

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\  
 Data File : VX013994.D  
 Acq On : 13 Dec 2019 00:07  
 Operator : JC/SP  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC100

Quant Time: Dec 13 01:22:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Dec 13 01:15:47 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.01  | 128  | 86731    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 493742   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 456279   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 189741   | 29.57    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 98.57%  |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 225683   | 30.67    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 102.23% |
| 63) Toluene-d8            | 8.71   | 98    | 597695   | 28.94    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 96.47%  |

## Target Compounds

|                               |      |     |         |         | Ovalue    |
|-------------------------------|------|-----|---------|---------|-----------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 438938  | 72.001  | ug/l 99   |
| 3) Chloromethane              | 1.31 | 50  | 615401  | 88.307  | ug/l 97   |
| 4) Vinyl Chloride             | 1.40 | 62  | 653508  | 84.369  | ug/l 100  |
| 5) Bromomethane               | 1.62 | 94  | 451842  | 92.201  | ug/l 98   |
| 6) Chloroethane               | 1.70 | 64  | 398449  | 91.580  | ug/l 98   |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 810433  | 94.192  | ug/l 100  |
| 8) Diethyl Ether              | 2.18 | 74  | 383626  | 97.485  | ug/l 94   |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 482135  | 93.687  | ug/l 99   |
| 10) 1,1-Dichloroethene        | 2.36 | 96  | 509896  | 96.100  | ug/l 99   |
| 11) Methyl Iodide             | 2.50 | 142 | 725412  | 109.780 | ug/l 99   |
| 12) Methyl Acetate            | 2.77 | 43  | 770430  | 84.424  | ug/l 99   |
| 13) Acrolein                  | 2.28 | 56  | 498569  | 496.297 | ug/l 99   |
| 14) Acrylonitrile             | 3.13 | 53  | 1531991 | 452.834 | ug/l 100  |
| 15) Acetone                   | 2.44 | 58  | 429292  | 433.689 | ug/l 90   |
| 16) Carbon Disulfide          | 2.56 | 76  | 1424818 | 96.914  | ug/l 99   |
| 17) Allyl chloride            | 2.72 | 41  | 932183  | 95.723  | ug/l 98   |
| 18) Methylene Chloride        | 2.84 | 84  | 590938  | 96.287  | ug/l 97   |
| 19) trans-1,2-Dichloroethene  | 3.16 | 96  | 554169  | 97.178  | ug/l 99   |
| 20) Diisopropyl ether         | 3.84 | 45  | 1874669 | 98.548  | ug/l 97   |
| 21) 1,1-Dichloroethane        | 3.69 | 63  | 1012283 | 97.980  | ug/l 99   |
| 22) cis-1,2-Dichloroethene    | 4.58 | 96  | 638605  | 97.782  | ug/l 99   |
| 23) tert-Butyl Alcohol        | 2.77 | 59  | 64426   | 40.353  | ug/l 100  |
| 24) Methyl tert-Butyl Ether   | 3.19 | 73  | 1729862 | 97.939  | ug/l 99   |
| 25) Chloroform                | 5.20 | 83  | 974916  | 96.716  | ug/l 100  |
| 26) Cyclohexane               | 5.57 | 56  | 914639  | 97.418  | ug/l # 99 |
| 29) 1,1-Dichloropropene       | 5.79 | 75  | 744965  | 99.067  | ug/l 100  |
| 30) 2-Butanone                | 4.66 | 43  | 2160649 | 450.646 | ug/l 99   |
| 31) 2,2-Dichloropropane       | 4.57 | 77  | 699967  | 88.798  | ug/l 100  |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 828315  | 99.809  | ug/l 99   |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 715913  | 99.812  | ug/l 98   |
| 34) Benzene                   | 6.13 | 78  | 2303401 | 100.770 | ug/l 97   |
| 35) Methacrylonitrile         | 5.03 | 41  | 473123  | 96.383  | ug/l 96   |
| 36) 1,2-Dichloroethane        | 6.18 | 62  | 789384  | 99.326  | ug/l 100  |
| 37) Trichloroethene           | 7.20 | 130 | 626111  | 101.839 | ug/l 96   |
| 38) Methylcyclohexane         | 7.46 | 83  | 911244  | 99.657  | ug/l 98   |
| 39) 1,2-Dichloropropane       | 7.51 | 63  | 605636  | 102.268 | ug/l 93   |
| 40) Dibromomethane            | 7.65 | 93  | 383113  | 98.045  | ug/l 98   |

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 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC100

Quant Time: Dec 13 01:22:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Dec 13 01:15:47 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 41) Bromodichloromethane       | 7.89  | 83   | 777219   | 102.678  | ug/l  | 99       |
| 42) Vinyl Acetate              | 3.80  | 43   | 7948961  | 508.826  | ug/l  | 100      |
| 43) Ethyl Acetate              | 4.82  | 43   | 846643   | 95.321   | ug/l  | 99       |
| 44) Isopropyl Acetate          | 6.44  | 43   | 1419760  | 98.565   | ug/l  | 99       |
| 45) 1,4-Dioxane                | 7.73  | 88   | 265953   | 1695.576 | ug/l  | 98       |
| 46) Methyl methacrylate        | 7.76  | 41   | 715759   | 99.768   | ug/l  | 99       |
| 47) n-amyl Acetate             | 10.89 | 43   | 1344292  | 105.690  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene      | 9.04  | 75   | 880589   | 103.997  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene    | 8.43  | 75   | 965264   | 103.655  | ug/l  | 98       |
| 50) 1,1,2-Trichloroethane      | 9.21  | 97   | 591529   | 101.726  | ug/l  | 100      |
| 51) Ethyl methacrylate         | 9.17  | 69   | 996910   | 104.422  | ug/l  | 98       |
| 52) 1,3-Dichloropropane        | 9.37  | 76   | 1002486  | 100.759  | ug/l  | 99       |
| 53) Dibromochloromethane       | 9.58  | 129  | 639157   | 104.896  | ug/l  | 98       |
| 54) 1,2-Dibromoethane          | 9.67  | 107  | 621203   | 100.877  | ug/l  | 97       |
| 55) 2-Chloroethyl vinyl ether  | 8.31  | 63   | 2079793  | 509.071  | ug/l  | 99       |
| 56) Bromoform                  | 10.86 | 173  | 511318   | 105.844  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone       | 8.64  | 43   | 4407077  | 470.064  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 3366865  | 458.836  | ug/l  | 99       |
| 61) Tetrachloroethene          | 9.33  | 164  | 590448   | 103.341  | ug/l  | 97       |
| 62) Toluene                    | 8.78  | 91   | 2486519  | 98.302   | ug/l  | 99       |
| 64) Chlorobenzene              | 10.14 | 112  | 1571844  | 98.866   | ug/l  | 96       |
| 65) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 593594   | 100.470  | ug/l  | 100      |
| 66) Ethyl Benzene              | 10.25 | 91   | 2799807  | 100.636  | ug/l  | 98       |
| 67) m/p-Xylenes                | 10.36 | 106  | 2151051  | 200.249  | ug/l  | 98       |
| 68) o-Xylene                   | 10.70 | 106  | 1058857  | 101.618  | ug/l  | 99       |
| 69) Styrene                    | 10.71 | 104  | 1832137  | 103.613  | ug/l  | 99       |
| 70) Isopropylbenzene           | 11.01 | 105  | 2735416  | 100.340  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 958439   | 98.275   | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane     | 11.29 | 75   | 1079610  | 127.882  | ug/l  | 91       |
| 73) Bromobenzene               | 11.25 | 156  | 727816   | 100.877  | ug/l  | 100      |
| 74) n-propylbenzene            | 11.35 | 91   | 3143140  | 101.450  | ug/l  | 98       |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 1869191  | 101.016  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 2344636  | 102.094  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene    | 11.07 | 75   | 317765   | 98.597   | ug/l  | 88       |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 2173424  | 102.462  | ug/l  | 98       |
| 79) tert-butylbenzene          | 11.77 | 119  | 2324797  | 101.184  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 2357693  | 102.824  | ug/l  | 99       |
| 81) sec-Butylbenzene           | 11.94 | 105  | 2701293  | 102.242  | ug/l  | 99       |
| 82) p-Isopropyltoluene         | 12.06 | 119  | 2482136  | 102.508  | ug/l  | 100      |
| 83) 1,3-Dichlorobenzene        | 12.02 | 146  | 1298304  | 102.482  | ug/l  | 100      |
| 84) 1,4-Dichlorobenzene        | 12.09 | 146  | 1294976  | 102.844  | ug/l  | 100      |
| 85) n-Butylbenzene             | 12.39 | 91   | 2166389  | 104.366  | ug/l  | 99       |
| 86) Hexachloroethane           | 12.59 | 117  | 468034   | 105.892  | ug/l  | 97       |
| 87) 1,2-Dichlorobenzene        | 12.39 | 146  | 1304408  | 103.041  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 204513   | 95.023   | ug/l  | 96       |
| 89) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 898051   | 104.513  | ug/l  | 100      |
| 90) Hexachlorobutadiene        | 13.78 | 225  | 402404   | 97.297   | ug/l  | 98       |
| 91) Naphthalene                | 13.83 | 128  | 2723544  | 101.157  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 892994   | 103.058  | ug/l  | 98       |

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Sample : VSTDICC100  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

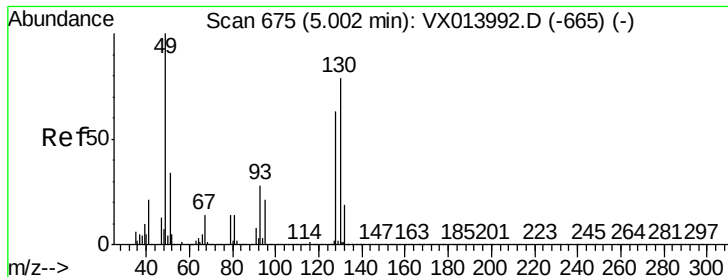
Quant Time: Dec 13 01:22:10 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Dec 13 01:15:47 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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



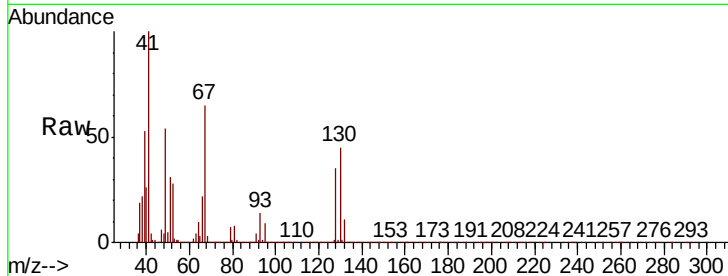


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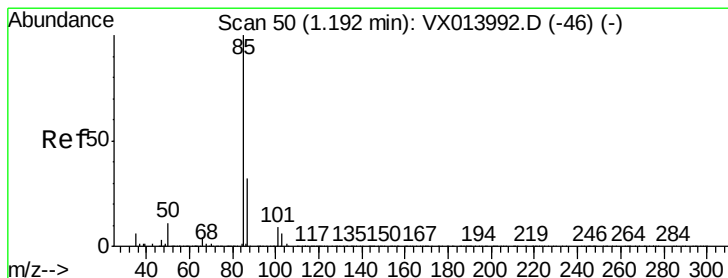
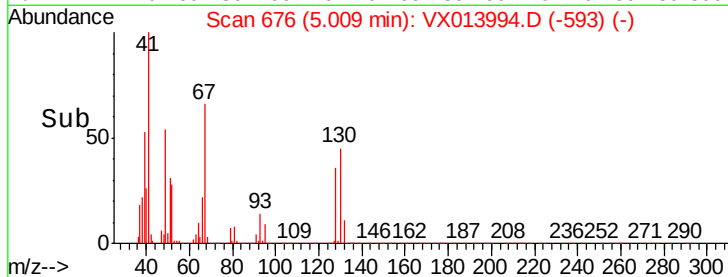
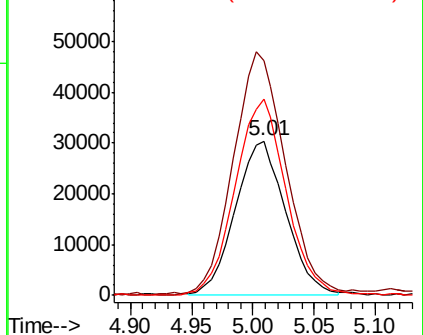
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 5.01 min Scan# 676  
Delta R.T. 0.01 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

Tot Ion:128 Resp: 86731  
Ion Ratio Lower Upper  
128 100  
49 160.8 0.0 405.0  
130 128.2 0.0 321.5



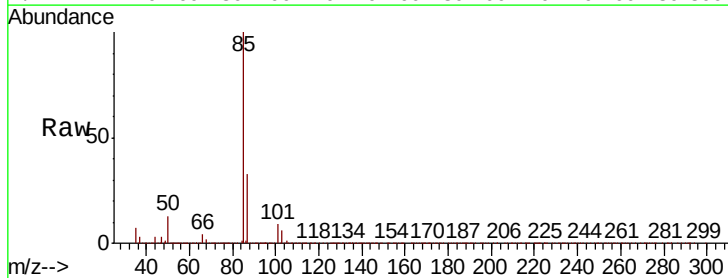
Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VX0  
Ion 130.00 (129.70 to 130.70): V



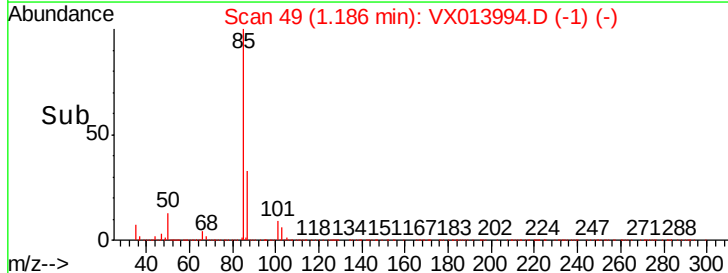
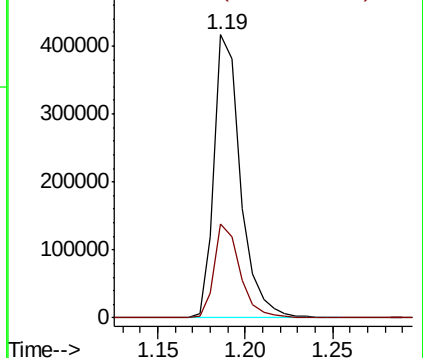
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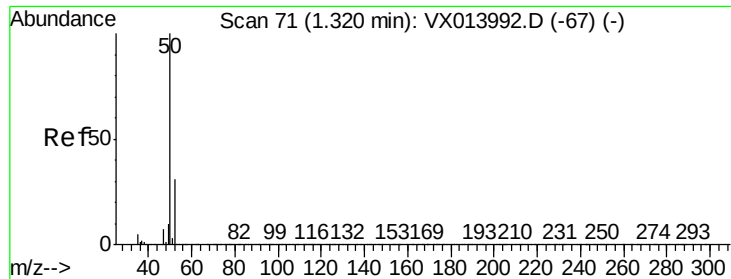
Dichlorodifluoromethane  
Concen: 72.001 ug/l  
RT: 1.19 min Scan# 49  
Delta R.T. -0.01 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 85 Resp: 438938  
Ion Ratio Lower Upper  
85 100  
87 33.0 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VX0  
Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 88.307 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

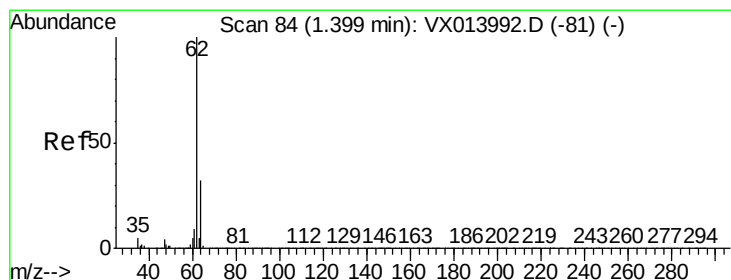
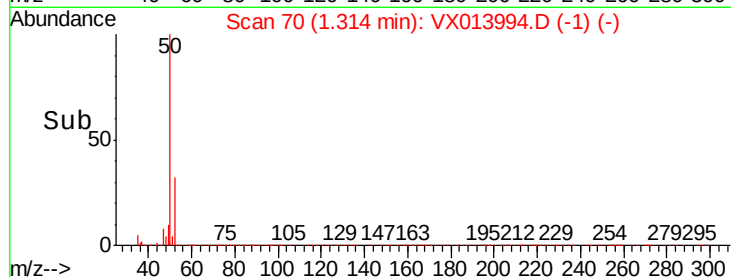
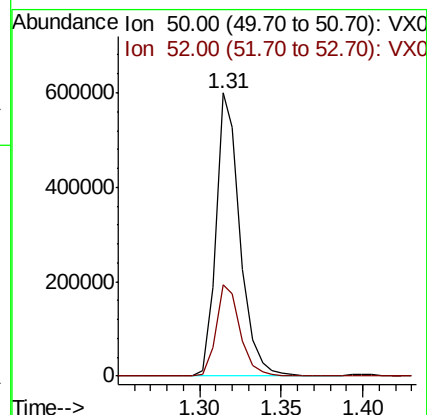
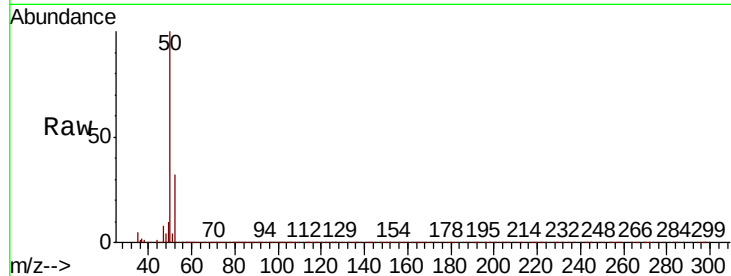
VSTDIC100

Tot Ion: 50 Resp: 615401

Ion Ratio Lower Upper

50 100

52 32.3 24.3 36.5



#4

Vinyl Chloride

Concen: 84.369 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013994.D

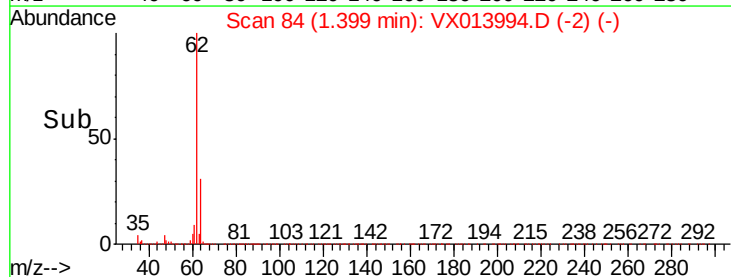
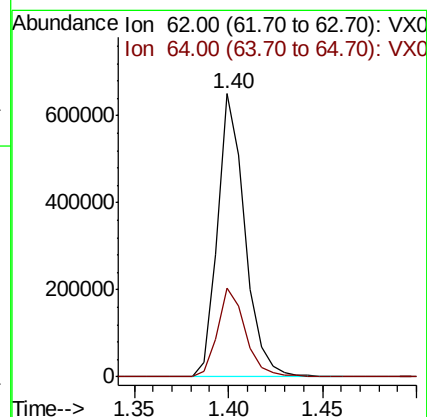
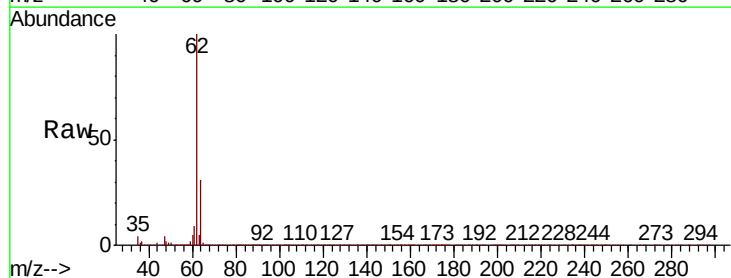
Acq: 13 Dec 2019 00:07

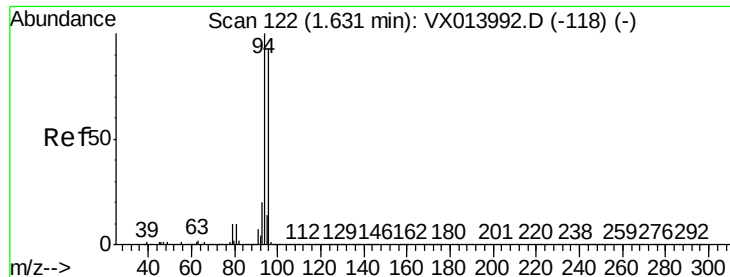
Tgt Ion: 62 Resp: 653508

Ion Ratio Lower Upper

62 100

64 31.3 25.2 37.8





#5

Bromomethane

Concen: 92.201 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.01 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

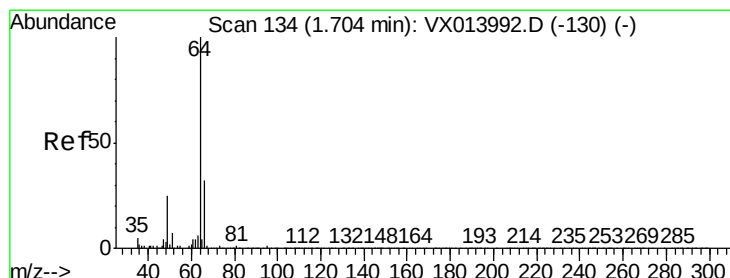
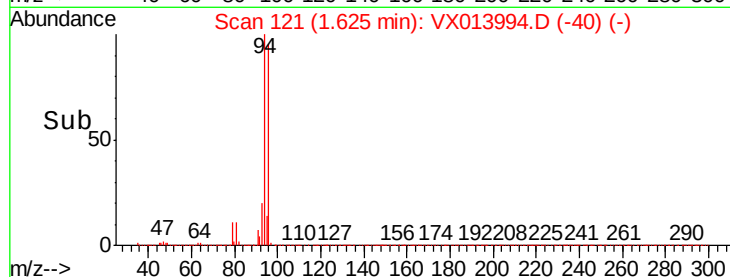
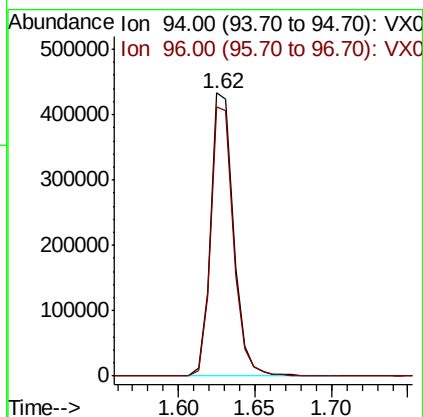
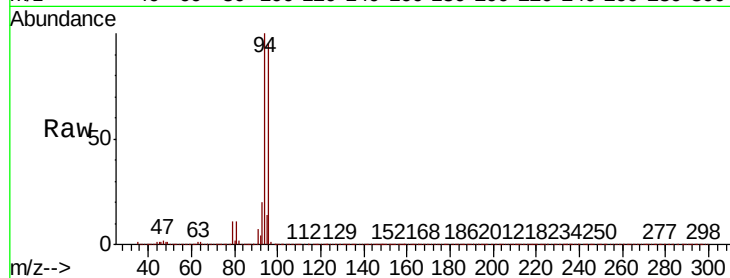
VSTDIC100

Tot Ion: 94 Resp: 451842

Ion Ratio Lower Upper

94 100

96 95.3 74.4 111.6



#6

Chloroethane

Concen: 91.580 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX013994.D

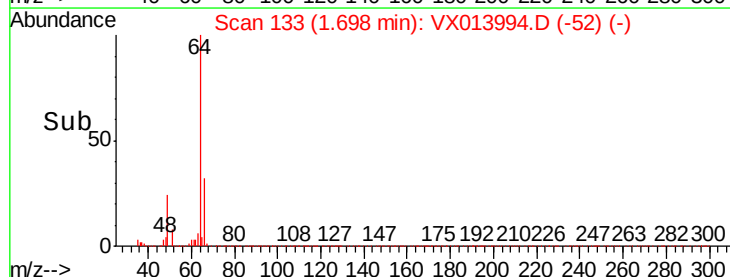
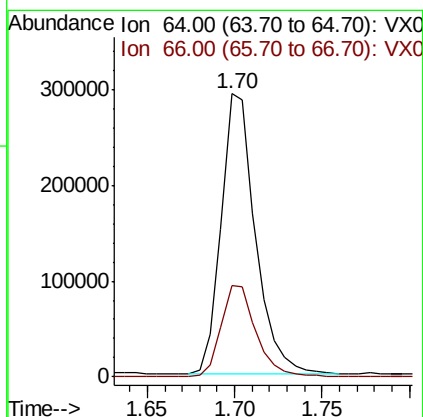
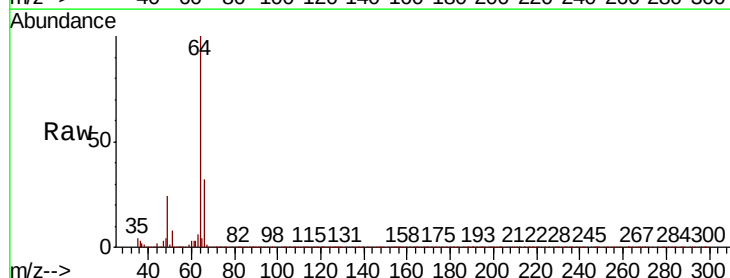
Acq: 13 Dec 2019 00:07

Tgt Ion: 64 Resp: 398449

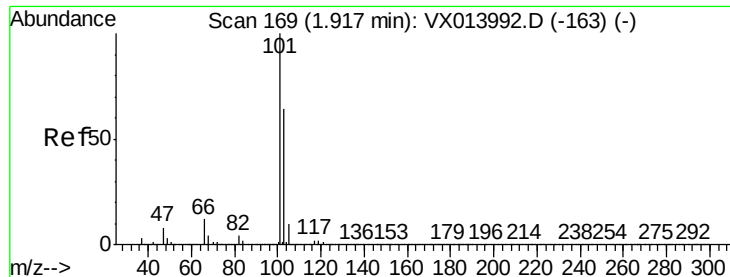
Ion Ratio Lower Upper

64 100

66 32.5 25.2 37.8





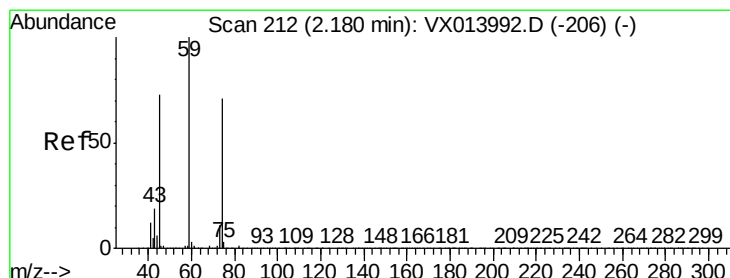
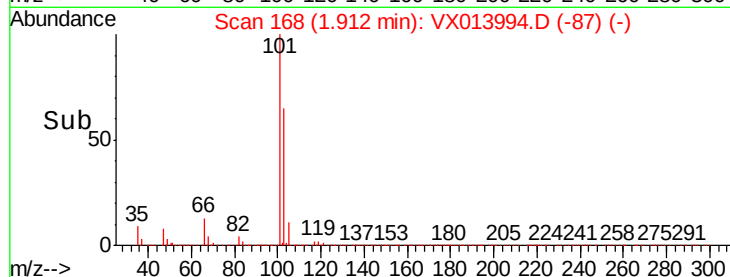
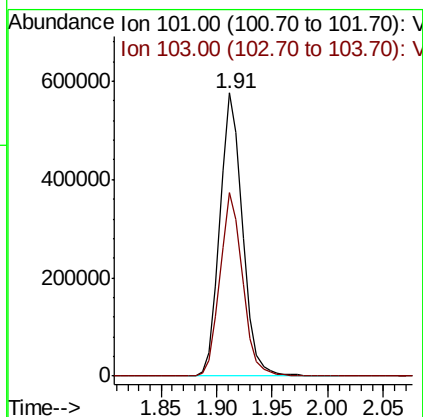
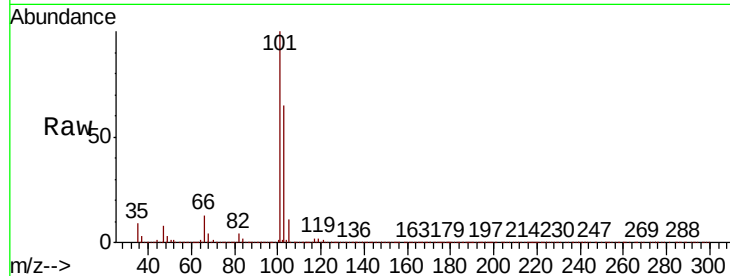


#7

Trichlorofluoromethane  
Concen: 94.192 ug/l  
RT: 1.91 min Scan# 168  
Delta R.T. -0.01 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

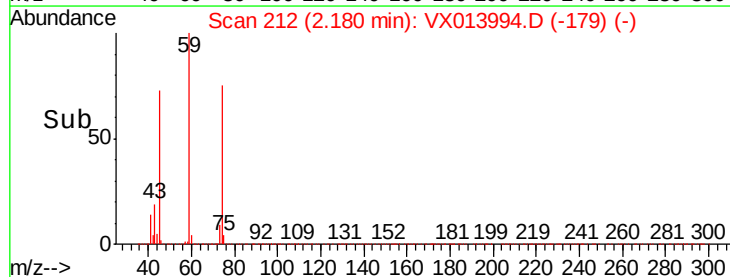
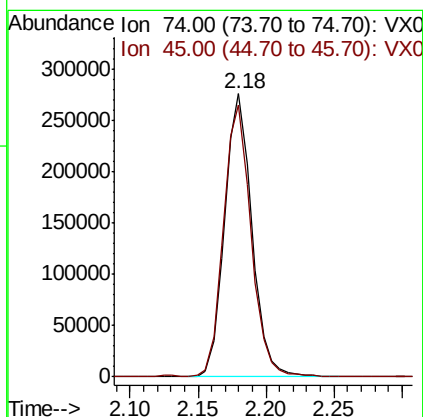
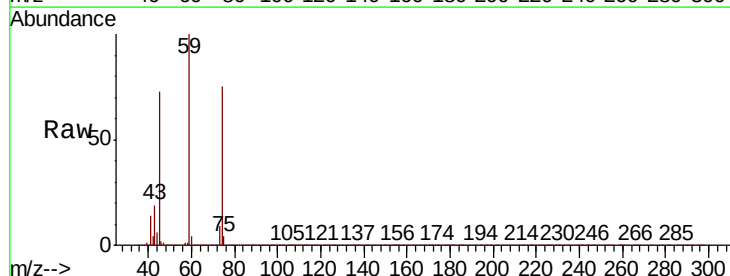
Tot Ion:101 Resp: 810433  
Ion Ratio Lower Upper  
101 100  
103 64.8 51.6 77.4



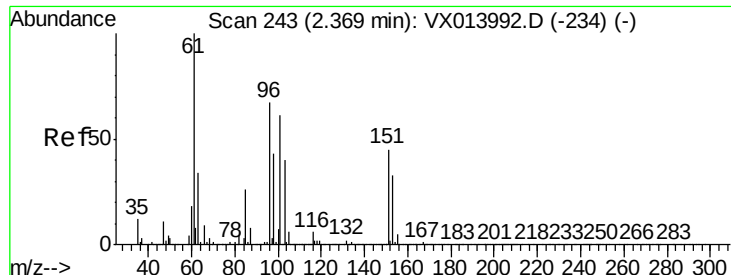
#8

Diethyl Ether  
Concen: 97.485 ug/l  
RT: 2.18 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 74 Resp: 383626  
Ion Ratio Lower Upper  
74 100  
45 97.1 20.6 185.0







