

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112719\  
 Data File : VD064396.D  
 Acq On : 27 Nov 2019 15:07  
 Operator : VA/SY  
 Sample : VSTDIC020  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 29 07:24:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 29 07:18:03 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 494602   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 699645   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 602739   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 290507   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 78445    | 17.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 35.04% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 83021    | 18.83 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 37.66% |          |
| 50) Toluene-d8              | 10.34 | 98   | 312981   | 18.85 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 37.70% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 100208   | 18.78 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 37.56% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85   | 95149    | 21.231 | ug/l   | 93     |
| 3) Chloromethane              | 2.21 | 50   | 114976   | 20.341 | ug/l   | 95     |
| 4) Vinyl Chloride             | 2.35 | 62   | 139427   | 21.363 | ug/l   | 100    |
| 5) Bromomethane               | 2.76 | 94   | 92166    | 19.096 | ug/l   | 96     |
| 6) Chloroethane               | 2.92 | 64   | 88876    | 20.374 | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.27 | 101  | 223231   | 20.575 | ug/l   | 95     |
| 8) Diethyl Ether              | 3.70 | 74   | 42630    | 18.908 | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101  | 94344    | 20.280 | ug/l   | 99     |
| 10) Methyl Iodide             | 4.30 | 142  | 99944    | 20.344 | ug/l   | 100    |
| 11) Tert butyl alcohol        | 5.26 | 59   | 23760    | 83.376 | ug/l # | 100    |
| 12) 1,1-Dichloroethene        | 4.06 | 96   | 92049    | 20.648 | ug/l   | 89     |
| 13) Acrolein                  | 3.93 | 56   | 33381    | 85.878 | ug/l   | 99     |
| 14) Allyl chloride            | 4.71 | 41   | 140889   | 20.250 | ug/l   | 97     |
| 15) Acrylonitrile             | 5.44 | 53   | 92820    | 94.148 | ug/l   | 100    |
| 16) Acetone                   | 4.17 | 43   | 83884    | 92.722 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.40 | 76   | 294790   | 20.878 | ug/l   | 97     |
| 18) Methyl Acetate            | 4.72 | 43   | 51000    | 19.326 | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73   | 189583   | 18.539 | ug/l   | 99     |
| 20) Methylene Chloride        | 4.97 | 84   | 96258    | 18.104 | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96   | 102614   | 20.349 | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.37 | 45   | 255415   | 18.596 | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.31 | 43   | 750187   | 92.648 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.27 | 63   | 160118   | 19.385 | ug/l   | 96     |
| 25) 2-Butanone                | 7.23 | 43   | 122531   | 95.771 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 7.21 | 77   | 144784   | 20.156 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96   | 104654   | 19.036 | ug/l   | 98     |
| 28) Bromochloromethane        | 7.55 | 49   | 28420    | 10.068 | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.57 | 42   | 73320    | 90.074 | ug/l   | 98     |
| 30) Chloroform                | 7.71 | 83   | 172850   | 20.206 | ug/l   | 96     |
| 31) Cyclohexane               | 7.98 | 56   | 160130   | 19.397 | ug/l # | 93     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97   | 158800   | 20.023 | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75   | 138186   | 20.881 | ug/l   | 100    |
| 37) Ethyl Acetate             | 7.31 | 43   | 56701    | 20.193 | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.10 | 117  | 144941   | 20.752 | ug/l   | 97     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 169165   | 20.607  | ug/l   | 96       |
| 40) Benzene                    | 8.35  | 78   | 364564   | 19.835  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.53  | 41   | 33174    | 20.600  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 101311   | 18.901  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 106189   | 19.233  | ug/l   | 100      |
| 44) Trichloroethene            | 9.11  | 130  | 110248   | 19.913  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 87837    | 19.982  | ug/l   | 99       |
| 46) Dibromomethane             | 9.48  | 93   | 46746    | 18.842  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.67  | 83   | 126672   | 19.871  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.46  | 41   | 50391    | 19.946  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 12980    | 423.683 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 263742   | 96.546  | ug/l   | 98       |
| 52) Toluene                    | 10.40 | 92   | 240610   | 20.087  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 115717   | 19.047  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 138573   | 19.200  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 65755    | 19.356  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 82058    | 18.939  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 112736   | 19.495  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 169736   | 98.271  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 184965   | 97.578  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 86996    | 18.888  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 65052    | 19.179  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.88 | 164  | 96605    | 21.018  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.67 | 112  | 255546   | 20.328  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 90742    | 19.499  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 451009   | 20.164  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 339453   | 39.803  | ug/l   | 97       |
| 69) o-Xylene                   | 12.18 | 106  | 156686   | 19.893  | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 272853   | 19.935  | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 53743    | 19.303  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 428825   | 20.524  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 92241    | 19.452  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 70015    | 20.264  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 90296    | 37.796  | ug/l # | 100      |
| 77) Bromobenzene               | 12.77 | 156  | 106435   | 20.629  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.83 | 91   | 509758   | 21.146  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 273068   | 20.586  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 345591   | 20.241  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 22746    | 20.761  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 280742   | 19.989  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 302381   | 20.371  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 341184   | 19.873  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 419819   | 20.607  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 387746   | 20.160  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 192791   | 19.687  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 187914   | 19.436  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 356170   | 20.391  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 74403    | 20.682  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 163857   | 19.579  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 10992    | 18.534  | ug/l   | 95       |

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Quant Title : SW846 8260  
QLast Update : Fri Nov 29 07:18:03 2019  
Response via : Initial Calibration

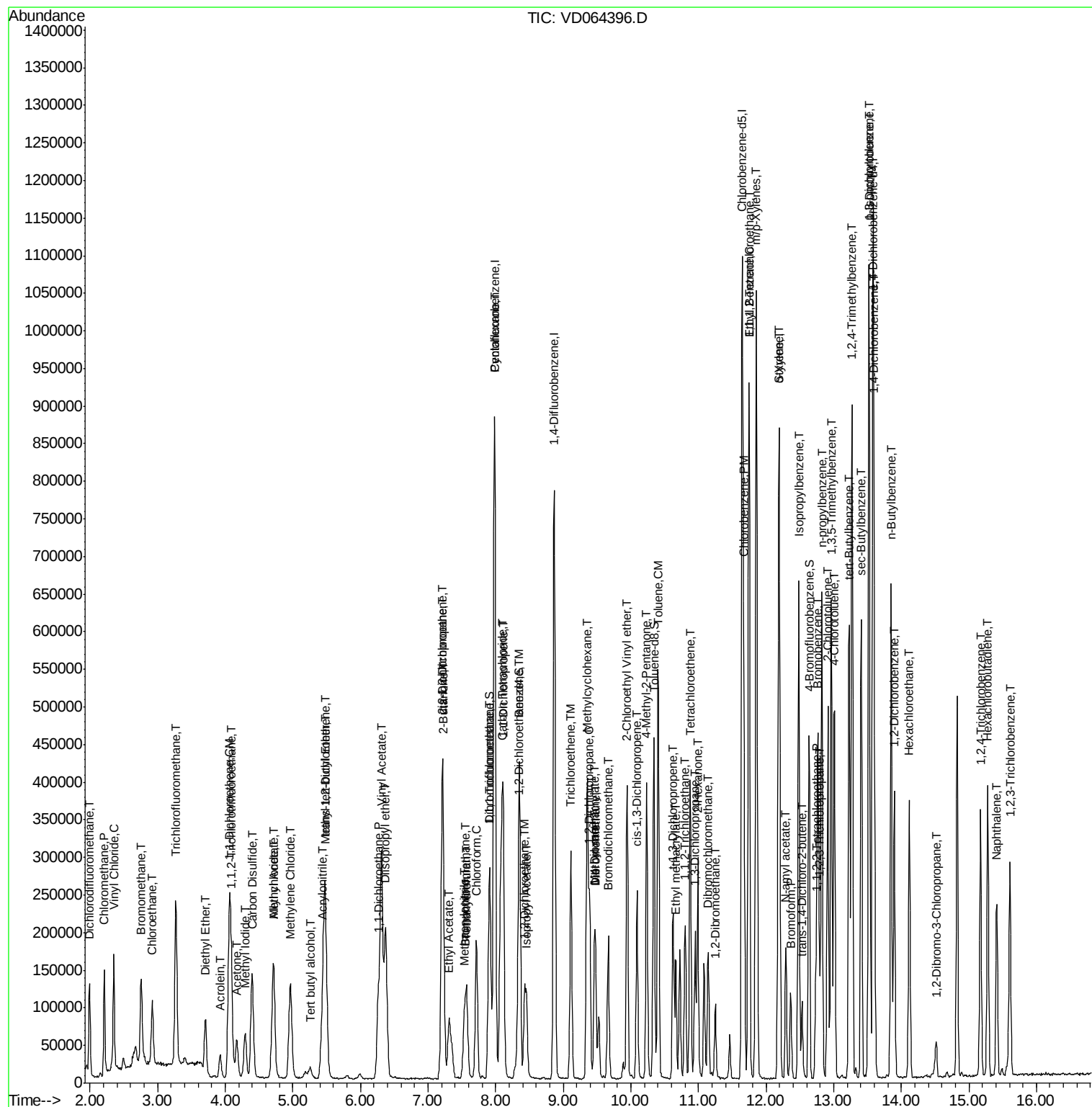
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 123470   | 19.264 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 81929    | 20.706 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 205824   | 19.242 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 105821   | 19.342 | ug/l  | 99       |

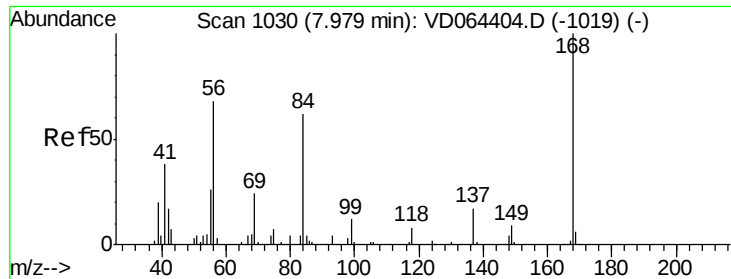
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD112719\  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

