D

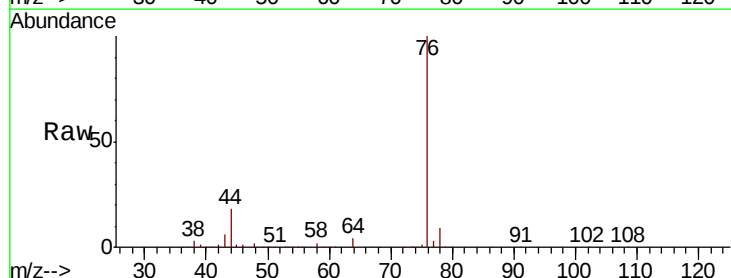
Acq: 30 Jun 2020 22:04

Tgt Ion: 76 Resp: 124600

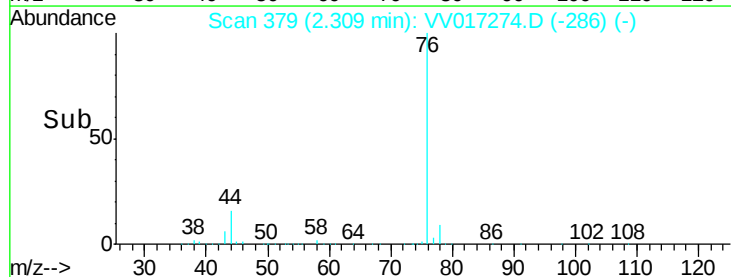
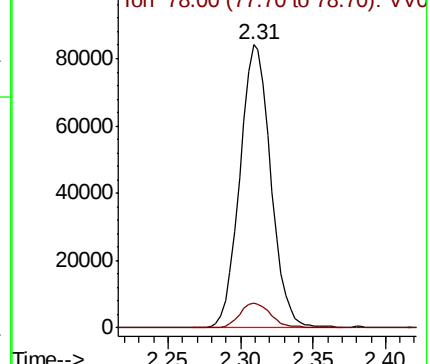
Ion Ratio Lower Upper

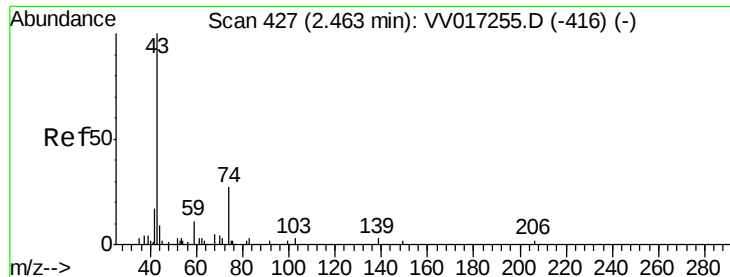
76 100

78 8.8 7.7 11.5



Abundance Ion 76.05 (75.75 to 76.75): VV017274.D (-286) (-)

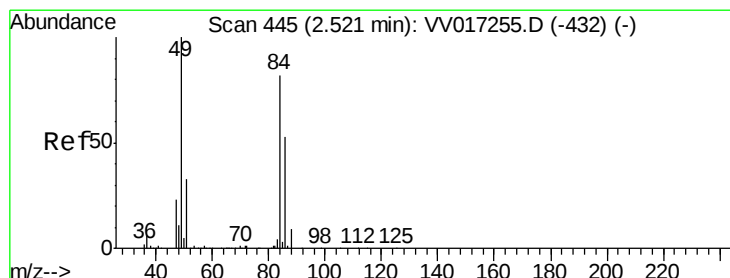
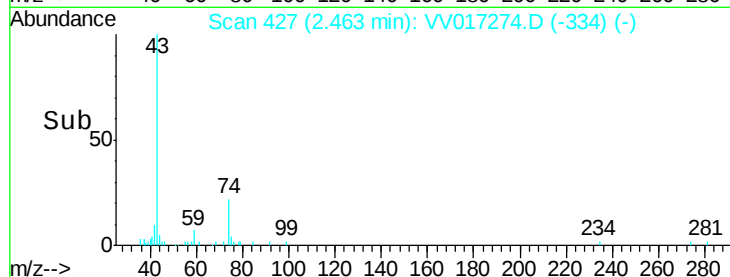
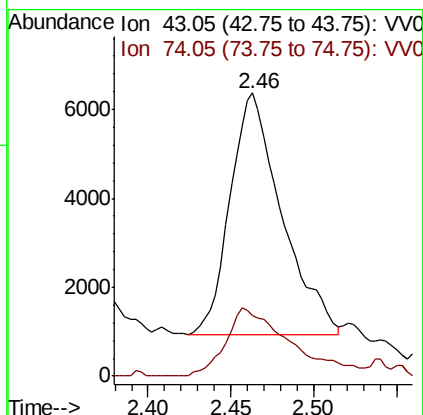
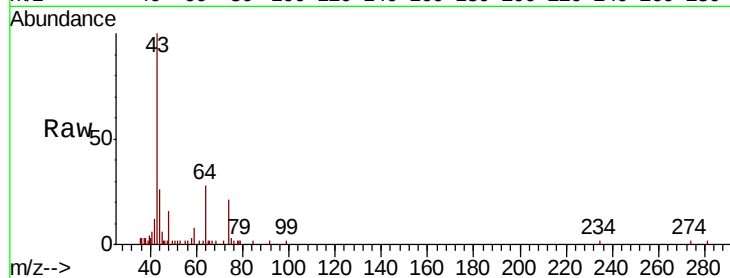




#15  
Methvl Acetate  
Concen: 3.830 ug/L  
RT: 2.46 min Scan# 427  
Delta R.T. -0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

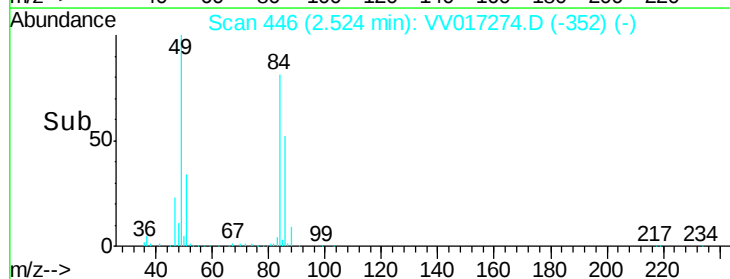
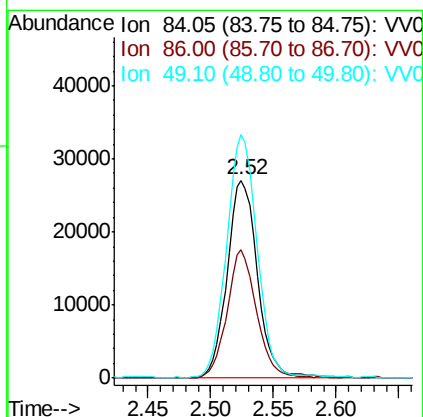
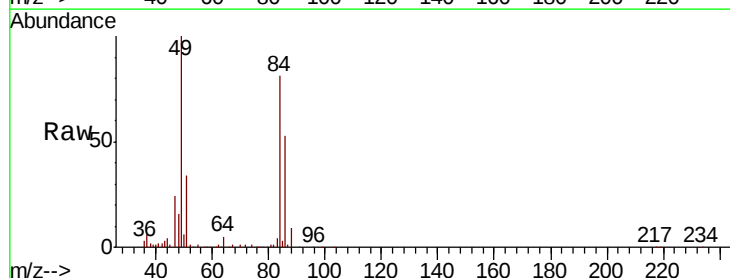
Instrument :  
MSVOA\_V  
ClientSampleId :

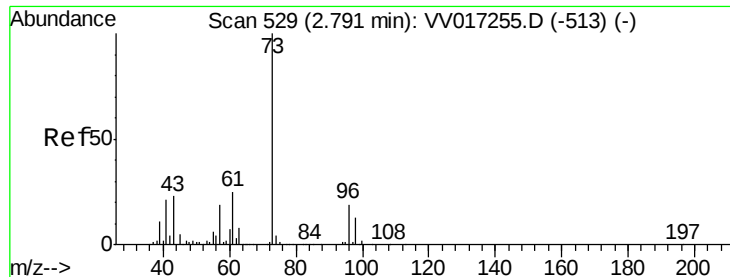
Tot Ion: 43 Resp: 11724  
Ion Ratio Lower Upper  
43 100  
74 35.5 19.1 28.7#



#16  
Methylene chloride  
Concen: 5.471 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Tgt Ion: 84 Resp: 45527  
Ion Ratio Lower Upper  
84 100  
86 64.8 45.8 85.0  
49 123.0 89.6 166.4

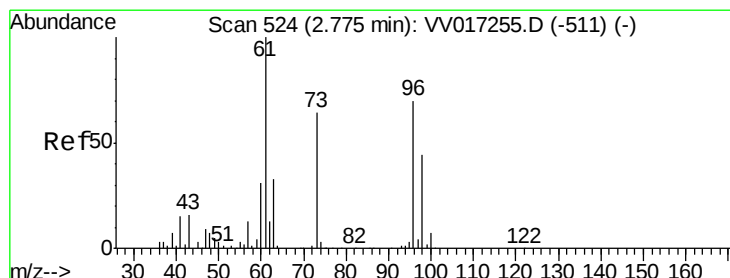
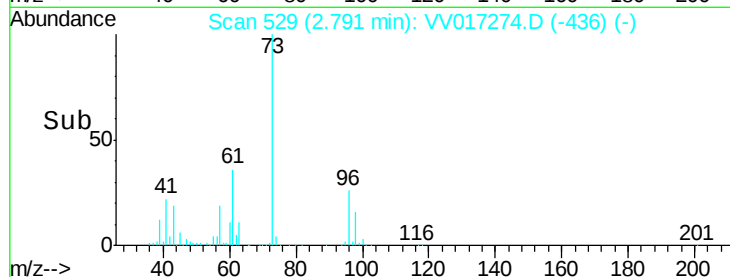
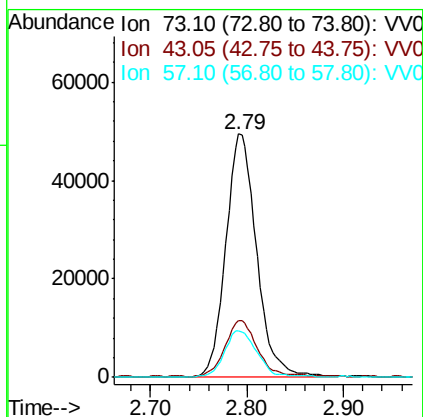
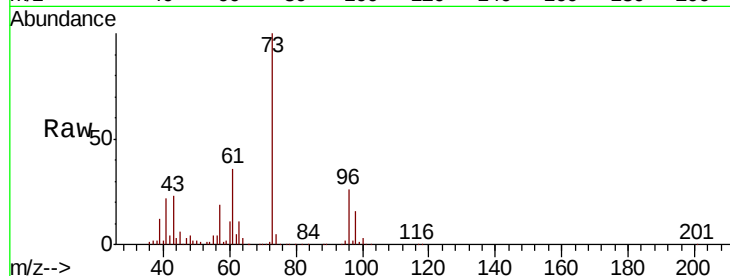




#17  
Methvl tert-butvl Ether  
Concen: 5.614 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. -0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

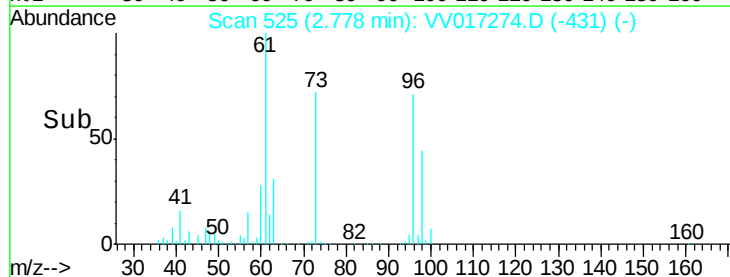
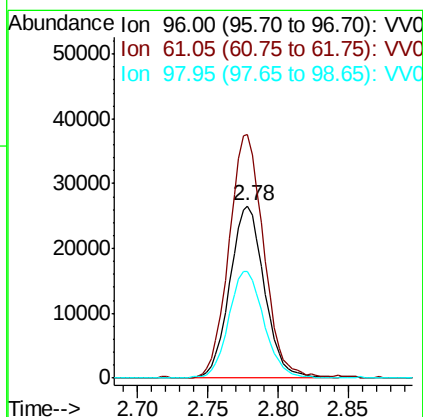
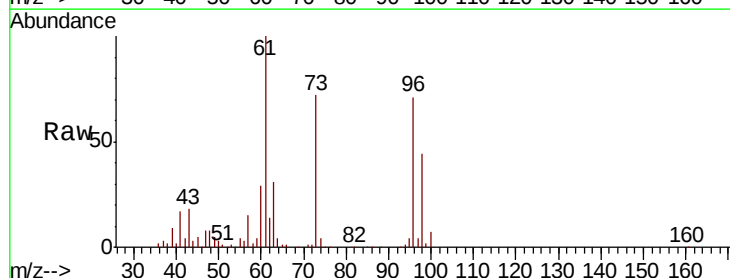
Instrument :  
MSVOA\_V  
ClientSampleId :

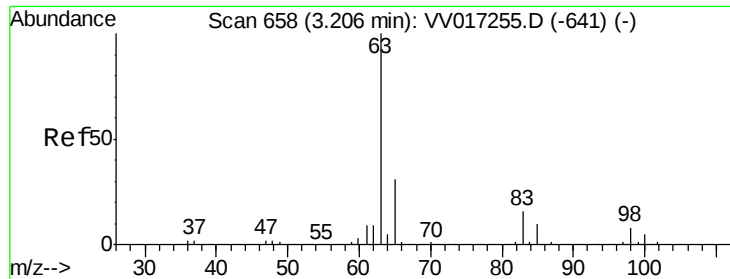
Tot Ion: 73 Resp: 109529  
Ion Ratio Lower Upper  
73 100  
43 24.4 18.6 28.0  
57 20.5 16.4 24.6



#18  
trans-1,2-Dichloroethene  
Concen: 5.544 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Tgt Ion: 96 Resp: 45652  
Ion Ratio Lower Upper  
96 100  
61 141.3 102.3 189.9  
98 62.1 44.7 82.9

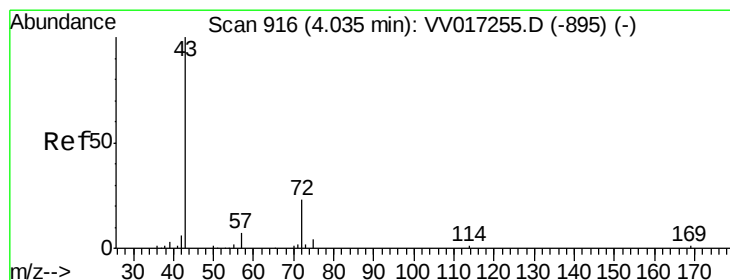
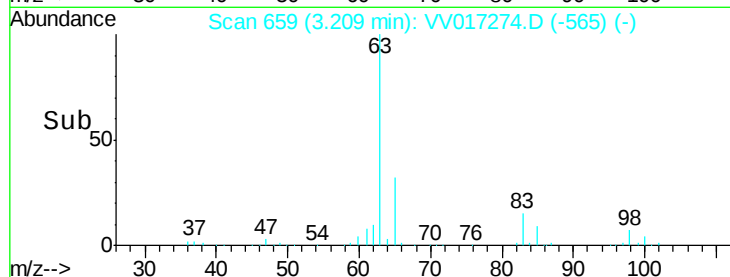
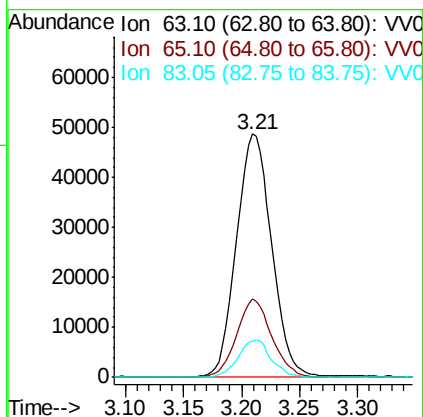
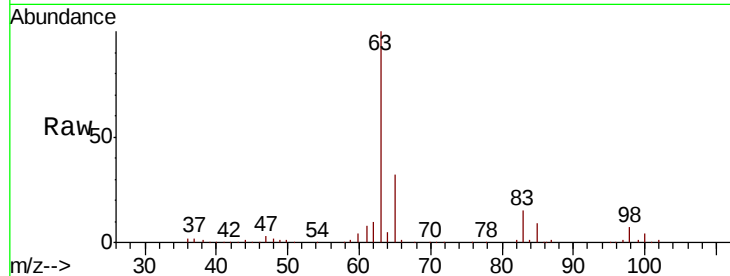