#9

1,1,2-Trichlorotrifluoroethane

Concen: 93.687 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

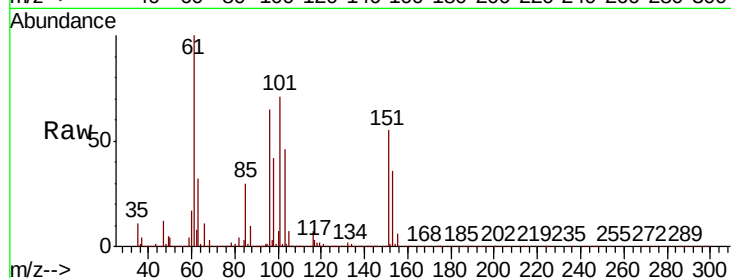
Tot Ion:101 Resp: 482135

Ion Ratio Lower Upper

101 100

85 41.4 0.0 85.6

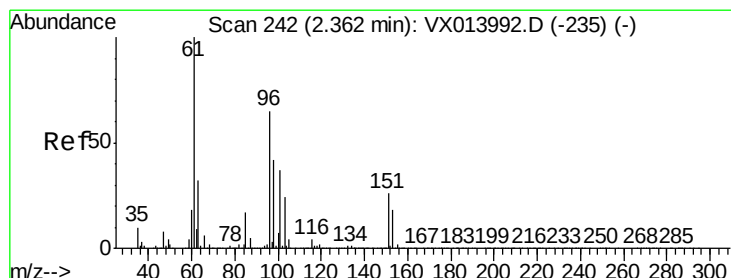
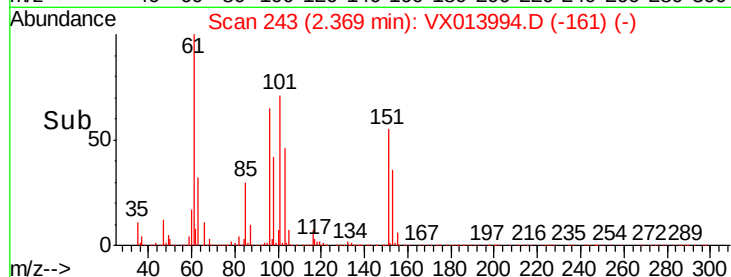
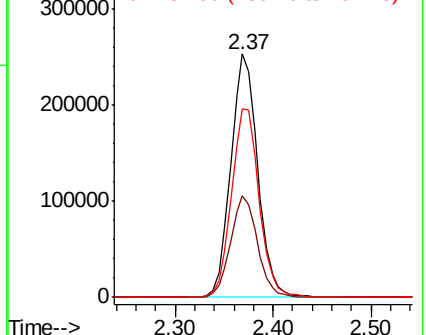
151 79.8 0.0 159.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 96.100 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

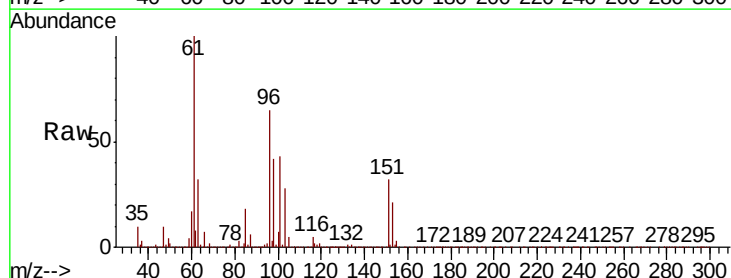
Tgt Ion: 96 Resp: 509896

Ion Ratio Lower Upper

96 100

61 155.0 123.0 184.6

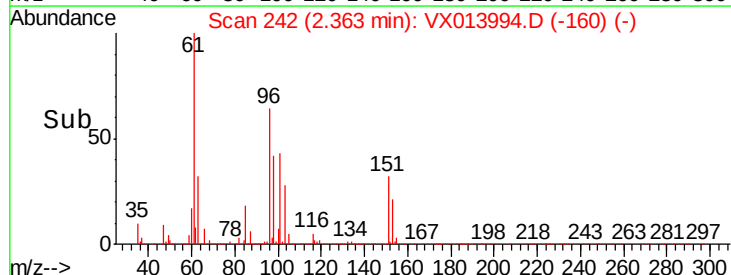
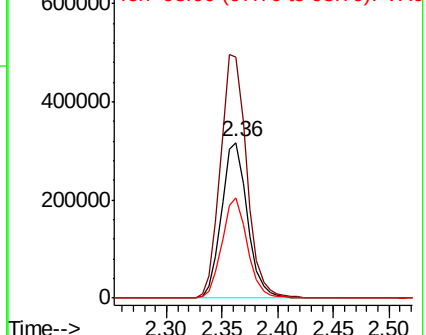
98 64.4 51.4 77.0

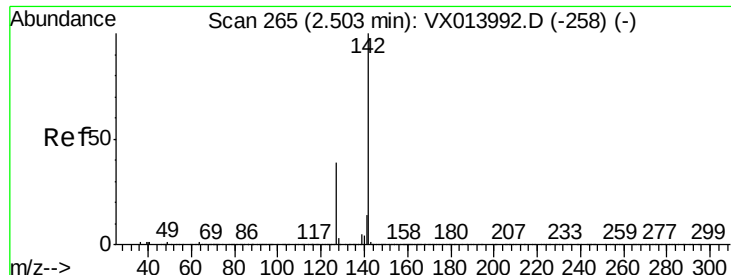


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

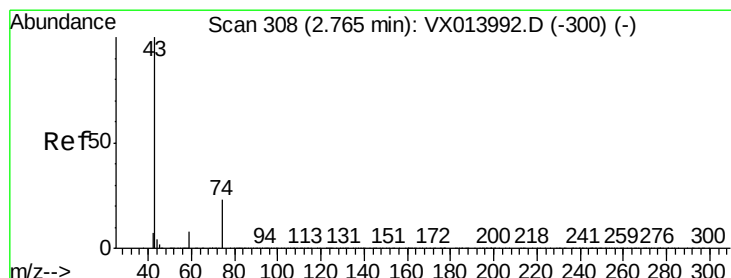
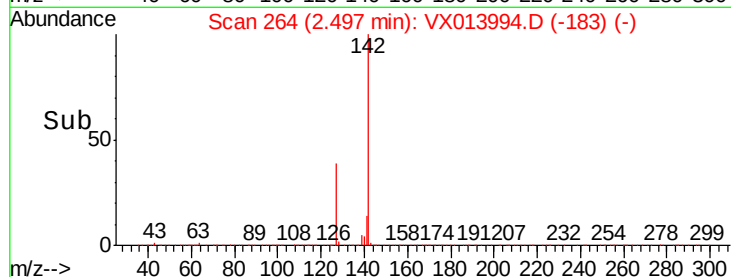
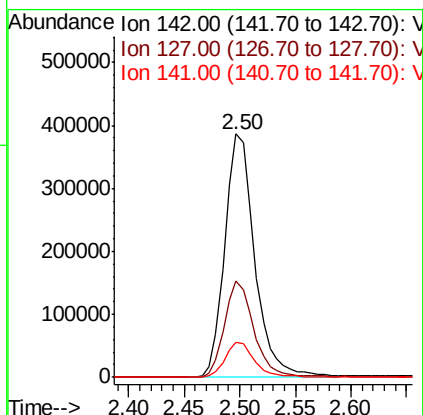
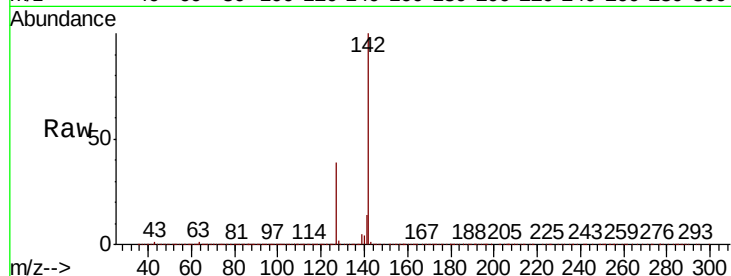




#11  
Methvl Iodide  
Concen: 109.780 ug/l  
RT: 2.50 min Scan# 264  
Delta R.T. -0.01 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

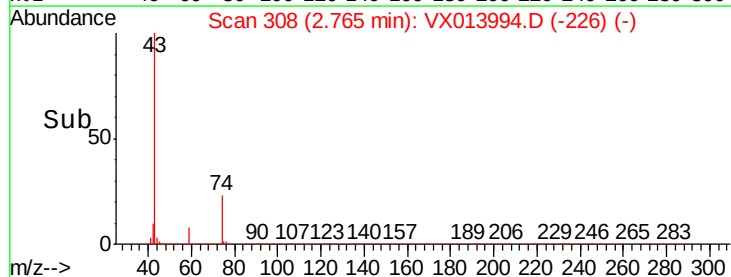
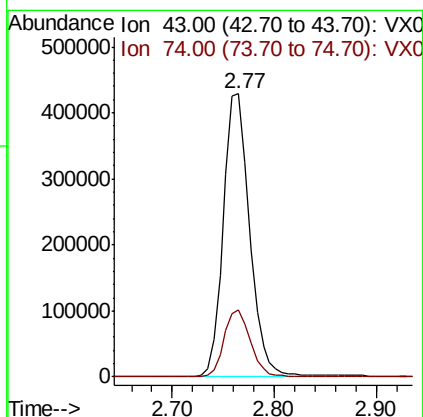
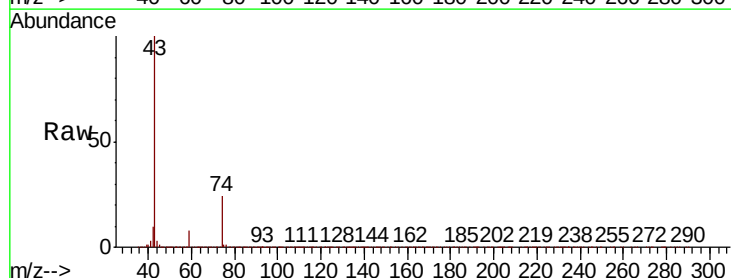
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

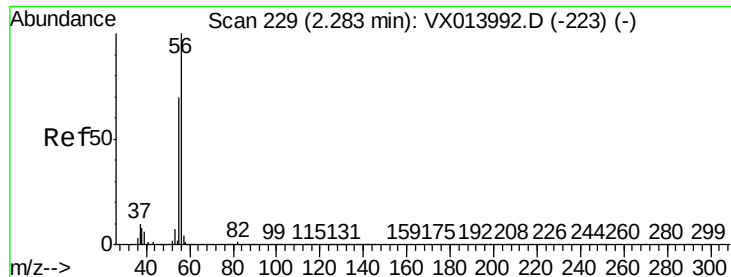
Tot Ion:142 Resp: 725412  
Ion Ratio Lower Upper  
142 100  
127 39.4 19.5 58.5  
141 14.2 7.0 20.9



#12  
Methyl Acetate  
Concen: 84.424 ug/l  
RT: 2.77 min Scan# 308  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 43 Resp: 770430  
Ion Ratio Lower Upper  
43 100  
74 23.4 18.5 27.7

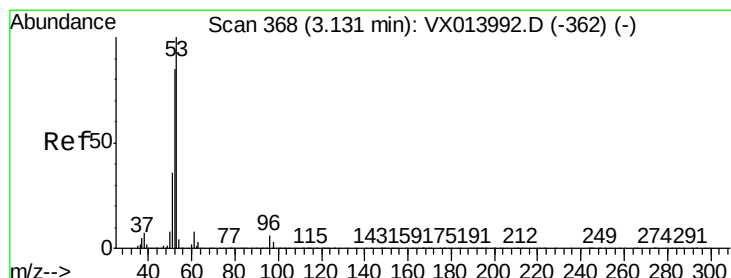
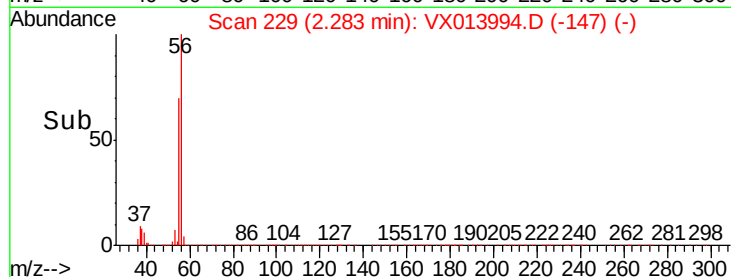
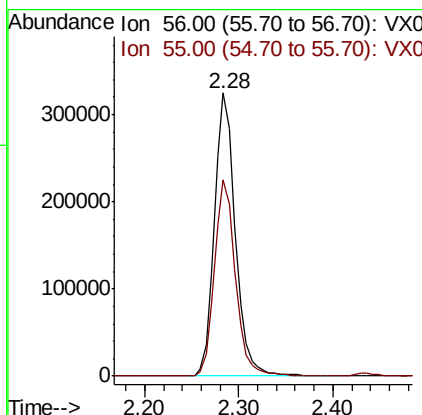
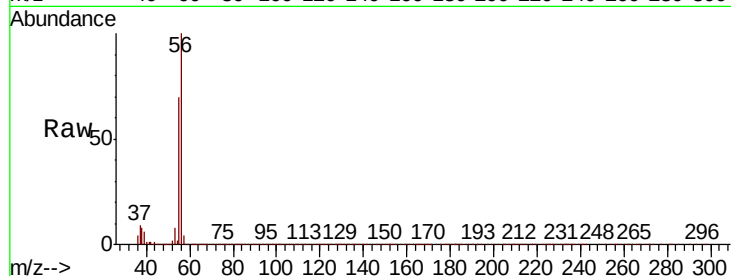




#13  
Acrolein  
Concen: 496.297 ug/l  
RT: 2.28 min Scan# 229  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

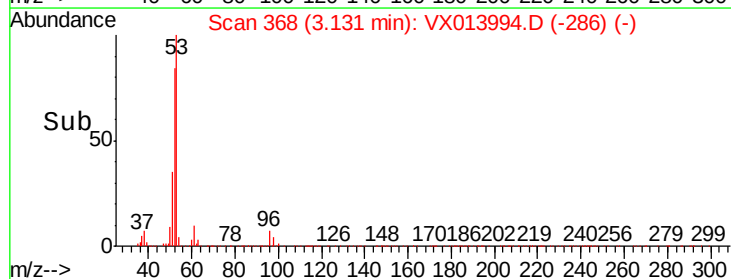
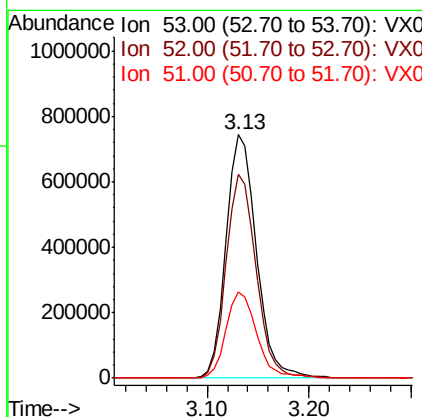
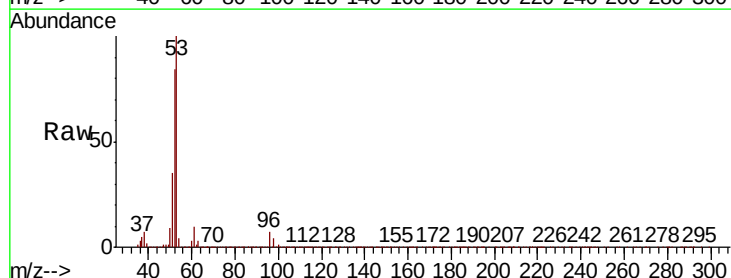
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

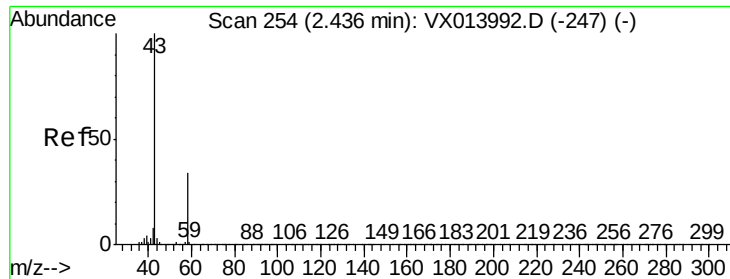
Tot Ion: 56 Resp: 498569  
Ion Ratio Lower Upper  
56 100  
55 69.7 54.9 82.3



#14  
Acrylonitrile  
Concen: 452.834 ug/l  
RT: 3.13 min Scan# 368  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 53 Resp: 1531991  
Ion Ratio Lower Upper  
53 100  
52 82.8 41.5 124.6  
51 35.7 17.8 53.5

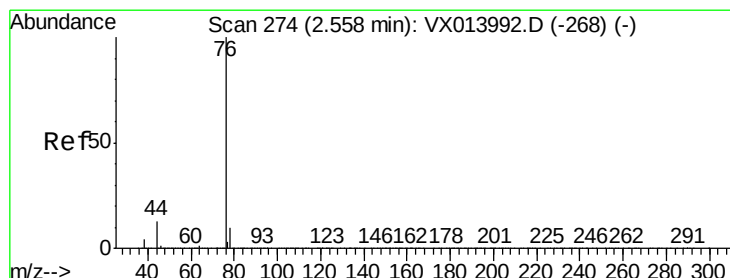
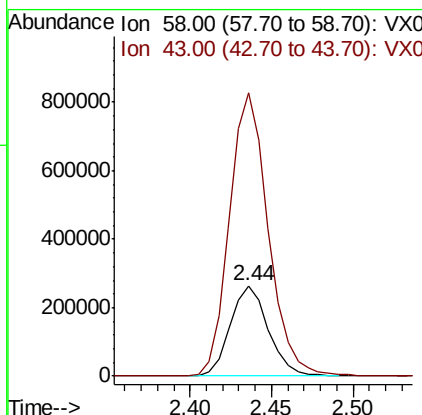
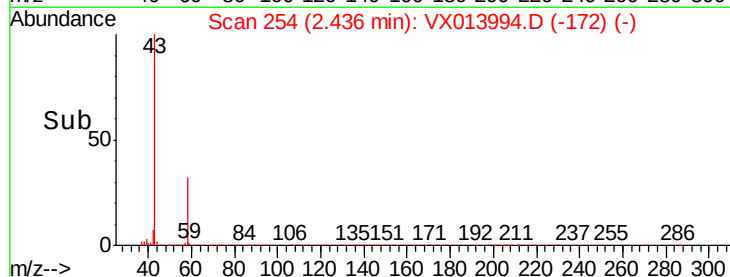
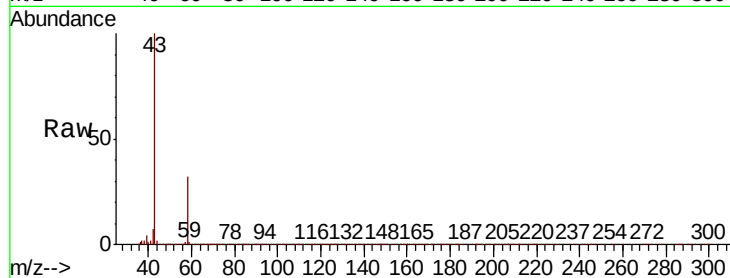




#15  
Acetone  
Concen: 433.689 ug/l  
RT: 2.44 min Scan# 254  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

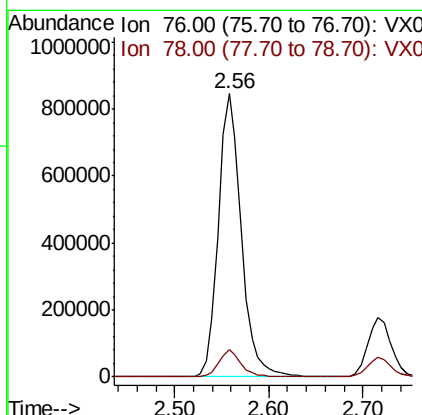
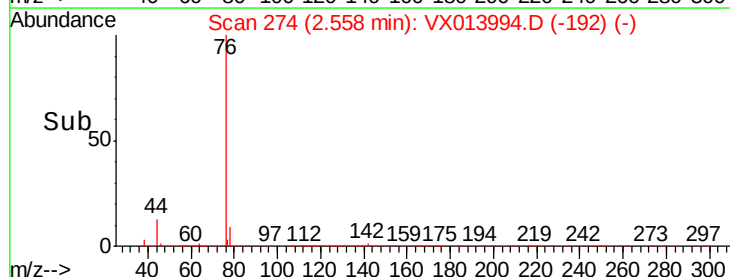
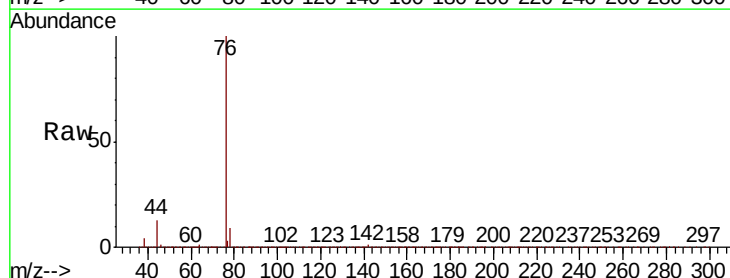
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

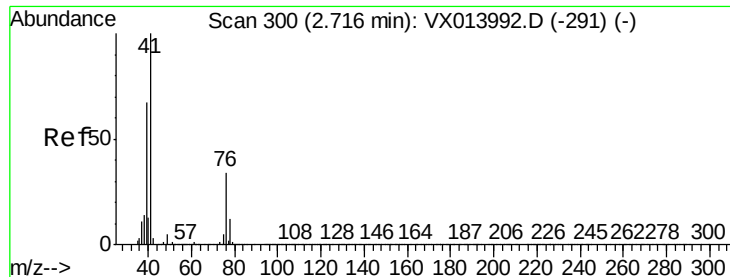
Tot Ion: 58 Resp: 429292  
Ion Ratio Lower Upper  
58 100  
43 313.9 236.3 354.5



#16  
Carbon Disulfide  
Concen: 96.914 ug/l  
RT: 2.56 min Scan# 274  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 76 Resp: 1424818  
Ion Ratio Lower Upper  
76 100  
78 9.4 7.8 11.8

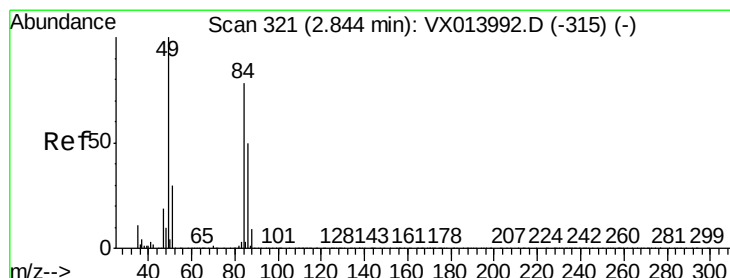
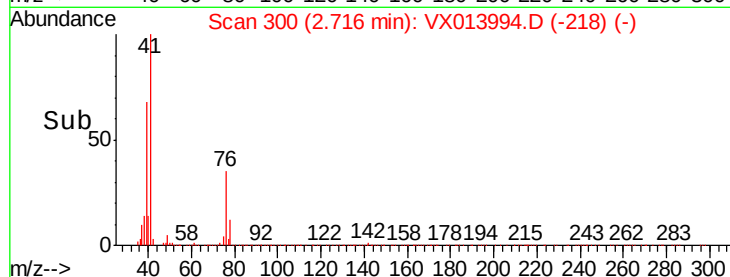
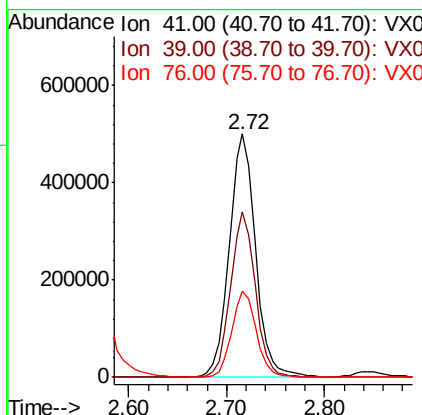
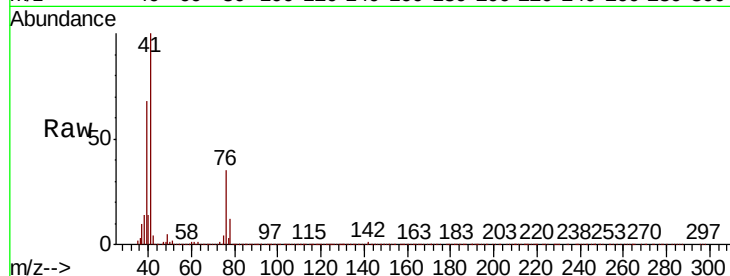




#17  
Allvl chloride  
Concen: 95.723 ug/l  
RT: 2.72 min Scan# 300  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

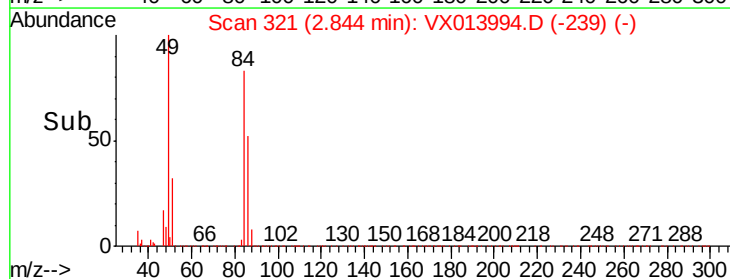
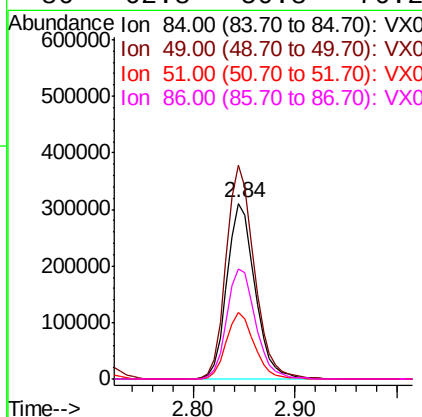
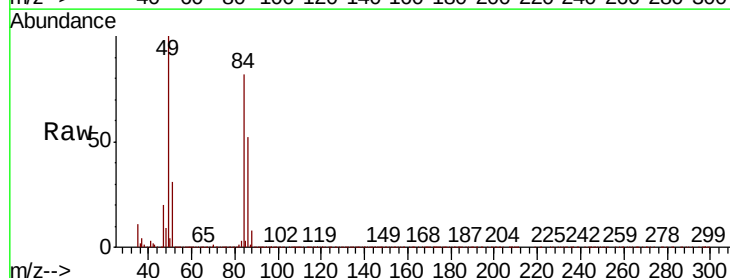
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

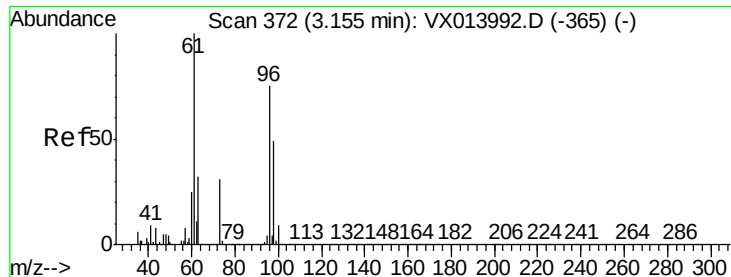
Tot Ion: 41 Resp: 932183  
Ion Ratio Lower Upper  
41 100  
39 68.1 33.4 100.2  
76 35.2 17.0 50.9



#18  
Methylene Chloride  
Concen: 96.287 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 84 Resp: 590938  
Ion Ratio Lower Upper  
84 100  
49 121.6 102.2 153.2  
51 38.0 31.4 47.0  
86 62.8 50.8 76.2





#19

trans-1,2-Dichloroethene

Concen: 97.178 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

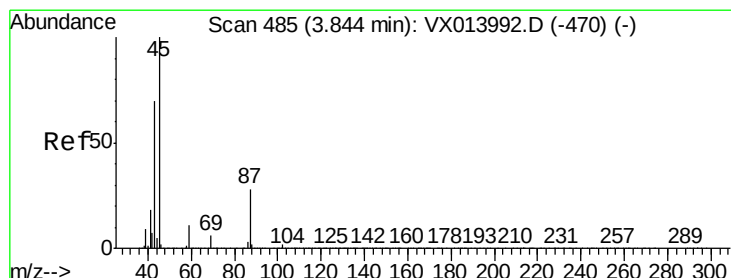
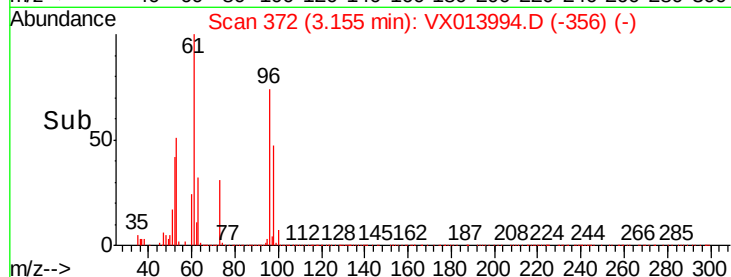
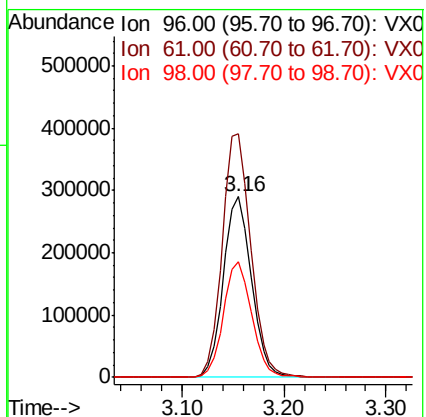
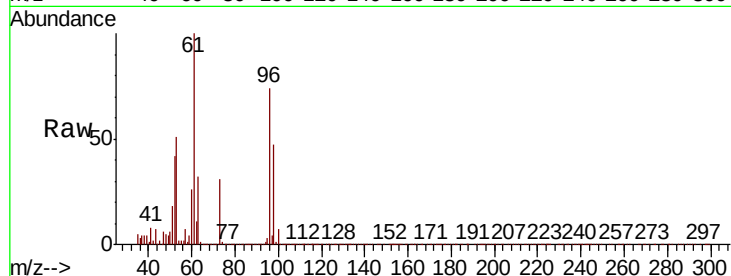
Tot Ion: 96 Resp: 554169

Ion Ratio Lower Upper

96 100

61 134.8 106.6 159.8

98 63.8 51.6 77.4



#20

Diisopropyl ether

Concen: 98.548 ug/l

RT: 3.84 min Scan# 485

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Tgt Ion: 45 Resp: 1874669

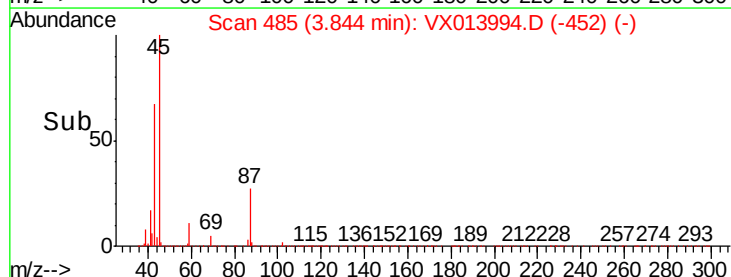
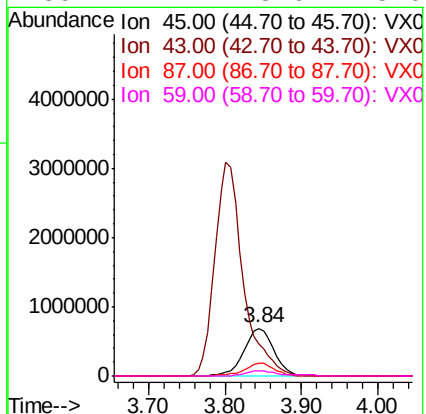
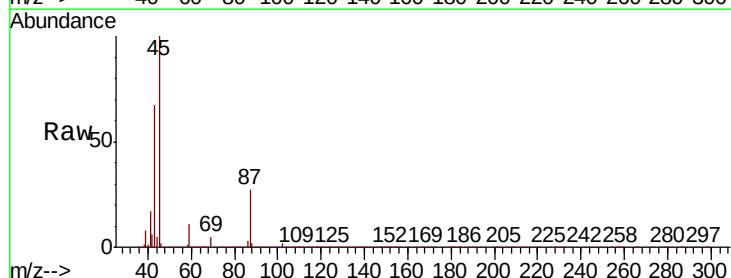
Ion Ratio Lower Upper