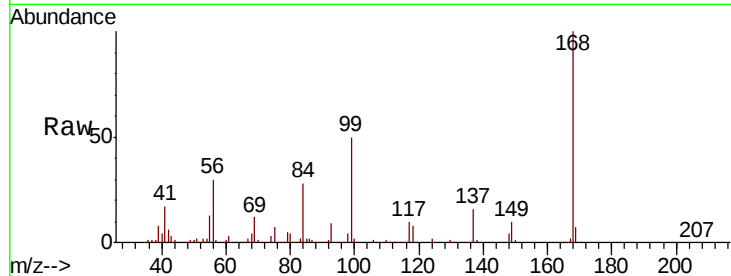
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 494602

Ion Ratio Lower Upper

168 100

99 50.2 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

150000

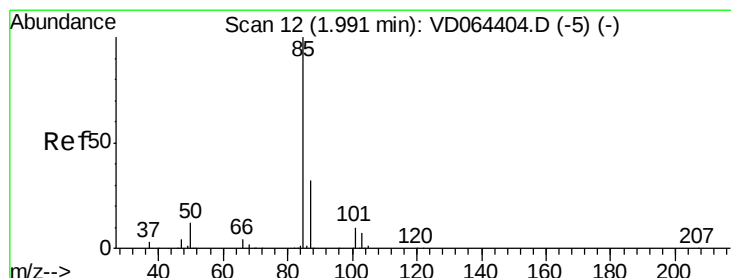
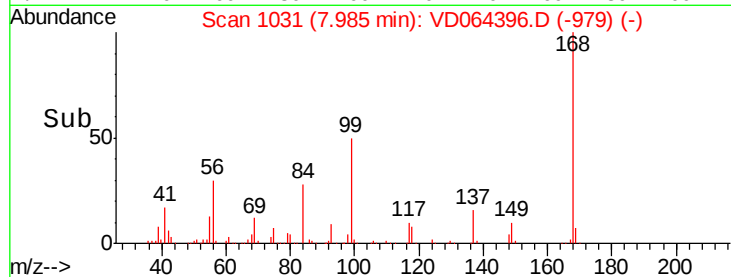
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.231 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD064396.D

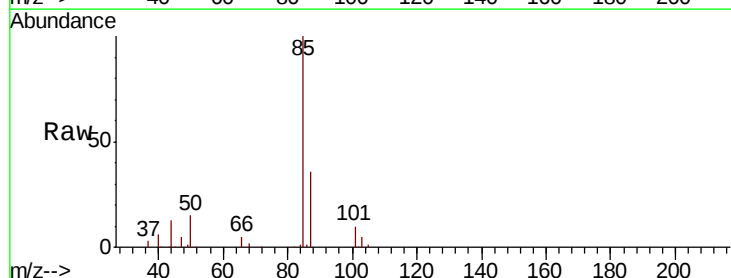
Acq: 27 Nov 2019 15:07

Tgt Ion: 85 Resp: 95149

Ion Ratio Lower Upper

85 100

87 36.0 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

60000

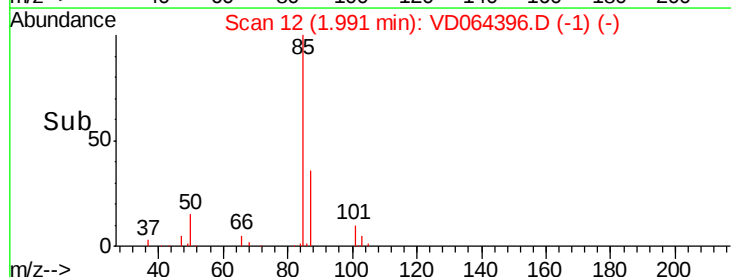
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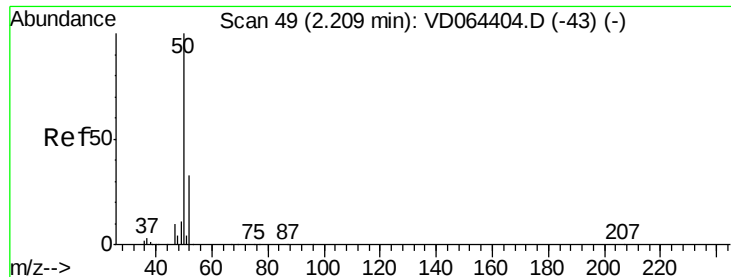
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0

1.90 1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 20.341 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

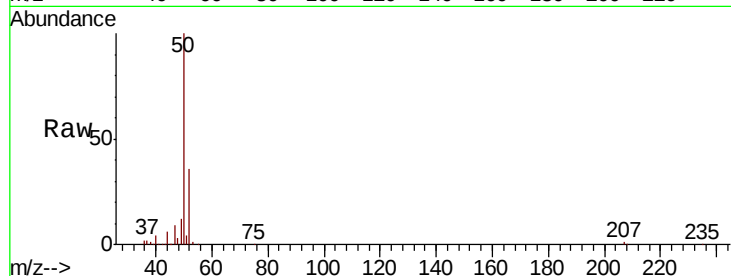
ClientSampleId :

Tot Ion: 50 Resp: 114976

Ion Ratio Lower Upper

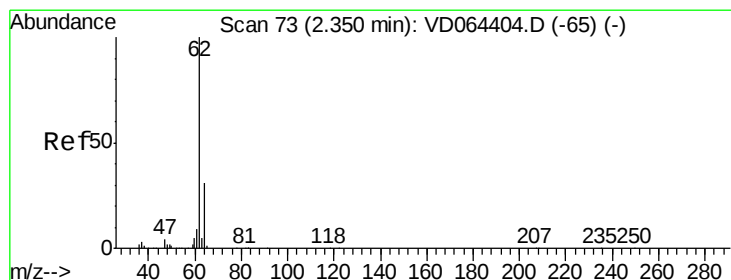
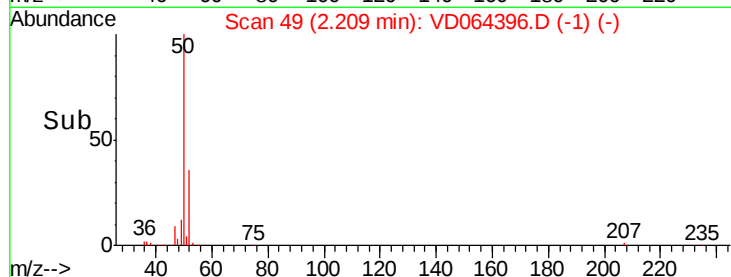
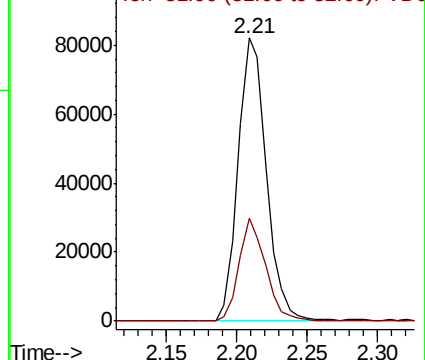
50 100

52 36.2 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.363 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD064396.D

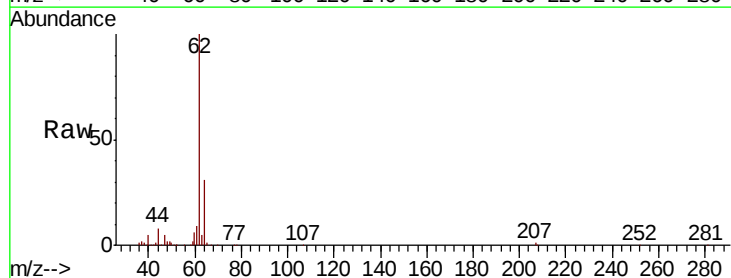
Acq: 27 Nov 2019 15:07

Tgt Ion: 62 Resp: 139427

Ion Ratio Lower Upper

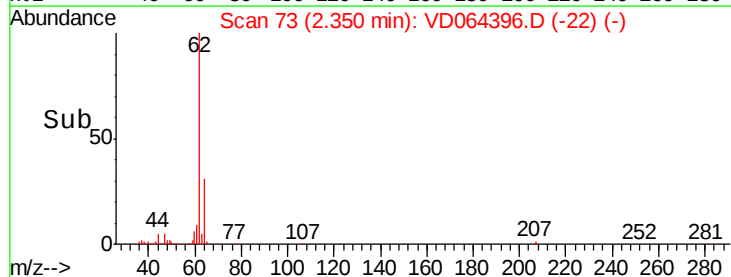
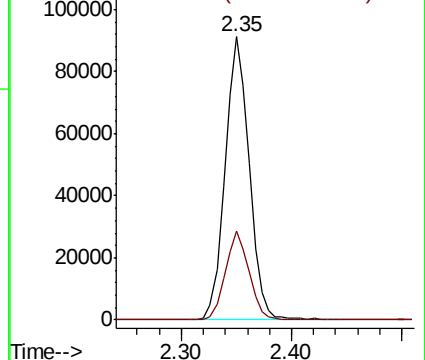
62 100

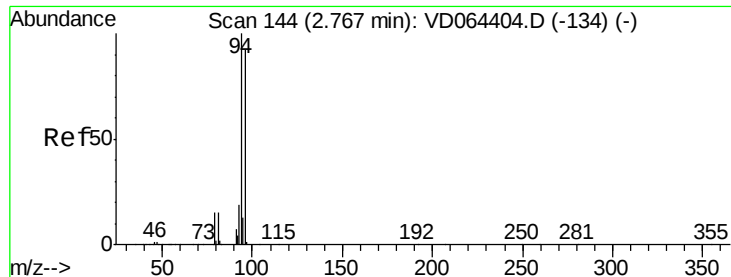
64 31.3 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 19.096 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

