

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042120\  
 Data File : VV015614.D  
 Acq On : 21 Apr 2020 20:34  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 22 00:17:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Apr 22 00:11:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 137280   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 133079   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 68509    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 37511    | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 105.20% |
| 7) Chloroethane-d5             | 1.58   | 69    | 35066    | 5.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 107.00% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 82320    | 5.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 109.80% |
| 20) 2-Butanone-d5              | 3.94   | 46    | 117034   | 58.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 117.04% |
| 24) Chloroform-d               | 4.38   | 84    | 84922    | 5.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 107.60% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 46540    | 5.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 109.40% |
| 32) Benzene-d6                 | 5.08   | 84    | 156310   | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.80% |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 48676    | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 105.80% |
| 41) Toluene-d8                 | 7.34   | 98    | 151799   | 5.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 107.80% |
| 43) trans-1,3-Dichloropropene- | 7.64   | 79    | 17689    | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 88.40%  |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 96483    | 50.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 36526    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 55215    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.40% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 63784    | 4.694  | ug/L   | 99     |
| 3) Chloromethane               | 1.25 | 50   | 51181    | 3.955  | ug/L   | 99     |
| 5) Vinyl chloride              | 1.32 | 62   | 57644    | 4.626  | ug/L   | 97     |
| 6) Bromomethane                | 1.53 | 94   | 12760    | 1.853  | ug/L   | 97     |
| 8) Chloroethane                | 1.59 | 64   | 35160    | 4.866  | ug/L   | 90     |
| 9) Trichlorofluoromethane      | 1.76 | 101  | 83997    | 5.269  | ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101  | 46328    | 5.145  | ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.13 | 96   | 43091    | 5.000  | ug/L   | 89     |
| 13) Acetone                    | 2.23 | 43   | 82610    | 58.464 | ug/L # | 55     |
| 14) Carbon disulfide           | 2.31 | 76   | 117943   | 3.926  | ug/L   | 100    |
| 15) Methyl Acetate             | 2.46 | 43   | 21269    | 5.087  | ug/L   | 96     |
| 16) Methylene chloride         | 2.52 | 84   | 49261    | 4.879  | ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 2.79 | 73   | 120254   | 5.221  | ug/L   | 97     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96   | 49020    | 5.048  | ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.21 | 63   | 95382    | 5.211  | ug/L   | 98     |
| 21) 2-Butanone                 | 4.02 | 43   | 136499   | 59.778 | ug/L # | 72     |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96   | 51936    | 5.151  | ug/L   | 94     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042120\  
 Data File : VV015614.D  
 Acq On : 21 Apr 2020 20:34  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 22 00:17:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Apr 22 00:11:50 2020  
 Response via : Initial Calibration

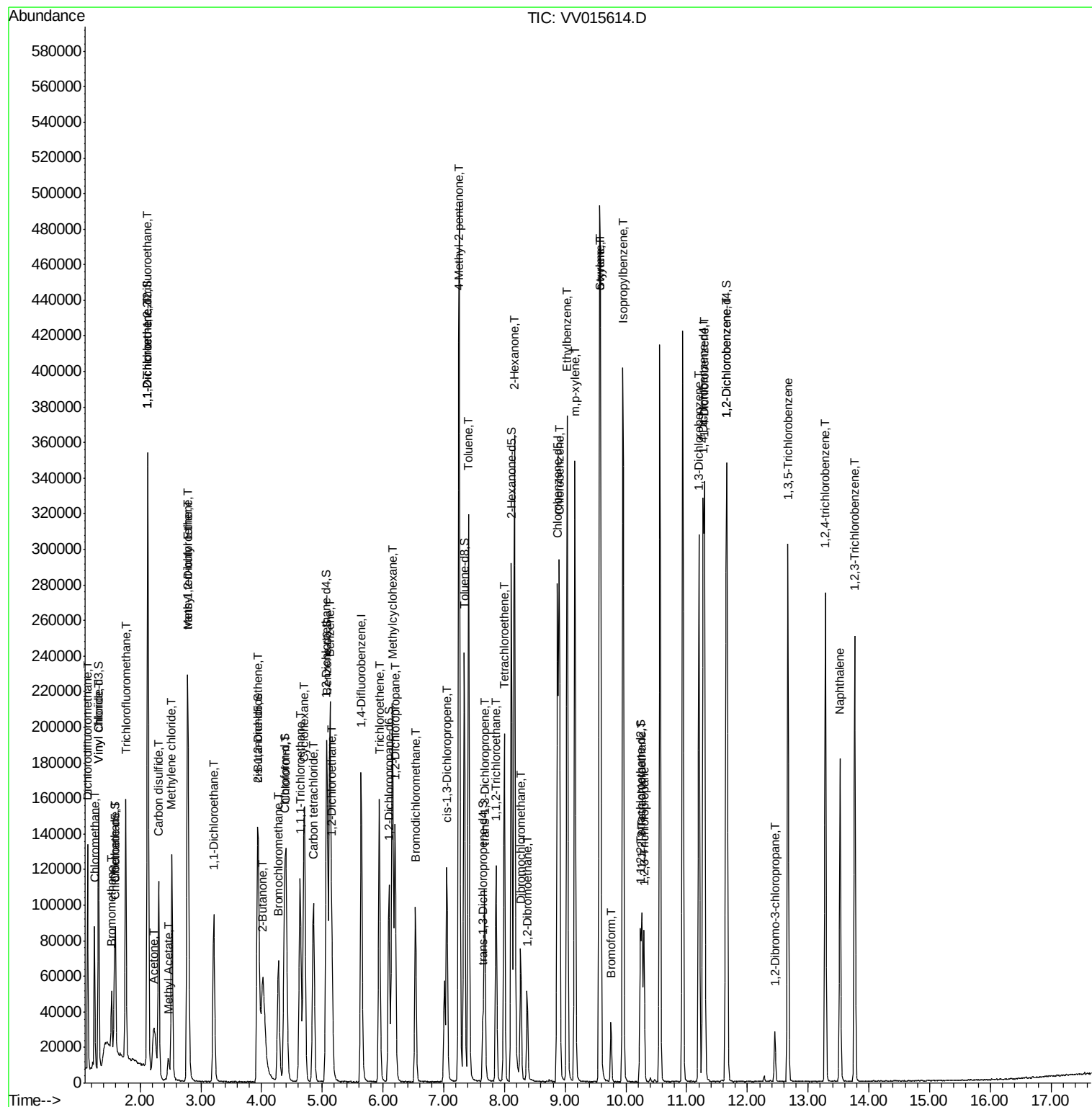
| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 22190    | 5.290  | ug/L  | 95       |
| 25) Chloroform                  | 4.40  | 83   | 98324    | 5.248  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.16  | 62   | 64500    | 5.325  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 4.63  | 97   | 89837    | 5.203  | ug/L  | 98       |
| 30) Cyclohexane                 | 4.70  | 56   | 83914    | 4.578  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 71863    | 4.782  | ug/L  | 99       |
| 33) Benzene                     | 5.13  | 78   | 199150   | 5.000  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 53875    | 5.025  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.15  | 83   | 84043    | 4.653  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 51953    | 5.259  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 63844    | 4.846  | ug/L  | 95       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 66065    | 4.358  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 339919   | 52.401 | ug/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 215201   | 4.977  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 54950    | 4.286  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 34986    | 5.268  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.00  | 164  | 38724    | 4.875  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.16  | 43   | 239170   | 52.769 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 34887    | 4.386  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 32709    | 5.139  | ug/L  | 96       |
| 51) Chlorobenzene               | 8.90  | 112  | 136482   | 4.951  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 247835   | 4.979  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.16  | 106  | 91595    | 4.872  | ug/L  | 98       |
| 54) o-xylene                    | 9.57  | 106  | 88948    | 4.888  | ug/L  | 98       |
| 55) Styrene                     | 9.58  | 104  | 151691   | 4.960  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 246387   | 4.939  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 41125    | 5.088  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 32712    | 5.356  | ug/L  | 100      |
| 61) Bromoform                   | 9.76  | 173  | 13337    | 3.319  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 110708   | 5.012  | ug/L  | 96       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 112267   | 4.995  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 102155   | 5.073  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 6640     | 4.309  | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 80483    | 5.043  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 72113    | 5.016  | ug/L  | 99       |
| 69) Naphthalene                 | 13.53 | 128  | 129515   | 4.781  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 65217    | 5.135  | ug/L  | 100      |

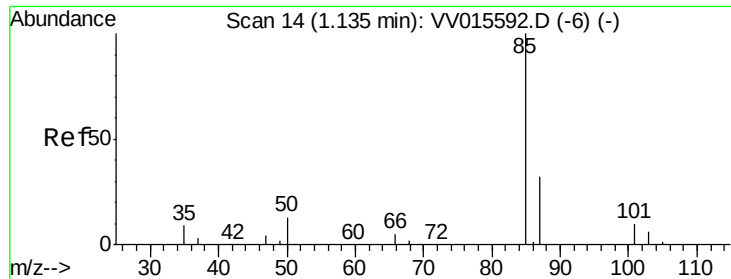
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV042120\  
Data File : VV015614.D  
Acq On : 21 Apr 2020 20:34  
Operator : SY/MD  
Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampled :

Quant Time: Apr 22 00:17:43 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Apr 22 00:11:50 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.694 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

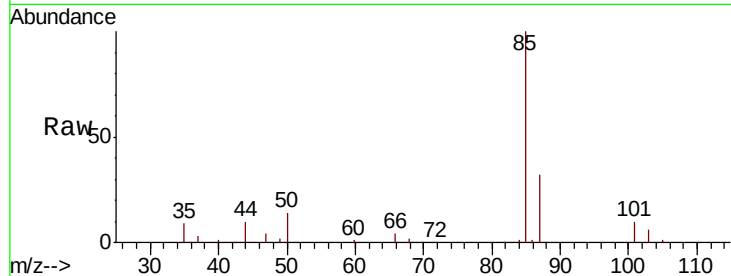
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 85 Resp: 63784

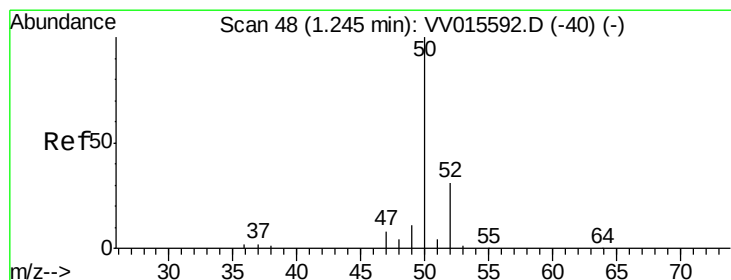
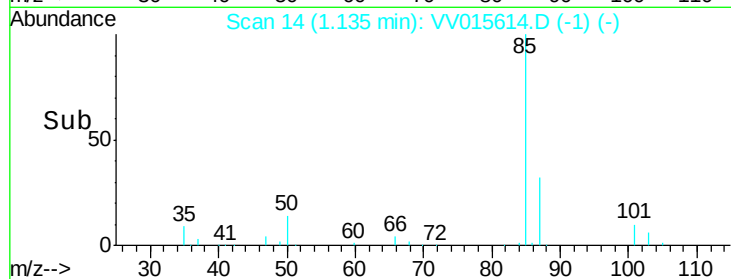
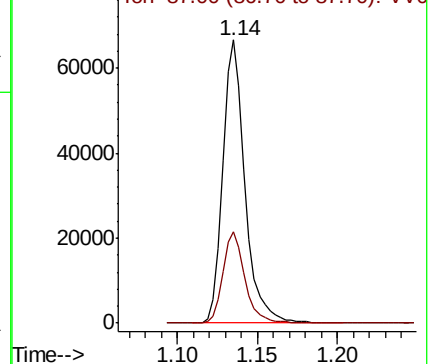
Ion Ratio Lower Upper

85 100

87 32.1 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV0  
Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 3.955 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV015614.D

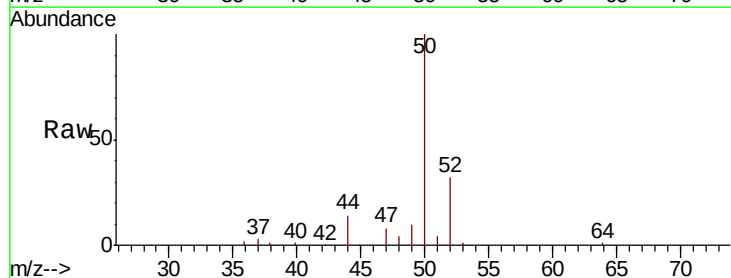
Acq: 21 Apr 2020 20:34

Tgt Ion: 50 Resp: 51181

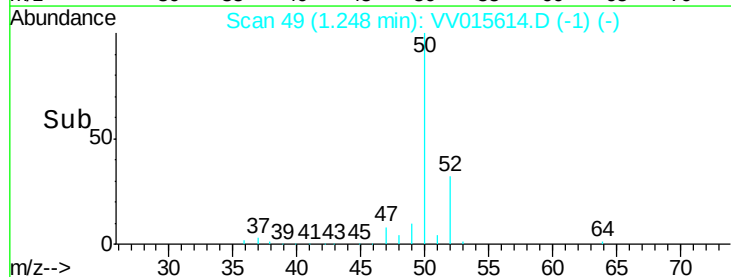
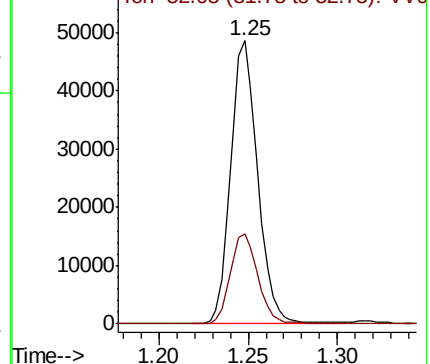
Ion Ratio Lower Upper

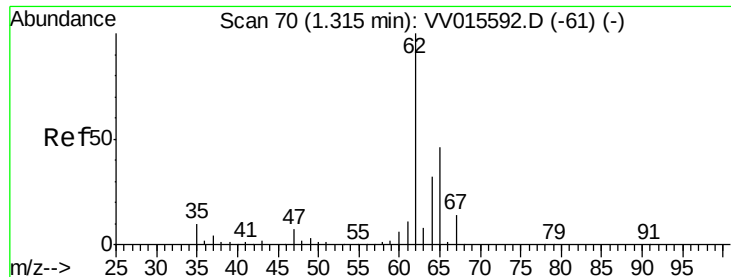
50 100

52 32.0 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VV0  
Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.626 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

Instrument :

MSVOA\_V

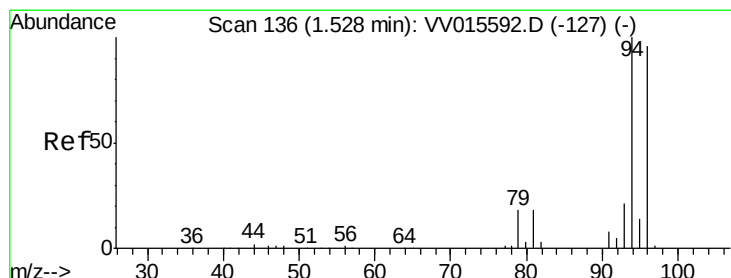
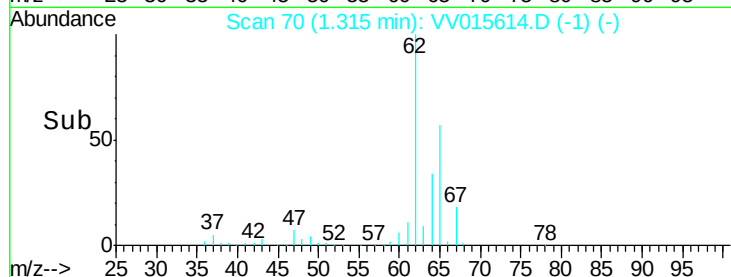
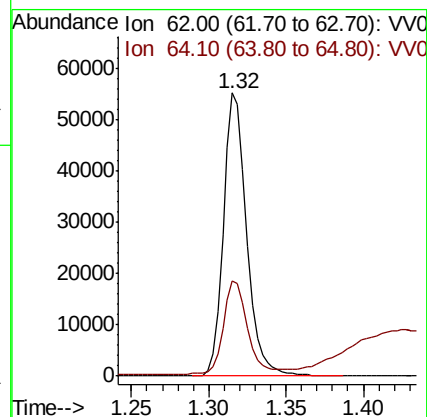
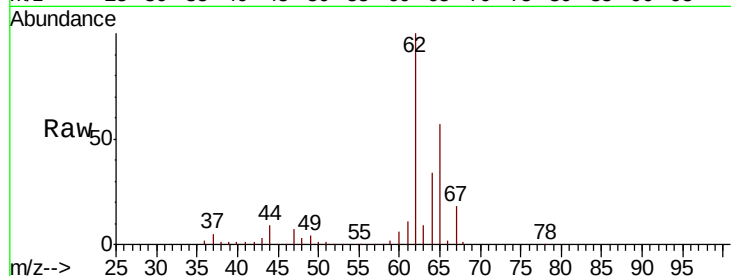
ClientSampled :

Tot Ion: 62 Resp: 57644

Ion Ratio Lower Upper

62 100

64 33.7 22.5 41.7



#6

Bromomethane

Concen: 1.853 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV015614.D

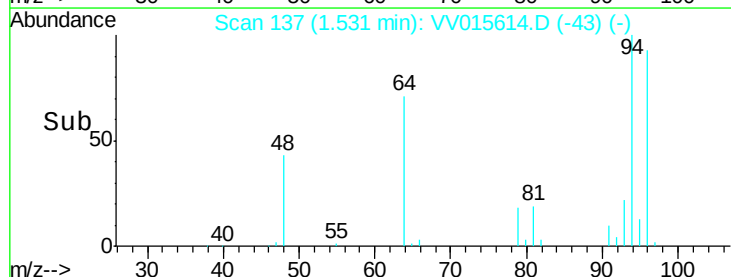
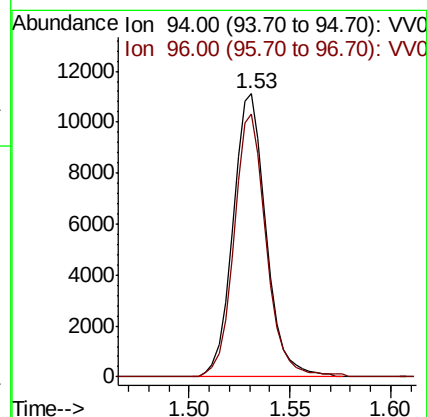
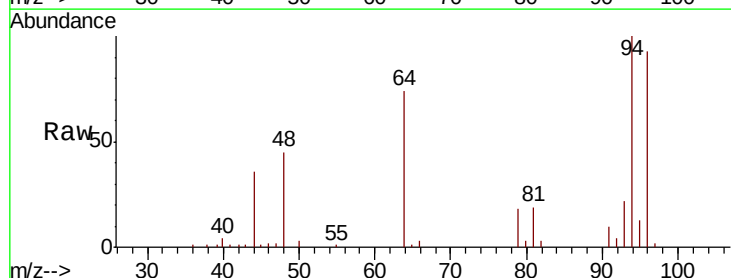
Acq: 21 Apr 2020 20:34

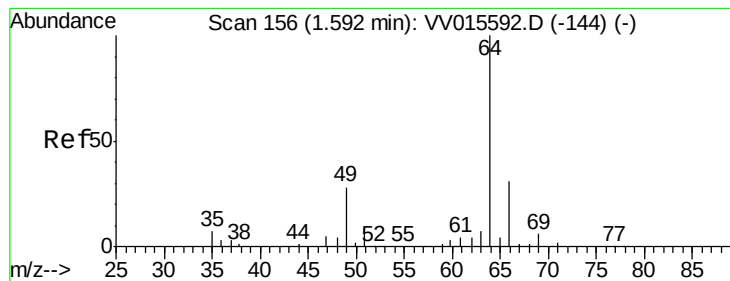
Tgt Ion: 94 Resp: 12760

Ion Ratio Lower Upper

94 100

96 92.7 67.2 124.8





#8

Chloroethane

Concen: 4.866 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

Instrument :