#19  
 1,1-Dichloroethane  
 Concen: 5.565 ug/L  
 RT: 3.21 min Scan# 659  
 Delta R.T. 0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

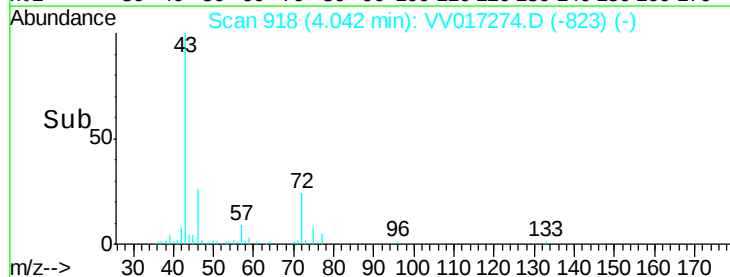
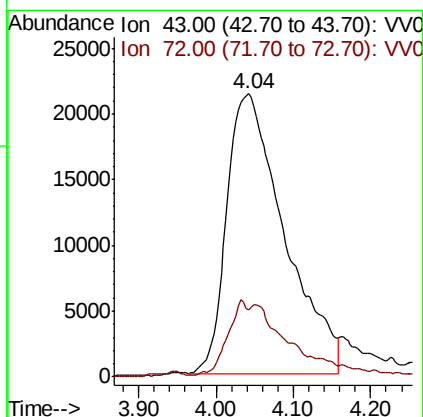
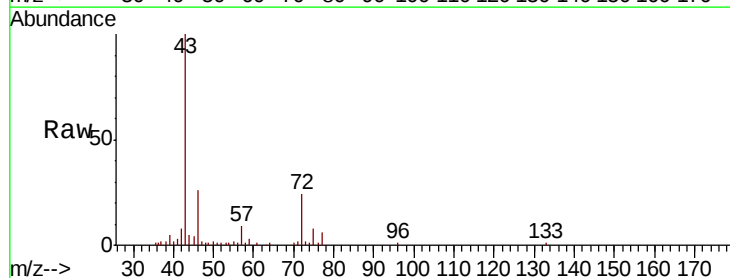
Instrument :  
 MSVOA\_V  
 ClientSampleId :

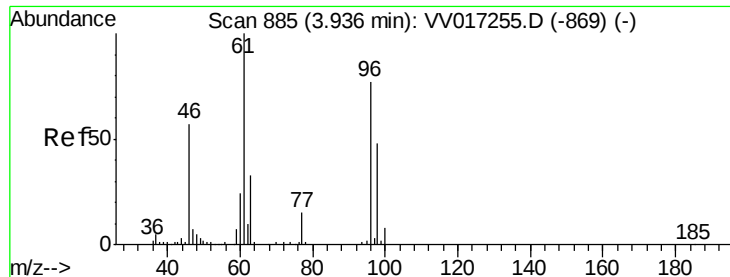
Tot Ion: 63 Resp: 102960  
 Ion Ratio Lower Upper  
 63 100  
 65 32.1 21.8 40.4  
 83 14.8 9.7 17.9



#21  
 2-Butanone  
 Concen: 46.704 ug/L  
 RT: 4.04 min Scan# 918  
 Delta R.T. 0.01 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Tgt Ion: 43 Resp: 110217  
 Ion Ratio Lower Upper  
 43 100  
 72 9.4 12.4 37.4#



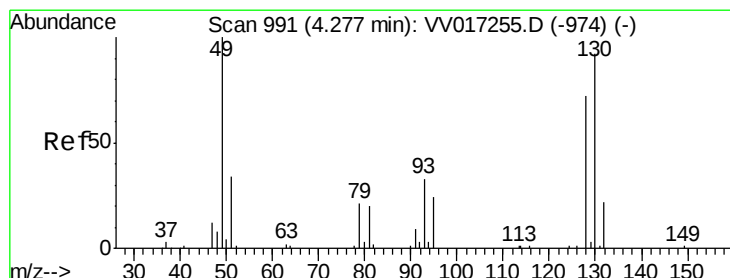
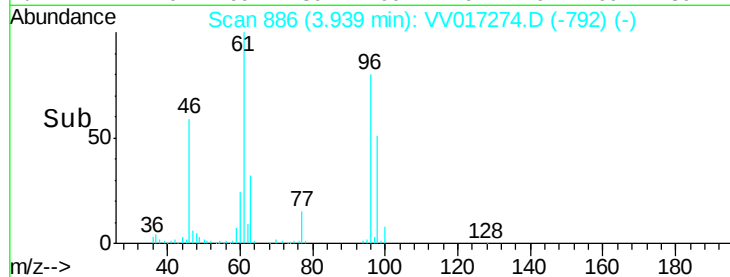
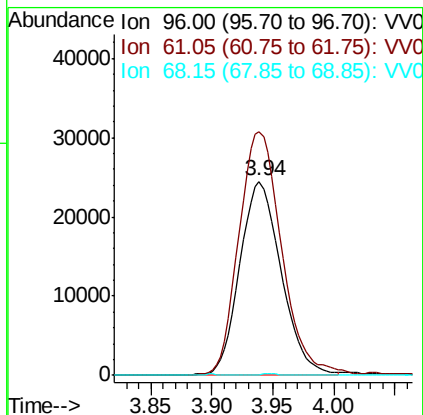
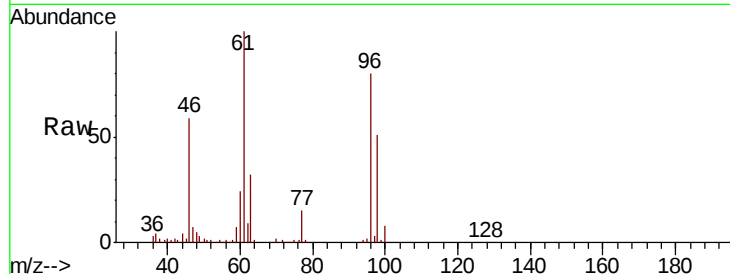


#22

cis-1,2-Dichloroethene  
Concen: 5.124 ug/L  
RT: 3.94 min Scan# 886  
Delta R.T. 0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Instrument :  
MSVOA\_V  
ClientSampled :

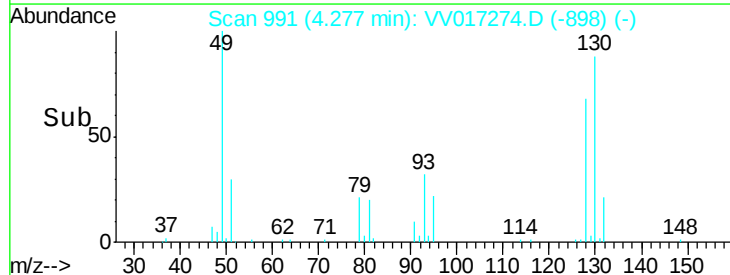
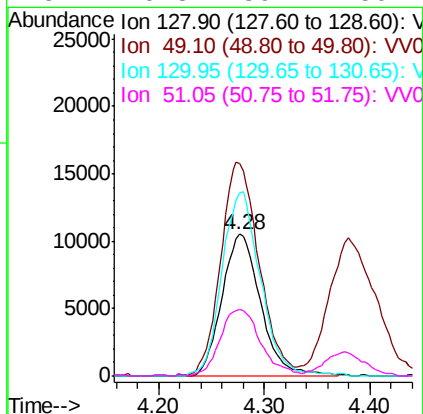
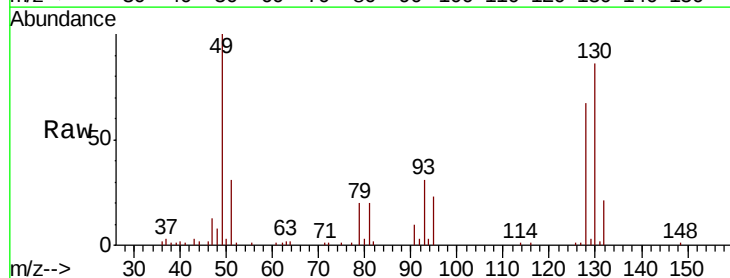
Tot Ion: 96 Resp: 57694  
Ion Ratio Lower Upper  
96 100  
61 125.6 91.0 169.0  
68 0.5 0.0 0.0#

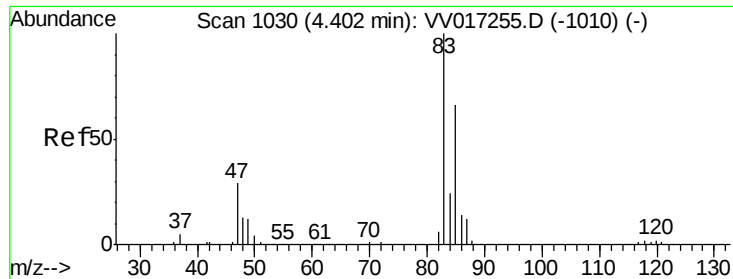


#23

Bromochloromethane  
Concen: 5.592 ug/L  
RT: 4.28 min Scan# 991  
Delta R.T. -0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Tgt Ion: 128 Resp: 26759  
Ion Ratio Lower Upper  
128 100  
49 150.1 110.8 205.8  
130 129.3 86.0 159.8  
51 46.8 39.4 59.2

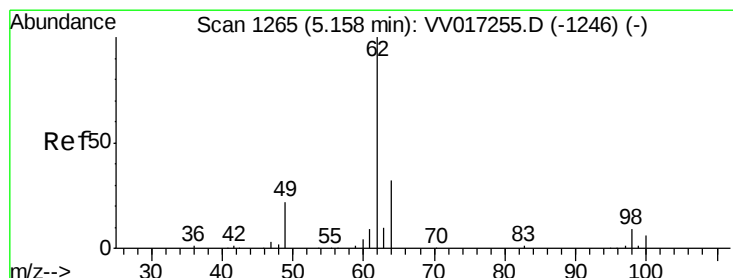
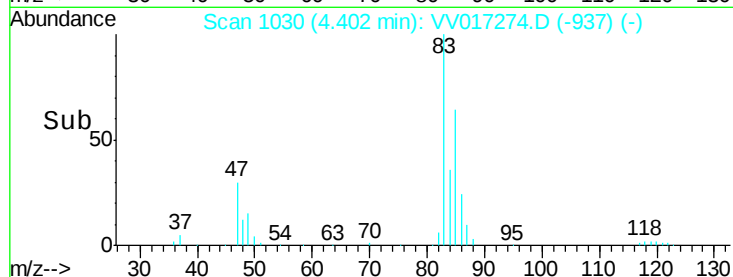
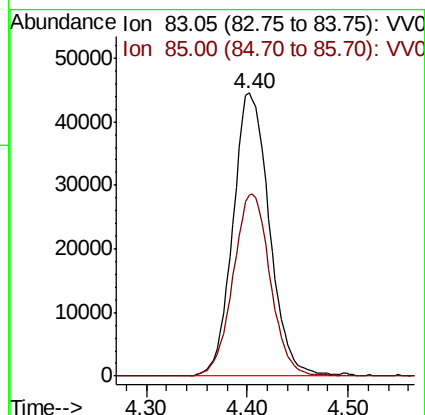
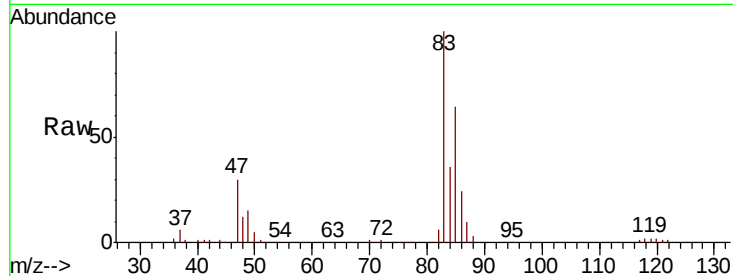




#25  
Chloroform  
Concen: 5.526 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. -0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

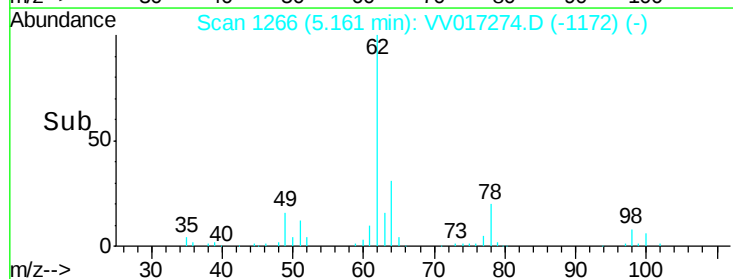
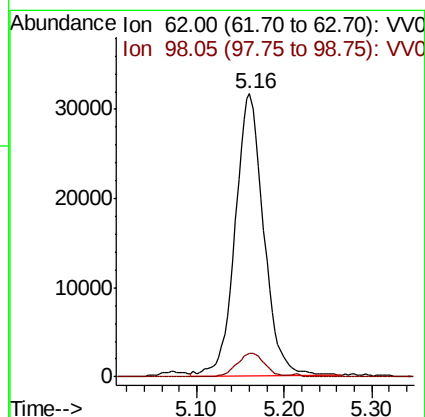
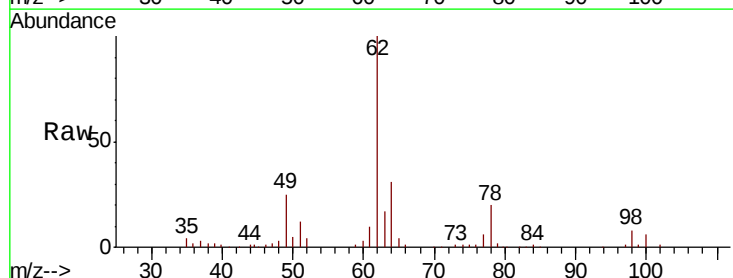
Instrument :  
MSVOA\_V  
ClientSampled :

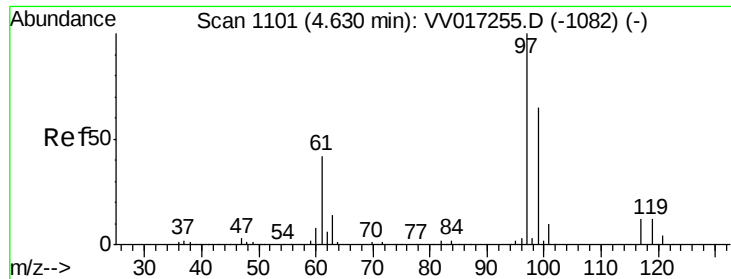
Tot Ion: 83 Resp: 111678  
Ion Ratio Lower Upper  
83 100  
85 64.2 44.2 82.2



#27  
1,2-Dichloroethane  
Concen: 5.677 ug/L  
RT: 5.16 min Scan# 1266  
Delta R.T. 0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Tgt Ion: 62 Resp: 71278  
Ion Ratio Lower Upper  
62 100  
98 8.4 6.7 10.1