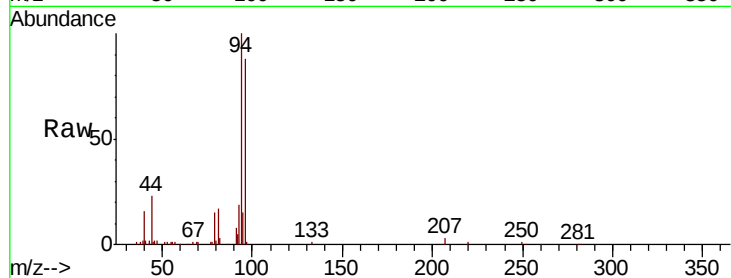
ClientSampleId :

Tot Ion: 94 Resp: 92166

Ion Ratio Lower Upper

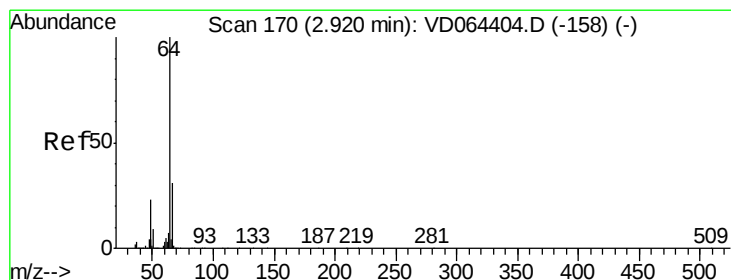
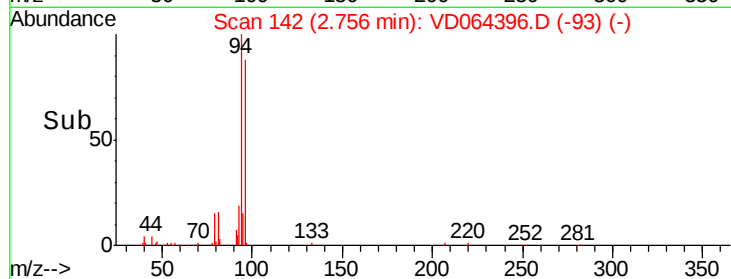
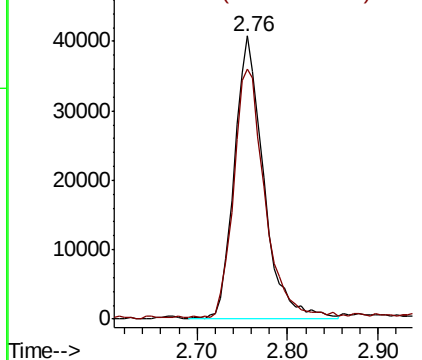
94 100

96 87.8 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 20.374 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.00 min

Lab File: VD064396.D

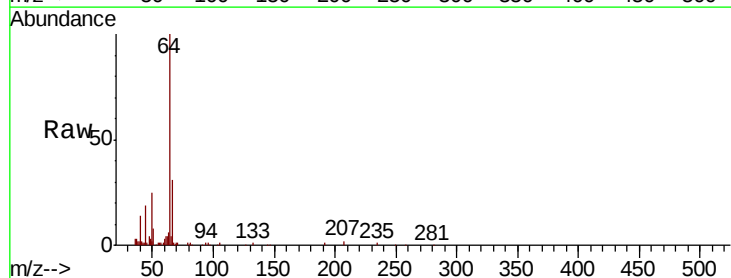
Acq: 27 Nov 2019 15:07

Tgt Ion: 64 Resp: 88876

Ion Ratio Lower Upper

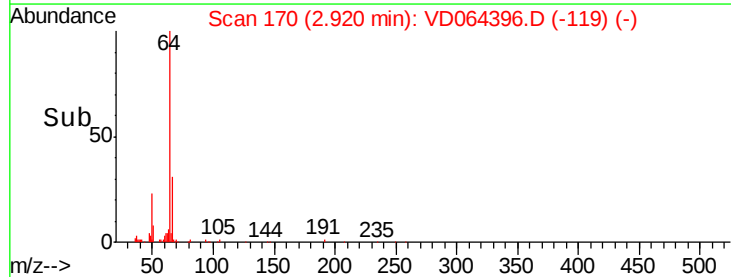
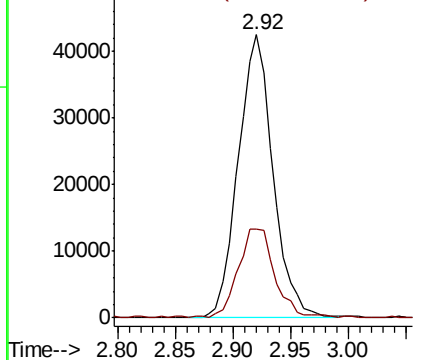
64 100

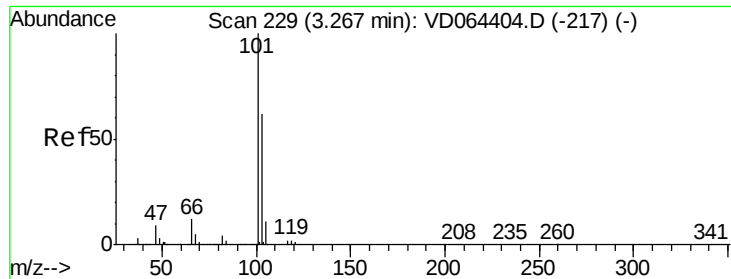
66 31.3 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



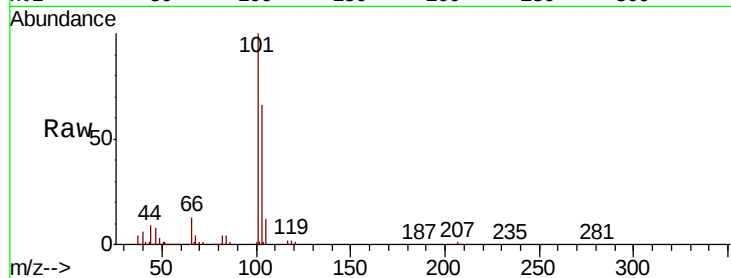


#7

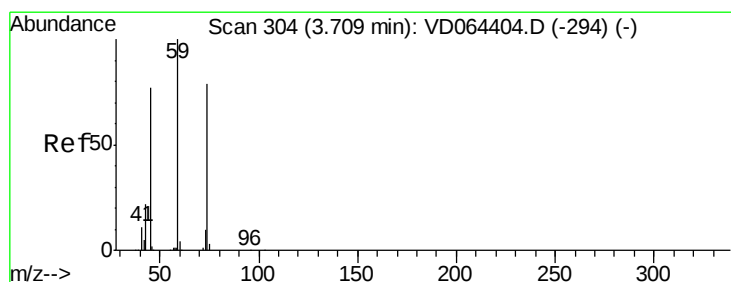
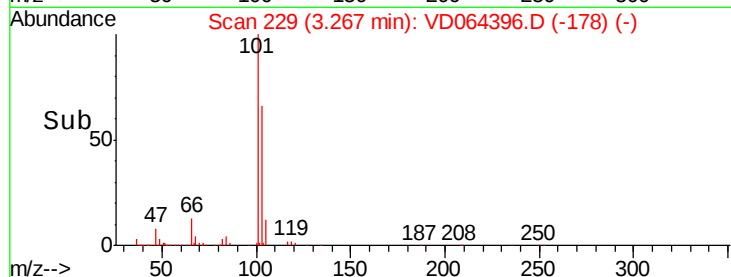
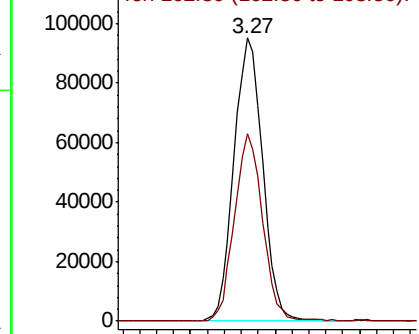
Trichlorofluoromethane  
Concen: 20.575 ug/l  
RT: 3.27 min Scan# 229  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:101 Resp: 223231  
Ion Ratio Lower Upper  
101 100  
103 66.1 49.8 74.6



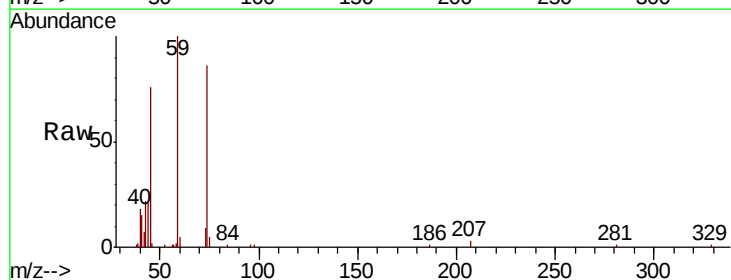
Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 102.80 (102.50 to 103.50): V



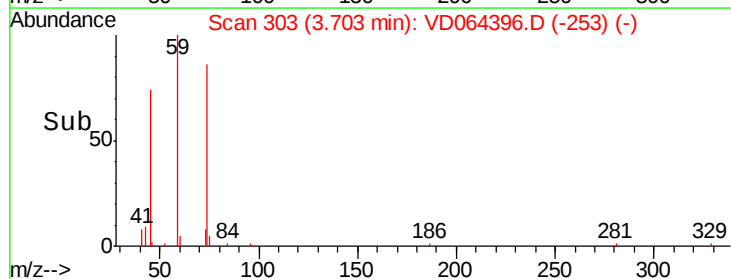
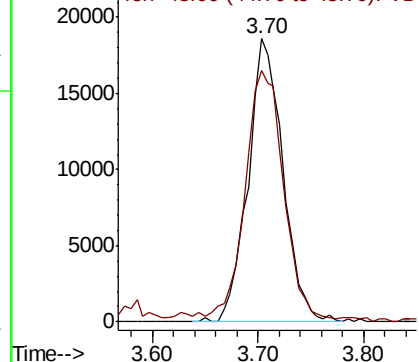
#8