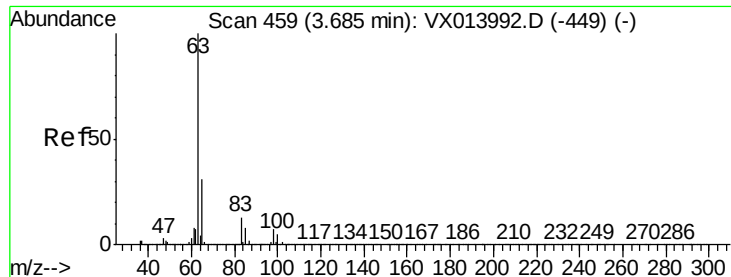
45 100

43 66.1 55.9 83.9

87 27.2 22.2 33.2

59 11.1 8.6 13.0





#21

1,1-Dichloroethane

Concen: 97.980 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampled :

VSTDIC100

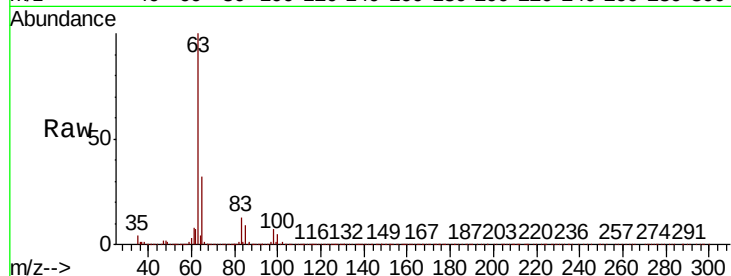
Tot Ion: 63 Resp: 1012283

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 7.2   | 3.4   | 10.1  |
| 100 | 4.7   | 2.5   | 7.4   |

63 100

98 7.2 3.4 10.1

100 4.7 2.5 7.4



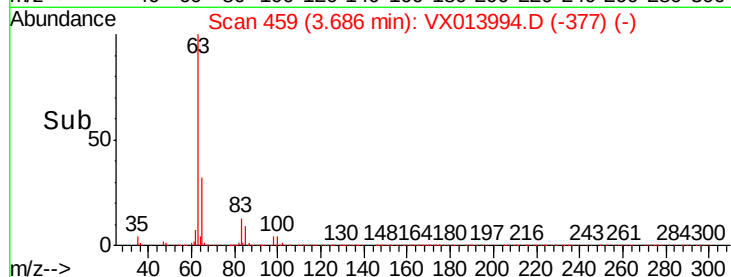
Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

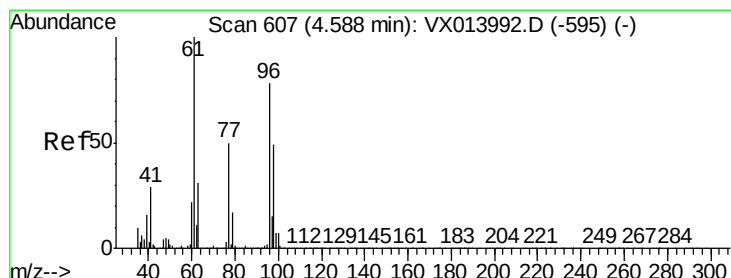
Ion 100.00 (99.70 to 100.70): VX0

3.69

Time-->



Time-->



#22

cis-1,2-Dichloroethene

Concen: 97.782 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

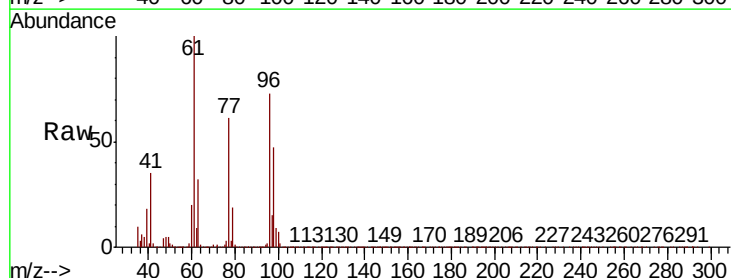
Tgt Ion: 96 Resp: 638605

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 140.3 | 112.4 | 168.6 |
| 98  | 64.2  | 50.3  | 75.5  |

96 100

61 140.3 112.4 168.6

98 64.2 50.3 75.5



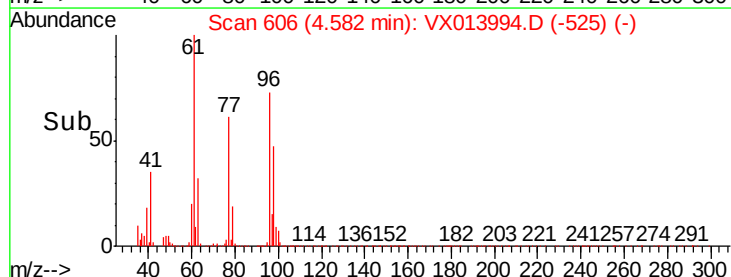
Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

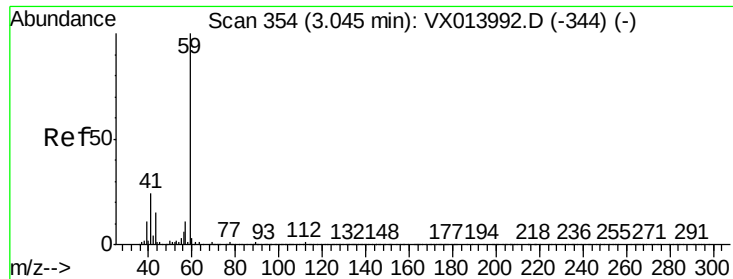
4.58

Time-->



Time-->



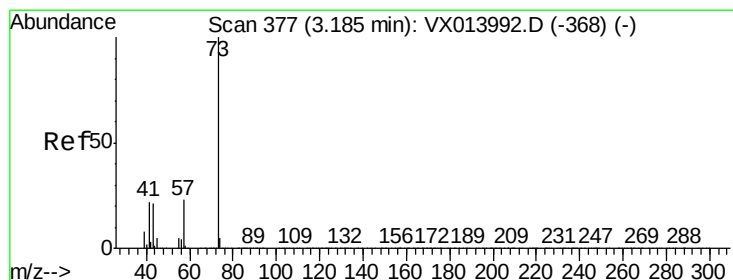
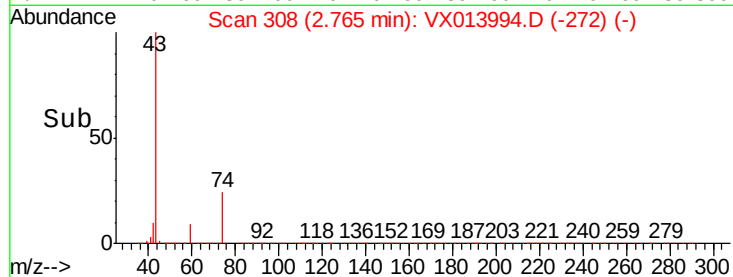
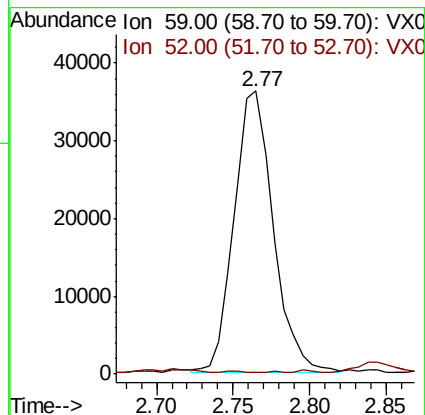
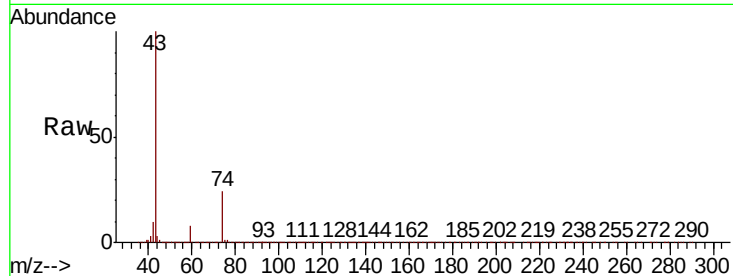


#23

tert-Butyl Alcohol  
Concen: 40.353 ug/l  
RT: 2.77 min Scan# 308  
Delta R.T. -0.28 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

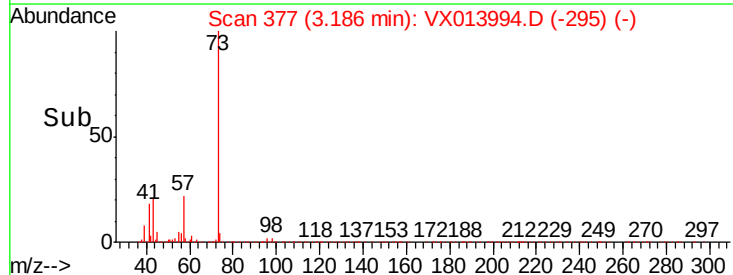
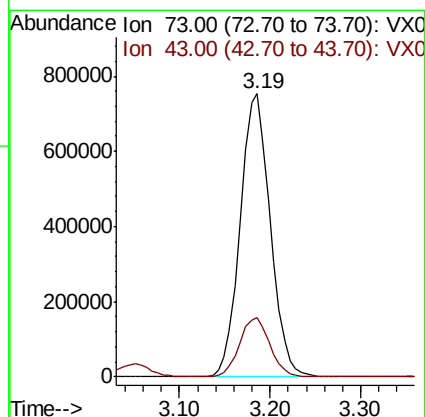
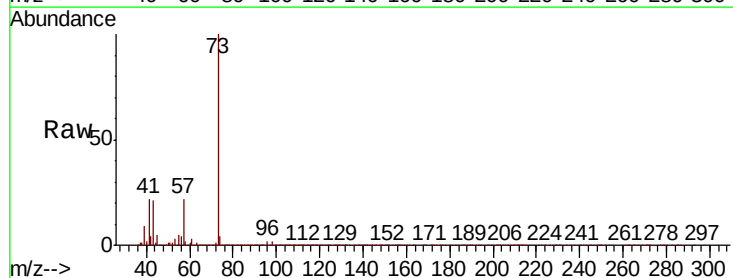
Tot Ion: 59 Resp: 64426  
Ion Ratio Lower Upper  
59 100  
52 0.2 0.2 0.2

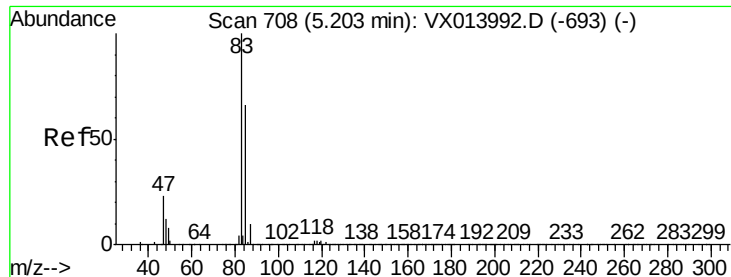


#24

Methyl tert-Butyl Ether  
Concen: 97.939 ug/l  
RT: 3.19 min Scan# 377  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 73 Resp: 1729862  
Ion Ratio Lower Upper  
73 100  
43 21.1 16.6 25.0





#25

Chloroform

Concen: 96.716 ug/l

RT: 5.20 min Scan# 707

Delta R.T. -0.01 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

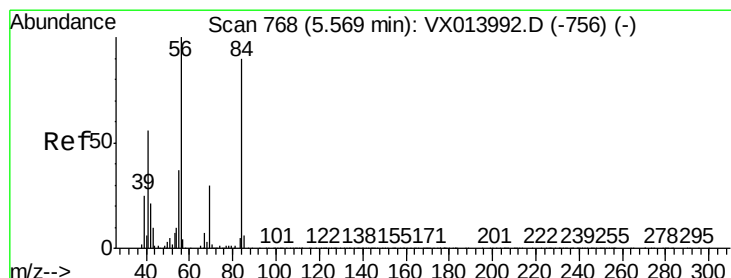
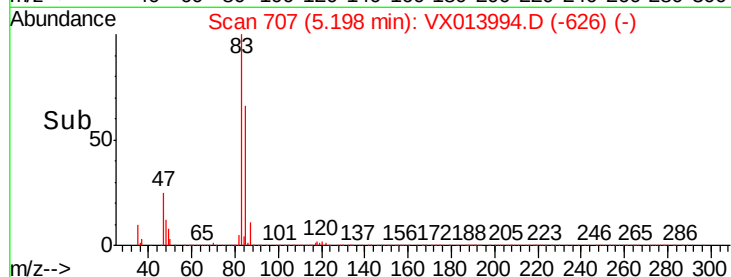
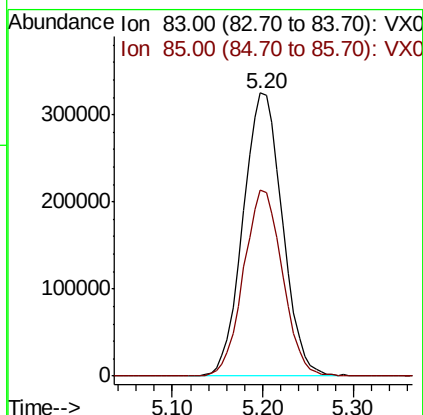
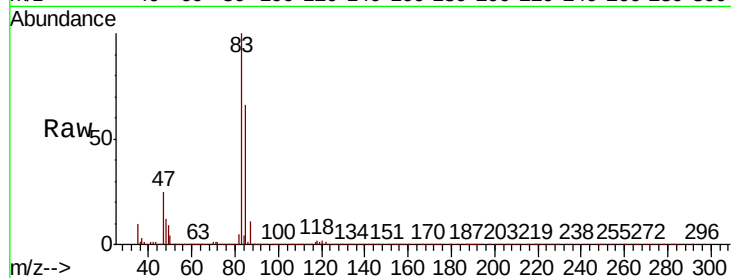
VSTDIC100

Tot Ion: 83 Resp: 974916

Ion Ratio Lower Upper

83 100

85 65.6 52.7 79.1



#26

Cyclohexane

Concen: 97.418 ug/l

RT: 5.57 min Scan# 768

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

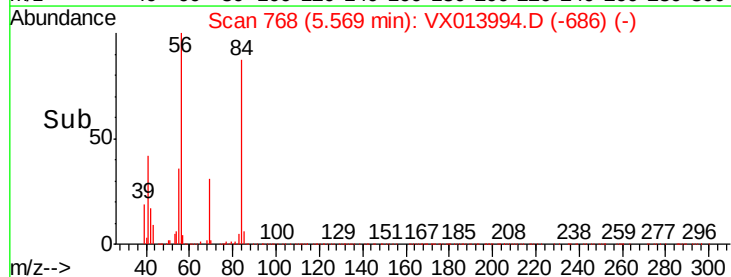
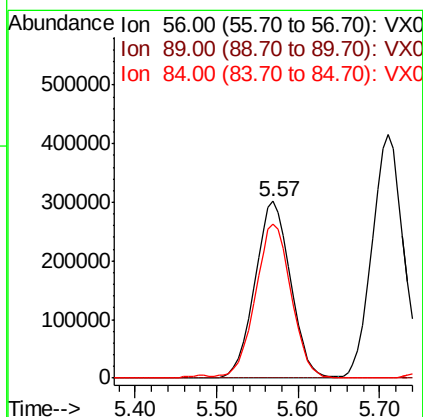
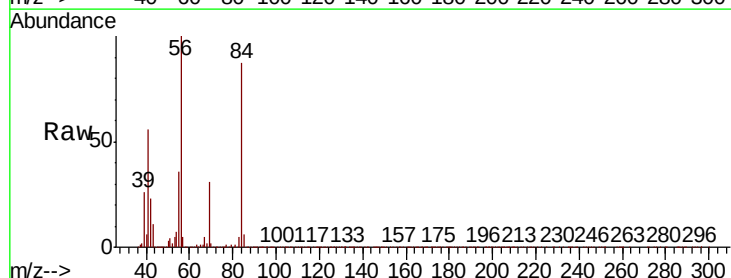
Tgt Ion: 56 Resp: 914639

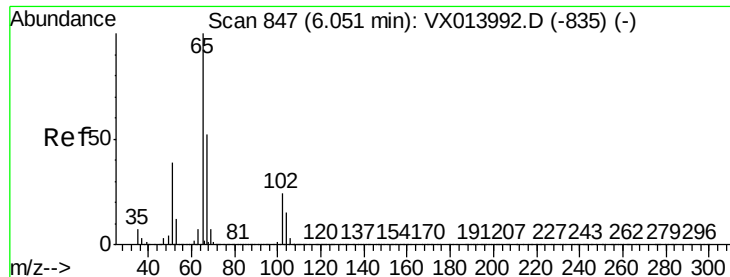
Ion Ratio Lower Upper

56 100

89 0.0 0.1 0.1#

84 87.6 70.8 106.2





#27

1,2-Dichloroethane-d4

Concen: 29.571 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

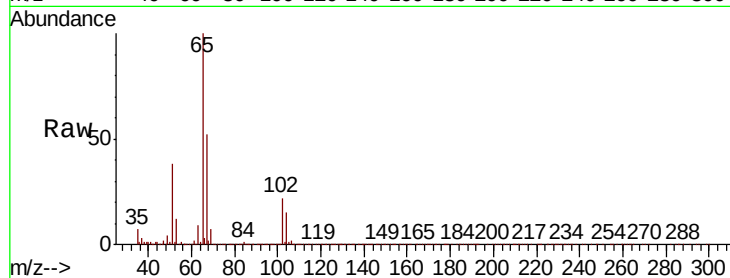
VSTDIC100

Tot Ion: 65 Resp: 189741

Ion Ratio Lower Upper

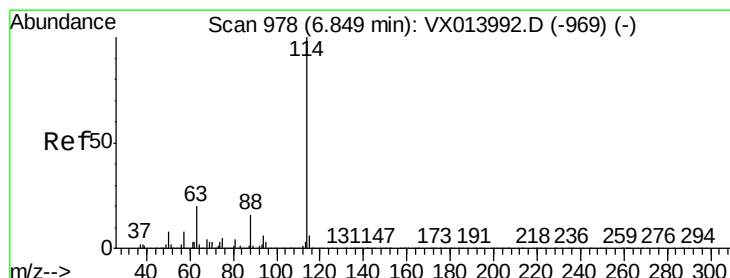
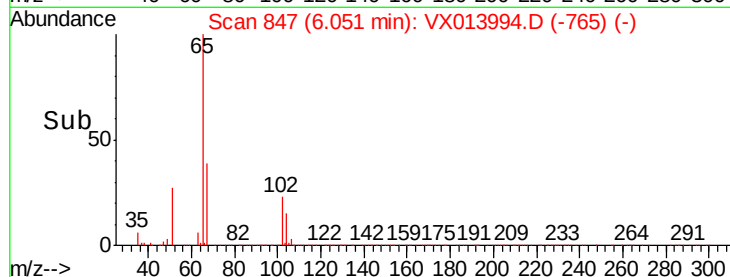
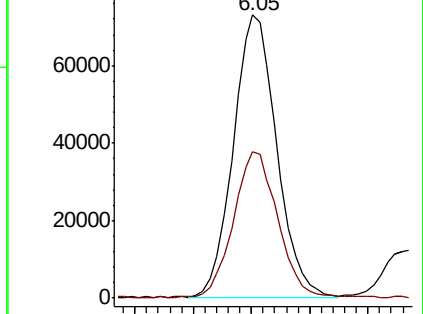
65 100

67 51.6 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

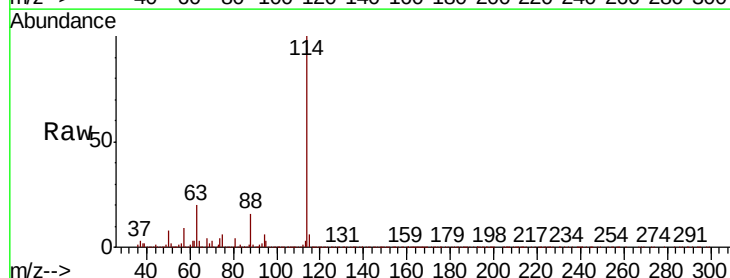
Tgt Ion: 114 Resp: 493742

Ion Ratio Lower Upper

114 100

63 19.6 16.1 24.1

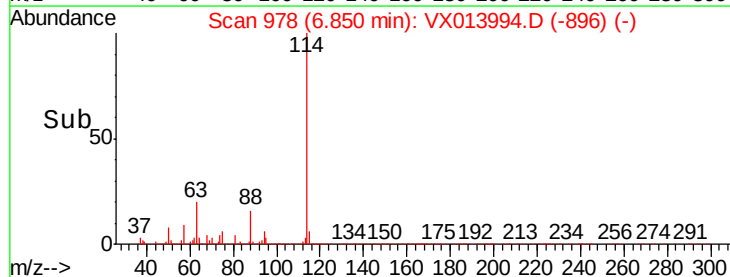
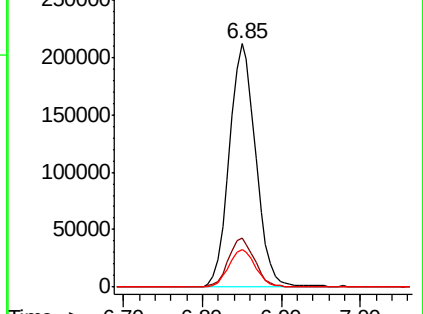
88 15.8 12.5 18.7

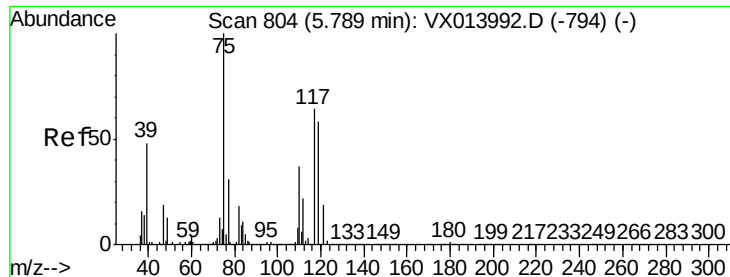


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#29

1,1-Dichloropropene

Concen: 99.067 ug/l

RT: 5.79 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

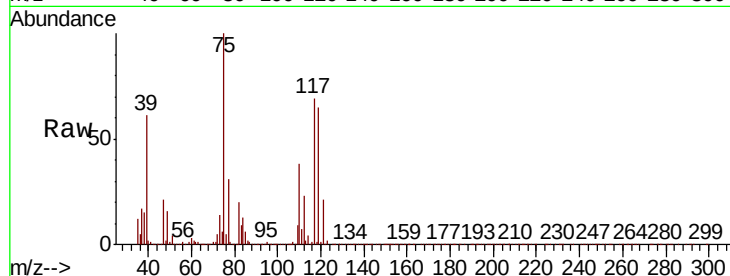
Tot Ion: 75 Resp: 744965

Ion Ratio Lower Upper

75 100

110 37.1 0.0 73.8

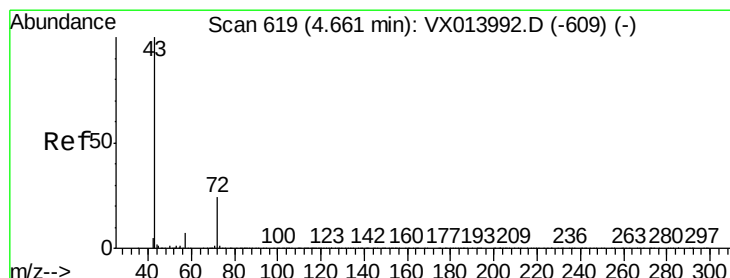
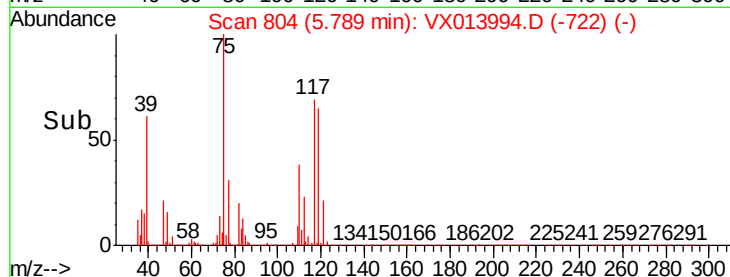
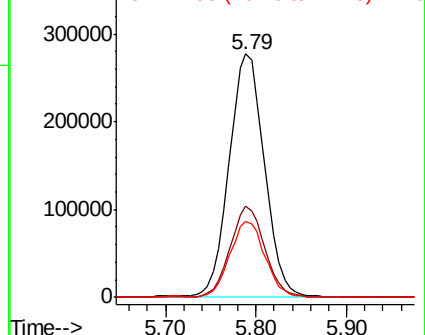
77 31.1 0.0 62.4



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 110.00 (109.70 to 110.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#30

2-Butanone

Concen: 450.646 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

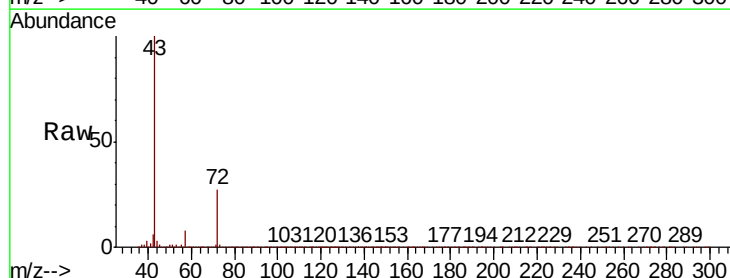
Tgt Ion: 43 Resp: 2160649

Ion Ratio Lower Upper

43 100

57 7.8 6.2 9.2

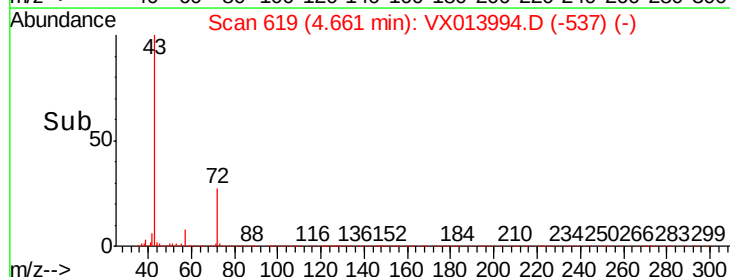
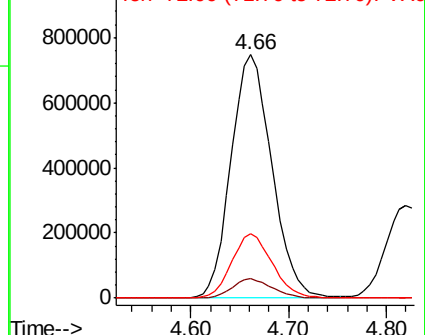
72 25.9 20.3 30.5

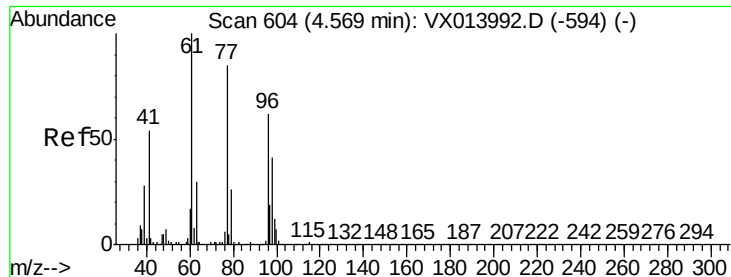


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

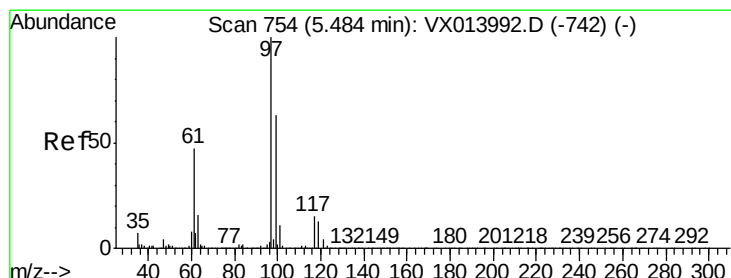
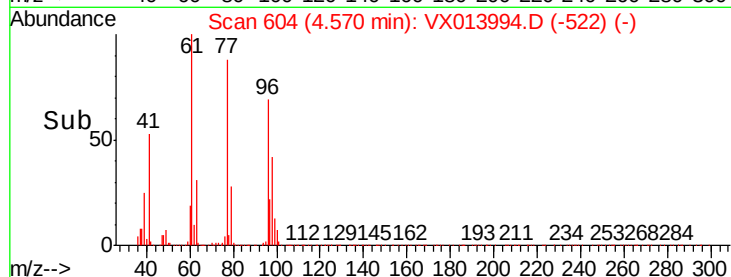
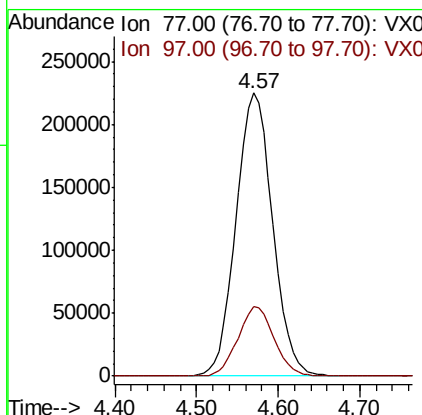
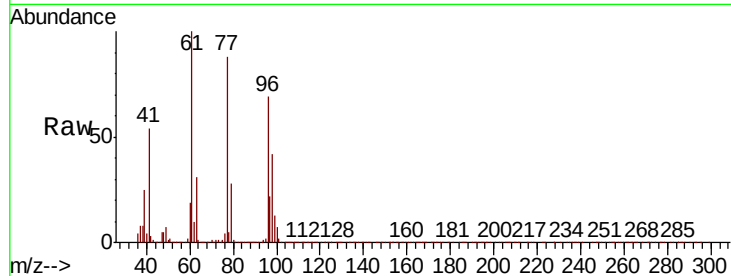




#31  
 2,2-Dichloropropane  
 Concen: 88.798 ug/l  
 RT: 4.57 min Scan# 604  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

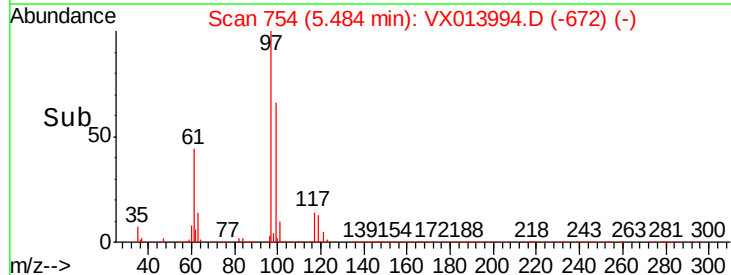
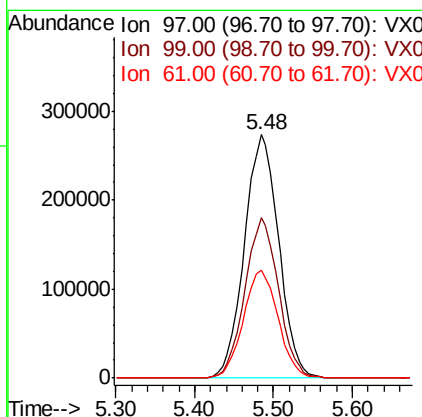
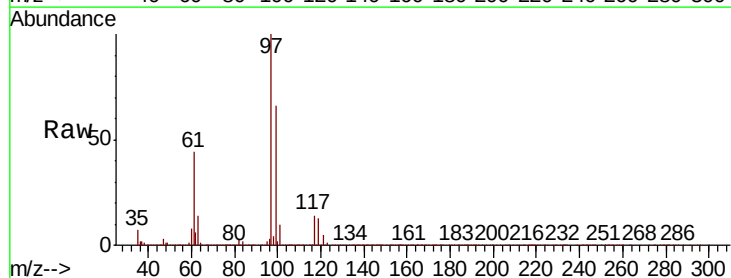
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

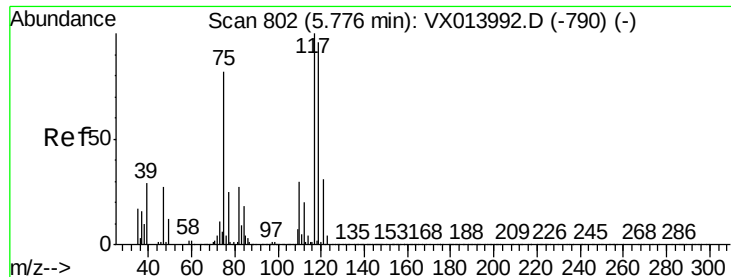
Tot Ion: 77 Resp: 699967  
 Ion Ratio Lower Upper  
 77 100  
 97 24.4 19.7 29.5