MSVOA\_V

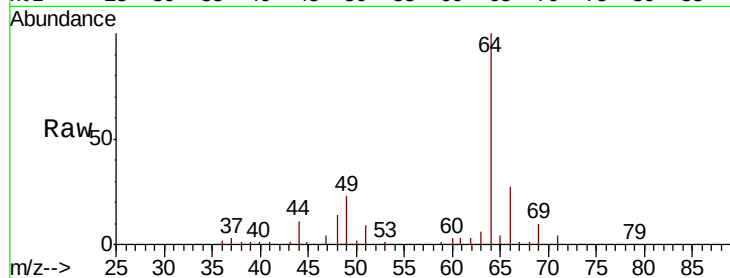
ClientSampled :

Tot Ion: 64 Resp: 35160

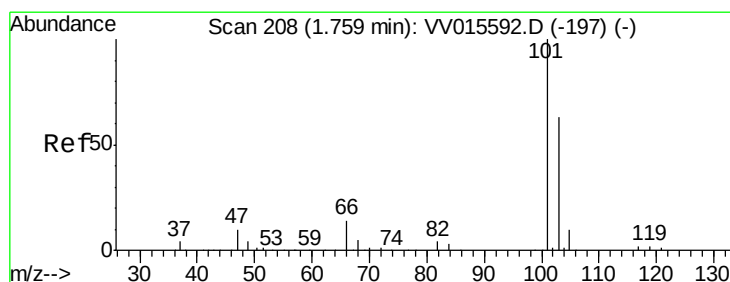
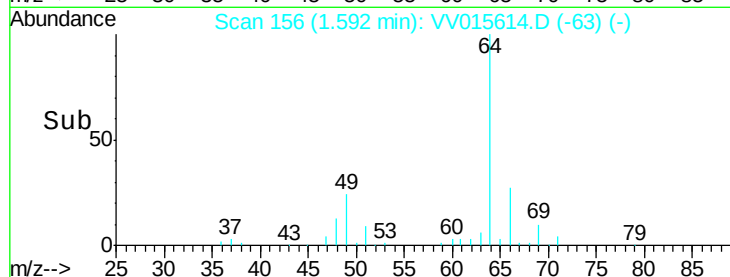
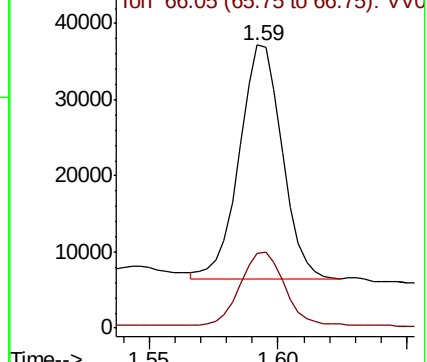
Ion Ratio Lower Upper

64 100

66 26.5 22.3 41.5



Abundance Ion 64.10 (63.80 to 64.80): VV015592.D (-144) (-)



#9

Trichlorofluoromethane

Concen: 5.269 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV015614.D

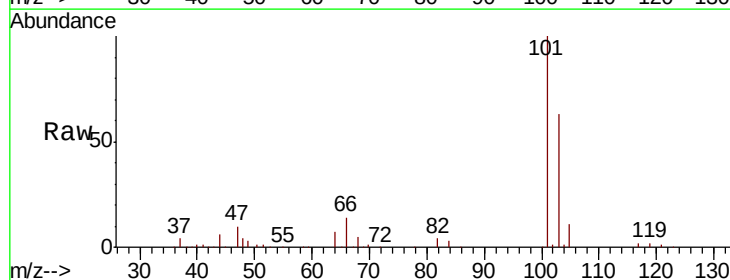
Acq: 21 Apr 2020 20:34

Tgt Ion:101 Resp: 83997

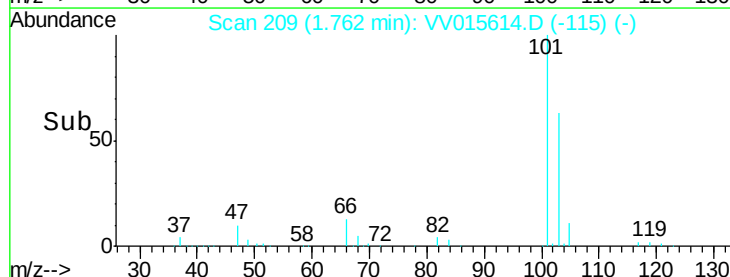
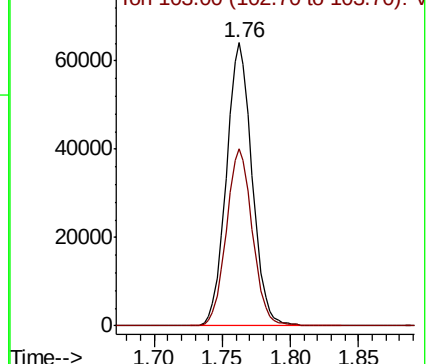
Ion Ratio Lower Upper

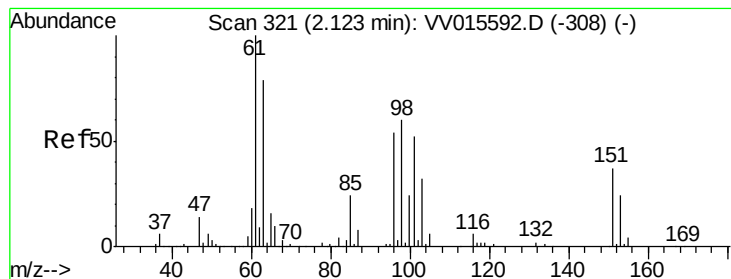
101 100

103 63.5 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV015592.D (-197) (-)





#10

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

Concen: 5.145 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.01 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

Instrument :

MSVOA\_V

ClientSampleId :

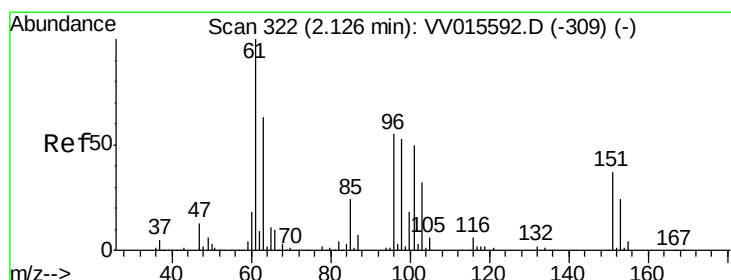
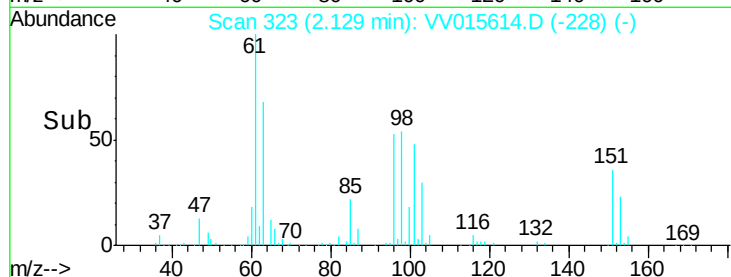
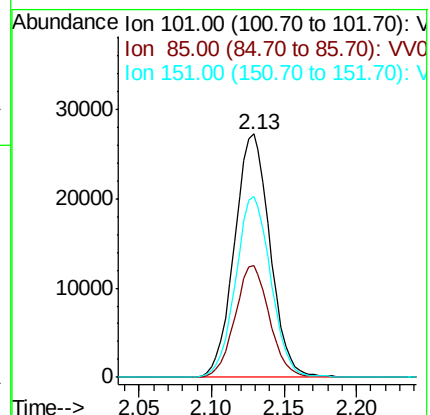
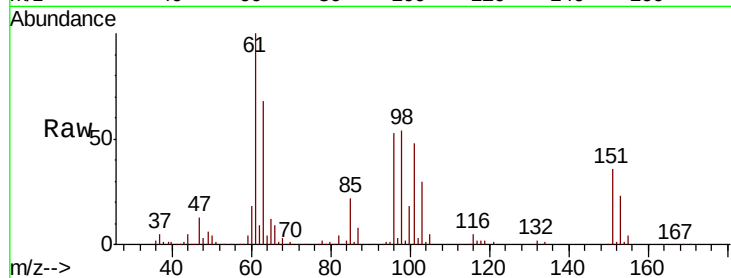
Tot Ion:101 Resp: 46328

Ion Ratio Lower Upper

101 100

85 44.6 36.3 54.5

151 73.5 58.2 87.4



#12

1,1-Dichloroethene

Concen: 5.000 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

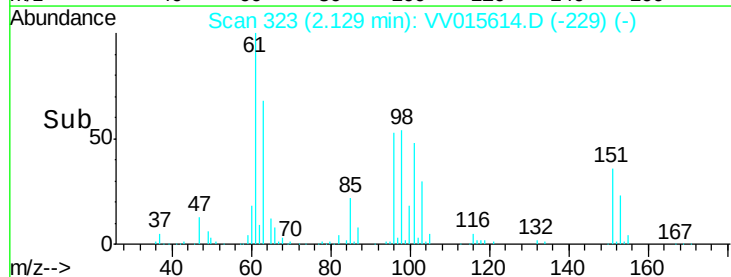
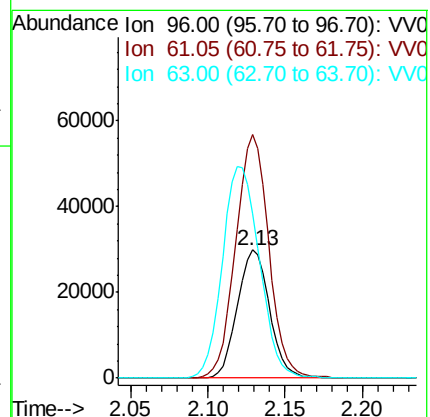
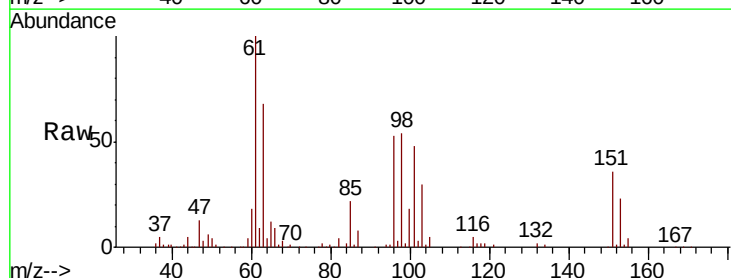
Tgt Ion: 96 Resp: 43091

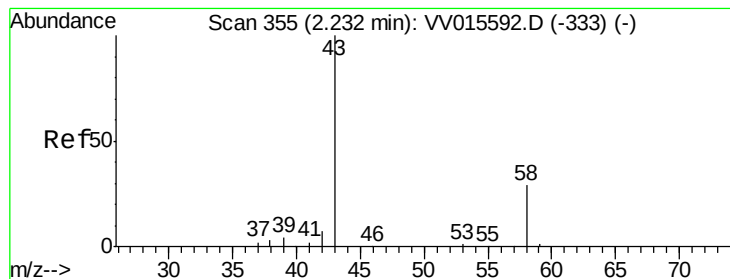
Ion Ratio Lower Upper

96 100

61 190.2 127.7 237.1

63 128.6 75.1 139.5





#13

Acetone

Concen: 58.464 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.01 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

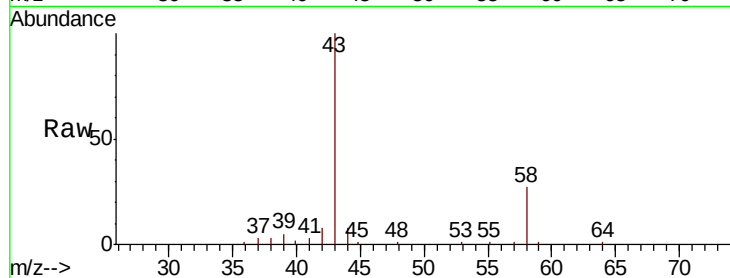
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 82610

Ion Ratio Lower Upper

43 100

58 28.1 0.0 22.2#



Abundance Ion 43.05 (42.75 to 43.75): VV015592.D (-333) (-)

Ion 58.05 (57.75 to 58.75): VV015592.D (-333) (-)

2.23

20000

15000

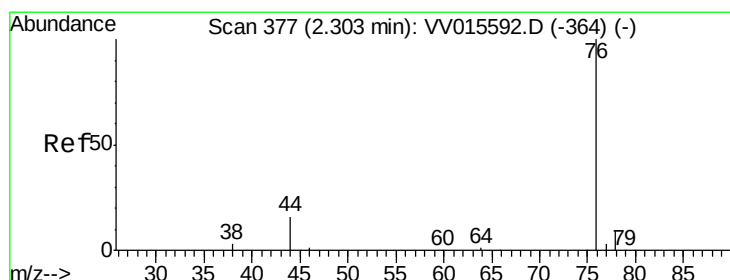
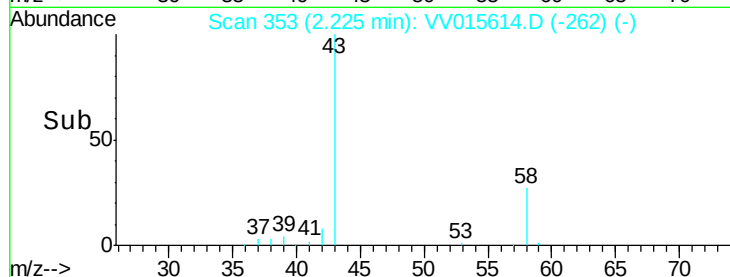
10000

5000

0

Time-->

2.10 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 3.926 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VV015614.D

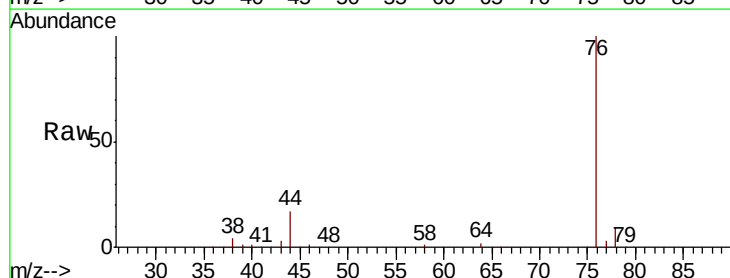
Acq: 21 Apr 2020 20:34

Tgt Ion: 76 Resp: 117943

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV015592.D (-364) (-)

Ion 78.00 (77.70 to 78.70): VV015592.D (-364) (-)

2.31

80000

60000

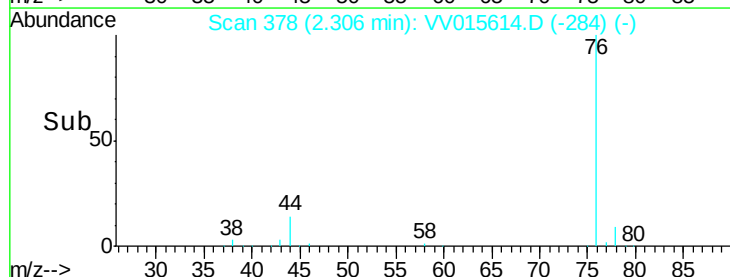
40000

20000

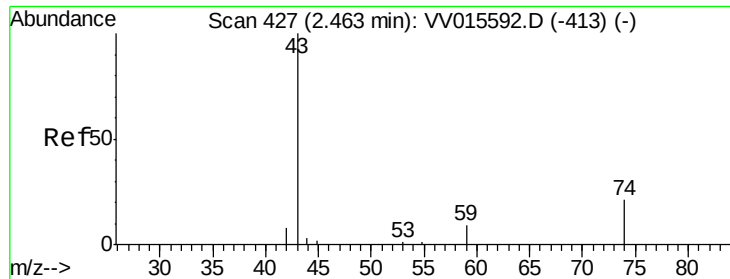
0

Time-->

2.25 2.30 2.35 2.40



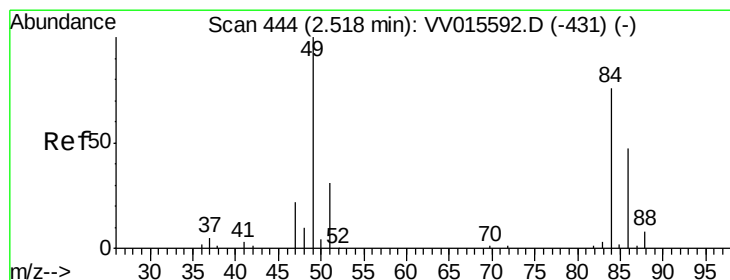
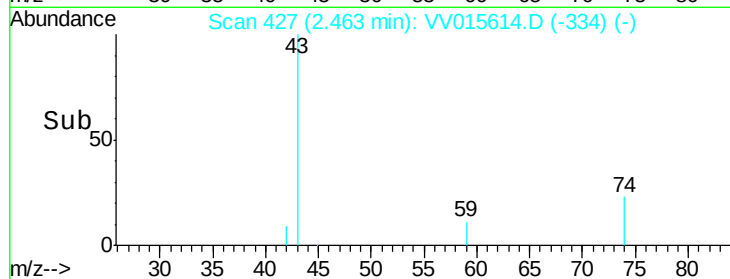
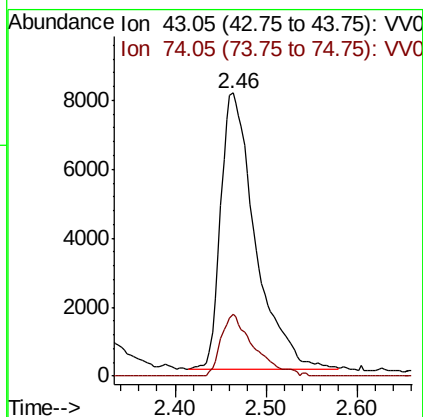
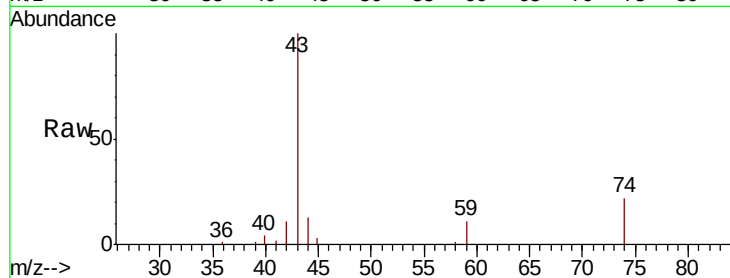




#15  
Methvl Acetate  
Concen: 5.087 ug/L  
RT: 2.46 min Scan# 427  
Delta R.T. -0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