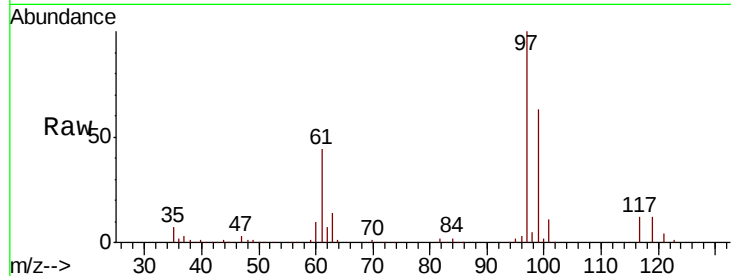




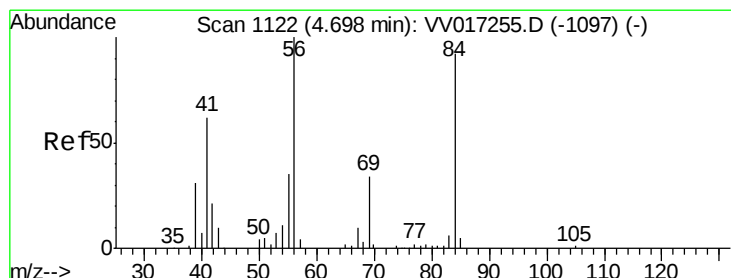
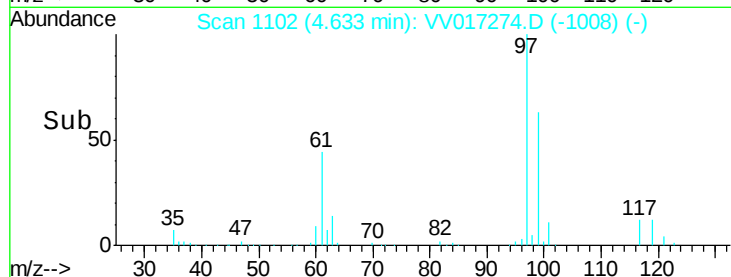
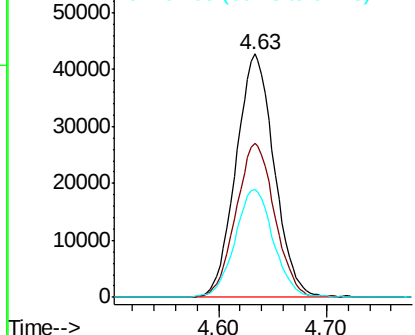
#29  
 1,1,1-Trichloroethane  
 Concen: 5.527 ug/L  
 RT: 4.63 min Scan# 1102  
 Delta R.T. 0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion: 97 Resp: 105383  
 Ion Ratio Lower Upper  
 97 100  
 99 64.2 50.3 75.5  
 61 44.6 36.0 54.0

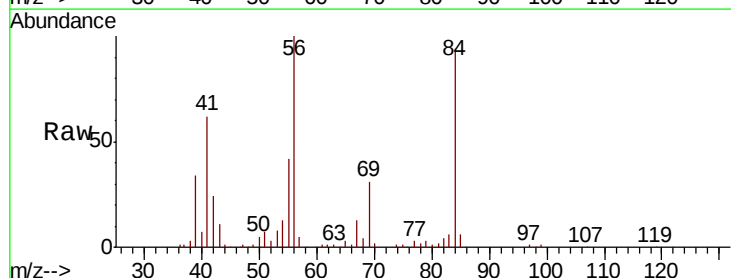


Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 61.05 (60.75 to 61.75): VV0

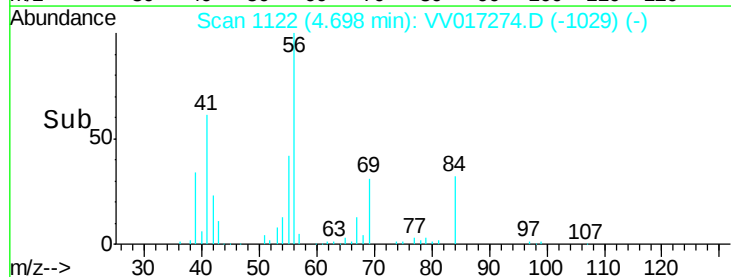
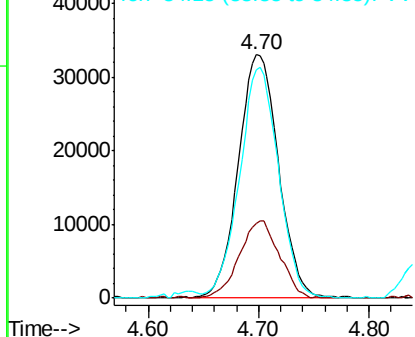


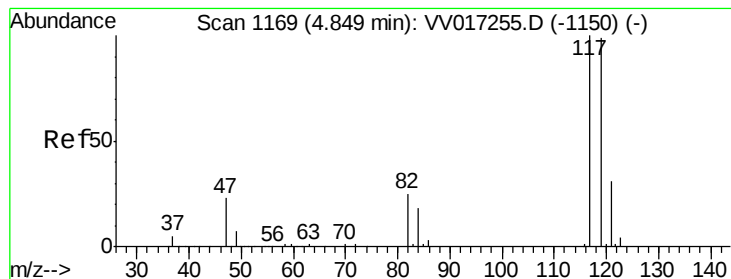
#30  
 Cyclohexane  
 Concen: 4.548 ug/L  
 RT: 4.70 min Scan# 1122  
 Delta R.T. 0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Tgt Ion: 56 Resp: 82517  
 Ion Ratio Lower Upper  
 56 100  
 69 32.0 24.4 36.6  
 84 92.9 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: 5.515 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

Instrument :

MSVOA\_V

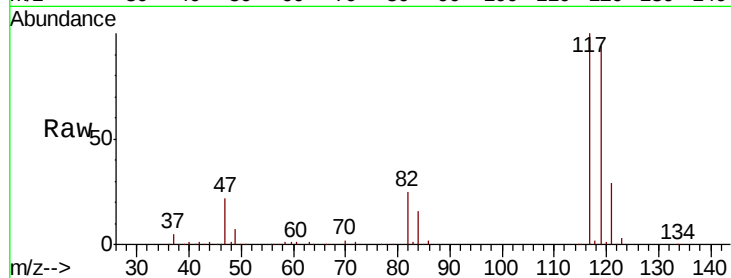
ClientSampleId :

Tot Ion:117 Resp: 94888

Ion Ratio Lower Upper

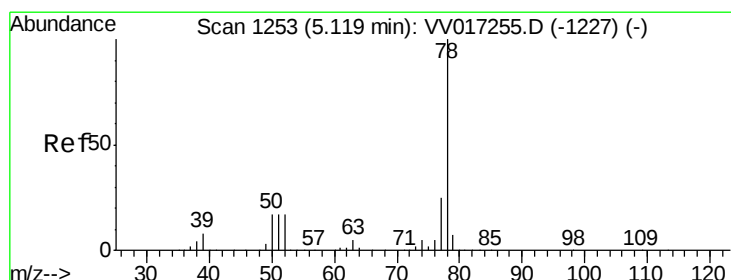
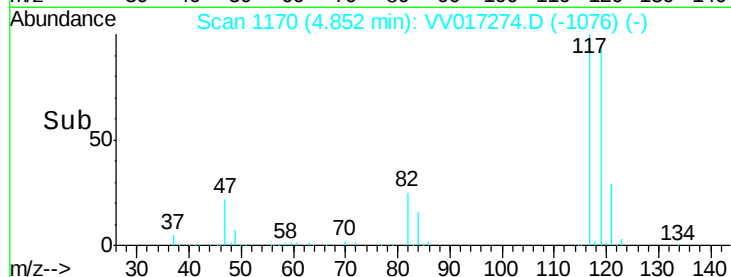
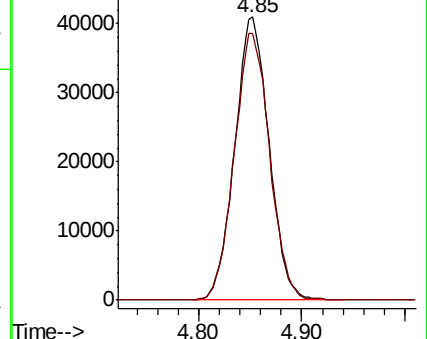
117 100

119 96.7 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.196 ug/L

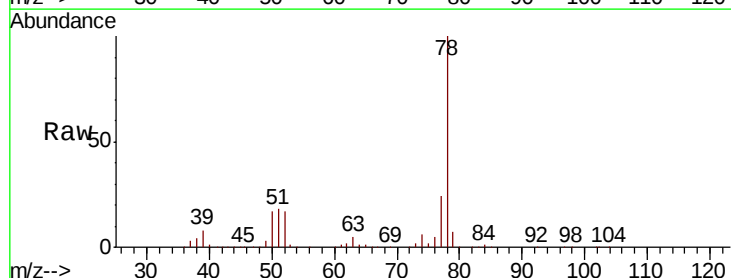
RT: 5.13 min Scan# 1255

Delta R.T. 0.01 min

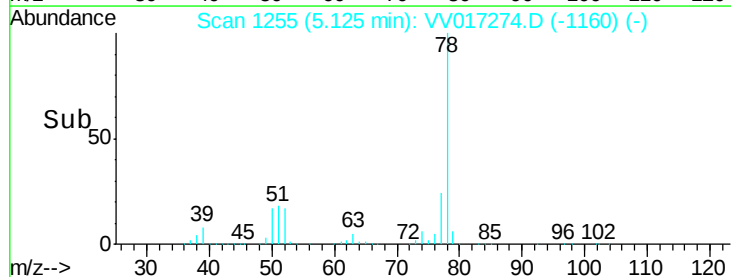
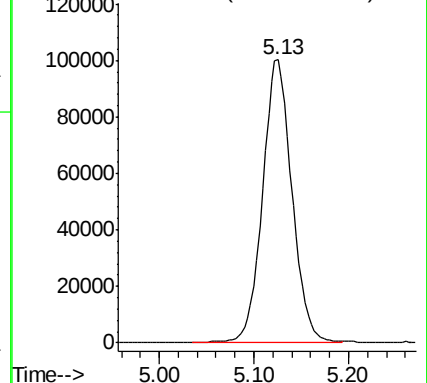
Lab File: VV017274.D

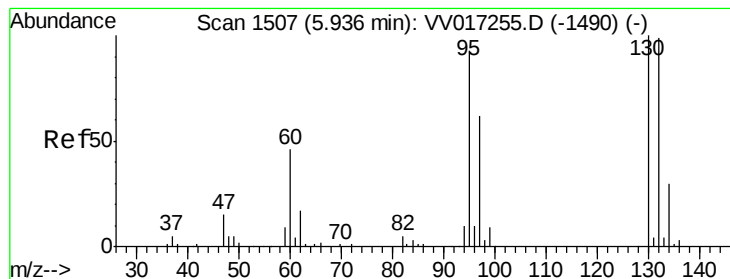
Acq: 30 Jun 2020 22:04

Tgt Ion: 78 Resp: 216585



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.828 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion: 95 Resp: 58924

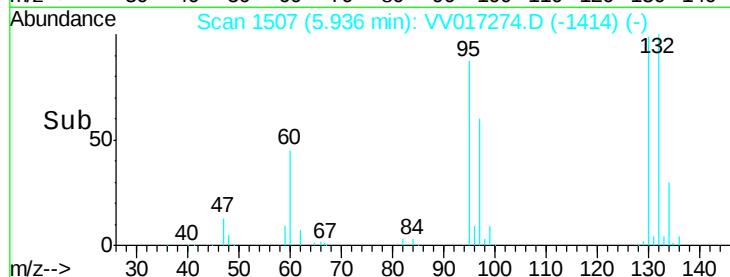
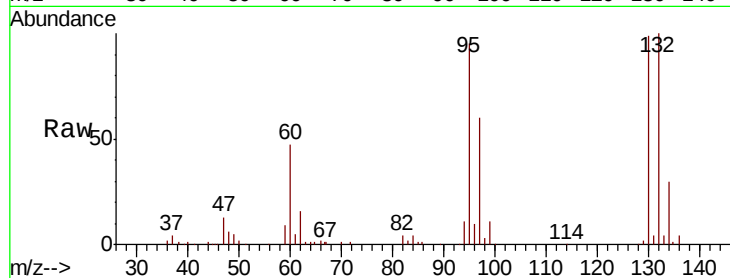
Ion Ratio Lower Upper

95 100

97 63.2 45.3 84.1

132 105.2 68.8 127.8

130 104.3 70.2 130.4

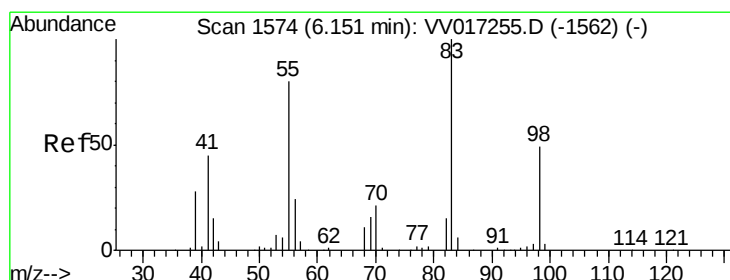
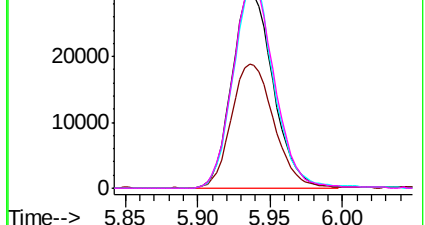


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 4.628 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

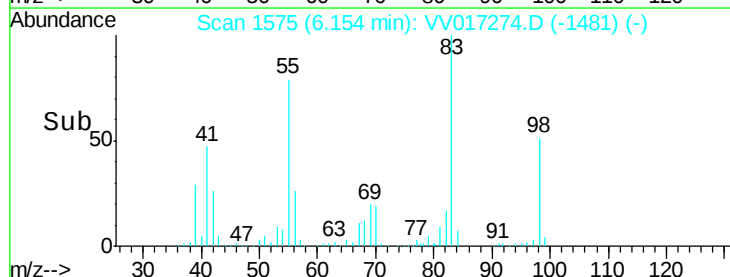
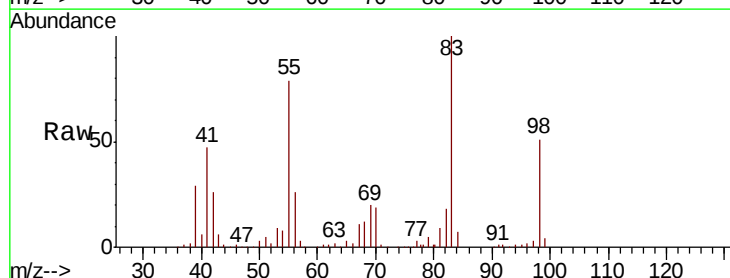
Tgt Ion: 83 Resp: 87804