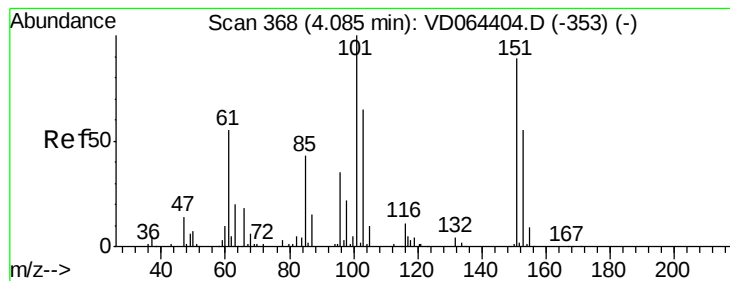
Diethyl Ether  
Concen: 18.908 ug/l  
RT: 3.70 min Scan# 303  
Delta R.T. -0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 74 Resp: 42630  
Ion Ratio Lower Upper  
74 100  
45 96.3 48.6 145.9



Abundance Ion 74.00 (73.70 to 74.70): VDC  
Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.280 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

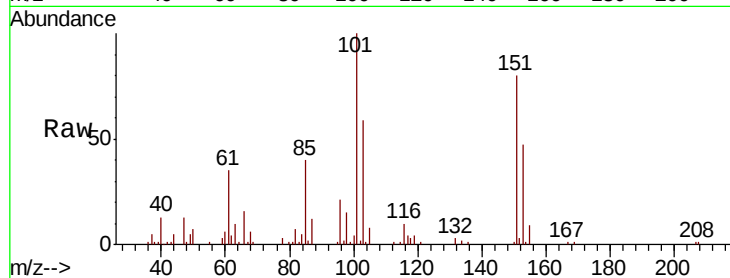
Tot Ion:101 Resp: 94344

Ion Ratio Lower Upper

101 100

85 44.1 34.8 52.2

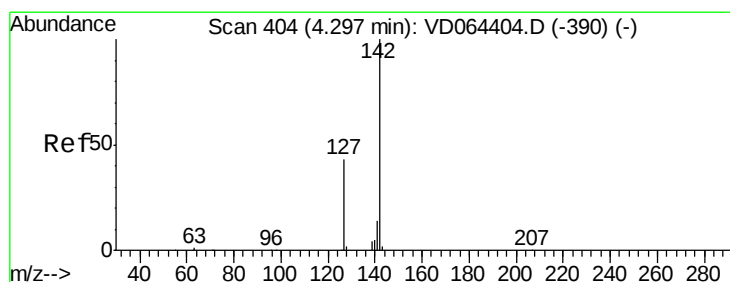
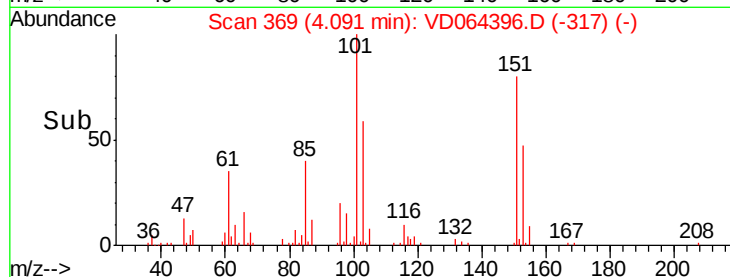
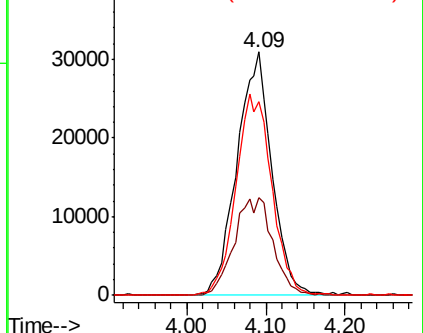
151 85.0 68.8 103.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.344 ug/l

RT: 4.30 min Scan# 404

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

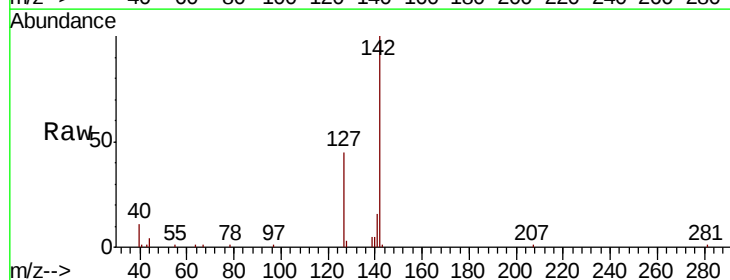
Tgt Ion:142 Resp: 99944

Ion Ratio Lower Upper

142 100

127 44.2 35.3 52.9

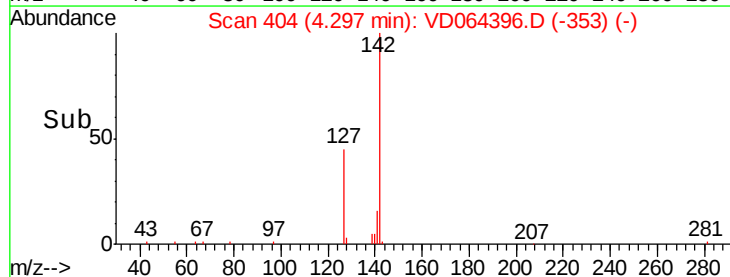
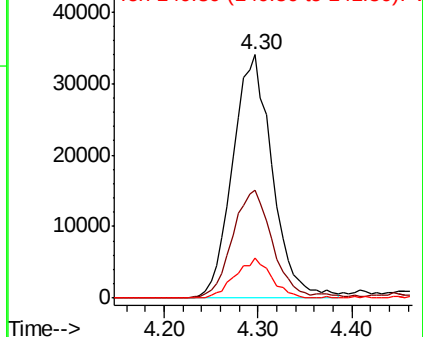
141 14.8 11.6 17.4

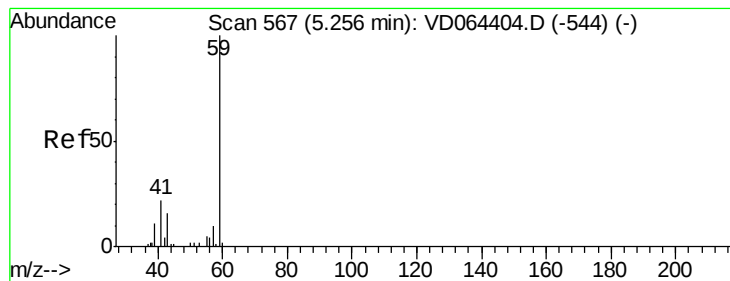


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



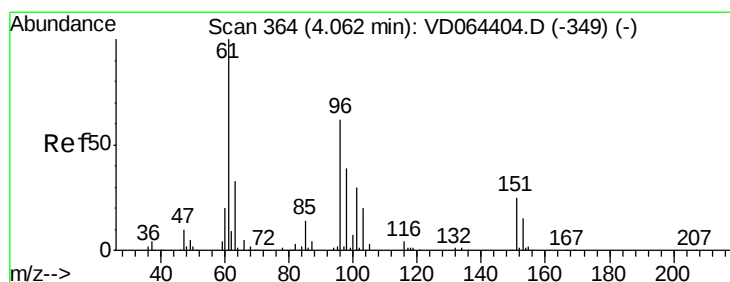
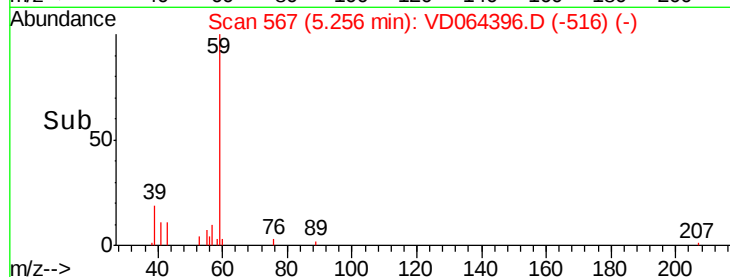
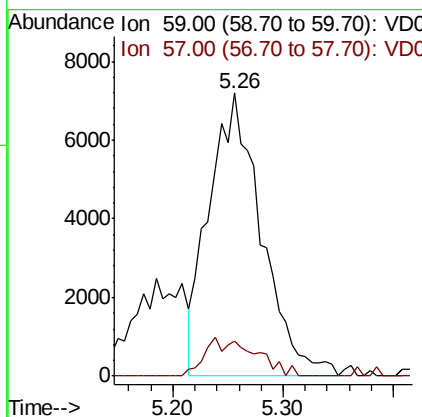
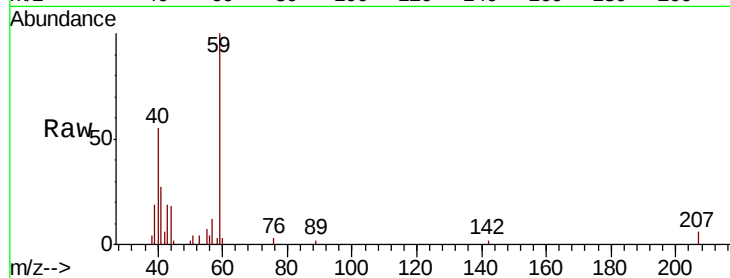


#11

Tert butyl alcohol  
Concen: 83.376 ug/l  
RT: 5.26 min Scan# 567  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Instrument :  
MSVOA\_D  
ClientSampleId :