#32  
 1,1,1-Trichloroethane  
 Concen: 99.809 ug/l  
 RT: 5.48 min Scan# 754  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

Tgt Ion: 97 Resp: 828315  
 Ion Ratio Lower Upper  
 97 100  
 99 64.4 51.9 77.9  
 61 44.7 36.8 55.2





#33

Carbon Tetrachloride

Concen: 99.812 ug/l

RT: 5.78 min Scan# 802

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

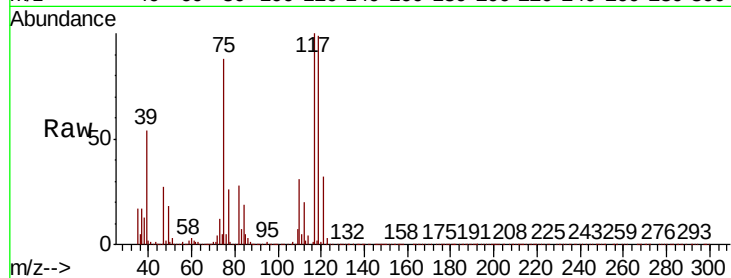
Tot Ion:117 Resp: 715913

Ion Ratio Lower Upper

117 100

119 99.0 77.2 115.8

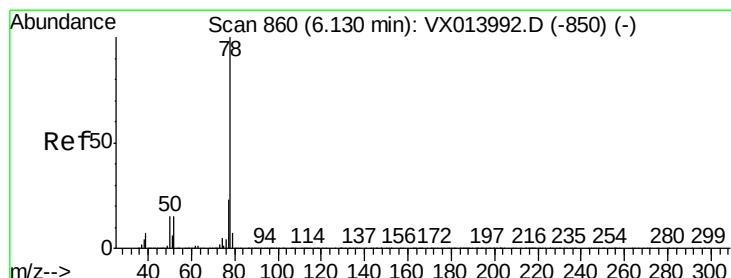
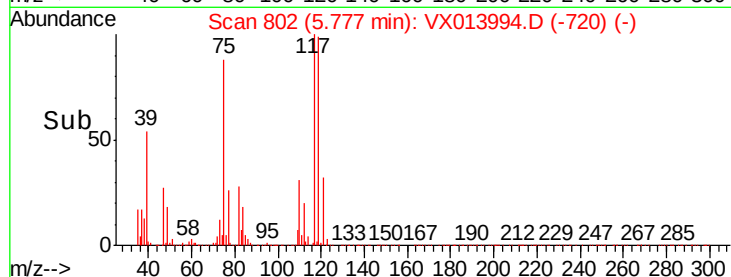
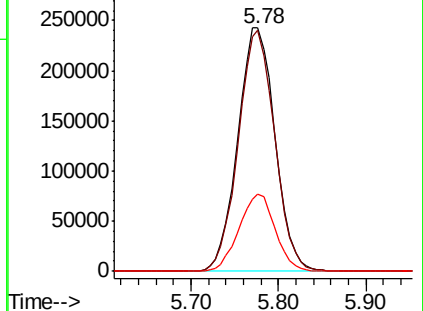
121 31.8 24.8 37.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 100.770 ug/l

RT: 6.13 min Scan# 860

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

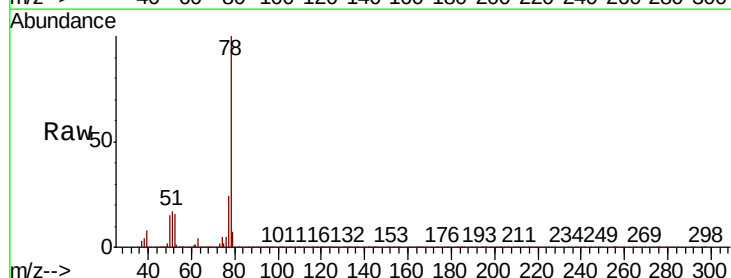
Tgt Ion: 78 Resp: 2303401

Ion Ratio Lower Upper

78 100

77 24.2 18.2 27.2

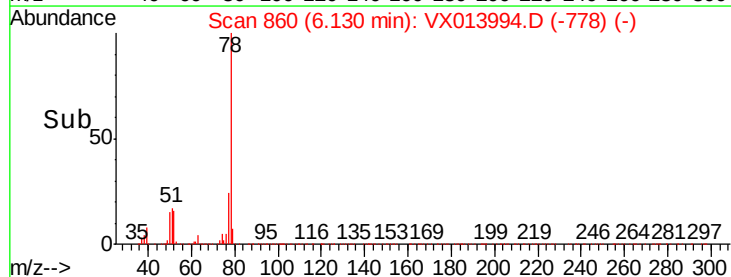
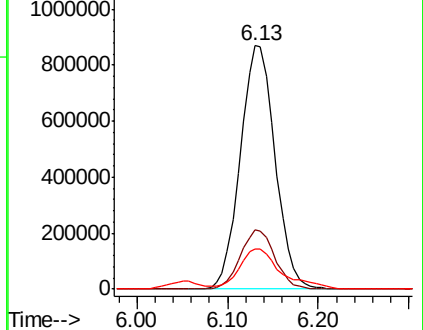
51 16.3 12.4 18.6

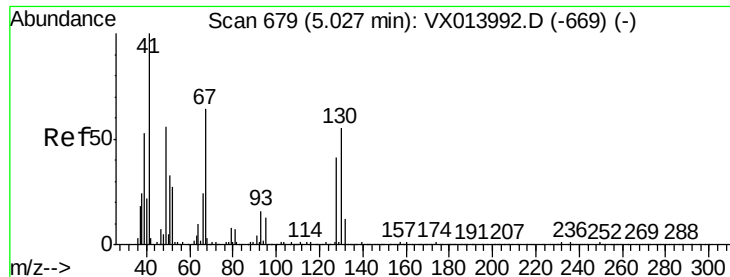


Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

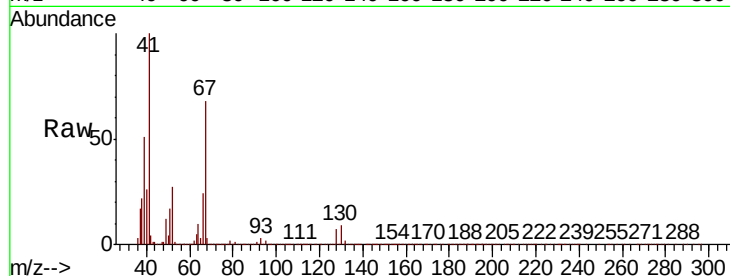




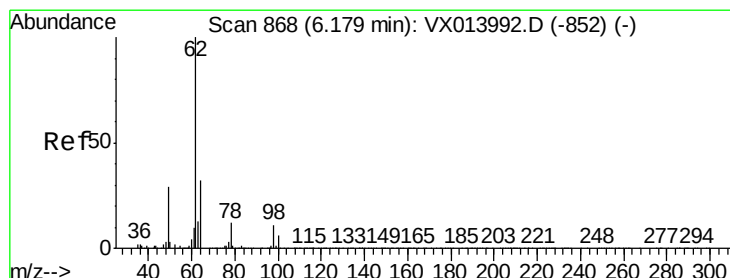
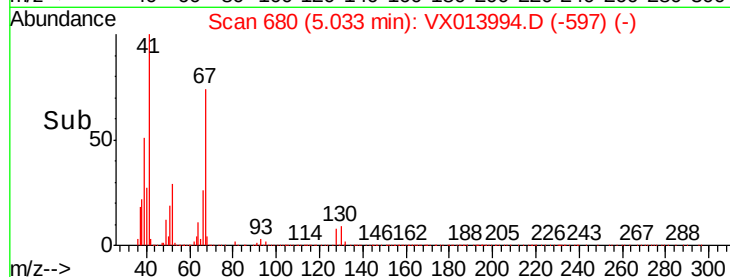
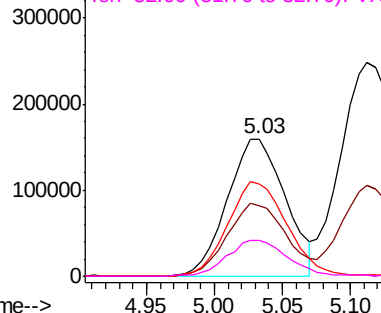
#35  
Methacrylonitrile  
Concen: 96.383 ug/l  
RT: 5.03 min Scan# 680  
Delta R.T. 0.01 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 473123 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 51.0  | 26.7  | 80.1   |
| 67       | 67.7  | 31.5  | 94.5   |
| 52       | 26.4  | 12.8  | 38.4   |

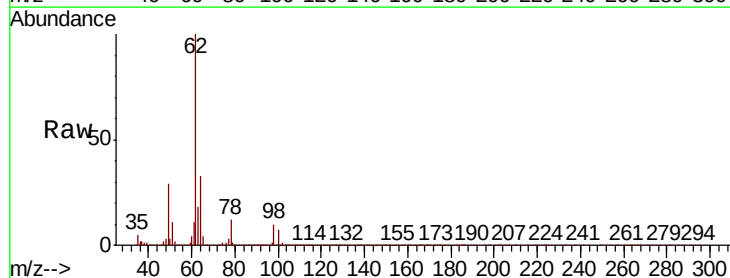


Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0  
Ion 67.00 (66.70 to 67.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0

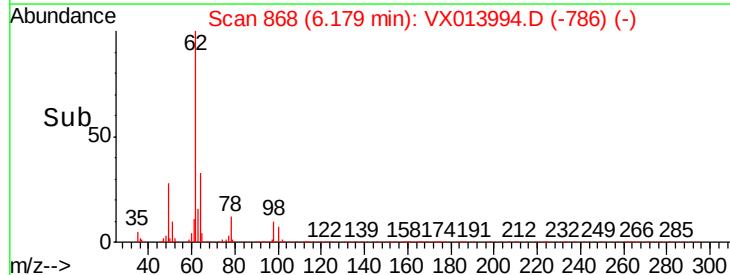
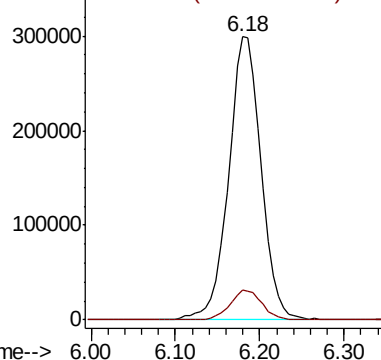


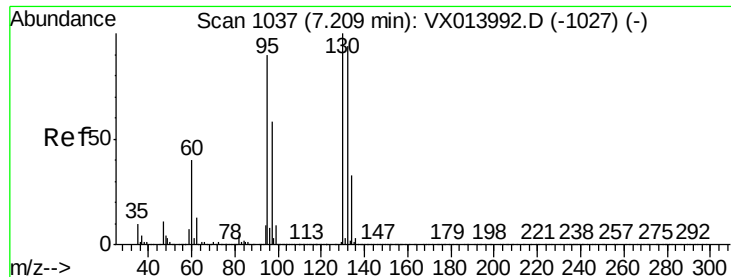
#36  
1,2-Dichloroethane  
Concen: 99.326 ug/l  
RT: 6.18 min Scan# 868  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 789384 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 10.3  | 8.4   | 12.6   |



Abundance Ion 62.00 (61.70 to 62.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0





#37

Trichloroethene

Concen: 101.839 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

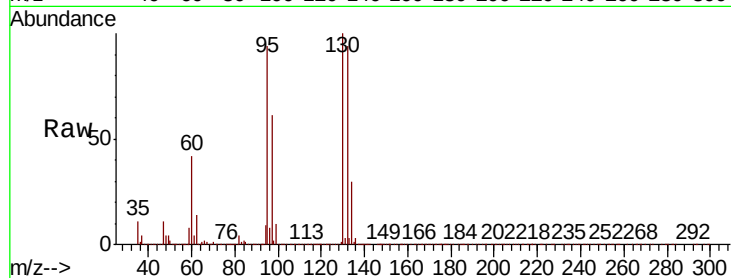
VSTDIC100

Tot Ion:130 Resp: 626111

Ion Ratio Lower Upper

130 100

95 93.6 71.7 107.5



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

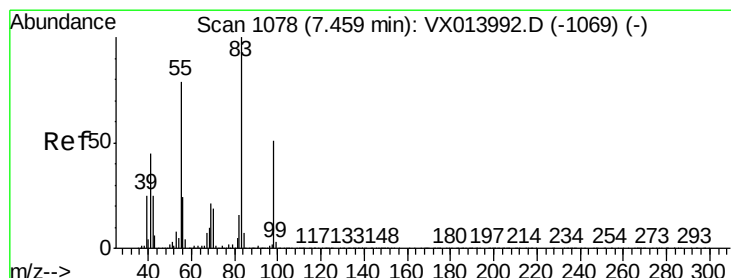
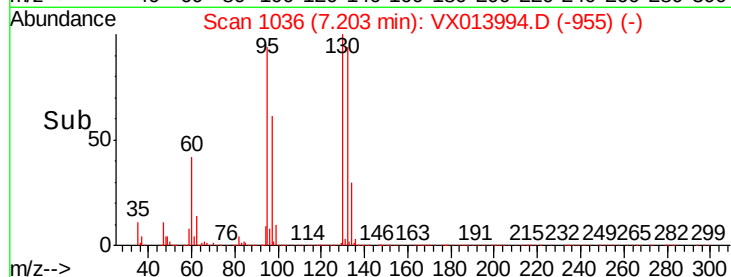
300000

200000

100000

0

Time-->



#38

Methylcyclohexane

Concen: 99.657 ug/l

RT: 7.46 min Scan# 1078

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

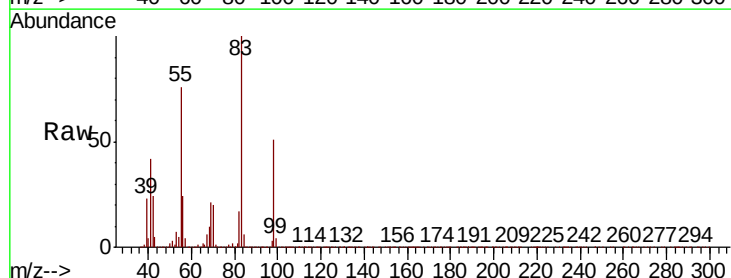
Tgt Ion: 83 Resp: 911244

Ion Ratio Lower Upper

83 100

55 76.7 39.4 118.1

98 49.7 25.1 75.3



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

7.46

500000

400000

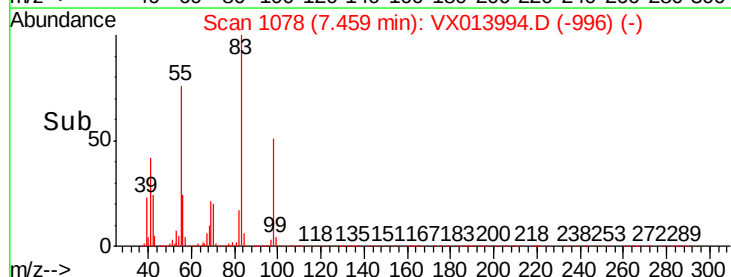
300000

200000

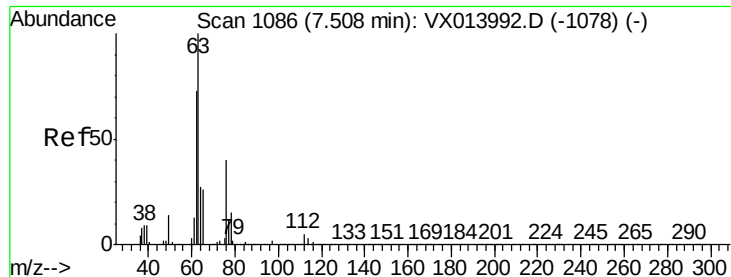
100000

0

Time-->







#39

1,2-Dichloropropane

Concen: 102.268 ug/l

RT: 7.51 min Scan# 1086

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

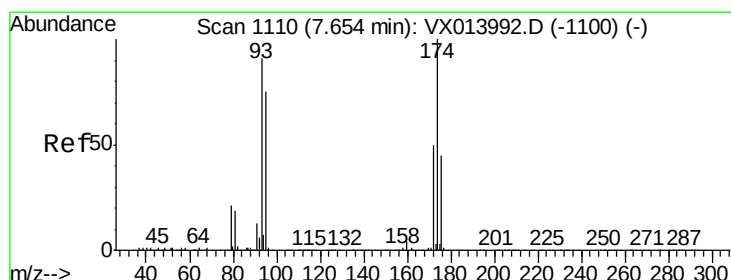
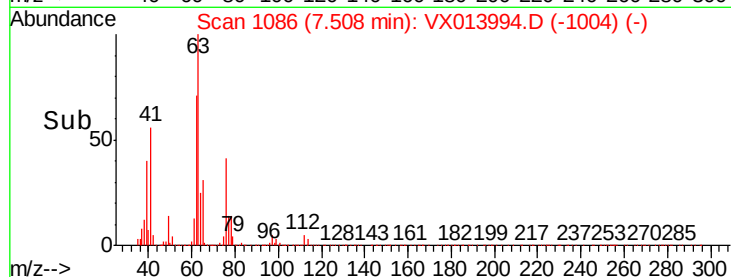
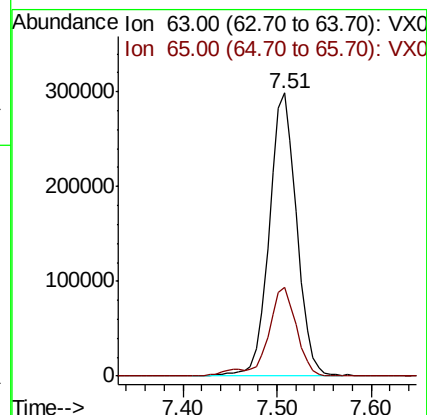
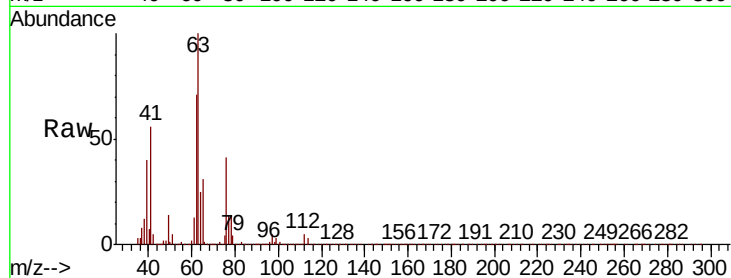
VSTDIC100

Tot Ion: 63 Resp: 605636

Ion Ratio Lower Upper

63 100

65 31.4 22.1 33.1



#40

Dibromomethane

Concen: 98.045 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

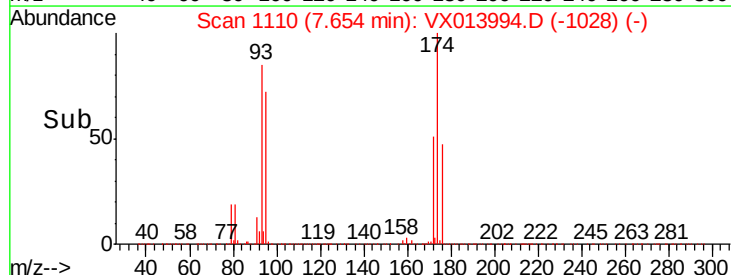
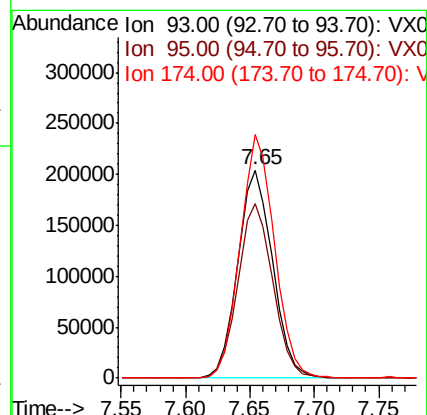
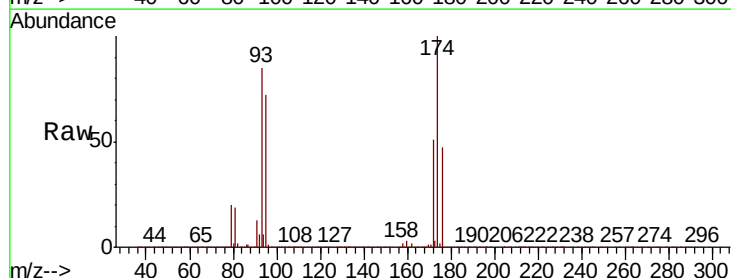
Tgt Ion: 93 Resp: 383113

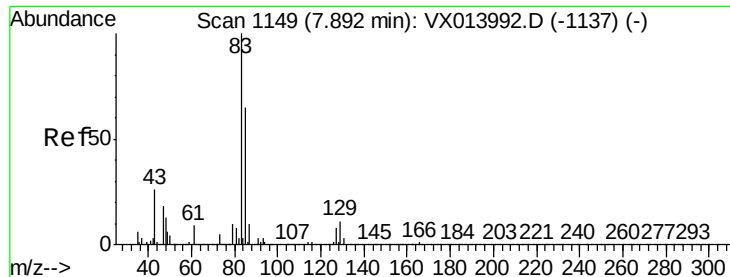
Ion Ratio Lower Upper

93 100

95 84.2 0.0 164.4

174 115.5 0.0 228.8





#41

Bromodichloromethane

Concen: 102.678 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

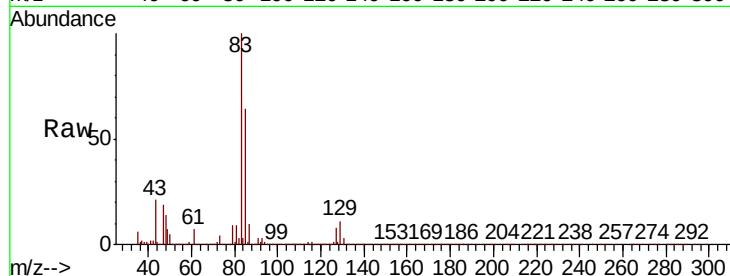
Tot Ion: 83 Resp: 777219

Ion Ratio Lower Upper

83 100

85 63.9 51.6 77.4

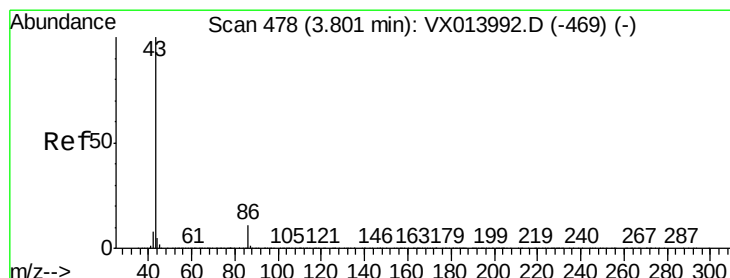
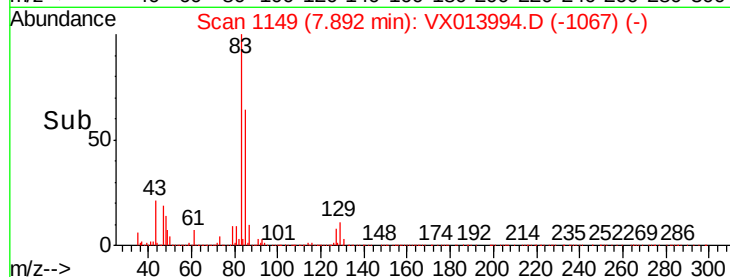
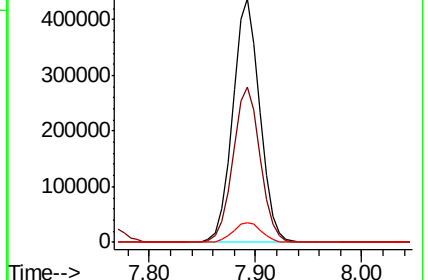
127 8.2 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): VX0



#42

Vinyl Acetate

Concen: 508.826 ug/l

RT: 3.80 min Scan# 478

Delta R.T. 0.00 min

Lab File: VX013994.D

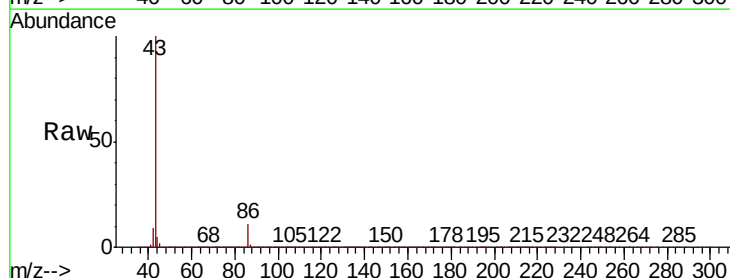
Acq: 13 Dec 2019 00:07

Tgt Ion: 43 Resp: 7948961

Ion Ratio Lower Upper

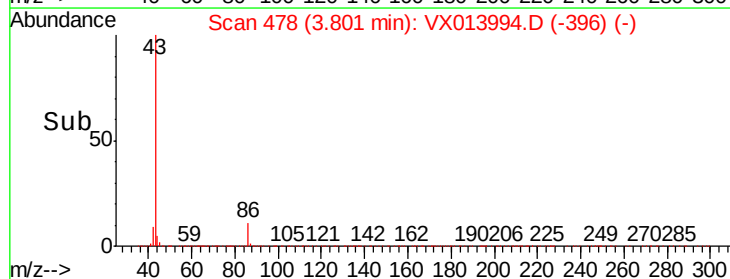
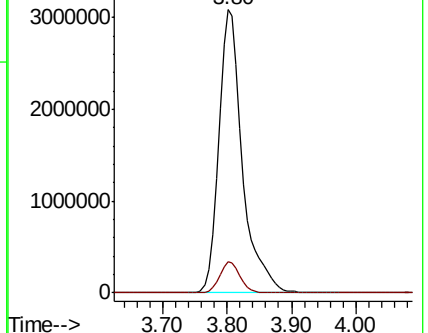
43 100

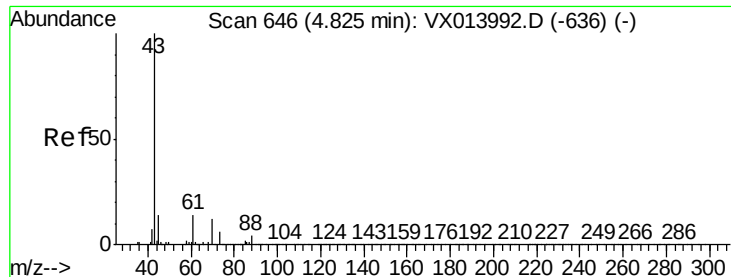
86 9.7 7.7 11.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

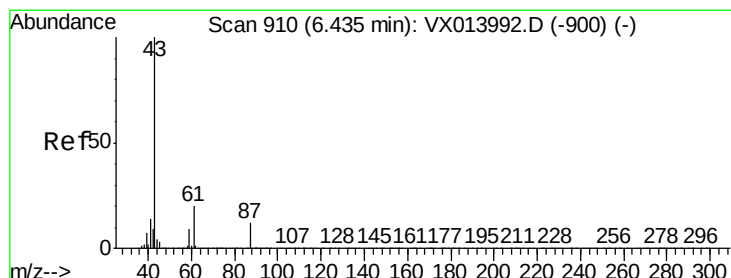
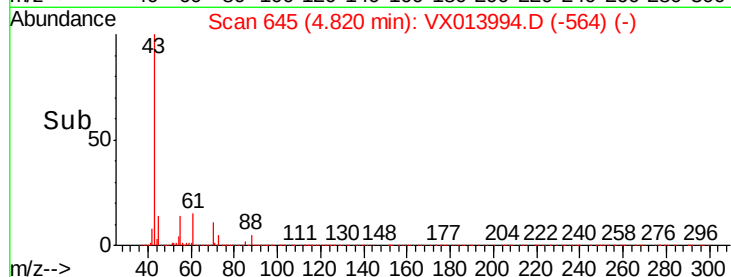
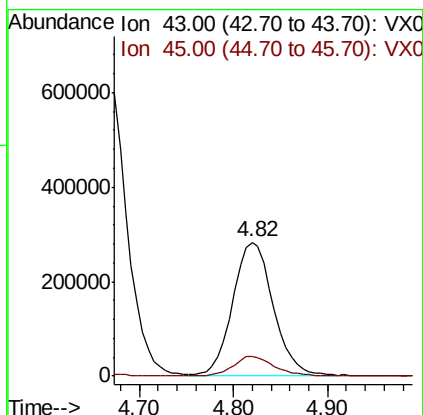
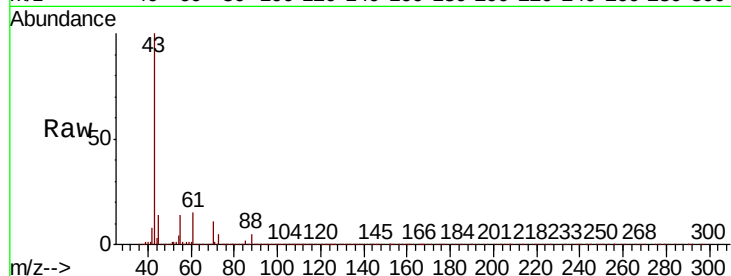




#43  
Ethyl Acetate  
Concen: 95.321 ug/l  
RT: 4.82 min Scan# 645  
Delta R.T. -0.01 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

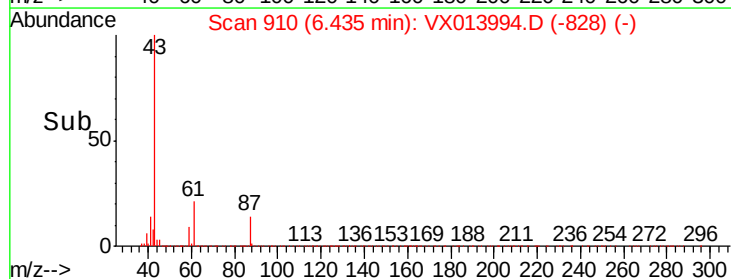
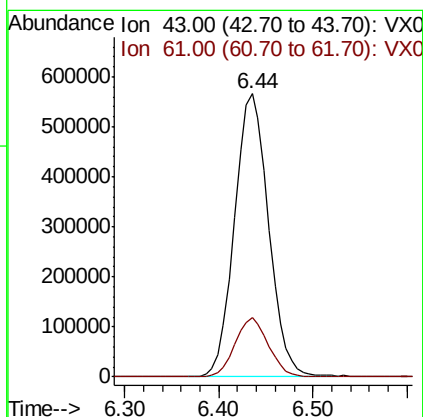
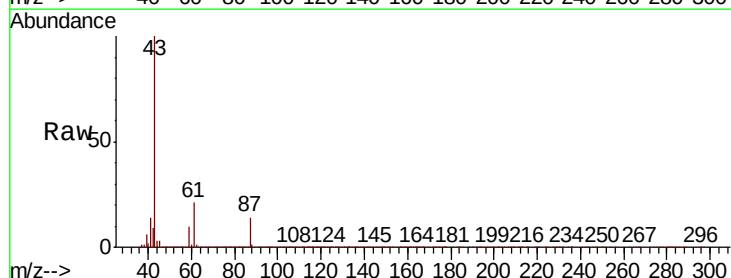
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

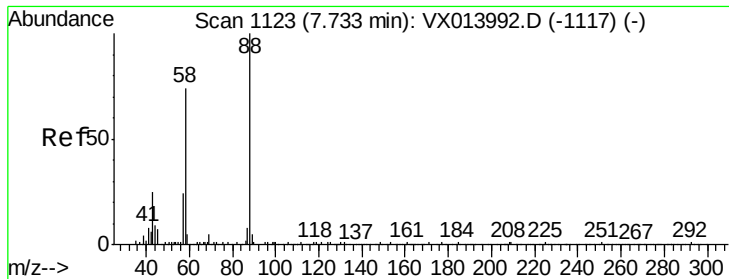
Tot Ion: 43 Resp: 846643  
Ion Ratio Lower Upper  
43 100  
45 14.6 11.8 17.8



#44  
Isopropyl Acetate  
Concen: 98.565 ug/l  
RT: 6.44 min Scan# 910  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 43 Resp: 1419760  
Ion Ratio Lower Upper  
43 100  
61 20.3 15.9 23.9