Ion Ratio Lower Upper

83 100

55 80.5 63.6 95.4

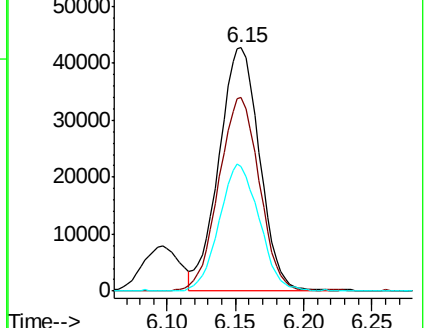
98 51.5 38.8 58.2

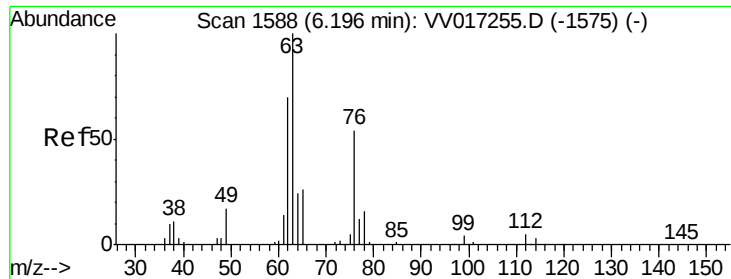


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

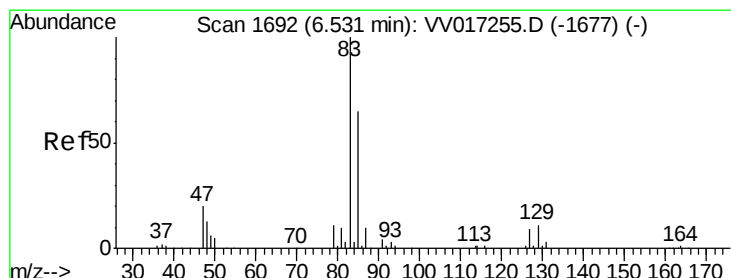
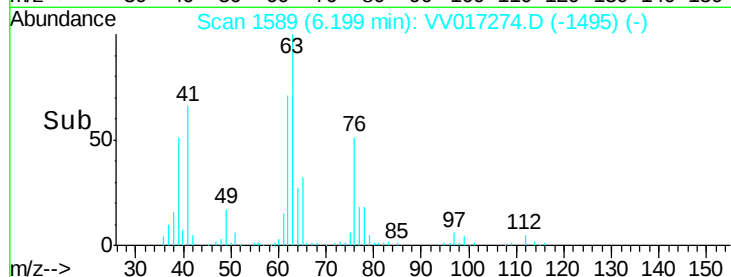
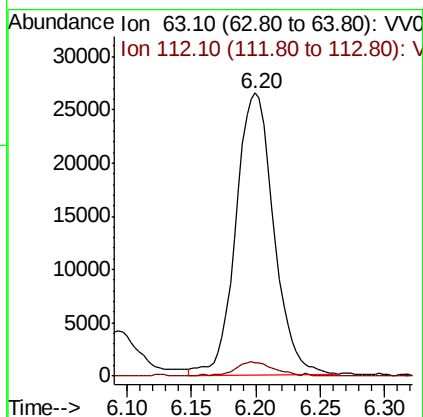
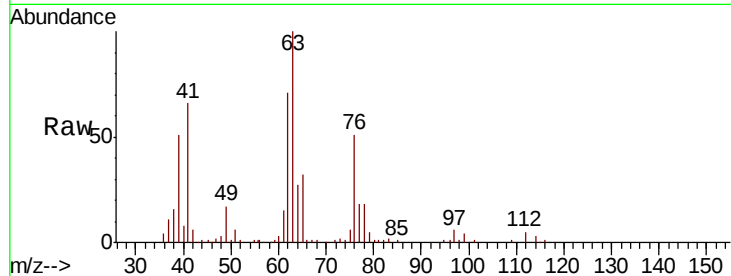




#37  
 1,2-Dichloropropane  
 Concen: 5.230 ug/L  
 RT: 6.20 min Scan# 1589  
 Delta R.T. 0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

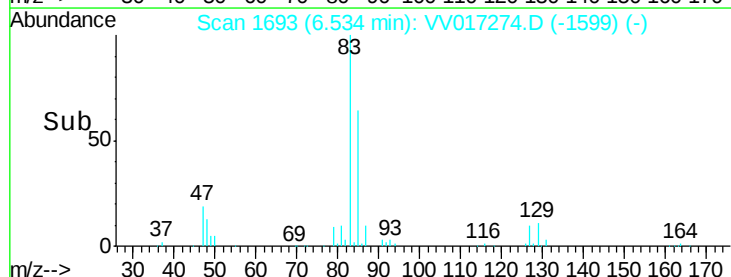
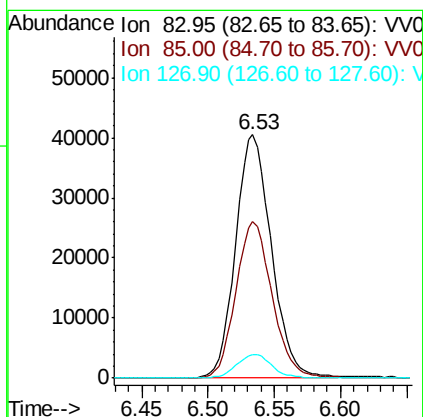
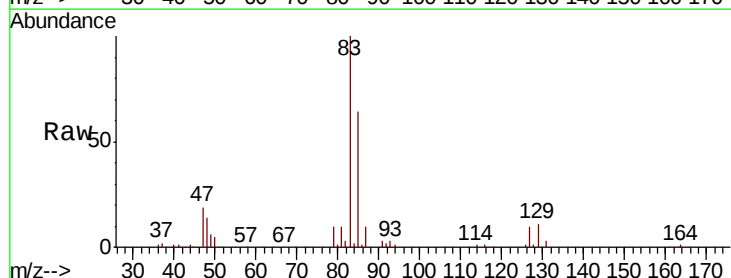
Instrument :  
 MSVOA\_V  
 ClientSampleId :

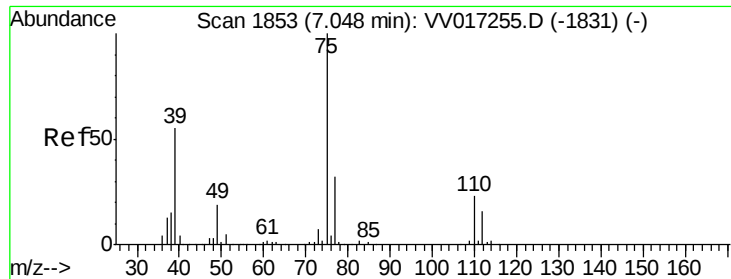
Tot Ion: 63 Resp: 53965  
 Ion Ratio Lower Upper  
 63 100  
 112 5.1 4.4 6.6



#38  
 Bromodichloromethane  
 Concen: 5.431 ug/L  
 RT: 6.53 min Scan# 1693  
 Delta R.T. 0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Tgt Ion: 83 Resp: 76121  
 Ion Ratio Lower Upper  
 83 100  
 85 64.1 43.4 80.6  
 127 9.8 7.9 11.9

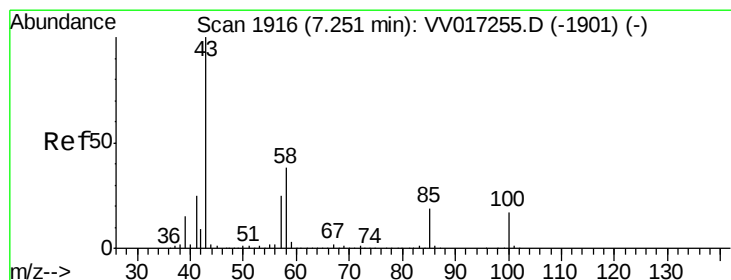
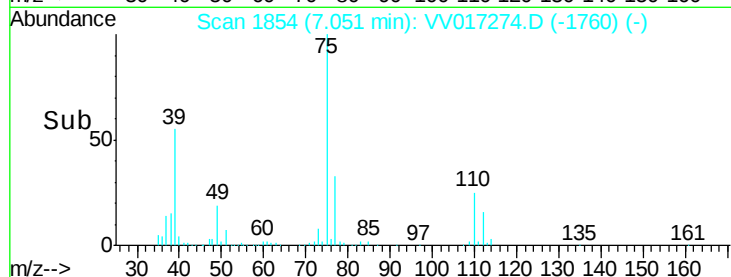
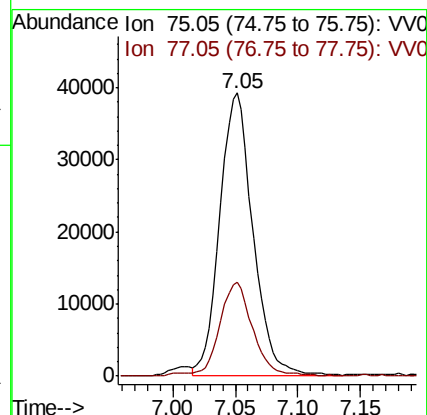
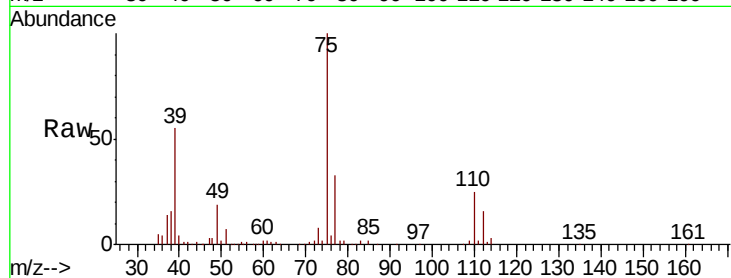




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.683 ug/L  
 RT: 7.05 min Scan# 1854  
 Delta R.T. 0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

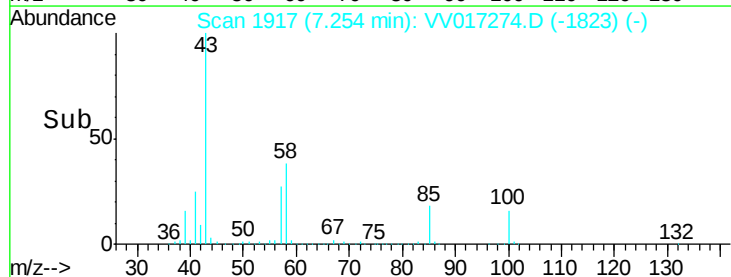
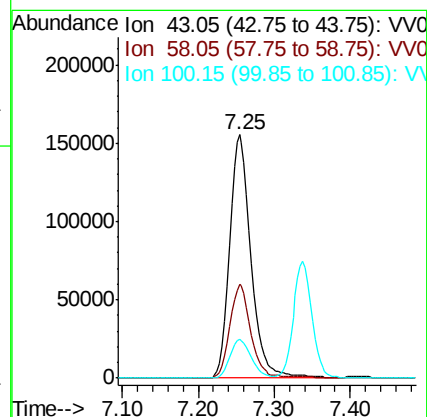
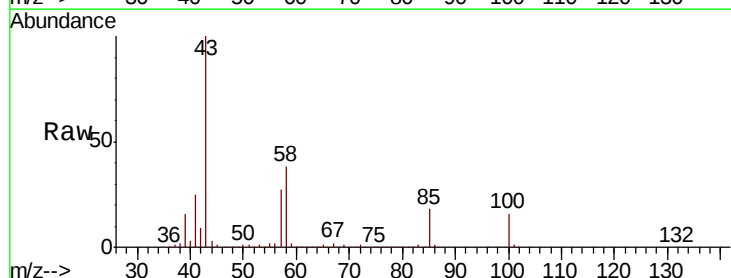
Instrument :  
 MSVOA\_V  
 ClientSampleId :

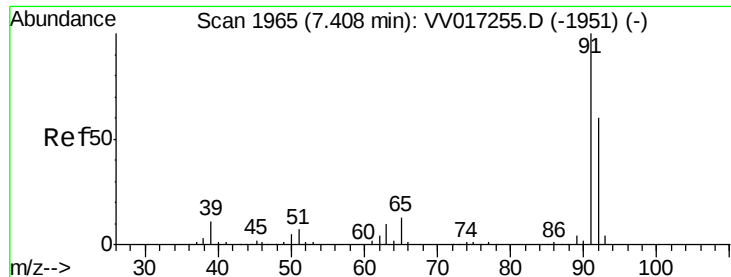
Tot Ion: 75 Resp: 71784  
 Ion Ratio Lower Upper  
 75 100  
 77 33.0 22.3 41.5



#40  
 4-Methyl-2-pentanone  
 Concen: 51.104 ug/L  
 RT: 7.25 min Scan# 1917  
 Delta R.T. 0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Tgt Ion: 43 Resp: 304451  
 Ion Ratio Lower Upper  
 43 100  
 58 37.7 30.4 45.6  
 100 16.1 12.7 19.1





#42

Toluene

Concen: 4.945 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

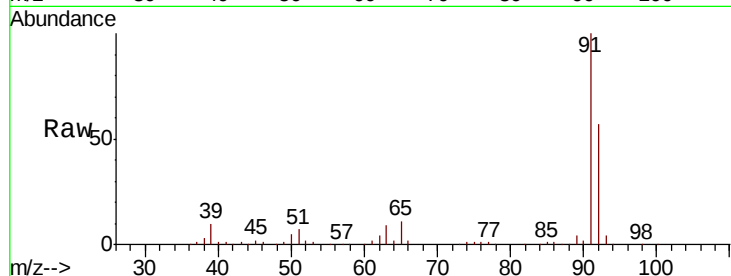
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 239614

Ion Ratio Lower Upper

91 100

92 56.6 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV017255.D (-1951) (-)

Ion 92.15 (91.85 to 92.85): VV017255.D (-1951) (-)

7.41

150000

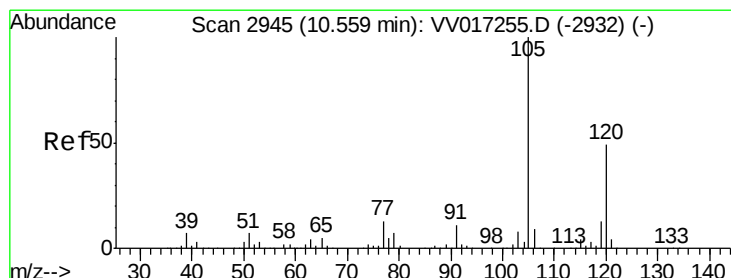
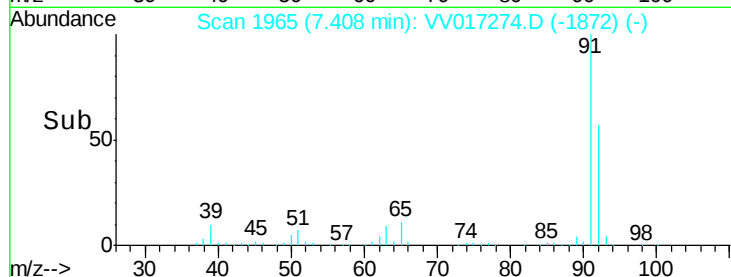
100000

50000

0

7.35 7.40 7.45 7.50

Time-->



#43

1,3,5-Trimethylbenzene

Concen: 5.094 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VV017274.D

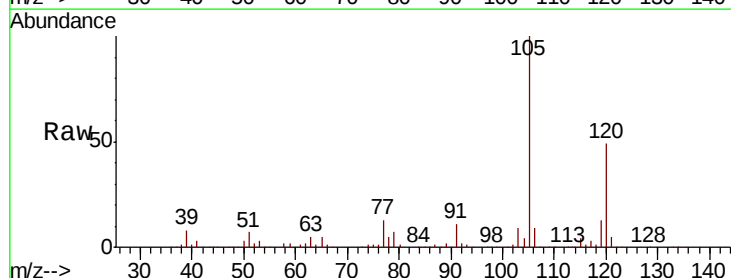
Acq: 30 Jun 2020 22:04

Tgt Ion: 105 Resp: 220732

Ion Ratio Lower Upper

105 100

120 48.3 38.6 57.8



Abundance Ion 105.00 (104.70 to 105.70): VV017255.D (-2932) (-)

Ion 120.00 (119.70 to 120.70): VV017255.D (-2932) (-)