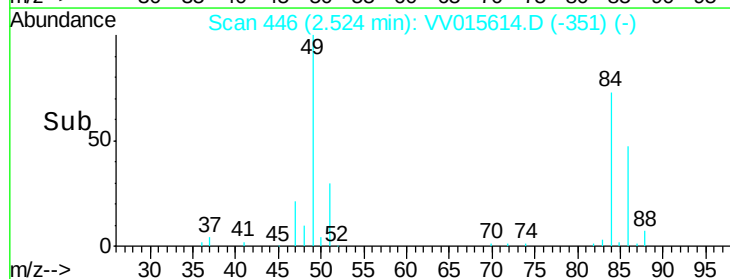
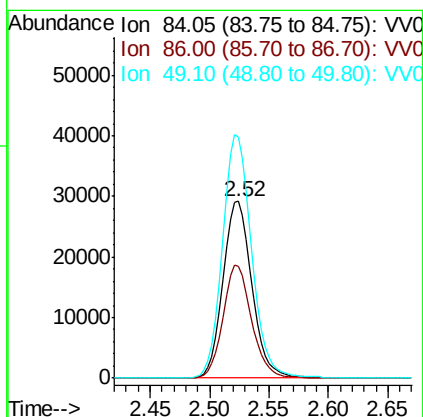
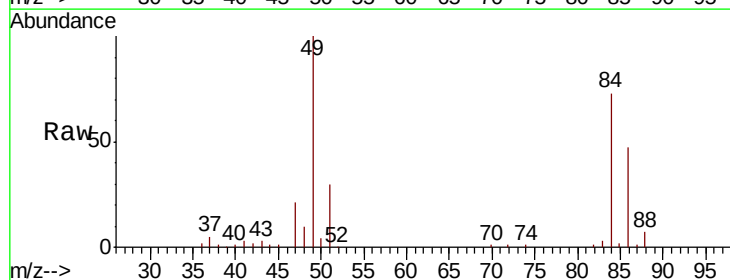
Instrument :  
MSVOA\_V  
ClientSampleId :

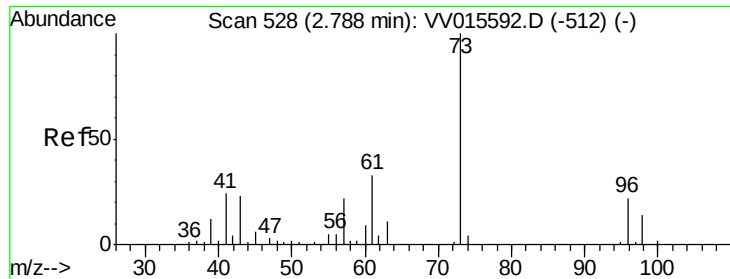
Tot Ion: 43 Resp: 21269  
Ion Ratio Lower Upper  
43 100  
74 21.3 15.4 23.2



#16  
Methylene chloride  
Concen: 4.879 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. 0.01 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

Tgt Ion: 84 Resp: 49261  
Ion Ratio Lower Upper  
84 100  
86 63.6 45.1 83.7  
49 136.4 97.9 181.7

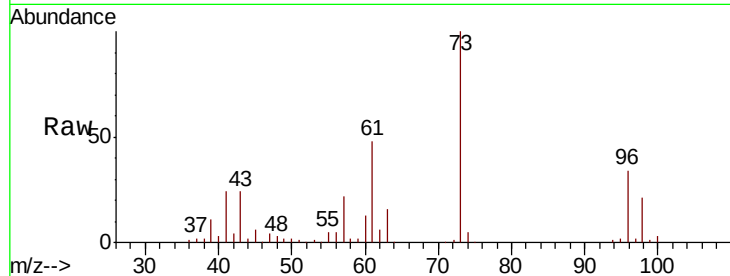




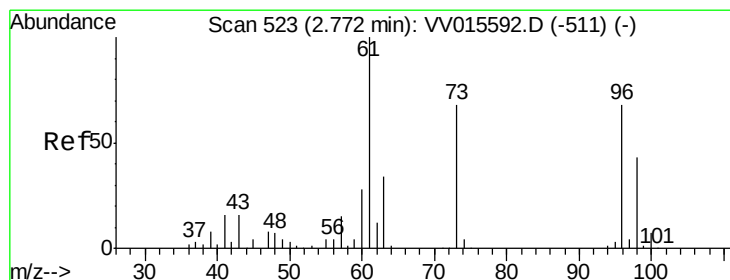
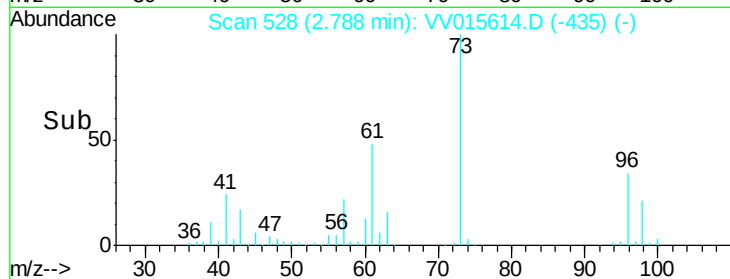
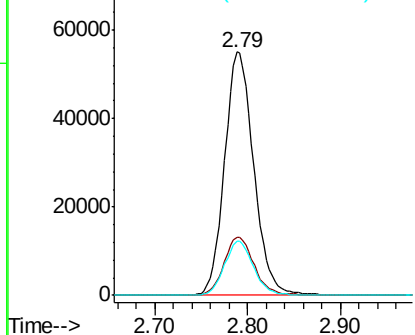
#17  
Methyl tert-butyl Ether  
Concen: 5.221 ug/L  
RT: 2.79 min Scan# 528  
Delta R.T. -0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 73 Resp: 120254  
Ion Ratio Lower Upper  
73 100  
43 24.9 18.3 27.5  
57 22.0 18.4 27.6

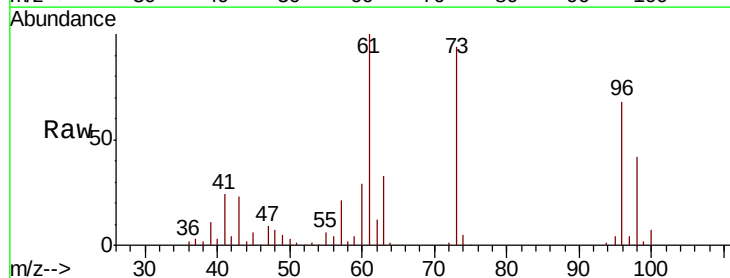


Abundance Ion 73.10 (72.80 to 73.80): VV0  
Ion 43.05 (42.75 to 43.75): VV0  
Ion 57.10 (56.80 to 57.80): VV0

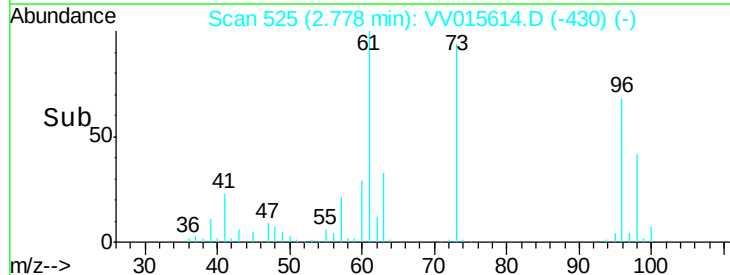
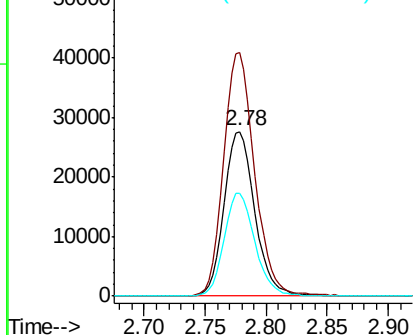


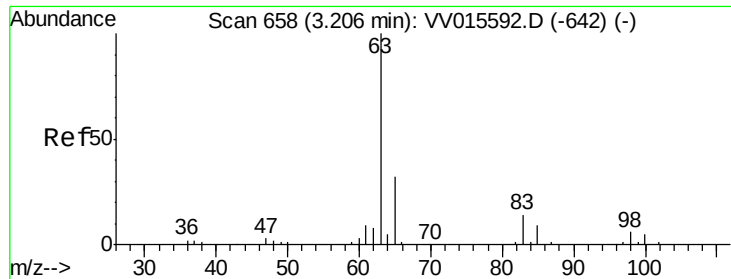
#18  
trans-1,2-Dichloroethene  
Concen: 5.048 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.01 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

Tgt Ion: 96 Resp: 49020  
Ion Ratio Lower Upper  
96 100  
61 148.1 104.4 194.0  
98 62.8 42.8 79.4



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

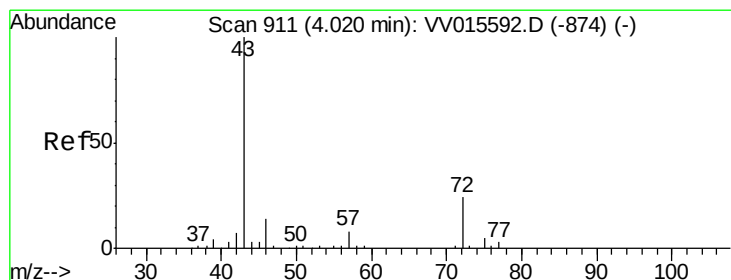
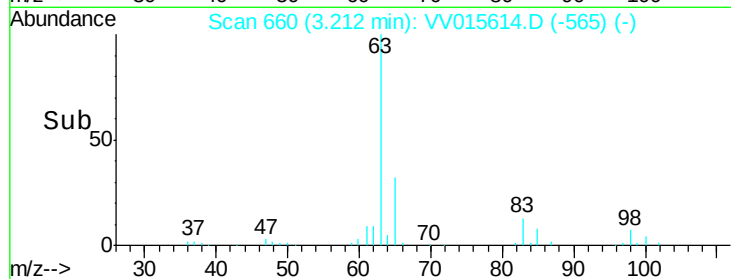
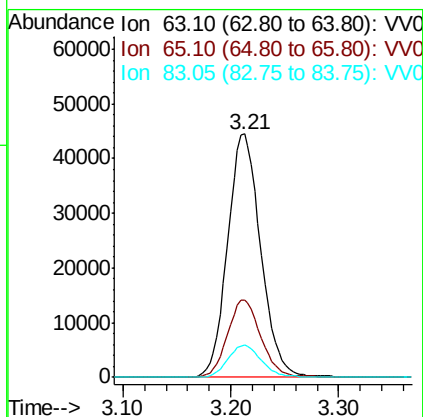
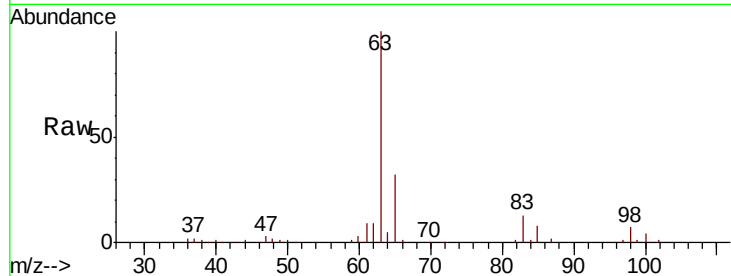




#19  
 1,1-Dichloroethane  
 Concen: 5.211 ug/L  
 RT: 3.21 min Scan# 660  
 Delta R.T. 0.01 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

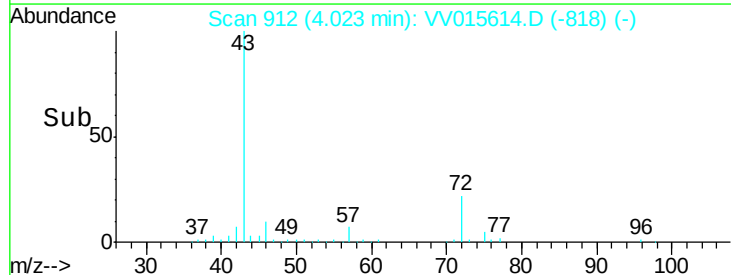
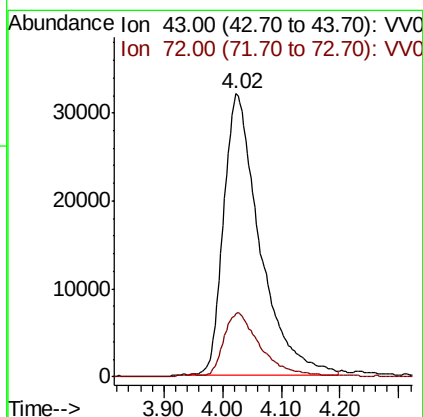
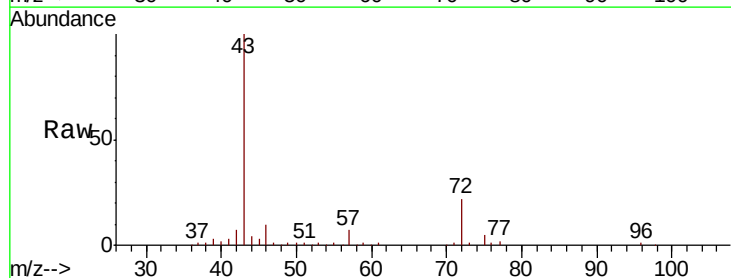
Instrument :  
 MSVOA\_V  
 ClientSampled :

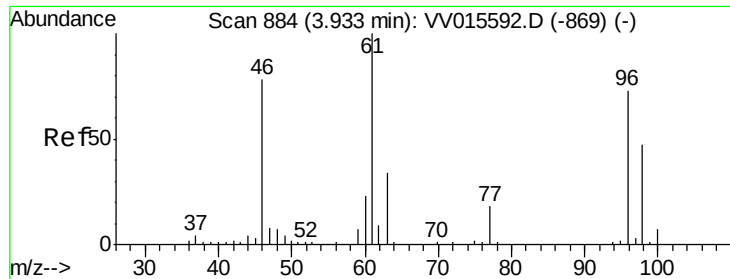
Tot Ion: 63 Resp: 95382  
 Ion Ratio Lower Upper  
 63 100  
 65 32.0 21.3 39.6  
 83 13.1 9.4 17.6



#21  
 2-Butanone  
 Concen: 59.778 ug/L  
 RT: 4.02 min Scan# 912  
 Delta R.T. 0.00 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

Tgt Ion: 43 Resp: 136499  
 Ion Ratio Lower Upper  
 43 100  
 72 22.6 5.9 17.8#



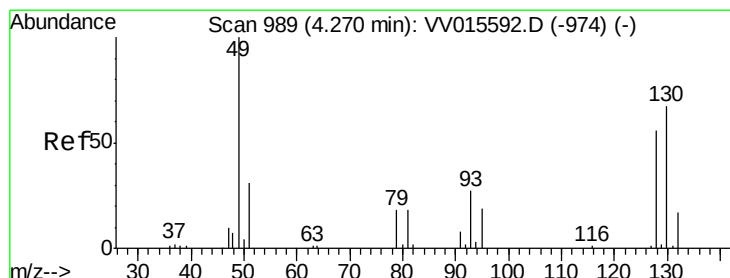
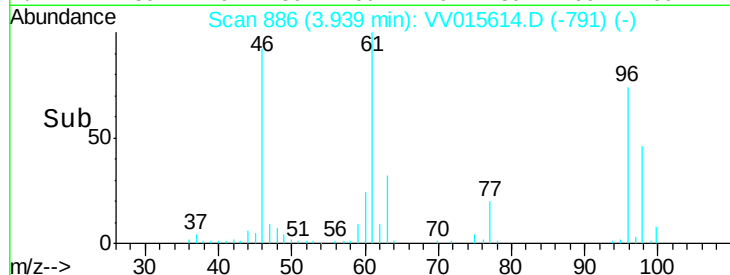
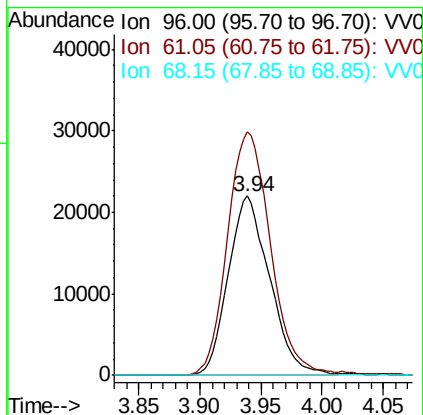
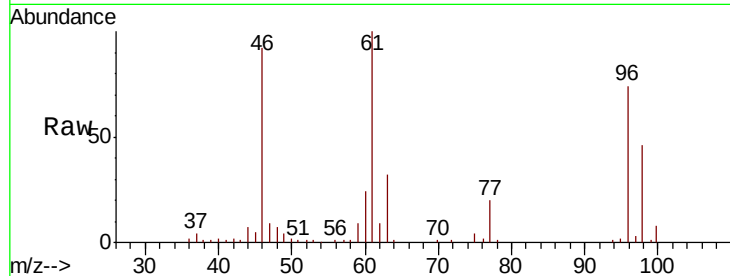


#22

cis-1,2-Dichloroethene  
 Concen: 5.151 ug/L  
 RT: 3.94 min Scan# 886  
 Delta R.T. 0.01 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

Instrument :  
 MSVOA\_V  
 ClientSampleId :

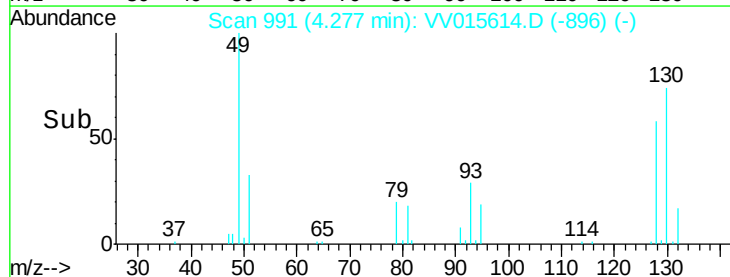
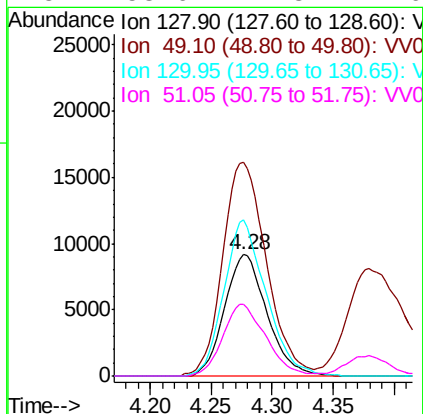
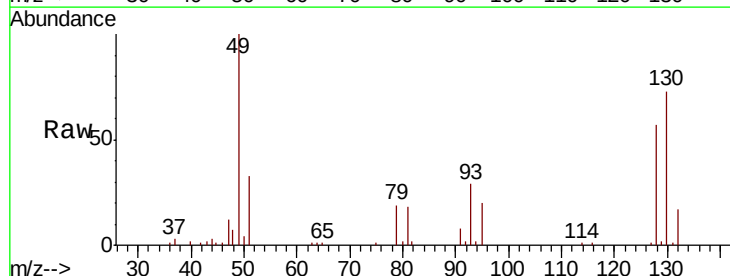
Tot Ion: 96 Resp: 51936  
 Ion Ratio Lower Upper  
 96 100  
 61 136.0 100.0 185.8  
 68 0.0 0.0 0.0

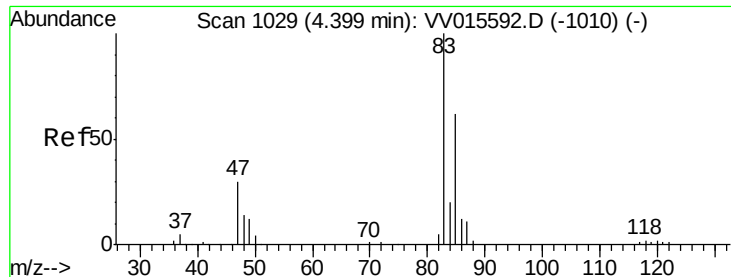


#23

Bromochloromethane  
 Concen: 5.290 ug/L  
 RT: 4.28 min Scan# 991  
 Delta R.T. 0.01 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

Tgt Ion: 128 Resp: 22190  
 Ion Ratio Lower Upper  
 128 100  
 49 176.0 128.8 239.2  
 130 128.3 93.5 173.7  
 51 58.6 47.8 71.6