#45

1,4-Dioxane

Concen: 1695.576 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

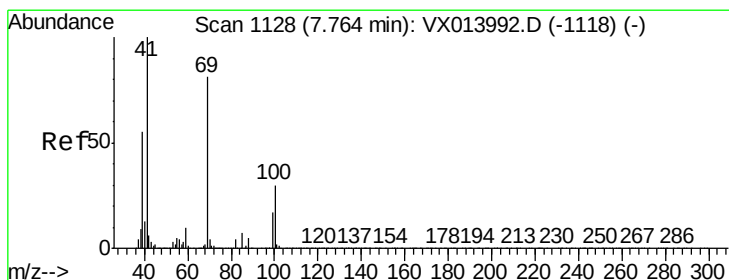
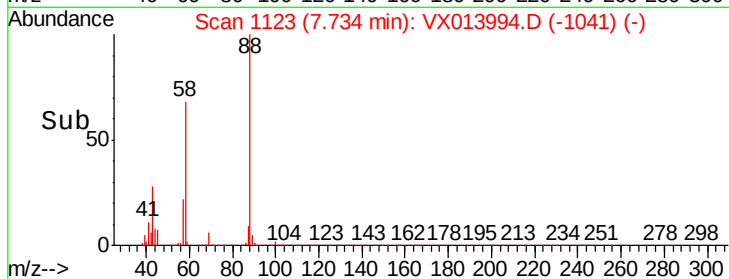
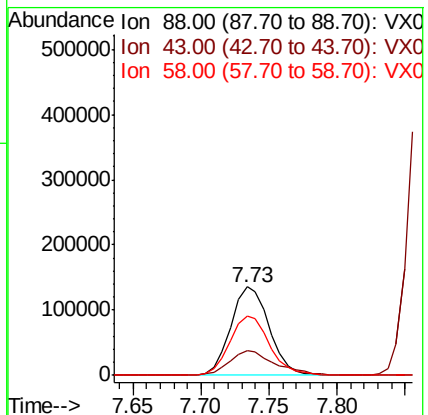
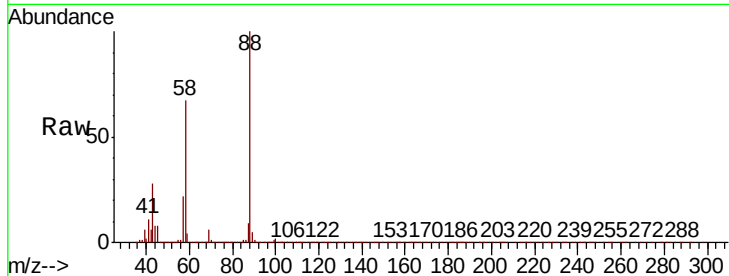
Tot Ion: 88 Resp: 265953

Ion Ratio Lower Upper

88 100

43 32.5 25.4 38.2

58 68.8 56.5 84.7



#46

Methyl methacrylate

Concen: 99.768 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

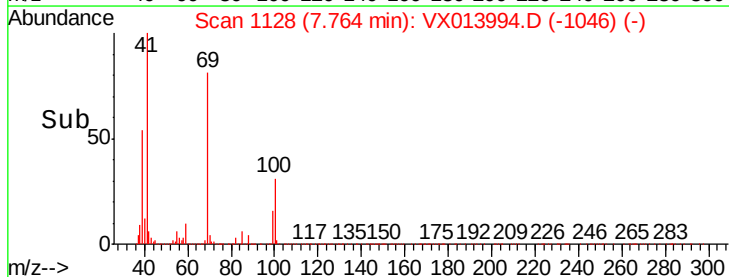
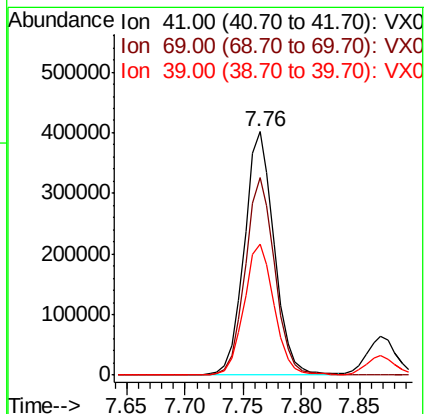
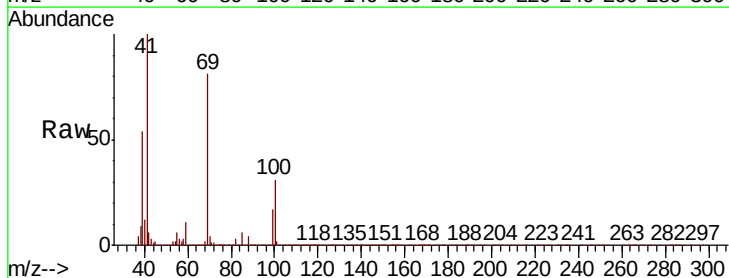
Tgt Ion: 41 Resp: 715759

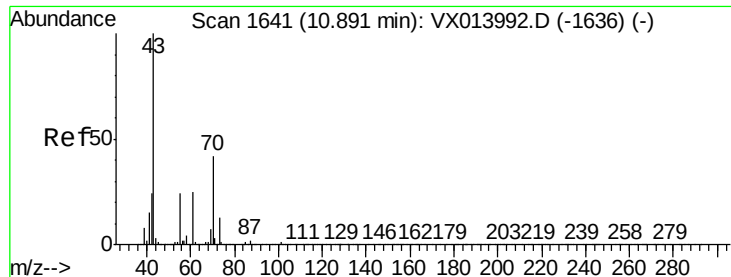
Ion Ratio Lower Upper

41 100

69 81.3 40.6 122.0

39 54.0 27.8 83.3





#47

n-amvl Acetate

Concen: 105.690 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

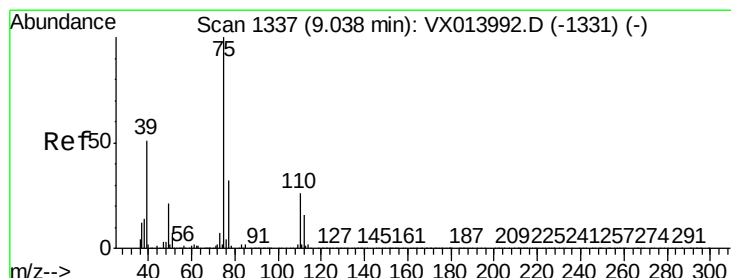
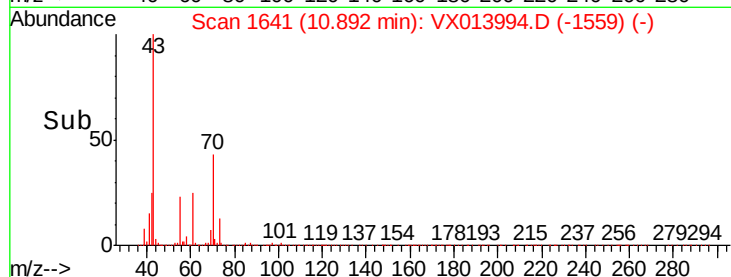
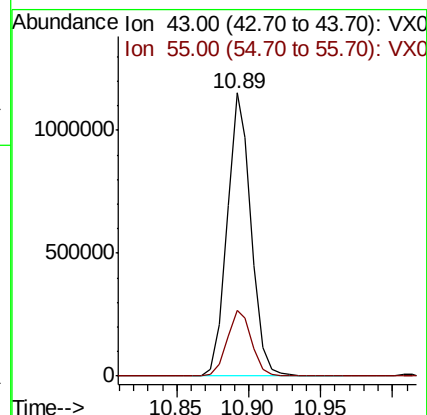
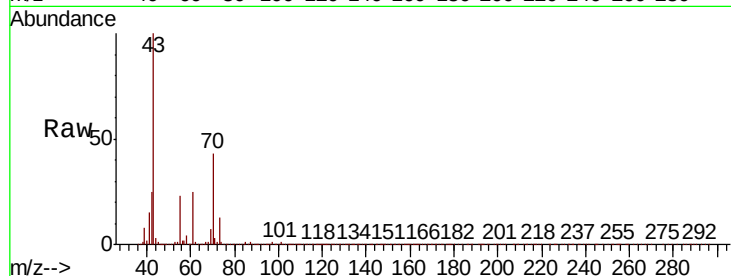
VSTDIC100

Tot Ion: 43 Resp: 1344292

Ion Ratio Lower Upper

43 100

55 23.7 19.4 29.2



#48

t-1,3-Dichloropropene

Concen: 103.997 ug/l

RT: 9.04 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VX013994.D

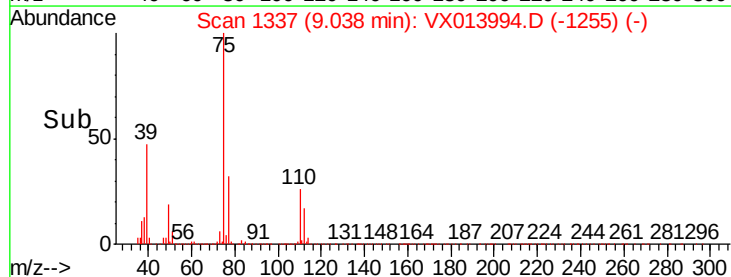
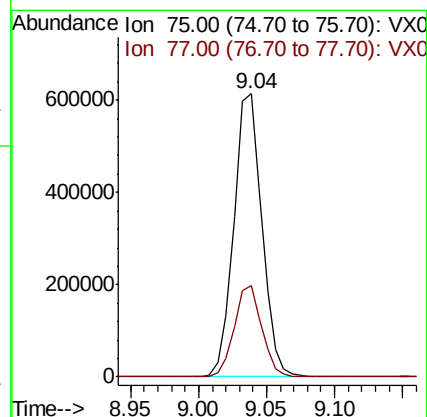
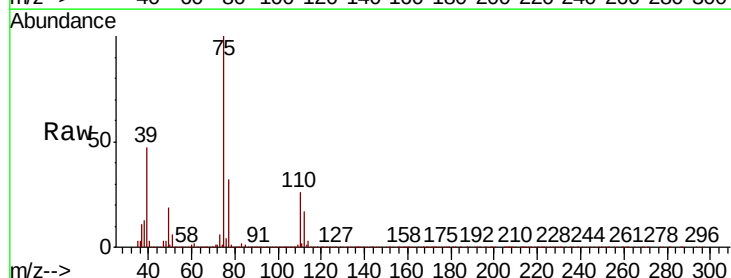
Acq: 13 Dec 2019 00:07

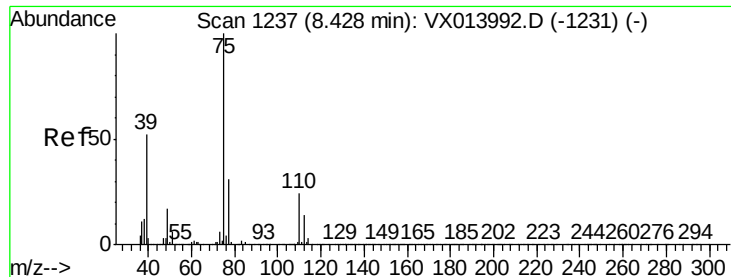
Tgt Ion: 75 Resp: 880589

Ion Ratio Lower Upper

75 100

77 32.3 26.0 39.0



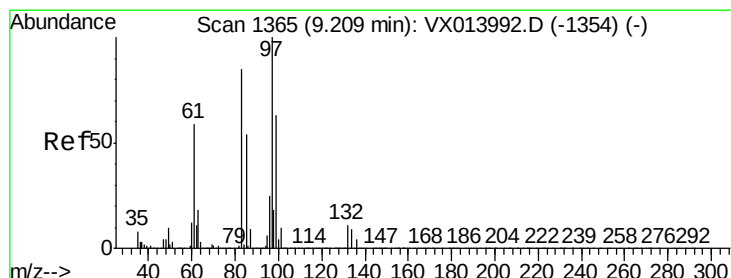
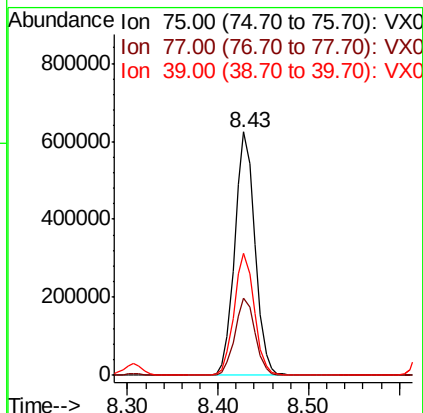
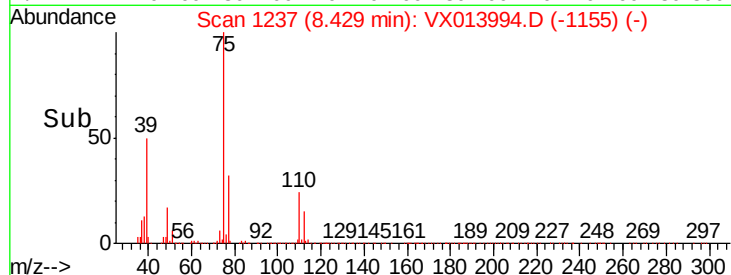
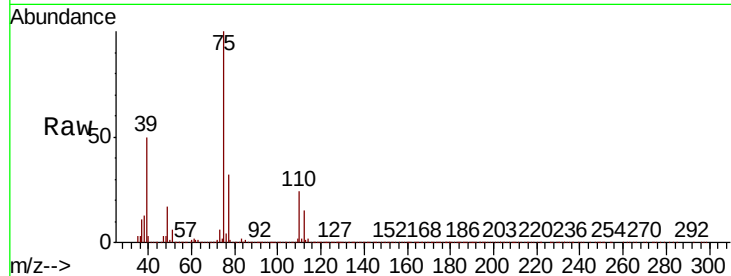


#49

cis-1,3-Dichloropropene  
 Concen: 103.655 ug/l  
 RT: 8.43 min Scan# 1237  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

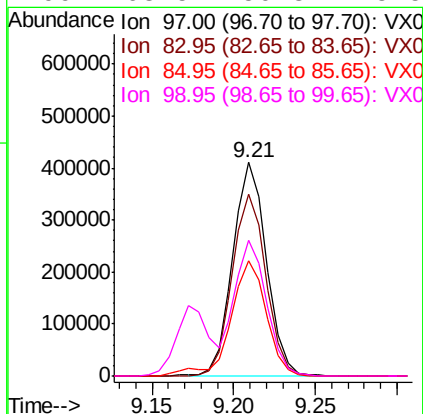
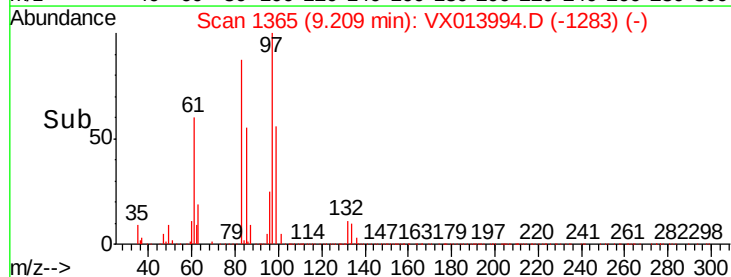
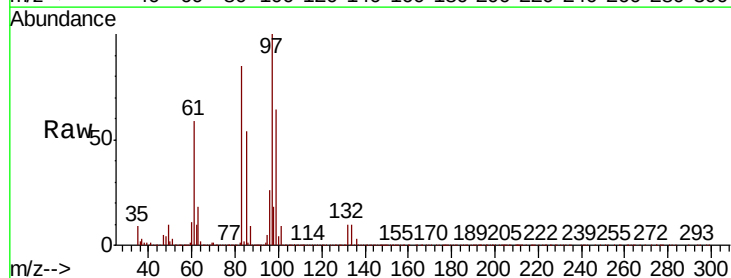
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.7  | 24.8  | 37.2  |
| 39      | 50.0  | 41.1  | 61.7  |

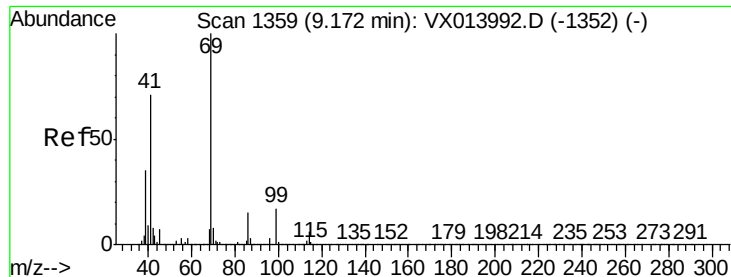


#50

1,1,2-Trichloroethane  
 Concen: 101.726 ug/l  
 RT: 9.21 min Scan# 1365  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 85.0  | 68.1  | 102.1 |
| 85      | 53.9  | 42.7  | 64.1  |
| 99      | 63.5  | 50.3  | 75.5  |





#51

Ethyl methacrylate

Concen: 104.422 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

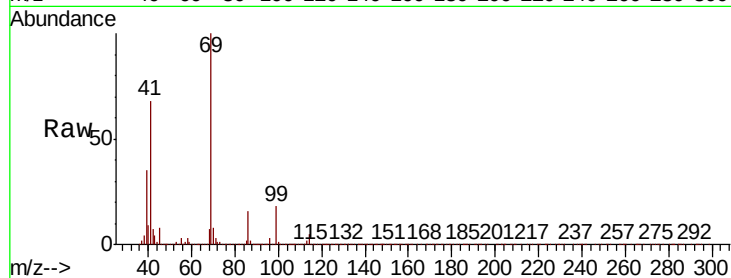
MSVOA\_X

ClientSampleId :

VSTDIC100

Tot Ion: 69 Resp: 996910

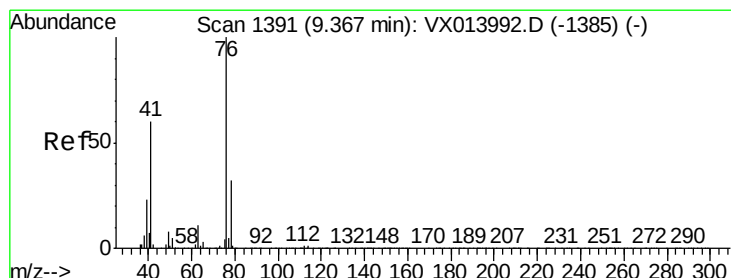
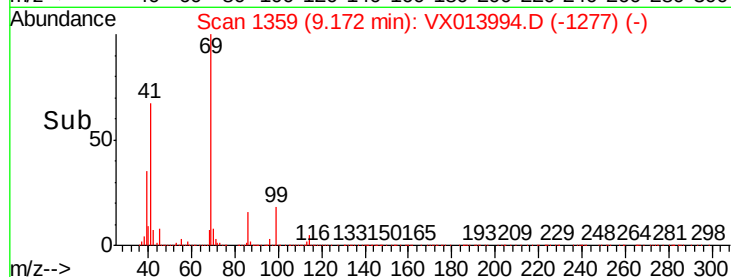
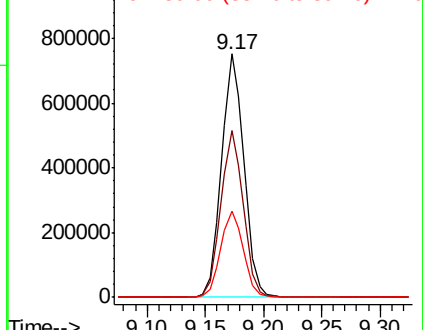
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 68.2  | 35.4  | 106.1 |
| 39  | 35.3  | 17.8  | 53.3  |



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



#52

1,3-Dichloropropane

Concen: 100.759 ug/l

RT: 9.37 min Scan# 1391

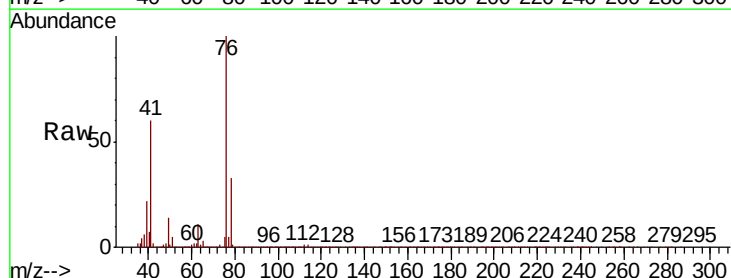
Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

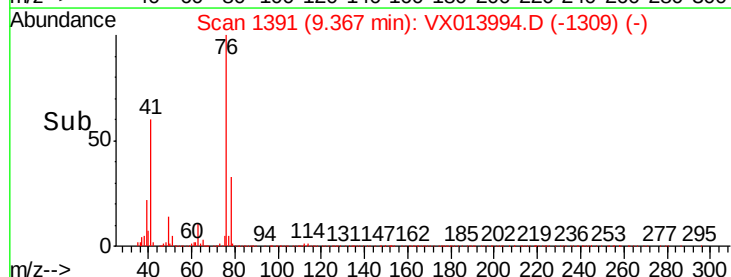
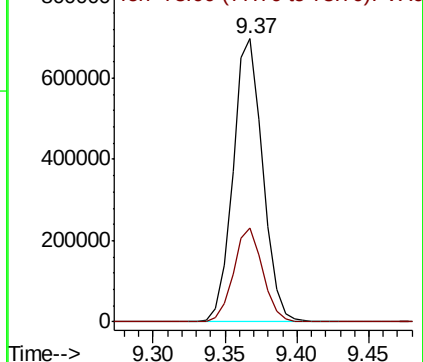
Tgt Ion: 76 Resp: 1002486

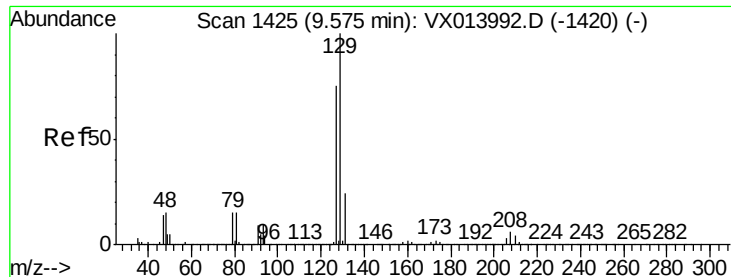
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 32.5  | 0.0   | 63.4  |



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#53

Dibromochloromethane

Concen: 104.896 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.01 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

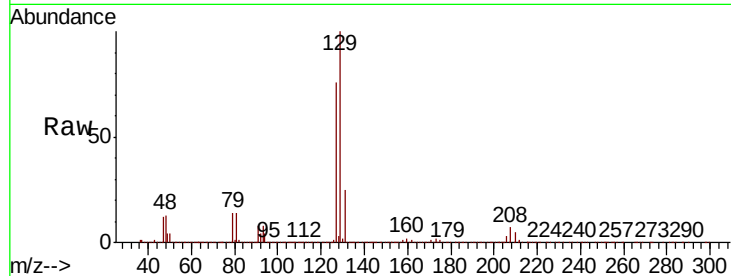
VSTDIC100

Tot Ion:129 Resp: 639157

Ion Ratio Lower Upper

129 100

127 76.9 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

9.58

400000

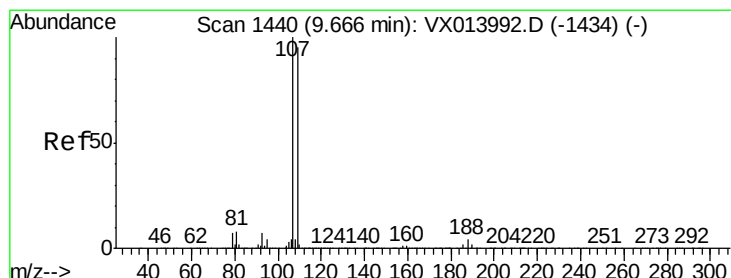
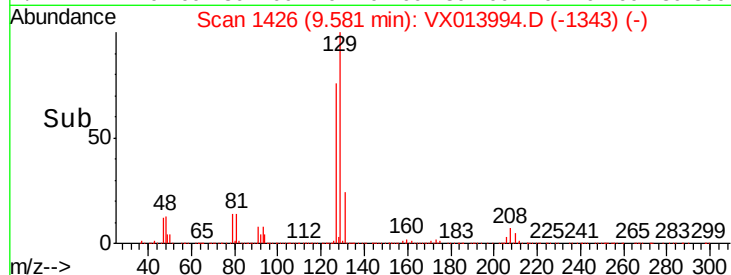
300000

200000

100000

0

Time--> 9.50 9.55 9.60 9.65



#54

1,2-Dibromoethane

Concen: 100.877 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. 0.00 min

Lab File: VX013994.D

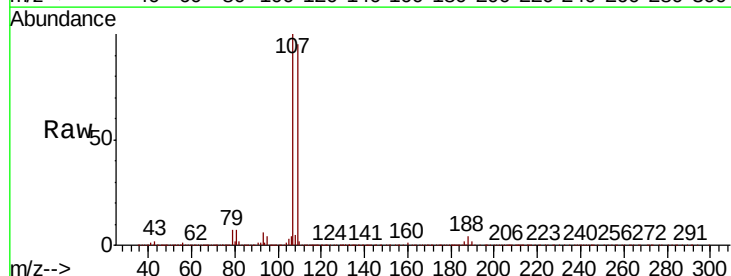
Acq: 13 Dec 2019 00:07

Tgt Ion:107 Resp: 621203

Ion Ratio Lower Upper

107 100

109 93.6 77.2 115.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.67

400000

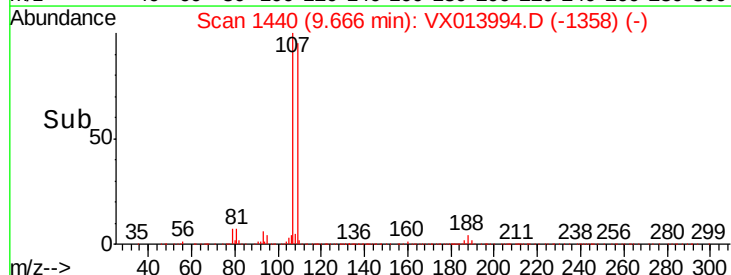
300000

200000

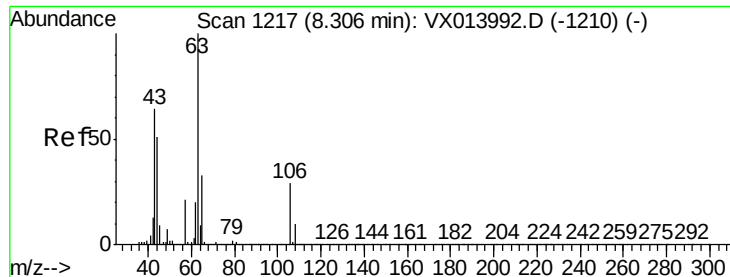
100000

0

Time--> 9.60 9.65 9.70 9.75



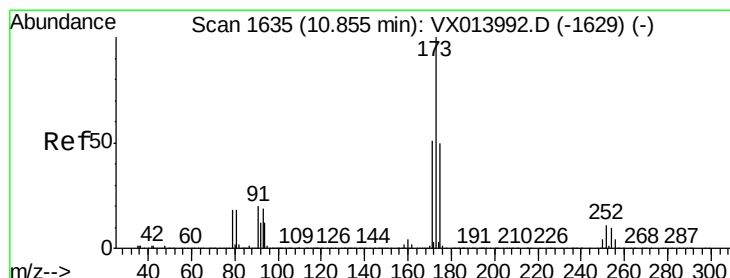
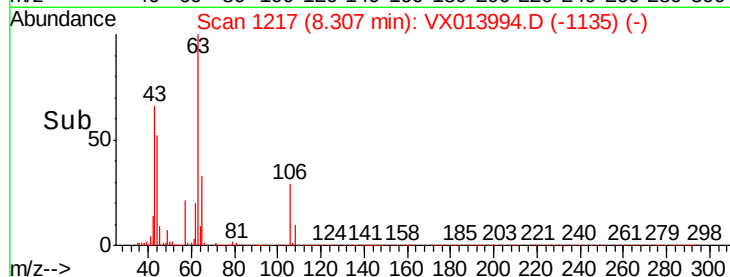
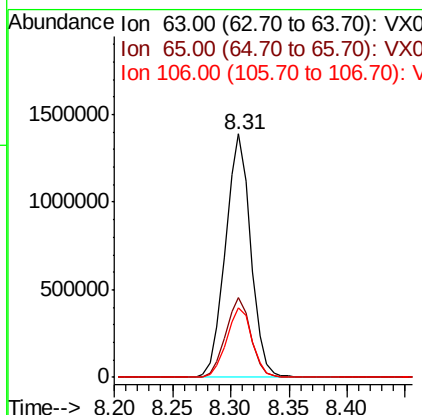
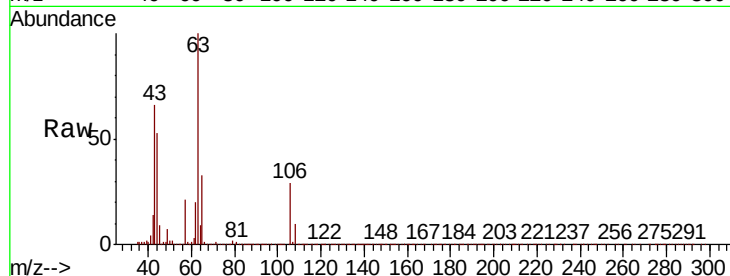




#55  
2-Chloroethyl vinyl ether  
Concen: 509.071 ug/l  
RT: 8.31 min Scan# 1217  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

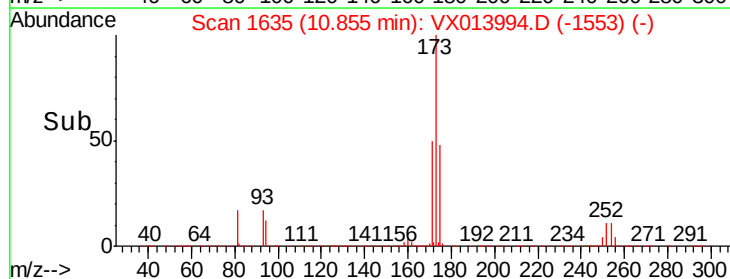
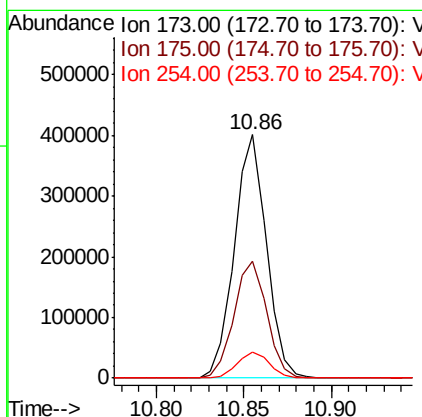
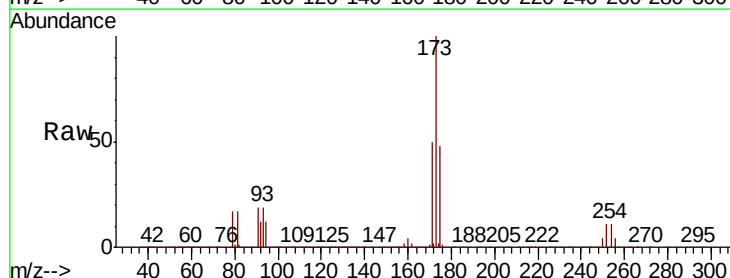
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

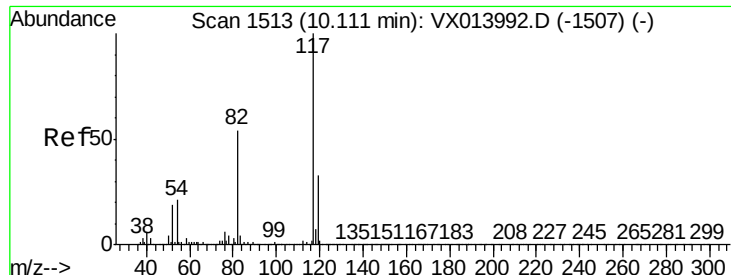
Tot Ion: 63 Resp: 2079793  
Ion Ratio Lower Upper  
63 100  
65 32.7 25.8 38.6  
106 28.9 22.9 34.3



#56  
Bromoform  
Concen: 105.844 ug/l  
RT: 10.86 min Scan# 1635  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 173 Resp: 511318  
Ion Ratio Lower Upper  
173 100  
175 49.1 39.5 59.3  
254 10.9 8.2 12.4

