

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX122719\  
 Data File : VX014330.D  
 Acq On : 27 Dec 2019 23:54  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Dec 30 05:42:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 460770   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 736392   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 664702   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 320277   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 264846   | 50.72 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.44% |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 219531   | 49.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.08%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 861597   | 49.44 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.88%  |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 306970   | 48.18 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.36%  |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 178124  | 43.211  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 260574  | 47.103  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 274899  | 47.094  | ug/l | 99     |
| 5) Bromomethane               | 1.63 | 94  | 195465  | 47.179  | ug/l | 98     |
| 6) Chloroethane               | 1.72 | 64  | 179512  | 49.827  | ug/l | 95     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 355600  | 49.211  | ug/l | 97     |
| 8) Diethyl Ether              | 2.18 | 74  | 168412  | 49.660  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 212628  | 48.815  | ug/l | 99     |
| 10) Methyl Iodide             | 2.50 | 142 | 261603  | 45.775  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 279857  | 248.013 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 217071  | 48.975  | ug/l | 98     |
| 13) Acrolein                  | 2.28 | 56  | 183481  | 284.057 | ug/l | 97     |
| 14) Allyl chloride            | 2.72 | 41  | 404784  | 51.149  | ug/l | 98     |
| 15) Acrylonitrile             | 3.13 | 53  | 731946  | 277.910 | ug/l | 100    |
| 16) Acetone                   | 2.43 | 43  | 767649  | 226.424 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.56 | 76  | 536775  | 43.719  | ug/l | 99     |
| 18) Methyl Acetate            | 2.76 | 43  | 391774  | 58.316  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73  | 771080  | 52.942  | ug/l | 98     |
| 20) Methylene Chloride        | 2.85 | 84  | 260347  | 48.765  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 237613  | 48.661  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.84 | 45  | 853092  | 54.095  | ug/l | 92     |
| 23) Vinyl Acetate             | 3.81 | 43  | 2413194 | 187.515 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 447862  | 51.045  | ug/l | 100    |
| 25) 2-Butanone                | 4.66 | 43  | 1076653 | 257.581 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 296577  | 43.536  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 283017  | 51.248  | ug/l | 98     |
| 28) Bromochloromethane        | 5.01 | 49  | 188603  | 55.840  | ug/l | 96     |
| 29) Tetrahydrofuran           | 5.12 | 42  | 651631  | 278.724 | ug/l | 99     |
| 30) Chloroform                | 5.20 | 83  | 438419  | 52.711  | ug/l | 97     |
| 31) Cyclohexane               | 5.58 | 56  | 391387  | 50.155  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 361093  | 50.939  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 320285  | 47.402  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.82 | 43  | 390013  | 52.270  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 301203  | 48.933  | ug/l | 95     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Dec 30 05:42:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 382224   | 45.814  | ug/l   | 96       |
| 40) Benzene                    | 6.14  | 78   | 1018058  | 48.969  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.03  | 41   | 220107   | 53.166  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 346621   | 49.185  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 645777   | 52.297  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 288887   | 50.308  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 271731   | 50.994  | ug/l   | 98       |
| 46) Dibromomethane             | 7.65  | 93   | 171189   | 48.591  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.89  | 83   | 334199   | 50.368  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.76  | 41   | 315718   | 52.214  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 112339   | 912.952 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 2023494  | 260.929 | ug/l   | 100      |
| 52) Toluene                    | 8.78  | 92   | 635574   | 48.367  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 365528   | 50.241  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 415214   | 51.227  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 266871   | 50.672  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 428359   | 51.778  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 449010   | 50.672  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 830535   | 265.278 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 1564730  | 250.647 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.58  | 129  | 267628   | 51.122  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 273828   | 50.816  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.33  | 164  | 392125   | 66.668  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 685546   | 48.506  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 253673   | 50.269  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.25 | 91   | 1205340  | 49.606  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.35 | 106  | 914051   | 97.807  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 448313   | 48.913  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 779785   | 50.313  | ug/l   | 100      |
| 71) Bromoform                  | 10.85 | 173  | 207083   | 51.051  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.01 | 105  | 1164605  | 51.646  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 556759   | 52.673  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 375182   | 47.990  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 461060   | 66.309  | ug/l   | 88       |
| 77) Bromobenzene               | 11.25 | 156  | 307347   | 49.538  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.35 | 91   | 1323238  | 52.315  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 794775   | 51.691  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 965661   | 50.883  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 129238   | 52.462  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 907582   | 50.888  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 834828   | 45.202  | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 978219   | 51.470  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 1124798  | 51.589  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 1032854  | 51.788  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 534649   | 49.169  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 534310   | 48.326  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 876077   | 51.481  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 181630   | 50.702  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 538905   | 49.232  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 84062    | 48.589  | ug/l   | 96       |

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Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 31 Sample Multiplier: 1

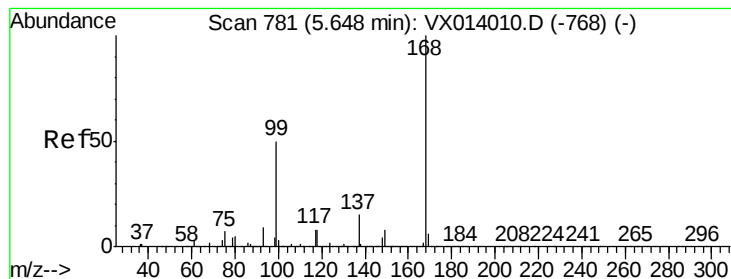
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Quant Time: Dec 30 05:42:18 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 353479   | 49.684 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 163941   | 47.947 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 1121576  | 53.657 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 362916   | 51.675 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

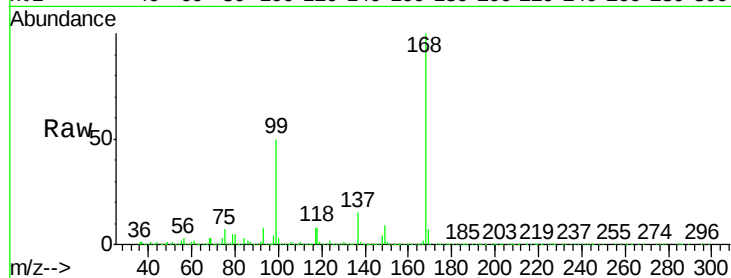
VSTDCCC050

Tgt Ion:168 Resp: 460770

Ion Ratio Lower Upper

168 100

99 49.4 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

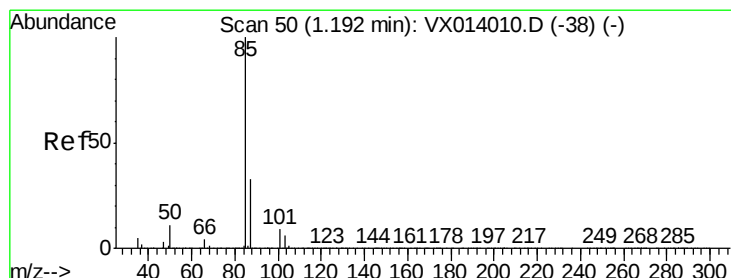
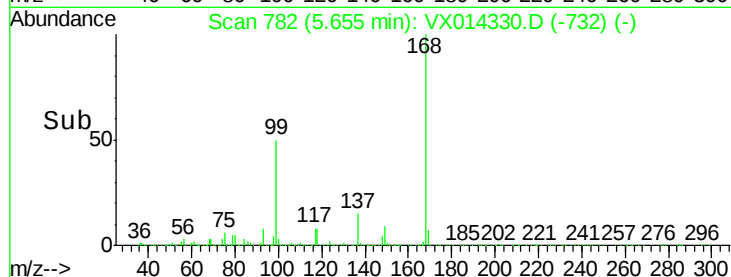
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 43.211 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014330.D

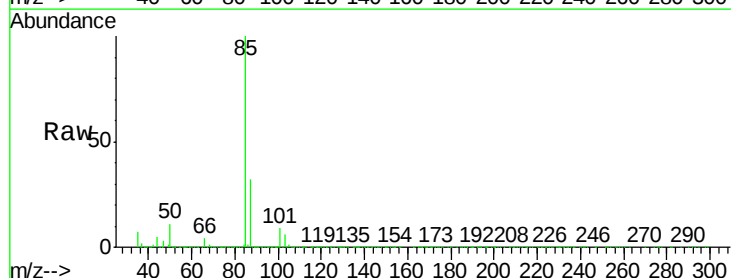
Acq: 27 Dec 2019 23:54

Tgt Ion: 85 Resp: 178124

Ion Ratio Lower Upper

85 100

87 32.2 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

200000

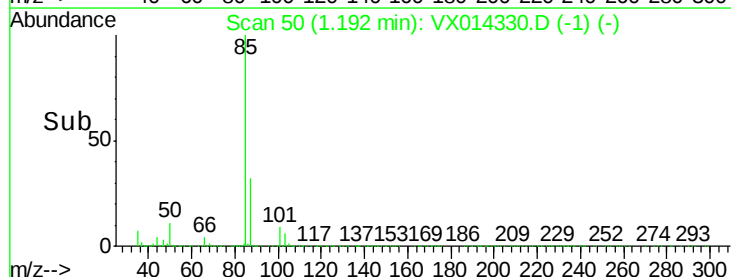
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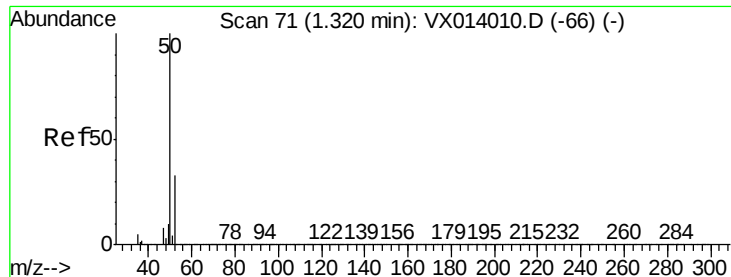
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Time-->





#3

Chloromethane

Concen: 47.103 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

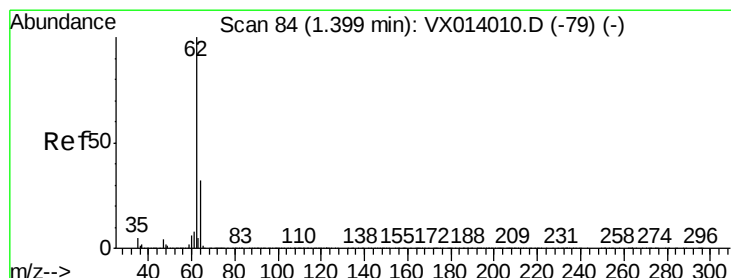
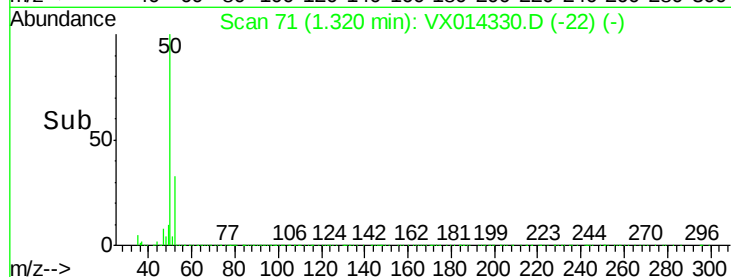
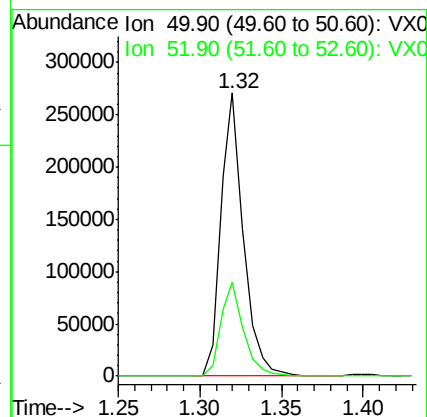
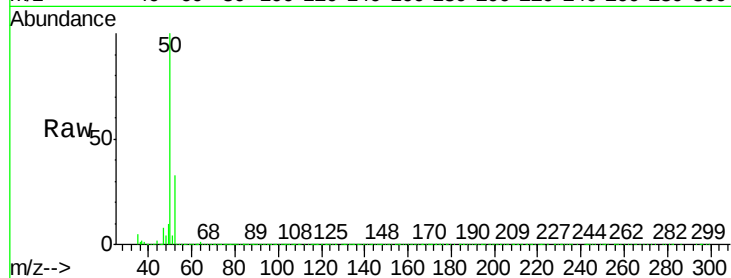
VSTDCCC050

Tgt Ion: 50 Resp: 260574

Ion Ratio Lower Upper

50 100

52 33.4 26.2 39.4



#4

Vinyl Chloride

Concen: 47.094 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX014330.D

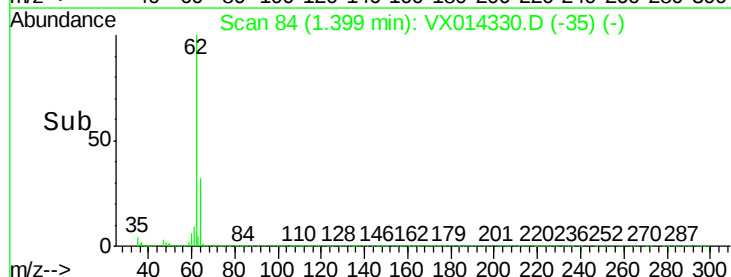
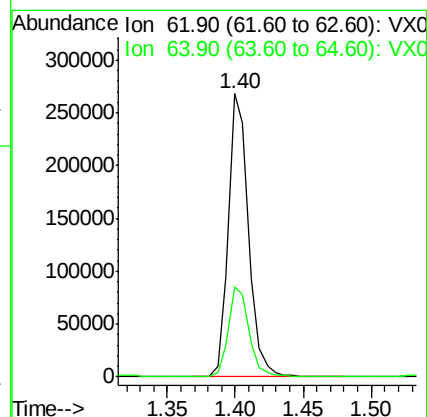
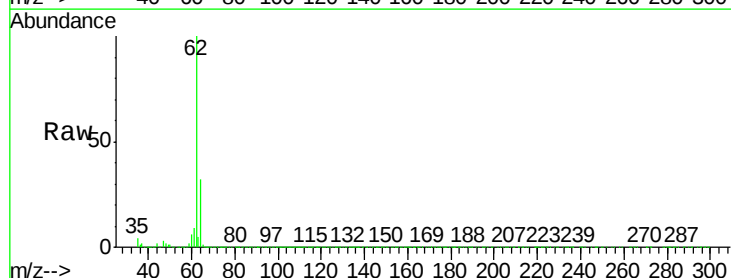
Acq: 27 Dec 2019 23:54

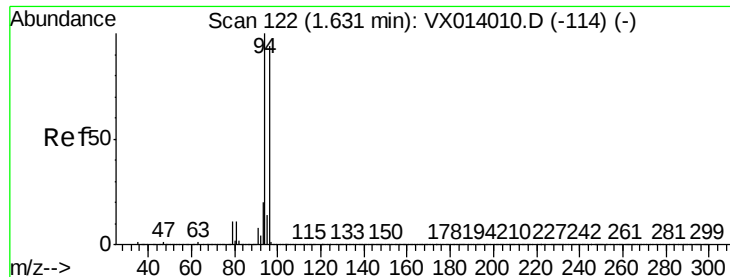
Tgt Ion: 62 Resp: 274899

Ion Ratio Lower Upper

62 100

64 31.8 25.7 38.5





#5

Bromomethane

Concen: 47.179 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

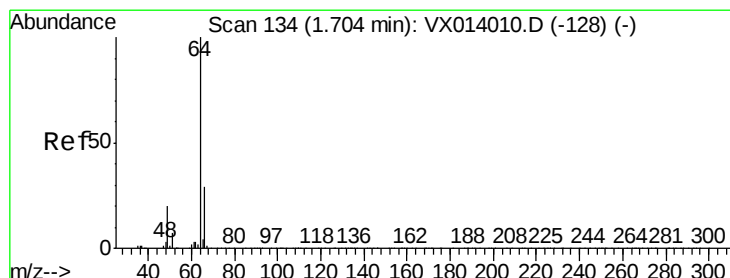
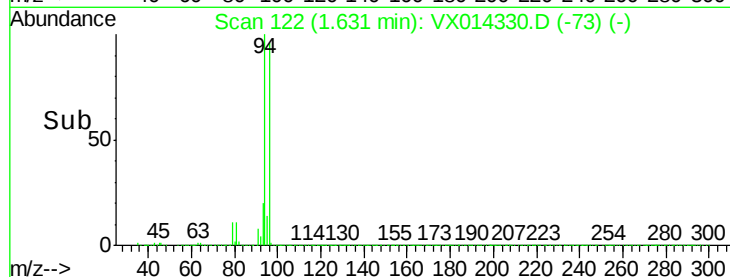
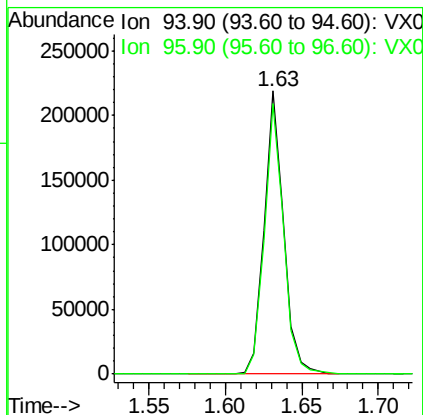
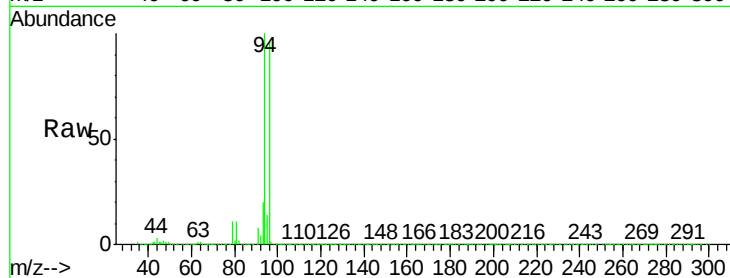
VSTDCCC050

Tgt Ion: 94 Resp: 195465

Ion Ratio Lower Upper

94 100

96 95.7 75.2 112.8



#6

Chloroethane

Concen: 49.827 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX014330.D

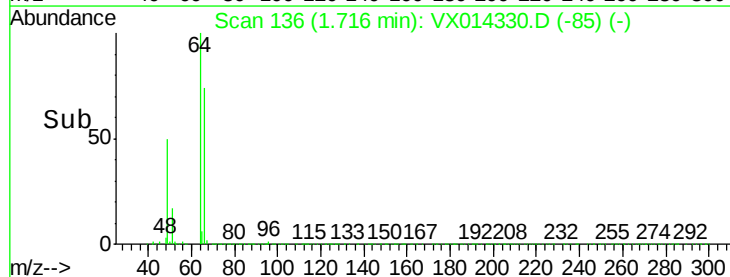
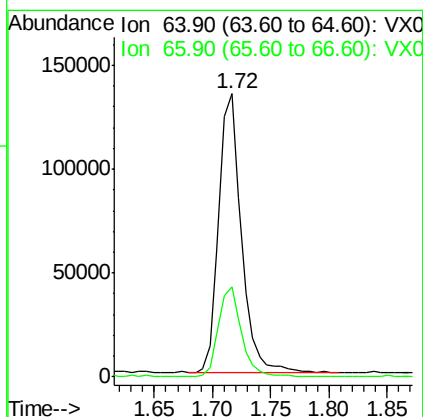
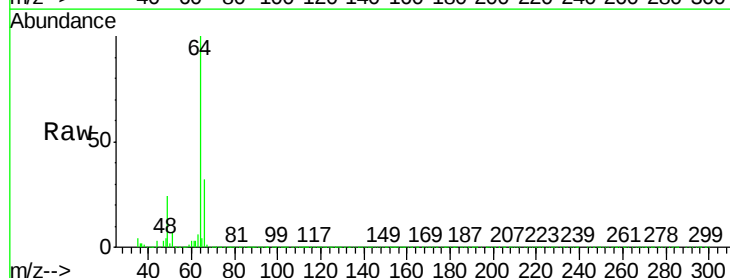
Acq: 27 Dec 2019 23:54

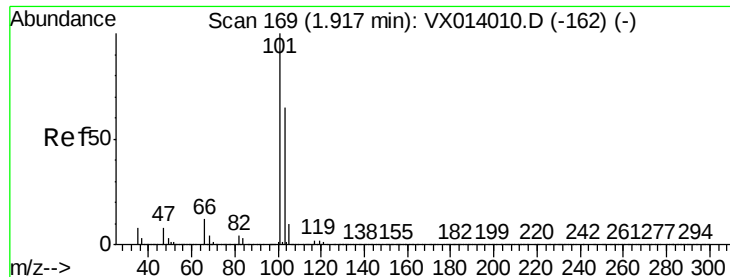
Tgt Ion: 64 Resp: 179512

Ion Ratio Lower Upper

64 100

66 32.1 23.4 35.2



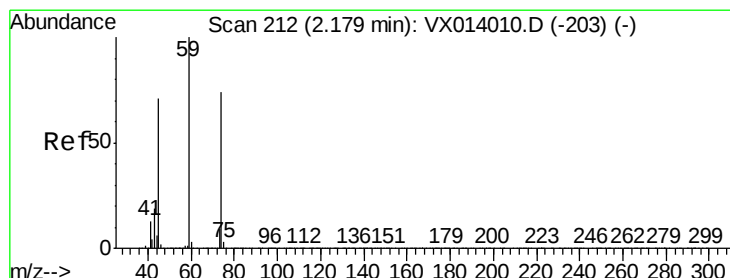
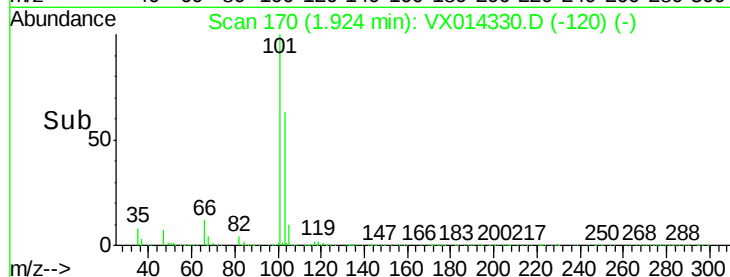
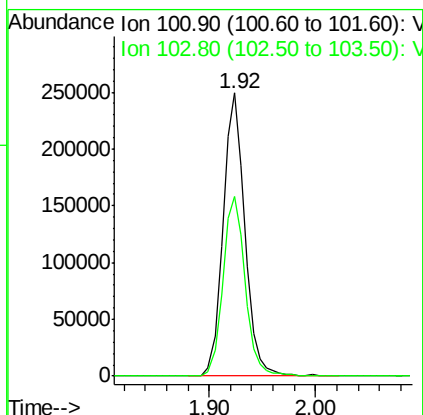
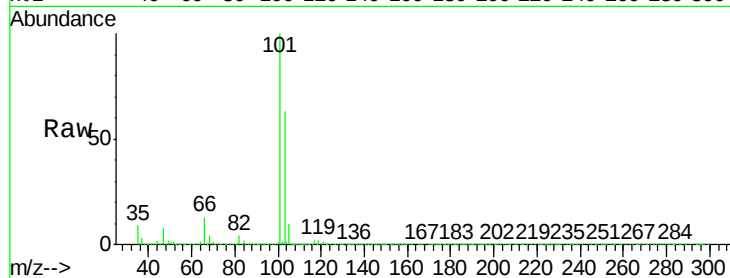


#7

Trichlorofluoromethane  
Concen: 49.211 ug/l  
RT: 1.92 min Scan# 170  
Delta R.T. 0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

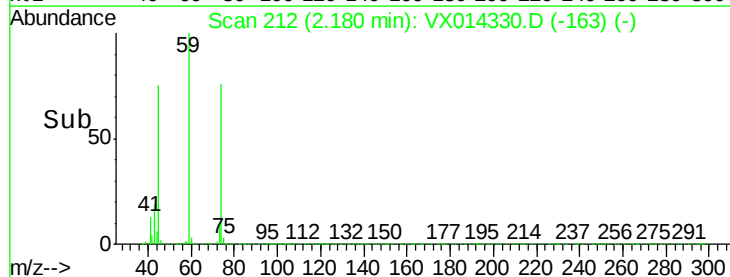
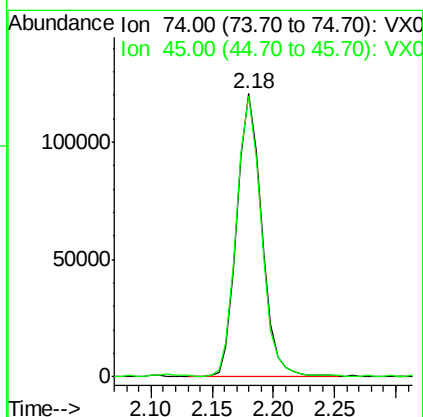
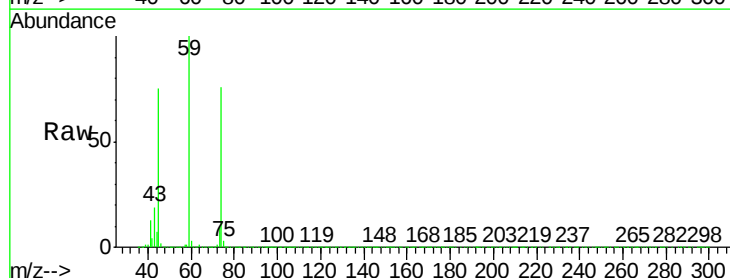
Tgt Ion:101 Resp: 355600  
Ion Ratio Lower Upper  
101 100  
103 63.3 52.2 78.4

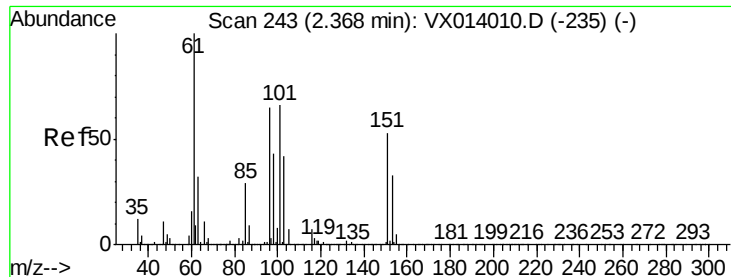


#8

Diethyl Ether  
Concen: 49.660 ug/l  
RT: 2.18 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 74 Resp: 168412  
Ion Ratio Lower Upper  
74 100  
45 99.3 48.1 144.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.815 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

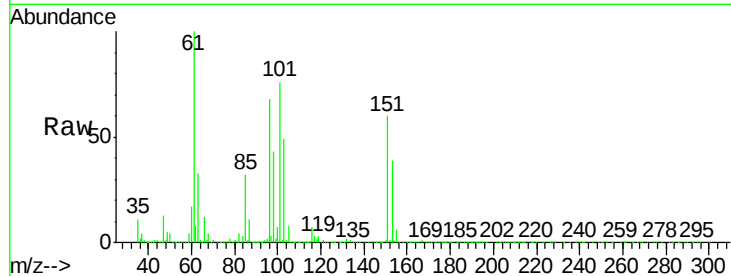
Tgt Ion:101 Resp: 212628

Ion Ratio Lower Upper

101 100

85 41.7 33.7 50.5

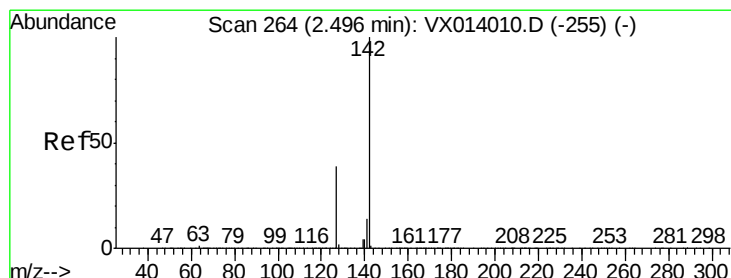
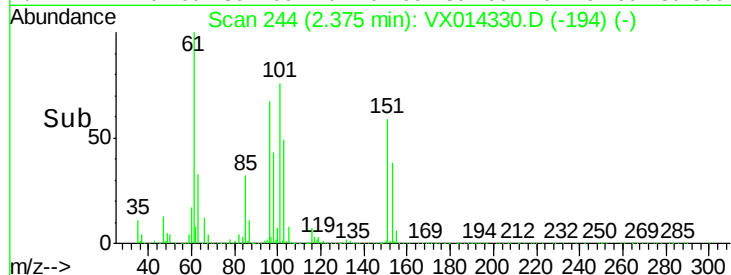
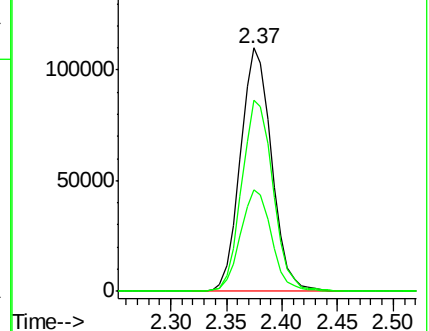
151 79.9 64.5 96.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 45.775 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

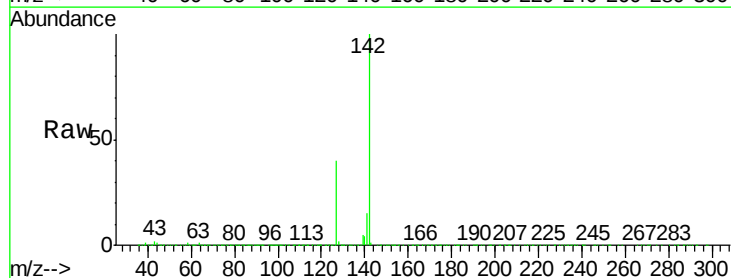
Tgt Ion:142 Resp: 261603

Ion Ratio Lower Upper

142 100

127 38.9 31.6 47.4

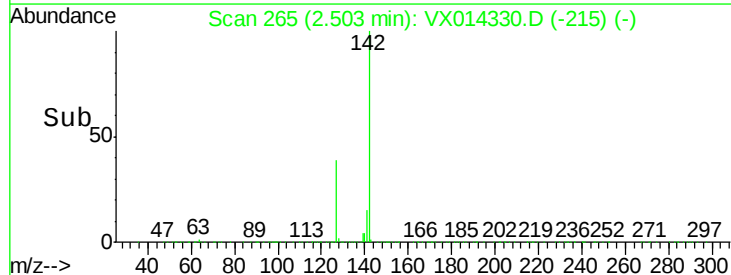
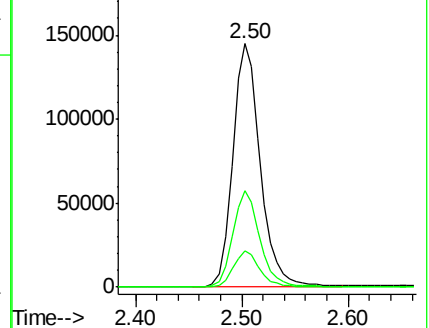
141 14.1 11.6 17.4