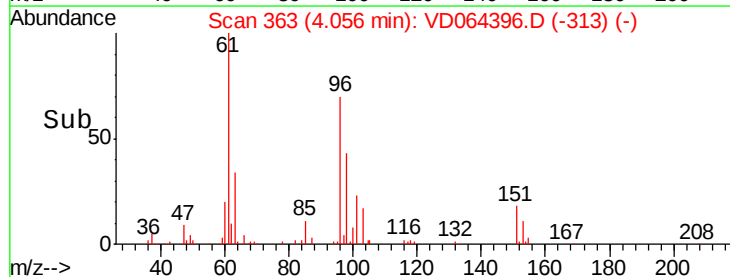
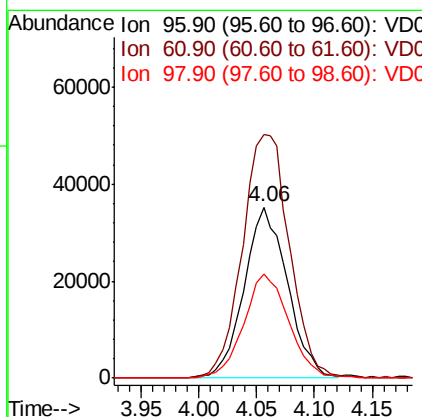
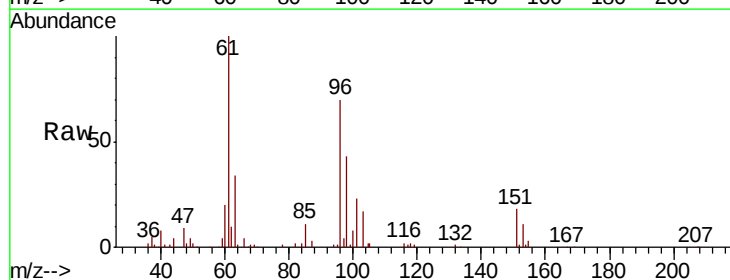
Tot Ion: 59 Resp: 23760  
Ion Ratio Lower Upper  
59 100  
57 0.0 0.0 0.0

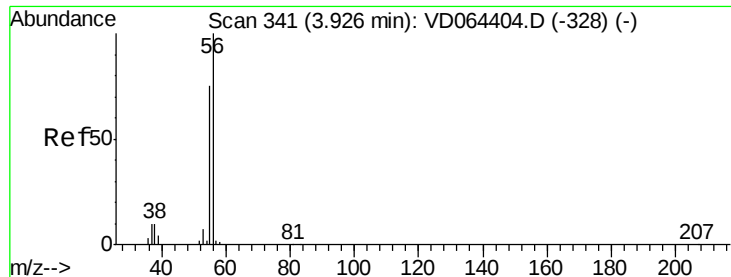


#12

1,1-Dichloroethene  
Concen: 20.648 ug/l  
RT: 4.06 min Scan# 363  
Delta R.T. -0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 96 Resp: 92049  
Ion Ratio Lower Upper  
96 100  
61 142.2 128.2 192.4  
98 60.5 50.4 75.6





#13

Acrolein

Concen: 85.878 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

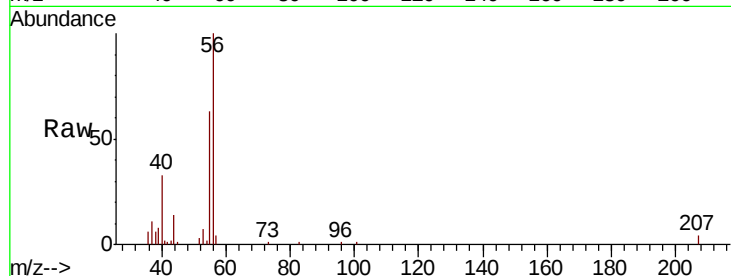
ClientSampleId :

Tot Ion: 56 Resp: 33381

Ion Ratio Lower Upper

56 100

55 70.5 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

15000

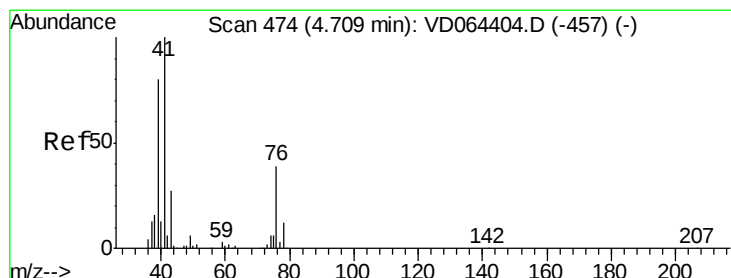
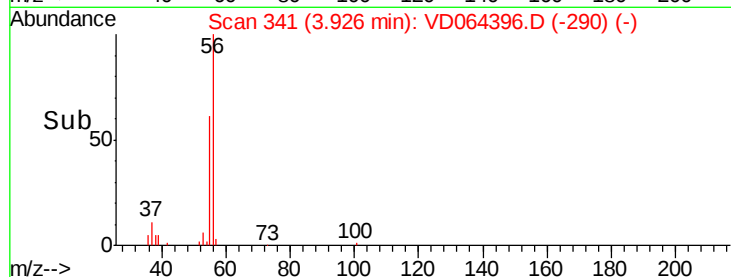
10000

5000

0

3.93

Time--> 3.80 3.90 4.00



#14

Allyl chloride

Concen: 20.250 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

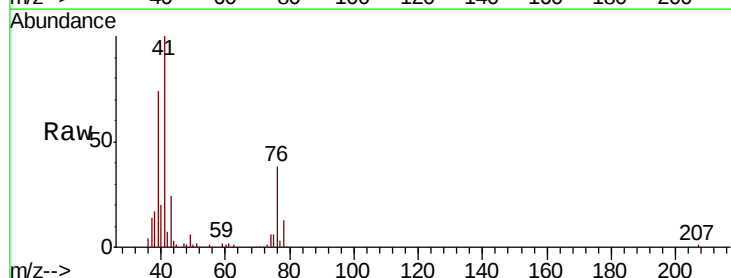
Tgt Ion: 41 Resp: 140889

Ion Ratio Lower Upper

41 100

39 74.1 62.1 93.1

76 38.3 29.8 44.8



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC

60000

50000

40000

30000

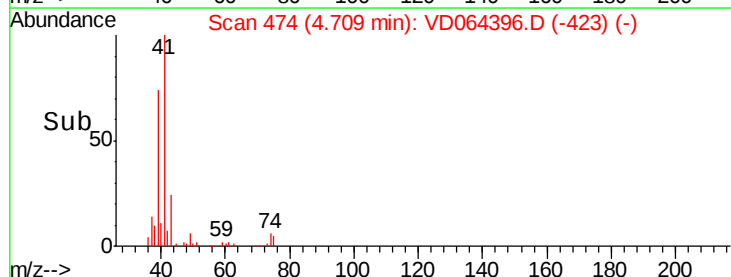
20000

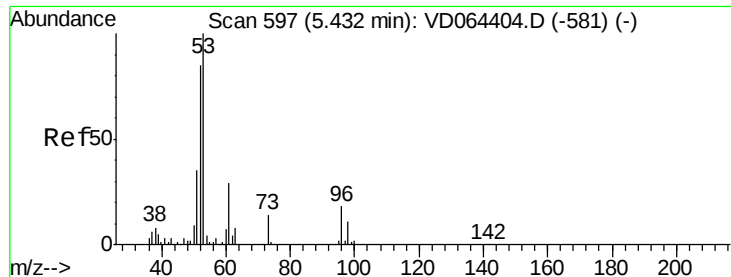
10000

0

4.71

Time--> 4.50 4.60 4.70 4.80 4.90





#15

Acrylonitrile

Concen: 94.148 ug/l

RT: 5.44 min Scan# 598

Delta R.T. 0.01 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

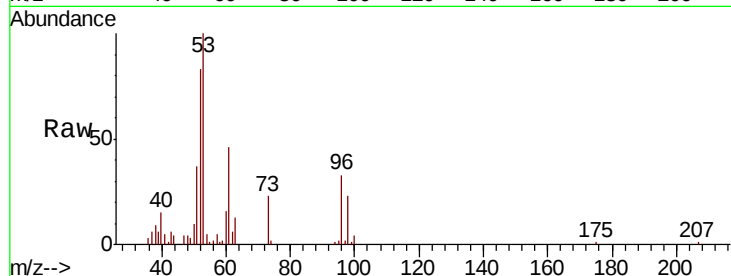
Tot Ion: 53 Resp: 92820

Ion Ratio Lower Upper

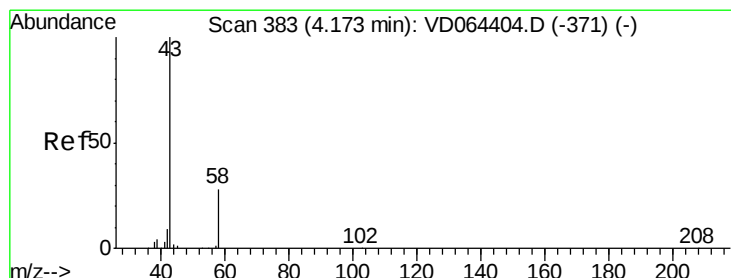
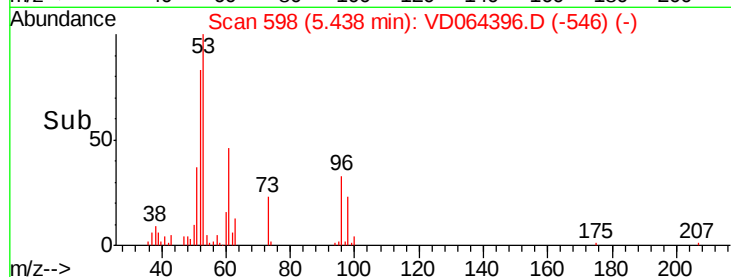
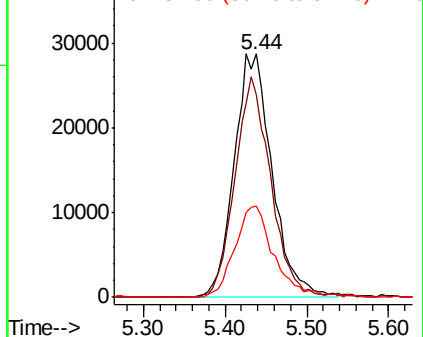
53 100

52 84.9 67.9 101.9

51 38.0 30.6 45.8



Abundance Ion 53.00 (52.70 to 53.70): VDC  
Ion 52.00 (51.70 to 52.70): VDC  
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 92.722 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064396.D