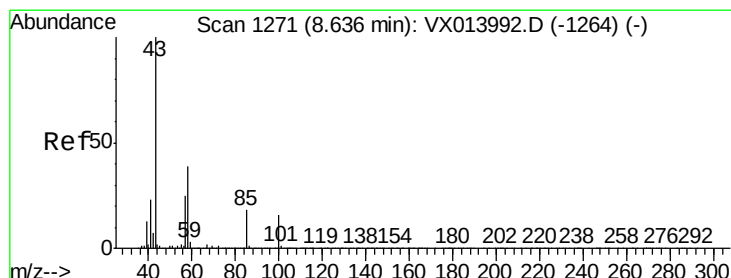
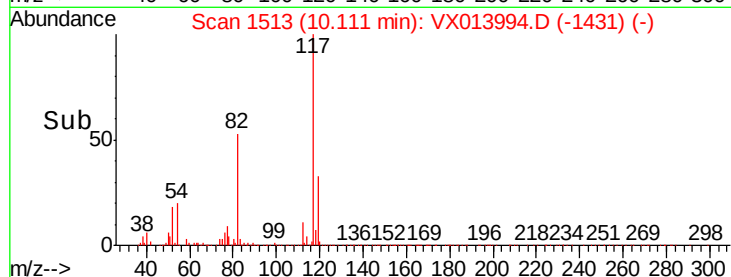
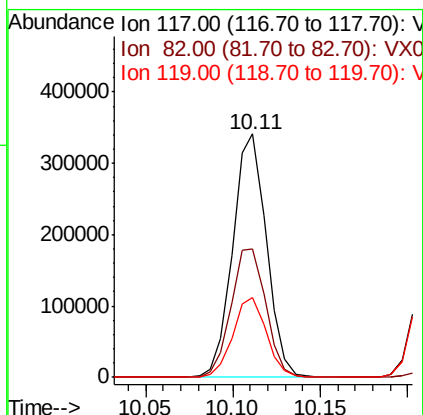
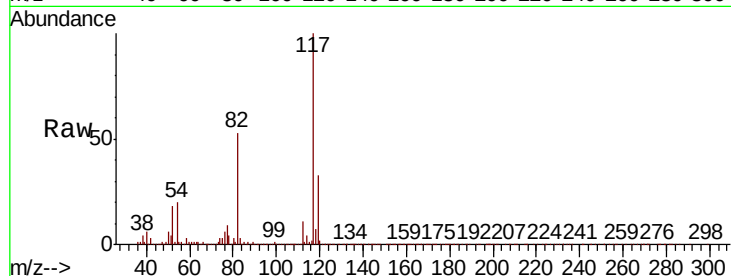




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

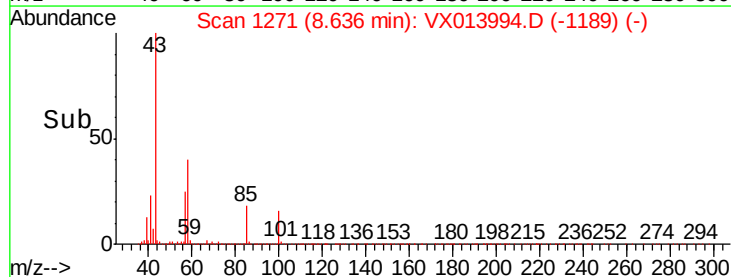
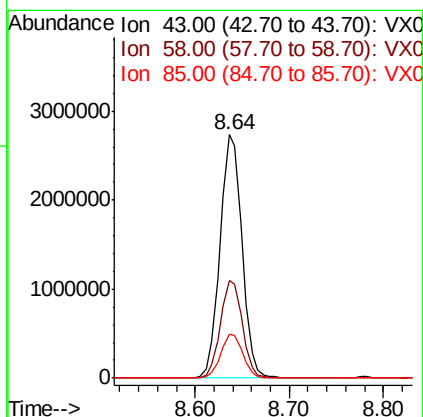
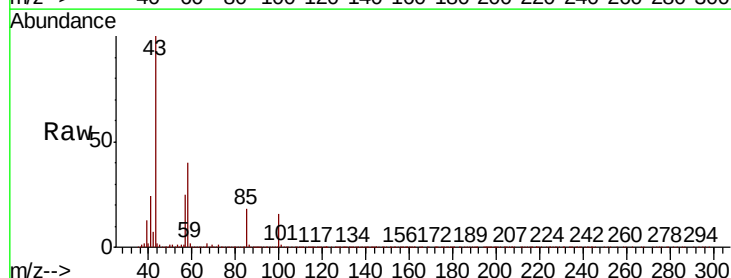
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

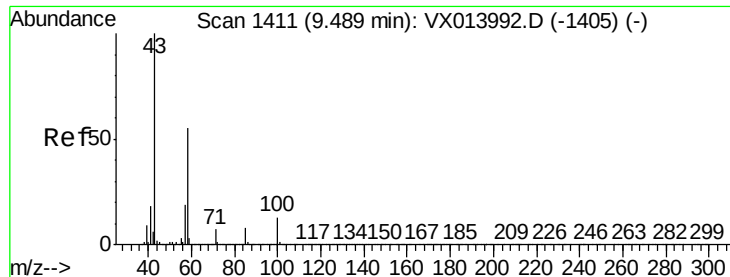
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.7  | 43.8  | 65.6  |
| 119     | 32.5  | 25.8  | 38.6  |



#58  
4-Methyl-2-Pentanone  
Concen: 470.064 ug/l  
RT: 8.64 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 40.2  | 31.2  | 46.8  |
| 85      | 17.9  | 14.2  | 21.2  |

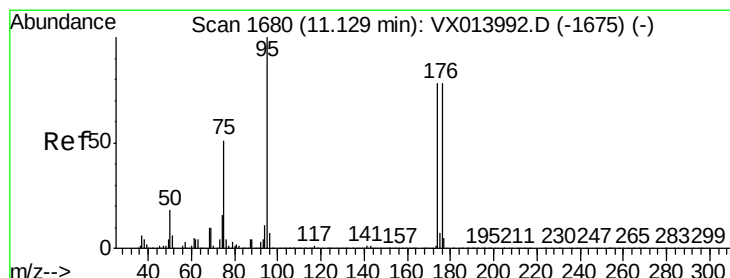
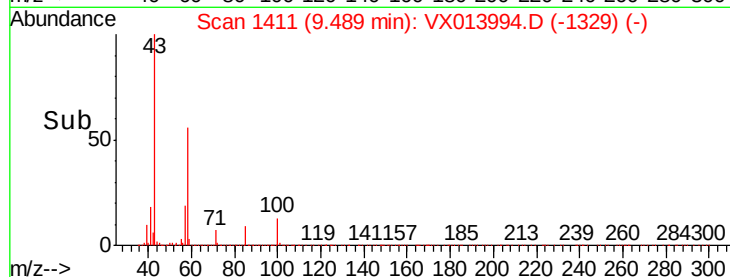
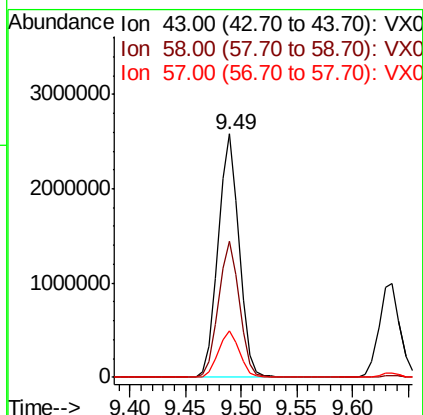
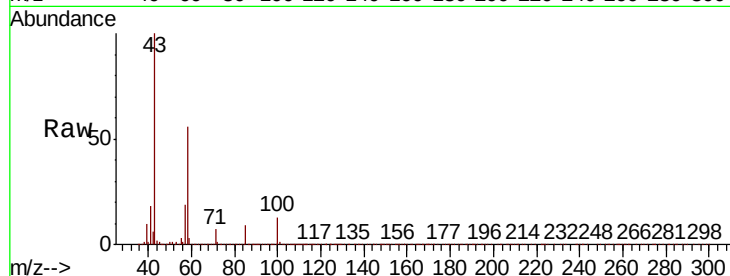




#59  
2-Hexanone  
Concen: 458.836 ug/l  
RT: 9.49 min Scan# 1411  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

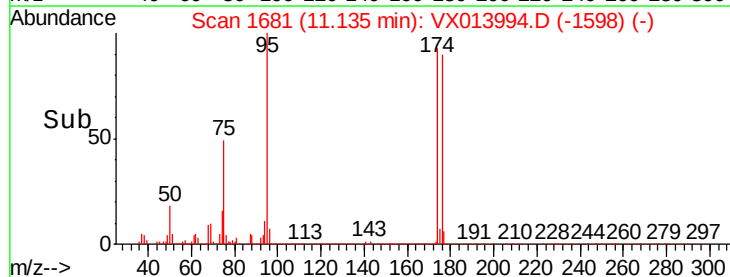
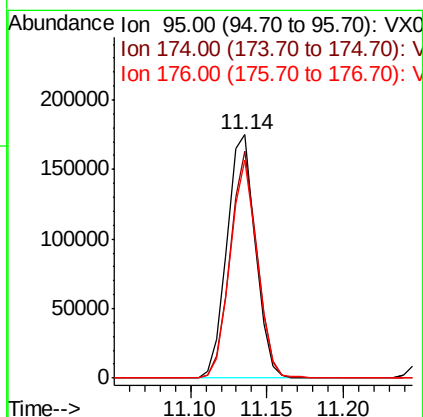
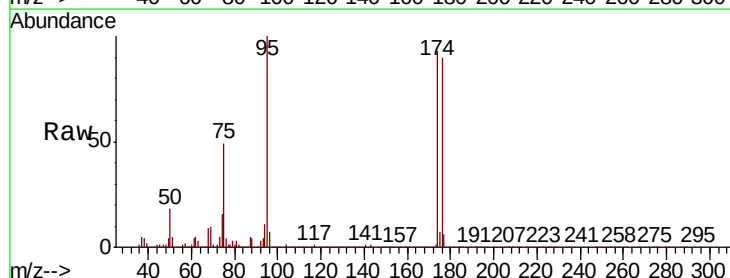
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

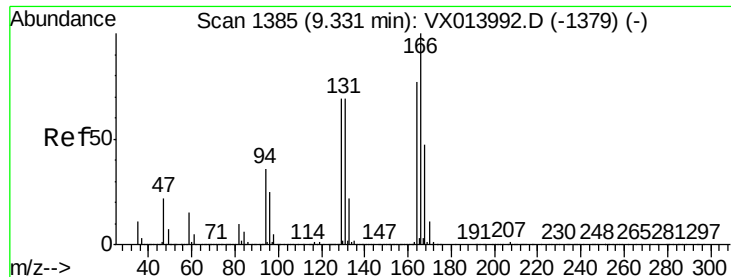
Tot Ion: 43 Resp: 3366865  
Ion Ratio Lower Upper  
43 100  
58 55.8 43.8 65.6  
57 19.1 15.4 23.0



#60  
4-Bromofluorobenzene  
Concen: 30.670 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 95 Resp: 225683  
Ion Ratio Lower Upper  
95 100  
174 88.2 70.2 105.2  
176 85.3 68.3 102.5





#61

Tetrachloroethene

Concen: 103.341 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tot Ion:164 Resp: 590448

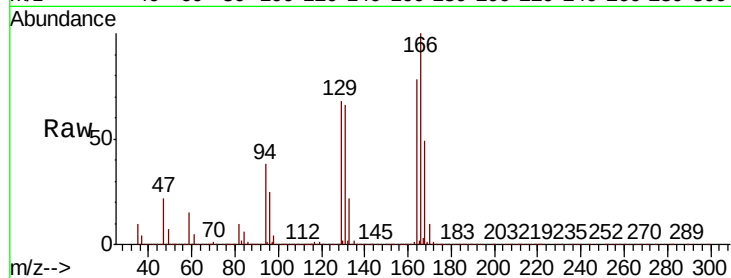
Ion Ratio Lower Upper

164 100

166 128.1 104.2 156.2

129 86.7 71.6 107.4

131 84.5 71.7 107.5

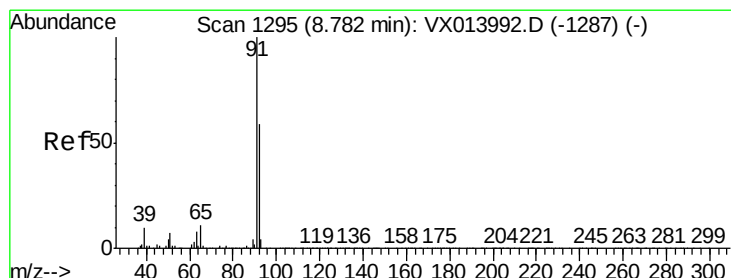
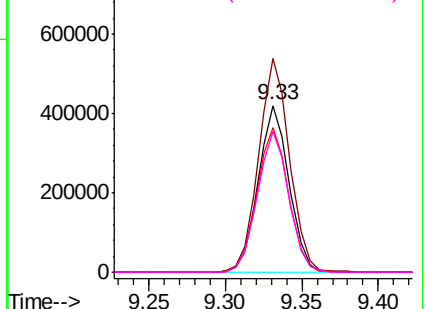
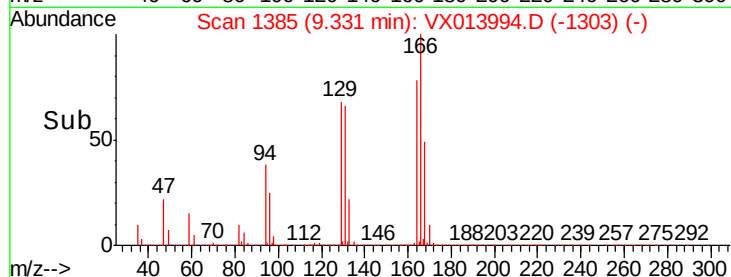


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 98.302 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX013994.D

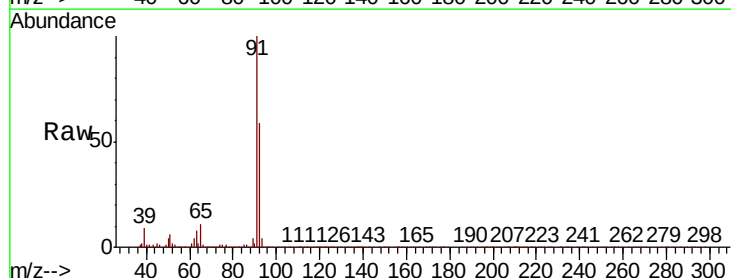
Acq: 13 Dec 2019 00:07

Tgt Ion: 91 Resp: 2486519

Ion Ratio Lower Upper

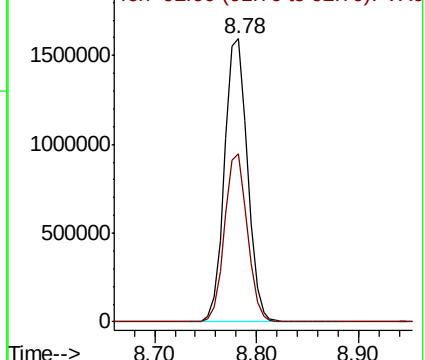
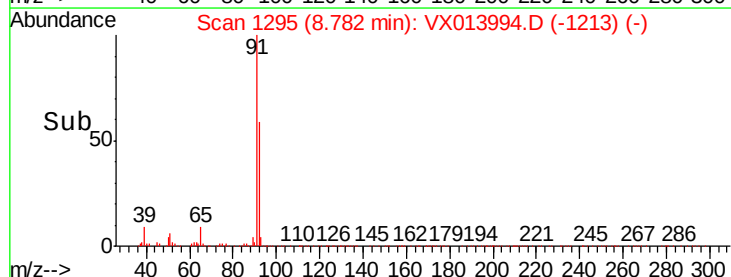
91 100

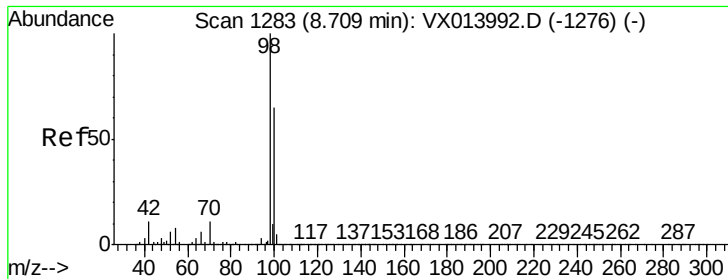
92 58.8 46.4 69.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 28.941 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

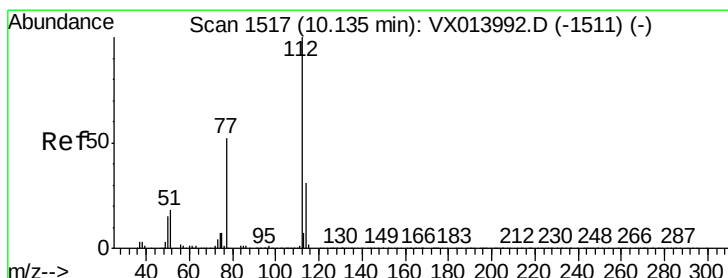
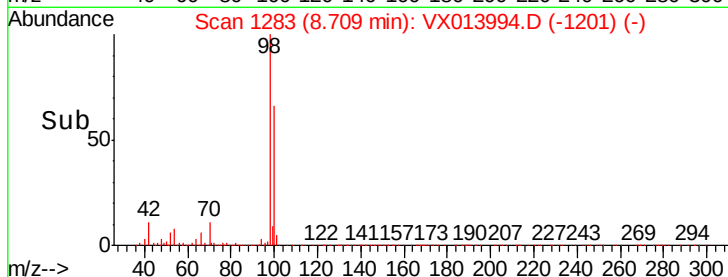
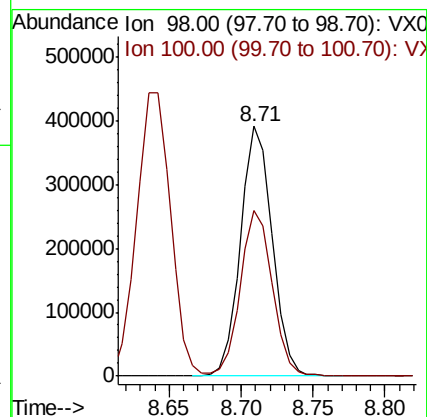
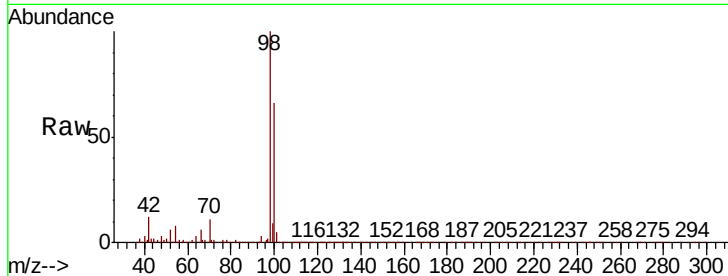
VSTDICC100

Tot Ion: 98 Resp: 597695

Ion Ratio Lower Upper

98 100

100 66.6 52.2 78.2



#64

Chlorobenzene

Concen: 98.866 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. 0.00 min

Lab File: VX013994.D

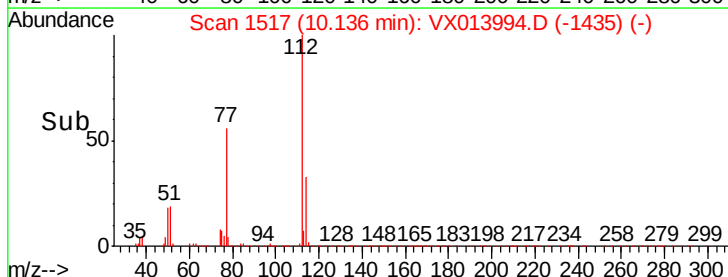
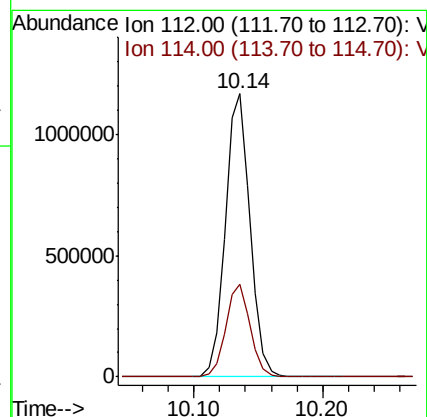
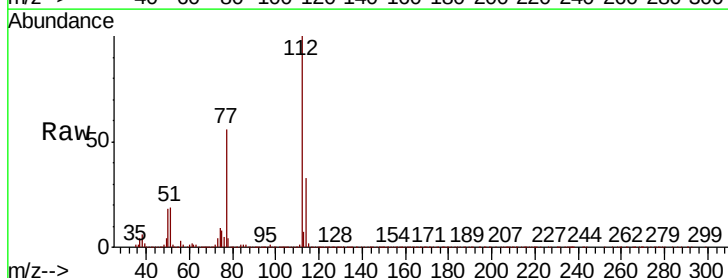
Acq: 13 Dec 2019 00:07

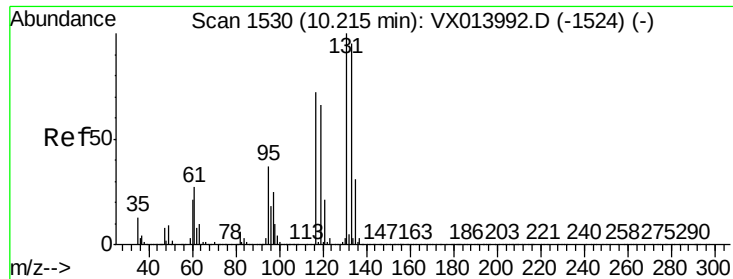
Tgt Ion: 112 Resp: 1571844

Ion Ratio Lower Upper

112 100

114 32.8 24.4 36.6

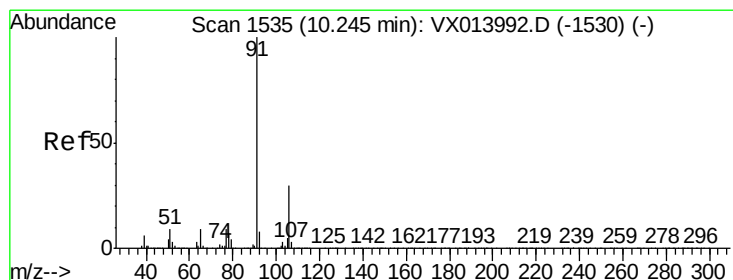
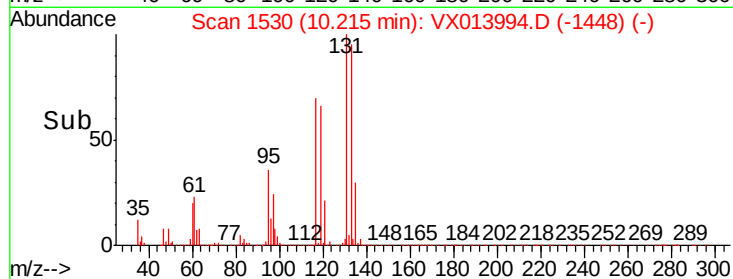
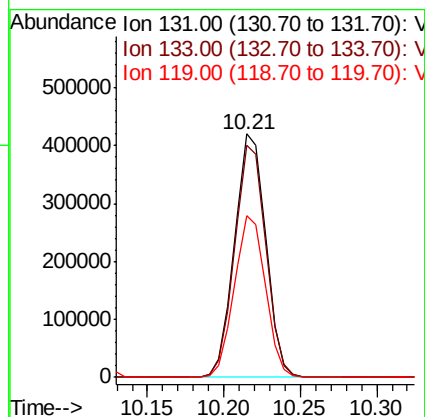
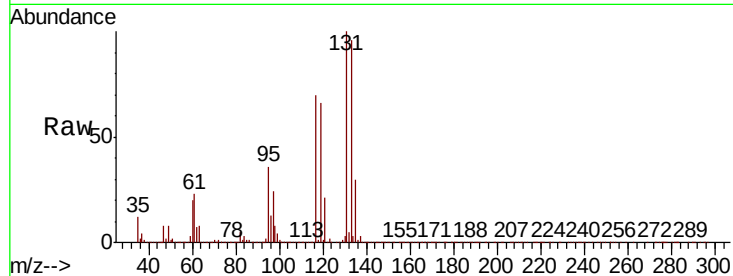




#65  
 1,1,1,2-Tetrachloroethane  
 Concen: 100.470 ug/l  
 RT: 10.21 min Scan# 1530  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

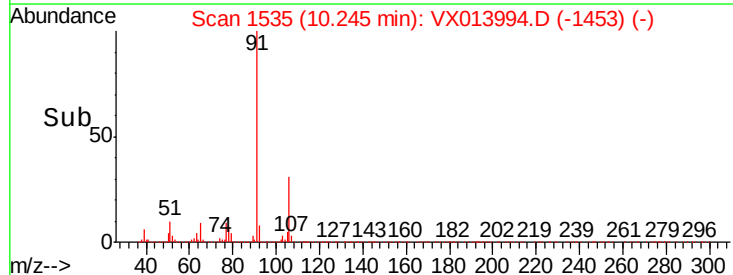
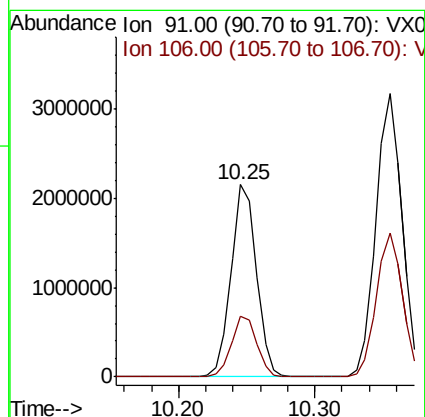
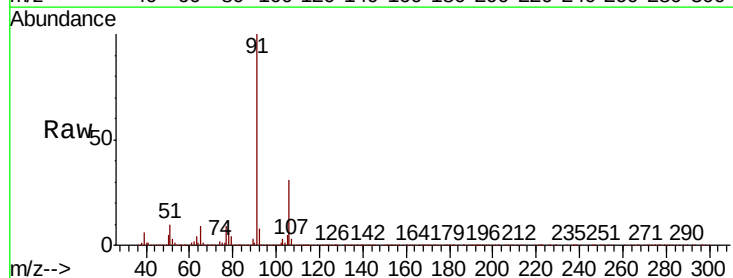
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

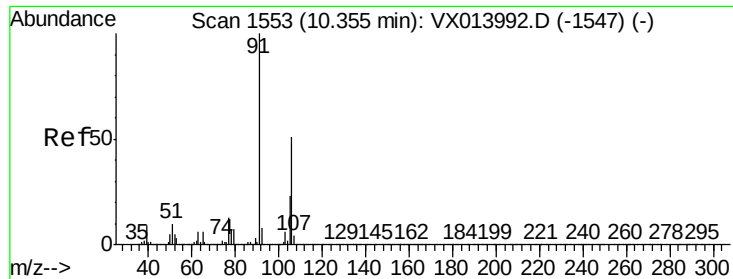
Tot Ion:131 Resp: 593594  
 Ion Ratio Lower Upper  
 131 100  
 133 95.6 0.0 189.8  
 119 66.1 0.0 132.2



#66  
 Ethyl Benzene  
 Concen: 100.636 ug/l  
 RT: 10.25 min Scan# 1535  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

Tgt Ion: 91 Resp: 2799807  
 Ion Ratio Lower Upper  
 91 100  
 106 31.3 24.2 36.2

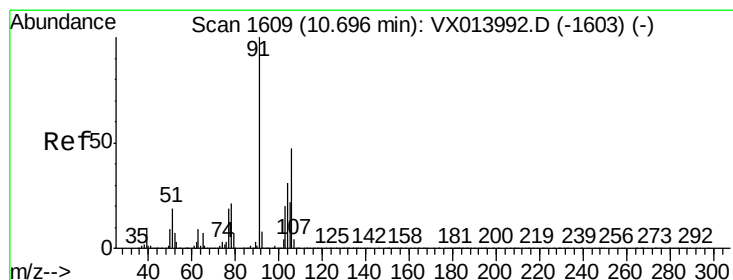
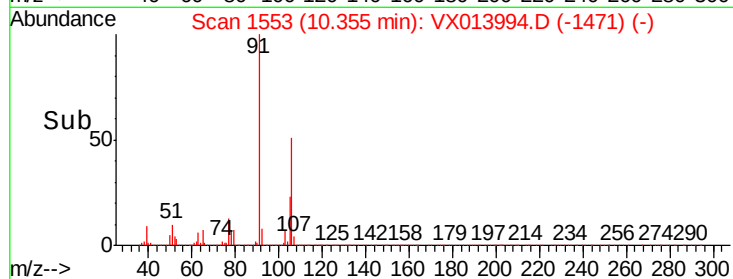
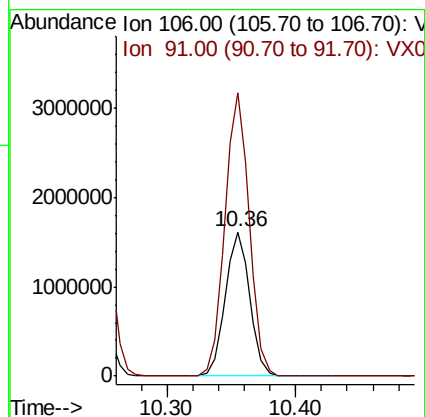
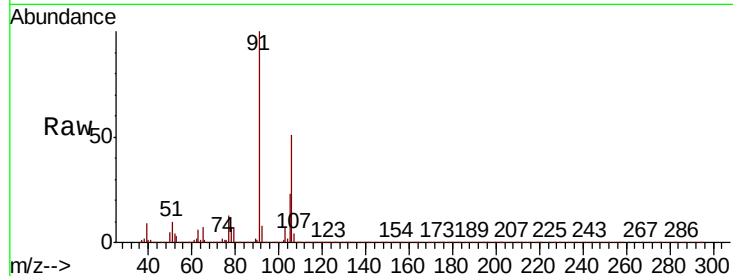




#67  
m/p-Xylenes  
Concen: 200.249 ug/l  
RT: 10.36 min Scan# 1553  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

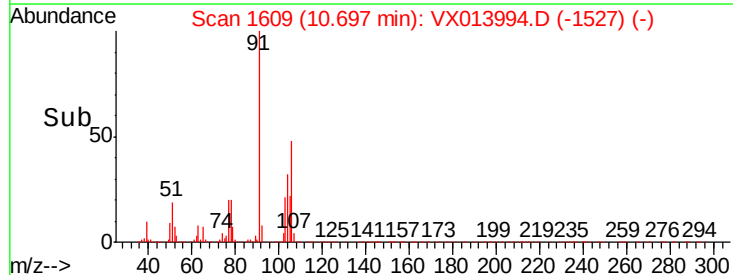
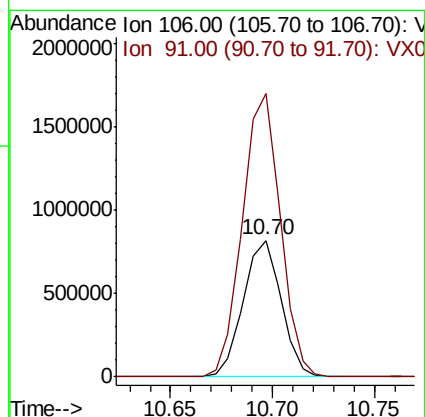
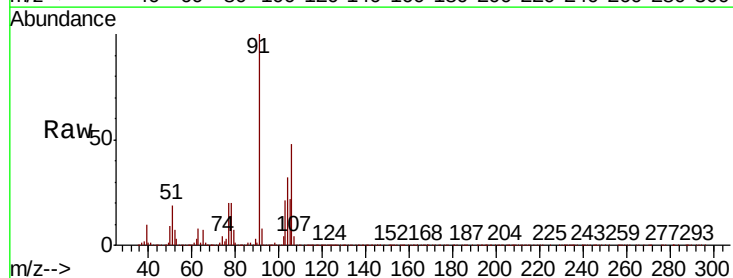
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

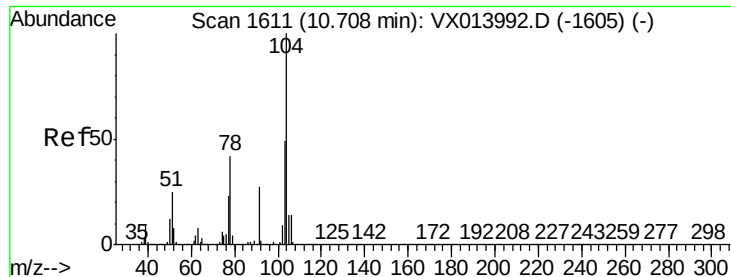
Tot Ion:106 Resp: 2151051  
Ion Ratio Lower Upper  
106 100  
91 196.3 159.3 238.9