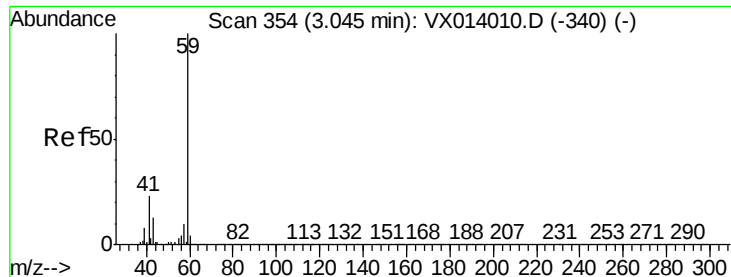


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



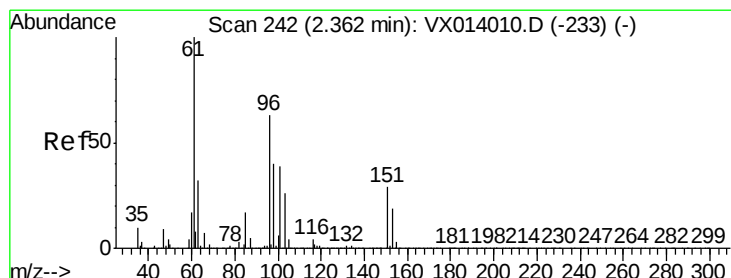
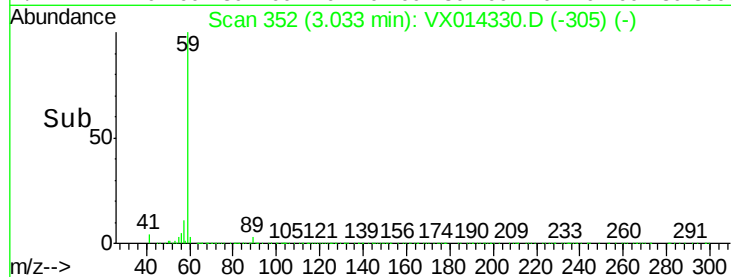
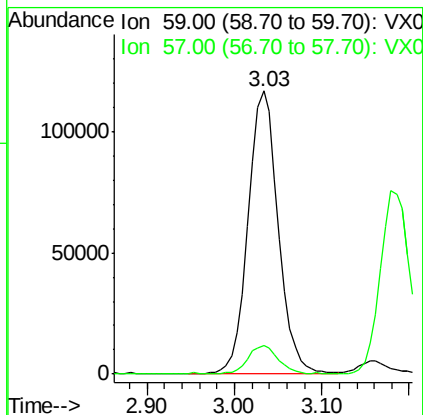
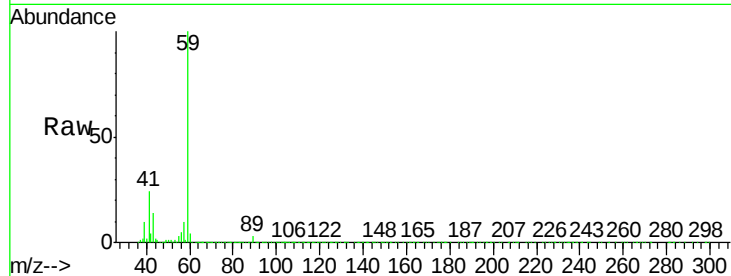


#11

Tert butyl alcohol  
Concen: 248.013 ug/l  
RT: 3.03 min Scan# 352  
Delta R.T. -0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

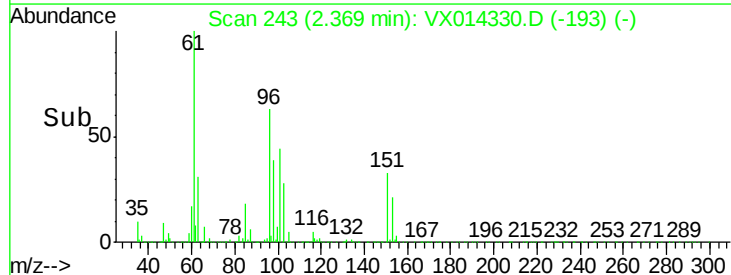
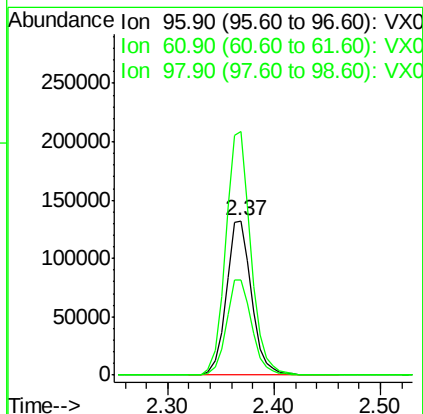
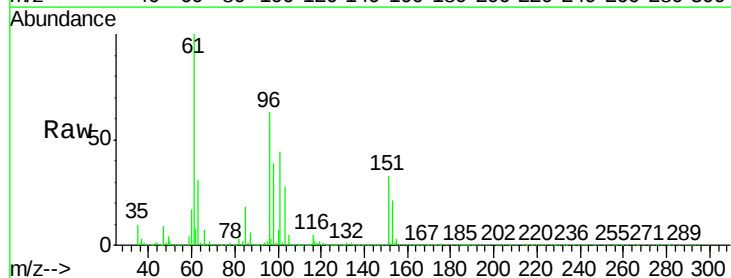
Tgt Ion: 59 Resp: 279857  
Ion Ratio Lower Upper  
59 100  
57 9.8 8.4 12.6

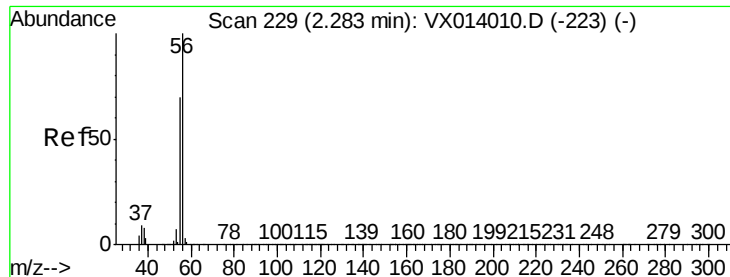


#12

1,1-Dichloroethene  
Concen: 48.975 ug/l  
RT: 2.37 min Scan# 243  
Delta R.T. 0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 96 Resp: 217071  
Ion Ratio Lower Upper  
96 100  
61 157.9 127.9 191.9  
98 61.8 50.5 75.7

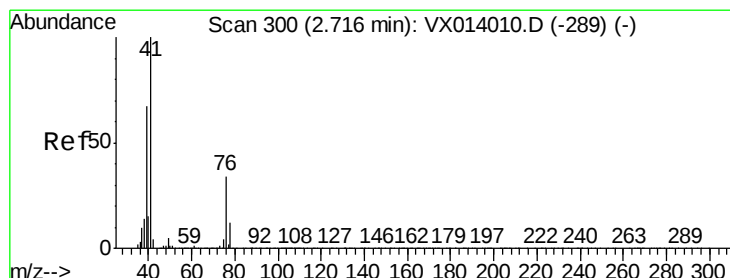
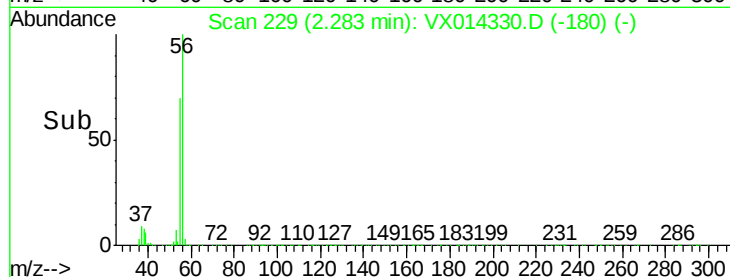
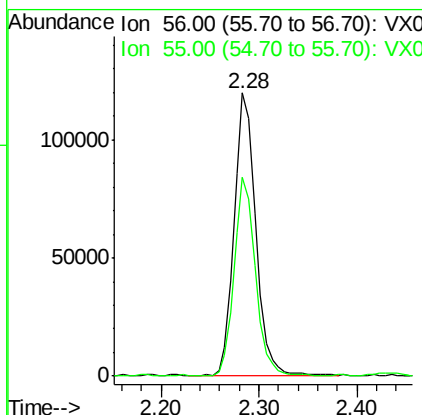
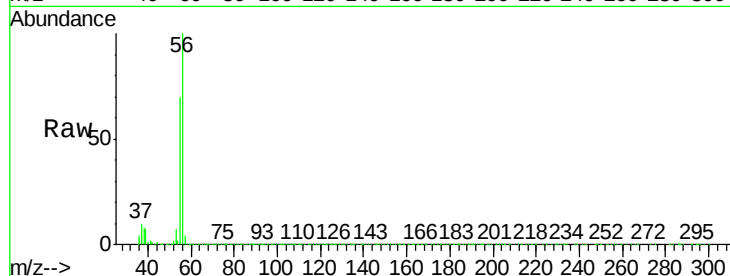




#13  
Acrolein  
Concen: 284.057 ug/l  
RT: 2.28 min Scan# 229  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

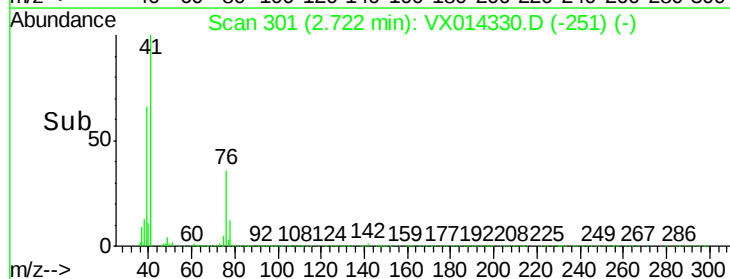
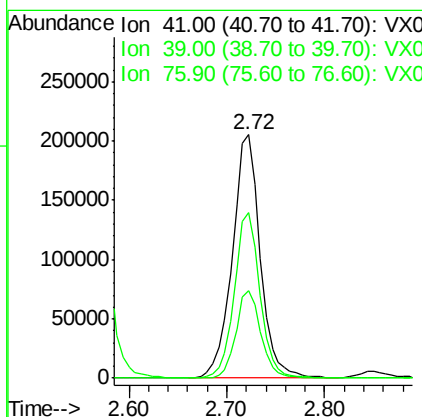
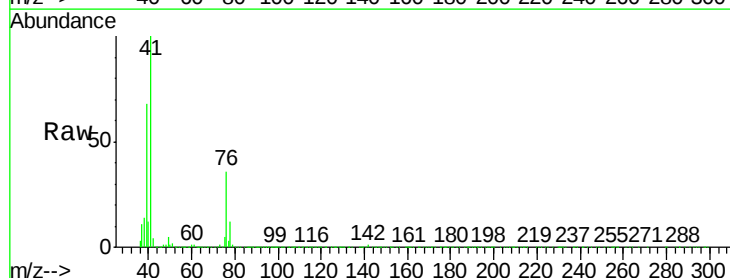
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

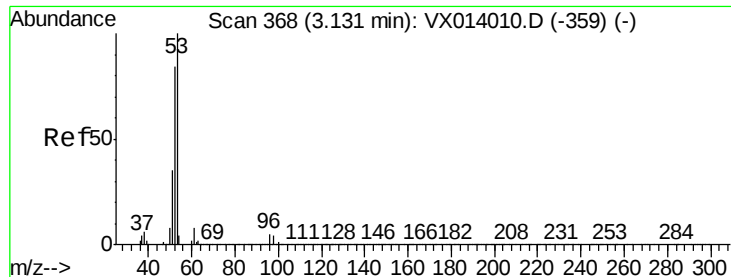
Tgt Ion: 56 Resp: 183481  
Ion Ratio Lower Upper  
56 100  
55 68.5 56.9 85.3



#14  
Allyl chloride  
Concen: 51.149 ug/l  
RT: 2.72 min Scan# 301  
Delta R.T. 0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 41 Resp: 404784  
Ion Ratio Lower Upper  
41 100  
39 62.4 51.8 77.8  
76 31.8 25.9 38.9





#15

Acrylonitrile

Concen: 277.910 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

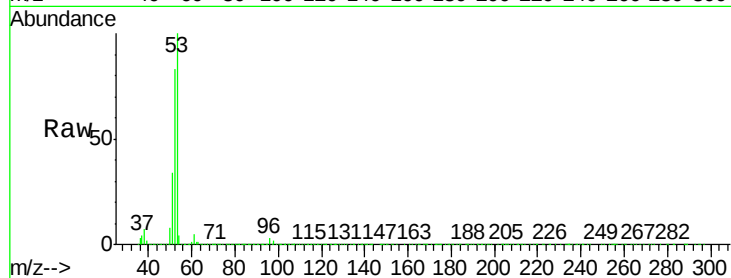
Tgt Ion: 53 Resp: 731946

Ion Ratio Lower Upper

53 100

52 82.7 66.5 99.7

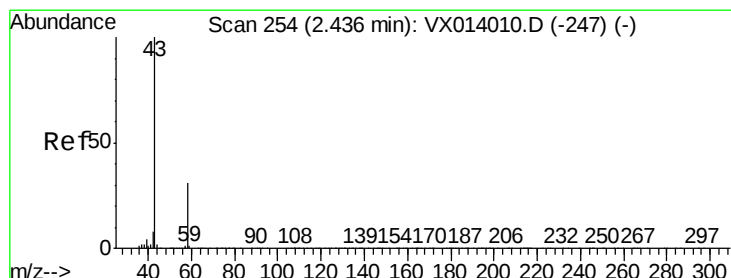
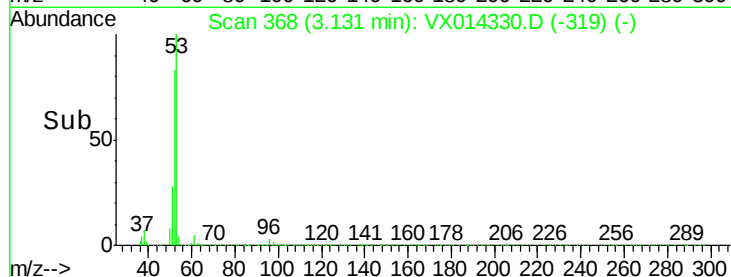
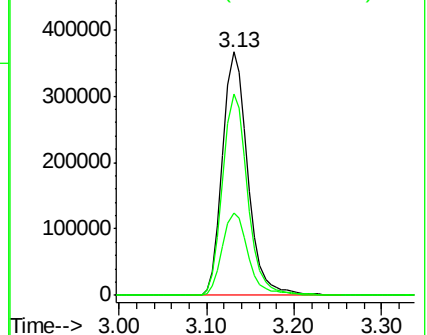
51 35.1 28.1 42.1



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 226.424 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014330.D

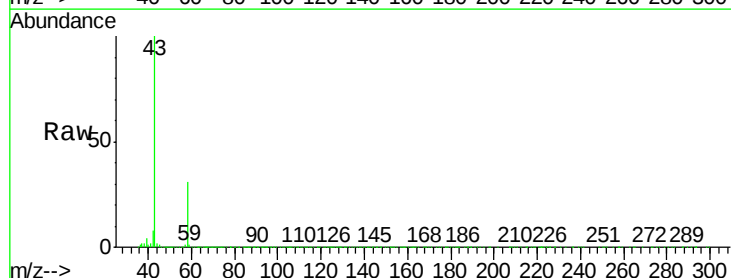
Acq: 27 Dec 2019 23:54

Tgt Ion: 43 Resp: 767649

Ion Ratio Lower Upper

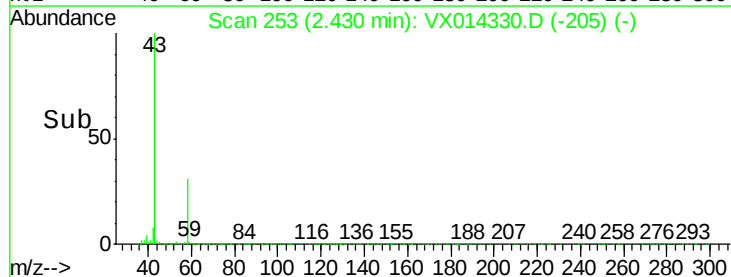
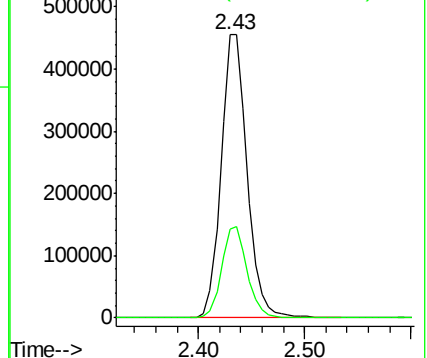
43 100

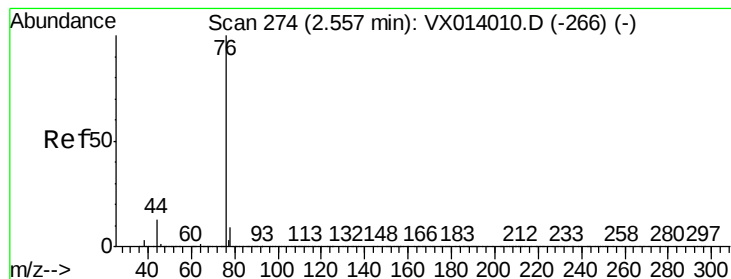
58 31.2 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 43.719 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

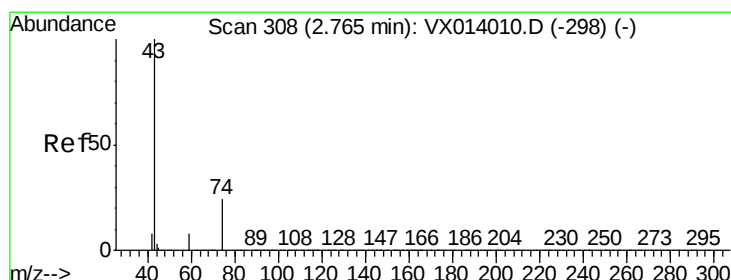
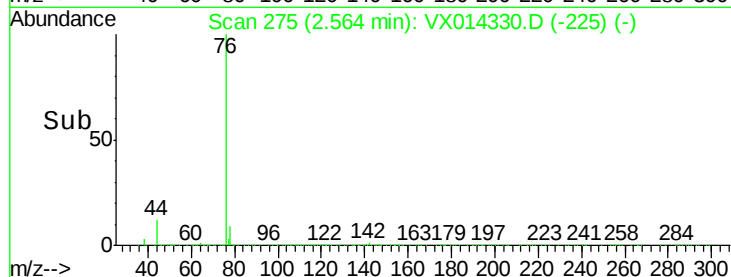
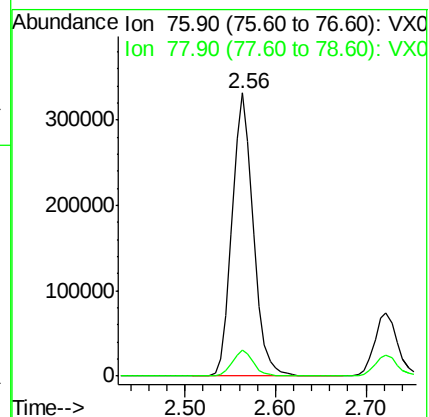
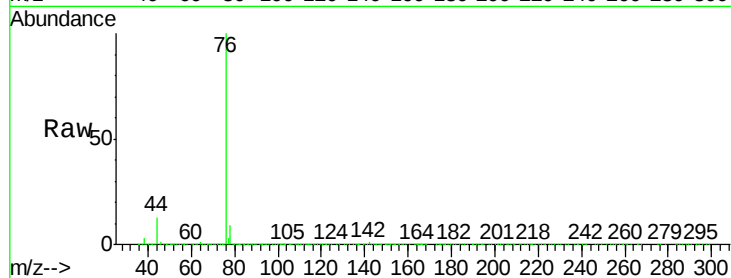
VSTDCCC050

Tgt Ion: 76 Resp: 536775

Ion Ratio Lower Upper

76 100

78 9.4 7.2 10.8



#18

Methyl Acetate

Concen: 58.316 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014330.D

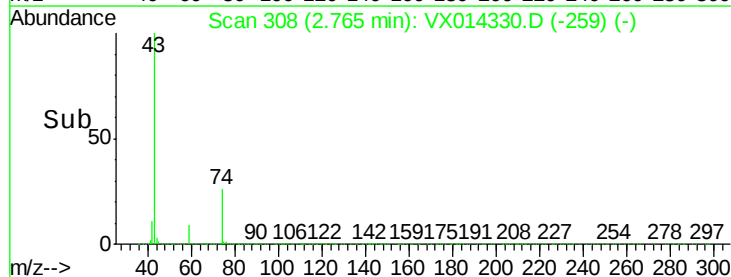
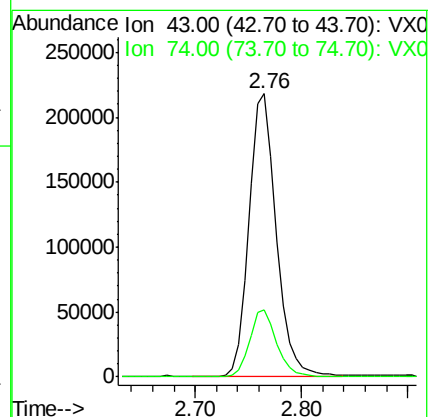
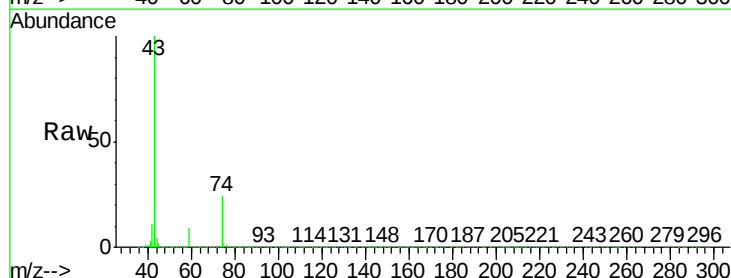
Acq: 27 Dec 2019 23:54

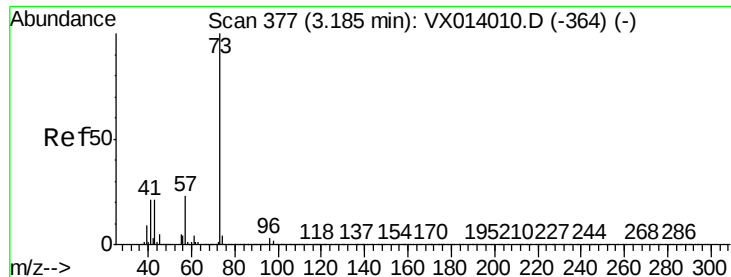
Tgt Ion: 43 Resp: 391774

Ion Ratio Lower Upper

43 100

74 23.6 19.5 29.3

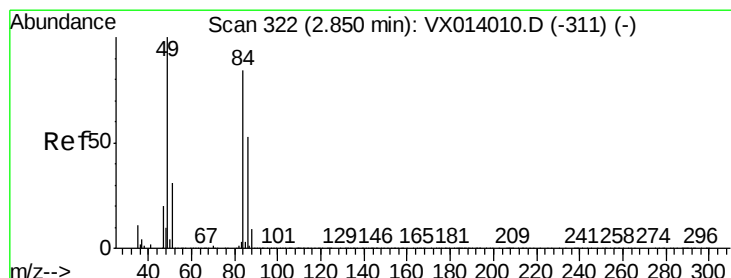
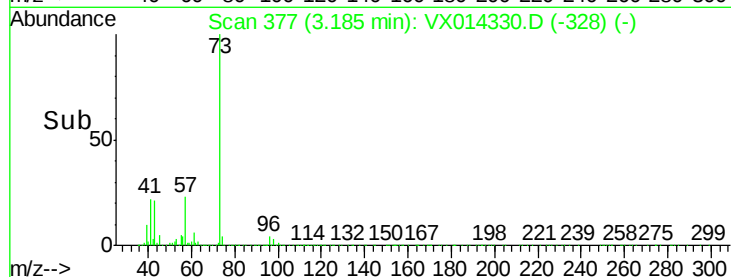
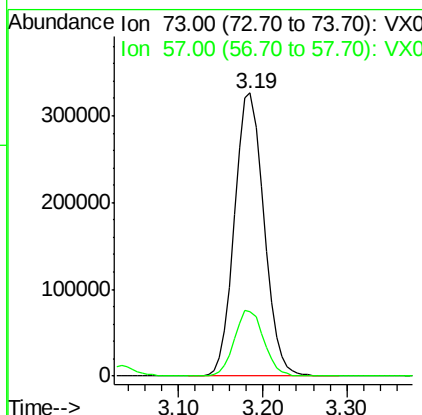
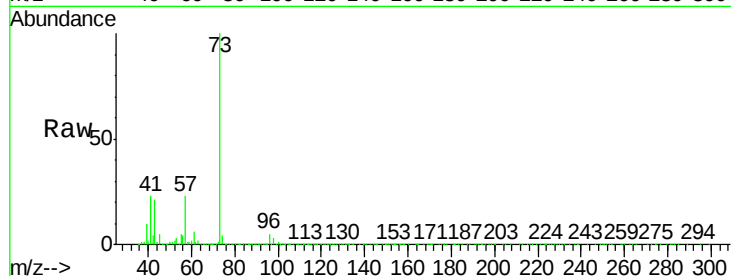




#19  
Methyl tert-butyl Ether  
Concen: 52.942 ug/l  
RT: 3.19 min Scan# 377  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

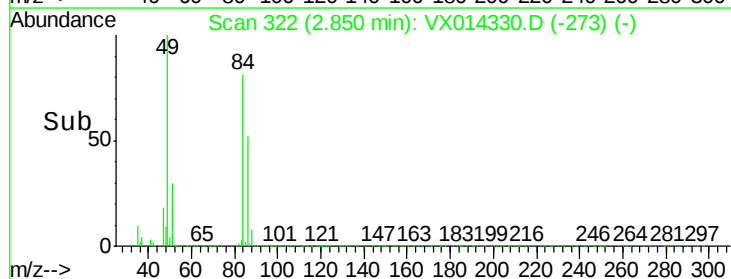
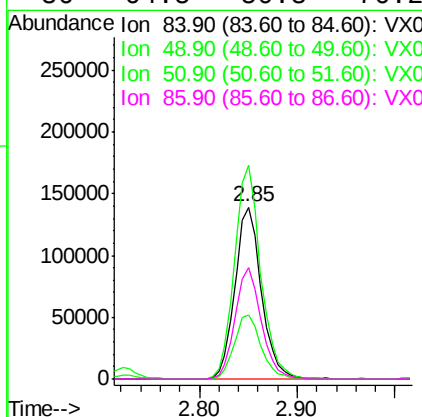
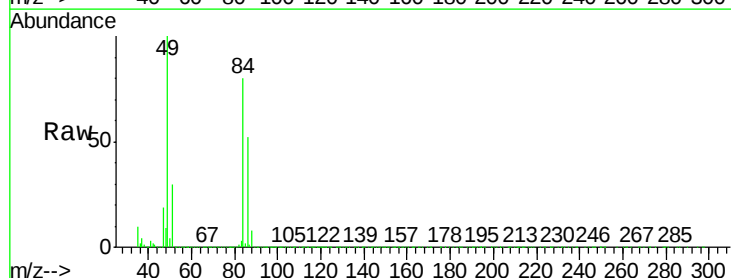
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 73 Resp: 771080  
Ion Ratio Lower Upper  
73 100  
57 22.7 18.8 28.2



#20  
Methylene Chloride  
Concen: 48.765 ug/l  
RT: 2.85 min Scan# 322  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 84 Resp: 260347  
Ion Ratio Lower Upper  
84 100  
49 124.3 95.8 143.6  
51 36.9 29.8 44.8  
86 64.5 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 48.661 ug/l

RT: 3.15 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

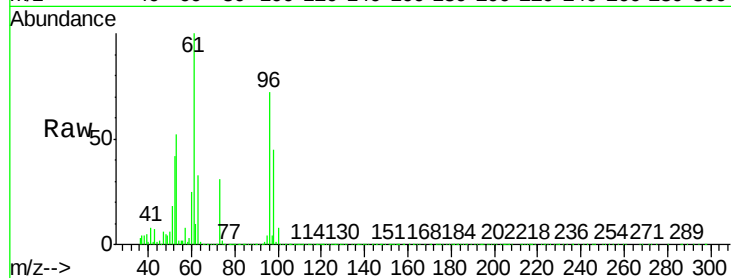
Tgt Ion: 96 Resp: 237613

Ion Ratio Lower Upper

96 100

61 138.5 108.3 162.5

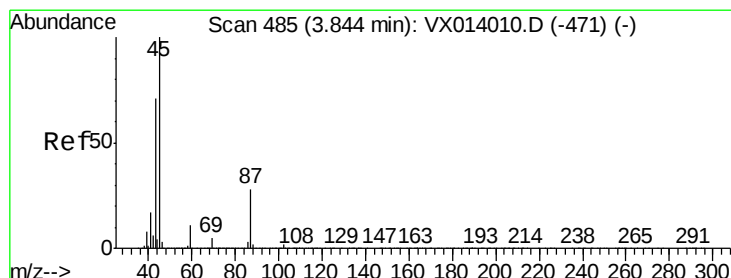
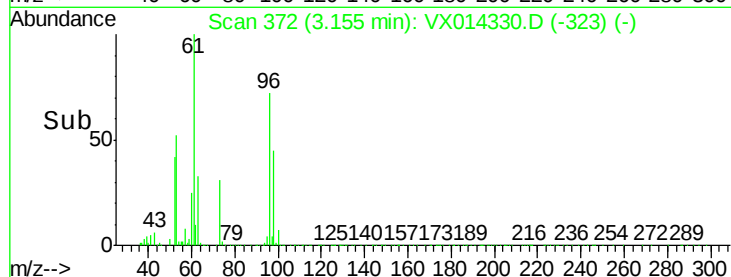
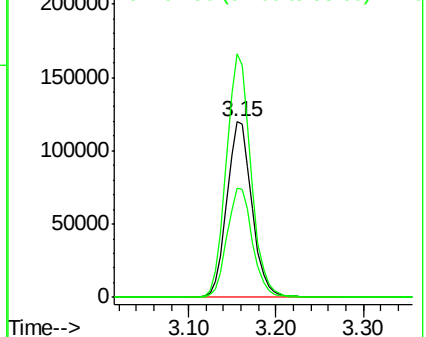
98 62.1 50.8 76.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 54.095 ug/l

RT: 3.84 min Scan# 485

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Tgt Ion: 45 Resp: 853092

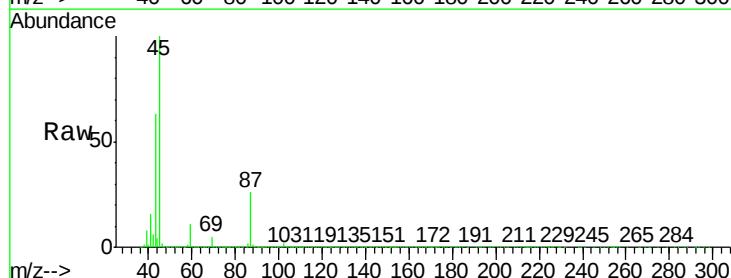
Ion Ratio Lower Upper

45 100

43 62.0 57.4 86.0

87 25.8 21.9 32.9

59 11.1 9.0 13.6

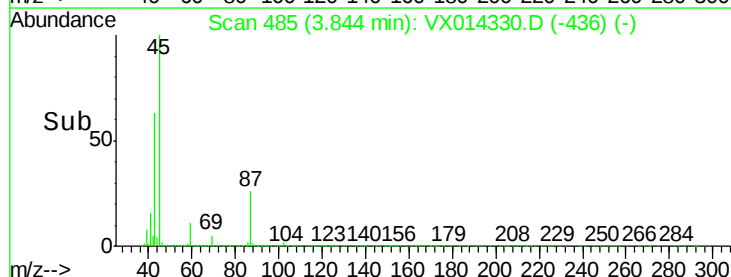
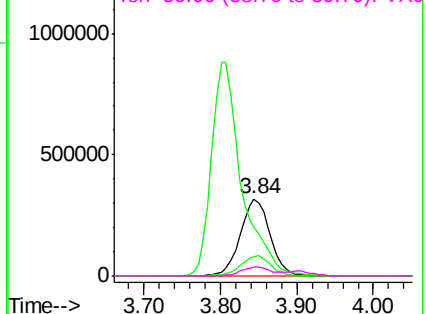


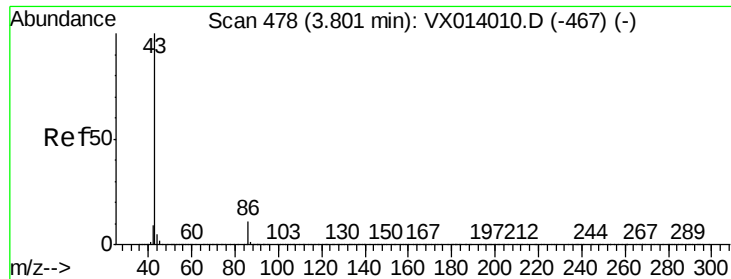
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 187.515 ug/l