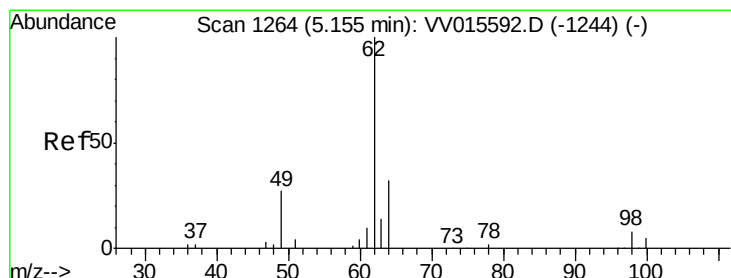
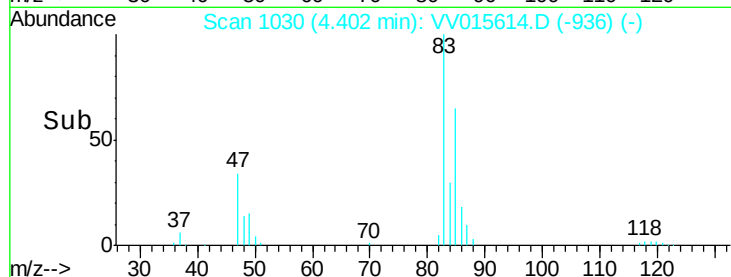
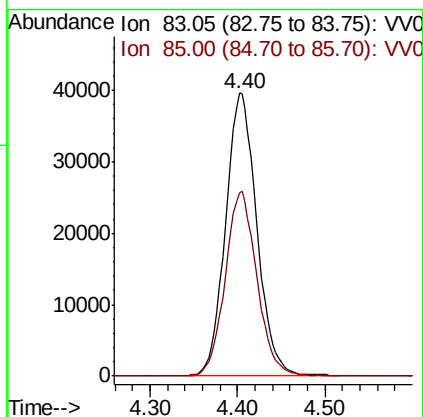
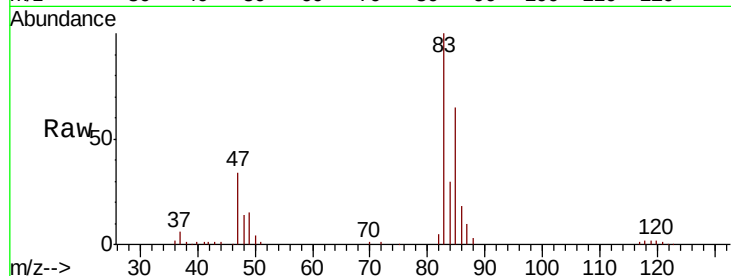




#25  
Chloroform  
Concen: 5.248 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

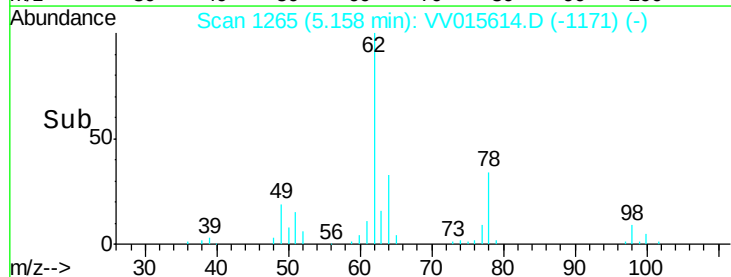
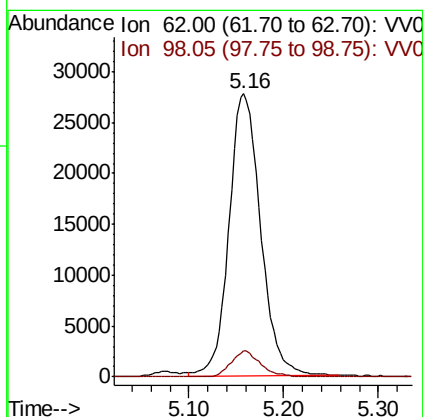
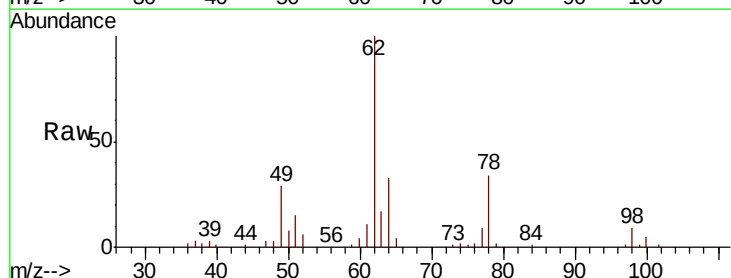
Instrument :  
MSVOA\_V  
ClientSampleId :

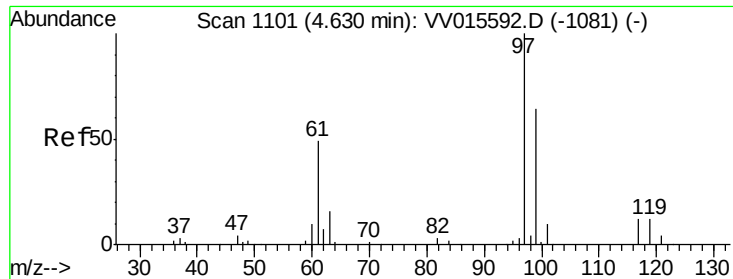
Tot Ion: 83 Resp: 98324  
Ion Ratio Lower Upper  
83 100  
85 65.0 45.9 85.3



#27  
1,2-Dichloroethane  
Concen: 5.325 ug/L  
RT: 5.16 min Scan# 1265  
Delta R.T. 0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

Tgt Ion: 62 Resp: 64500  
Ion Ratio Lower Upper  
62 100  
98 9.1 6.6 10.0

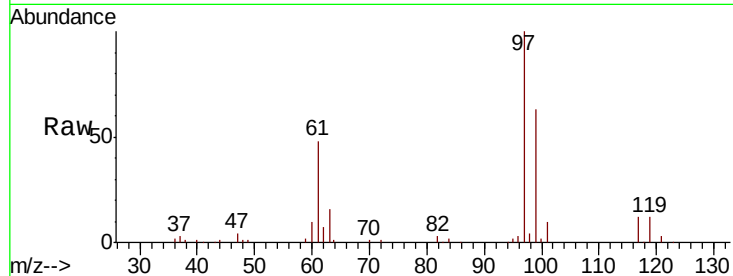




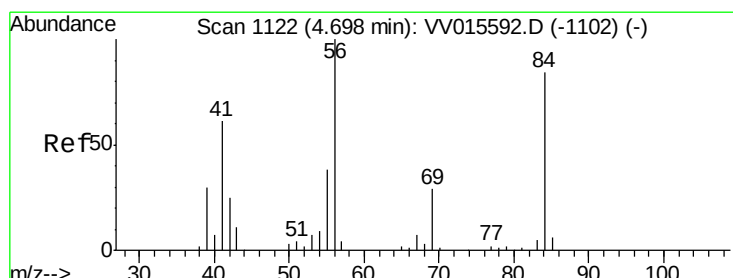
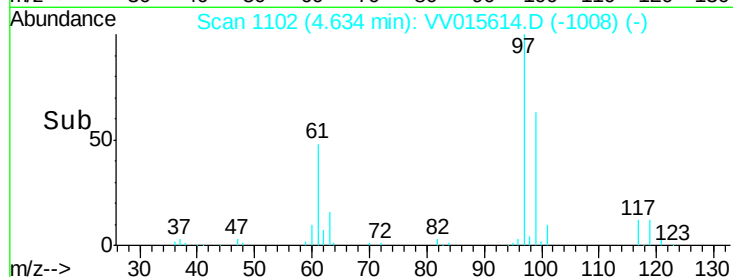
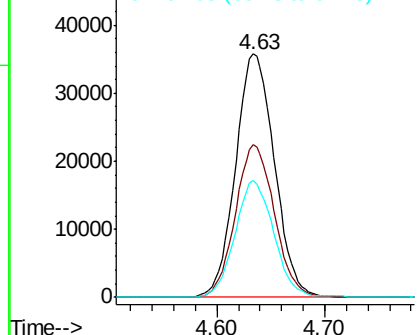
#29  
 1,1,1-Trichloroethane  
 Concen: 5.203 ug/L  
 RT: 4.63 min Scan# 1102  
 Delta R.T. 0.00 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion: 97 Resp: 89837  
 Ion Ratio Lower Upper  
 97 100  
 99 63.0 51.6 77.4  
 61 48.1 39.0 58.6

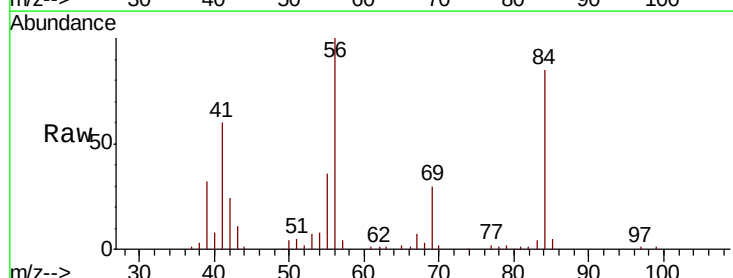


Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 61.05 (60.75 to 61.75): VV0

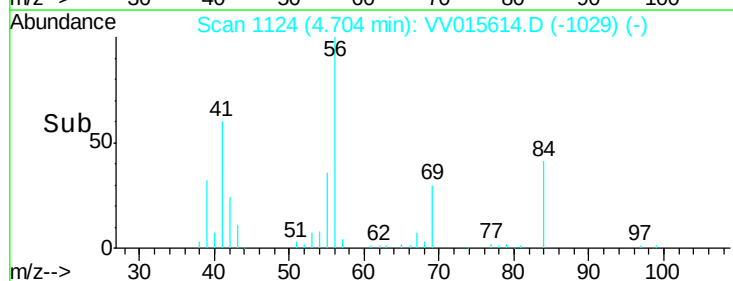
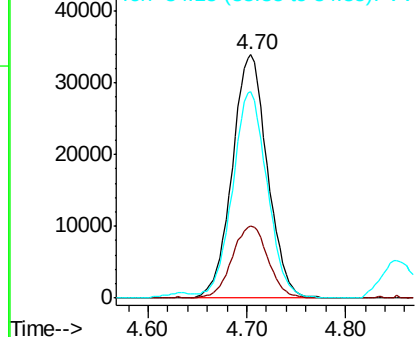


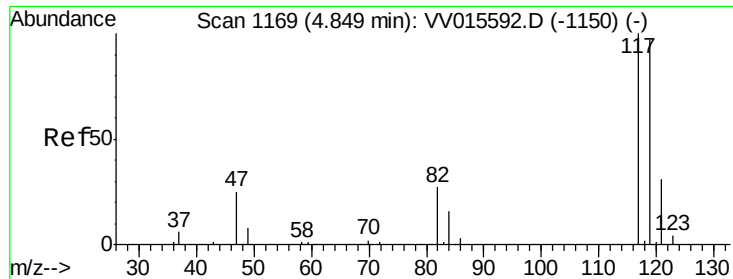
#30  
 Cyclohexane  
 Concen: 4.578 ug/L  
 RT: 4.70 min Scan# 1124  
 Delta R.T. 0.01 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

Tgt Ion: 56 Resp: 83914  
 Ion Ratio Lower Upper  
 56 100  
 69 30.3 24.2 36.4  
 84 84.0 68.4 102.6



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: 4.782 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

Instrument :

MSVOA\_V

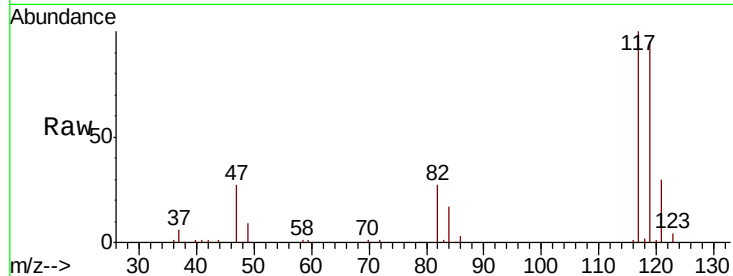
ClientSampleId :

Tot Ion:117 Resp: 71863

Ion Ratio Lower Upper

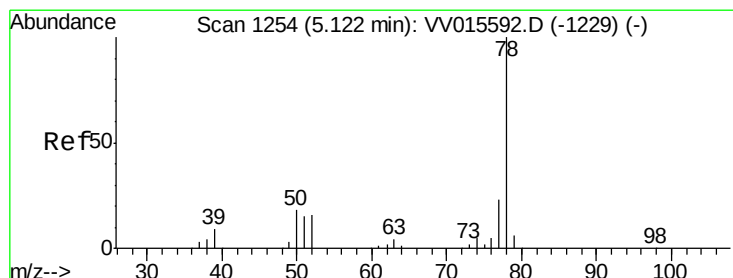
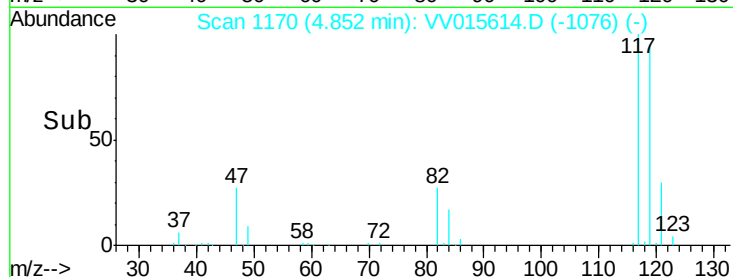
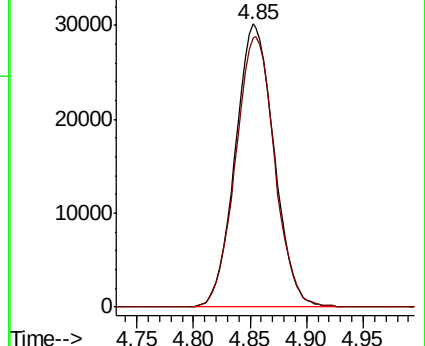
117 100

119 96.4 76.6 115.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.000 ug/L

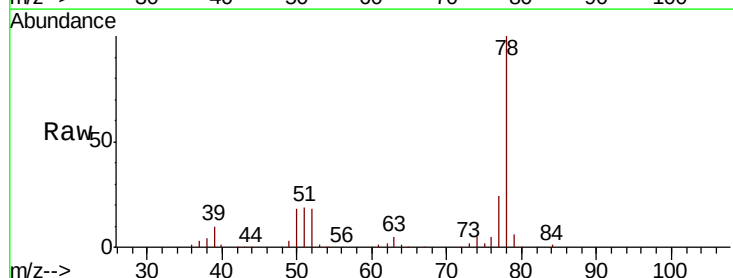
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

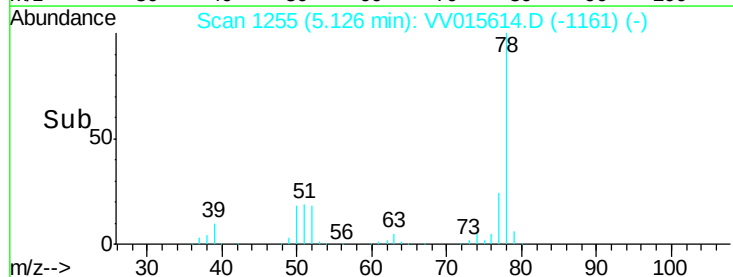
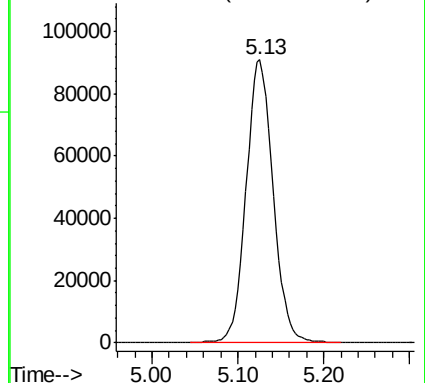
Lab File: VV015614.D

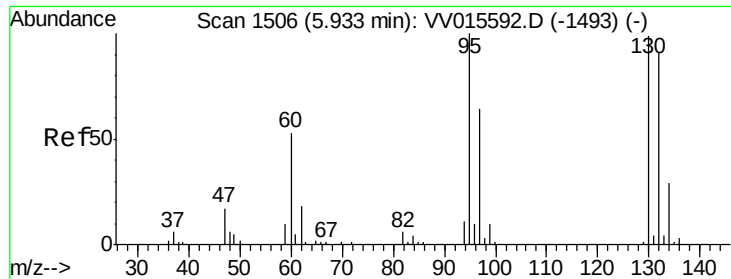
Acq: 21 Apr 2020 20:34

Tgt Ion: 78 Resp: 199150



Abundance Ion 78.10 (77.80 to 78.80): VV0

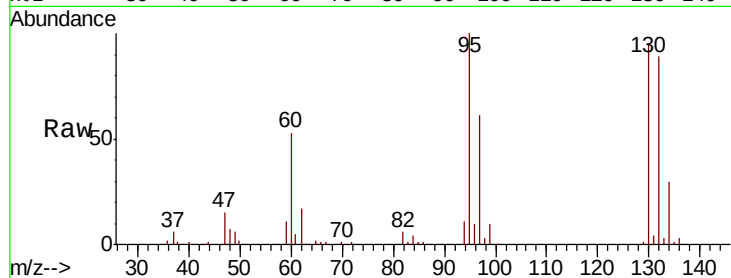




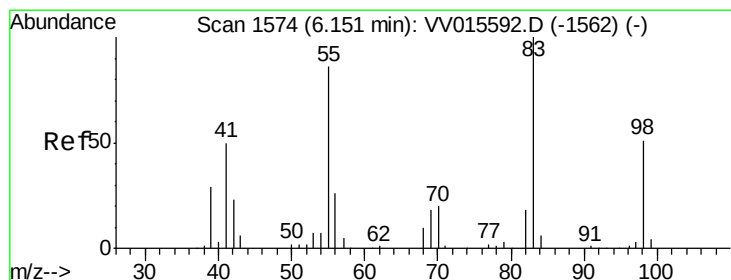
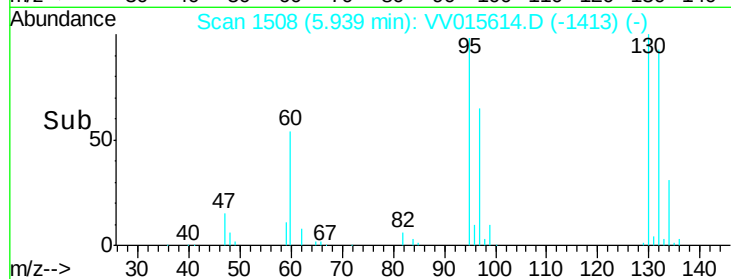
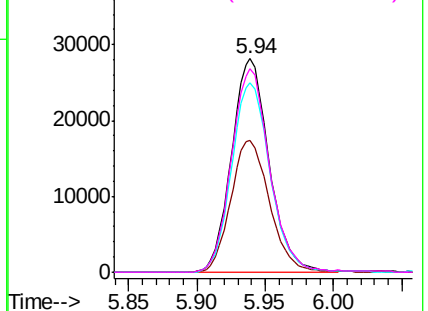
#34  
 Trichloroethene  
 Concen: 5.025 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. 0.01 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 95 Resp: 53875  
 Ion Ratio Lower Upper  
 95 100  
 97 61.4 45.4 84.4  
 132 88.6 64.8 120.4  
 130 95.1 67.4 125.2