#68  
o-Xylene  
Concen: 101.618 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion:106 Resp: 1058857  
Ion Ratio Lower Upper  
106 100  
91 207.7 104.8 314.6

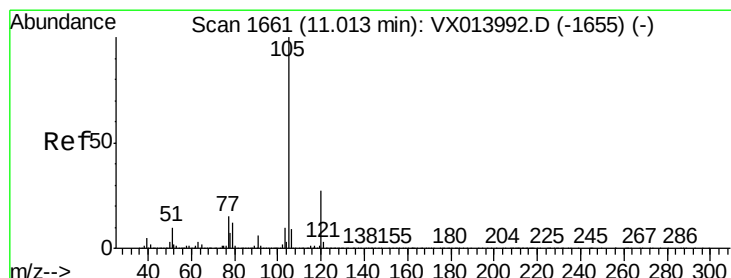
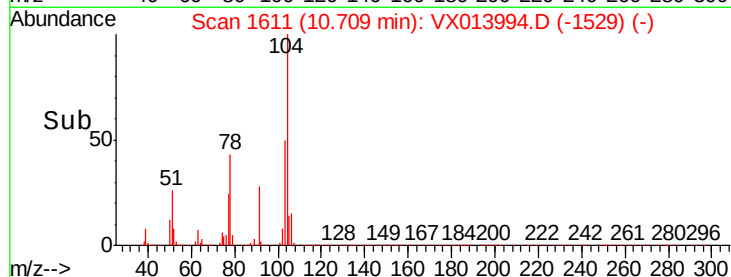
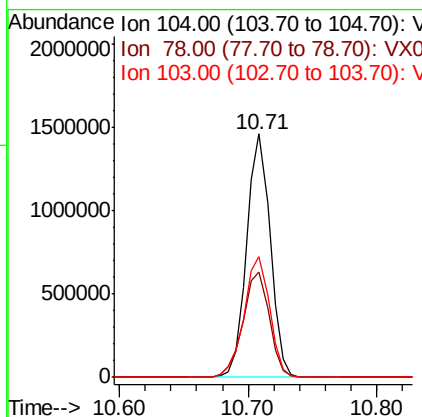
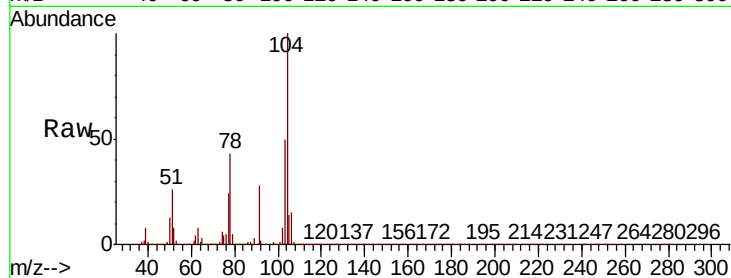




#69  
Stvrene  
Concen: 103.613 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

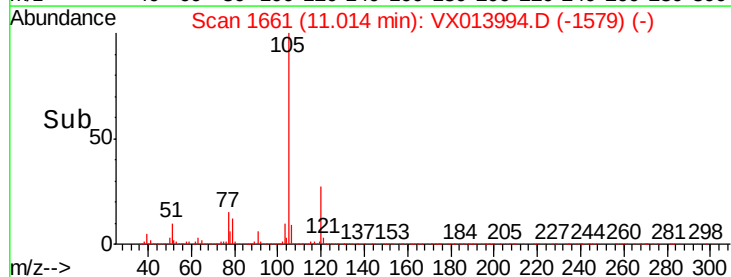
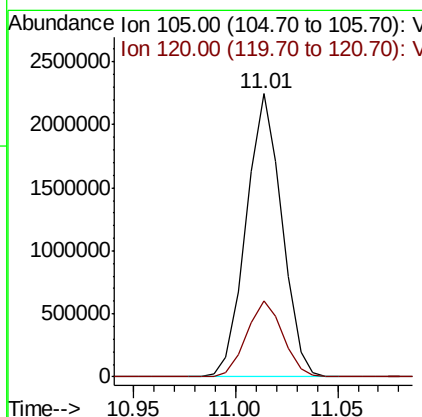
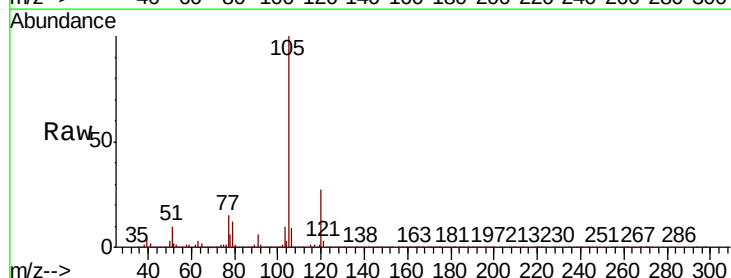
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

Tot Ion:104 Resp: 1832137  
Ion Ratio Lower Upper  
104 100  
78 48.8 38.9 58.3  
103 54.3 44.2 66.2

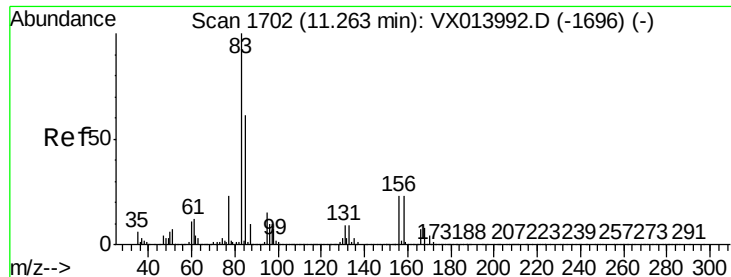


#70  
Isopropylbenzene  
Concen: 100.340 ug/l  
RT: 11.01 min Scan# 1661  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion:105 Resp: 2735416  
Ion Ratio Lower Upper  
105 100  
120 27.1 19.1 35.5



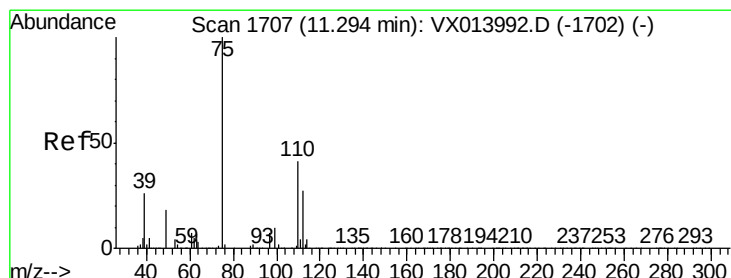
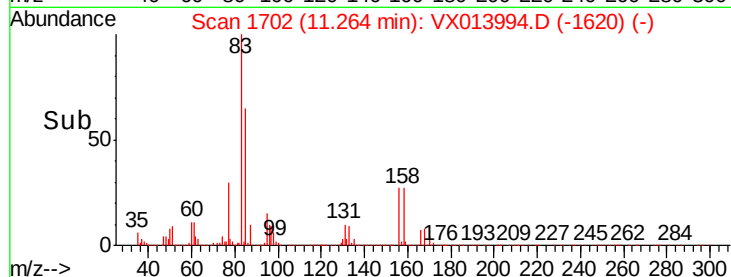
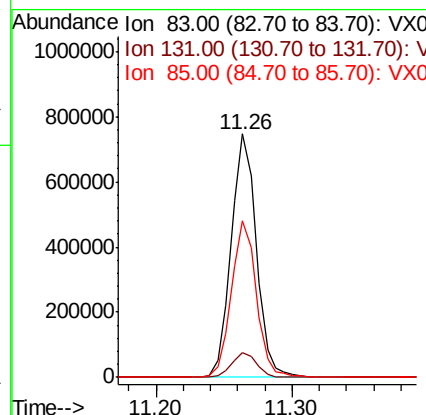
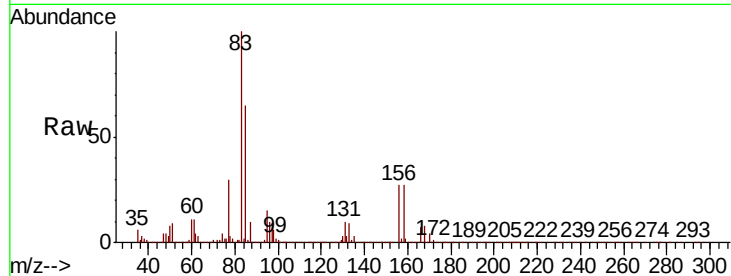




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 98.275 ug/l  
 RT: 11.26 min Scan# 1702  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

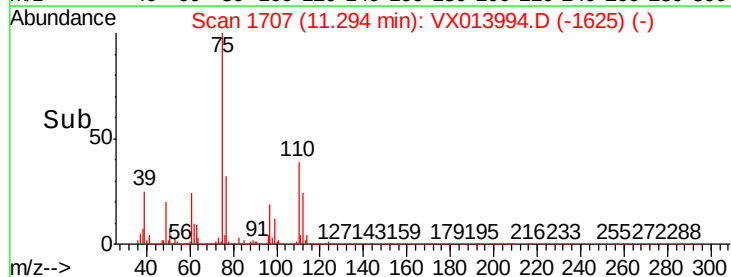
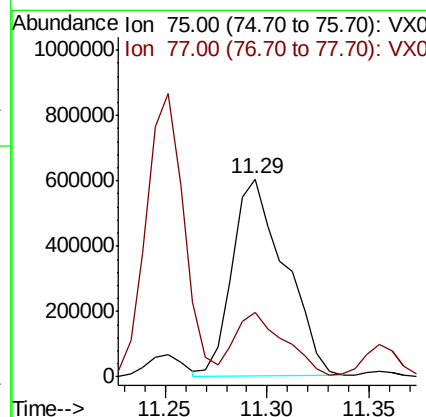
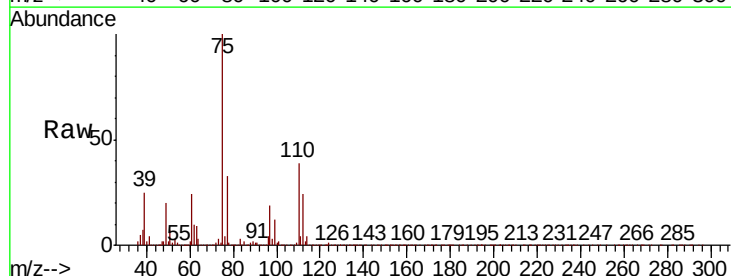
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

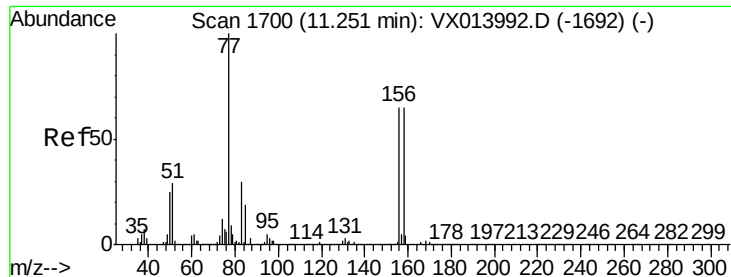
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 10.1  | 4.9   | 14.7  |
| 85      | 64.1  | 31.6  | 94.7  |



#72  
 1,2,3-Trichloropropane  
 Concen: 127.882 ug/l  
 RT: 11.29 min Scan# 1707  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 29.2  | 0.0   | 68.4  |





#73

Bromobenzene

Concen: 100.877 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

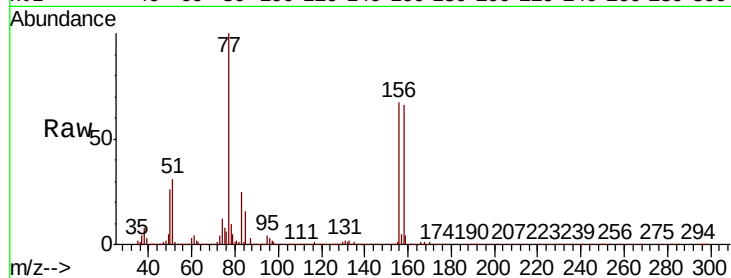
Tot Ion:156 Resp: 727816

Ion Ratio Lower Upper

156 100

77 153.1 0.0 304.6

158 97.6 0.0 195.2

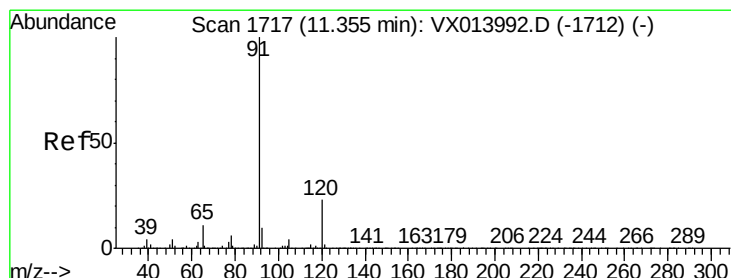
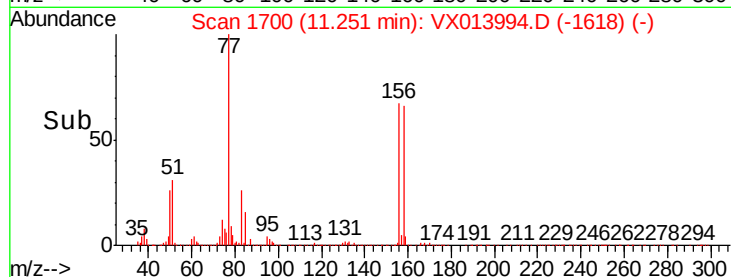
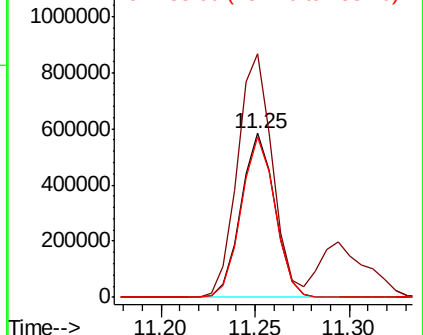


Abundance

Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 101.450 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX013994.D

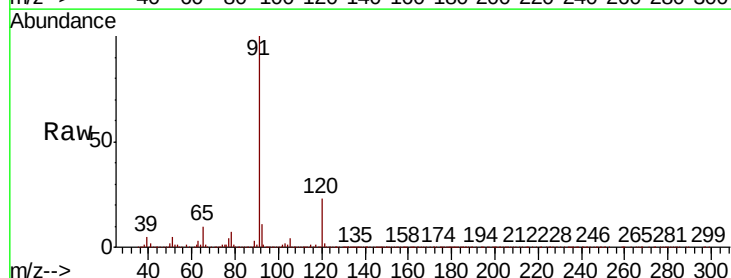
Acq: 13 Dec 2019 00:07

Tgt Ion: 91 Resp: 3143140

Ion Ratio Lower Upper

91 100

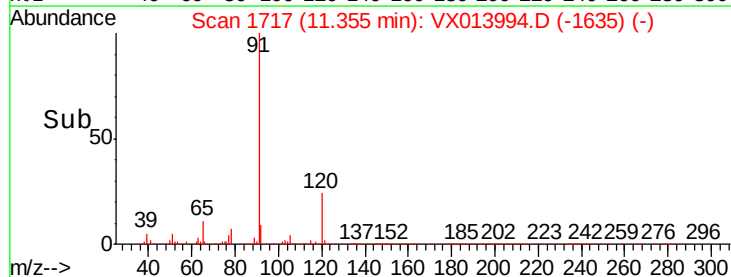
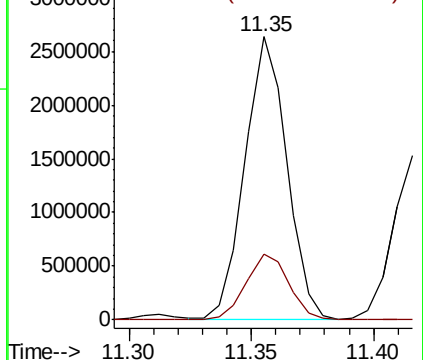
120 23.6 0.0 44.8

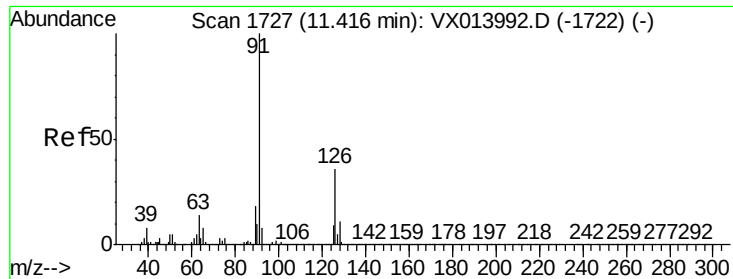


Abundance

Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 101.016 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

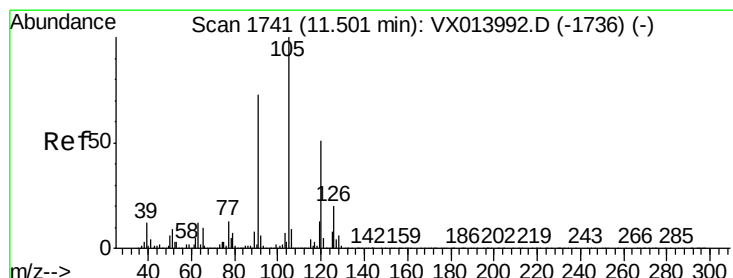
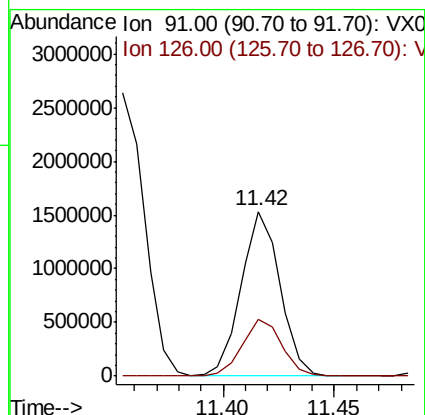
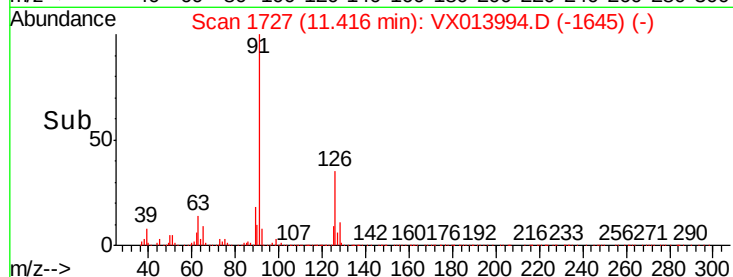
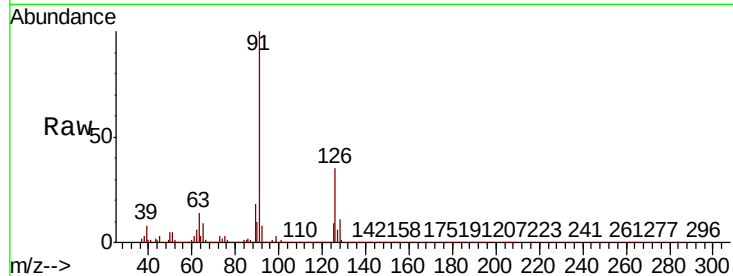
VSTDIC100

Tot Ion: 91 Resp: 1869191

Ion Ratio Lower Upper

91 100

126 35.1 0.0 70.8



#76

1,3,5-Trimethylbenzene

Concen: 102.094 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX013994.D

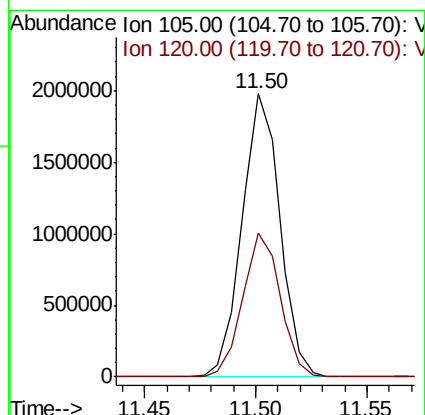
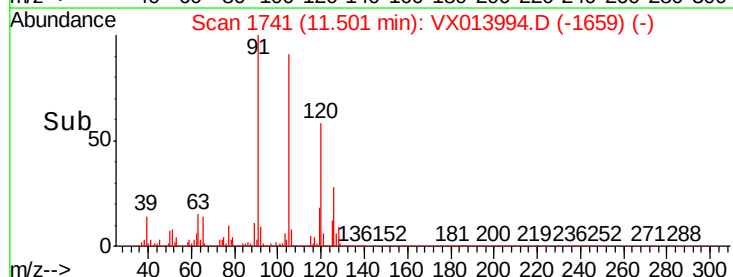
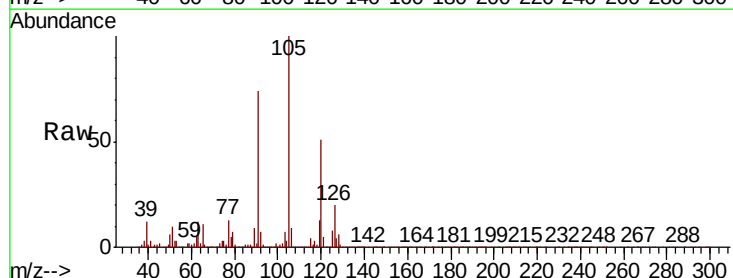
Acq: 13 Dec 2019 00:07

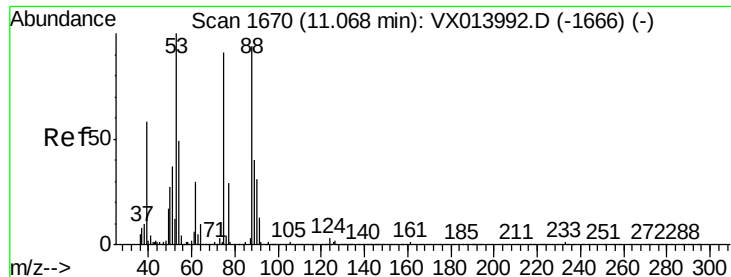
Tgt Ion: 105 Resp: 2344636

Ion Ratio Lower Upper

105 100

120 50.4 0.0 100.6





#77

t-1,4-Dichloro-2-butene

Concen: 98.597 ug/l

RT: 11.07 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

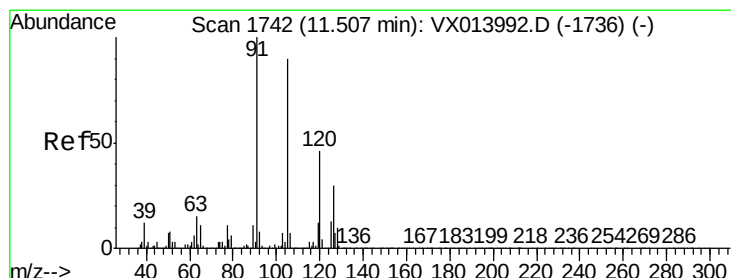
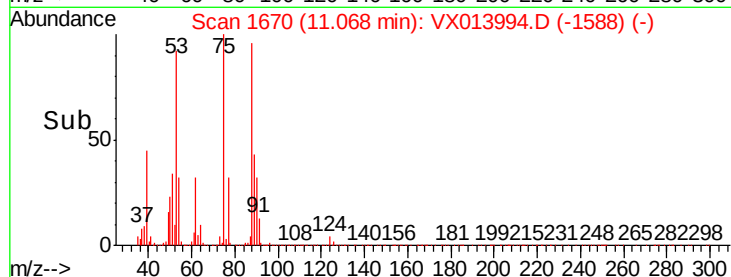
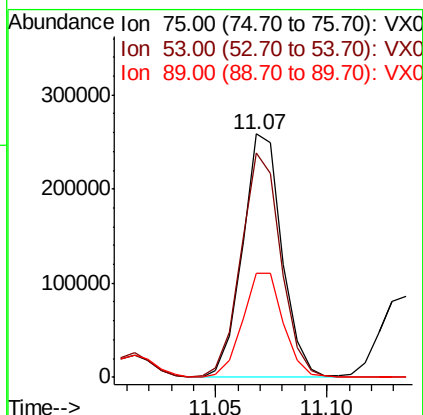
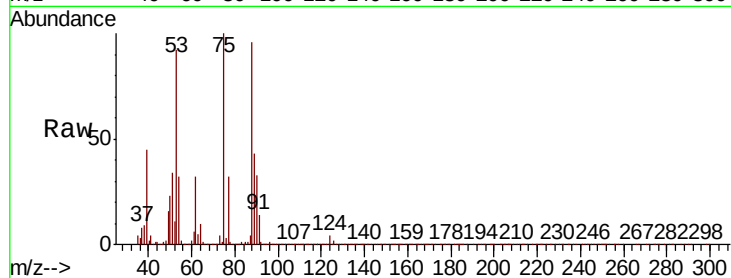
Tot Ion: 75 Resp: 317765

Ion Ratio Lower Upper

75 100

53 92.3 54.4 163.1

89 42.6 21.9 65.5



#78

4-Chlorotoluene

Concen: 102.462 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VX013994.D

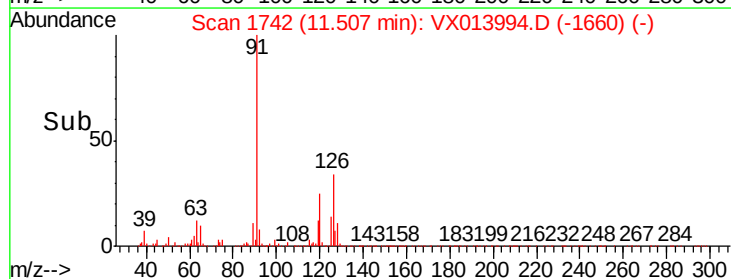
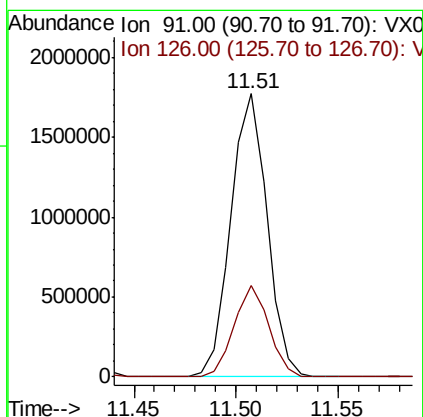
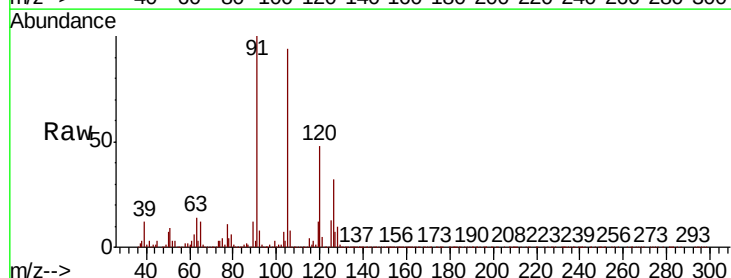
Acq: 13 Dec 2019 00:07

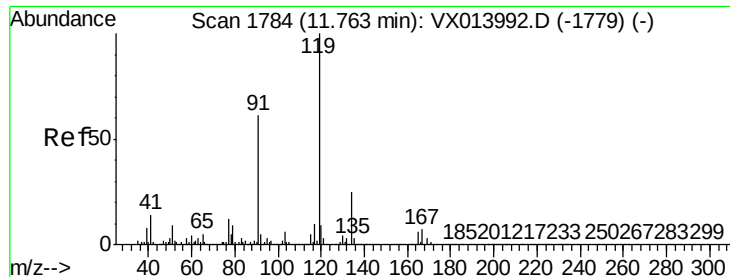
Tgt Ion: 91 Resp: 2173424

Ion Ratio Lower Upper

91 100

126 31.0 0.0 59.6





#79

tert-butylbenzene

Concen: 101.184 ug/l

RT: 11.77 min Scan# 1785

Delta R.T. 0.01 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

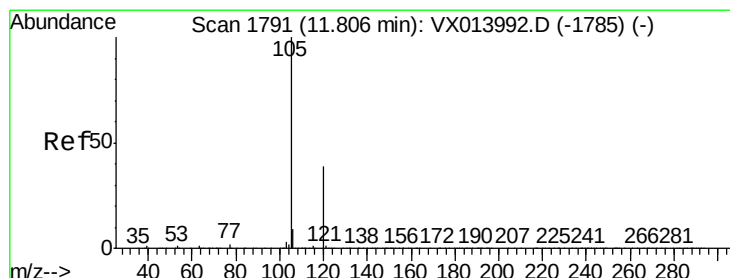
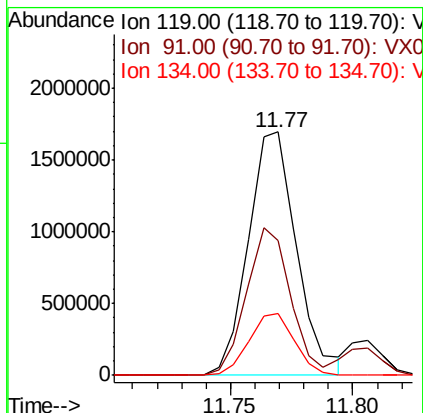
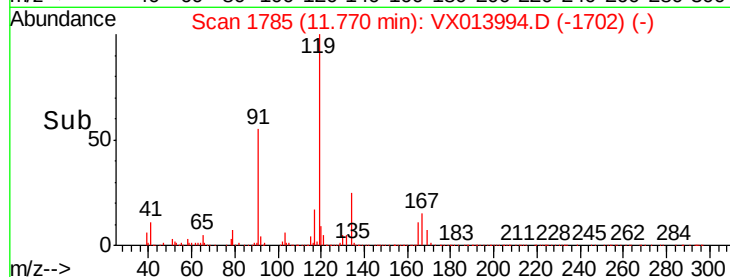
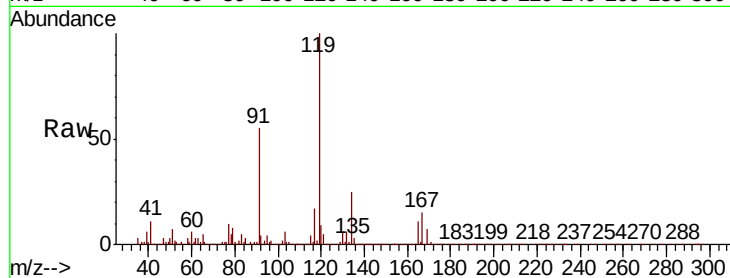
Tot Ion:119 Resp: 2324797

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 91  | 55.3  | 0.0   | 112.6 |
| 134 | 24.0  | 0.0   | 49.8  |

119 100

91 55.3 0.0 112.6

134 24.0 0.0 49.8



#80

1,2,4-Trimethylbenzene

Concen: 102.824 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX013994.D

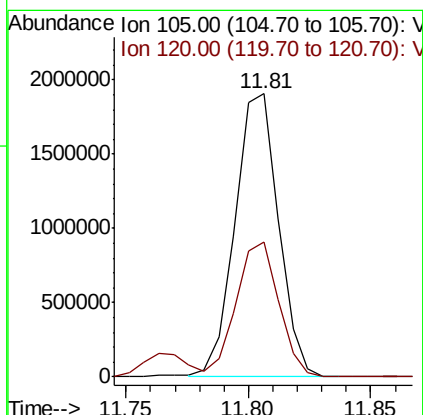
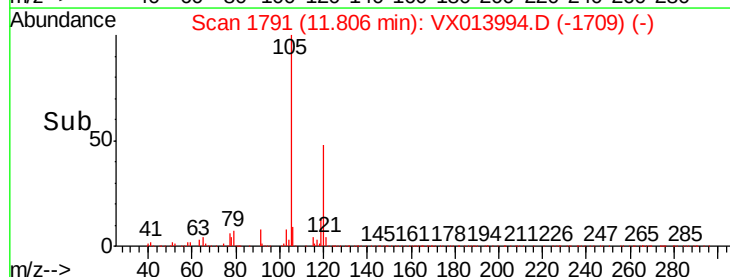
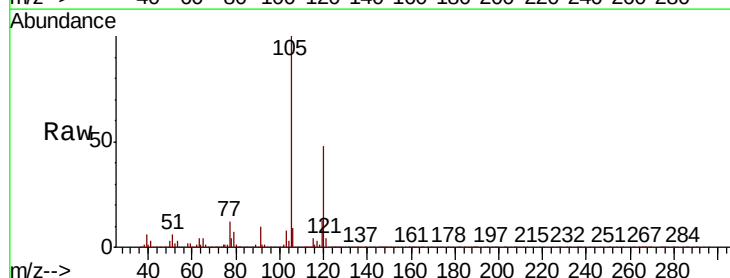
Acq: 13 Dec 2019 00:07