RT: 3.81 min Scan# 479

Delta R.T. 0.01 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

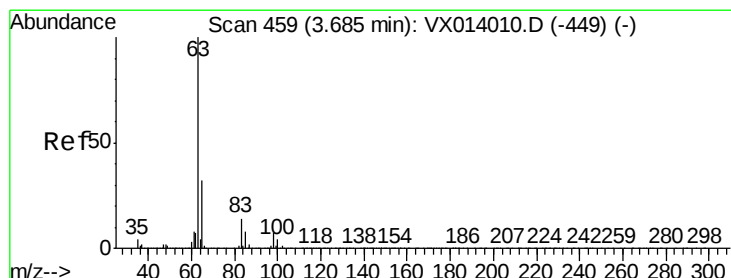
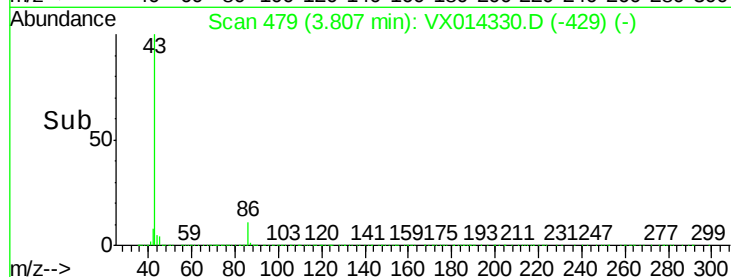
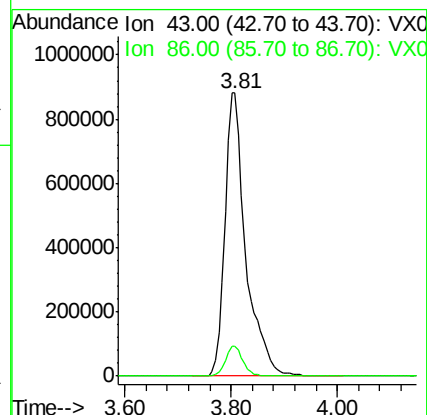
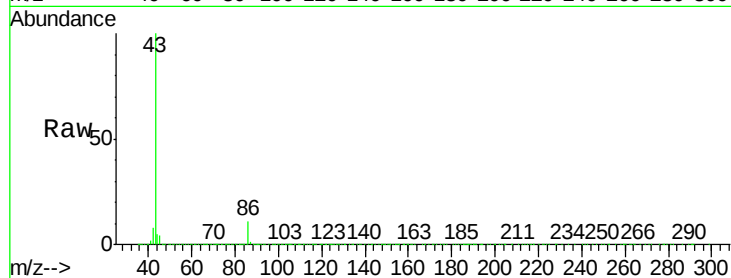
VSTDCCC050

Tgt Ion: 43 Resp: 2413194

Ion Ratio Lower Upper

43 100

86 10.5 8.6 12.8



#24

1,1-Dichloroethane

Concen: 51.045 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

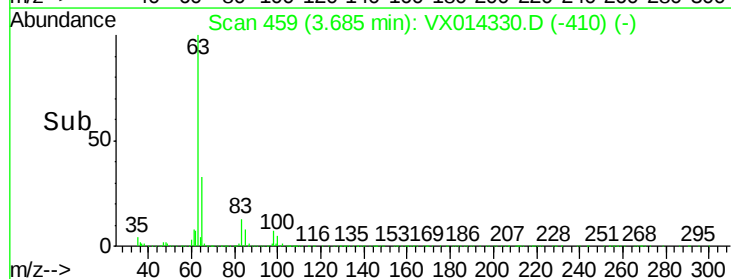
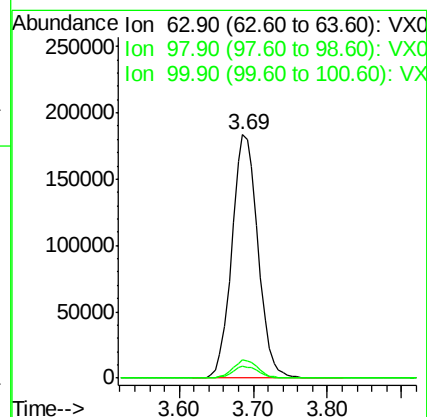
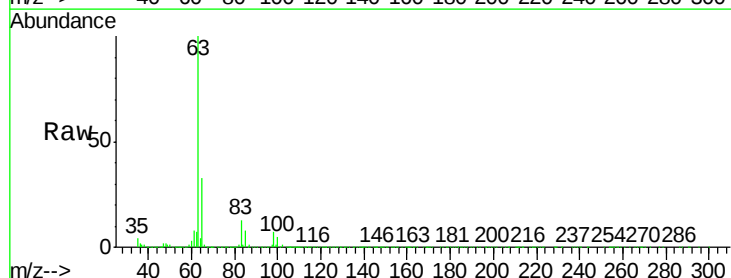
Tgt Ion: 63 Resp: 447862

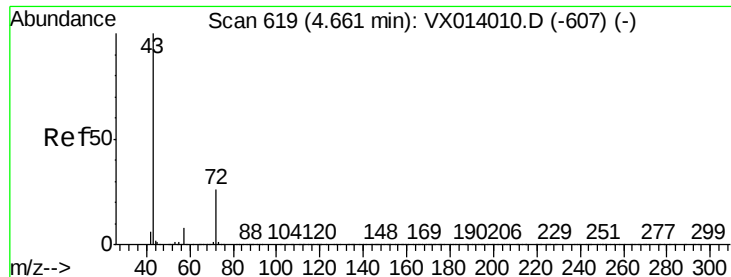
Ion Ratio Lower Upper

63 100

98 7.2 3.6 10.8

100 4.5 2.3 6.8





#25

2-Butanone

Concen: 257.581 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

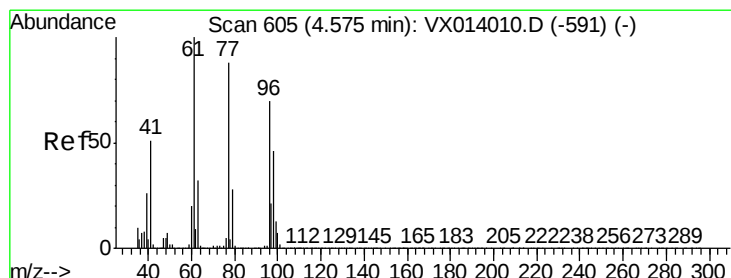
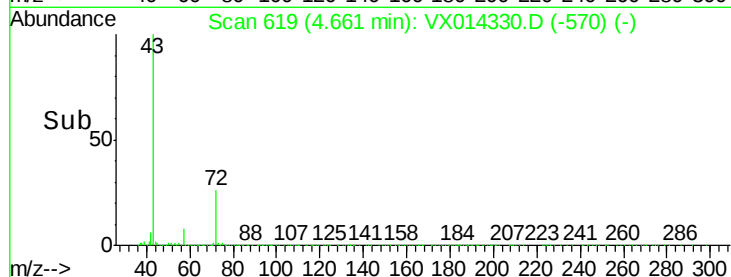
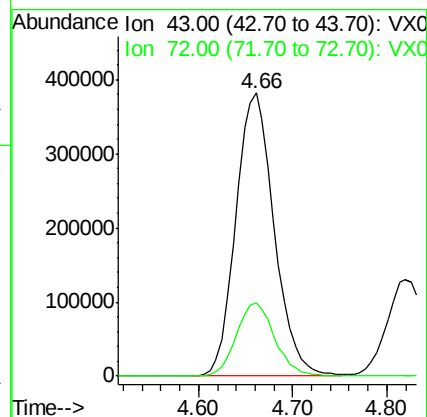
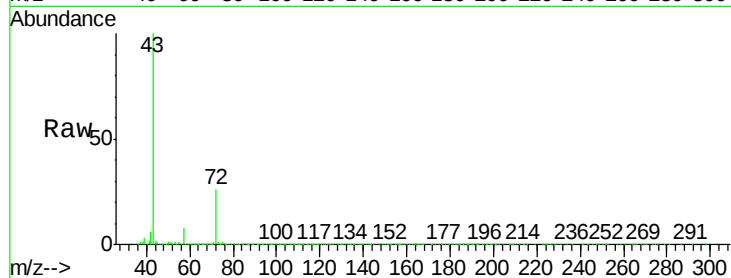
VSTDCCC050

Tgt Ion: 43 Resp: 1076653

Ion Ratio Lower Upper

43 100

72 25.8 21.0 31.4



#26

2,2-Dichloropropane

Concen: 43.536 ug/l

RT: 4.58 min Scan# 605

Delta R.T. 0.00 min

Lab File: VX014330.D

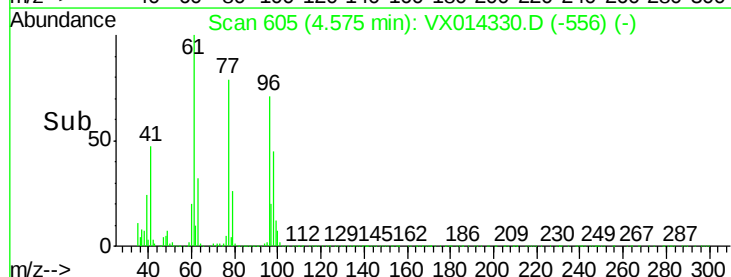
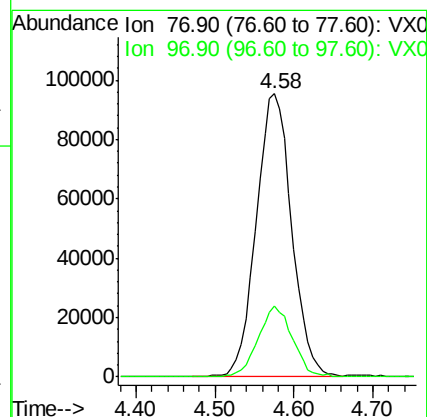
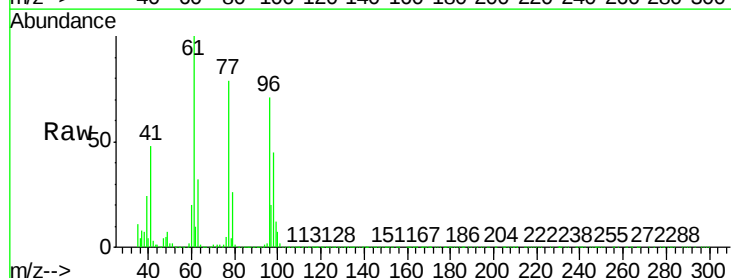
Acq: 27 Dec 2019 23:54

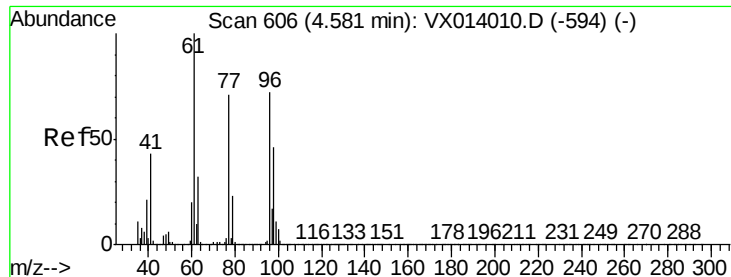
Tgt Ion: 77 Resp: 296577

Ion Ratio Lower Upper

77 100

97 23.9 11.9 35.9



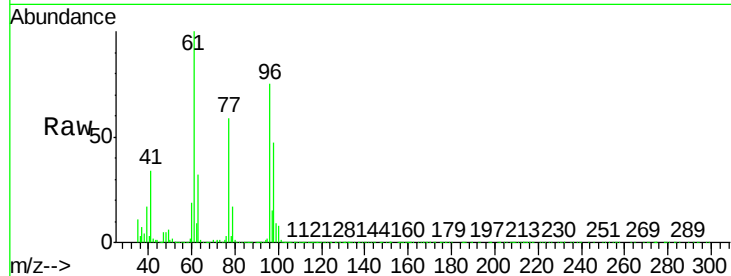


#27

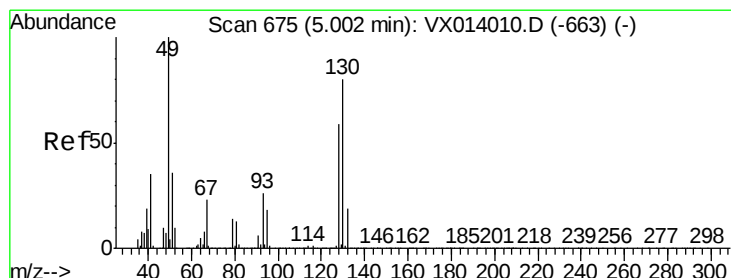
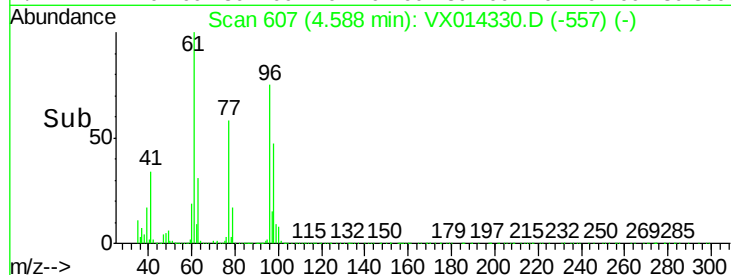
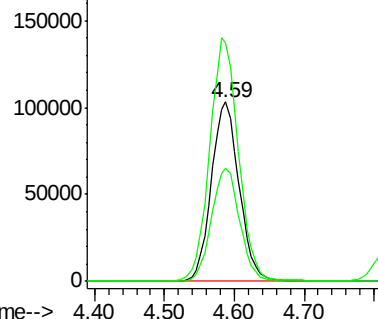
cis-1,2-Dichloroethene  
Concen: 51.248 ug/l  
RT: 4.59 min Scan# 607  
Delta R.T. 0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 96 Resp: 283017  
Ion Ratio Lower Upper  
96 100  
61 140.0 0.0 288.4  
98 64.6 0.0 129.6



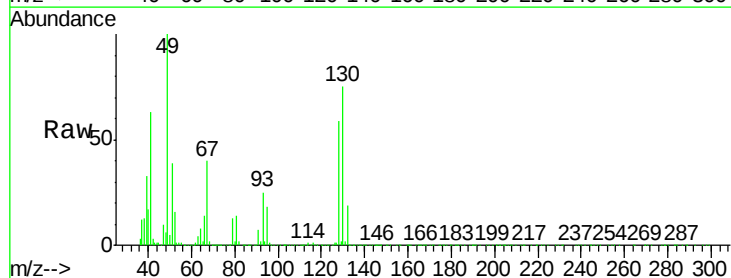
Abundance Ion 95.90 (95.60 to 96.60): VX0  
Ion 60.90 (60.60 to 61.60): VX0  
Ion 97.90 (97.60 to 98.60): VX0



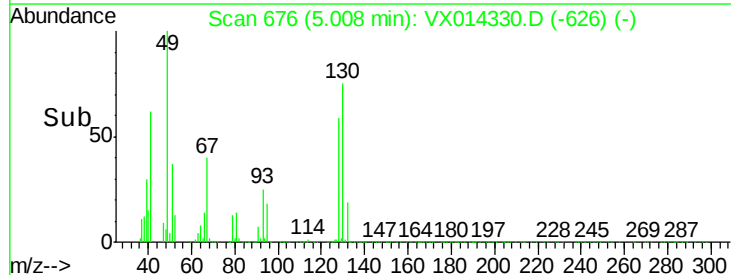
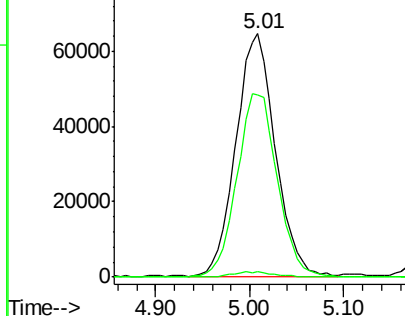
#28

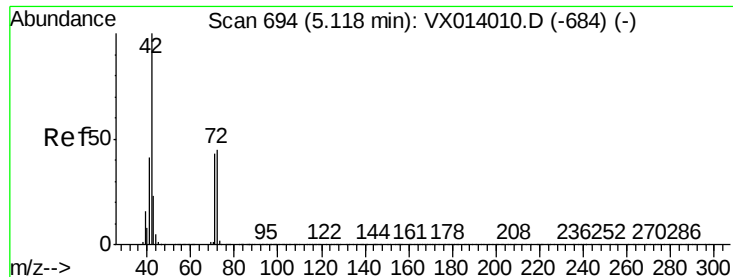
Bromochloromethane  
Concen: 55.840 ug/l  
RT: 5.01 min Scan# 676  
Delta R.T. 0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 49 Resp: 188603  
Ion Ratio Lower Upper  
49 100  
129 2.2 0.0 5.0  
130 77.6 64.6 97.0



Abundance Ion 48.90 (48.60 to 49.60): VX0  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V

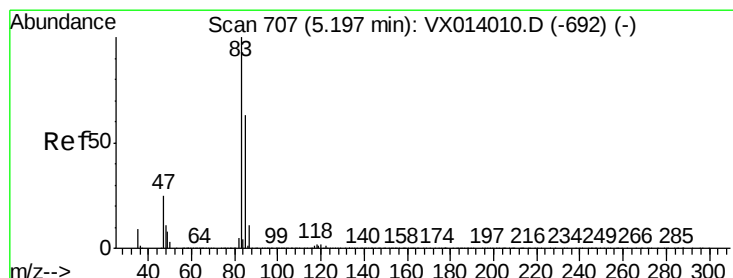
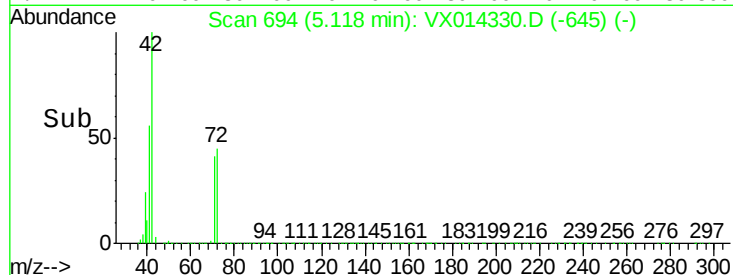
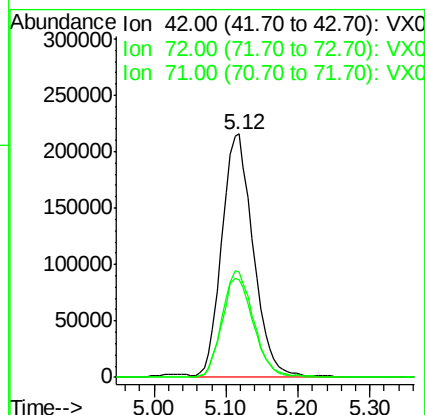
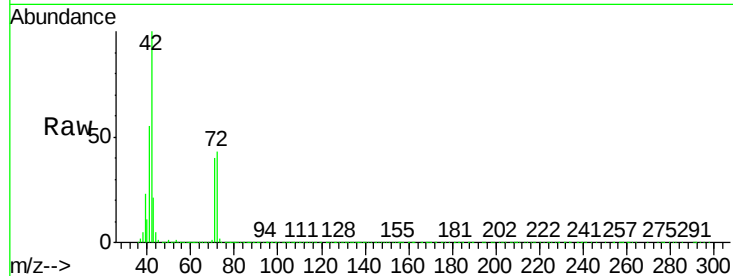




#29  
Tetrahydrofuran  
Concen: 278.724 ug/l  
RT: 5.12 min Scan# 694  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

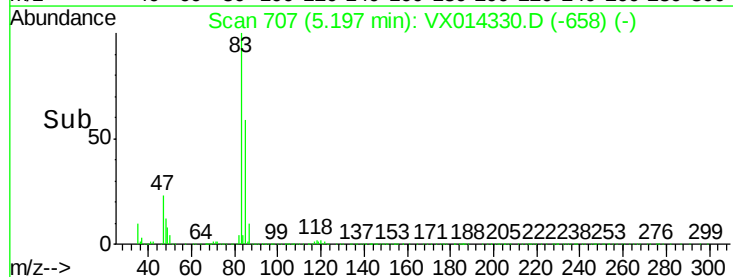
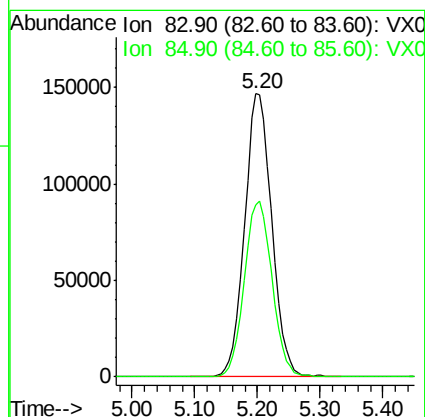
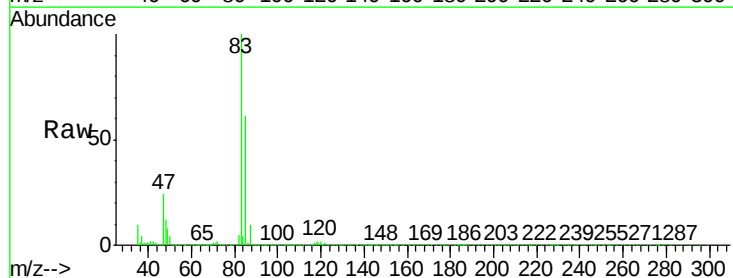
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

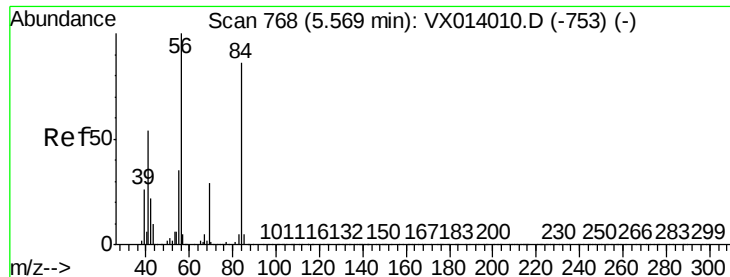
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 42    | Resp: | 651631 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 44.3  | 35.8  | 53.8   |
| 71       | 41.6  | 33.6  | 50.4   |



#30  
Chloroform  
Concen: 52.711 ug/l  
RT: 5.20 min Scan# 707  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 438419 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 60.8  | 50.8  | 76.2   |

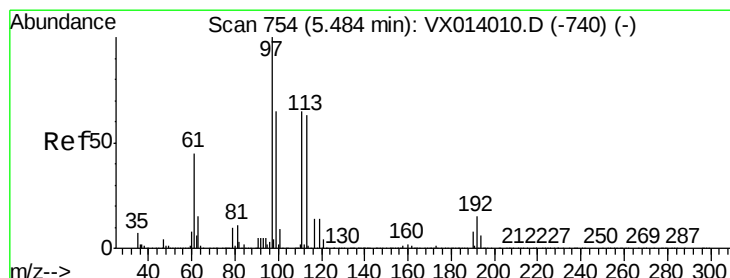
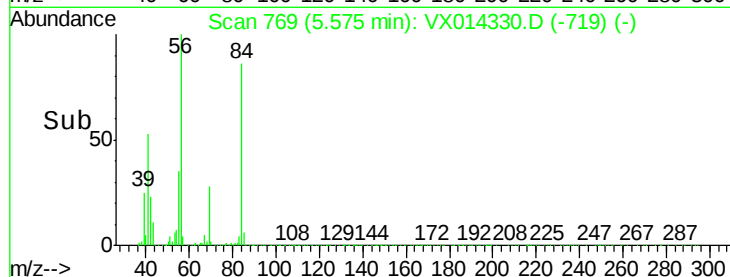
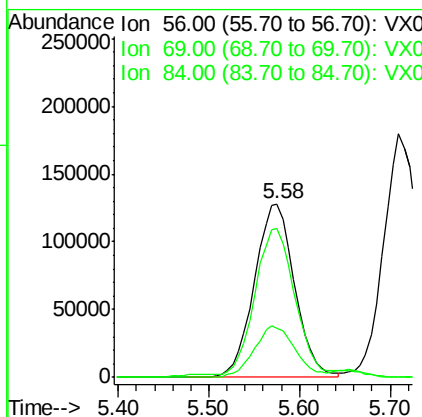
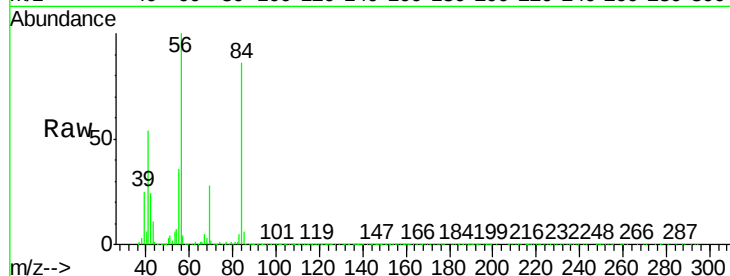




#31  
Cyclohexane  
Concen: 50.155 ug/l  
RT: 5.58 min Scan# 769  
Delta R.T. 0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

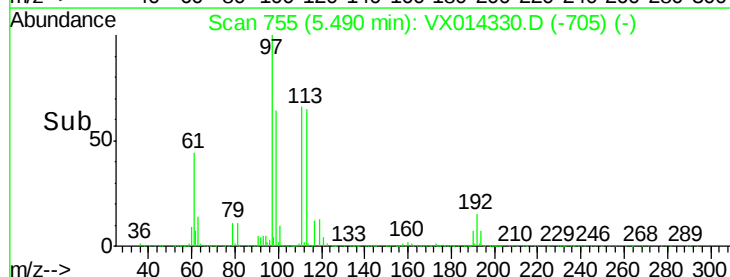
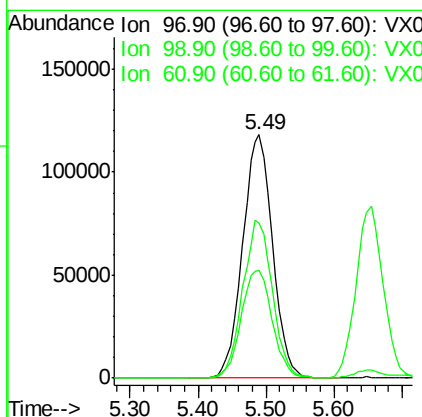
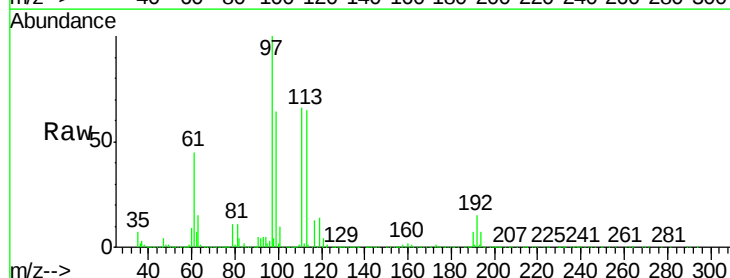
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

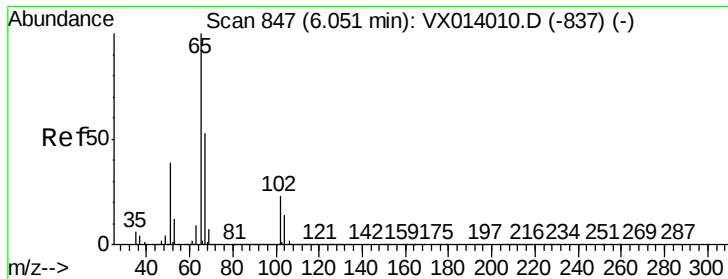
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 28.2  | 23.2  | 34.8  |
| 84      | 84.4  | 69.2  | 103.8 |



#32  
1,1,1-Trichloroethane  
Concen: 50.939 ug/l  
RT: 5.49 min Scan# 755  
Delta R.T. 0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 63.9  | 52.0  | 78.0  |
| 61      | 45.6  | 36.7  | 55.1  |

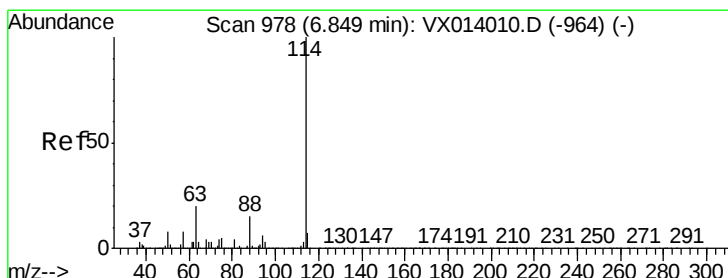
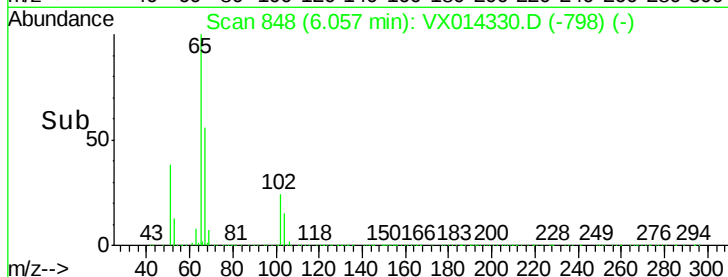
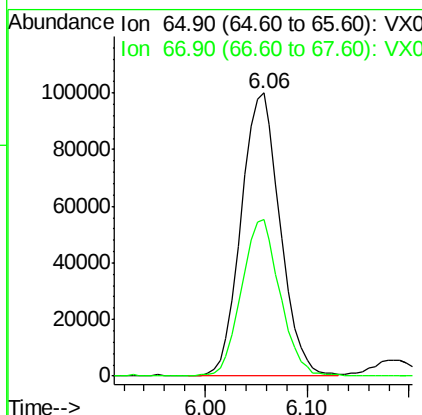
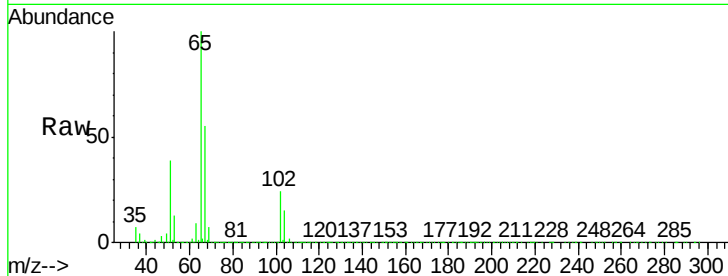




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.715 ug/l  
 RT: 6.06 min Scan# 848  
 Delta R.T. 0.01 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

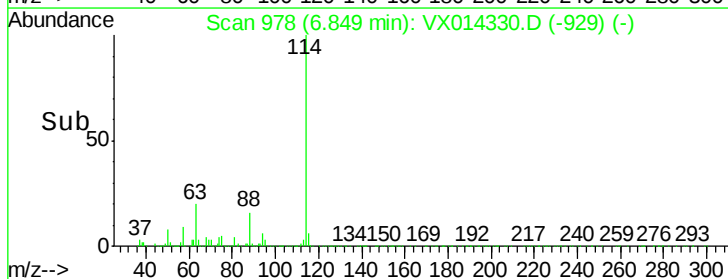
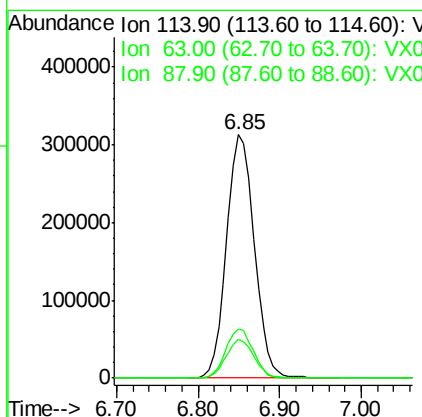
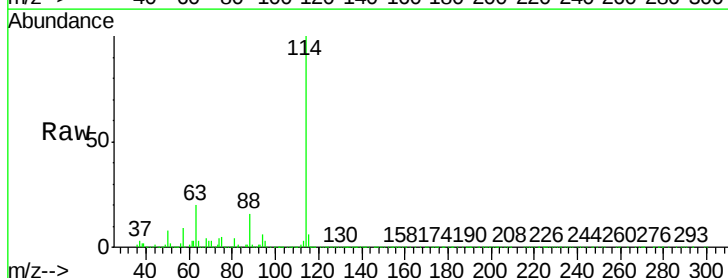
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Tgt Ion: 65 Resp: 264846  
 Ion Ratio Lower Upper  
 65 100  
 67 55.0 0.0 106.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

Tgt Ion: 114 Resp: 736392  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 40.8  
 88 16.1 0.0 30.4