10.56

150000

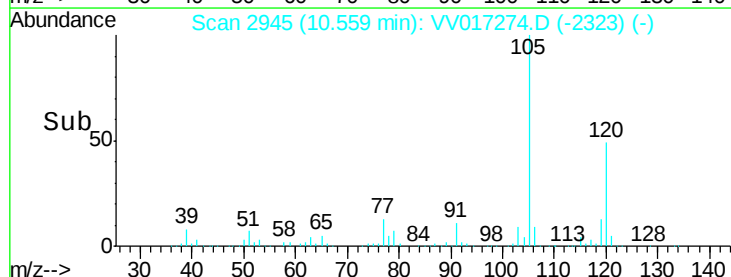
100000

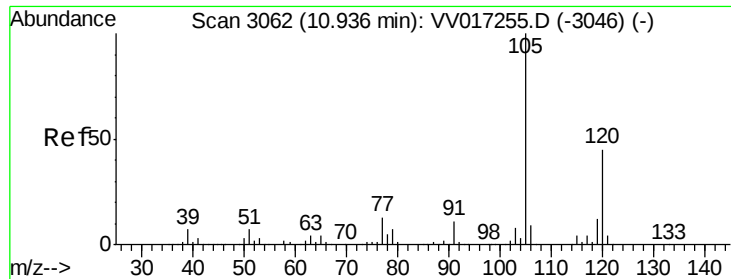
50000

0

10.50 10.55 10.60

Time-->

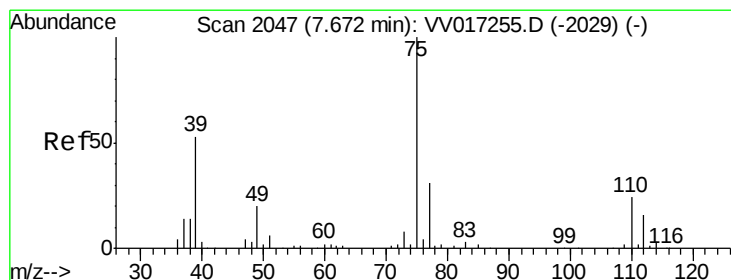
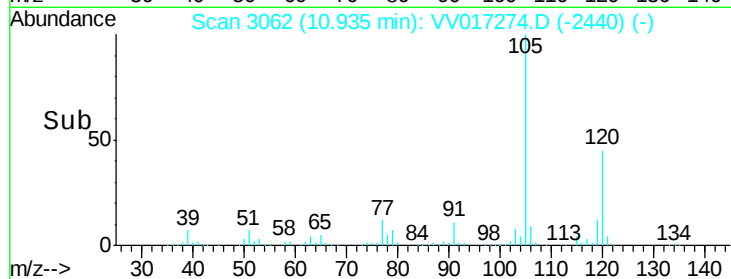
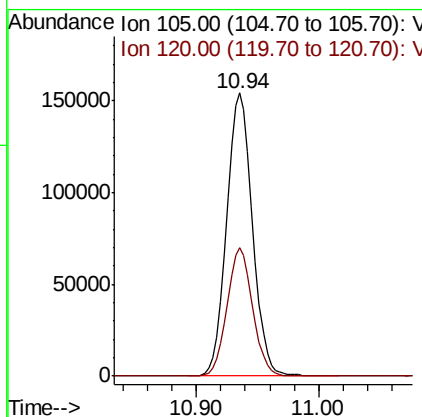
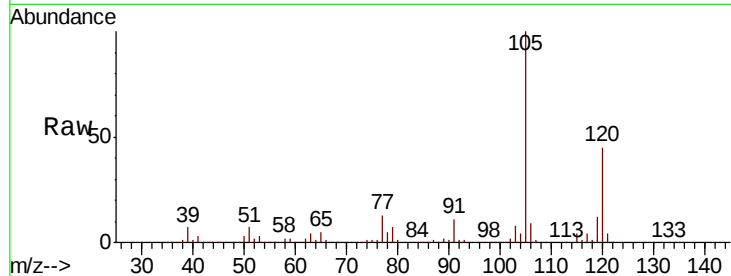




#44  
 1,2,4-Trimethylbenzene  
 Concen: 5.199 ug/L  
 RT: 10.94 min Scan# 3062  
 Delta R.T. -0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

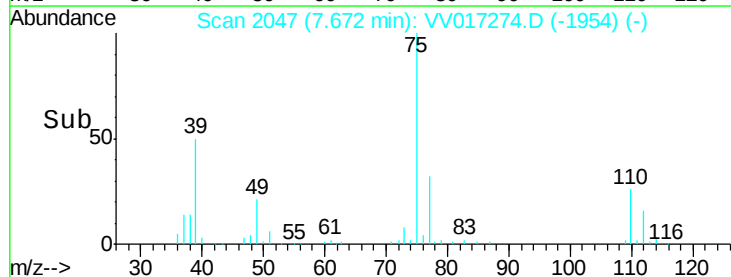
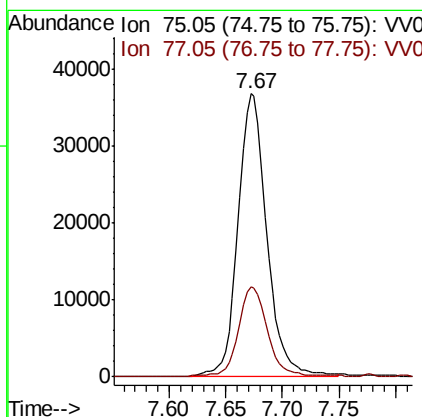
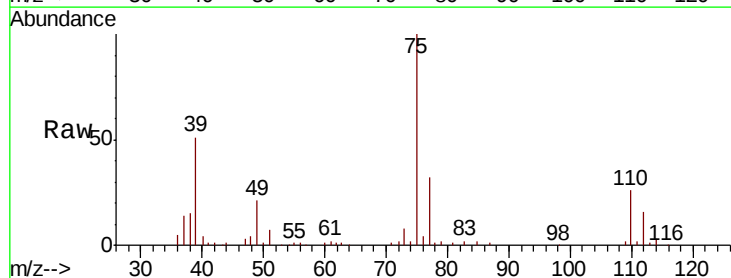
Instrument :  
 MSVOA\_V  
 ClientSampleId :

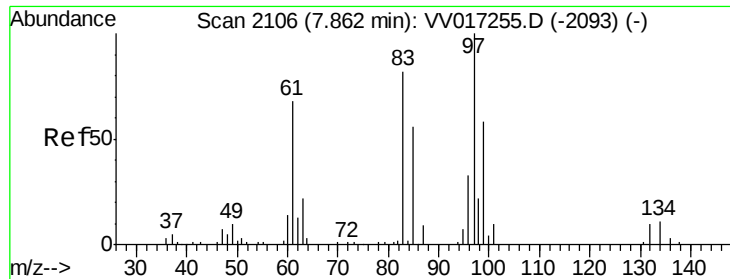
Tot Ion:105 Resp: 229437  
 Ion Ratio Lower Upper  
 105 100  
 120 45.1 35.8 53.8



#46  
 trans-1,3-Dichloropropene  
 Concen: 4.960 ug/L  
 RT: 7.67 min Scan# 2047  
 Delta R.T. -0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Tgt Ion: 75 Resp: 65770  
 Ion Ratio Lower Upper  
 75 100  
 77 31.9 22.3 41.3

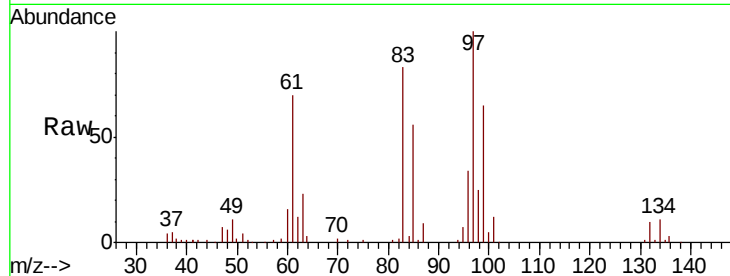




#47  
 1,1,2-Trichloroethane  
 Concen: 5.186 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. -0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Instrument :  
 MSVOA\_V  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 37950 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 65.1  | 43.6  | 81.0  |
| 83       | 83.3  | 57.4  | 106.6 |
| 85       | 56.2  | 38.8  | 72.0  |

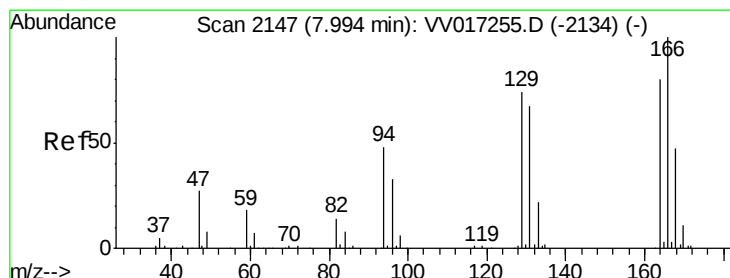
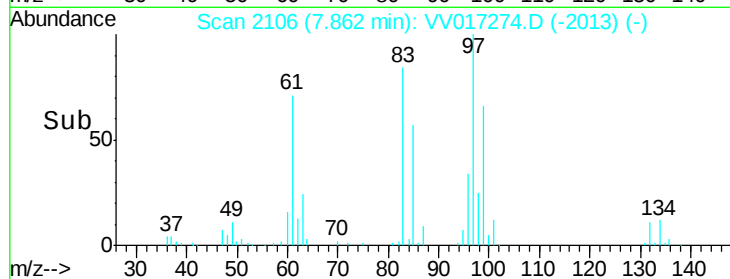
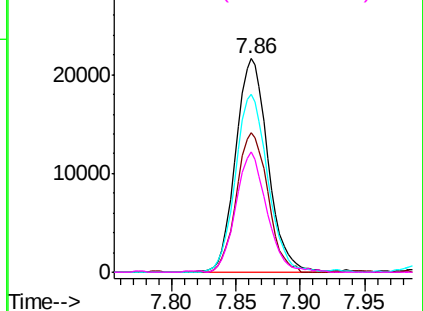


Abundance Ion 96.95 (96.65 to 97.65): VV017274.D (-2013) (-)

Ion 99.05 (98.75 to 99.75): VV017274.D (-2013) (-)

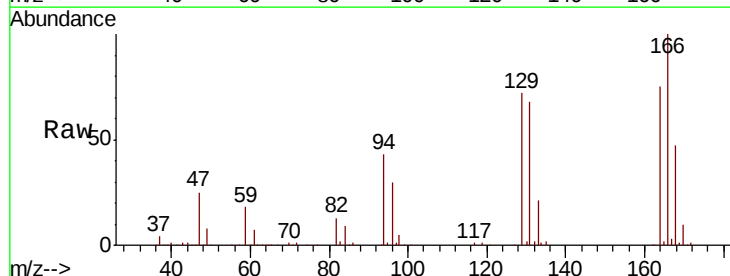
Ion 82.95 (82.65 to 83.65): VV017274.D (-2013) (-)

Ion 85.00 (84.70 to 85.70): VV017274.D (-2013) (-)



#49  
 Tetrachloroethene  
 Concen: 6.017 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. 0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 59114 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 96.7  | 65.2  | 121.0 |
| 131      | 90.8  | 64.1  | 119.1 |
| 166      | 133.9 | 90.2  | 167.4 |

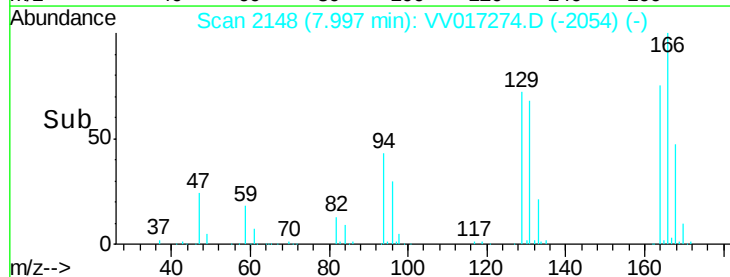
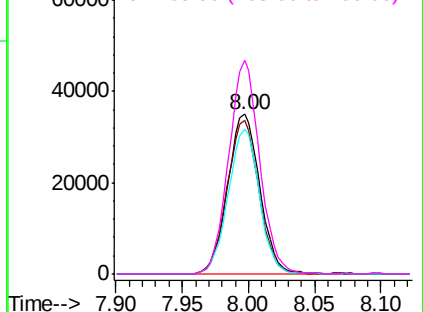


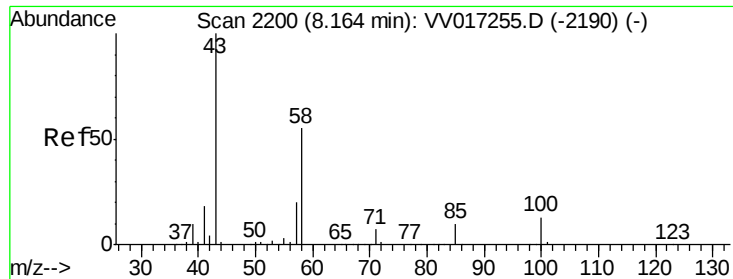
Abundance Ion 163.90 (163.60 to 164.60): VV017274.D (-2054) (-)

Ion 128.95 (128.65 to 129.65): VV017274.D (-2054) (-)

Ion 130.95 (130.65 to 131.65): VV017274.D (-2054) (-)

Ion 165.90 (165.60 to 166.60): VV017274.D (-2054) (-)

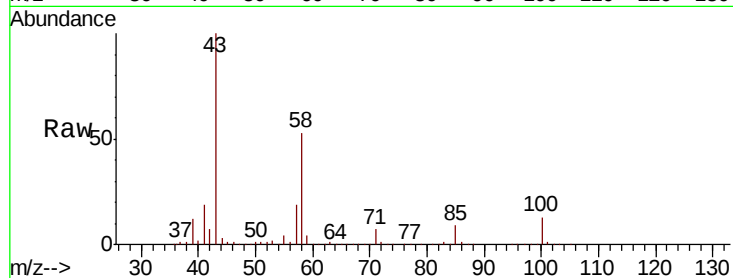




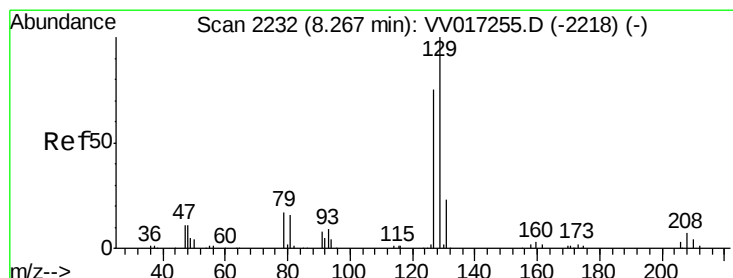
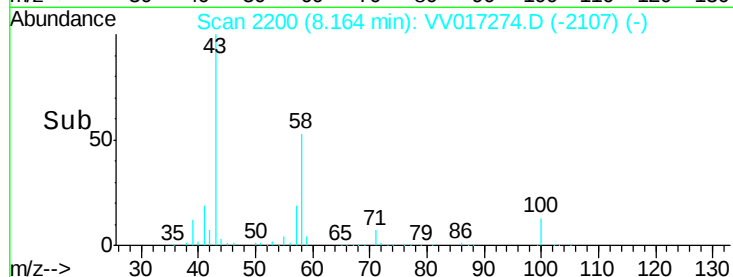
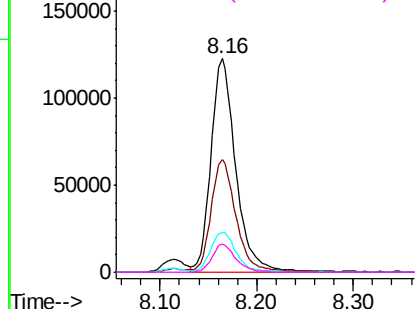
#50  
2-Hexanone  
Concen: 51.195 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. 0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 217049  
Ion Ratio Lower Upper  
43 100  
58 51.9 41.6 62.4  
57 19.4 15.4 23.0  
100 12.9 10.1 15.1