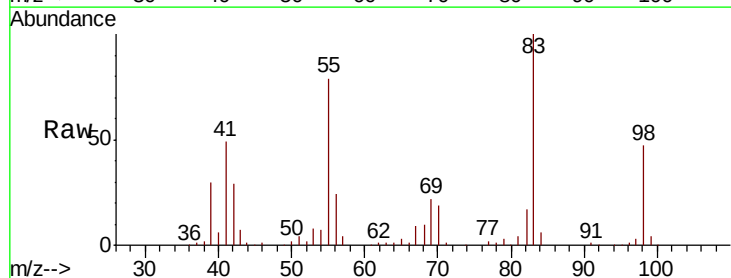


Abundance Ion 95.00 (94.70 to 95.70): VV015592.D (-1493) (-)  
 Ion 96.95 (96.65 to 97.65): VV015592.D (-1493) (-)  
 Ion 131.95 (131.65 to 132.65): VV015592.D (-1493) (-)  
 Ion 129.95 (129.65 to 130.65): VV015592.D (-1493) (-)

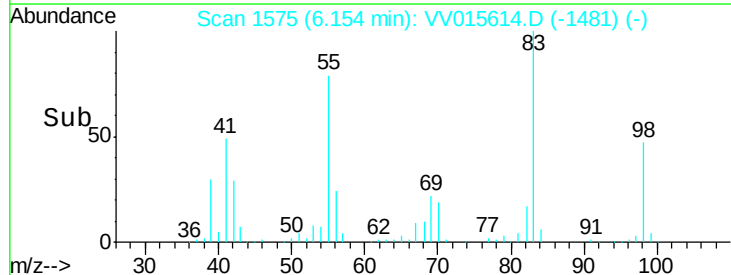
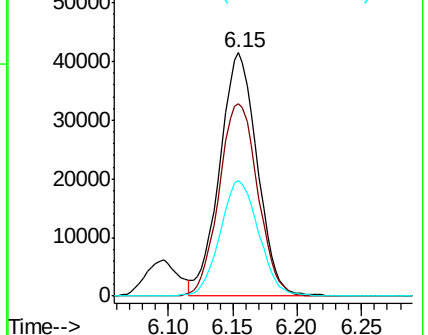


#35  
 Methylcyclohexane  
 Concen: 4.653 ug/L  
 RT: 6.15 min Scan# 1575  
 Delta R.T. 0.00 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

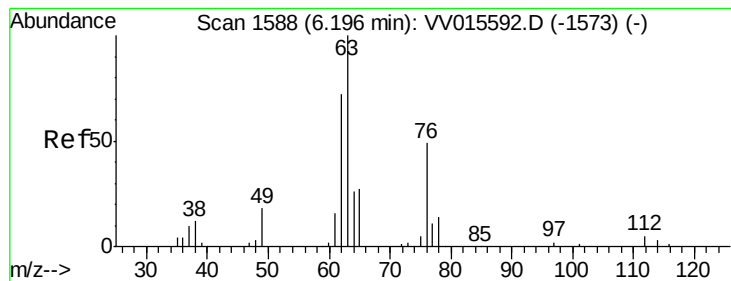
Tgt Ion: 83 Resp: 84043  
 Ion Ratio Lower Upper  
 83 100  
 55 81.5 66.6 99.8  
 98 48.9 38.7 58.1



Abundance Ion 83.15 (82.85 to 83.85): VV015592.D (-1562) (-)  
 Ion 55.10 (54.80 to 55.80): VV015592.D (-1562) (-)  
 Ion 98.15 (97.85 to 98.85): VV015592.D (-1562) (-)







#37

1,2-Dichloropropane

Concen: 5.259 ug/L

RT: 6.20 min Scan# 1589

Delta R.T. 0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

Instrument :

MSVOA\_V

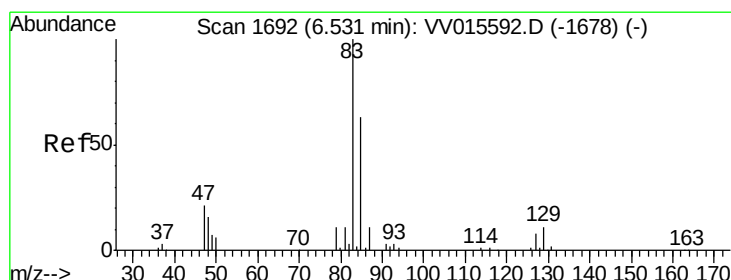
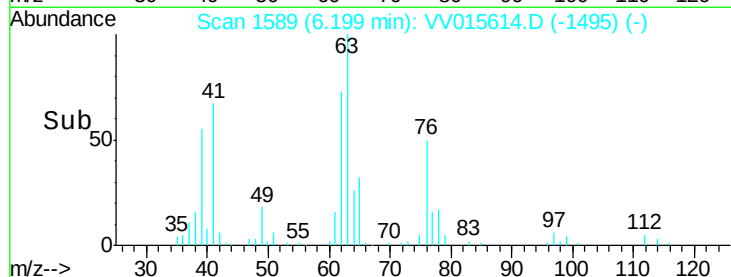
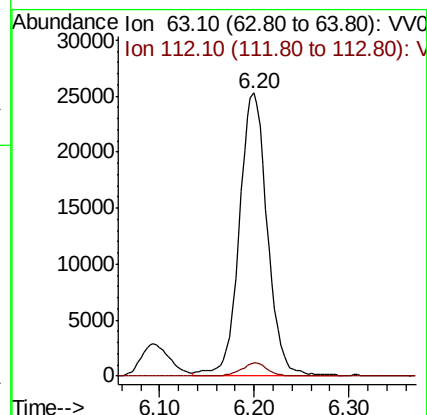
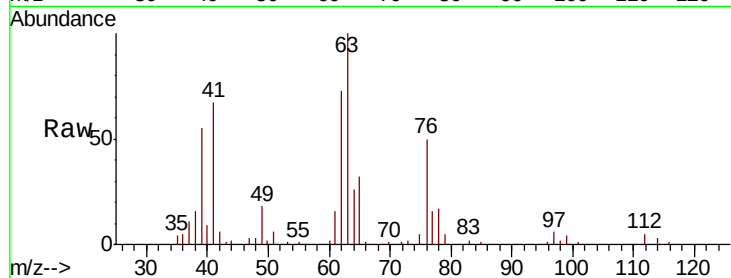
ClientSampled :

Tot Ion: 63 Resp: 51953

Ion Ratio Lower Upper

63 100

112 4.3 3.6 5.4



#38

Bromodichloromethane

Concen: 4.846 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

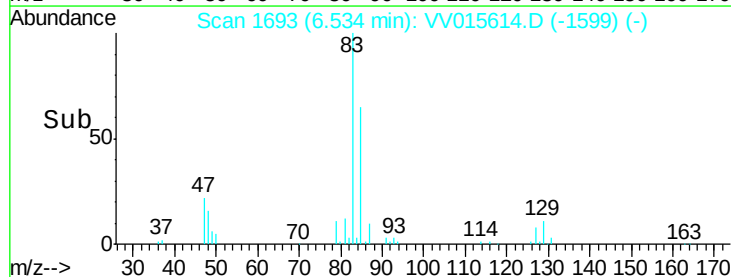
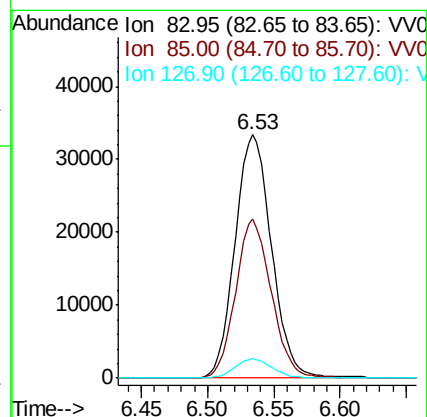
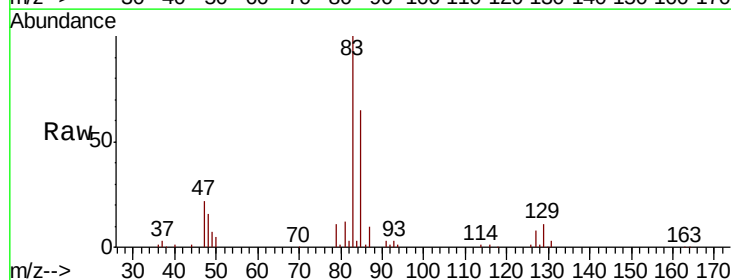
Tgt Ion: 83 Resp: 63844

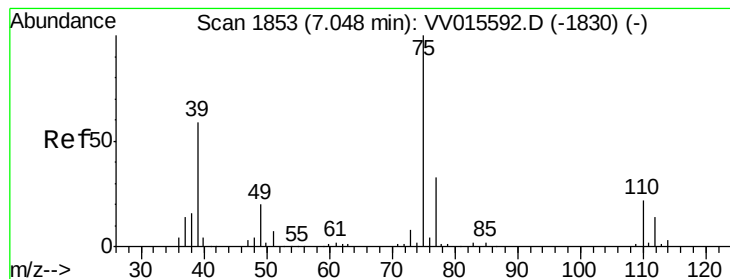
Ion Ratio Lower Upper

83 100

85 65.1 42.6 79.2

127 7.9 6.6 9.8



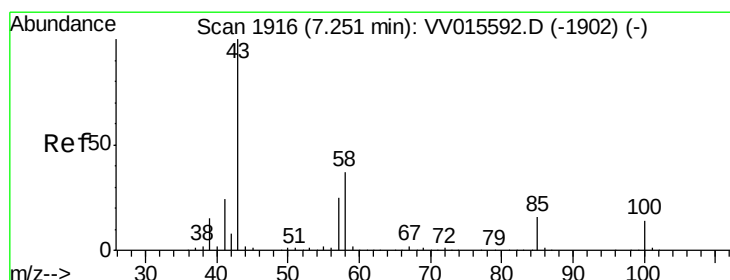
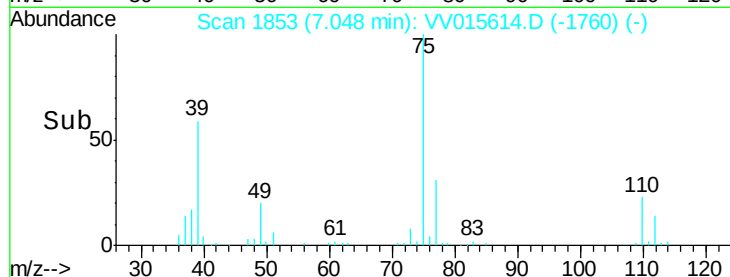
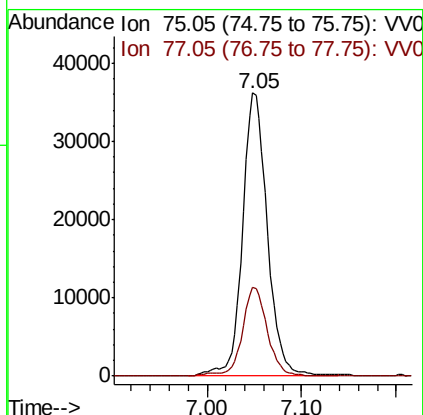
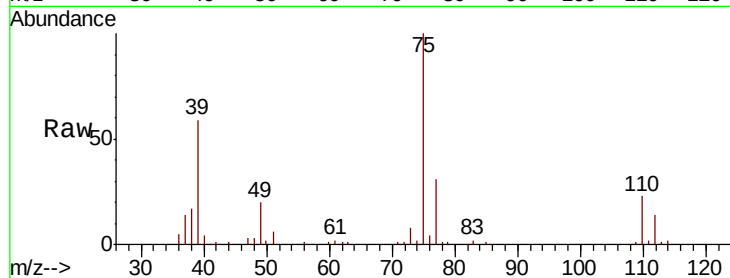


#39

cis-1,3-Dichloropropene  
Concen: 4.358 ug/L  
RT: 7.05 min Scan# 1853  
Delta R.T. -0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

Instrument :  
MSVOA\_V  
ClientSampleId :

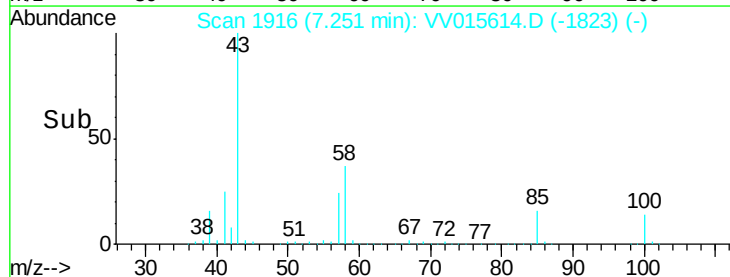
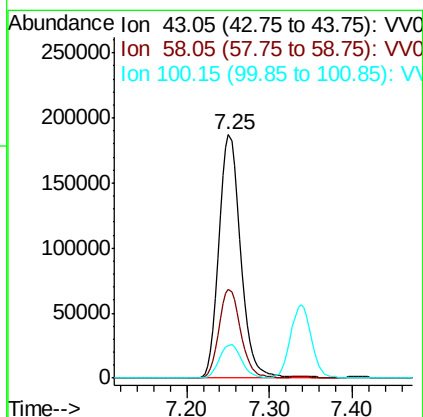
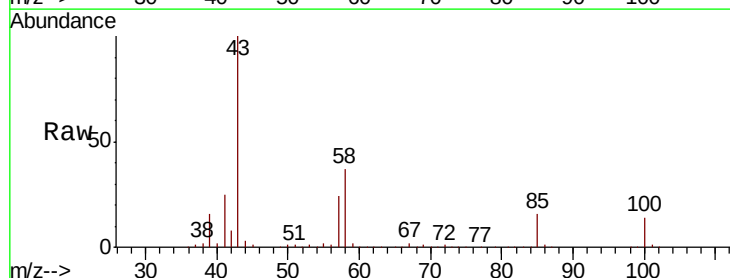
Tot Ion: 75 Resp: 66065  
Ion Ratio Lower Upper  
75 100  
77 31.2 23.0 42.6

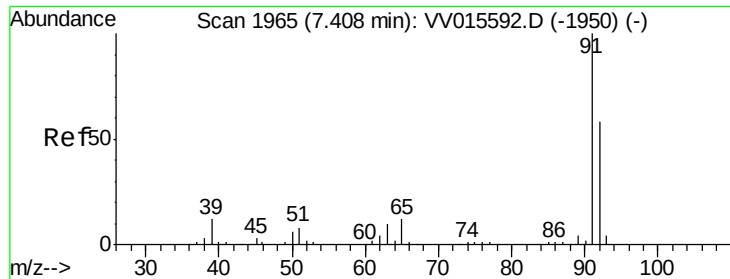


#40

4-Methyl-2-pentanone  
Concen: 52.401 ug/L  
RT: 7.25 min Scan# 1916  
Delta R.T. -0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

Tgt Ion: 43 Resp: 339919  
Ion Ratio Lower Upper  
43 100  
58 36.5 29.0 43.6  
100 13.9 11.0 16.6





#42

Toluene

Concen: 4.977 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

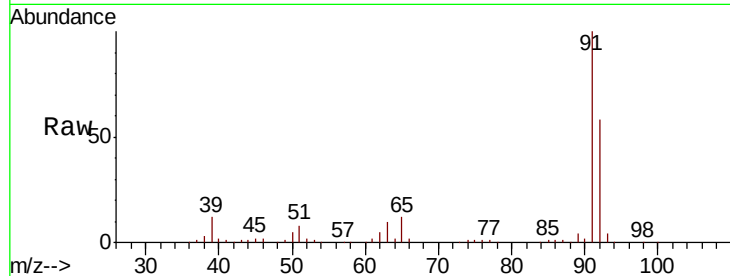
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 91 Resp: 215201

Ion Ratio Lower Upper

91 100

92 58.2 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VV015592.D (-1950) (-)

Ion 92.15 (91.85 to 92.85): VV015592.D (-1950) (-)

7.41

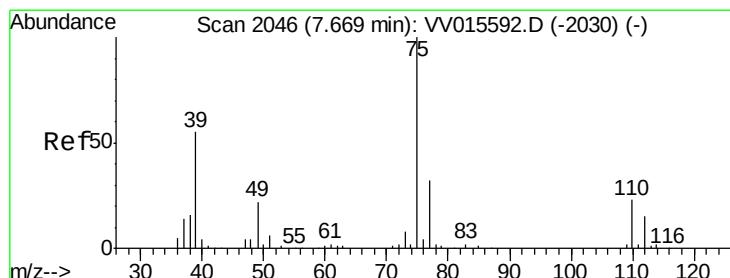
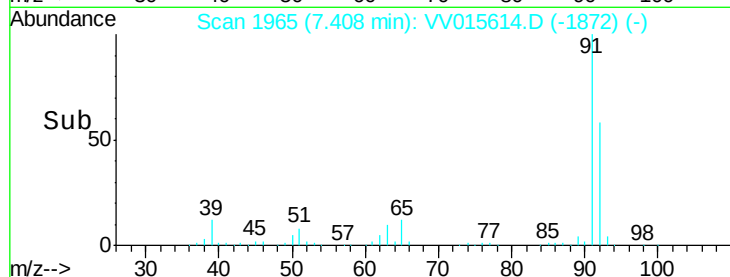
150000

100000

50000

0

Time--> 7.30 7.40 7.50



#44

trans-1,3-Dichloropropene

Concen: 4.286 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV015614.D

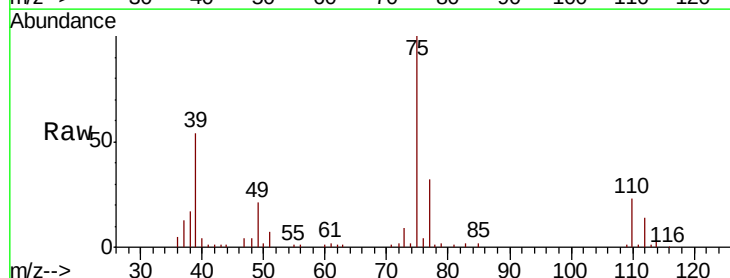
Acq: 21 Apr 2020 20:34

Tgt Ion: 75 Resp: 54950

Ion Ratio Lower Upper

75 100

77 31.5 21.0 39.0



Abundance Ion 75.05 (74.75 to 75.75): VV015592.D (-2030) (-)

Ion 77.05 (76.75 to 77.75): VV015592.D (-2030) (-)