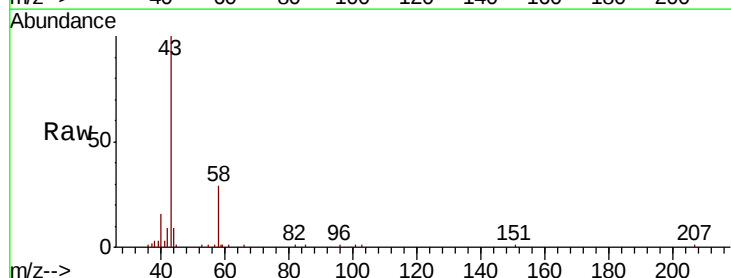
Acq: 27 Nov 2019 15:07

Tgt Ion: 43 Resp: 83884

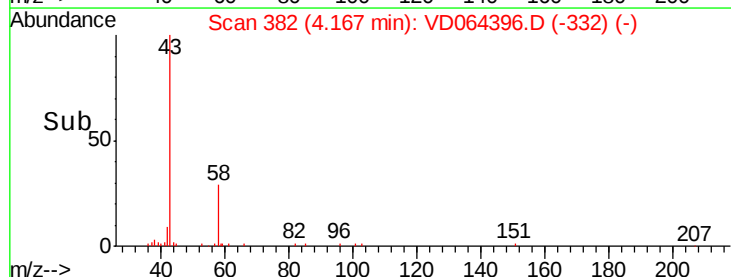
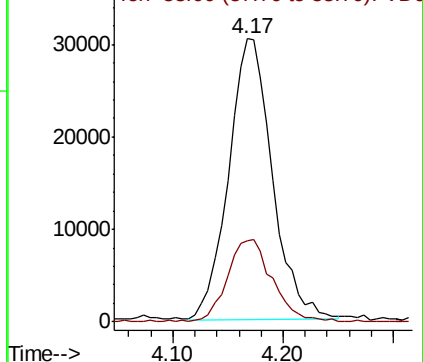
Ion Ratio Lower Upper

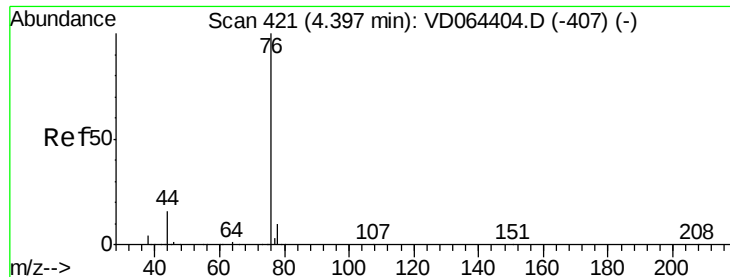
43 100

58 28.9 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC

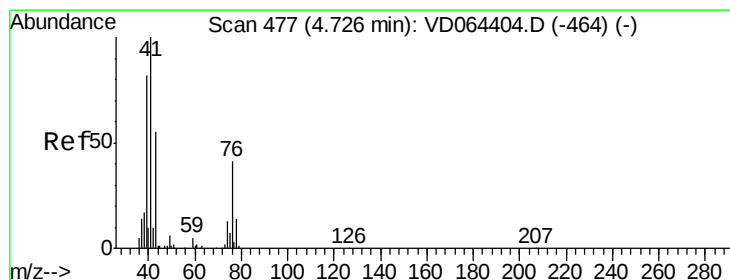
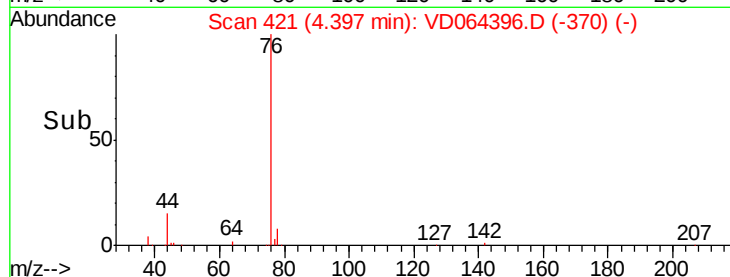
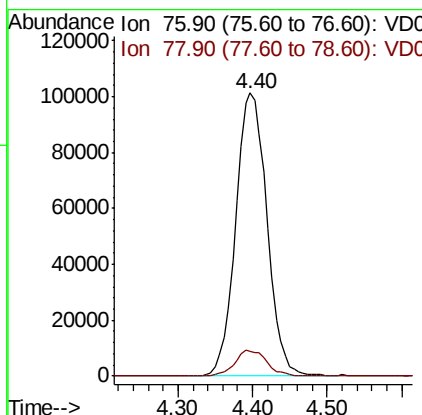
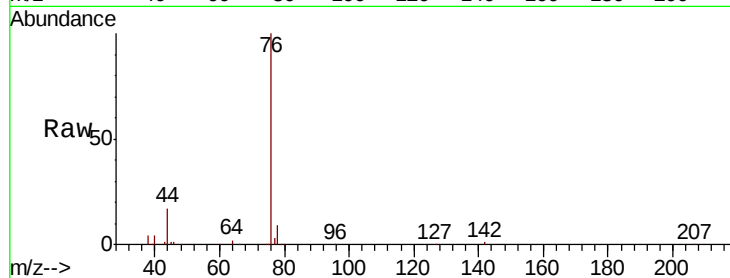




#17  
Carbon Disulfide  
Concen: 20.878 ug/l  
RT: 4.40 min Scan# 421  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

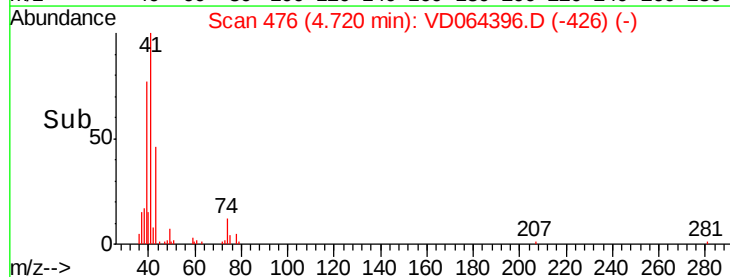
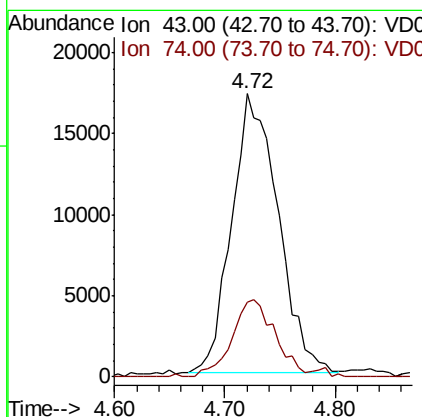
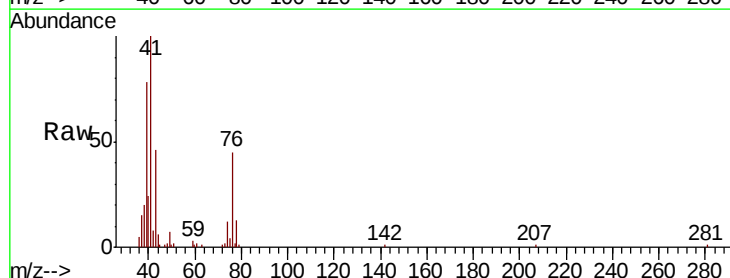
Instrument :  
MSVOA\_D  
ClientSampleID :

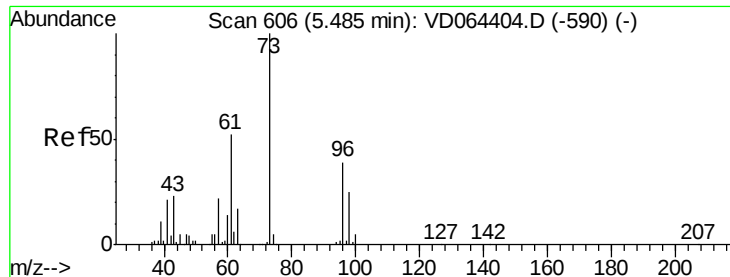
Tot Ion: 76 Resp: 294790  
Ion Ratio Lower Upper  
76 100  
78 8.6 7.8 11.8



#18  
Methyl Acetate  
Concen: 19.326 ug/l  
RT: 4.72 min Scan# 476  
Delta R.T. -0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 43 Resp: 51000  
Ion Ratio Lower Upper  
43 100  
74 25.5 19.7 29.5

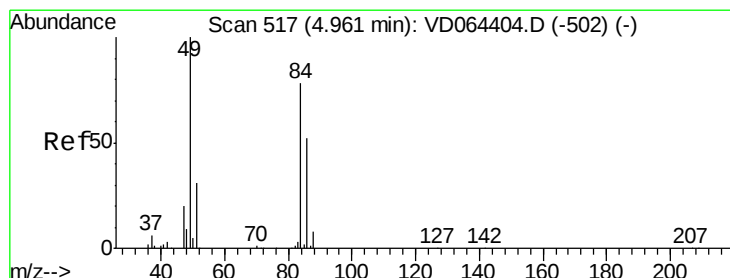
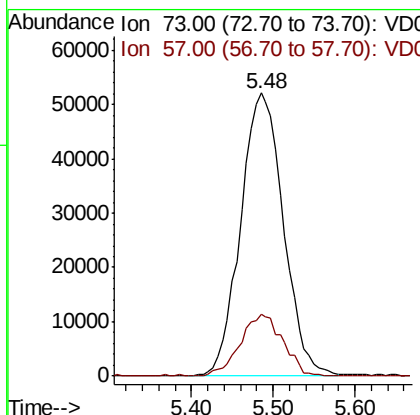
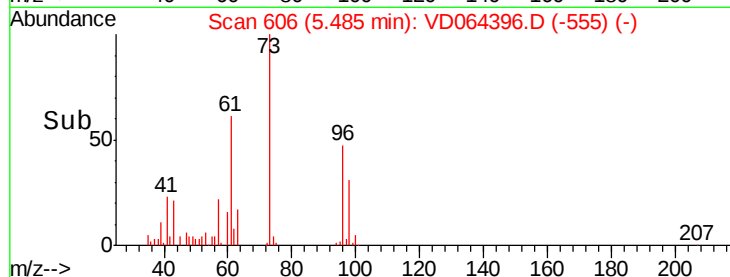
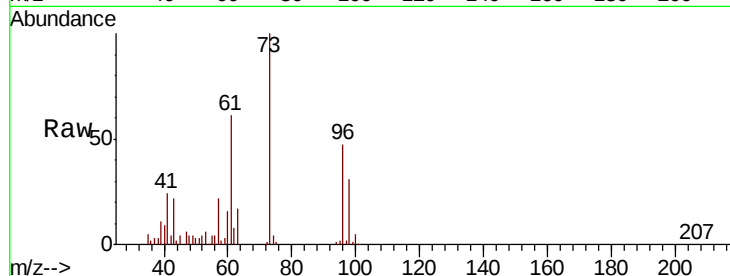