#35

Dibromofluoromethane

Concen: 49.041 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

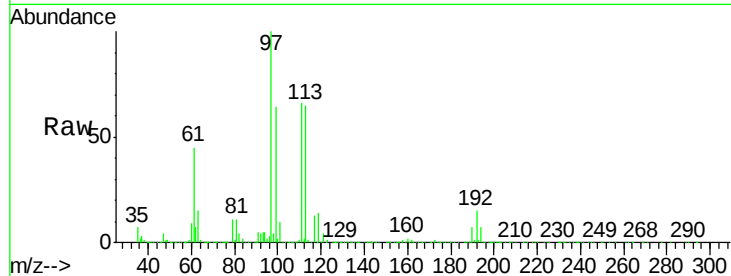
Tgt Ion: 113 Resp: 219531

Ion Ratio Lower Upper

113 100

111 102.7 82.0 123.0

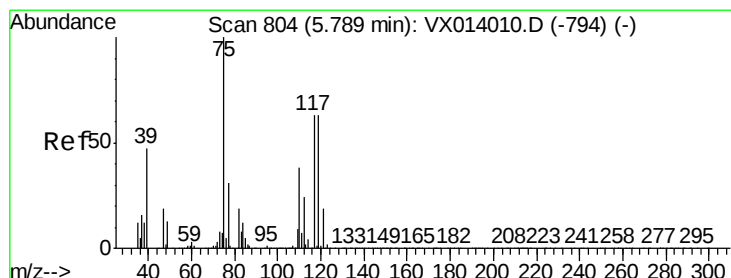
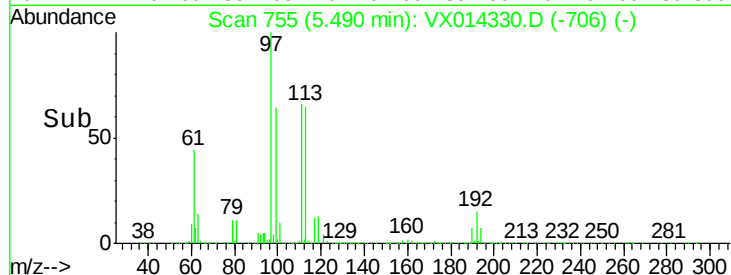
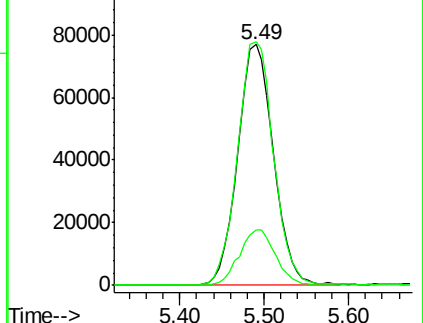
192 23.3 19.3 28.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 47.402 ug/l

RT: 5.79 min Scan# 805

Delta R.T. 0.01 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

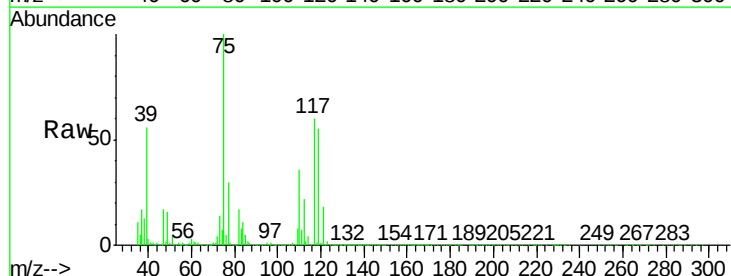
Tgt Ion: 75 Resp: 320285

Ion Ratio Lower Upper

75 100

110 36.7 18.3 54.9

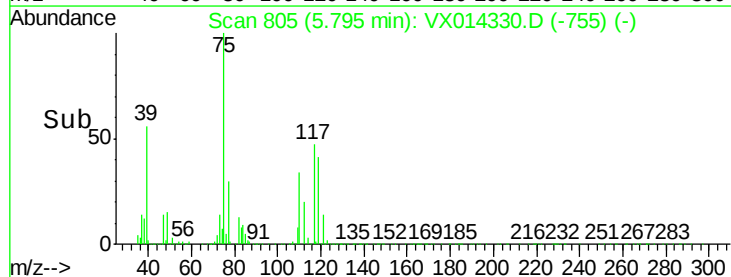
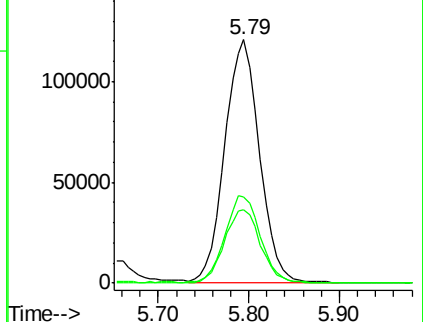
77 31.3 24.8 37.2

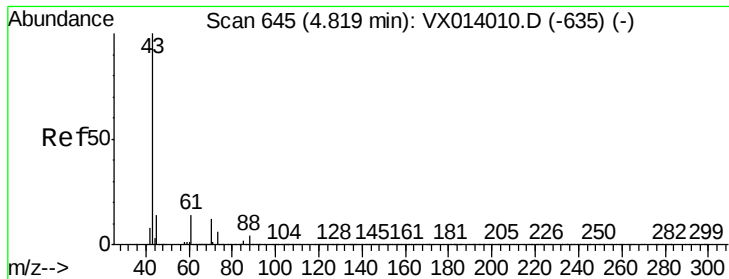


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

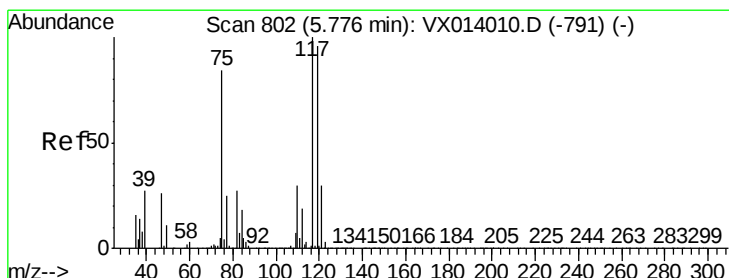
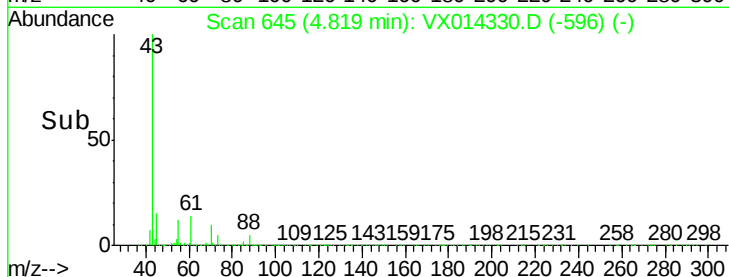
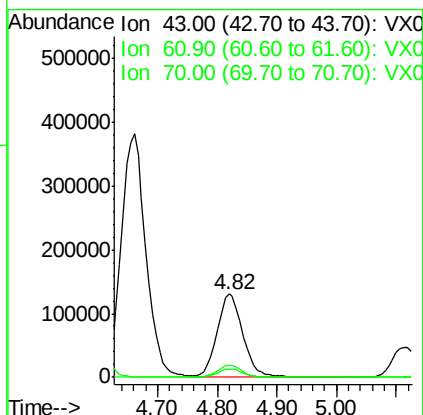
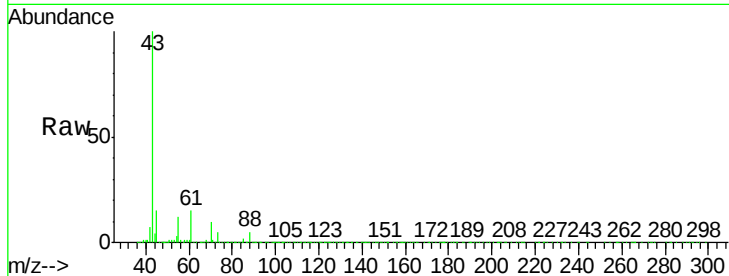




#37  
Ethyl Acetate  
Concen: 52.270 ug/l  
RT: 4.82 min Scan# 645  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

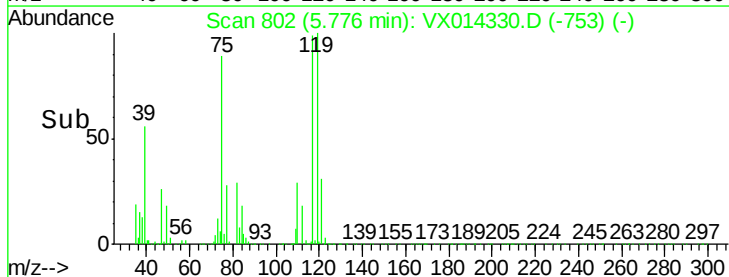
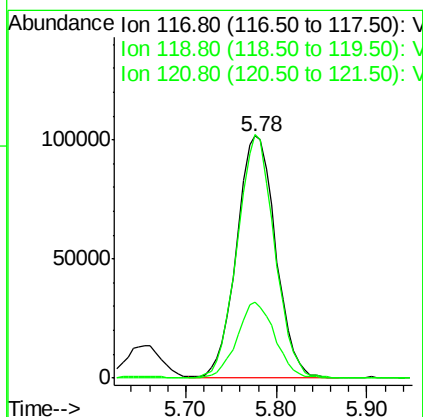
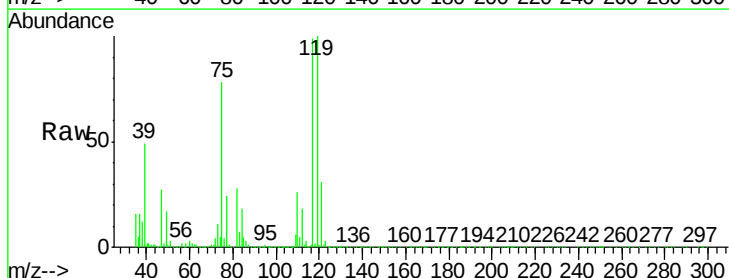
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

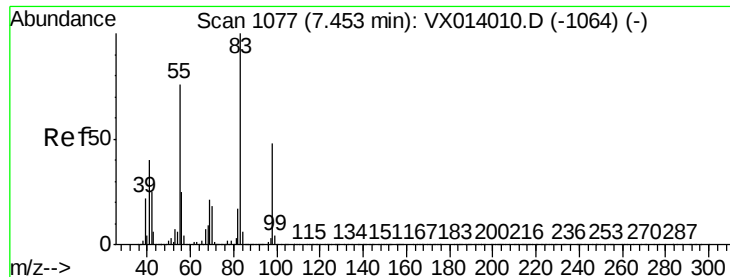
Tgt Ion: 43 Resp: 390013  
Ion Ratio Lower Upper  
43 100  
61 13.9 10.8 16.2  
70 10.5 8.6 12.8



#38  
Carbon Tetrachloride  
Concen: 48.933 ug/l  
RT: 5.78 min Scan# 802  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 117 Resp: 301203  
Ion Ratio Lower Upper  
117 100  
119 100.6 76.2 114.4  
121 31.2 23.6 35.4

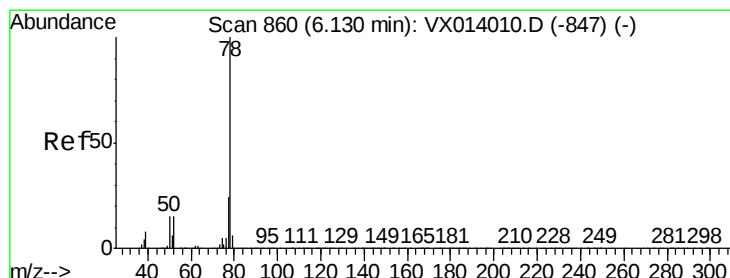
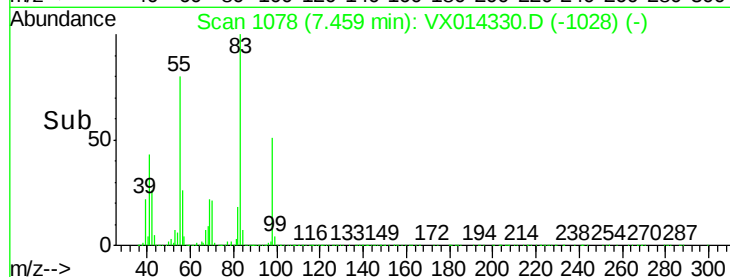
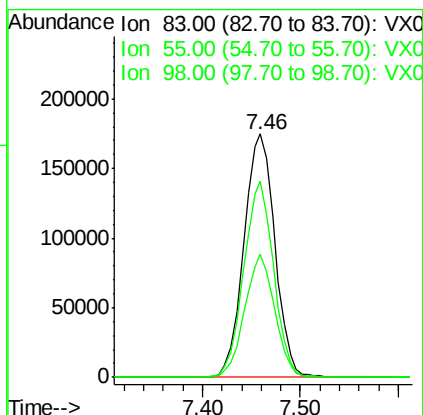
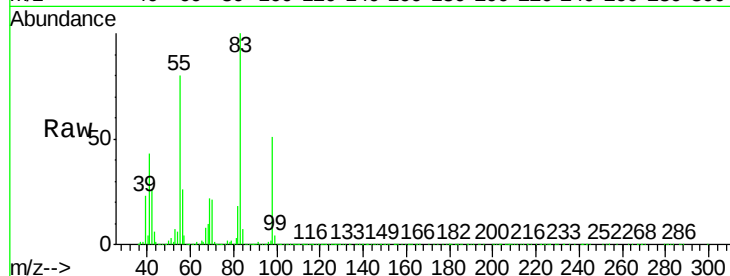




#39  
Methylcyclohexane  
Concen: 45.814 ug/l  
RT: 7.46 min Scan# 1078  
Delta R.T. 0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

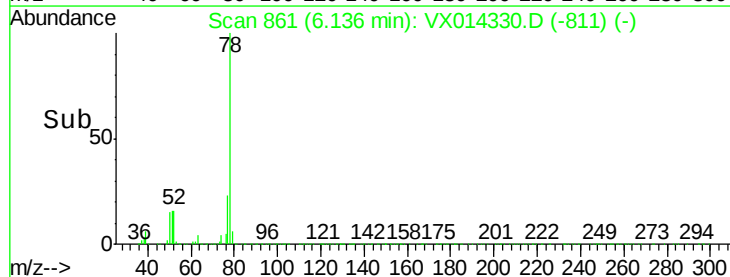
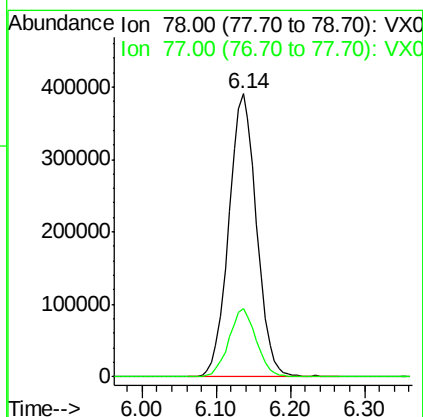
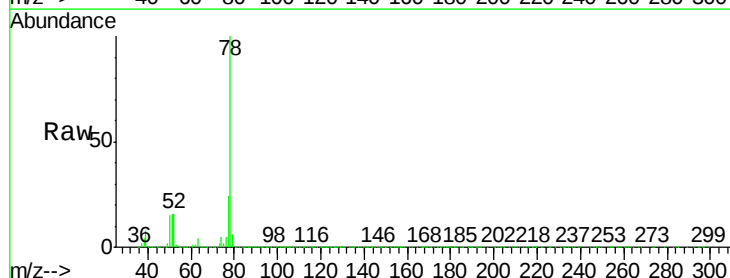
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

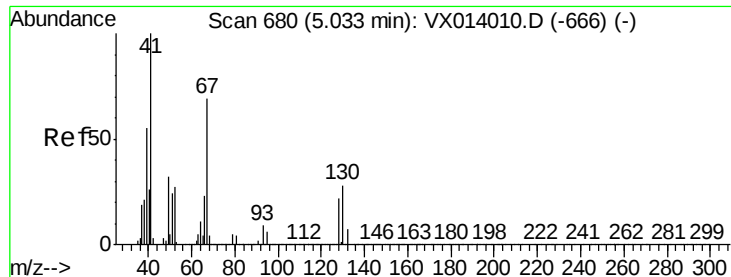
Tgt Ion: 83 Resp: 382224  
Ion Ratio Lower Upper  
83 100  
55 80.2 61.0 91.6  
98 50.6 38.6 57.8



#40  
Benzene  
Concen: 48.969 ug/l  
RT: 6.14 min Scan# 861  
Delta R.T. 0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 78 Resp: 1018058  
Ion Ratio Lower Upper  
78 100  
77 24.1 18.8 28.2

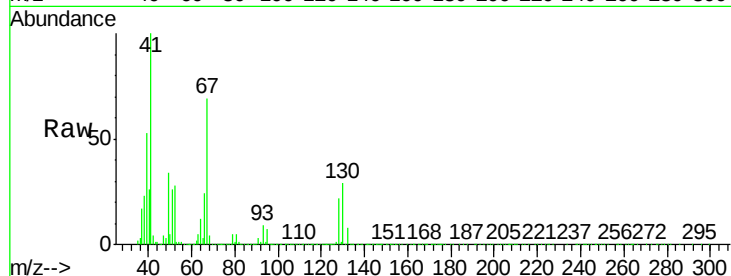




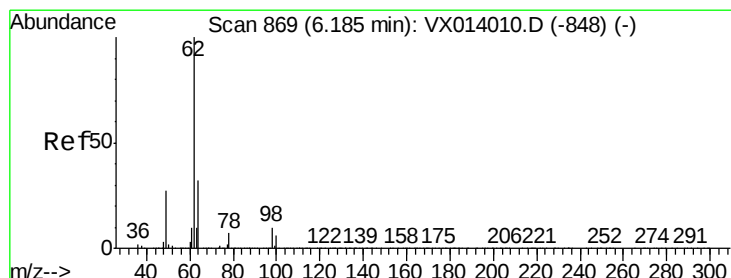
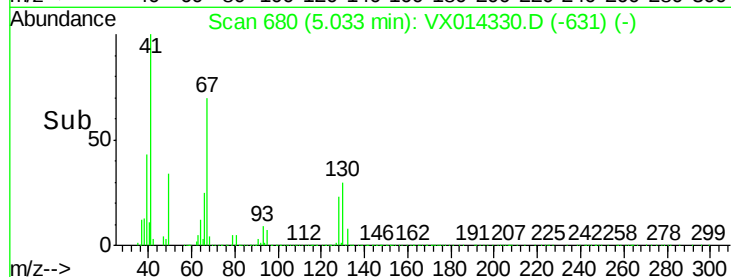
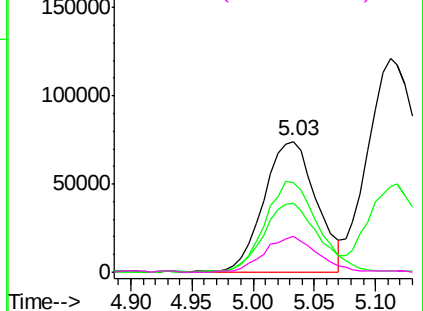
#41  
Methacrylonitrile  
Concen: 53.166 ug/l  
RT: 5.03 min Scan# 680  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 220107 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 54.3  | 44.5  | 66.7   |
| 67       | 70.1  | 57.4  | 86.0   |
| 52       | 27.2  | 23.0  | 34.4   |

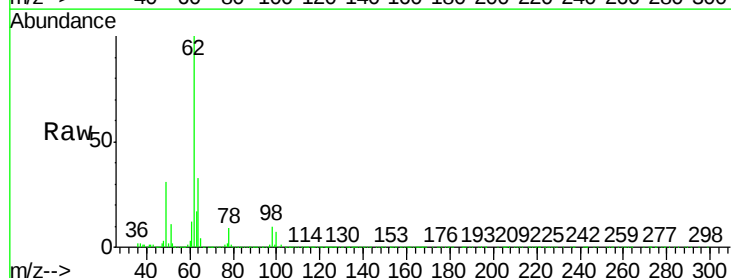


Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0  
Ion 67.00 (66.70 to 67.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0

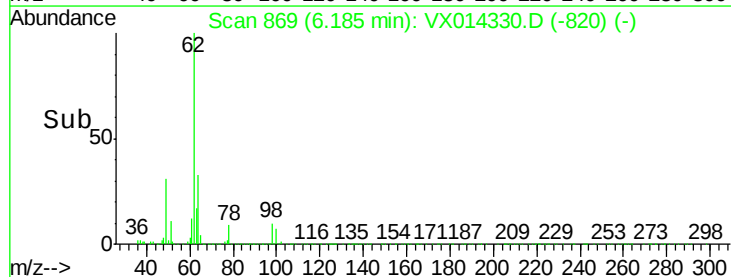
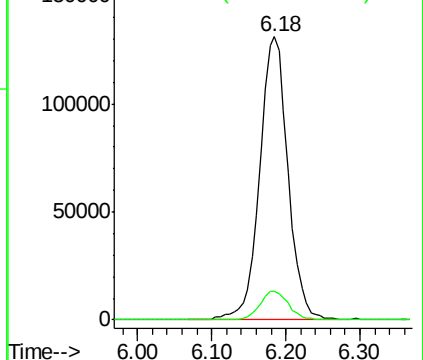


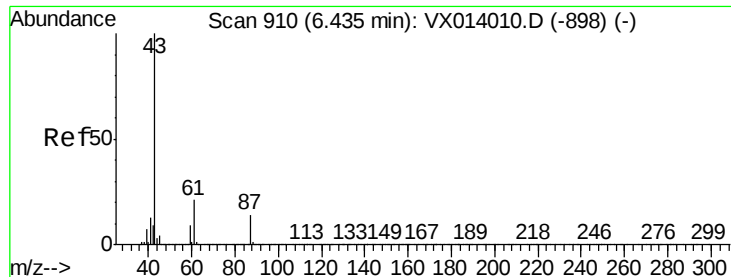
#42  
1,2-Dichloroethane  
Concen: 49.185 ug/l  
RT: 6.18 min Scan# 869  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 346621 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 10.1  | 0.0   | 21.0   |



Abundance Ion 61.90 (61.60 to 62.60): VX0  
Ion 97.90 (97.60 to 98.60): VX0





#43

Isopropyl Acetate

Concen: 52.297 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

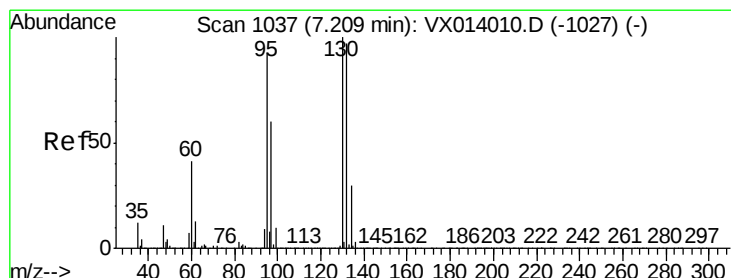
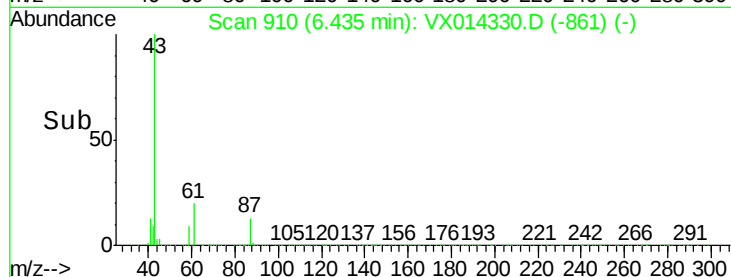
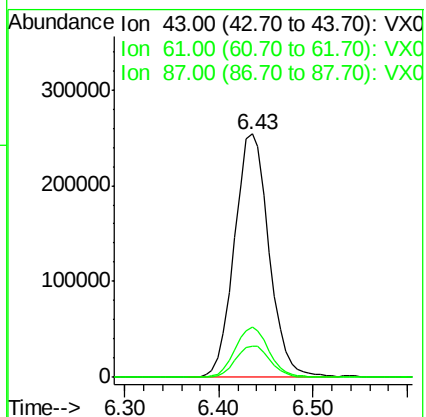
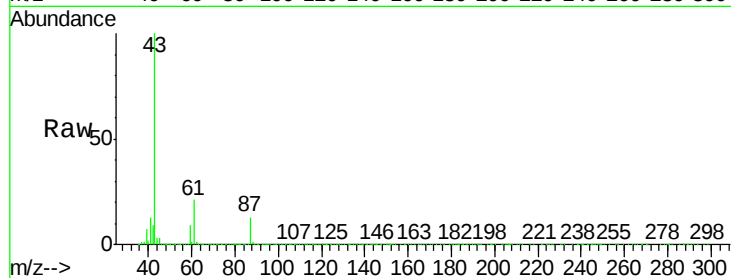
Tgt Ion: 43 Resp: 645777

Ion Ratio Lower Upper

43 100

61 20.5 16.4 24.6

87 12.9 10.7 16.1



#44

Trichloroethene

Concen: 50.308 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014330.D

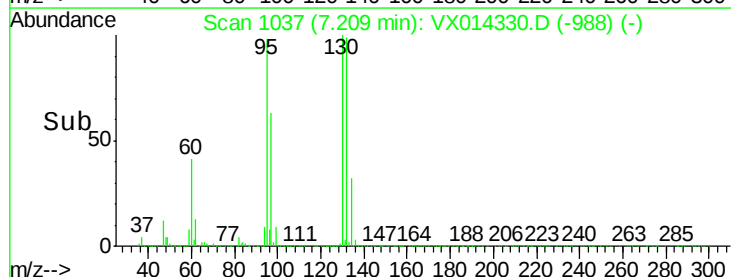
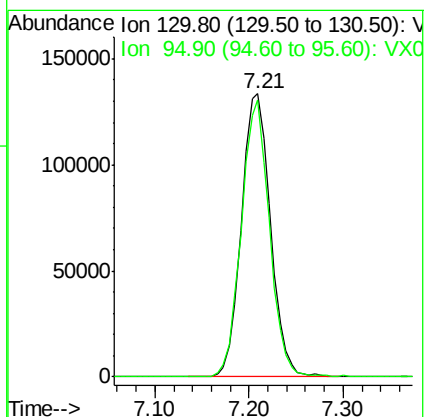
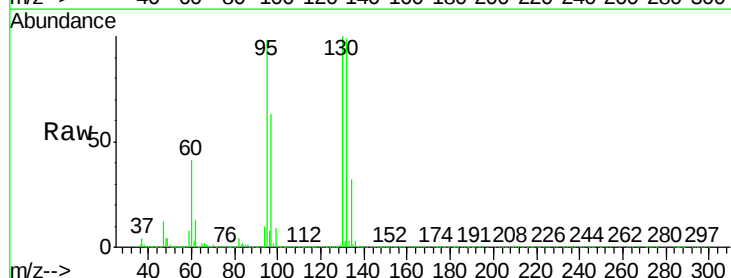
Acq: 27 Dec 2019 23:54

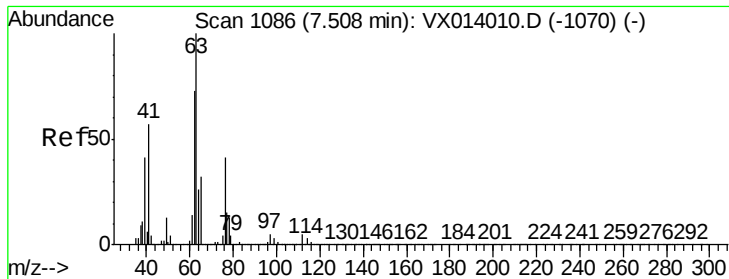
Tgt Ion: 130 Resp: 288887

Ion Ratio Lower Upper

130 100

95 97.9 0.0 185.6





#45

1,2-Dichloropropane

Concen: 50.994 ug/l

RT: 7.51 min Scan# 1086

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

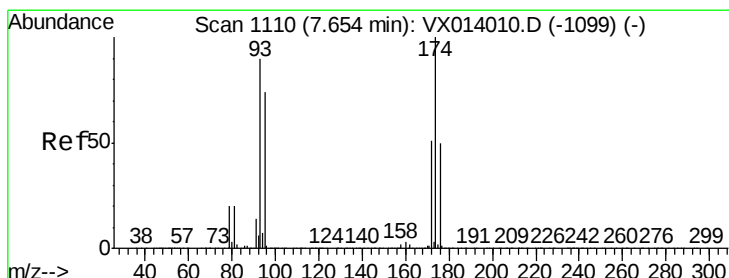
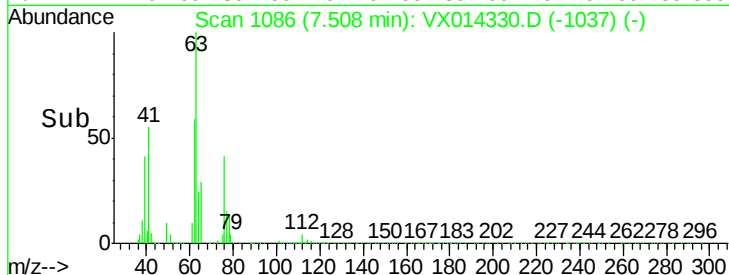
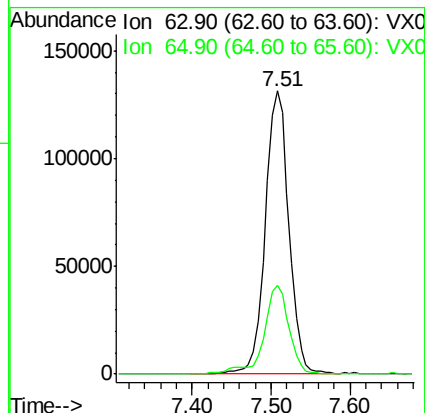
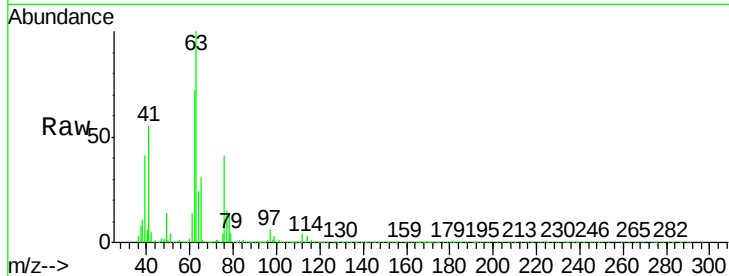
VSTDCCC050

Tgt Ion: 63 Resp: 271731

Ion Ratio Lower Upper

63 100

65 31.2 25.8 38.8



#46

Dibromomethane

Concen: 48.591 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

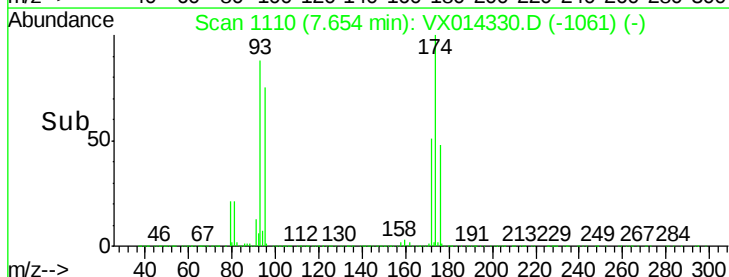
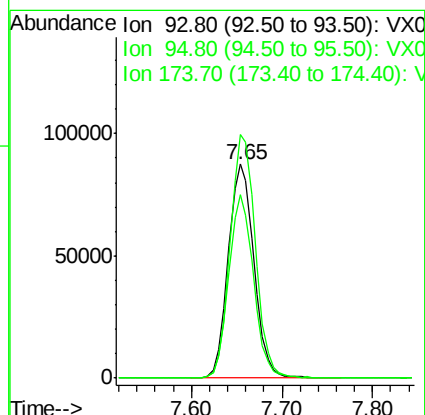
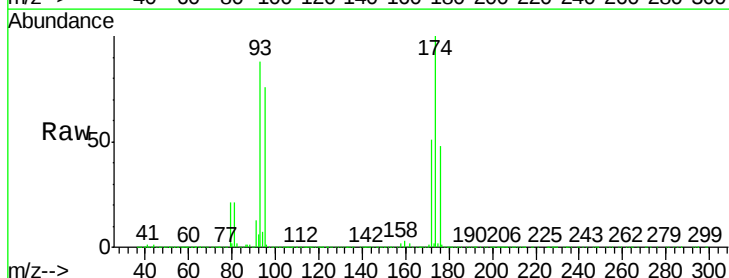
Tgt Ion: 93 Resp: 171189