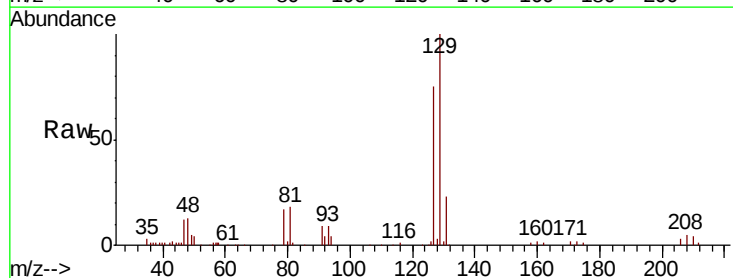


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

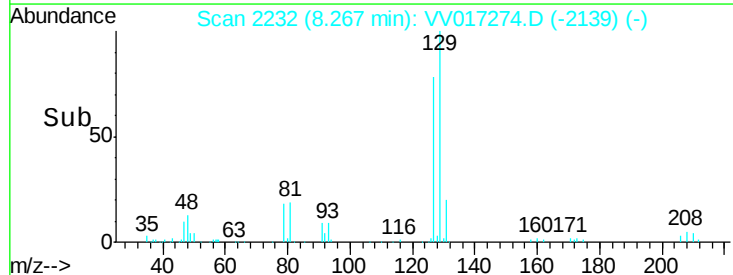
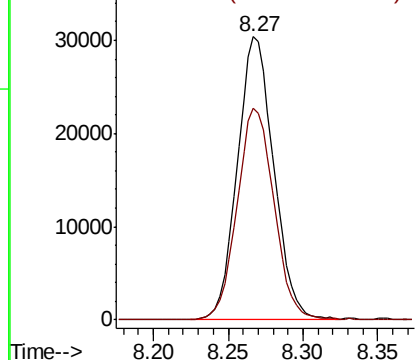


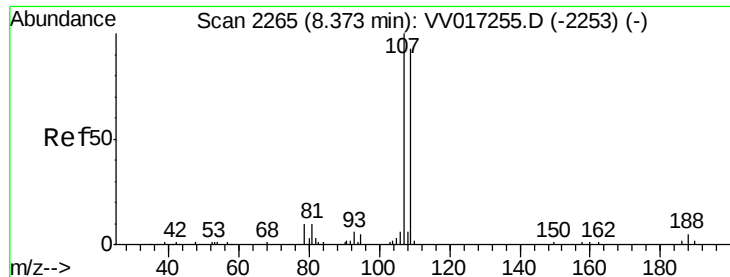
#51  
Dibromochloromethane  
Concen: 5.794 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Tgt Ion: 129 Resp: 51398  
Ion Ratio Lower Upper  
129 100  
127 74.6 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: 5.079 ug/L

RT: 8.37 min Scan# 2265

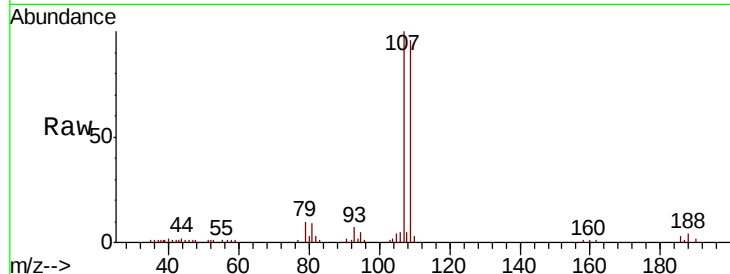
Delta R.T. -0.00 min

Lab File: VV017274.D

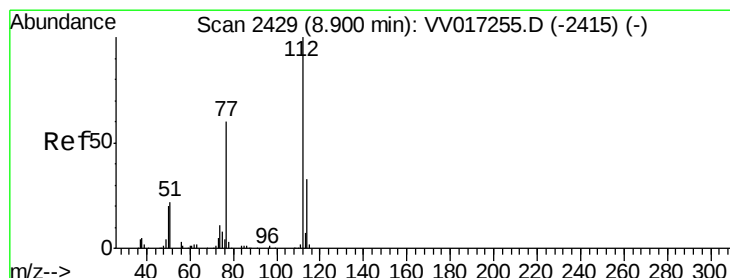
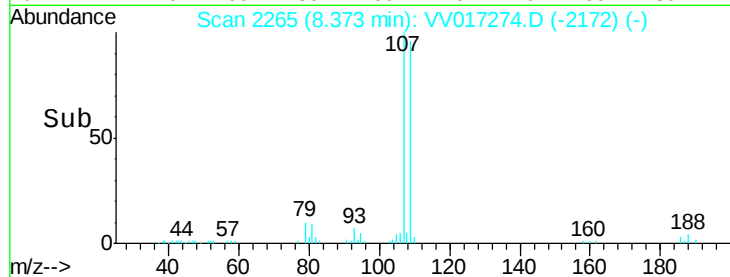
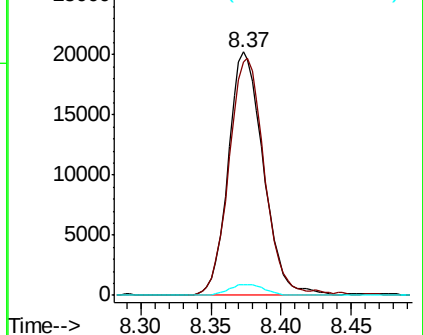
Acq: 30 Jun 2020 22:04

Instrument :  
MSVOA\_V  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 107   | Resp: | 35249 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 95.9  | 69.4  | 128.8 |
| 188      | 4.3   | 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: 5.119 ug/L

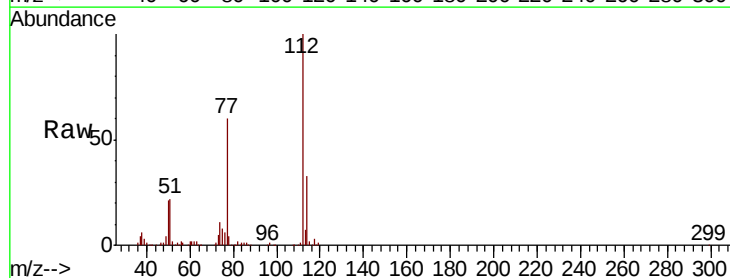
RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

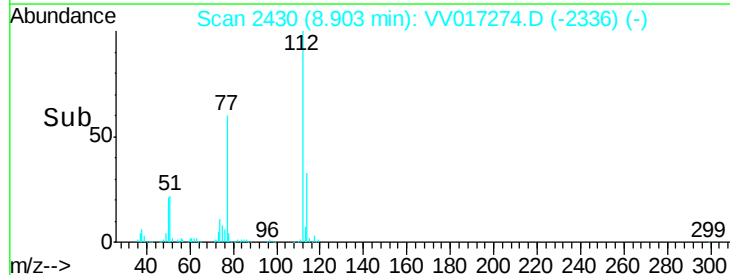
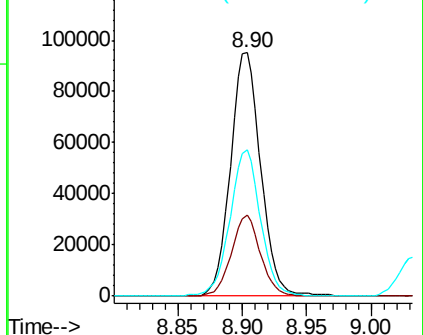
Lab File: VV017274.D

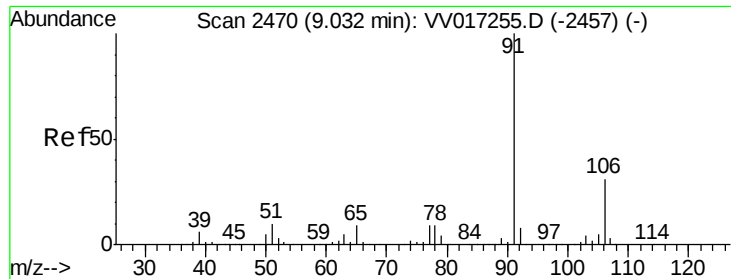
Acq: 30 Jun 2020 22:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 154655 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 33.0  | 22.0  | 41.0   |
| 77       | 59.9  | 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): V

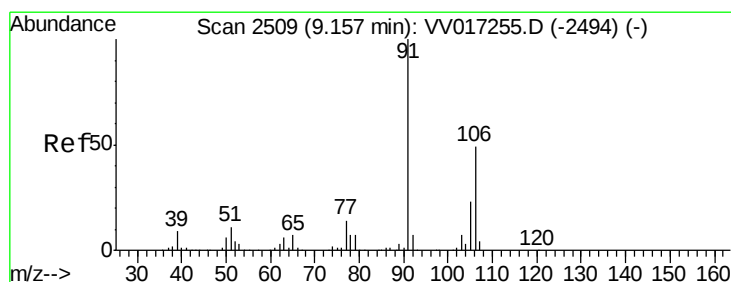
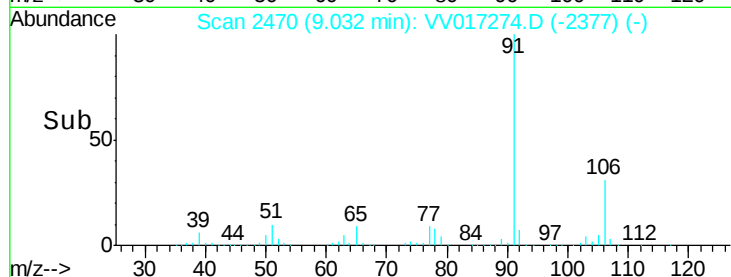
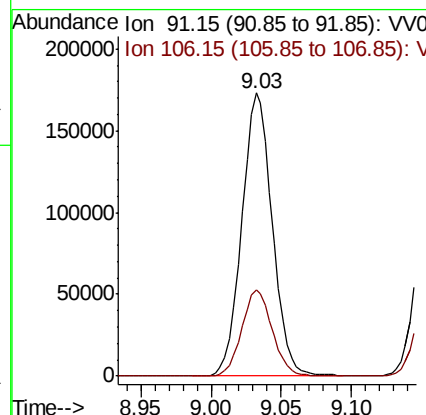
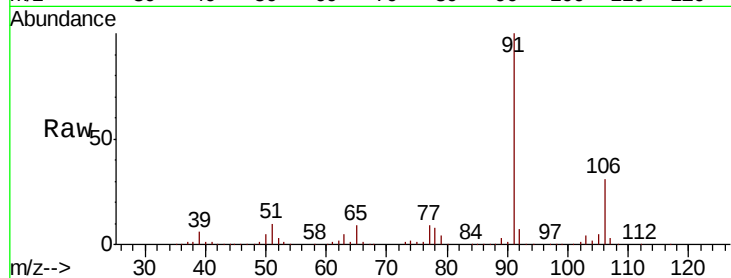




#54  
Ethylbenzene  
Concen: 5.062 ug/L  
RT: 9.03 min Scan# 2470  
Delta R.T. -0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

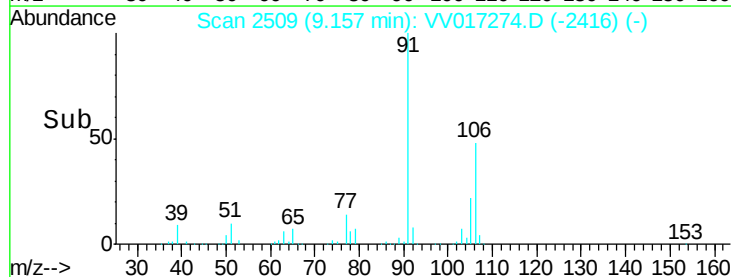
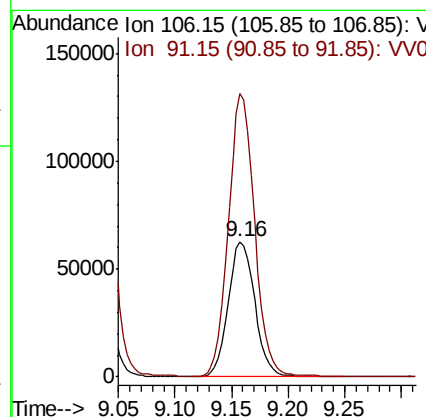
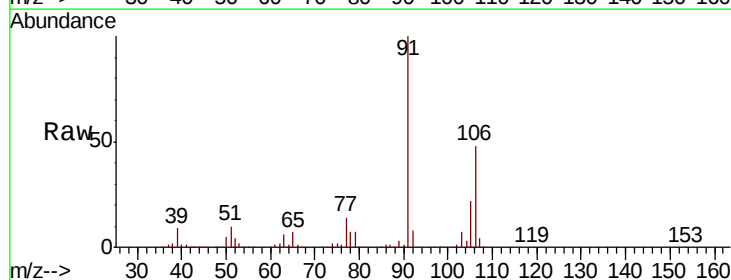
Instrument :  
MSVOA\_V  
ClientSampleId :

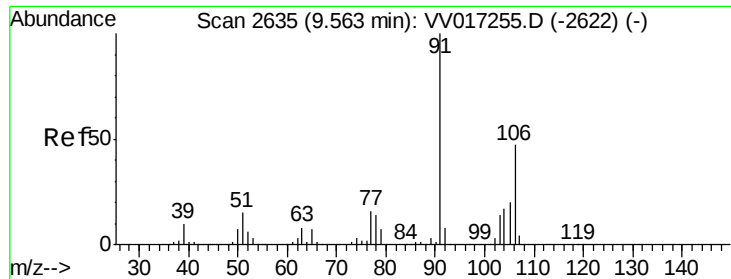
Tot Ion: 91 Resp: 261847  
Ion Ratio Lower Upper  
91 100  
106 30.7 21.1 39.1



#55  
m,p-xylene  
Concen: 5.056 ug/L  
RT: 9.16 min Scan# 2509  
Delta R.T. -0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Tgt Ion: 106 Resp: 102579  
Ion Ratio Lower Upper  
106 100  
91 209.1 142.7 264.9

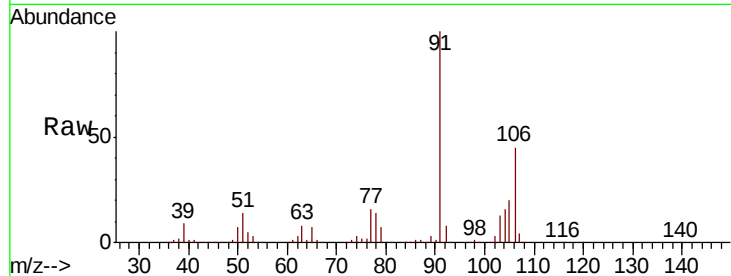




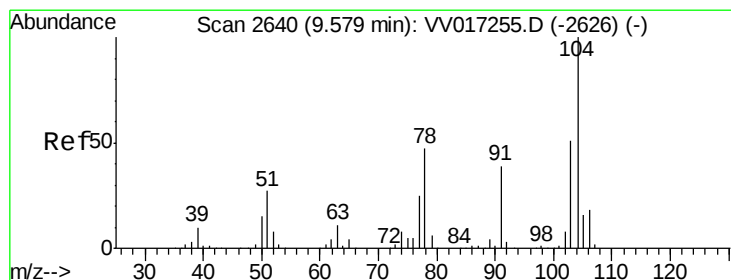
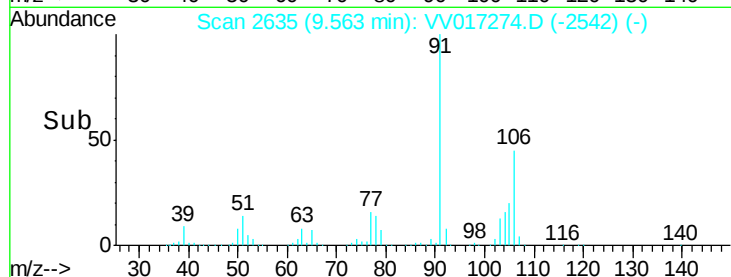
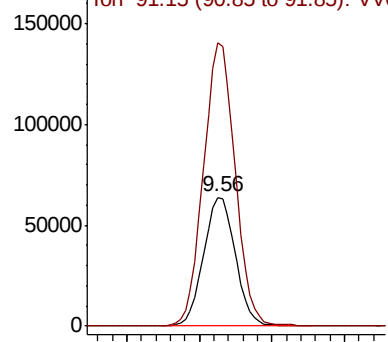
#56  
o-xylene  
Concen: 5.136 ug/L  
RT: 9.56 min Scan# 2635  
Delta R.T. -0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:106 Resp: 97244  
Ion Ratio Lower Upper  
106 100  
91 220.3 153.6 285.2