#19  
Methvl tert-butvl Ether  
Concen: 18.539 ug/l  
RT: 5.48 min Scan# 606  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

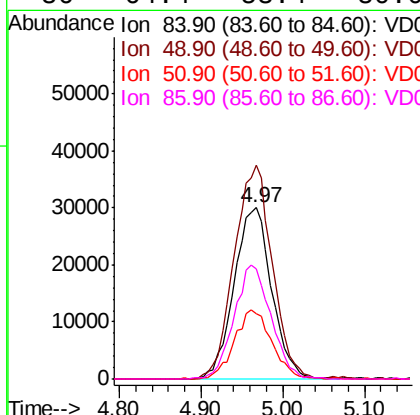
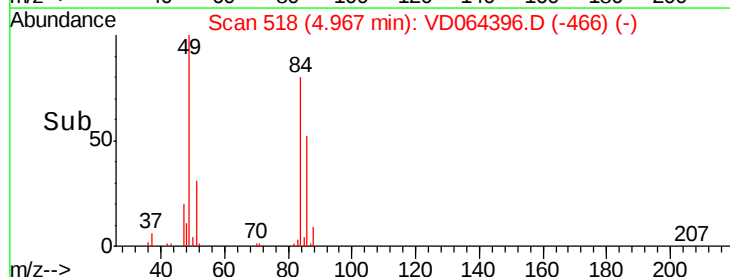
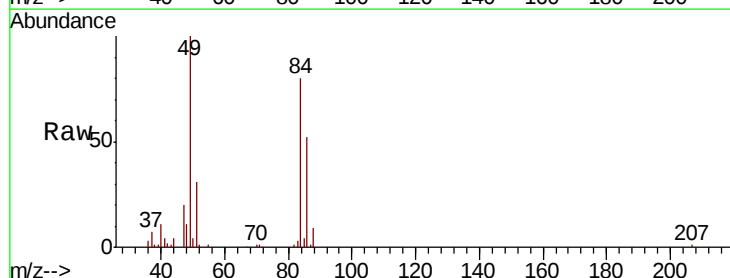
Instrument :  
MSVOA\_D  
ClientSampled :

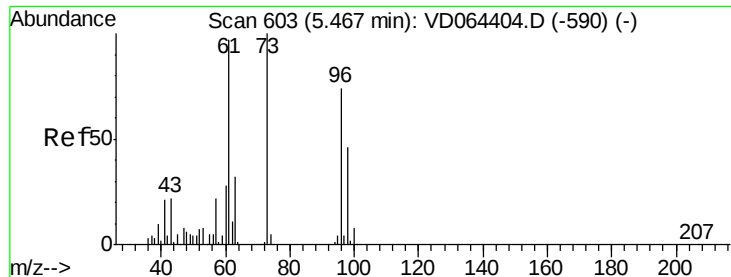
Tot Ion: 73 Resp: 189583  
Ion Ratio Lower Upper  
73 100  
57 21.7 17.6 26.4



#20  
Methylene Chloride  
Concen: 18.104 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. 0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 84 Resp: 96258  
Ion Ratio Lower Upper  
84 100  
49 124.8 102.6 153.8  
51 38.3 32.0 48.0  
86 64.4 53.4 80.0





#21

trans-1,2-Dichloroethene

Concen: 20.349 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.01 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

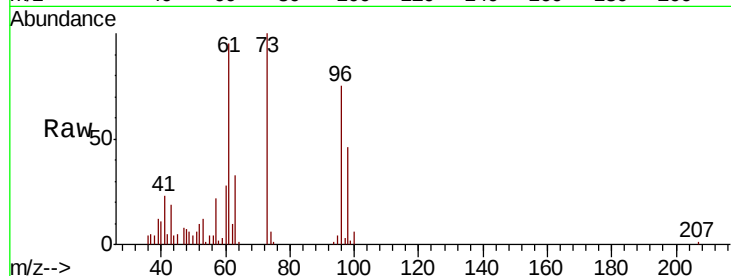
Tot Ion: 96 Resp: 102614

Ion Ratio Lower Upper

96 100

61 126.9 105.8 158.6

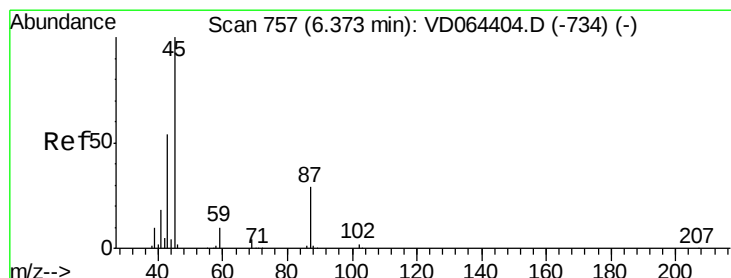
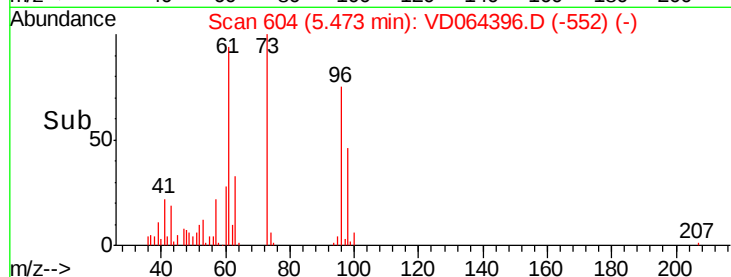
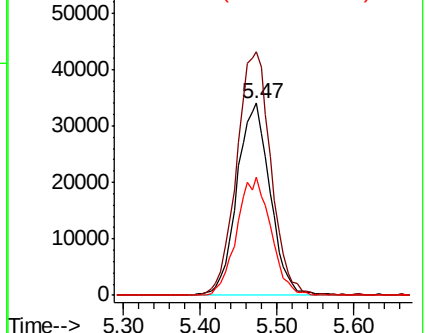
98 61.6 50.1 75.1



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 18.596 ug/l

RT: 6.37 min Scan# 757

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Tgt Ion: 45 Resp: 255415

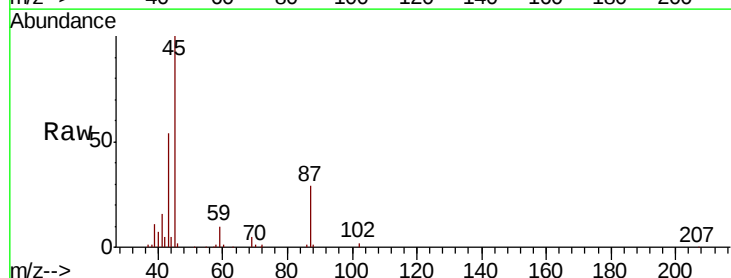
Ion Ratio Lower Upper

45 100

43 53.3 43.1 64.7

87 28.8 23.5 35.3

59 9.9 8.2 12.2

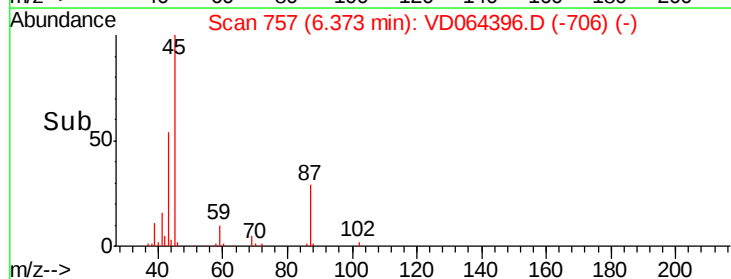
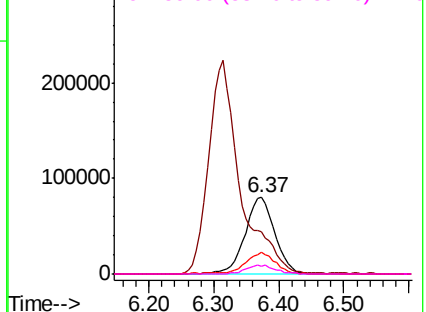


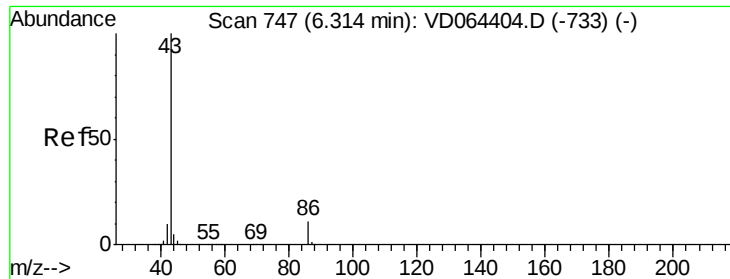
Abundance Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC