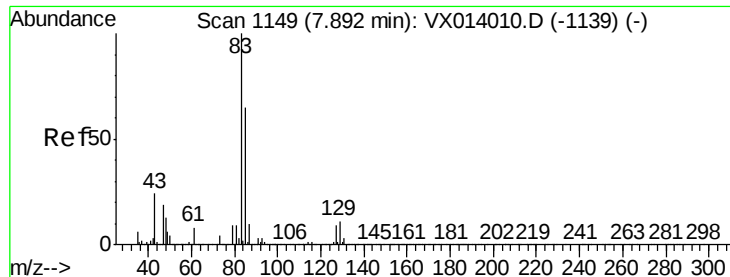
Ion Ratio Lower Upper

93 100

95 82.9 67.3 100.9

174 112.6 91.6 137.4





#47

Bromodichloromethane

Concen: 50.368 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

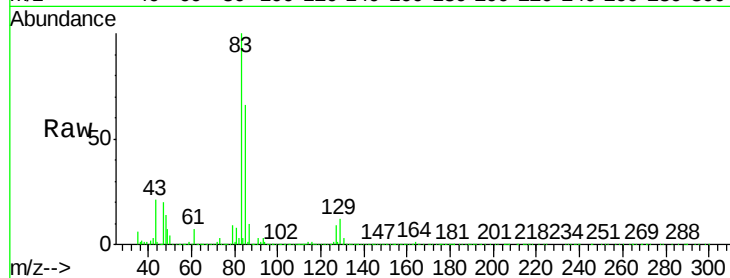
Tgt Ion: 83 Resp: 334199

Ion Ratio Lower Upper

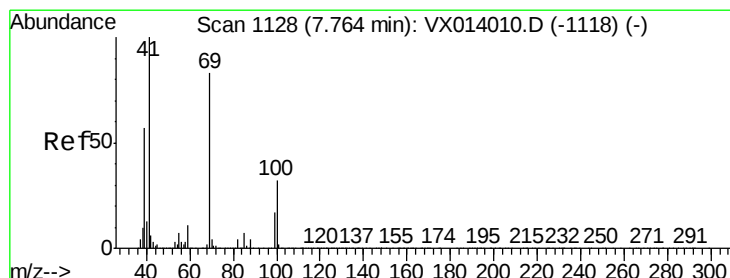
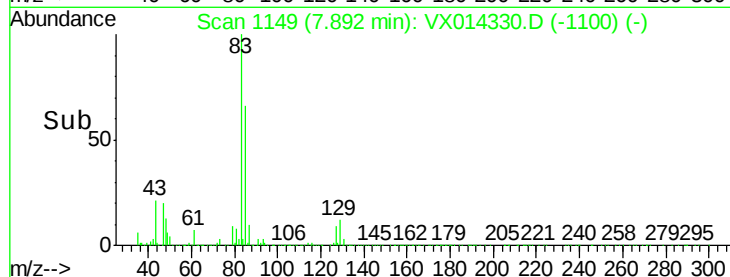
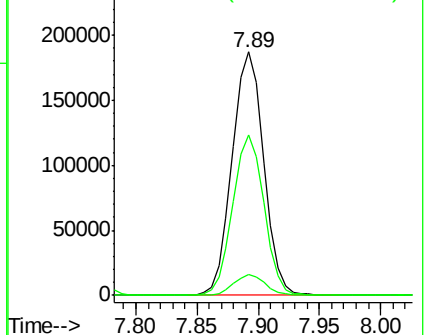
83 100

85 66.0 51.8 77.8

127 8.5 7.0 10.4



Abundance Ion 82.90 (82.60 to 83.60): VX0  
Ion 84.90 (84.60 to 85.60): VX0  
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 52.214 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

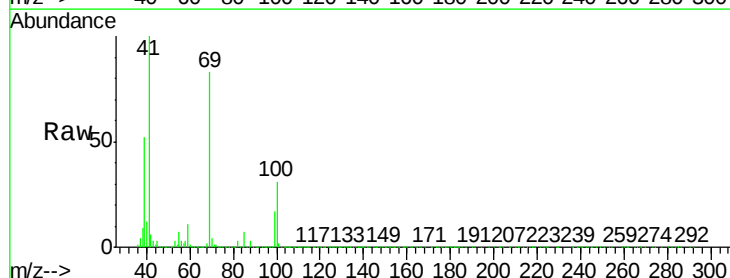
Tgt Ion: 41 Resp: 315718

Ion Ratio Lower Upper

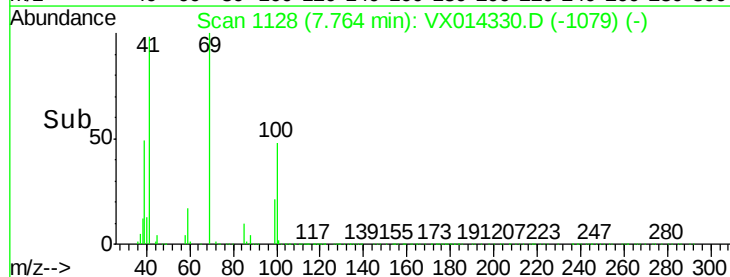
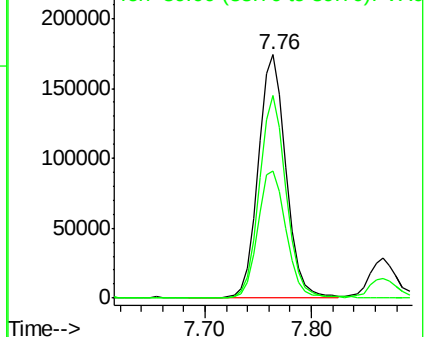
41 100

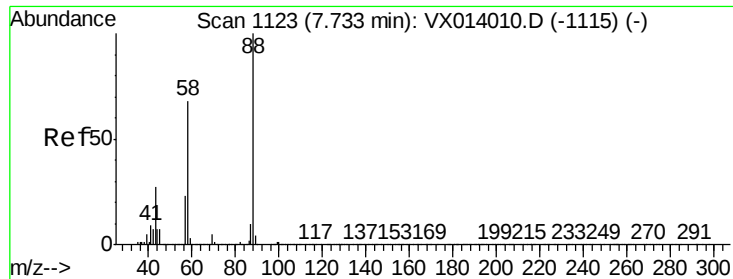
69 81.1 65.8 98.6

39 53.2 44.6 67.0



Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0

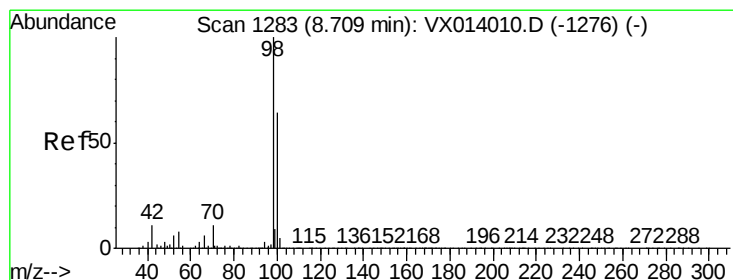
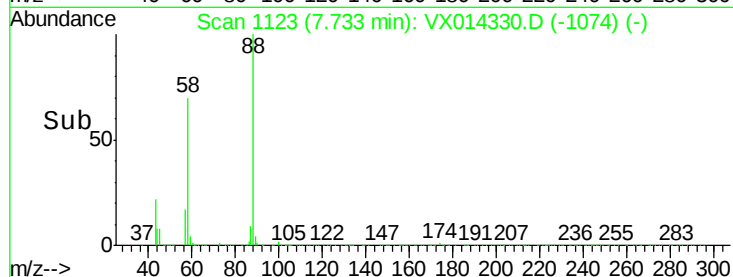
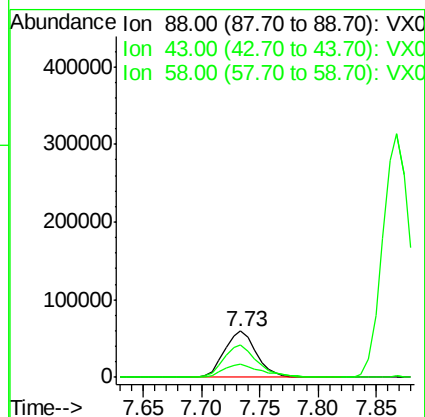
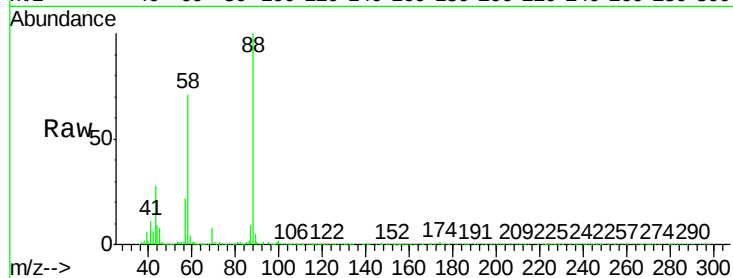




#49  
 1,4-Dioxane  
 Concen: 912.952 ug/l  
 RT: 7.73 min Scan# 1123  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

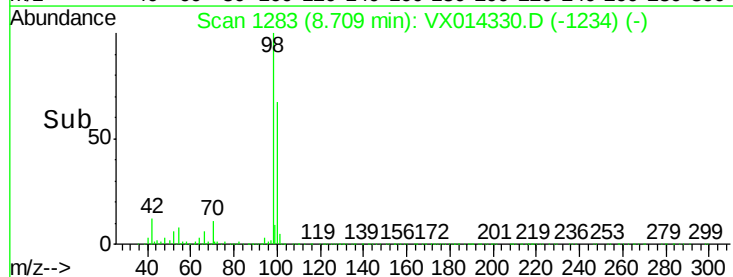
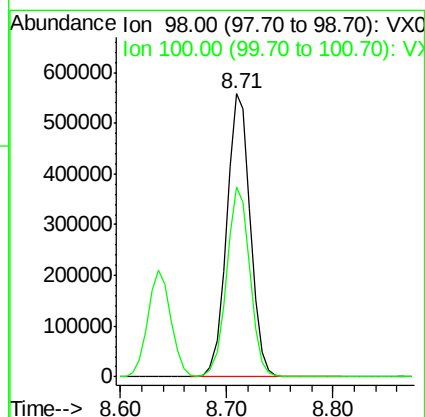
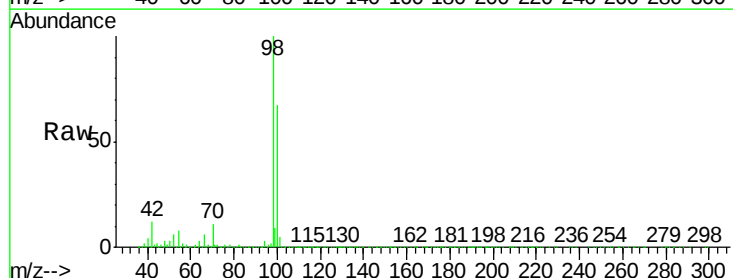
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

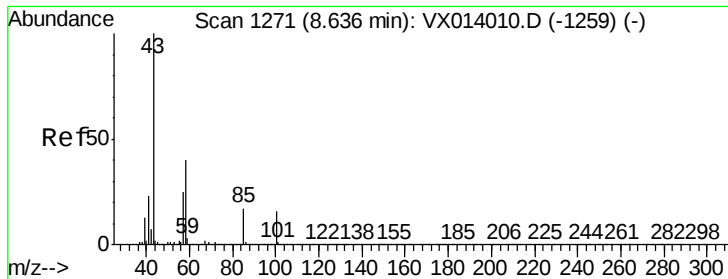
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 33.3  | 26.5  | 39.7  |
| 58      | 72.4  | 56.8  | 85.2  |



#50  
 Toluene-d8  
 Concen: 49.438 ug/l  
 RT: 8.71 min Scan# 1283  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.2  | 52.9  | 79.3  |

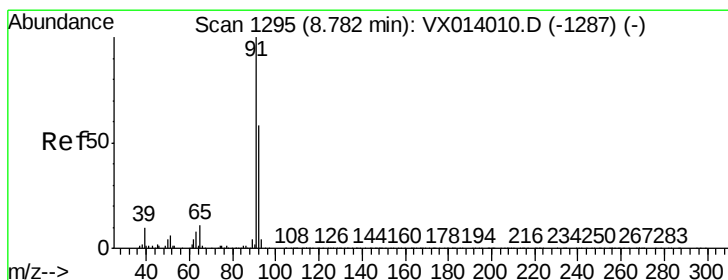
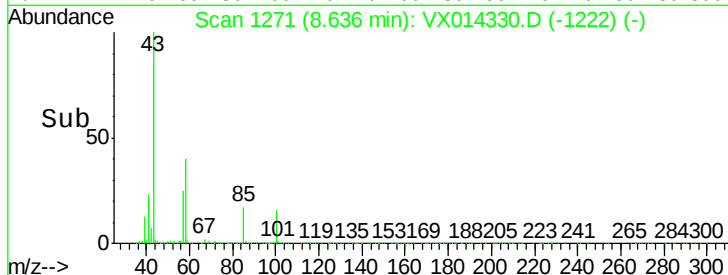
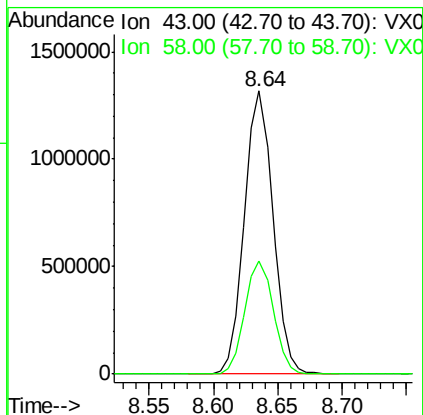
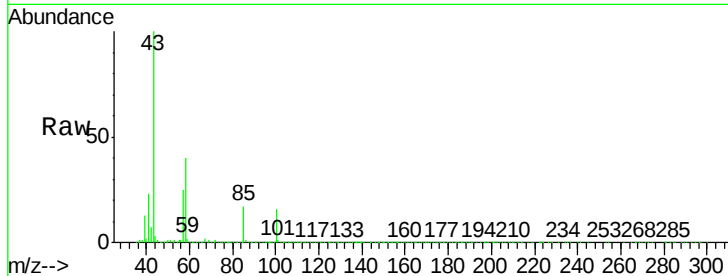




#51  
 4-Methyl-2-Pentanone  
 Concen: 260.929 ug/l  
 RT: 8.64 min Scan# 1271  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

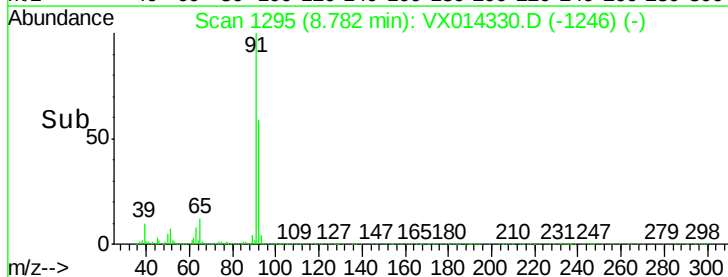
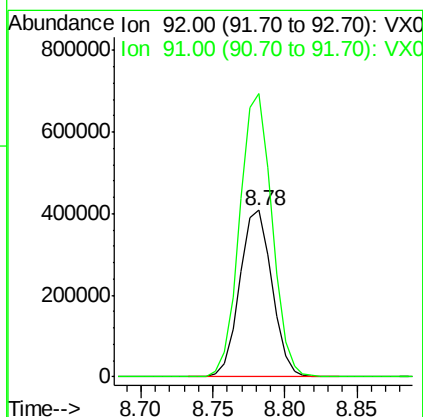
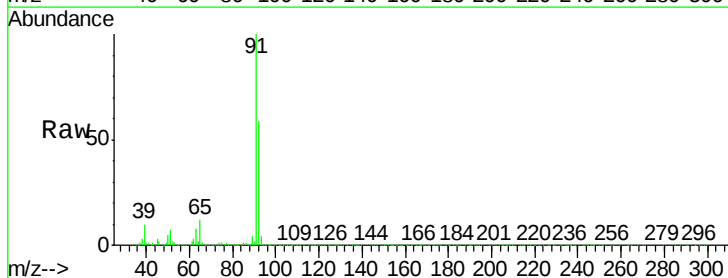
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

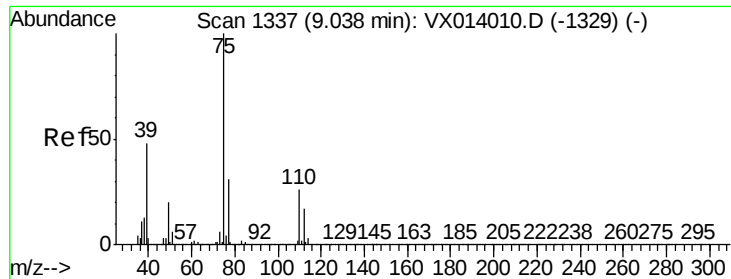
Tgt Ion: 43 Resp: 2023494  
 Ion Ratio Lower Upper  
 43 100  
 58 40.0 32.2 48.2



#52  
 Toluene  
 Concen: 48.367 ug/l  
 RT: 8.78 min Scan# 1295  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

Tgt Ion: 92 Resp: 635574  
 Ion Ratio Lower Upper  
 92 100  
 91 170.1 136.2 204.4

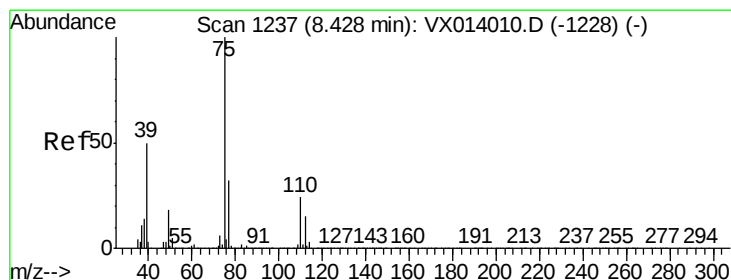
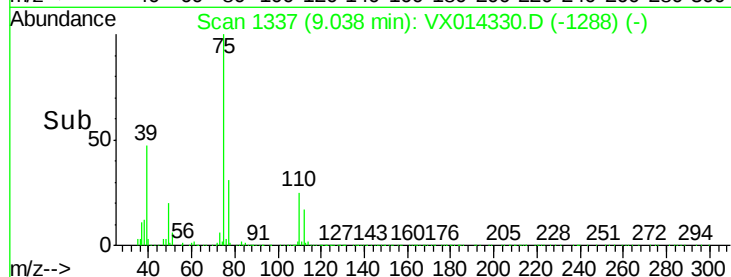
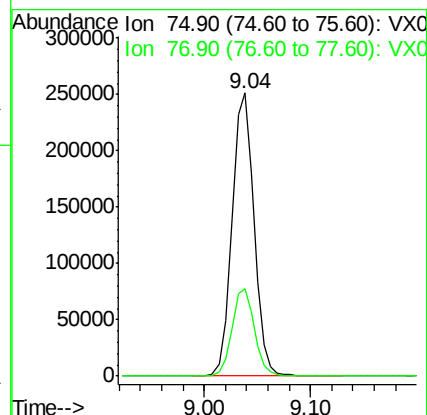
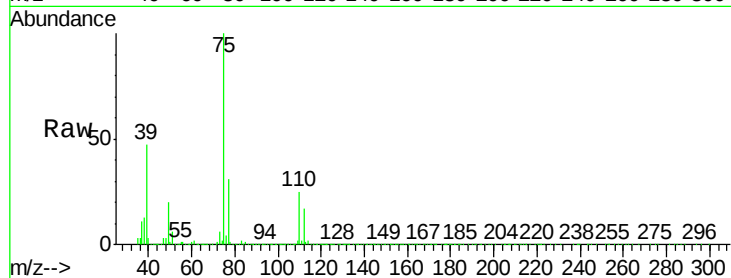




#53  
 t-1,3-Dichloropropene  
 Concen: 50.241 ug/l  
 RT: 9.04 min Scan# 1337  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

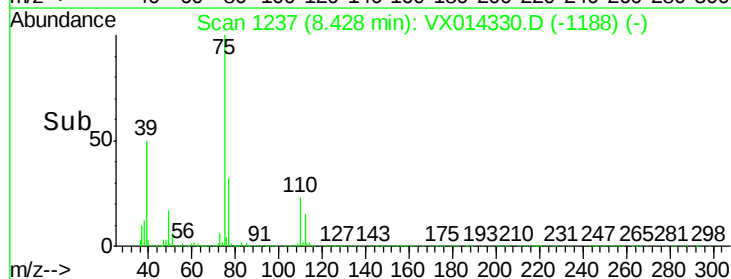
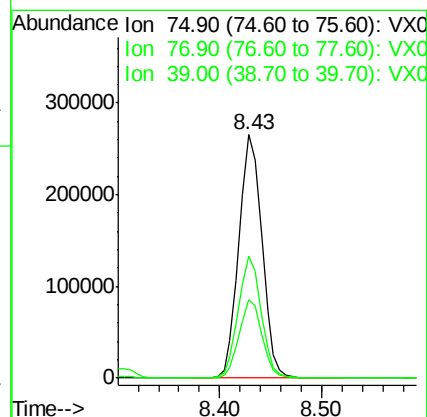
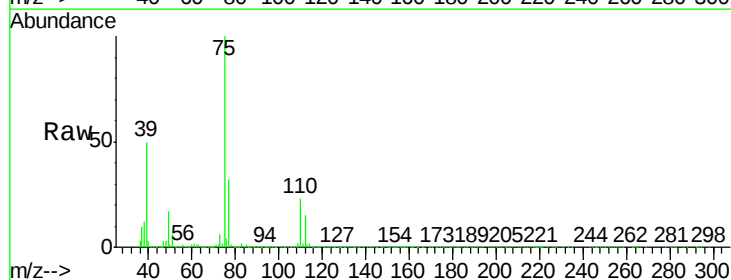
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Tgt Ion: 75 Resp: 365528  
 Ion Ratio Lower Upper  
 75 100  
 77 30.7 25.1 37.7



#54  
 cis-1,3-Dichloropropene  
 Concen: 51.227 ug/l  
 RT: 8.43 min Scan# 1237  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

Tgt Ion: 75 Resp: 415214  
 Ion Ratio Lower Upper  
 75 100  
 77 32.3 25.3 37.9  
 39 50.0 39.9 59.9





#55

1,1,2-Trichloroethane

Concen: 50.672 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 266871

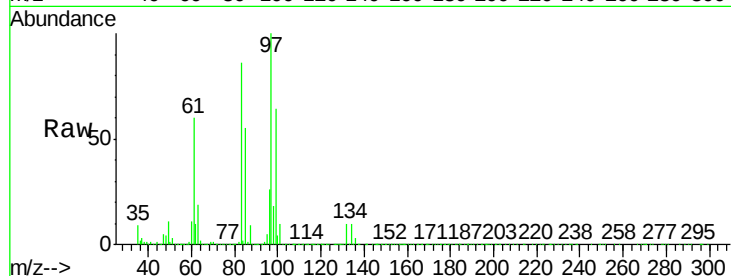
Ion Ratio Lower Upper

97 100

83 86.1 68.2 102.4

85 54.6 44.6 66.8

99 63.8 51.4 77.0

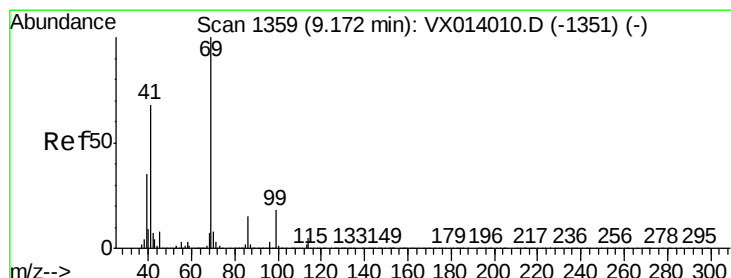
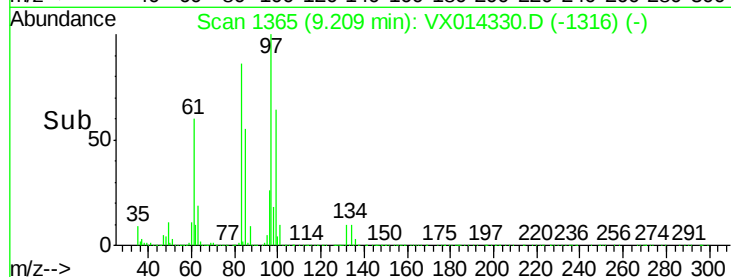
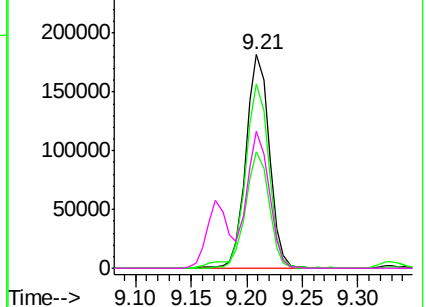


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#56

Ethyl methacrylate

Concen: 51.778 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

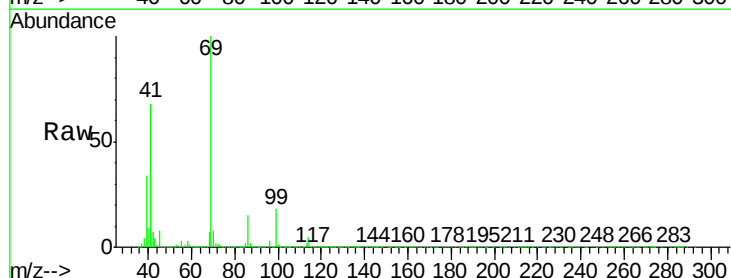
Tgt Ion: 69 Resp: 428359

Ion Ratio Lower Upper

69 100

41 68.2 54.8 82.2

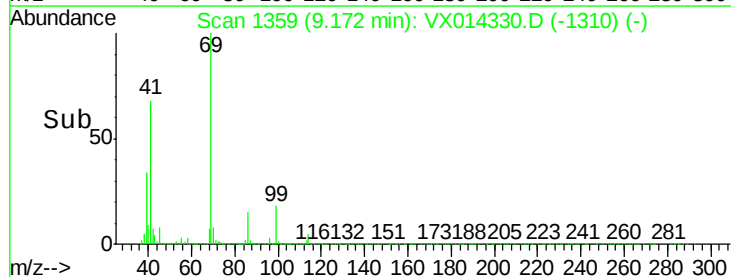
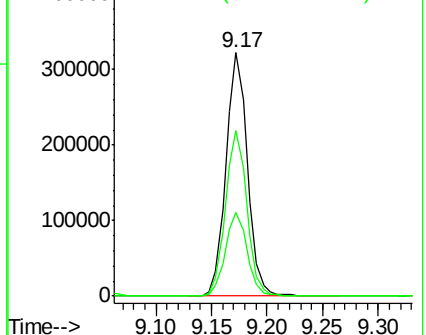
39 34.8 28.3 42.5

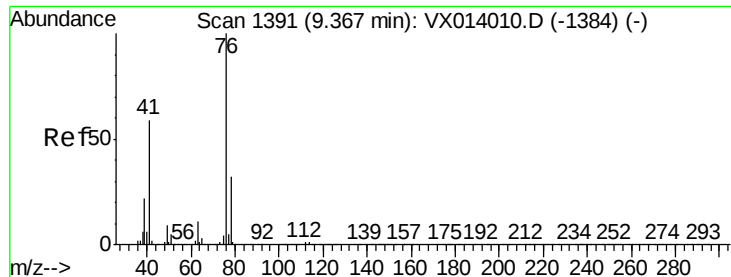


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 50.672 ug/l

RT: 9.37 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

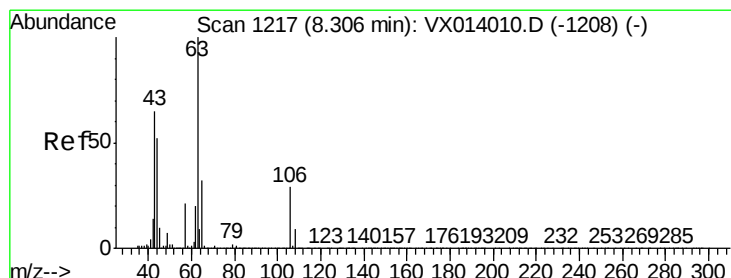
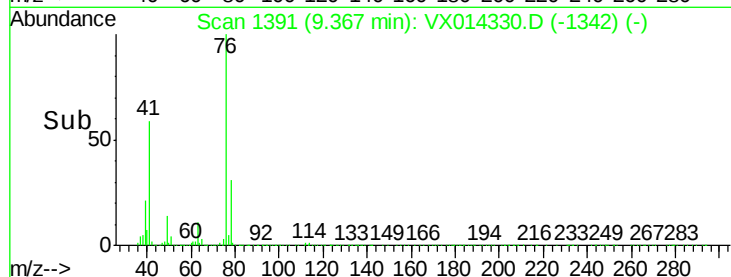
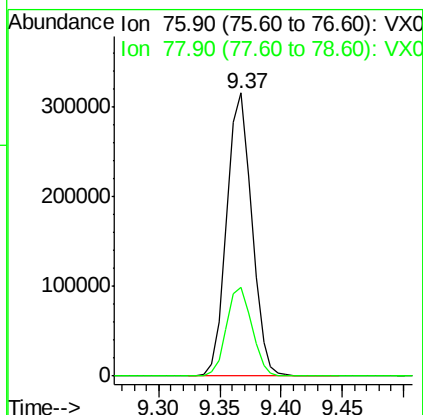
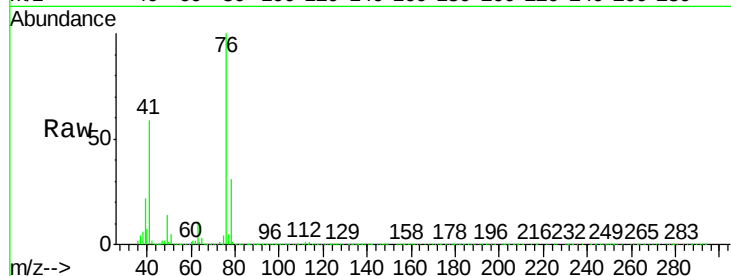
VSTDCCC050

Tgt Ion: 76 Resp: 449010

Ion Ratio Lower Upper

76 100

78 31.9 25.8 38.6



#58

2-Chloroethyl Vinyl ether

Concen: 265.278 ug/l

RT: 8.31 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VX014330.D

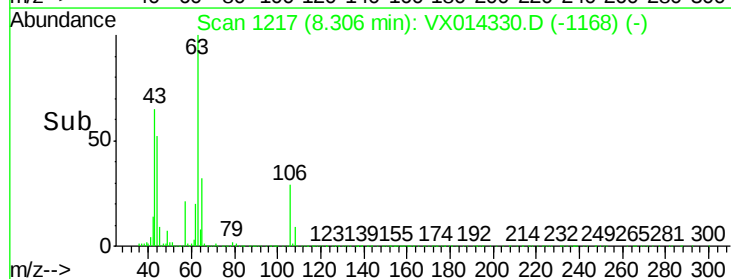
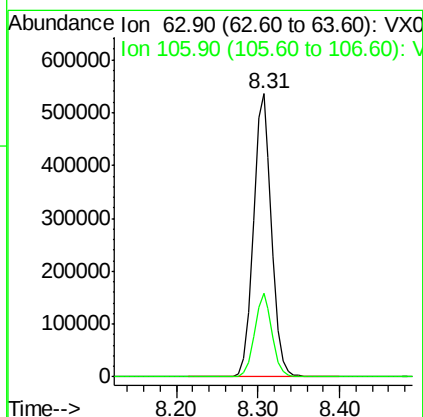
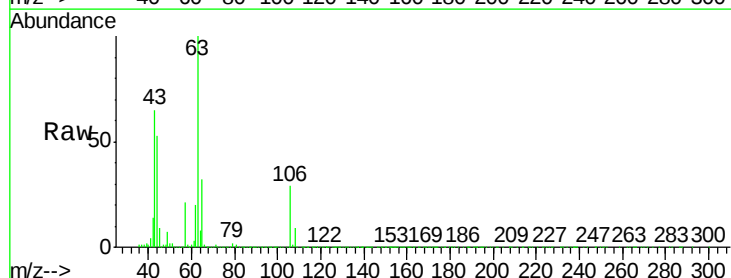
Acq: 27 Dec 2019 23:54