7.67

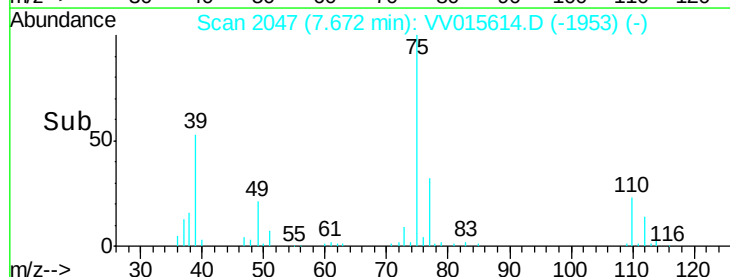
30000

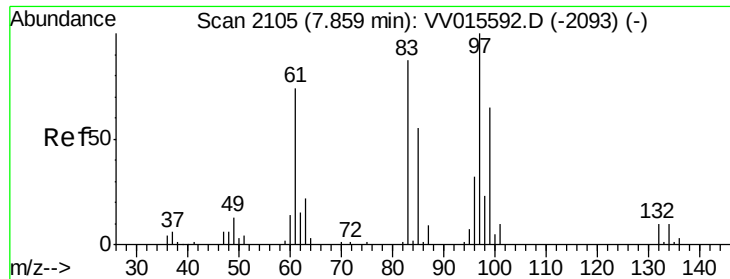
20000

10000

0

Time--> 7.60 7.70 7.80

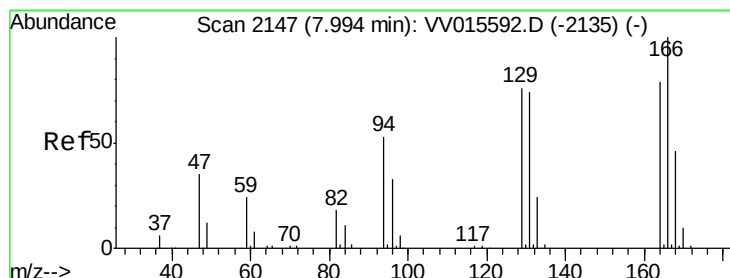
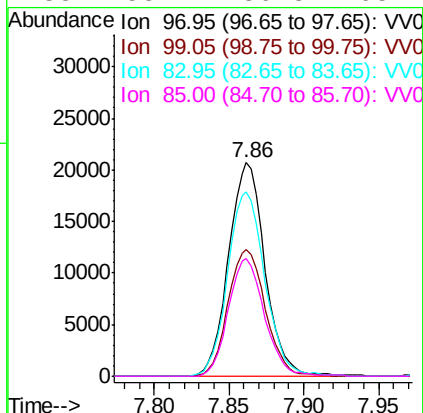
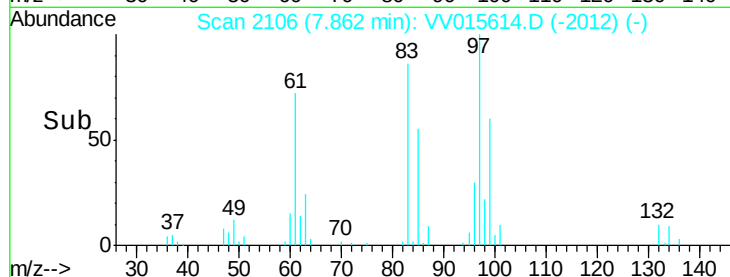
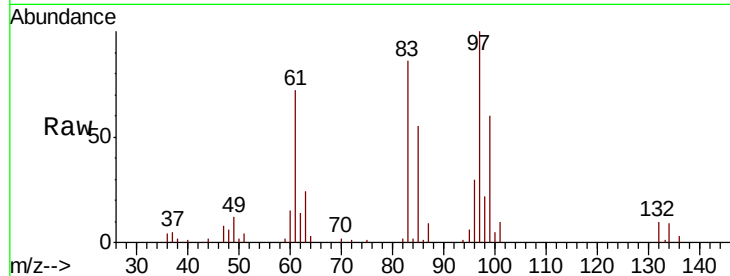




#45  
 1,1,2-Trichloroethane  
 Concen: 5.268 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. 0.00 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

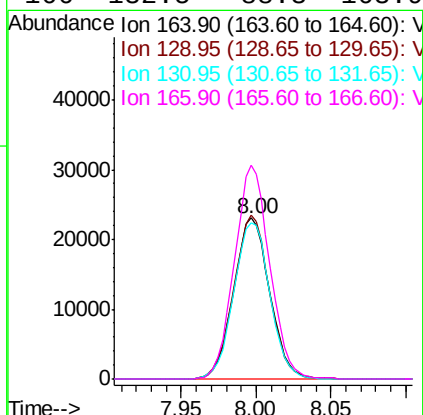
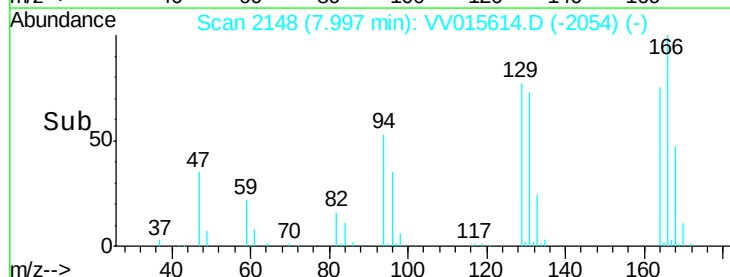
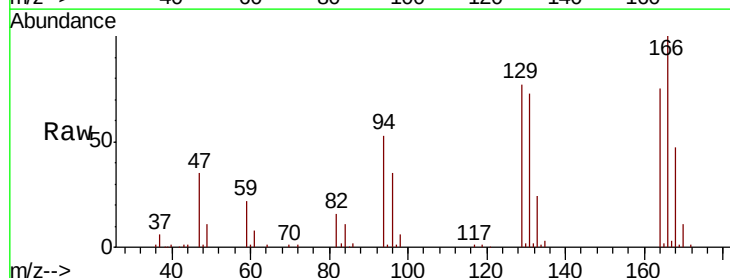
Instrument :  
 MSVOA\_V  
 ClientSampleId :

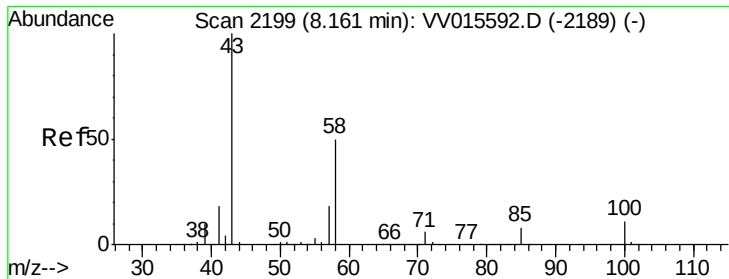
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 34986 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 59.6  | 41.3  | 76.7  |
| 83       | 86.2  | 60.5  | 112.3 |
| 85       | 55.4  | 36.8  | 68.4  |



#47  
 Tetrachloroethene  
 Concen: 4.875 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. 0.00 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 38724 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 101.6 | 70.6  | 131.0 |
| 131      | 97.1  | 68.3  | 126.8 |
| 166      | 132.5 | 88.3  | 163.9 |

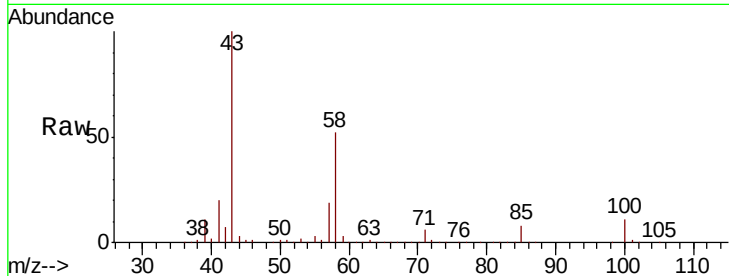




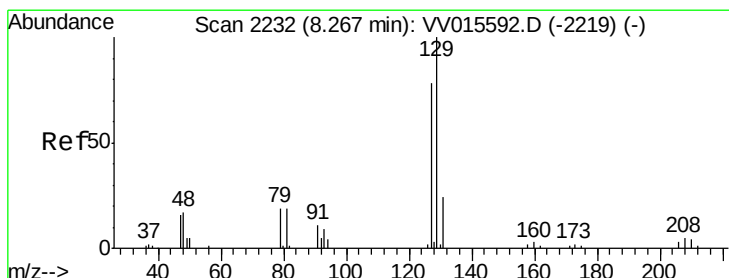
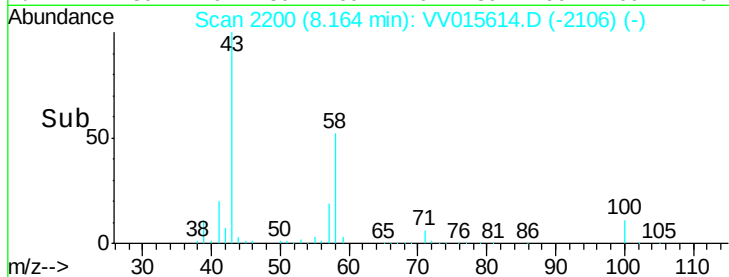
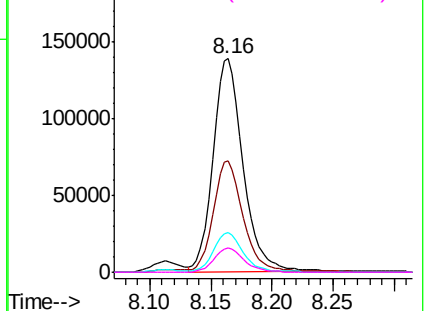
#48  
2-Hexanone  
Concen: 52.769 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. 0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 239170  
Ion Ratio Lower Upper  
43 100  
58 51.7 41.4 62.0  
57 17.7 15.0 22.4  
100 11.6 9.4 14.2

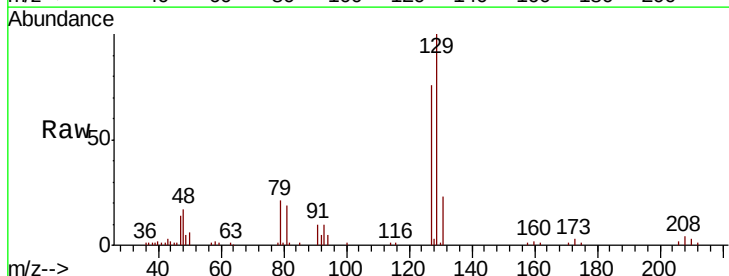


Abundance Ion 43.05 (42.75 to 43.75): VV015592.D (-2189) (-)  
Ion 58.05 (57.75 to 58.75): VV015592.D (-2189) (-)  
Ion 57.20 (56.90 to 57.90): VV015592.D (-2189) (-)  
Ion 100.15 (99.85 to 100.85): VV015592.D (-2189) (-)

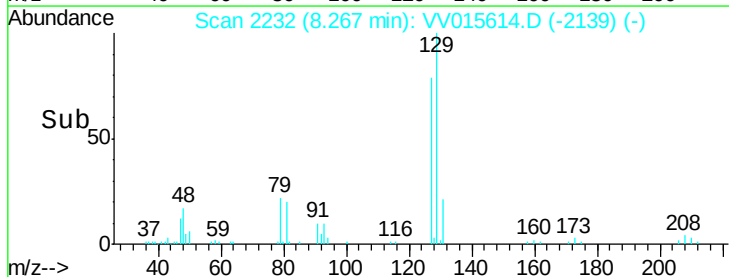
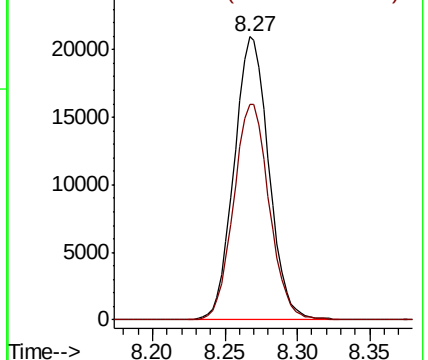


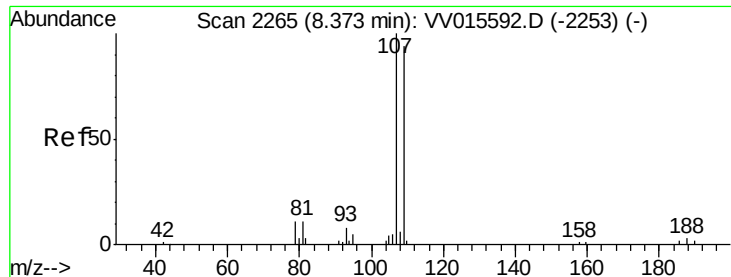
#49  
Dibromochloromethane  
Concen: 4.386 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

Tgt Ion: 129 Resp: 34887  
Ion Ratio Lower Upper  
129 100  
127 76.3 54.7 101.7



Abundance Ion 128.95 (128.65 to 129.65): VV015592.D (-2219) (-)  
Ion 126.90 (126.60 to 127.60): VV015592.D (-2219) (-)

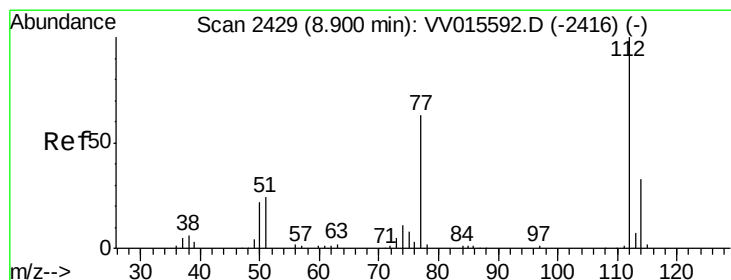
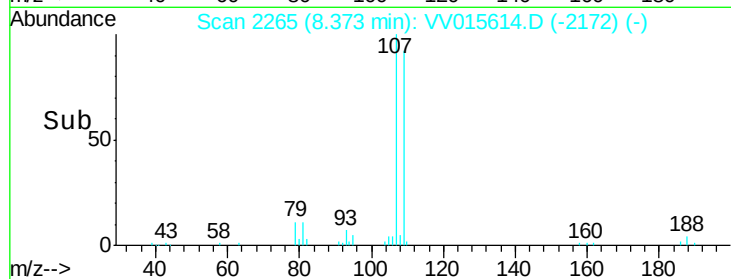
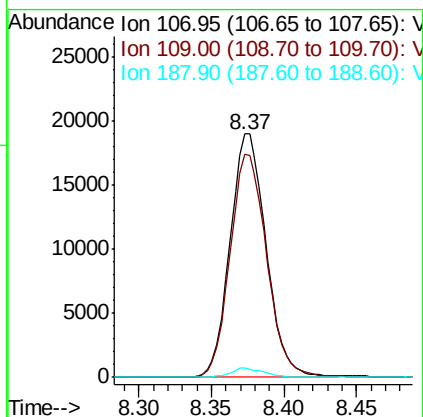
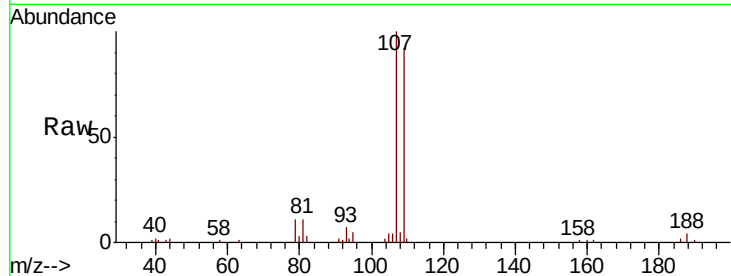




#50  
1,2-Dibromoethane  
Concen: 5.139 ug/L  
RT: 8.37 min Scan# 2265  
Delta R.T. -0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

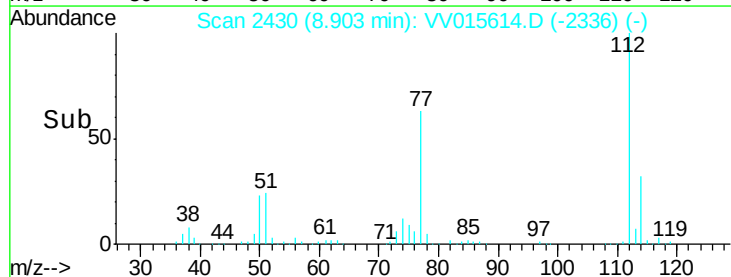
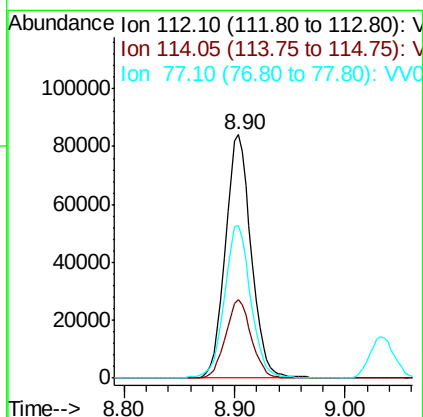
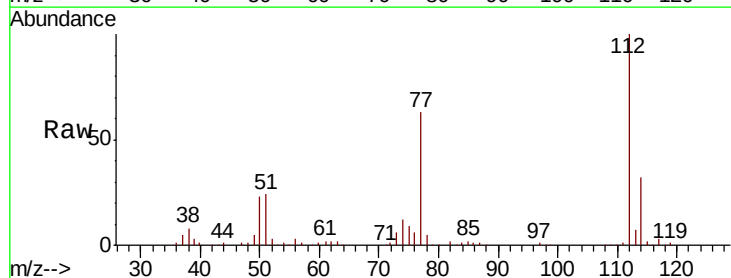
Instrument :  
MSVOA\_V  
ClientSampleId :

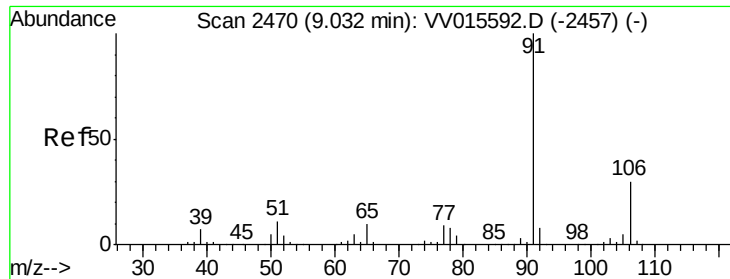
Tot Ion:107 Resp: 32709  
Ion Ratio Lower Upper  
107 100  
109 91.6 66.7 123.9  
188 3.8 2.9 4.3



#51  
Chlorobenzene  
Concen: 4.951 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

Tgt Ion:112 Resp: 136482  
Ion Ratio Lower Upper  
112 100  
114 32.2 22.9 42.5  
77 62.6 49.8 74.8





#52

Ethylbenzene

Concen: 4.979 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

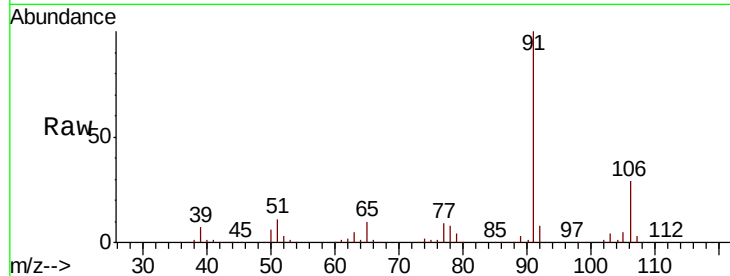
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 247835

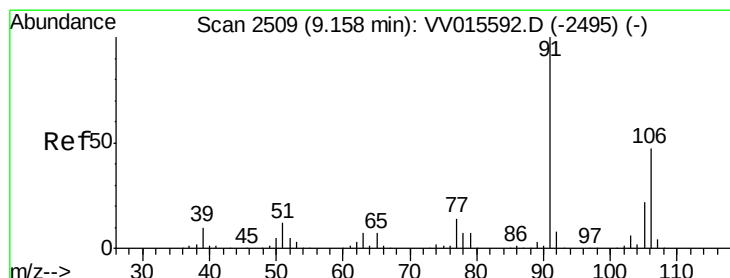
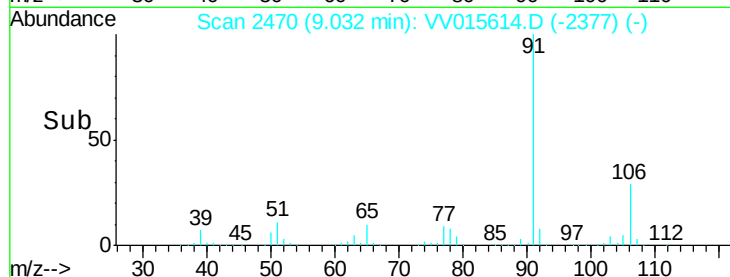
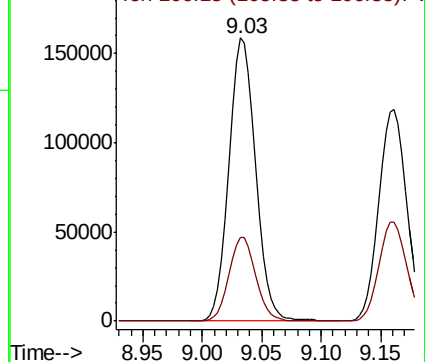
Ion Ratio Lower Upper

91 100

106 29.4 20.8 38.6



Abundance Ion 91.15 (90.85 to 91.85): VV015592.D (-2457) (-)