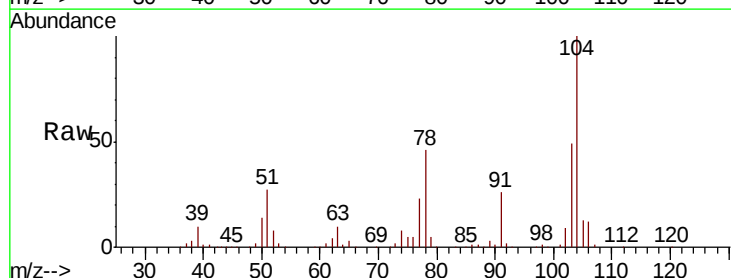


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

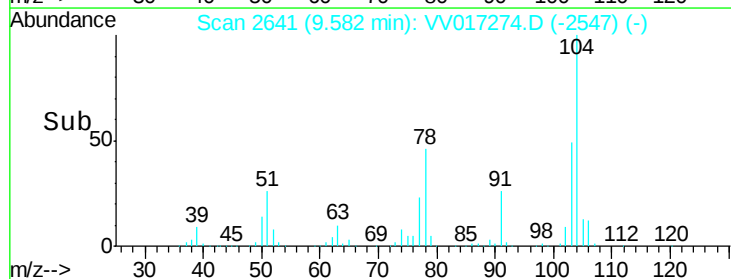
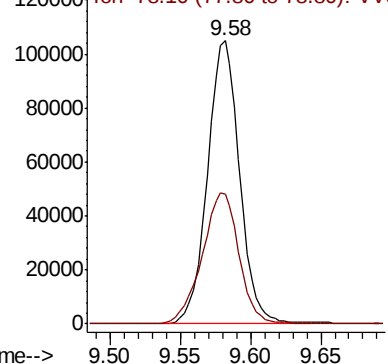


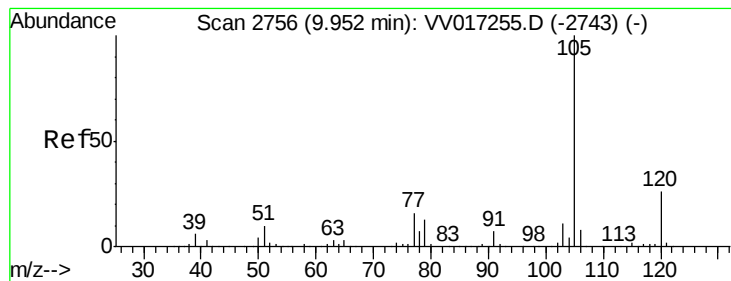
#57  
Styrene  
Concen: 5.336 ug/L  
RT: 9.58 min Scan# 2641  
Delta R.T. 0.00 min  
Lab File: VV017274.D  
Acq: 30 Jun 2020 22:04

Tgt Ion:104 Resp: 167401  
Ion Ratio Lower Upper  
104 100  
78 46.0 33.9 62.9



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





#58

Isopropylbenzene

Concen: 5.147 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

Instrument :

MSVOA\_V

ClientSampleId :

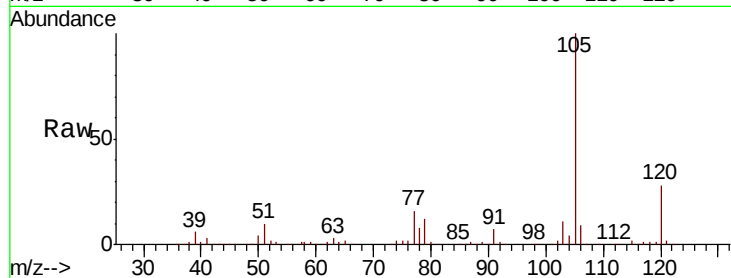
Tot Ion:105 Resp: 268170

Ion Ratio Lower Upper

105 100

120 27.3 21.2 31.8

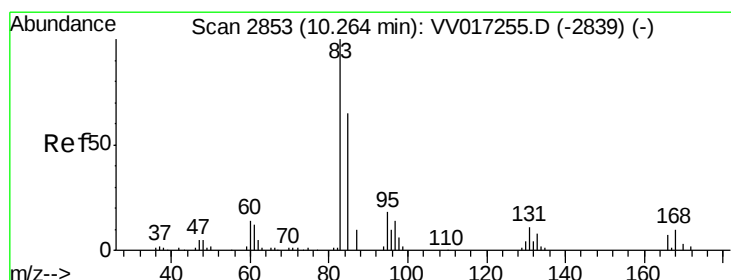
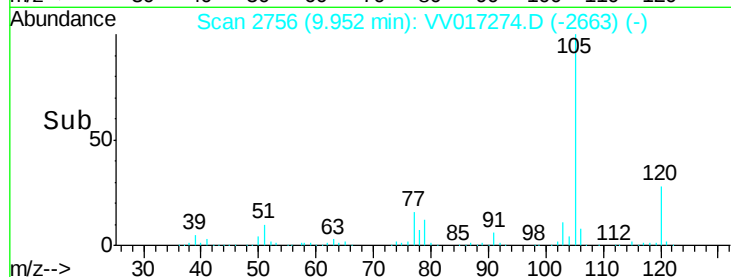
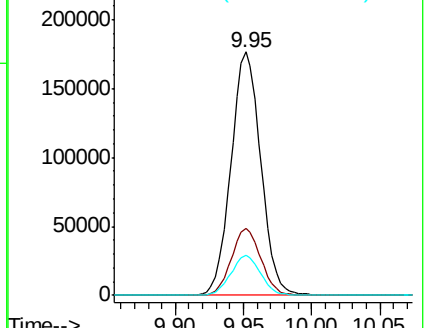
77 16.4 13.0 19.4



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: 5.636 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

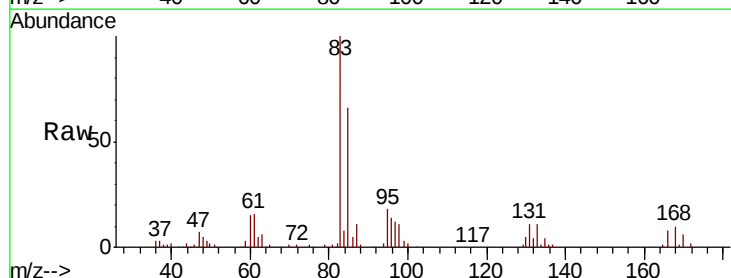
Tgt Ion: 83 Resp: 42661

Ion Ratio Lower Upper

83 100

85 65.9 42.9 79.7

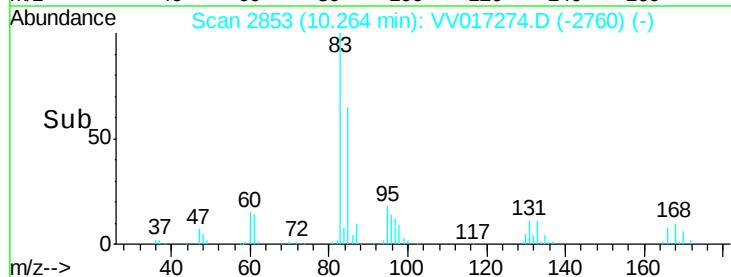
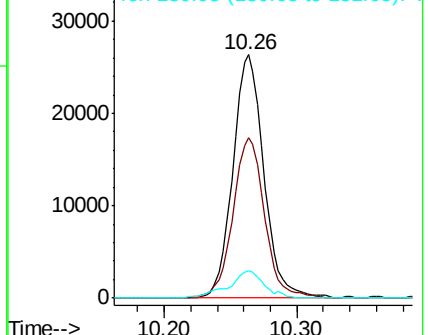
131 11.3 8.6 13.0

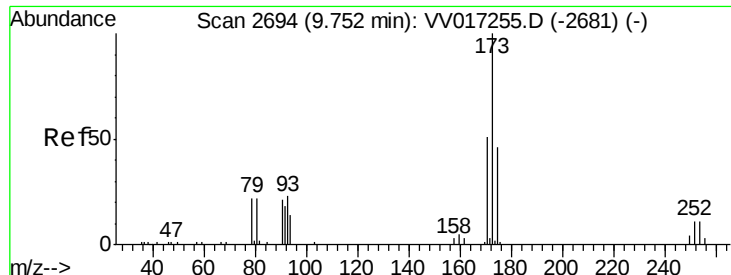


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#62

Bromoform

Concen: 6.375 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

Instrument :  
MSVOA\_V  
ClientSampleId :

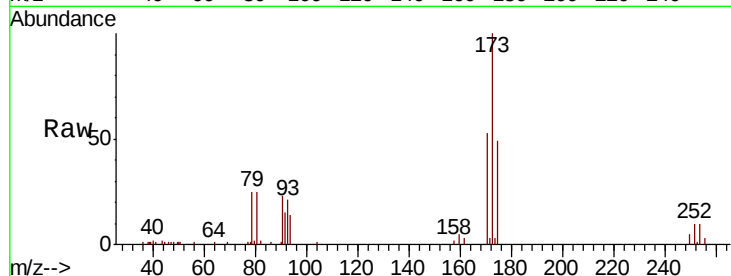
Tot Ion:173 Resp: 28216

Ion Ratio Lower Upper

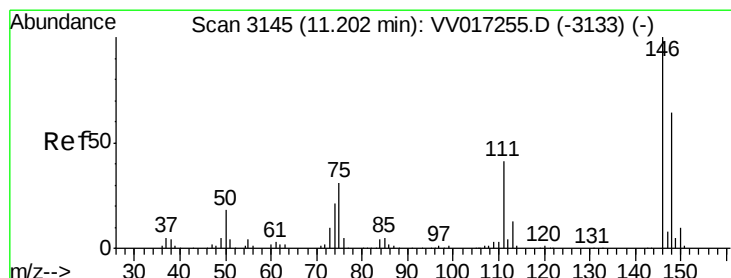
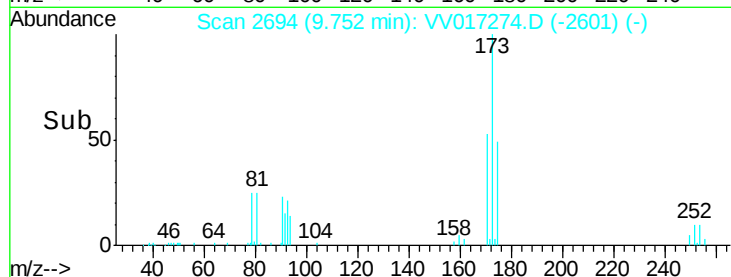
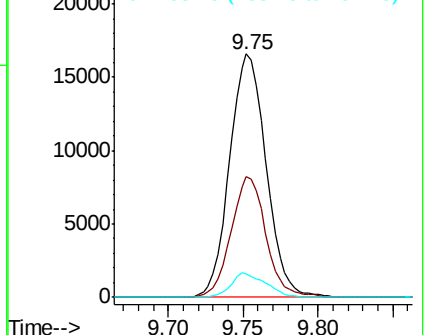
173 100

175 47.1 39.4 59.2

254 9.5 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: 5.256 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

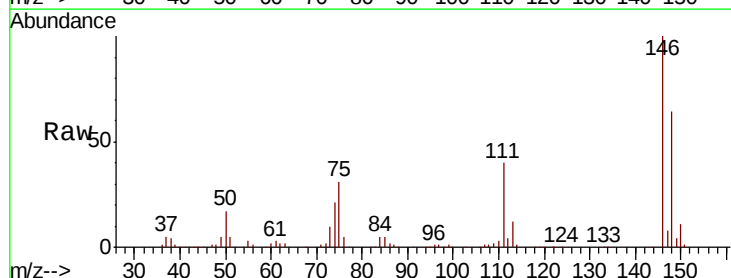
Tgt Ion:146 Resp: 130904

Ion Ratio Lower Upper

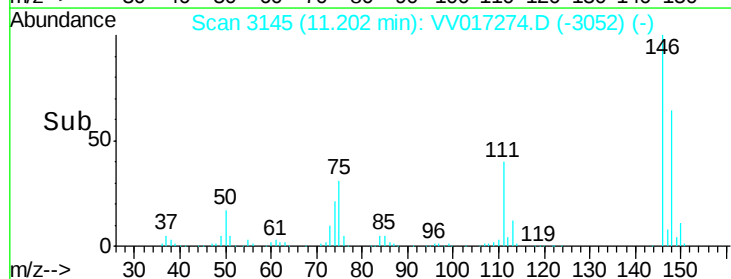
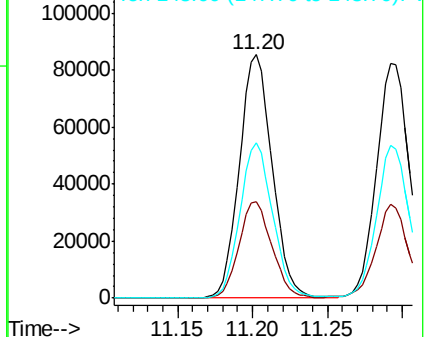
146 100

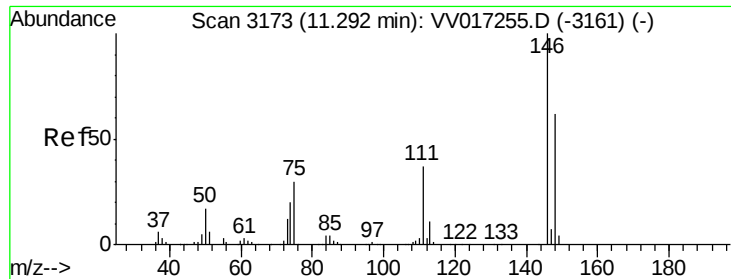
111 39.6 29.2 54.2

148 63.6 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: 5.032 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

Instrument :

MSVOA\_V

ClientSampled :

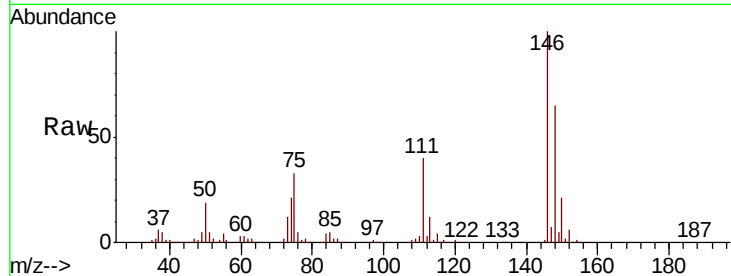
Tot Ion:146 Resp: 127369

Ion Ratio Lower Upper

146 100

111 40.0 27.4 50.8

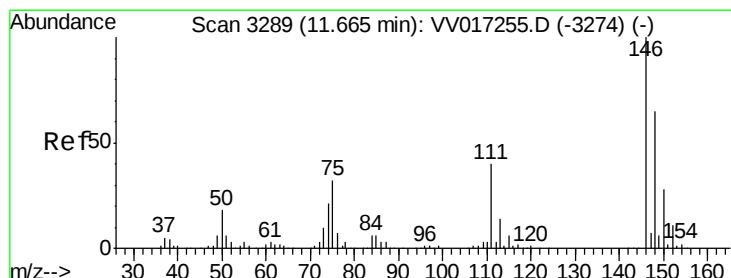
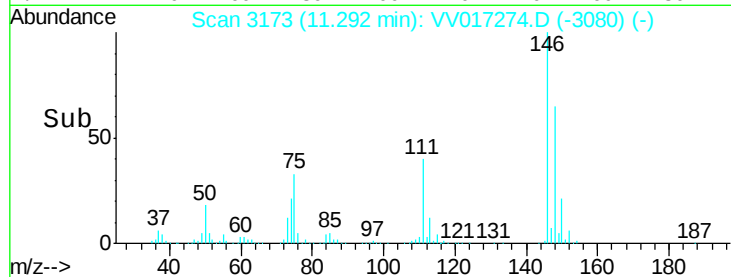
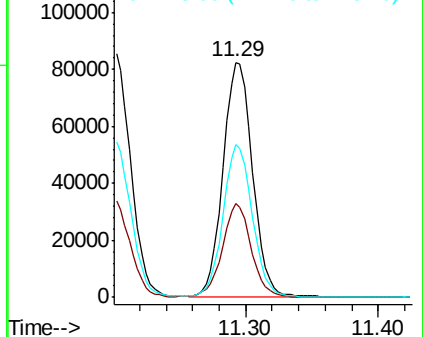
148 64.8 44.3 82.3