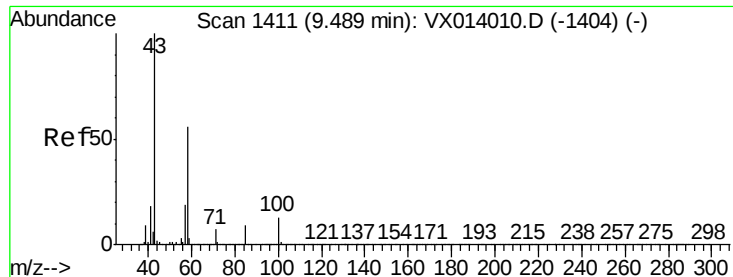
Tgt Ion: 63 Resp: 830535

Ion Ratio Lower Upper

63 100

106 28.7 23.0 34.6

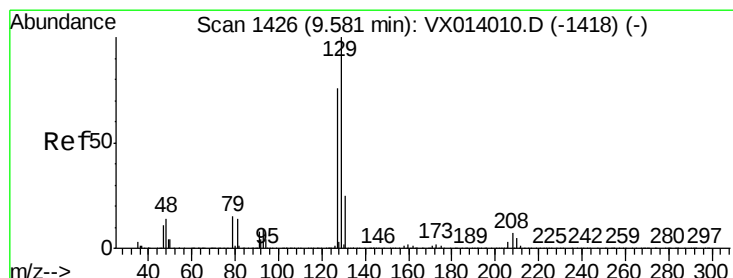
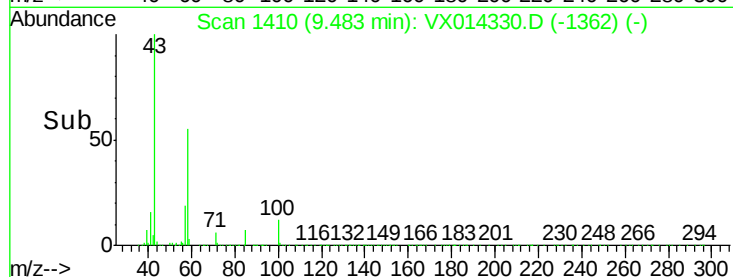
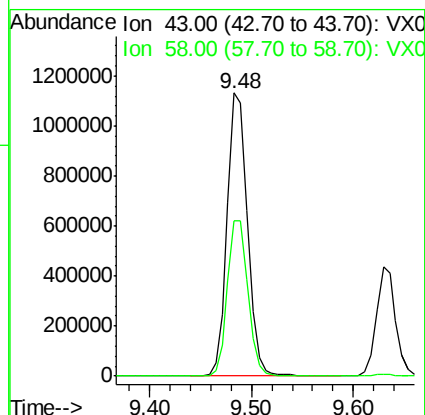
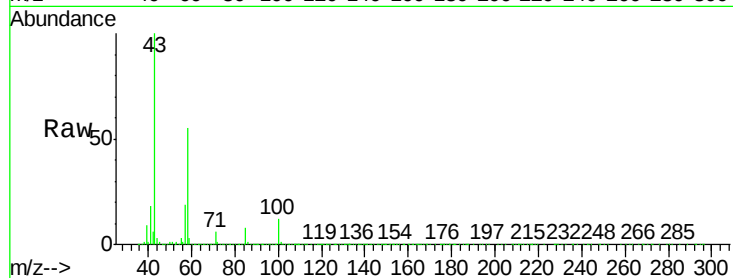




#59  
2-Hexanone  
Concen: 250.647 ug/l  
RT: 9.48 min Scan# 1410  
Delta R.T. -0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

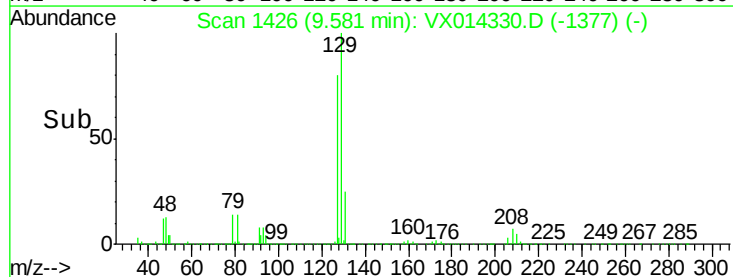
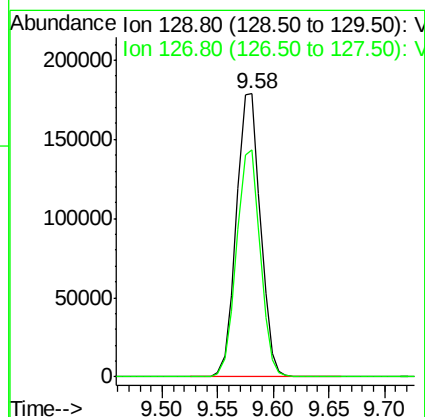
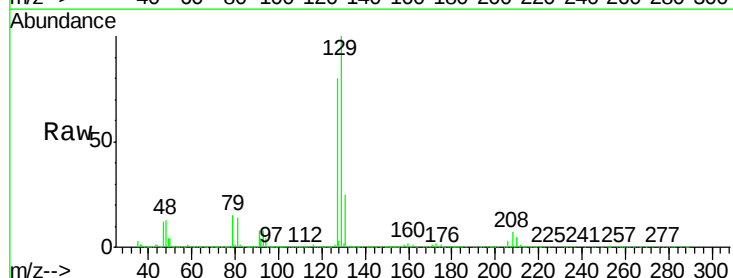
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

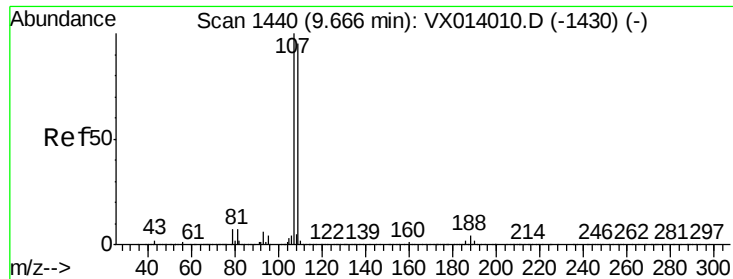
Tgt Ion: 43 Resp: 1564730  
Ion Ratio Lower Upper  
43 100  
58 56.2 28.0 84.0



#60  
Dibromochloromethane  
Concen: 51.122 ug/l  
RT: 9.58 min Scan# 1426  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 129 Resp: 267628  
Ion Ratio Lower Upper  
129 100  
127 79.0 38.4 115.2





#61

1,2-Dibromoethane

Concen: 50.816 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

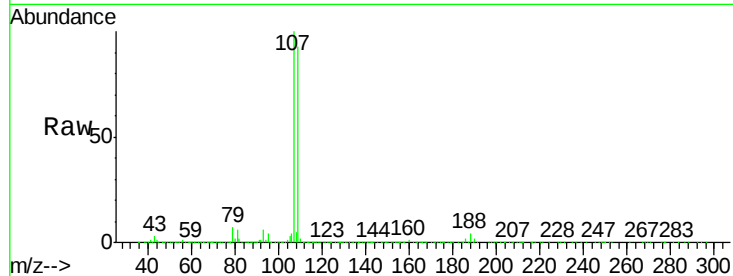
VSTDCCC050

Tgt Ion: 107 Resp: 273828

Ion Ratio Lower Upper

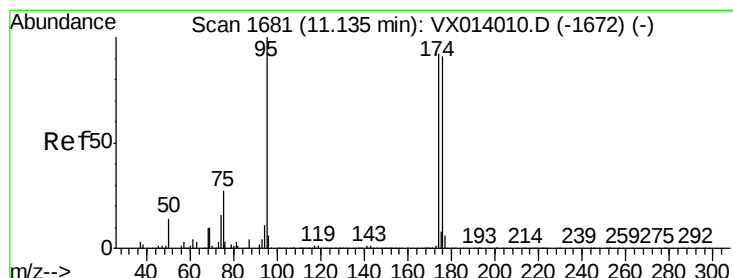
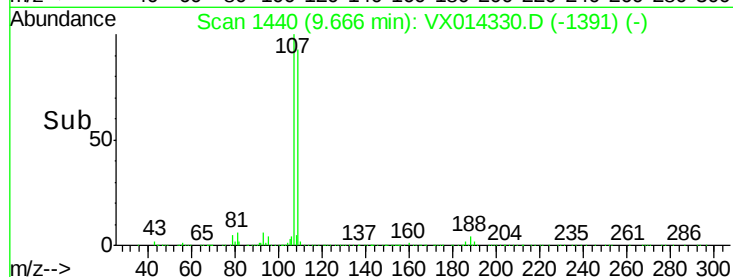
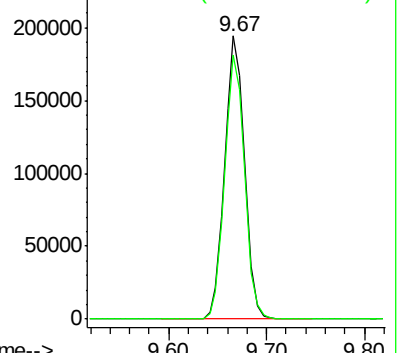
107 100

109 93.8 75.7 113.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 48.185 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

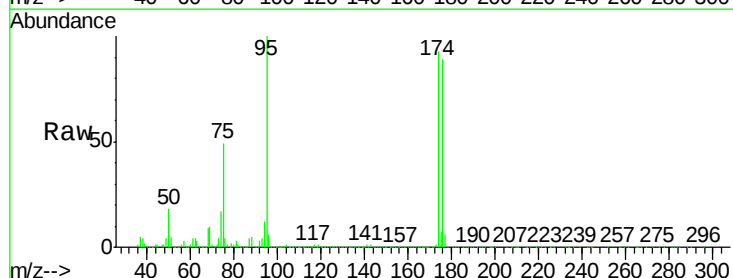
Tgt Ion: 95 Resp: 306970

Ion Ratio Lower Upper

95 100

174 87.0 0.0 175.8

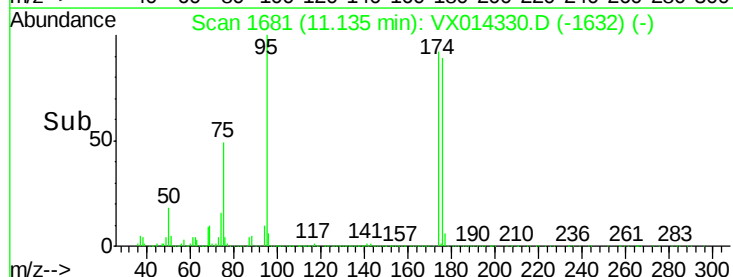
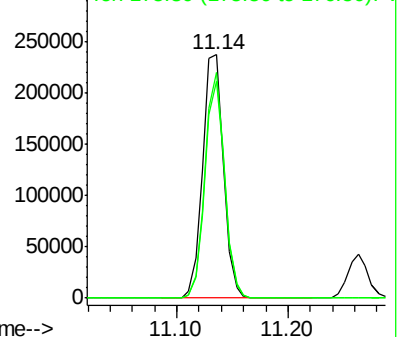
176 84.9 0.0 173.0

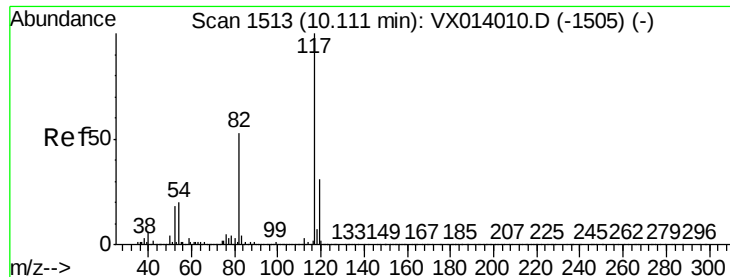


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

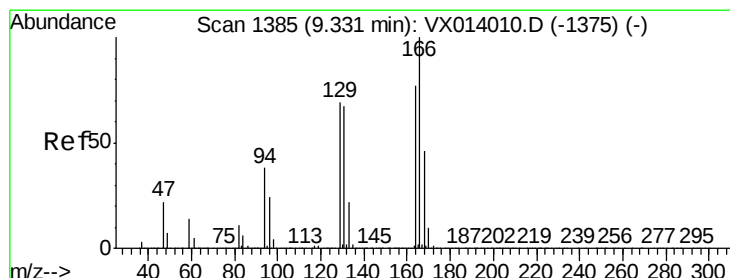
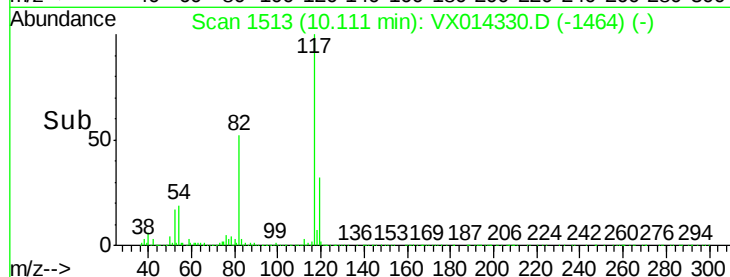
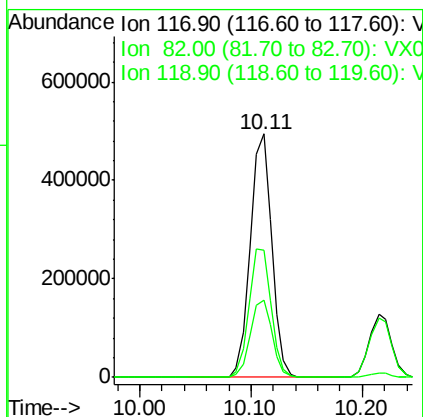
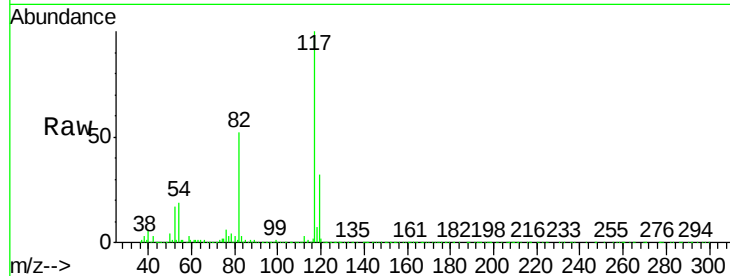




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

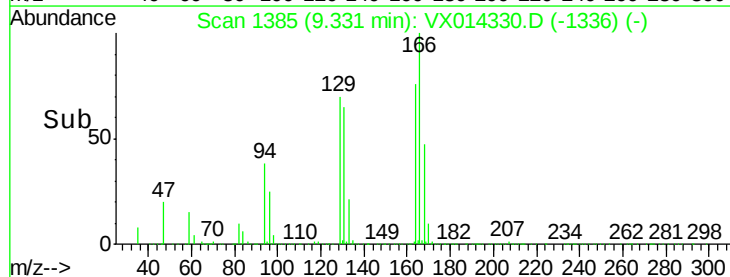
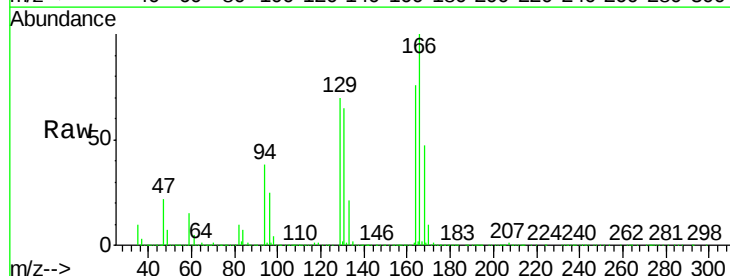
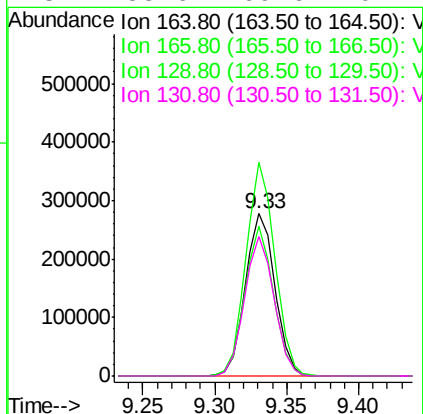
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion:117 Resp: 664702  
Ion Ratio Lower Upper  
117 100  
82 52.3 42.2 63.4  
119 31.7 25.1 37.7



#64  
Tetrachloroethene  
Concen: 66.668 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion:164 Resp: 392125  
Ion Ratio Lower Upper  
164 100  
166 131.6 104.0 156.0  
129 91.9 72.2 108.4  
131 85.6 69.6 104.4





#65

Chlorobenzene

Concen: 48.506 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

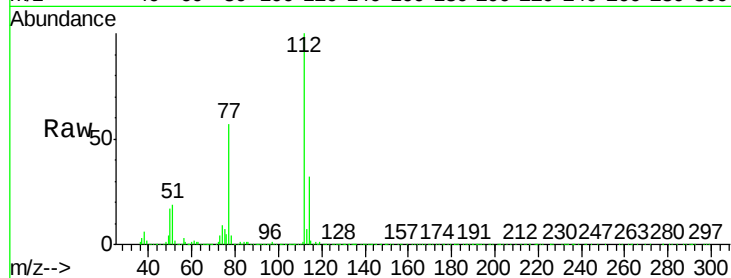
VSTDCCC050

Tgt Ion:112 Resp: 685546

Ion Ratio Lower Upper

112 100

114 31.8 24.9 37.3



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

600000

500000

400000

300000

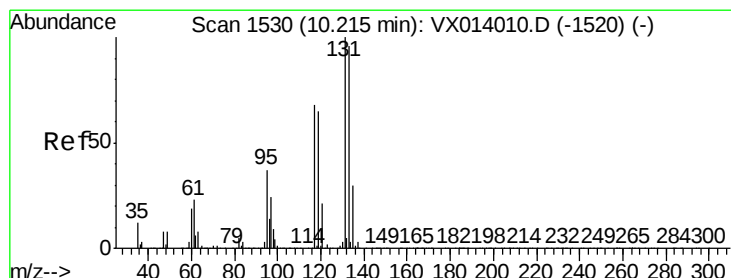
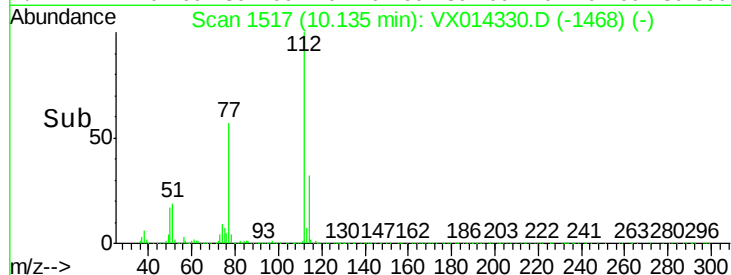
200000

100000

0

10.10 10.20 10.30

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 50.269 ug/l

RT: 10.21 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

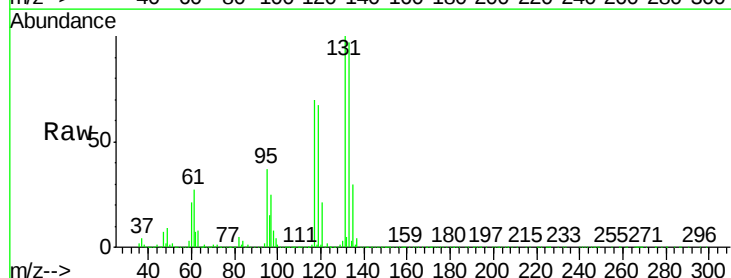
Tgt Ion:131 Resp: 253673

Ion Ratio Lower Upper

131 100

133 96.3 48.0 144.0

119 67.2 33.4 100.2



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

250000

200000

150000

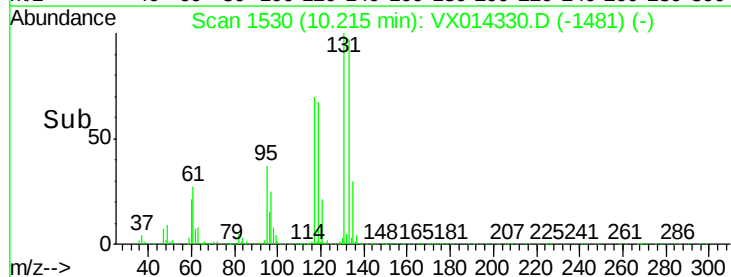
100000

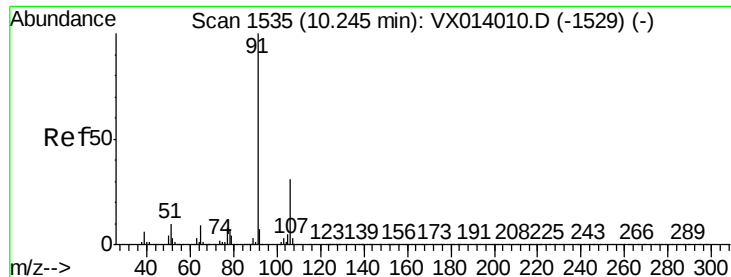
50000

0

10.10 10.20 10.30

Time-->

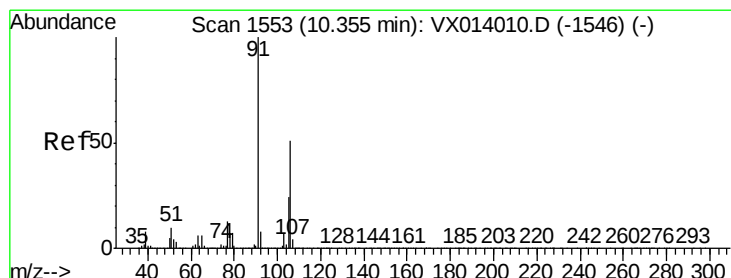
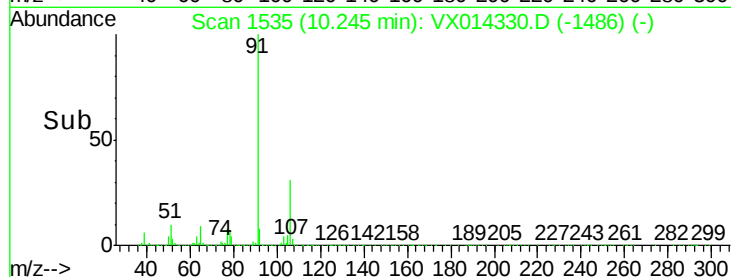
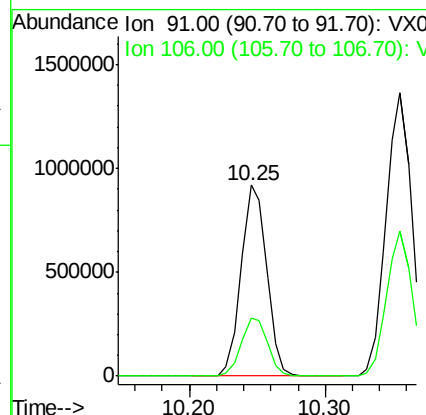
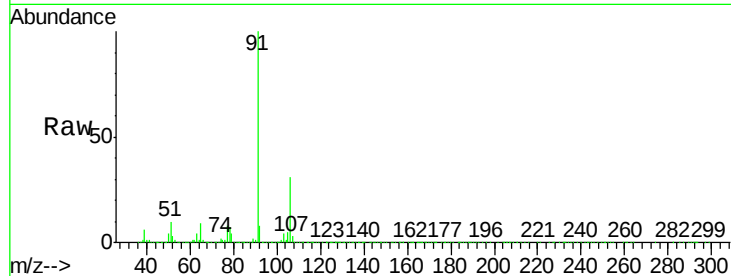




#67  
Ethyl Benzene  
Concen: 49.606 ug/l  
RT: 10.25 min Scan# 1535  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

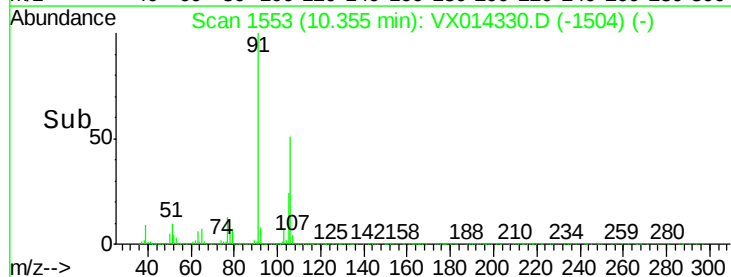
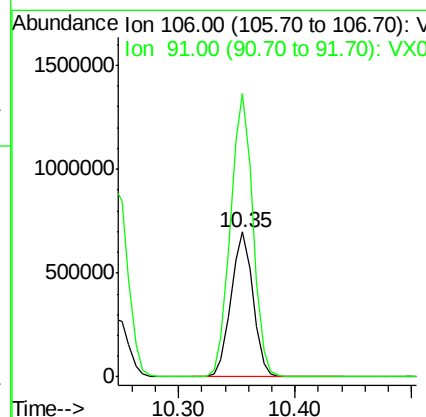
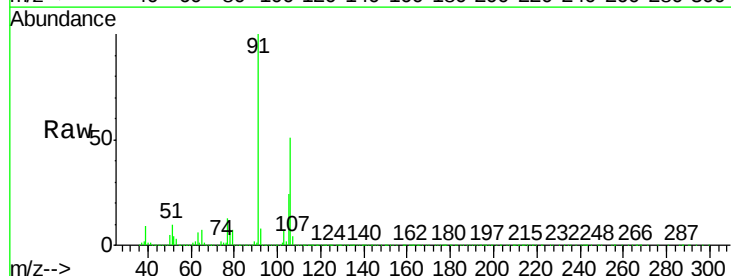
Instrument :  
MSVOA\_X  
ClientSampled :  
VSTDCCC050

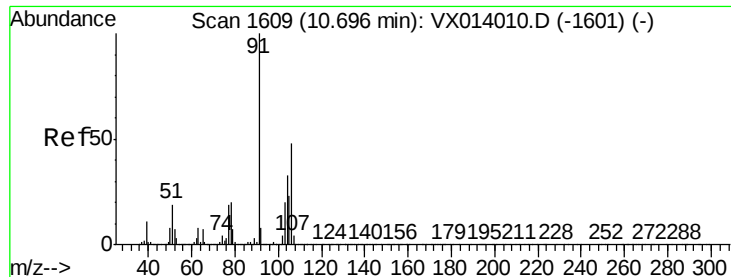
Tgt Ion: 91 Resp: 1205340  
Ion Ratio Lower Upper  
91 100  
106 30.7 25.0 37.6



#68  
m/p-Xylenes  
Concen: 97.807 ug/l  
RT: 10.35 min Scan# 1553  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 106 Resp: 914051  
Ion Ratio Lower Upper  
106 100  
91 197.9 158.6 238.0

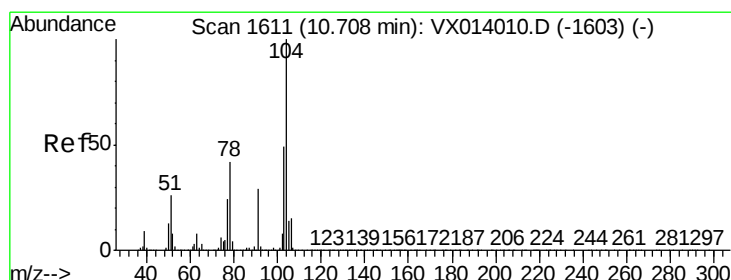
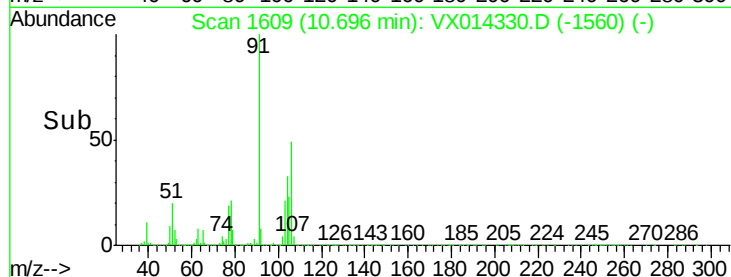
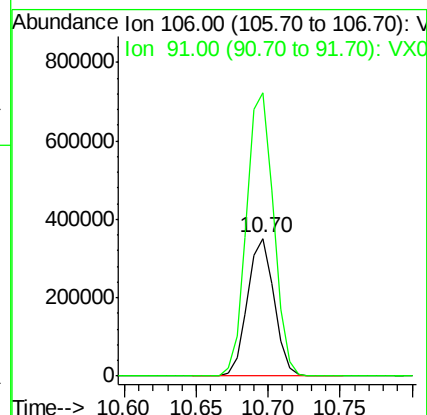
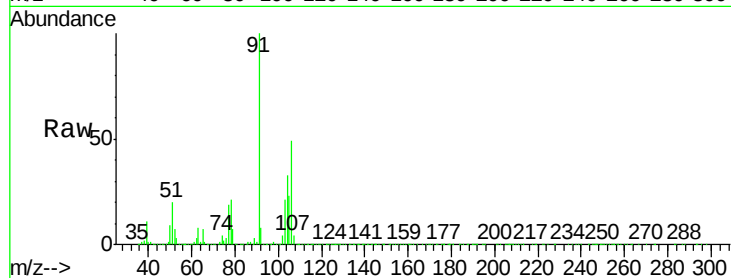




#69  
o-Xylene  
Concen: 48.913 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

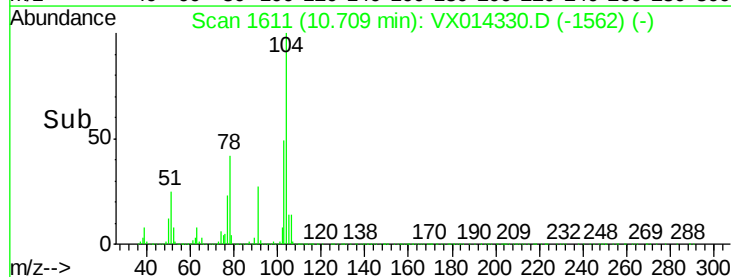
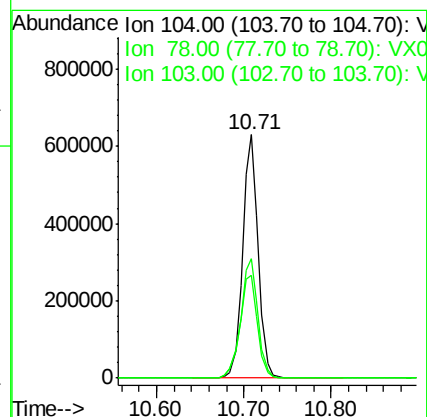
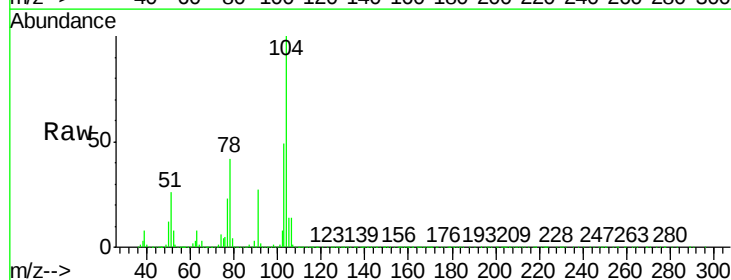
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

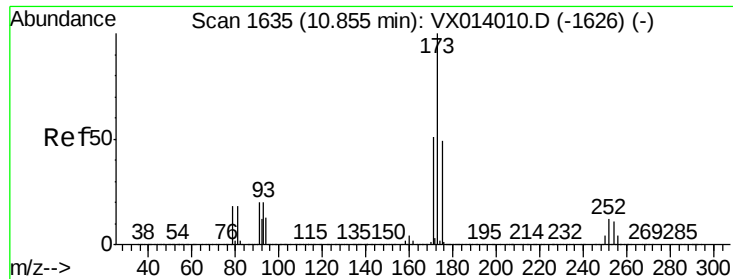
Tgt Ion:106 Resp: 448313  
Ion Ratio Lower Upper  
106 100  
91 209.6 104.2 312.6



#70  
Styrene  
Concen: 50.313 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion:104 Resp: 779785  
Ion Ratio Lower Upper  
104 100  
78 47.9 38.5 57.7  
103 53.8 42.9 64.3