#53

m,p-xylene

Concen: 4.872 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV015614.D

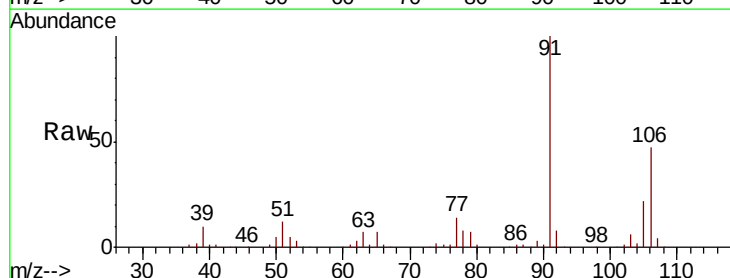
Acq: 21 Apr 2020 20:34

Tgt Ion: 106 Resp: 91595

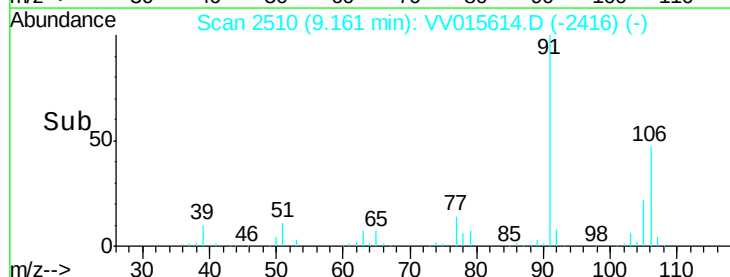
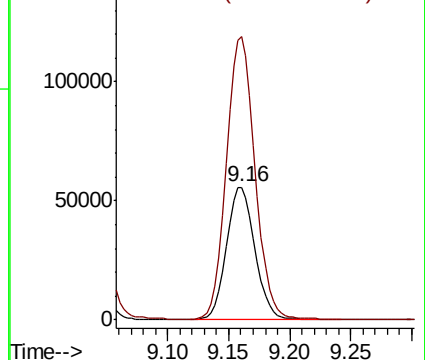
Ion Ratio Lower Upper

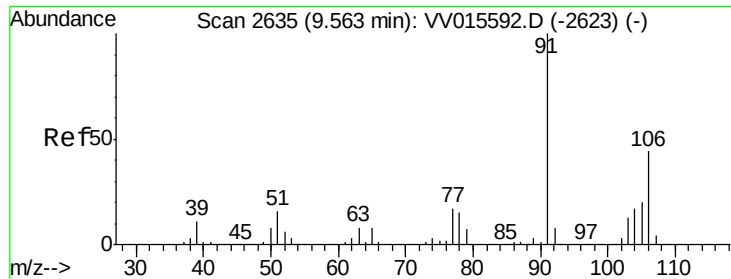
106 100

91 213.8 147.9 274.7



Abundance Ion 106.15 (105.85 to 106.85): VV015592.D (-2495) (-)

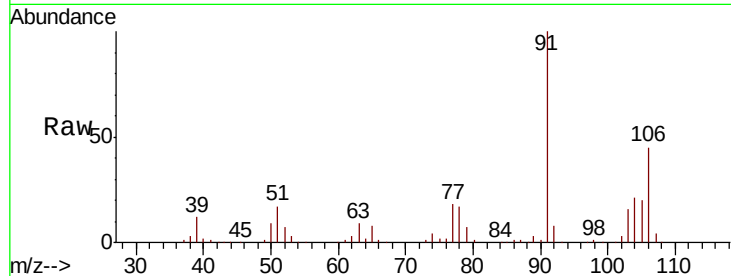




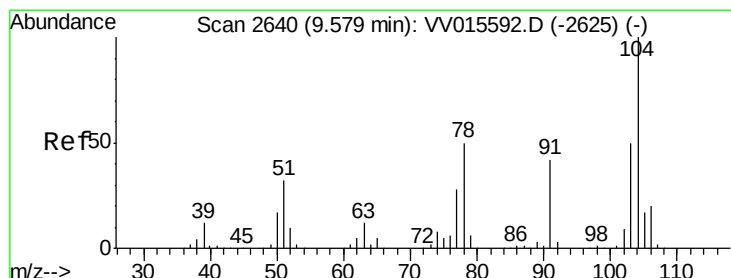
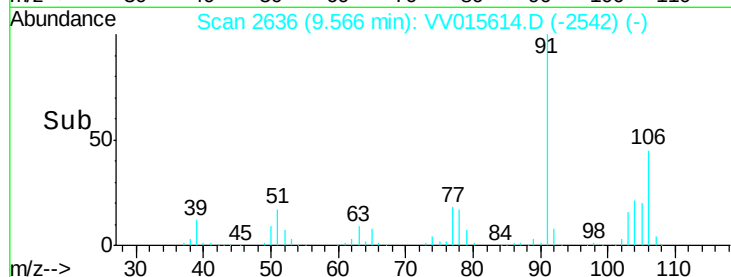
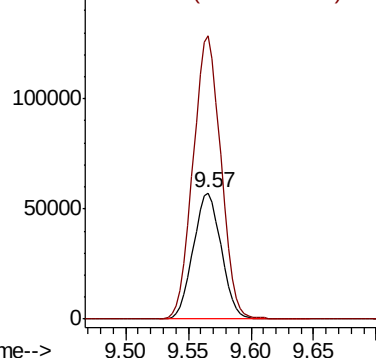
#54  
o-xylene  
Concen: 4.888 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:106 Resp: 88948  
Ion Ratio Lower Upper  
106 100  
91 224.1 154.5 286.9

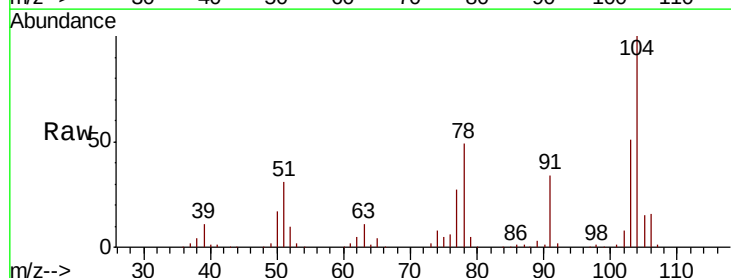


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

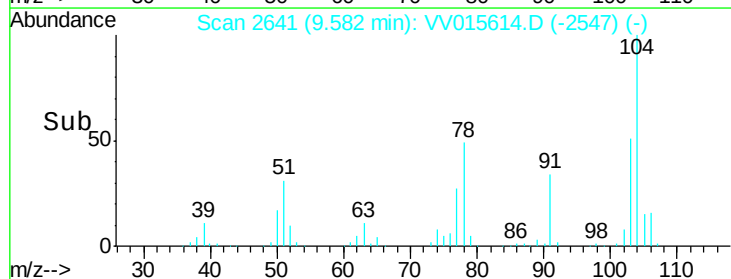
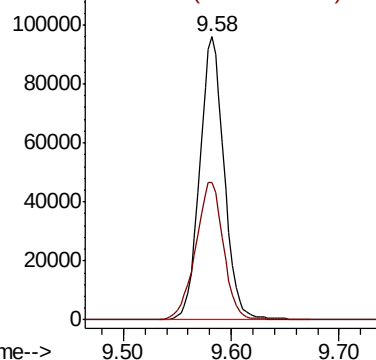


#55  
Styrene  
Concen: 4.960 ug/L  
RT: 9.58 min Scan# 2641  
Delta R.T. 0.00 min  
Lab File: VV015614.D  
Acq: 21 Apr 2020 20:34

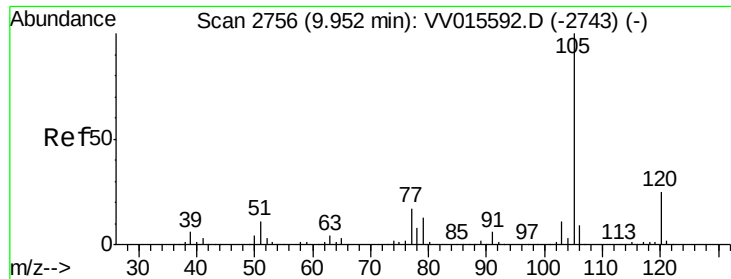
Tgt Ion:104 Resp: 151691  
Ion Ratio Lower Upper  
104 100  
78 48.7 33.5 62.3



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







#56

Isopropylbenzene

Concen: 4.939 ug/L

RT: 9.95 min Scan# 2756

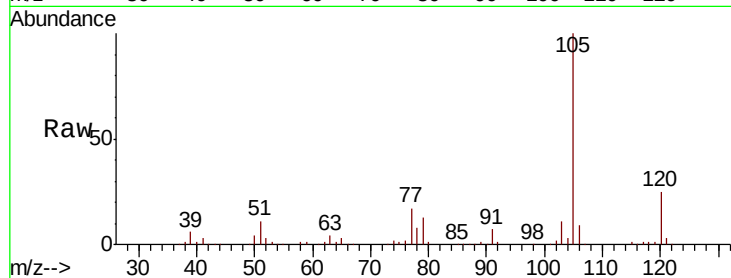
Delta R.T. -0.00 min

Lab File: VV015614.D

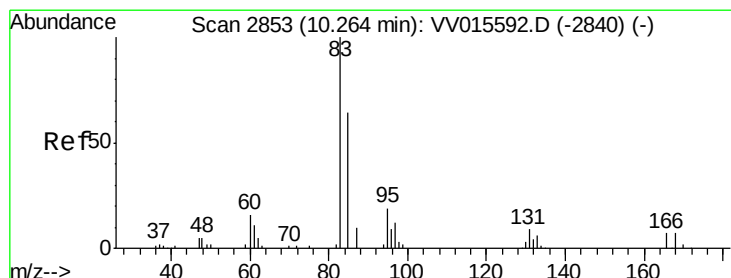
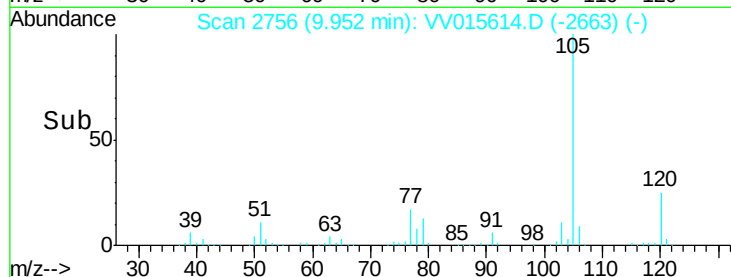
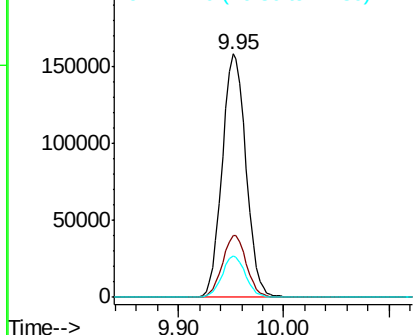
Acq: 21 Apr 2020 20:34

Instrument :  
MSVOA\_V  
ClientSampleId :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:105 | Resp: | 246387 |
| Ion Ratio   | Lower | Upper  |
| 105 100     |       |        |
| 120 25.6    | 20.7  | 31.1   |
| 77 16.9     | 13.5  | 20.3   |



Abundance Ion 105.05 (104.75 to 105.75): V  
Ion 120.10 (119.80 to 120.80): V  
Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.088 ug/L

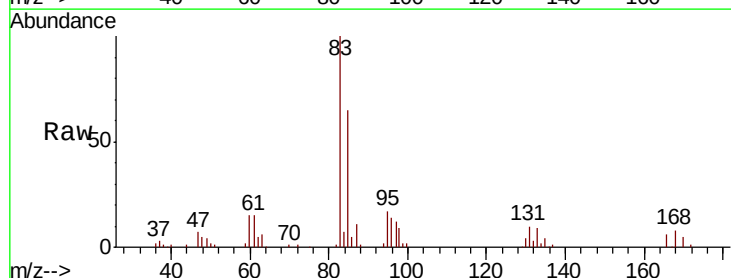
RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

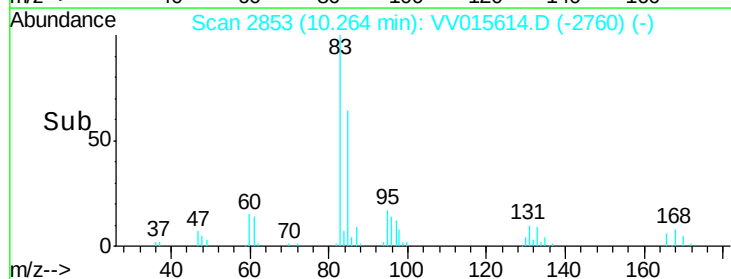
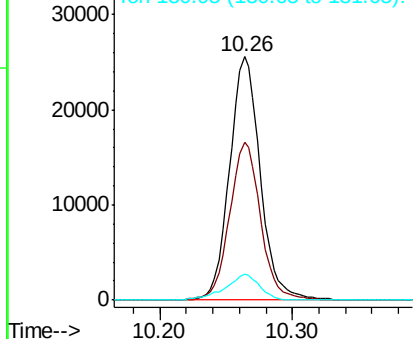
Lab File: VV015614.D

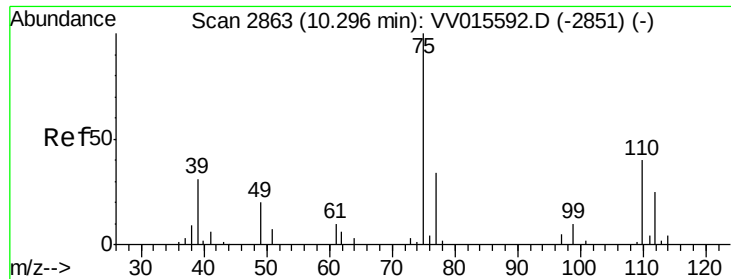
Acq: 21 Apr 2020 20:34

|             |       |       |
|-------------|-------|-------|
| Tgt Ion: 83 | Resp: | 41125 |
| Ion Ratio   | Lower | Upper |
| 83 100      |       |       |
| 85 64.7     | 44.5  | 82.7  |
| 131 10.5    | 7.5   | 11.3  |



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





#59

1,2,3-Trichloropropane

Concen: 5.356 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

Instrument :

MSVOA\_V

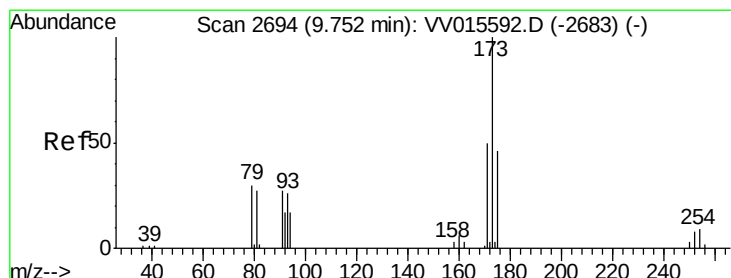
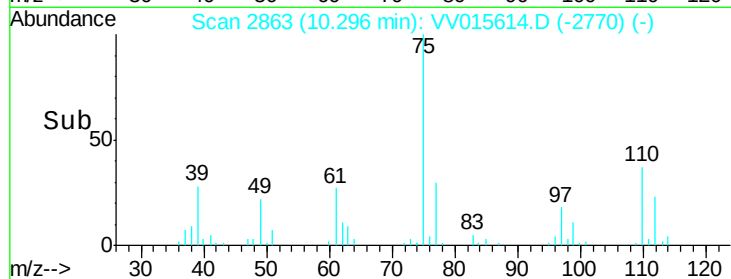
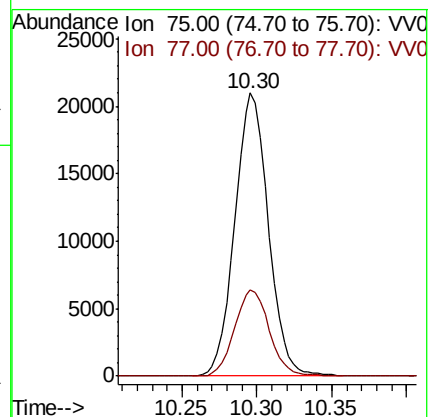
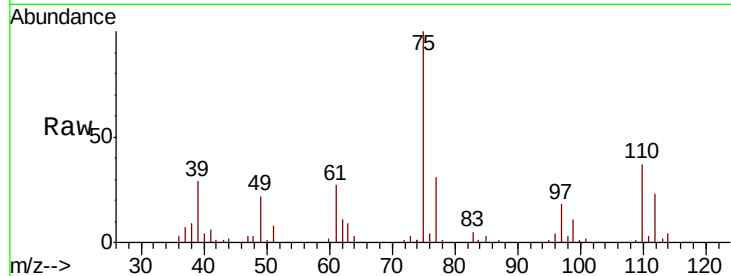
ClientSampleId :

Tot Ion: 75 Resp: 32712

Ion Ratio Lower Upper

75 100

77 31.5 25.4 38.0



#61

Bromoform

Concen: 3.319 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

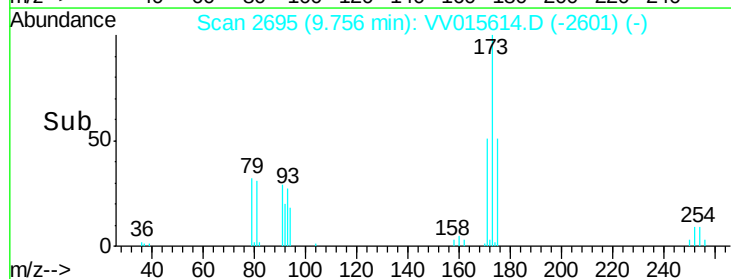
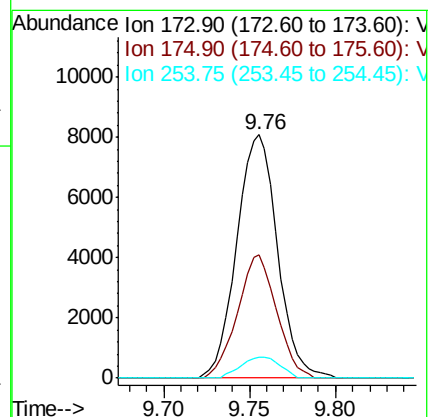
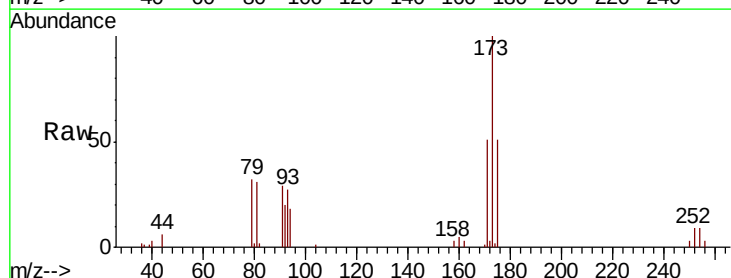
Tgt Ion: 173 Resp: 13337

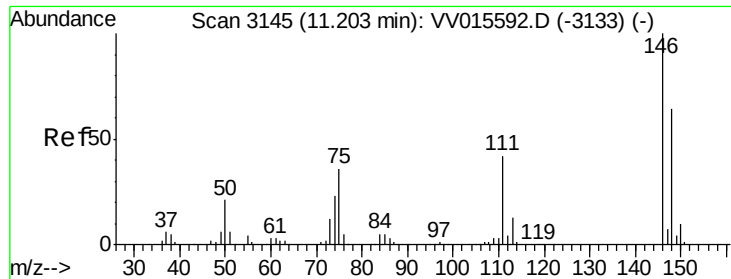
Ion Ratio Lower Upper

173 100

175 48.5 38.2 57.2

254 8.4 6.6 10.0





#62

1,3-Dichlorobenzene

Concen: 5.012 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

Instrument :

MSVOA\_V

ClientSampled :