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: 5.293 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV017274.D

Acq: 30 Jun 2020 22:04

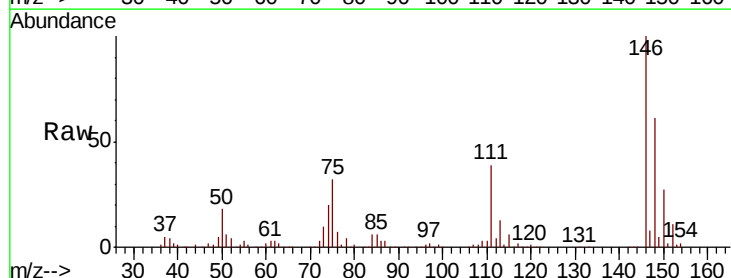
Tgt Ion:146 Resp: 119636

Ion Ratio Lower Upper

146 100

111 39.4 34.4 51.6

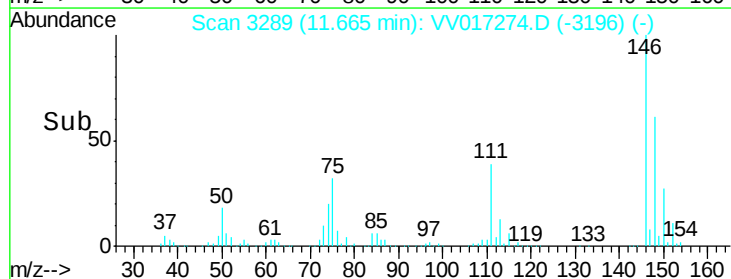
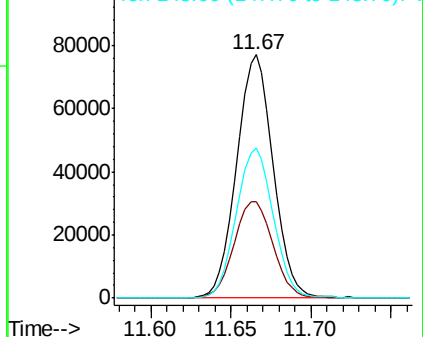
148 61.5 49.9 74.9

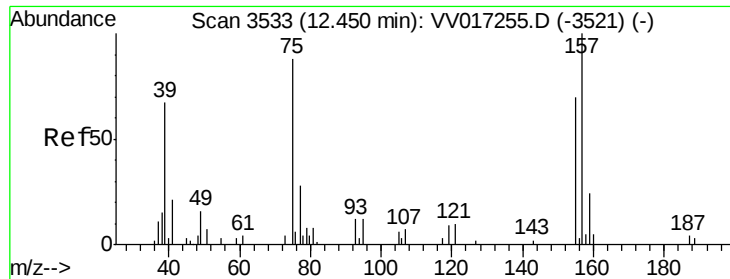


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

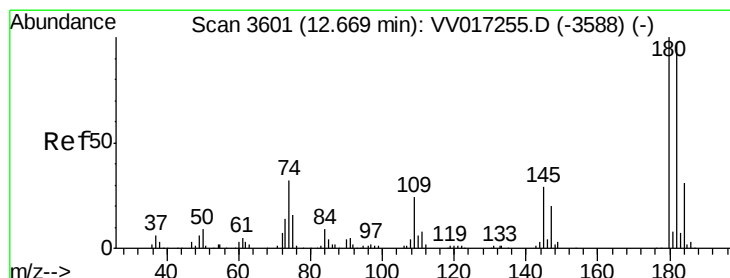
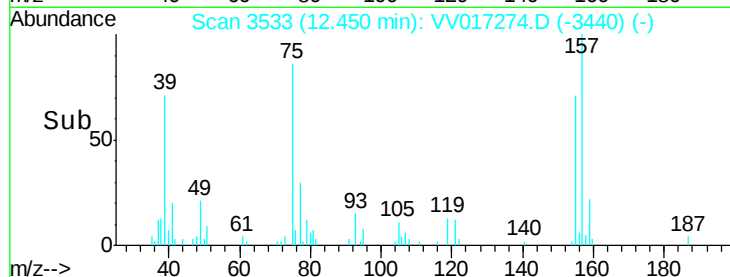
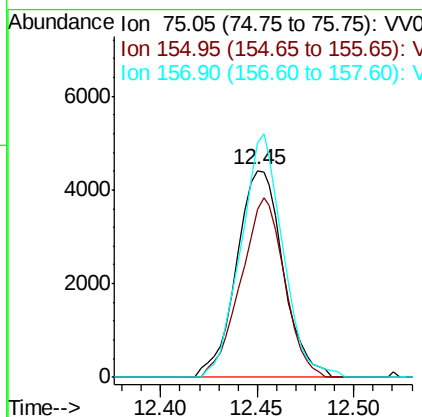
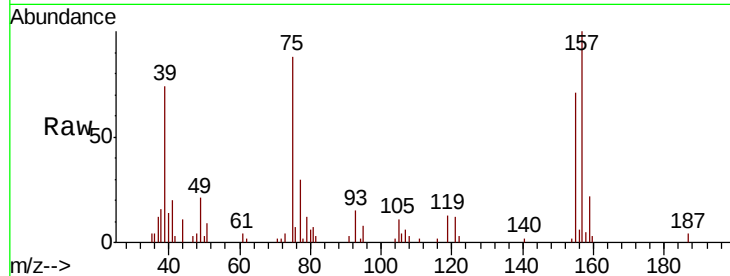




#67  
 1,2-Dibromo-3-chloropropane  
 Concen: 5.892 ug/L  
 RT: 12.45 min Scan# 3533  
 Delta R.T. 0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

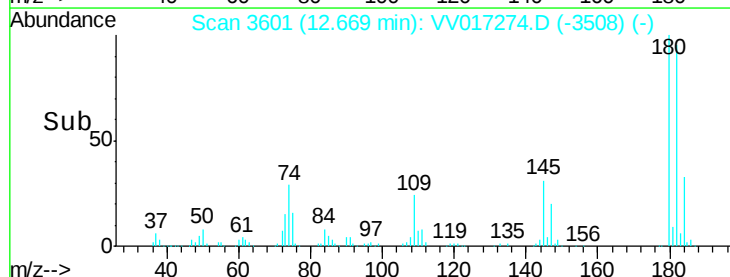
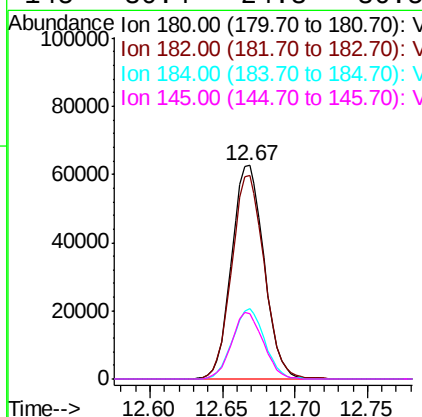
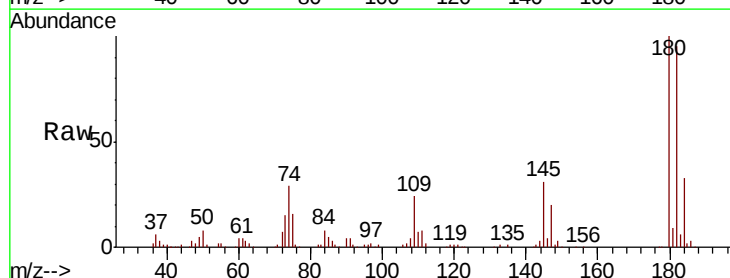
Instrument :  
 MSVOA\_V  
 ClientSampleId :

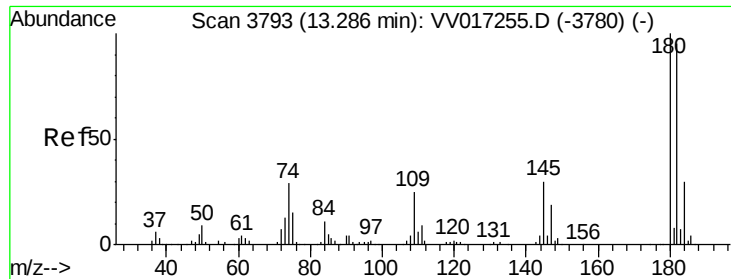
Tot Ion: 75 Resp: 7366  
 Ion Ratio Lower Upper  
 75 100  
 155 81.1 71.1 106.7  
 157 113.8 88.3 132.5



#68  
 1,3,5-Trichlorobenzene  
 Concen: 4.872 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. -0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Tgt Ion: 180 Resp: 97497  
 Ion Ratio Lower Upper  
 180 100  
 182 95.5 77.4 116.2  
 184 32.5 24.2 36.4  
 145 30.4 24.3 36.5

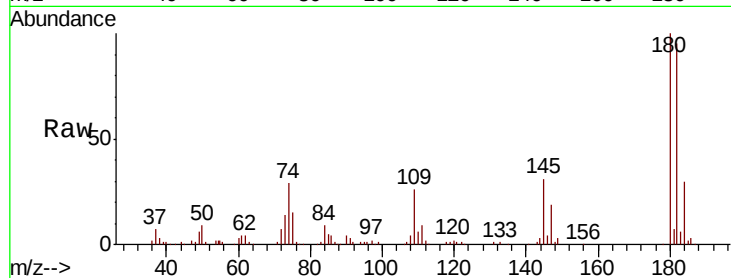




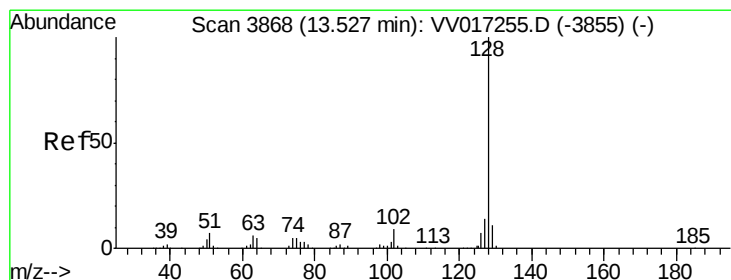
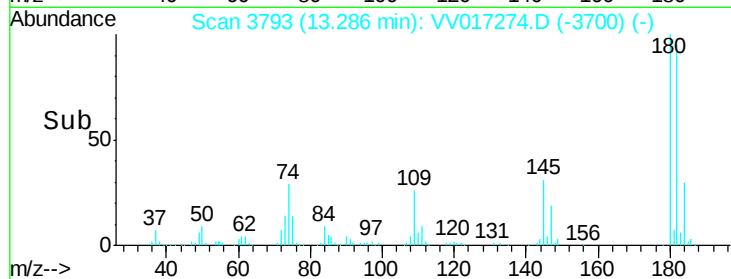
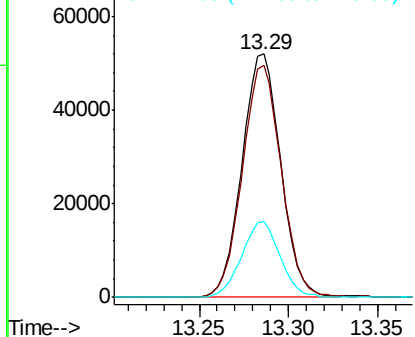
#69  
 1,2,4-trichlorobenzene  
 Concen: 4.801 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. -0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion:180 Resp: 79085  
 Ion Ratio Lower Upper  
 180 100  
 182 96.4 76.6 114.8  
 145 30.9 25.0 37.6

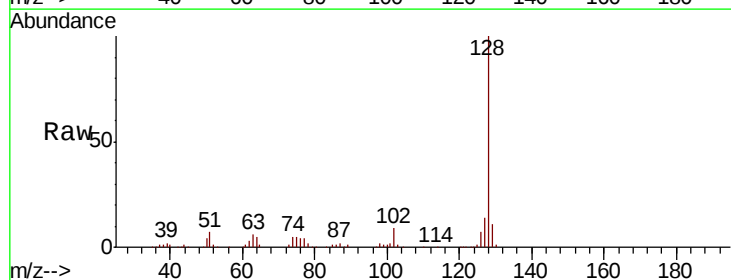


Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V

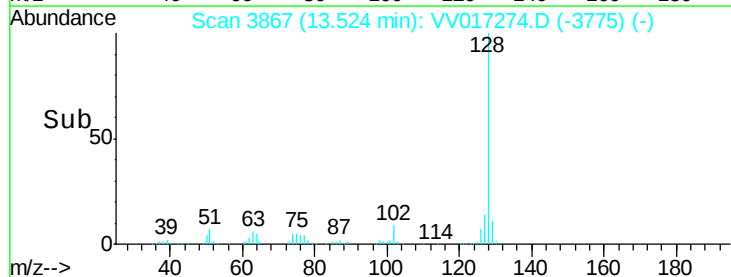
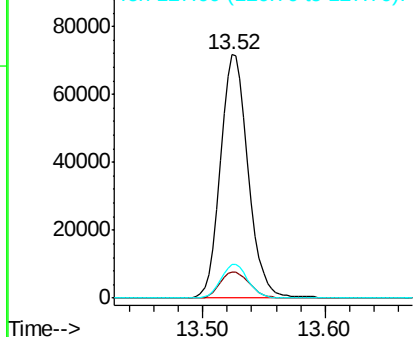


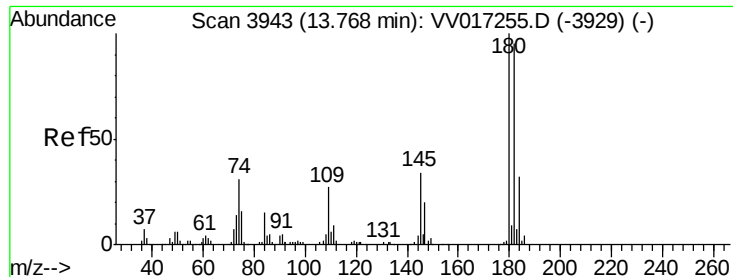
#70  
 Naphthalene  
 Concen: 4.943 ug/L  
 RT: 13.52 min Scan# 3867  
 Delta R.T. -0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Tgt Ion:128 Resp: 114989  
 Ion Ratio Lower Upper  
 128 100  
 129 11.5 8.8 13.2  
 127 13.8 10.5 15.7



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

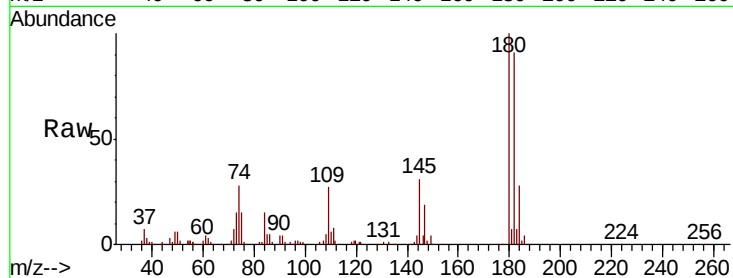




#71  
 1,2,3-Trichlorobenzene  
 Concen: 5.304 ug/L  
 RT: 13.76 min Scan# 3942  
 Delta R.T. -0.00 min  
 Lab File: VV017274.D  
 Acq: 30 Jun 2020 22:04

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion:180 Resp: 71261  
 Ion Ratio Lower Upper  
 180 100  
 182 95.0 77.4 116.0  
 145 32.3 25.9 38.9



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 181.90 (181.60 to 182.60): V  
 Ion 144.95 (144.65 to 145.65): V