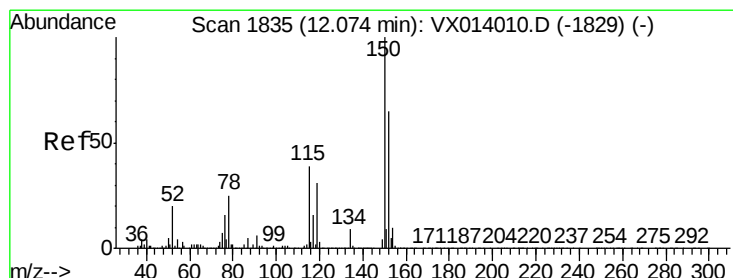
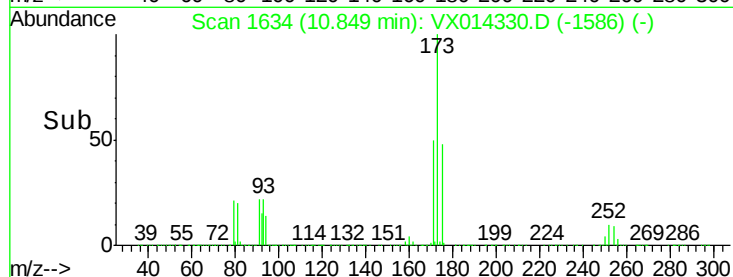
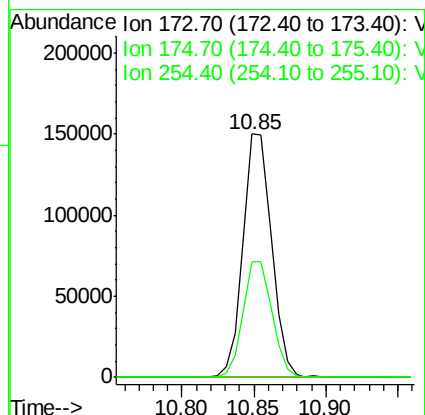
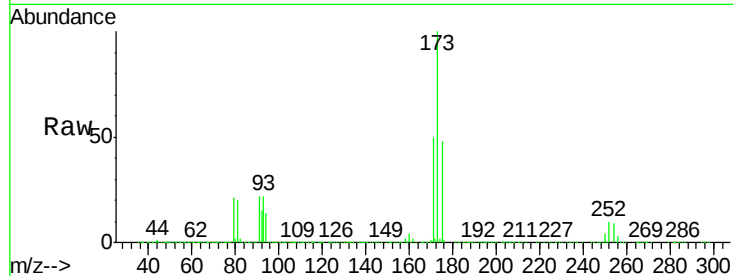




#71  
Bromoform  
Concen: 51.051 ug/l  
RT: 10.85 min Scan# 1634  
Delta R.T. -0.01 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

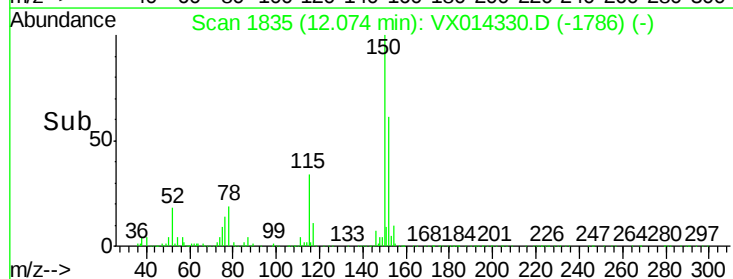
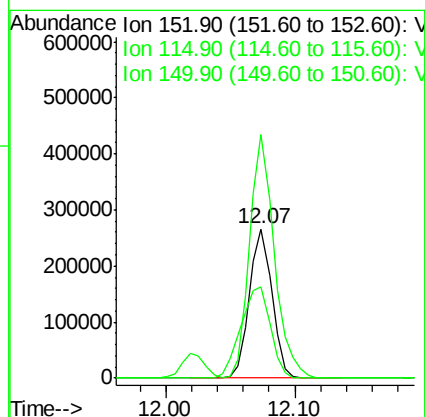
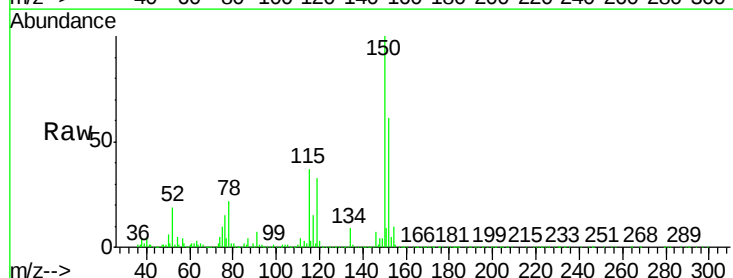
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

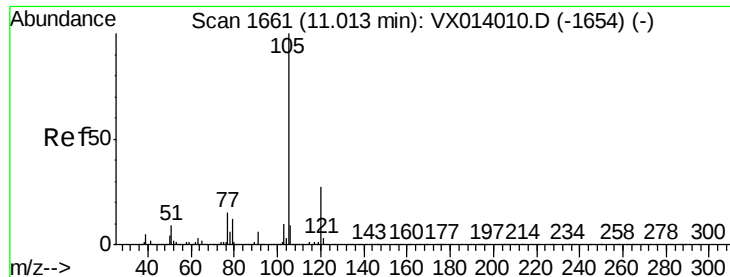
Tgt Ion:173 Resp: 207083  
Ion Ratio Lower Upper  
173 100  
175 48.4 24.4 73.4  
254 0.3 0.2 0.2#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion:152 Resp: 320277  
Ion Ratio Lower Upper  
152 100  
115 80.3 38.3 114.9  
150 178.0 0.0 345.4





#73

Isopropylbenzene

Concen: 51.646 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

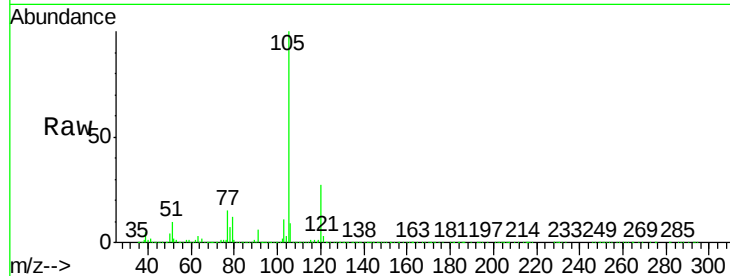
VSTDCCC050

Tgt Ion:105 Resp: 1164605

Ion Ratio Lower Upper

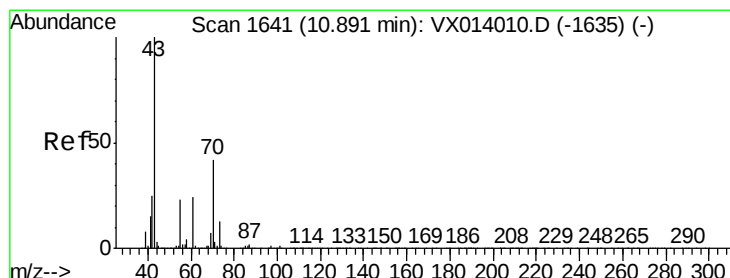
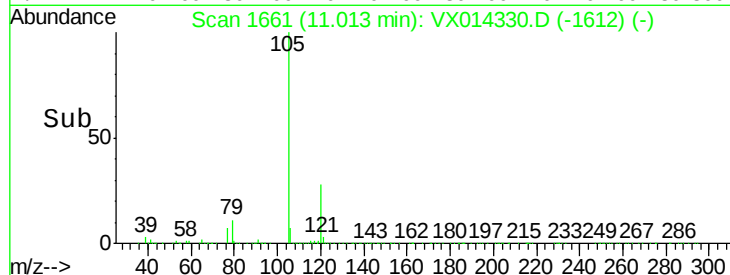
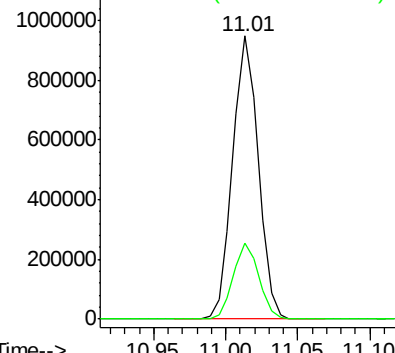
105 100

120 26.9 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 52.673 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Tgt Ion: 43 Resp: 556759

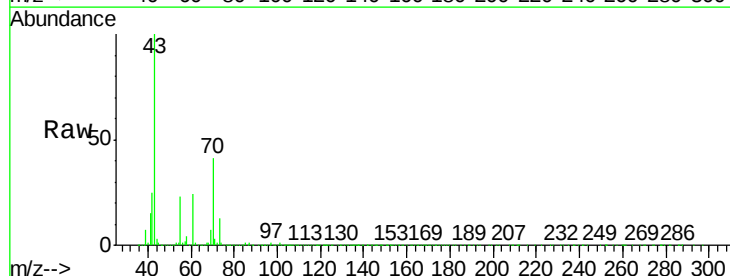
Ion Ratio Lower Upper

43 100

70 43.0 34.4 51.6

55 24.1 19.1 28.7

61 24.6 19.7 29.5

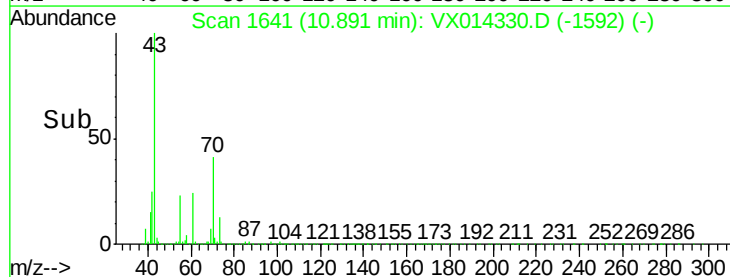
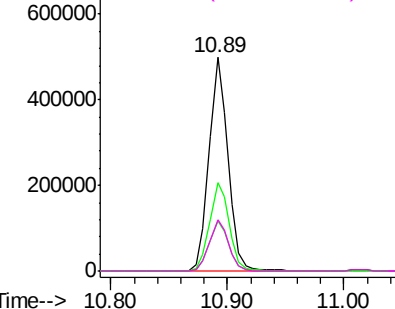


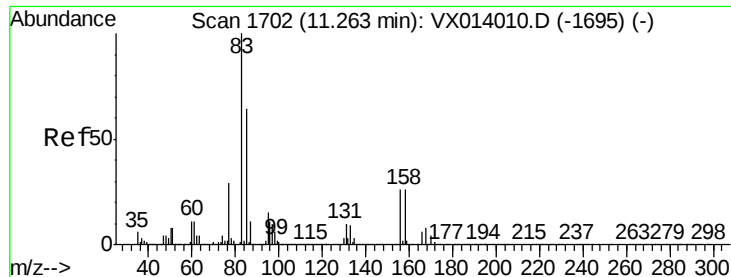
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 47.990 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

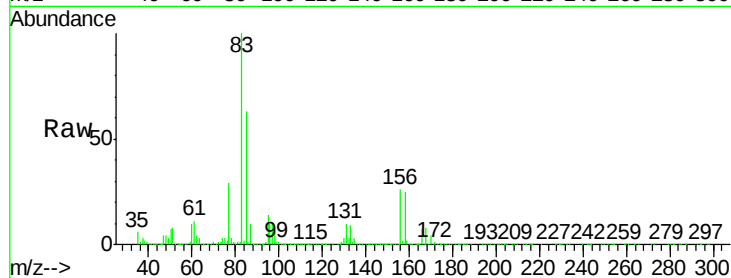
Tgt Ion: 83 Resp: 375182

Ion Ratio Lower Upper

83 100

131 9.9 5.1 15.2

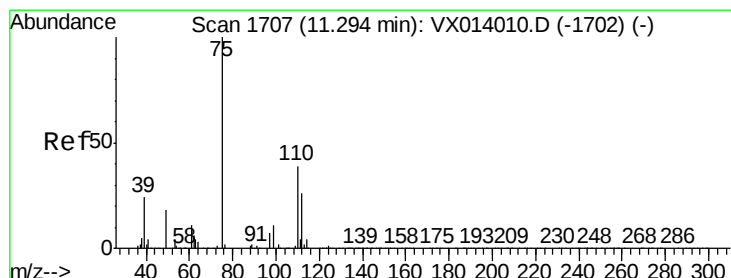
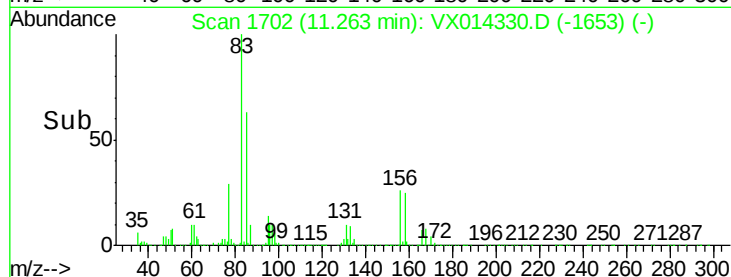
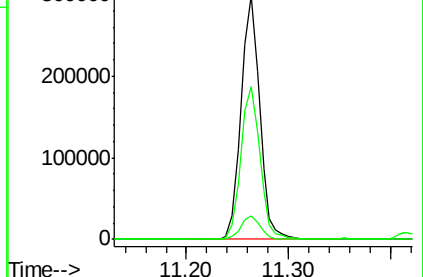
85 64.0 31.9 95.7



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 66.309 ug/l

RT: 11.29 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VX014330.D

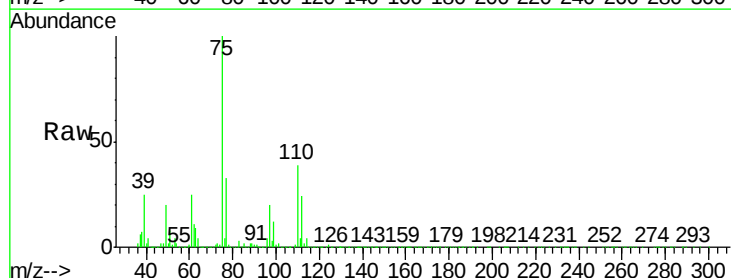
Acq: 27 Dec 2019 23:54

Tgt Ion: 75 Resp: 461060

Ion Ratio Lower Upper

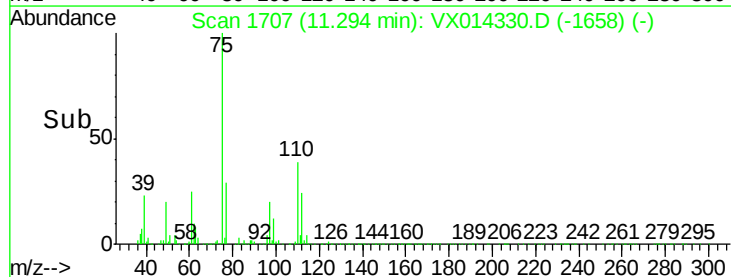
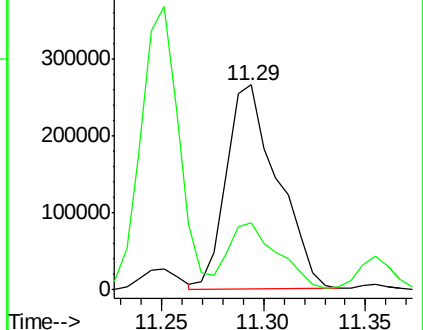
75 100

77 31.4 19.3 57.8



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 49.538 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

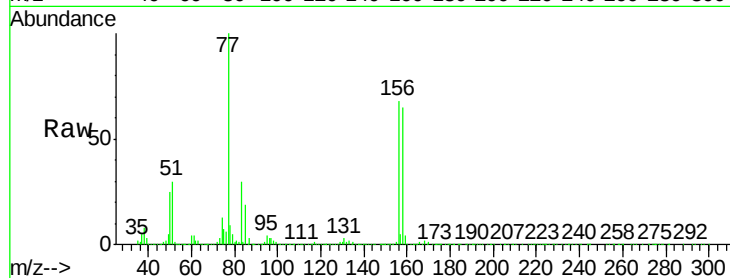
Tgt Ion: 156 Resp: 307347

Ion Ratio Lower Upper

156 100

77 154.8 76.5 229.5

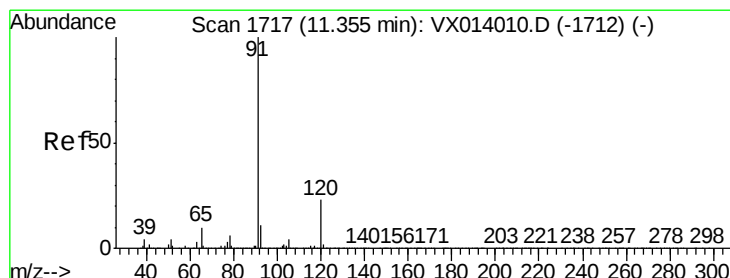
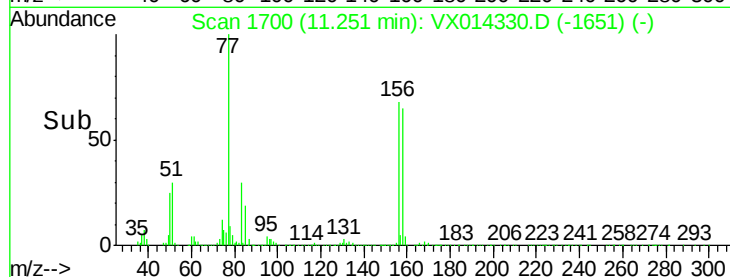
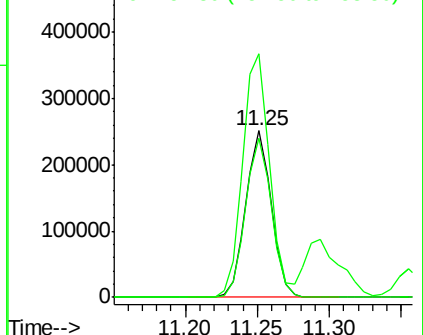
158 96.9 49.3 147.9



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 52.315 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX014330.D

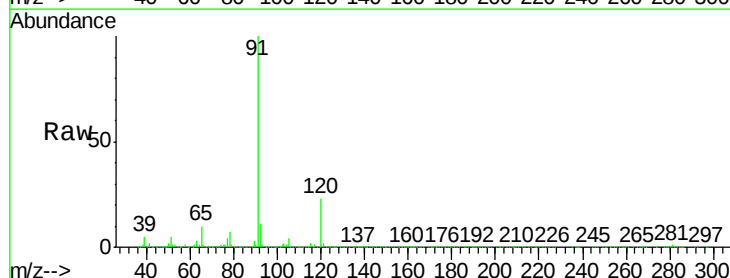
Acq: 27 Dec 2019 23:54

Tgt Ion: 91 Resp: 1323238

Ion Ratio Lower Upper

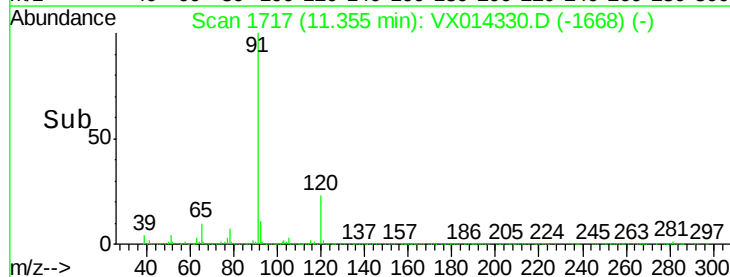
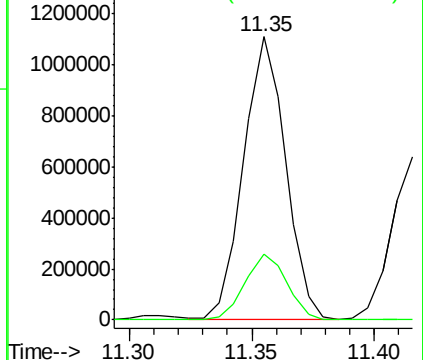
91 100

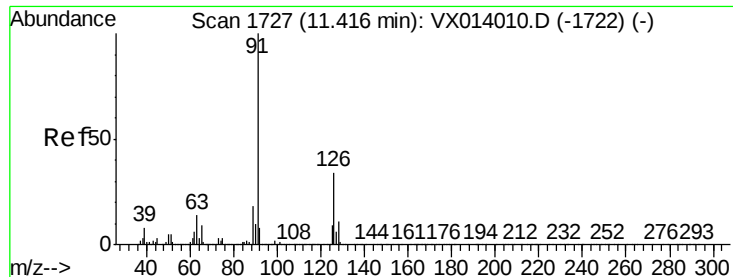
120 23.3 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

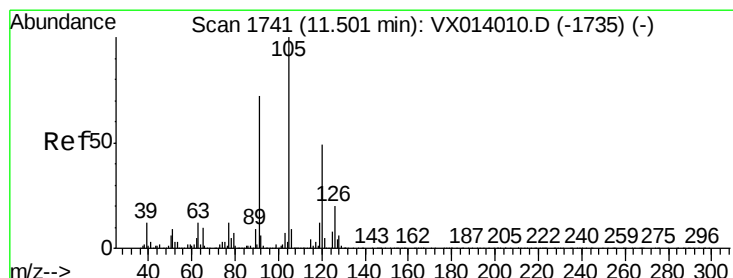
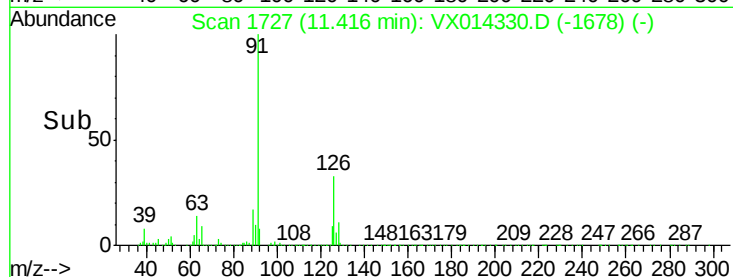
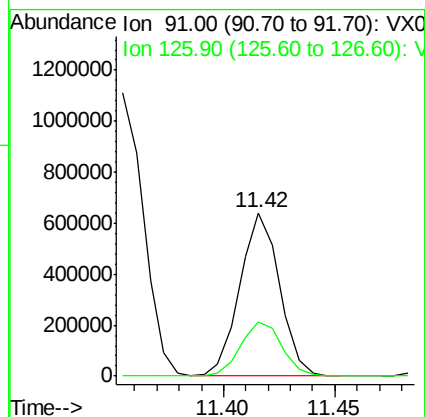
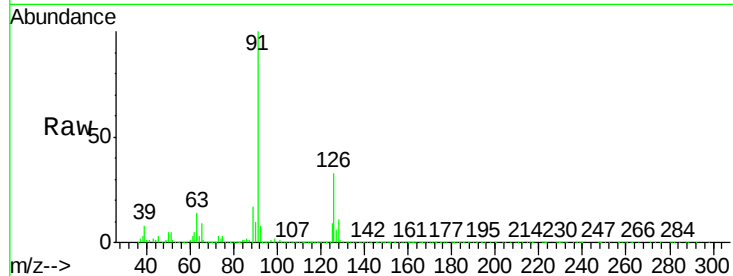




#79  
2-Chlorotoluene  
Concen: 51.691 ug/l  
RT: 11.42 min Scan# 1727  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

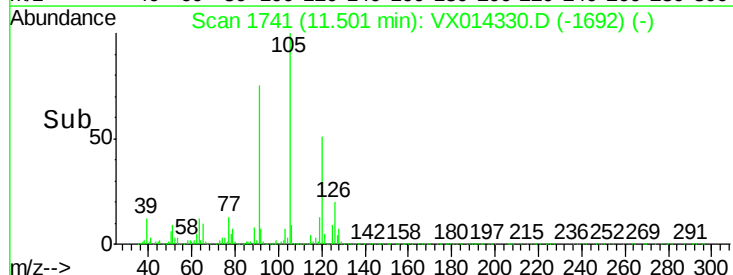
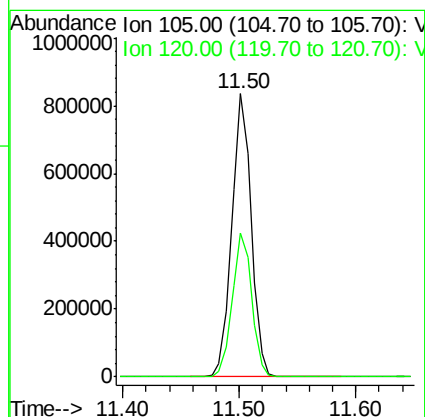
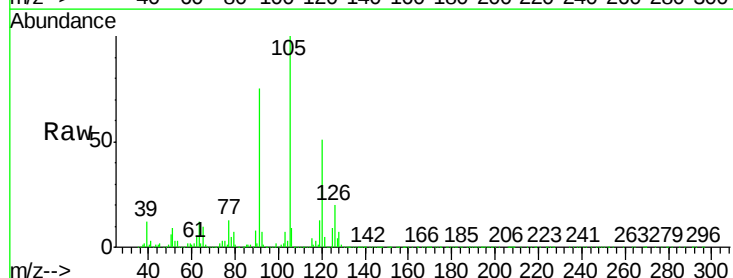
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 91 Resp: 794775  
Ion Ratio Lower Upper  
91 100  
126 34.7 17.2 51.6



#80  
1,3,5-Trimethylbenzene  
Concen: 50.883 ug/l  
RT: 11.50 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 105 Resp: 965661  
Ion Ratio Lower Upper  
105 100  
120 51.2 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 52.462 ug/l

RT: 11.07 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VX014330.D

Acq: 27 Dec 2019 23:54

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

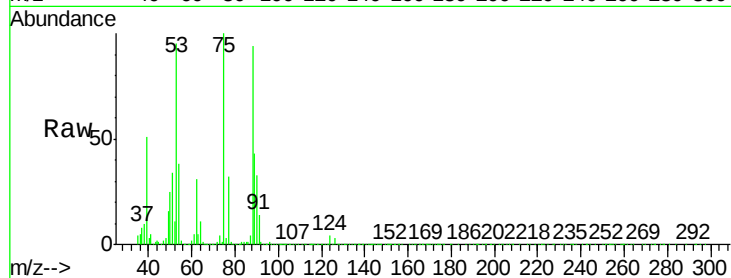
Tgt Ion: 75 Resp: 129238

Ion Ratio Lower Upper

75 100

53 96.8 76.7 115.1

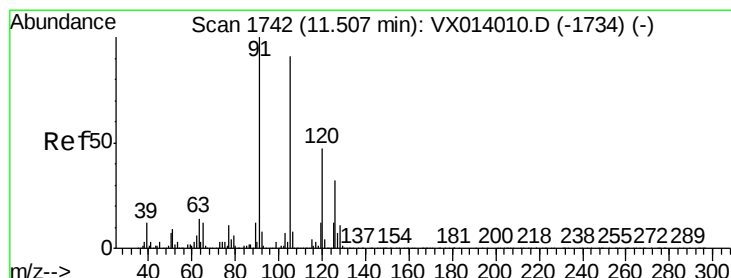
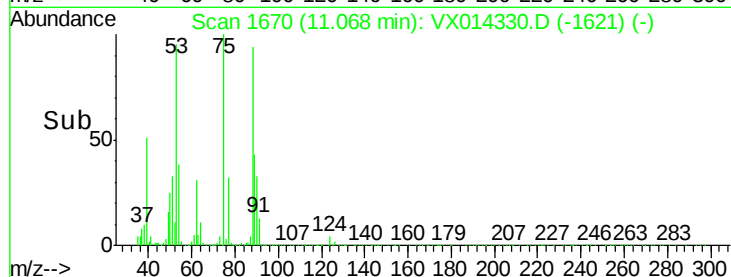
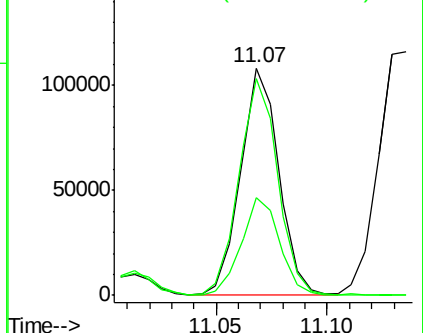
89 43.9 34.6 51.8



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 50.888 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VX014330.D

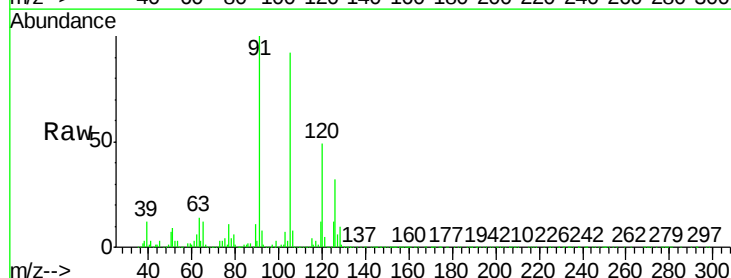
Acq: 27 Dec 2019 23:54

Tgt Ion: 91 Resp: 907582

Ion Ratio Lower Upper

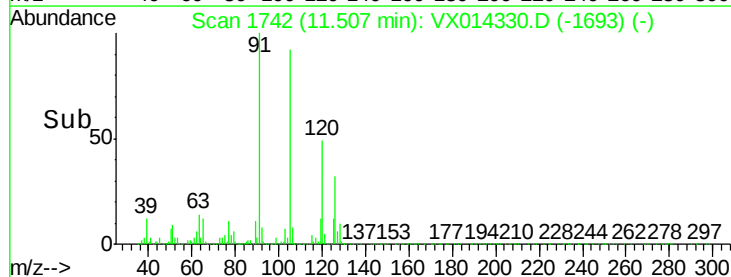
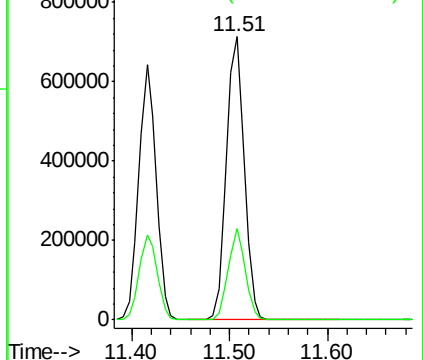
91 100

126 30.7 15.6 46.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

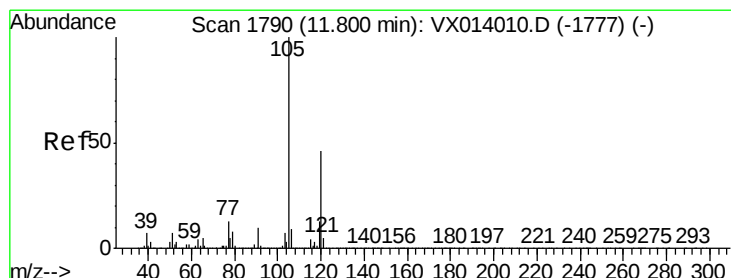
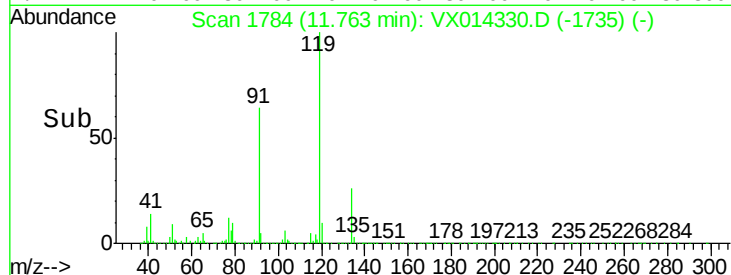
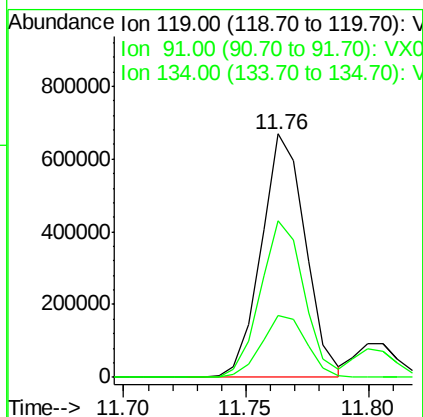
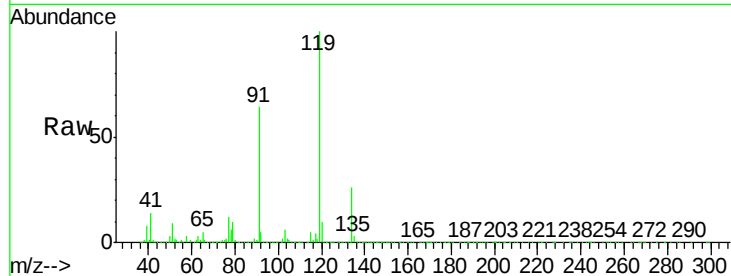