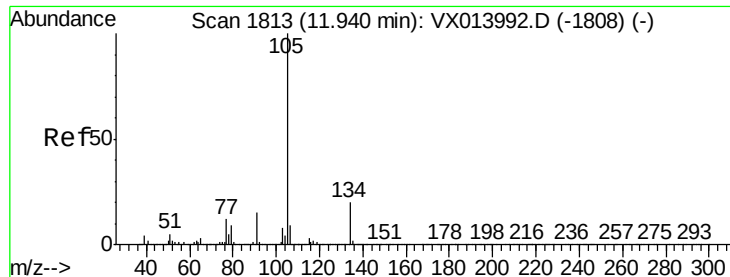
Tgt Ion:105 Resp: 2357693

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 46.8  | 0.0   | 92.0  |

105 100

120 46.8 0.0 92.0

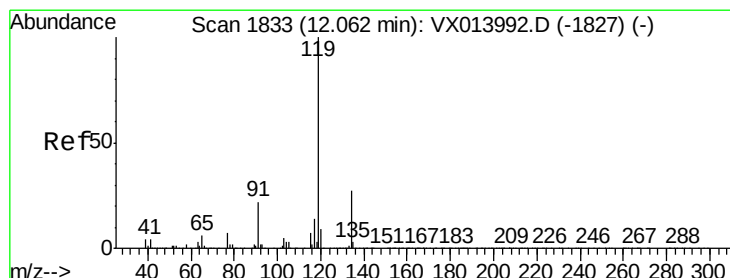
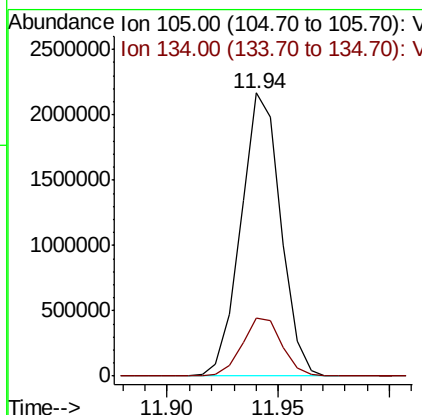
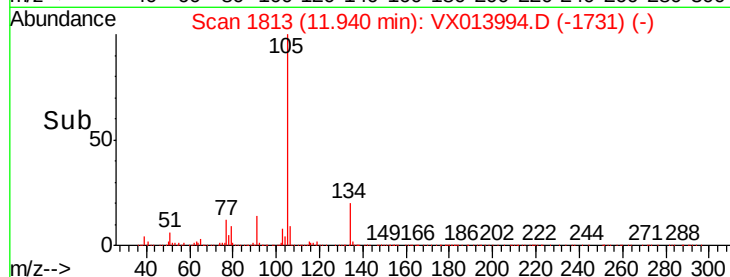
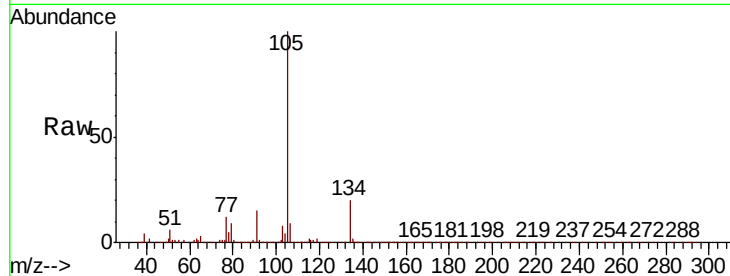




#81  
 sec-Butylbenzene  
 Concen: 102.242 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

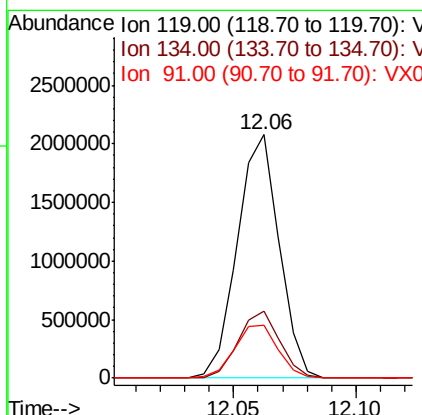
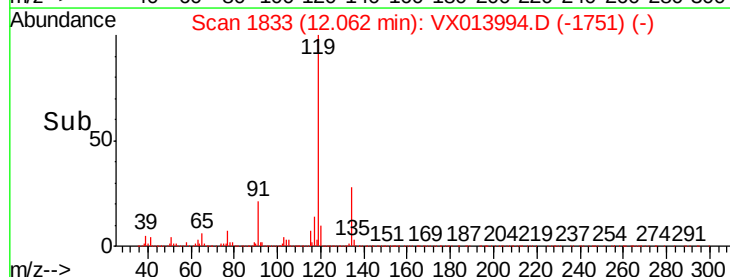
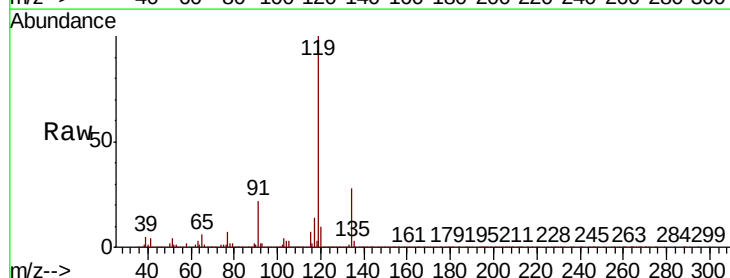
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

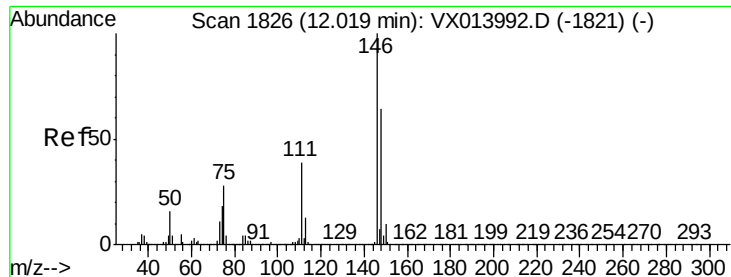
Tot Ion:105 Resp: 2701293  
 Ion Ratio Lower Upper  
 105 100  
 134 20.7 0.0 40.2



#82  
 p-Isopropyltoluene  
 Concen: 102.508 ug/l  
 RT: 12.06 min Scan# 1833  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

Tgt Ion:119 Resp: 2482136  
 Ion Ratio Lower Upper  
 119 100  
 134 27.2 0.0 53.8  
 91 22.6 0.0 45.0





#83

1,3-Dichlorobenzene

Concen: 102.482 ug/l

RT: 12.02 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

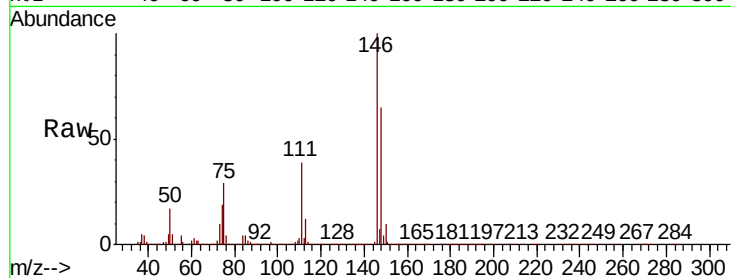
MSVOA\_X

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 1298304

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 38.0  | 19.3  | 57.9  |
| 148 | 64.4  | 32.2  | 96.6  |

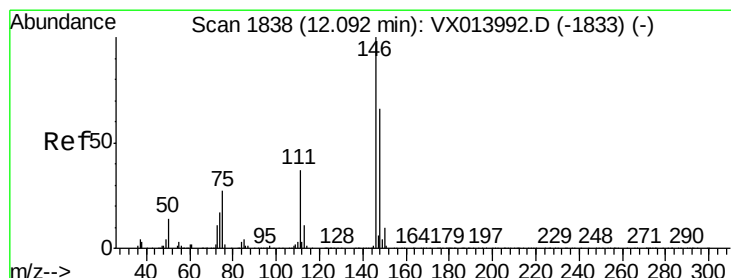
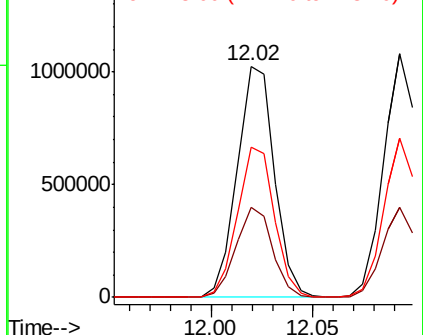
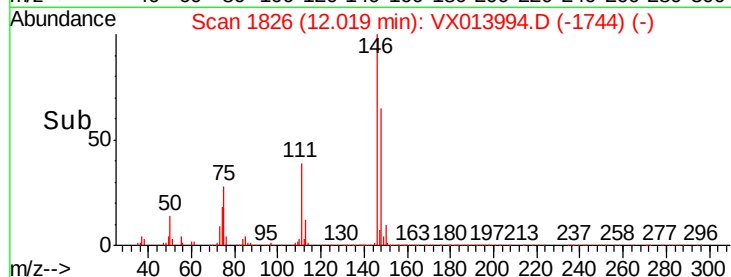


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 102.844 ug/l

RT: 12.09 min Scan# 1838

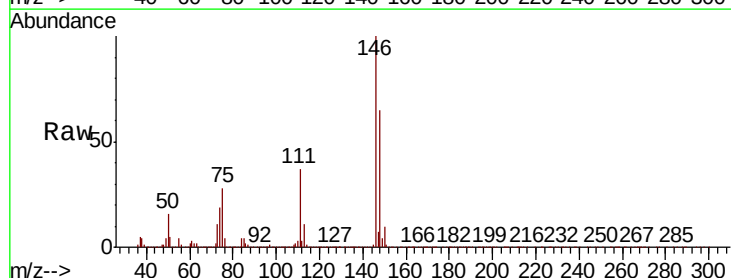
Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Tgt Ion:146 Resp: 1294976

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 36.5  | 18.4  | 55.4  |
| 148 | 64.1  | 32.0  | 96.0  |

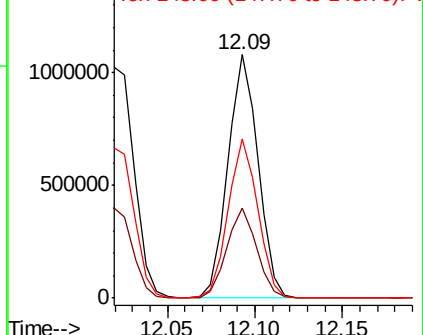
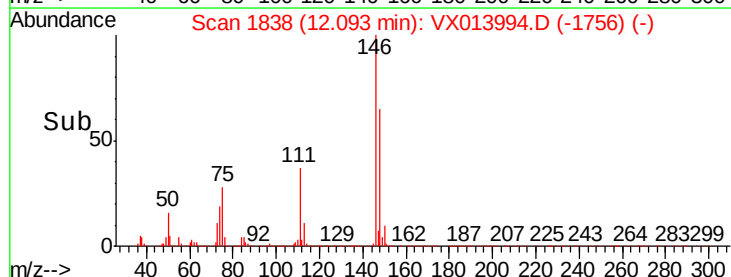


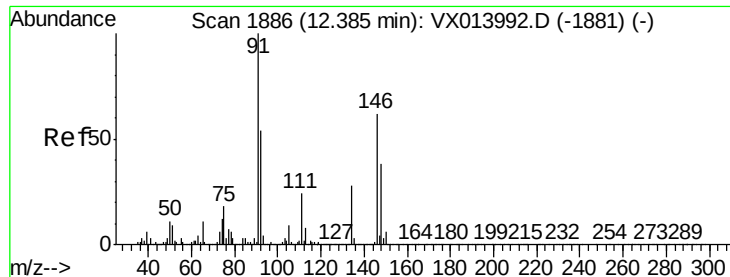
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

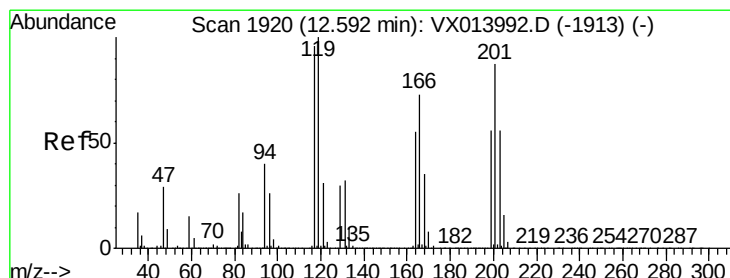
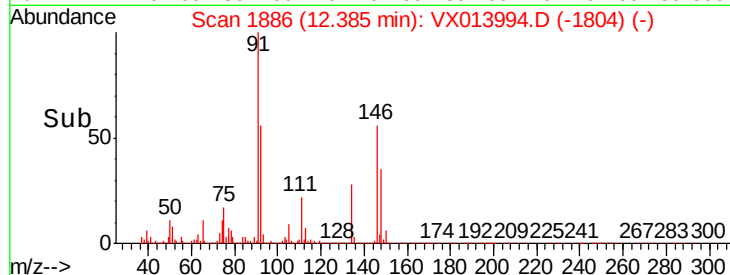
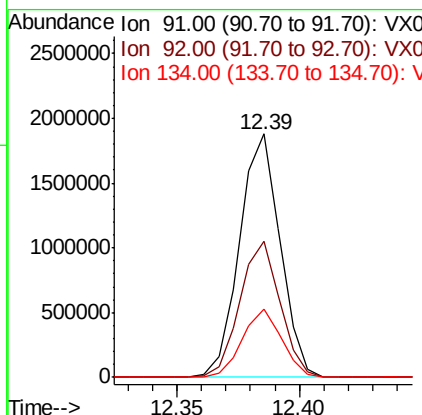
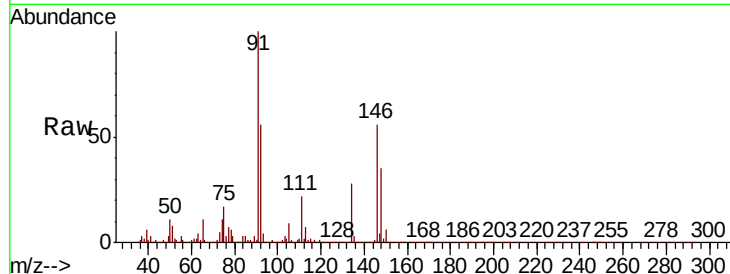




#85  
n-Butylbenzene  
Concen: 104.366 ug/l  
RT: 12.39 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

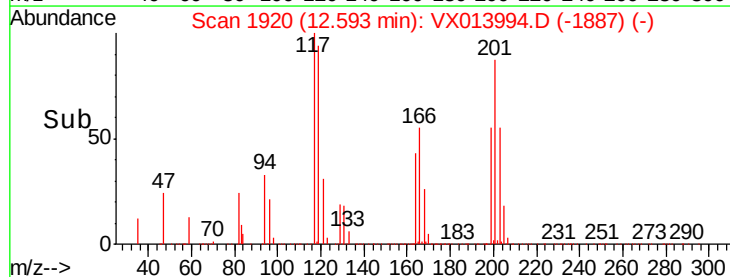
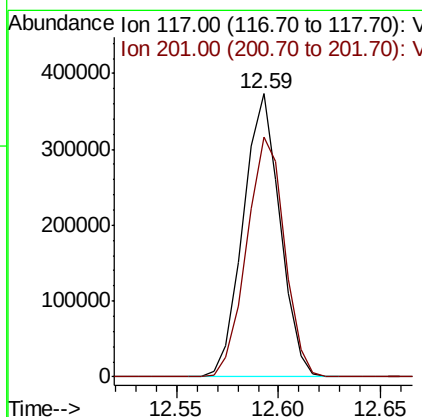
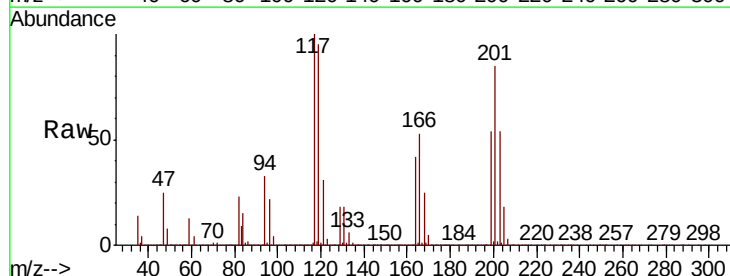
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

Tot Ion: 91 Resp: 2166389  
Ion Ratio Lower Upper  
91 100  
92 55.5 0.0 109.0  
134 27.2 0.0 54.0

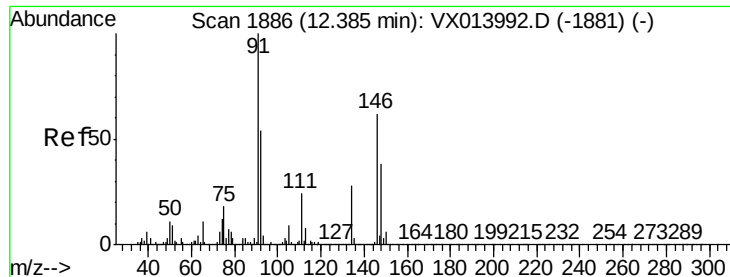


#86  
Hexachloroethane  
Concen: 105.892 ug/l  
RT: 12.59 min Scan# 1920  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion: 117 Resp: 468034  
Ion Ratio Lower Upper  
117 100  
201 87.1 44.8 134.3



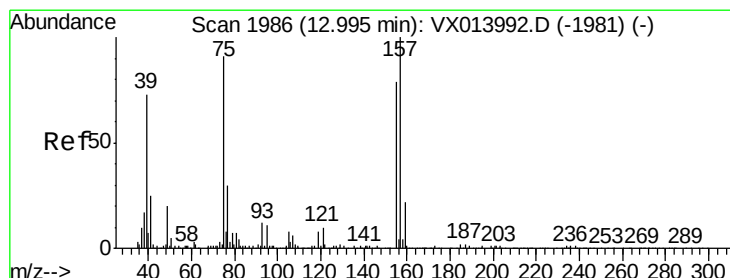
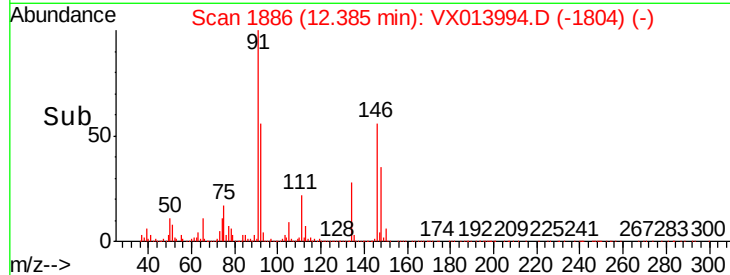
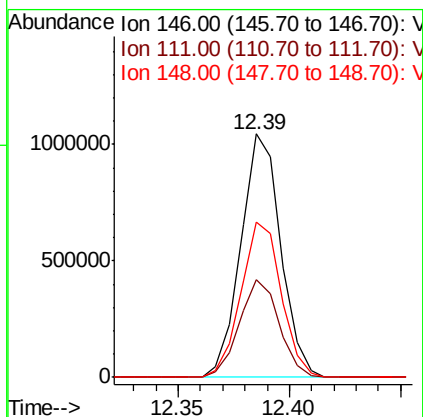
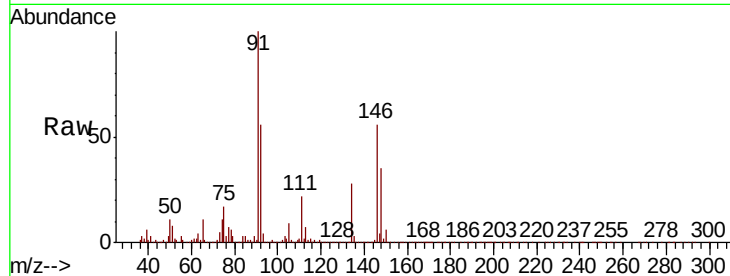




#87  
 1,2-Dichlorobenzene  
 Concen: 103.041 ug/l  
 RT: 12.39 min Scan# 1886  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

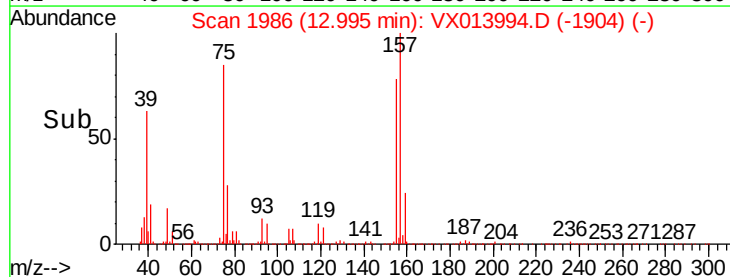
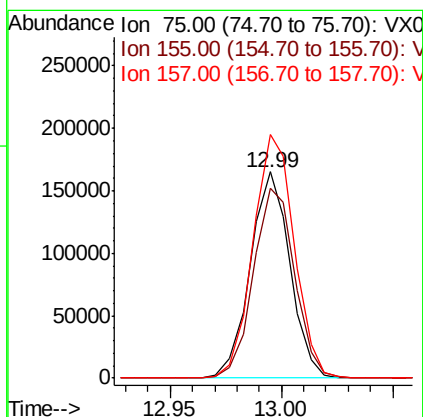
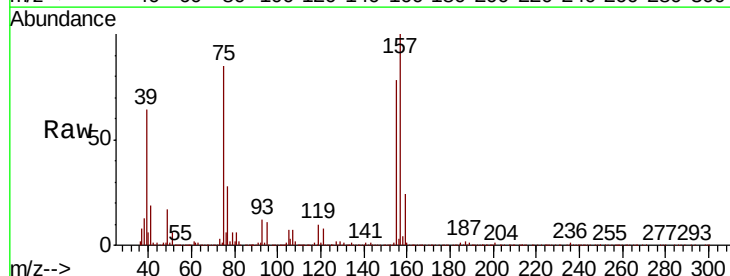
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

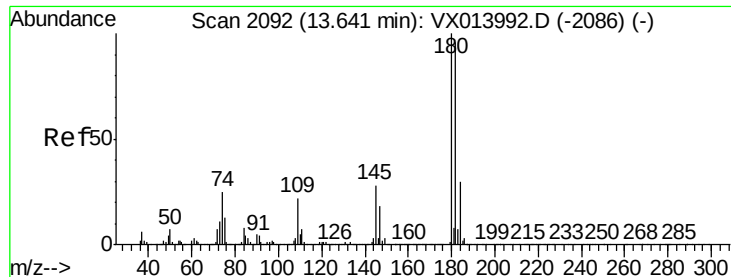
Tot Ion:146 Resp: 1304408  
 Ion Ratio Lower Upper  
 146 100  
 111 39.9 20.1 60.2  
 148 64.7 32.0 96.2



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 95.023 ug/l  
 RT: 12.99 min Scan# 1986  
 Delta R.T. 0.00 min  
 Lab File: VX013994.D  
 Acq: 13 Dec 2019 00:07

Tgt Ion: 75 Resp: 204513  
 Ion Ratio Lower Upper  
 75 100  
 155 95.6 73.8 110.6  
 157 122.6 95.0 142.4





#89

1,2,4-Trichlorobenzene

Concen: 104.513 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

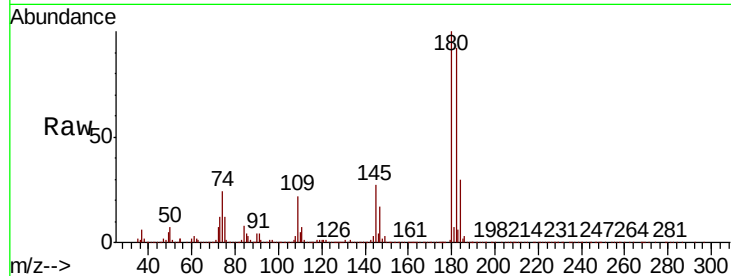
Tot Ion:180 Resp: 898051

Ion Ratio Lower Upper

180 100

182 95.6 76.4 114.6

145 27.6 21.9 32.9

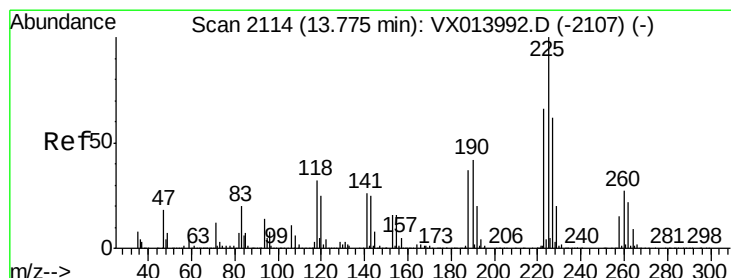
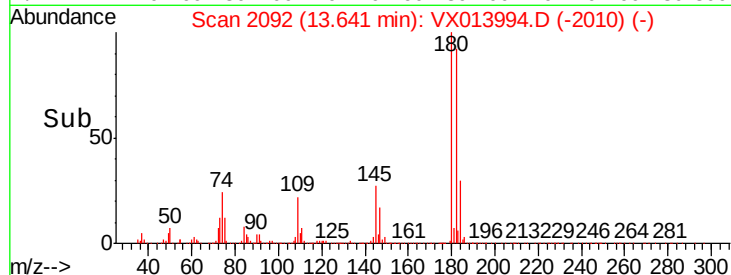
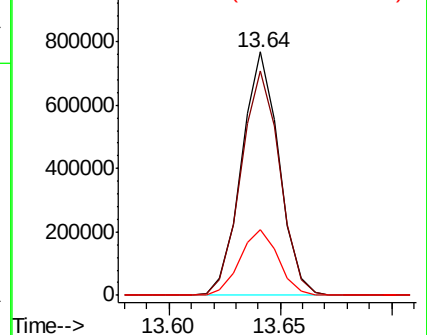


Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90

Hexachlorobutadiene

Concen: 97.297 ug/l

RT: 13.78 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VX013994.D

Acq: 13 Dec 2019 00:07

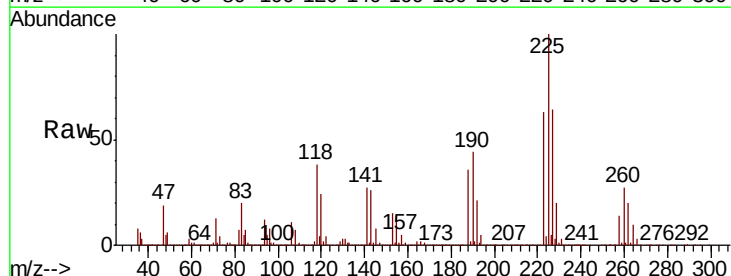
Tgt Ion:225 Resp: 402404

Ion Ratio Lower Upper

225 100

223 62.8 0.0 127.4

227 64.1 0.0 122.8

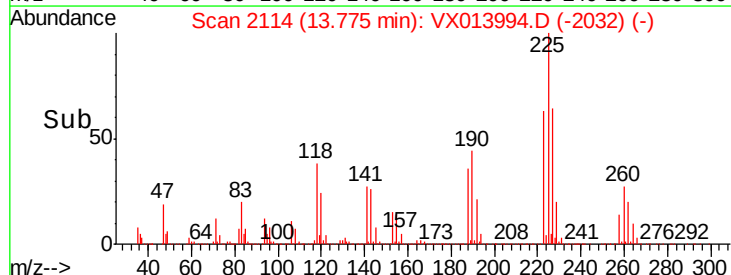
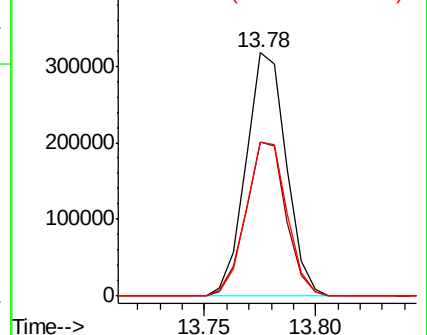


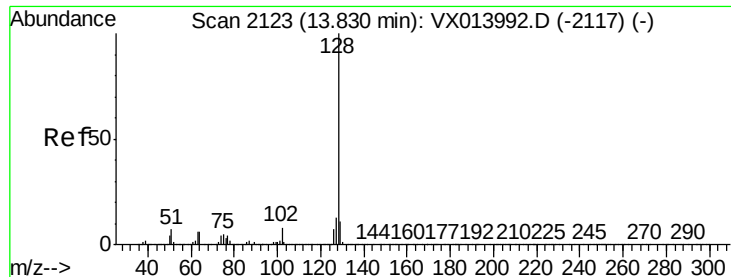
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V

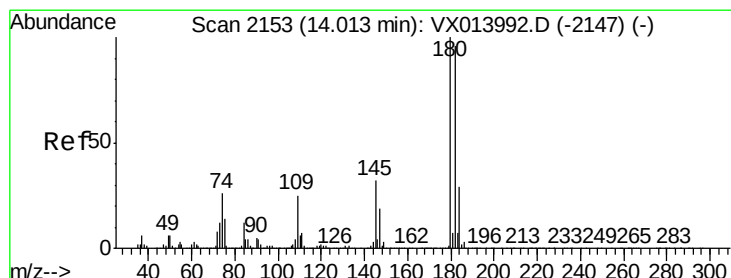
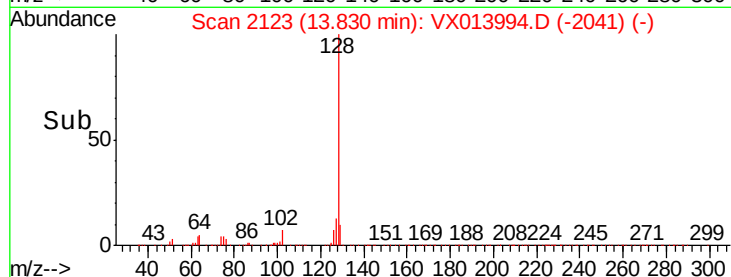
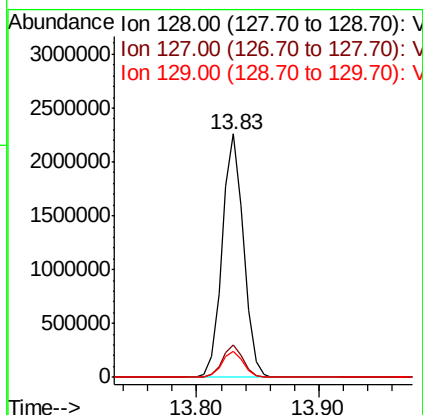
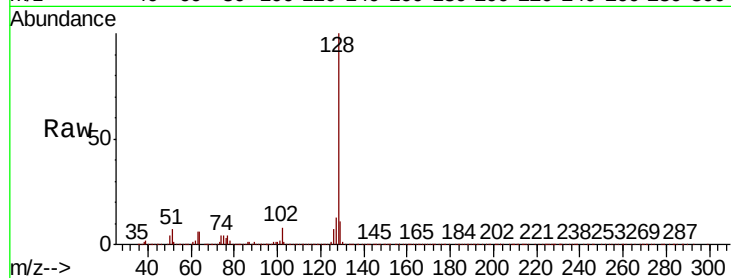




#91  
Naphthalene  
Concen: 101.157 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

Tot Ion:128 Resp: 2723544  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.4 15.6  
129 10.9 8.9 13.3



#92  
1,2,3-Trichlorobenzene  
Concen: 103.058 ug/l  
RT: 14.01 min Scan# 2153  
Delta R.T. 0.00 min  
Lab File: VX013994.D  
Acq: 13 Dec 2019 00:07

Tgt Ion:180 Resp: 892994  
Ion Ratio Lower Upper  
180 100  
182 94.4 0.0 192.8  
145 29.9 0.0 60.0