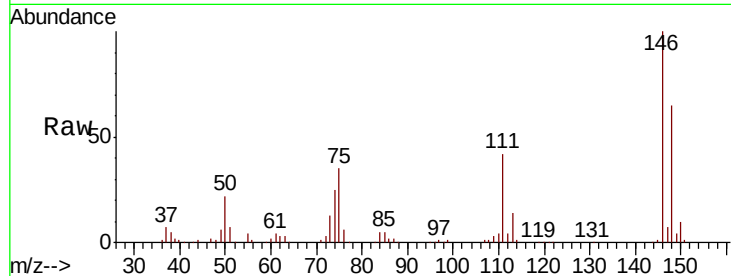
Tot Ion:146 Resp: 110708

Ion Ratio Lower Upper

146 100

111 42.3 29.3 54.5

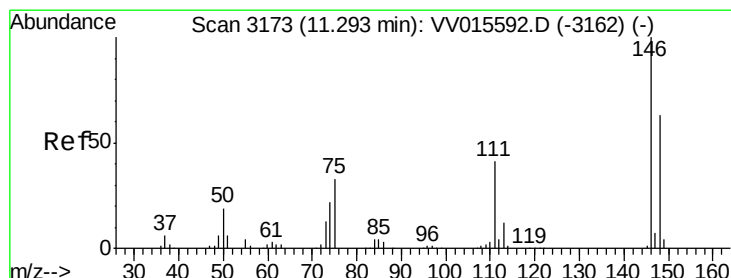
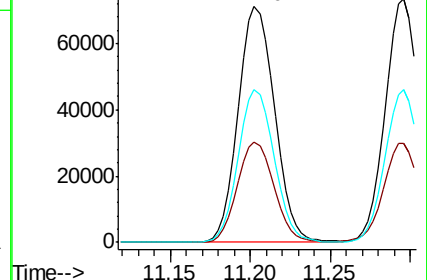
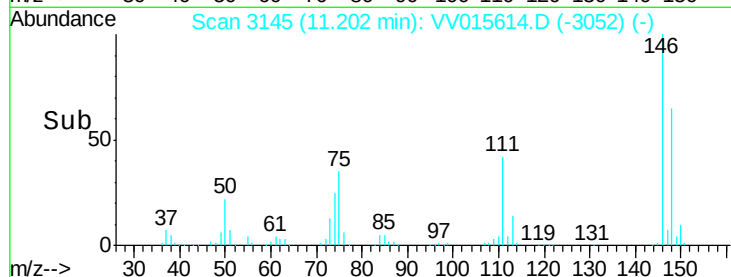
148 64.6 42.4 78.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.995 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

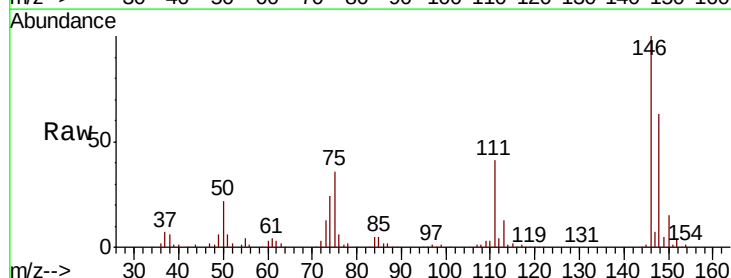
Tgt Ion:146 Resp: 112267

Ion Ratio Lower Upper

146 100

111 40.6 29.4 54.6

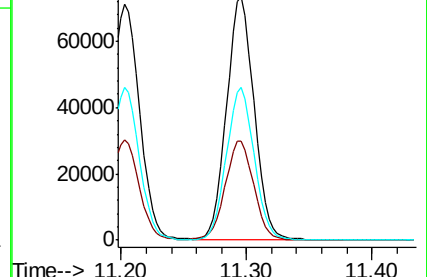
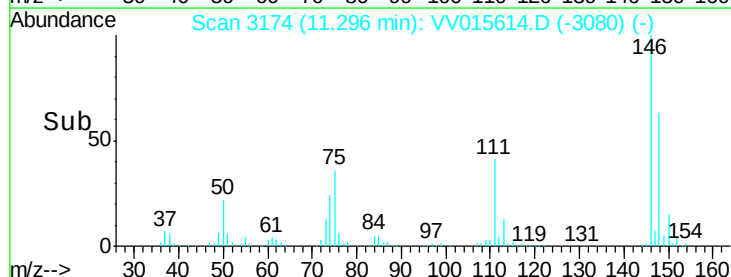
148 62.5 44.3 82.3

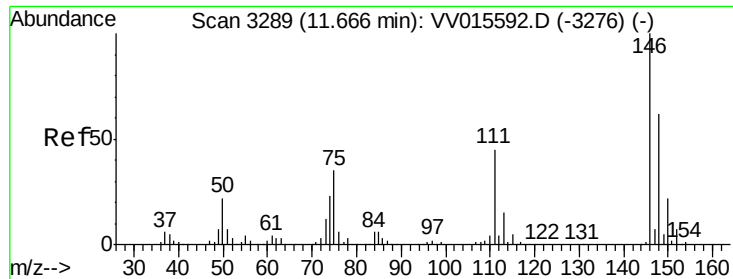


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

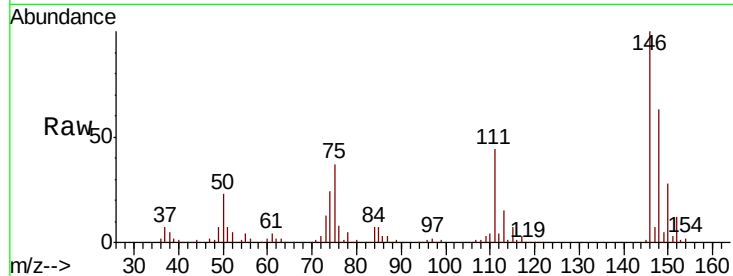




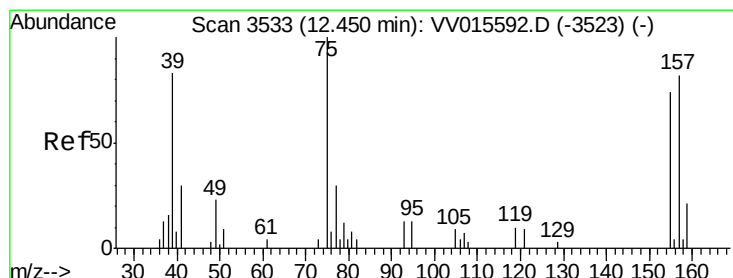
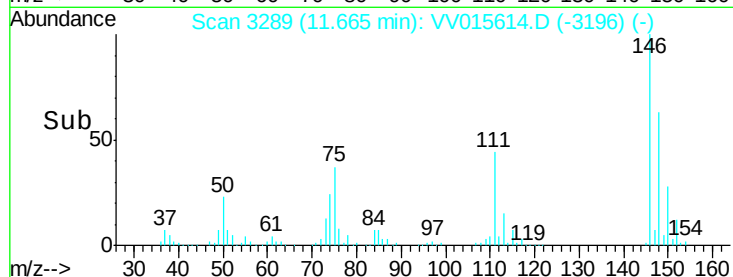
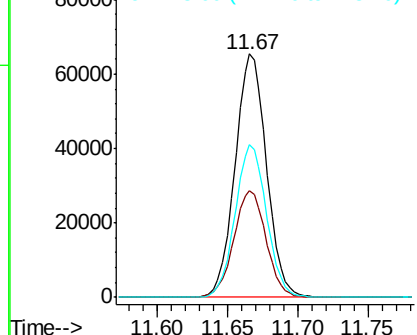
#65  
 1,2-Dichlorobenzene  
 Concen: 5.073 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. -0.00 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

Instrument :  
 MSVOA\_V  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.8  | 35.8  | 53.6  |
| 148     | 62.6  | 50.2  | 75.4  |

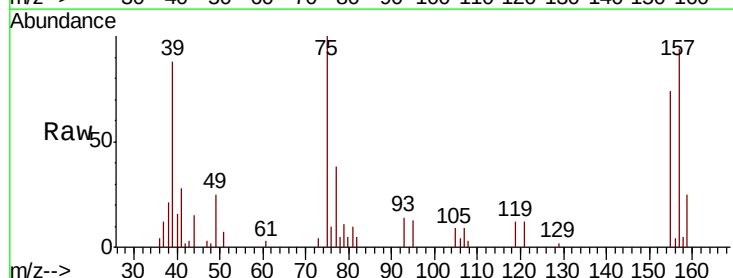


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

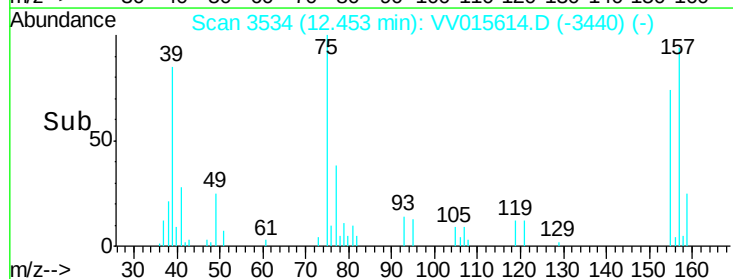
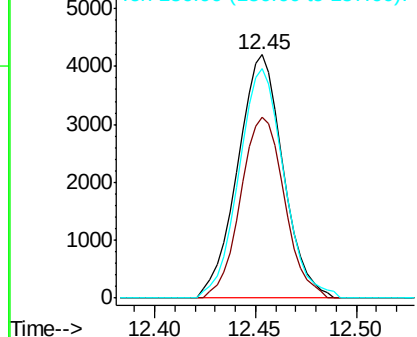


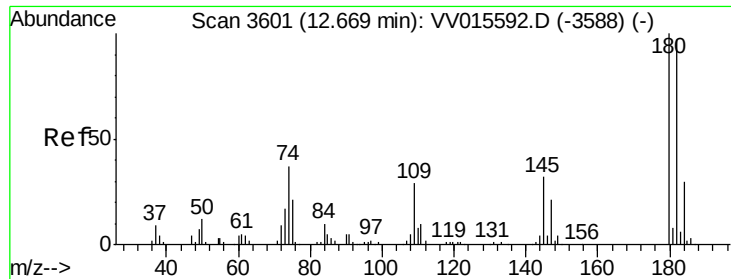
#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.309 ug/L  
 RT: 12.45 min Scan# 3534  
 Delta R.T. 0.00 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 74.2  | 60.8  | 91.2  |
| 157     | 94.2  | 75.7  | 113.5 |



Abundance Ion 75.05 (74.75 to 75.75): VV0  
 Ion 154.95 (154.65 to 155.65): V  
 Ion 156.90 (156.60 to 157.60): V

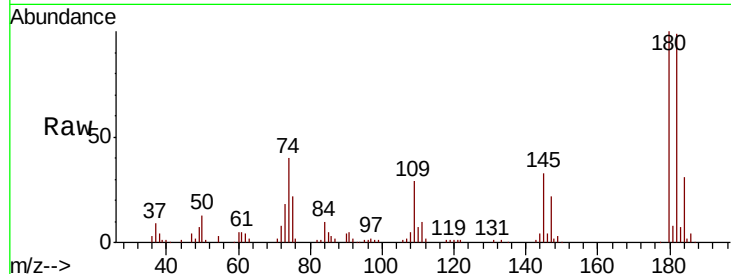




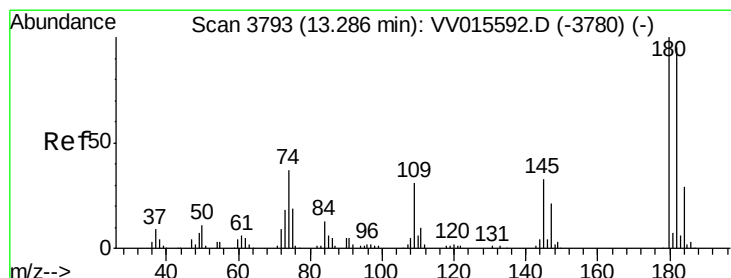
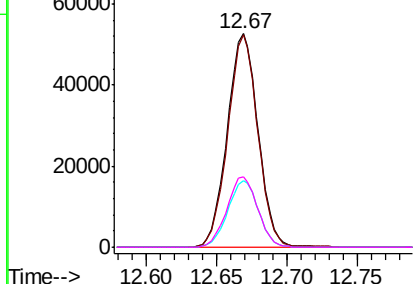
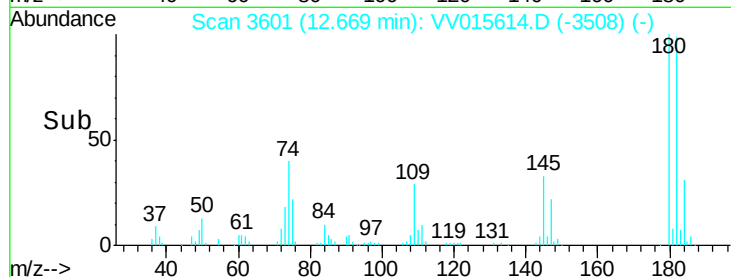
#67  
 1,3,5-Trichlorobenzene  
 Concen: 5.043 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. -0.00 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion:180 Resp: 80483  
 Ion Ratio Lower Upper  
 180 100  
 182 96.6 76.9 115.3  
 184 30.8 24.0 36.0  
 145 32.7 26.1 39.1

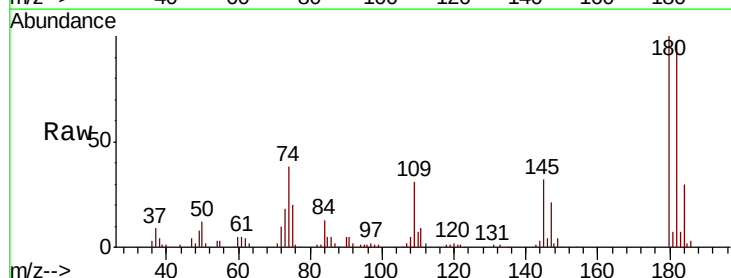


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

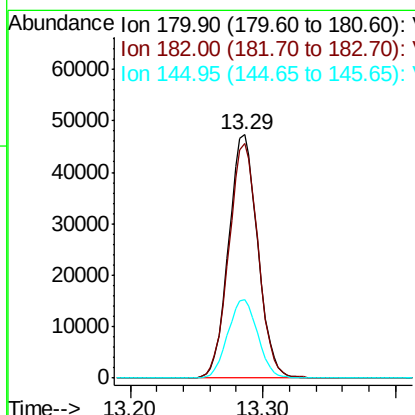
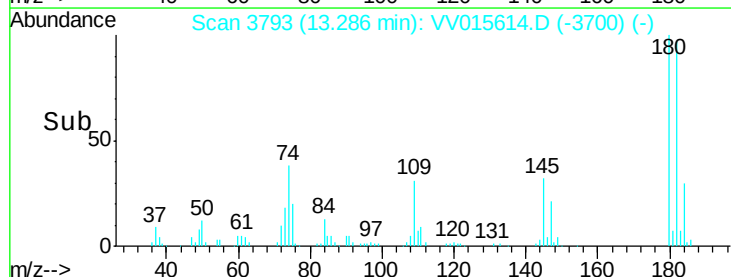


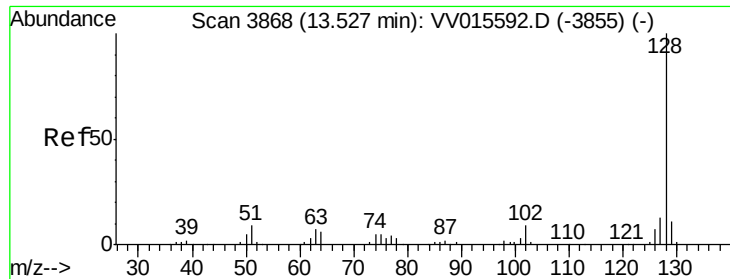
#68  
 1,2,4-trichlorobenzene  
 Concen: 5.016 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. -0.00 min  
 Lab File: VV015614.D  
 Acq: 21 Apr 2020 20:34

Tgt Ion:180 Resp: 72113  
 Ion Ratio Lower Upper  
 180 100  
 182 96.9 76.6 115.0  
 145 33.0 25.9 38.9



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





#69

Naphthalene

Concen: 4.781 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. -0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

Instrument :

MSVOA\_V

ClientSampled :

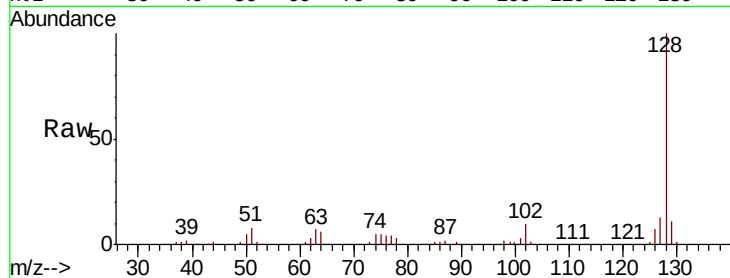
Tot Ion:128 Resp: 129515

Ion Ratio Lower Upper

128 100

129 10.9 8.6 13.0

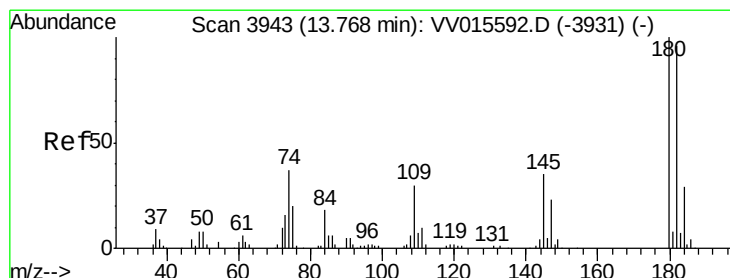
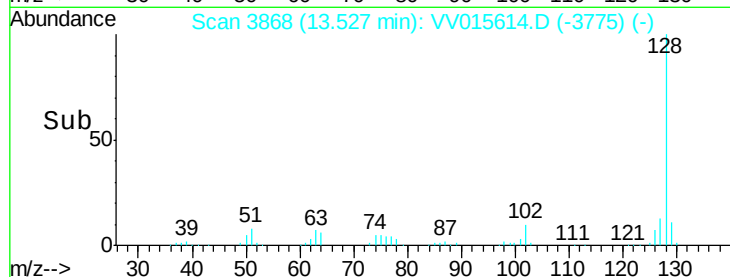
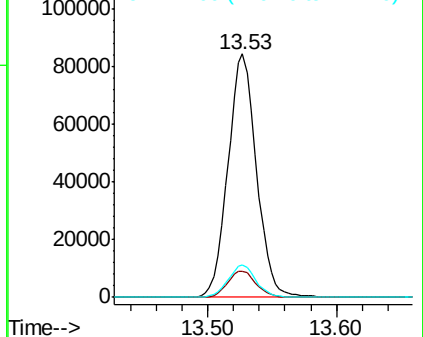
127 13.1 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.135 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VV015614.D

Acq: 21 Apr 2020 20:34

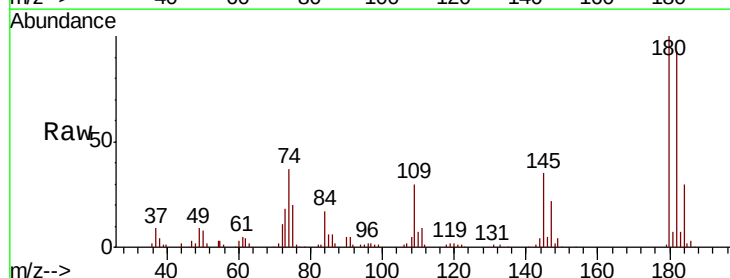
Tgt Ion:180 Resp: 65217

Ion Ratio Lower Upper

180 100

182 95.1 76.4 114.6

145 35.1 28.2 42.2



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