#83  
tert-Butylbenzene  
Concen: 45.202 ug/l  
RT: 11.76 min Scan# 1784  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

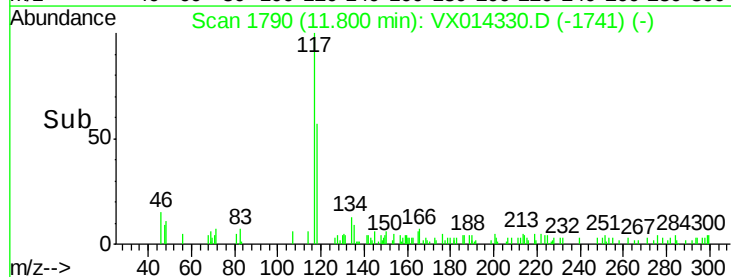
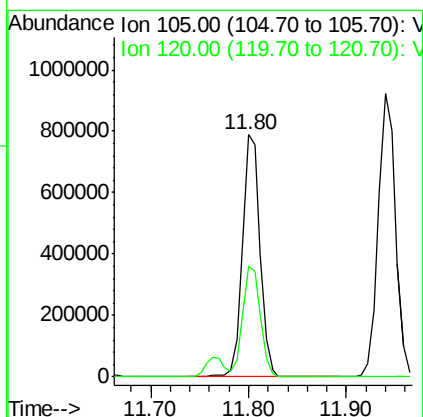
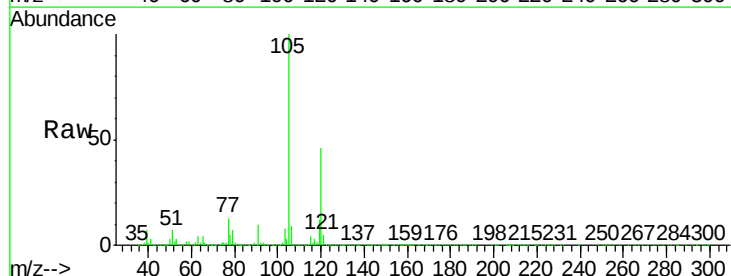
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

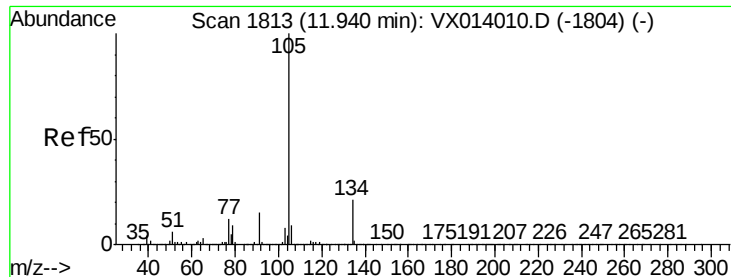
Tgt Ion:119 Resp: 834828  
Ion Ratio Lower Upper  
119 100  
91 64.0 28.5 85.6  
134 26.1 12.2 36.6



#84  
1,2,4-Trimethylbenzene  
Concen: 51.470 ug/l  
RT: 11.80 min Scan# 1790  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion:105 Resp: 978219  
Ion Ratio Lower Upper  
105 100  
120 46.1 23.1 69.2

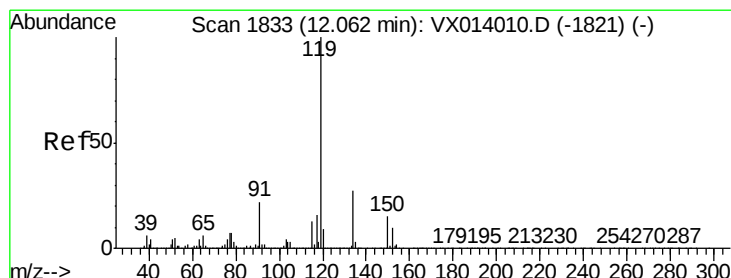
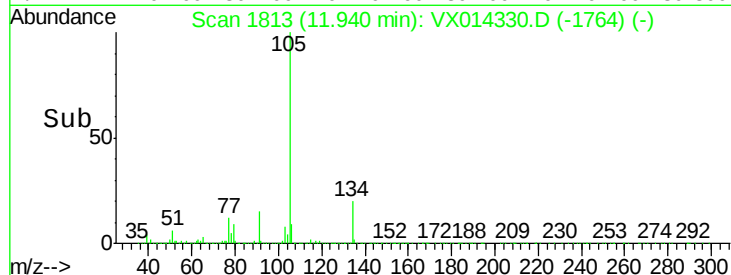
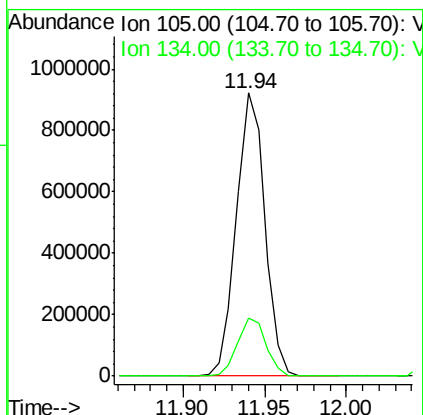
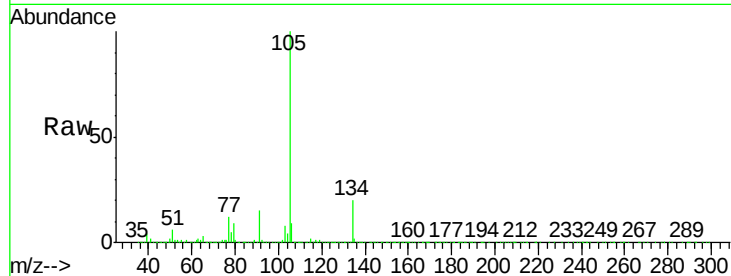




#85  
 sec-Butylbenzene  
 Concen: 51.589 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

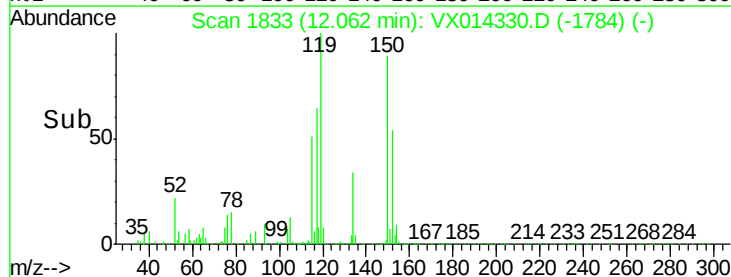
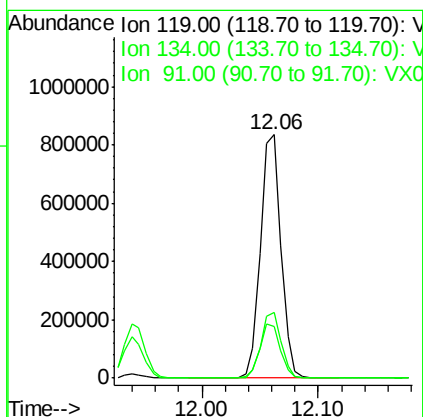
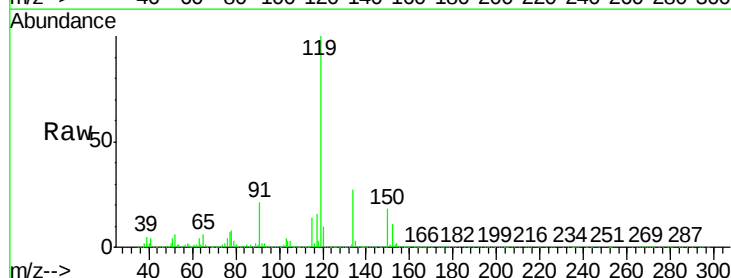
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

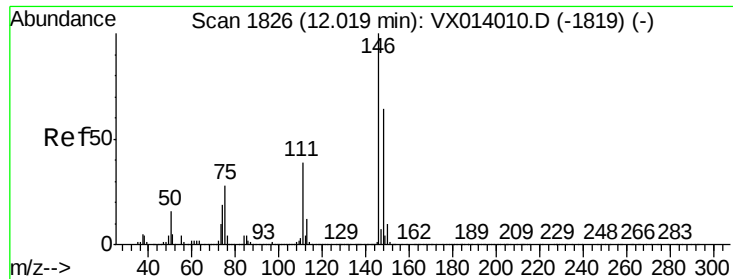
Tgt Ion:105 Resp: 1124798  
 Ion Ratio Lower Upper  
 105 100  
 134 20.6 10.4 31.1



#86  
 p-Isopropyltoluene  
 Concen: 51.788 ug/l  
 RT: 12.06 min Scan# 1833  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

Tgt Ion:119 Resp: 1032854  
 Ion Ratio Lower Upper  
 119 100  
 134 26.6 13.4 40.1  
 91 22.2 11.4 34.1

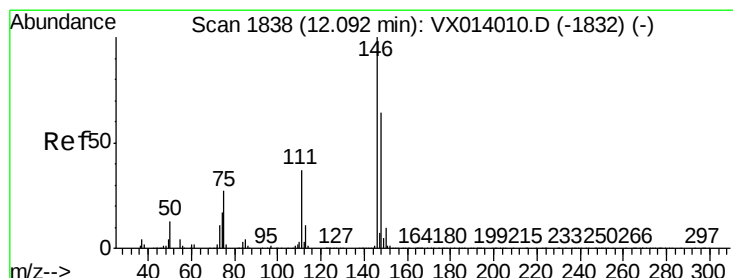
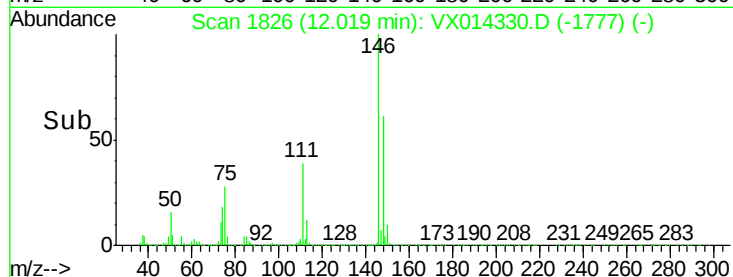
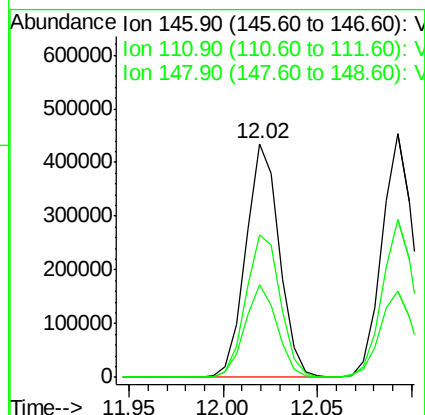
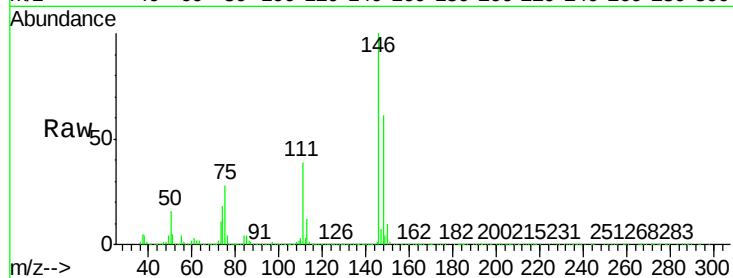




#87  
 1,3-Dichlorobenzene  
 Concen: 49.169 ug/l  
 RT: 12.02 min Scan# 1826  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

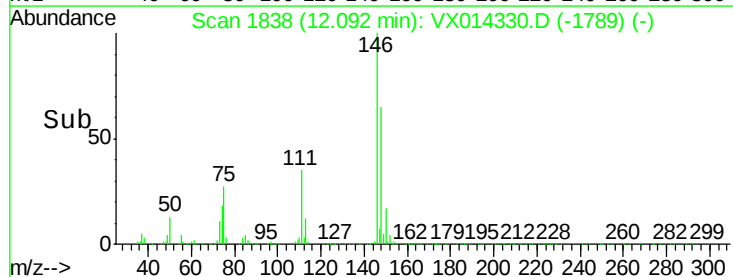
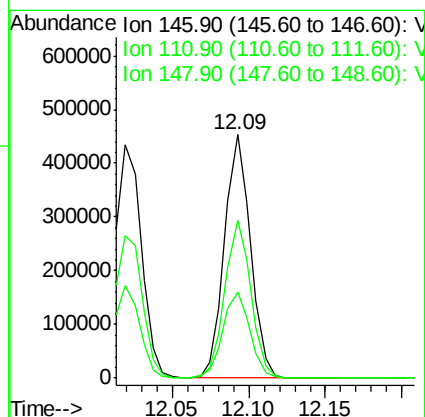
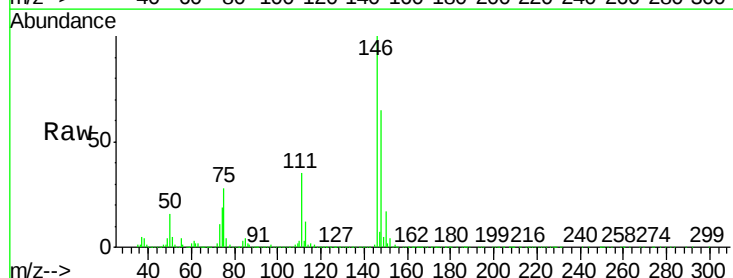
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Tgt Ion:146 Resp: 534649  
 Ion Ratio Lower Upper  
 146 100  
 111 38.4 19.1 57.1  
 148 62.9 32.3 96.9



#88  
 1,4-Dichlorobenzene  
 Concen: 48.326 ug/l  
 RT: 12.09 min Scan# 1838  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

Tgt Ion:146 Resp: 534310  
 Ion Ratio Lower Upper  
 146 100  
 111 36.9 18.7 56.1  
 148 64.5 31.9 95.9

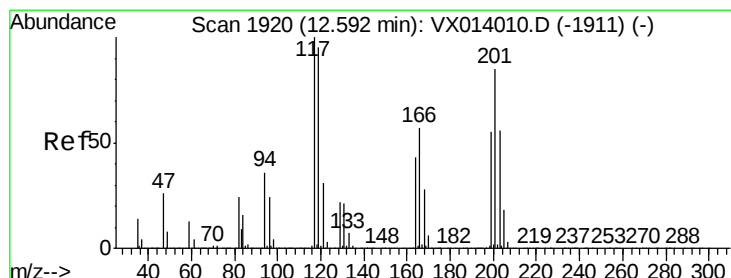
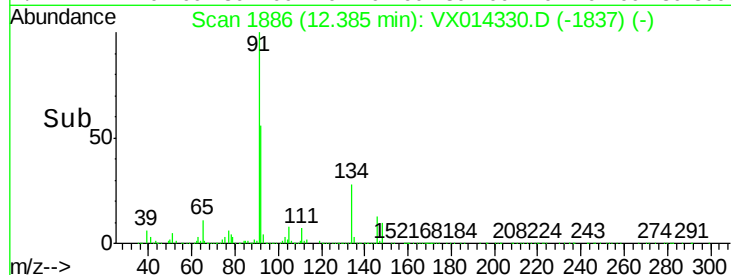
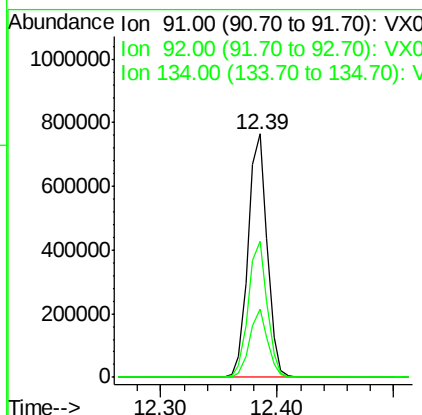
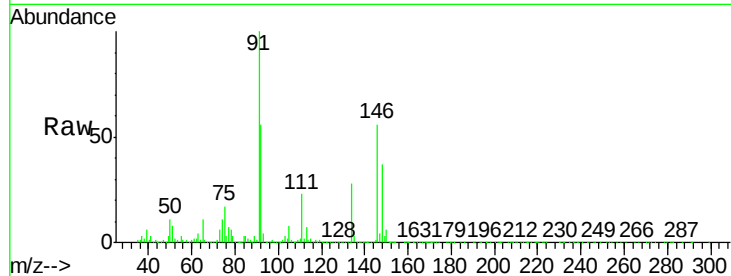




#89  
n-Butylbenzene  
Concen: 51.481 ug/l  
RT: 12.39 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

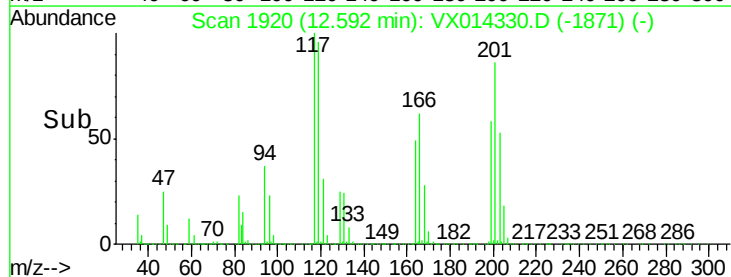
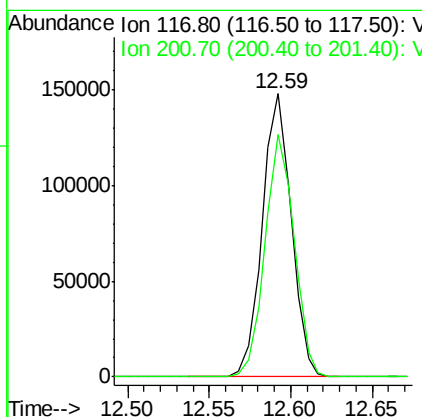
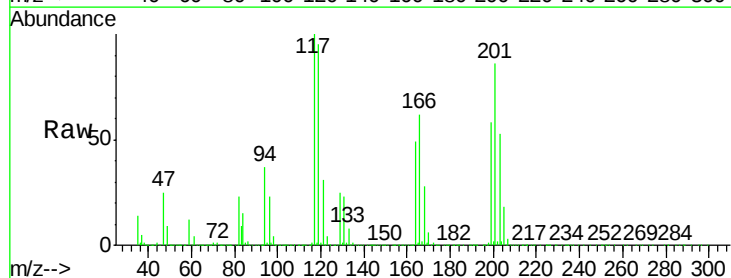
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 91 Resp: 876077  
Ion Ratio Lower Upper  
91 100  
92 55.3 27.2 81.6  
134 26.6 13.4 40.1



#90  
Hexachloroethane  
Concen: 50.702 ug/l  
RT: 12.59 min Scan# 1920  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion: 117 Resp: 181630  
Ion Ratio Lower Upper  
117 100  
201 86.0 43.1 129.3

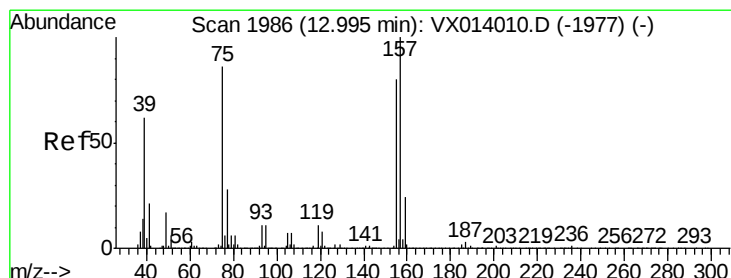
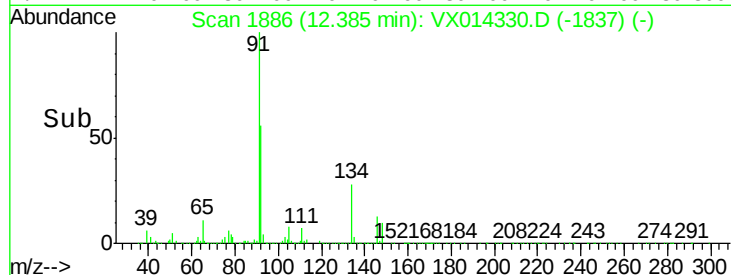
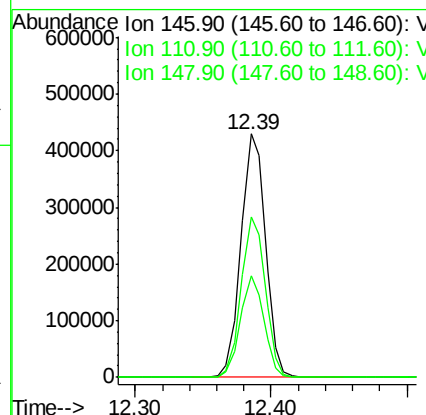
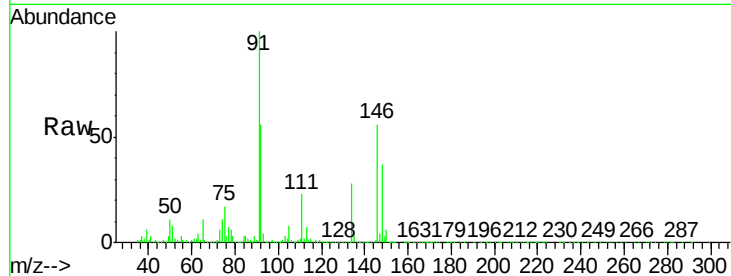




#91  
 1,2-Dichlorobenzene  
 Concen: 49.232 ug/l  
 RT: 12.39 min Scan# 1886  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

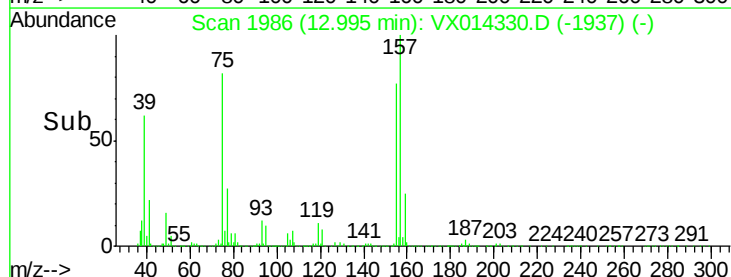
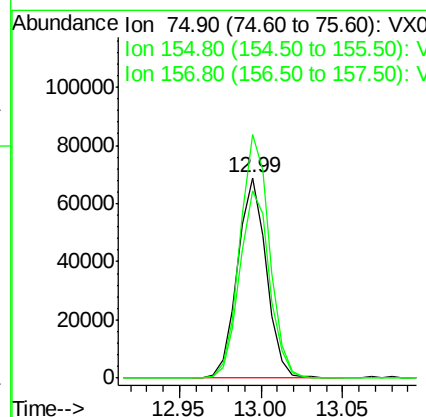
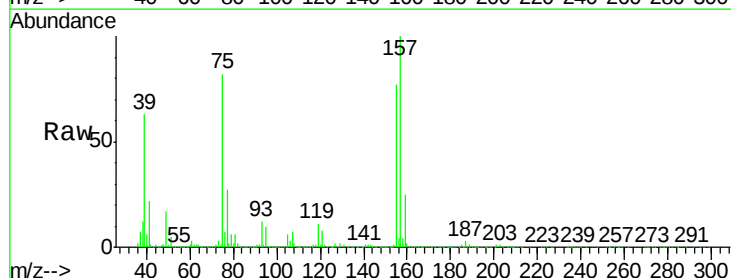
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.0  | 19.7  | 59.1  |
| 148     | 65.0  | 32.1  | 96.5  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 48.589 ug/l  
 RT: 12.99 min Scan# 1986  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 98.0  | 46.9  | 140.6 |
| 157     | 125.3 | 60.8  | 182.4 |

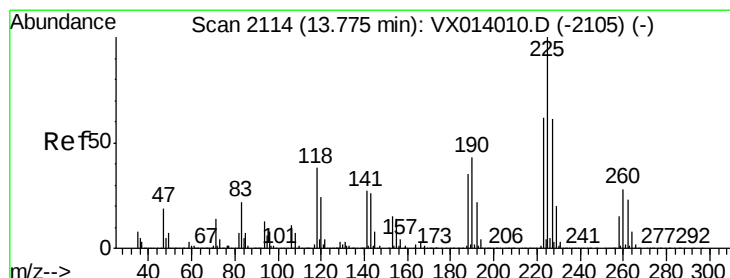
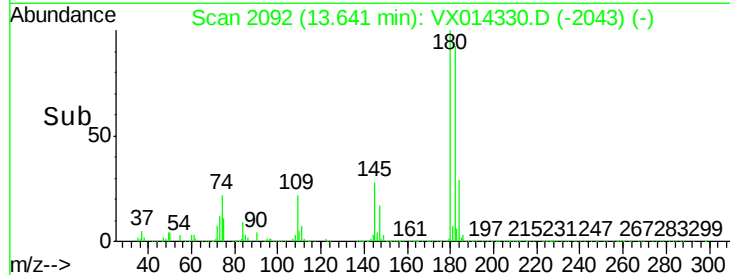
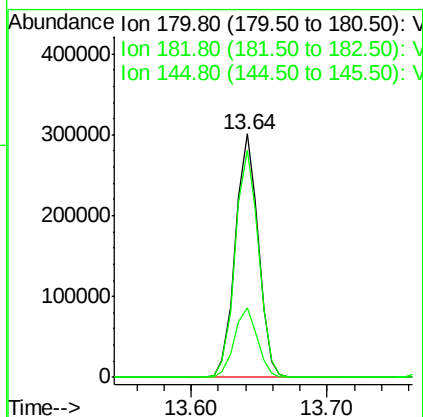
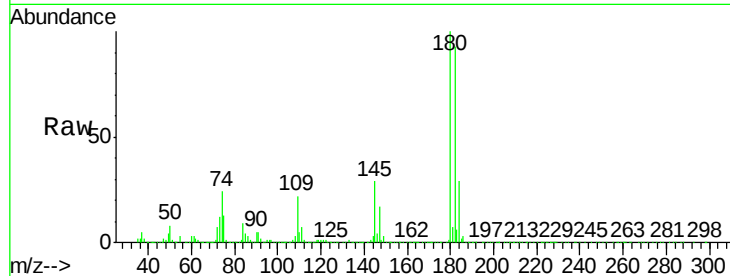




#93  
 1,2,4-Trichlorobenzene  
 Concen: 49.684 ug/l  
 RT: 13.64 min Scan# 2092  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

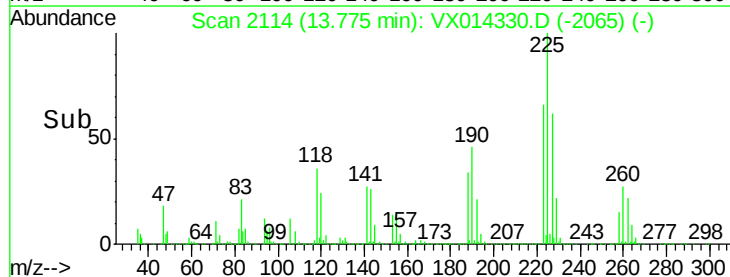
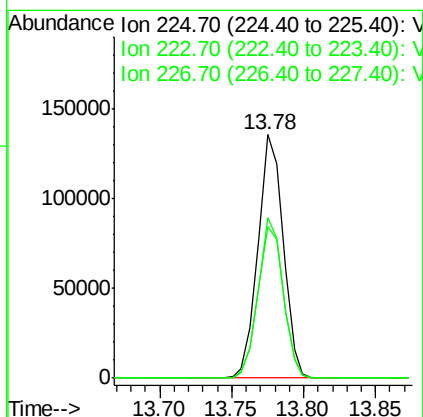
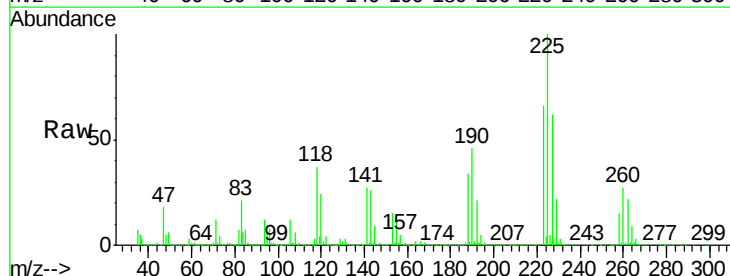
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

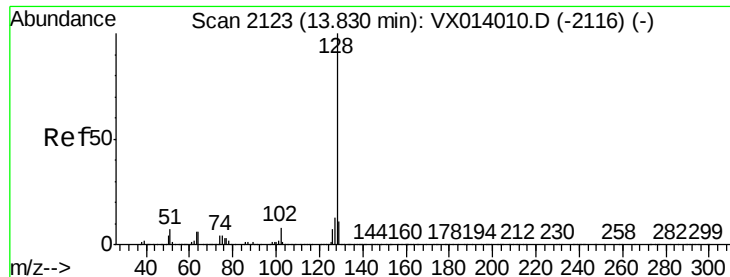
Tgt Ion:180 Resp: 353479  
 Ion Ratio Lower Upper  
 180 100  
 182 95.2 46.6 139.8  
 145 28.8 14.2 42.6



#94  
 Hexachlorobutadiene  
 Concen: 47.947 ug/l  
 RT: 13.78 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VX014330.D  
 Acq: 27 Dec 2019 23:54

Tgt Ion:225 Resp: 163941  
 Ion Ratio Lower Upper  
 225 100  
 223 64.5 30.9 92.5  
 227 63.4 30.9 92.7

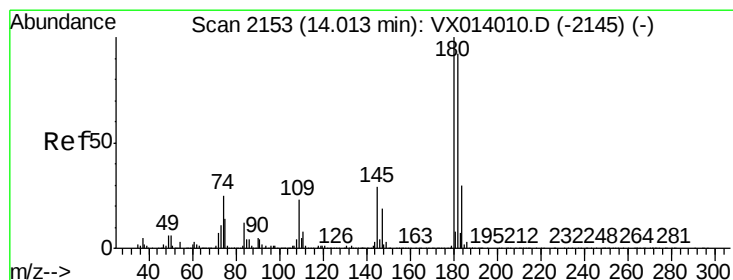
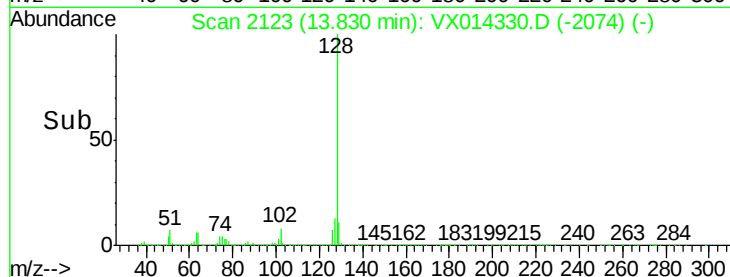
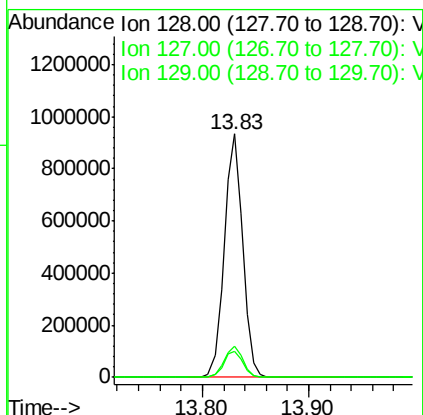
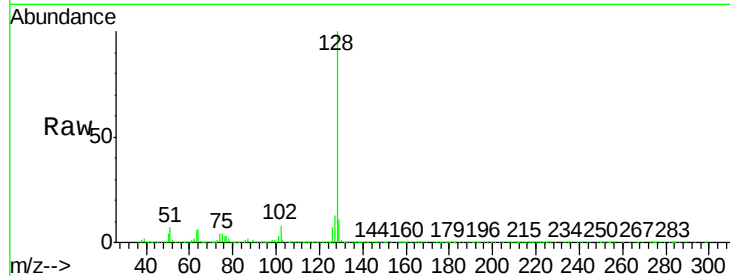




#95  
Naphthalene  
Concen: 53.657 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion:128 Resp: 1121576  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.2 15.4  
129 10.9 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 51.675 ug/l  
RT: 14.01 min Scan# 2153  
Delta R.T. 0.00 min  
Lab File: VX014330.D  
Acq: 27 Dec 2019 23:54

Tgt Ion:180 Resp: 362916  
Ion Ratio Lower Upper  
180 100  
182 94.8 46.8 140.3  
145 29.8 14.8 44.4