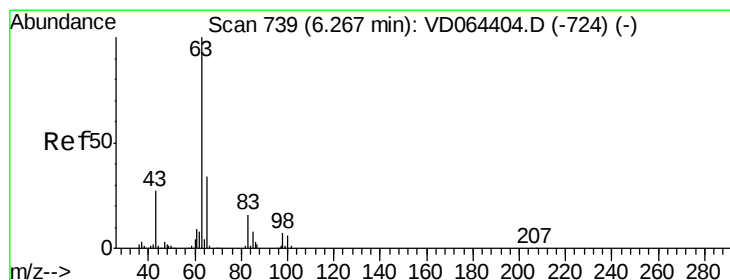
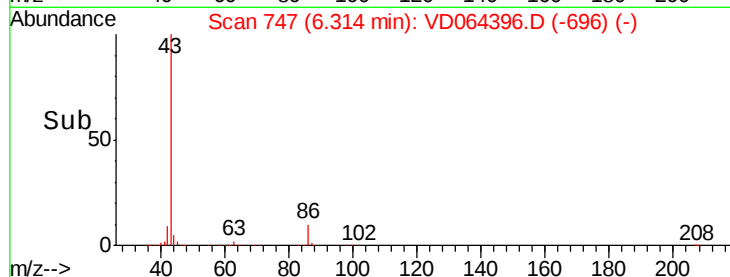
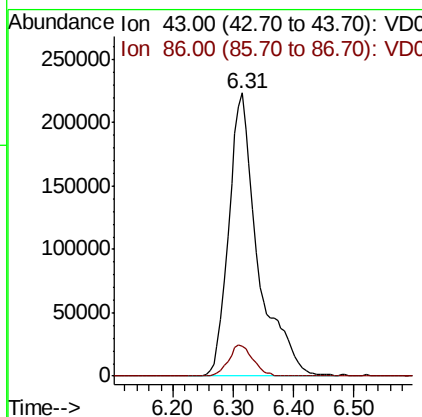
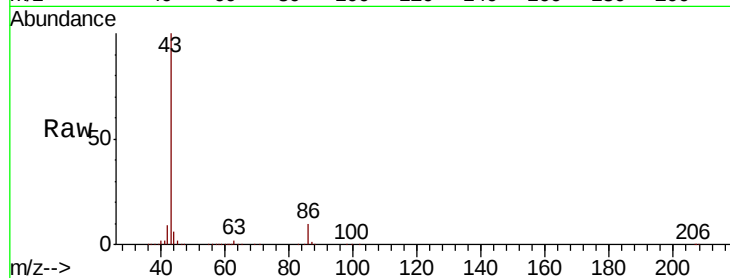




#23  
 Vinyl Acetate  
 Concen: 92.648 ug/l  
 RT: 6.31 min Scan# 747  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

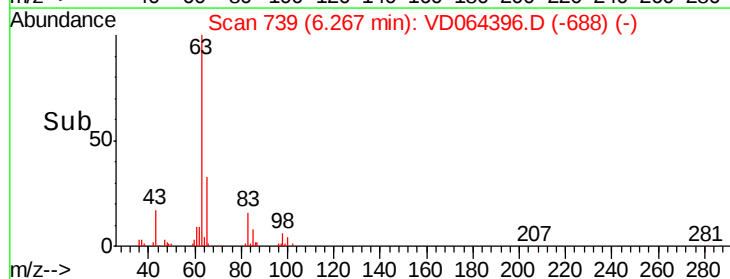
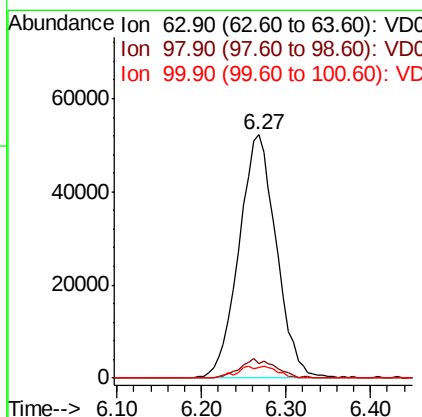
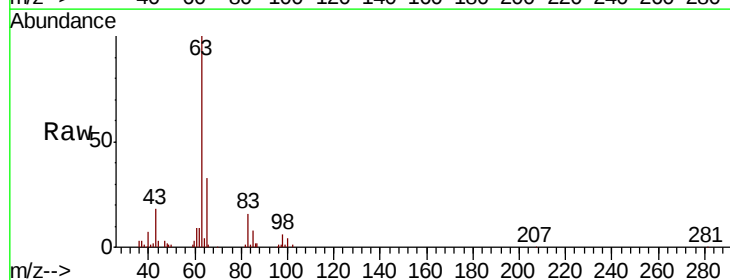
Instrument :  
 MSVOA\_D  
 ClientSampled :

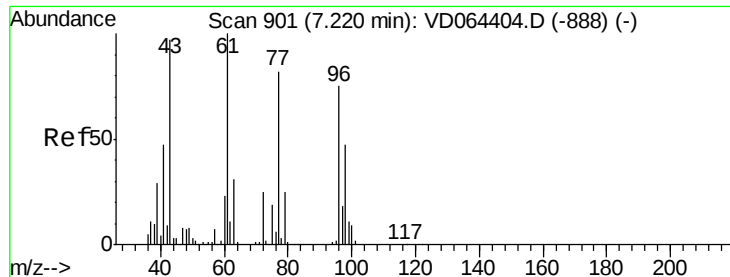
Tot Ion: 43 Resp: 750187  
 Ion Ratio Lower Upper  
 43 100  
 86 10.4 8.9 13.3



#24  
 1,1-Dichloroethane  
 Concen: 19.385 ug/l  
 RT: 6.27 min Scan# 739  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

Tgt Ion: 63 Resp: 160118  
 Ion Ratio Lower Upper  
 63 100  
 98 6.0 3.6 10.9  
 100 4.3 2.9 8.6





#25

2-Butanone

Concen: 95.771 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

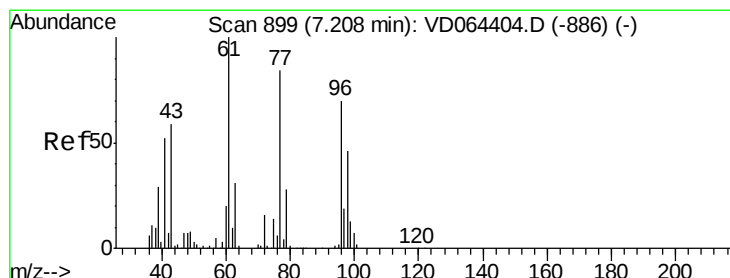
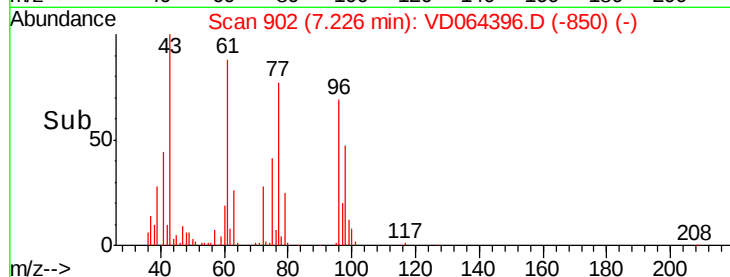
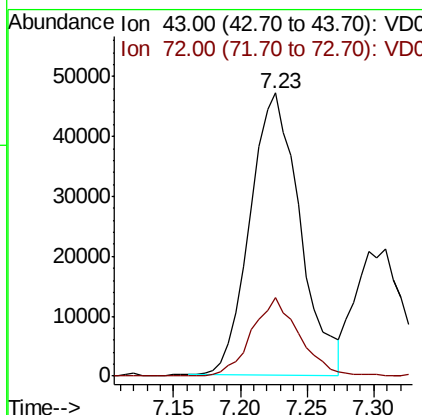
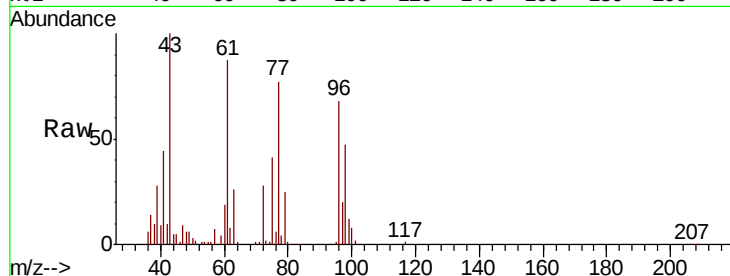
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 43 Resp: 122531

Ion Ratio Lower Upper

43 100

72 28.0 21.0 31.4



#26

2,2-Dichloropropane

Concen: 20.156 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD064396.D

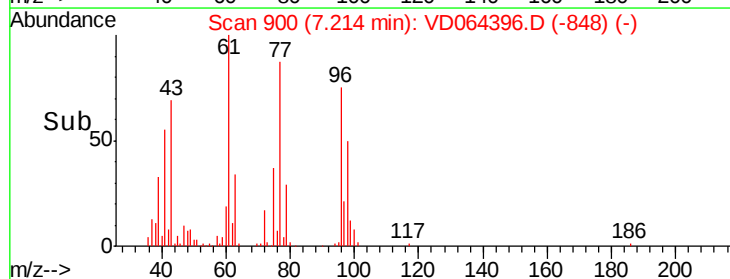
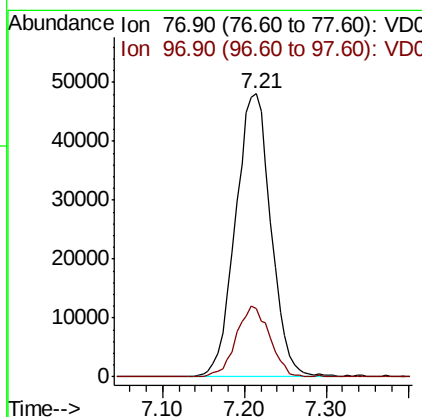
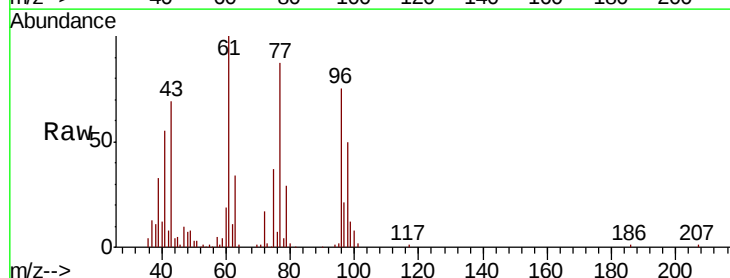
Acq: 27 Nov 2019 15:07

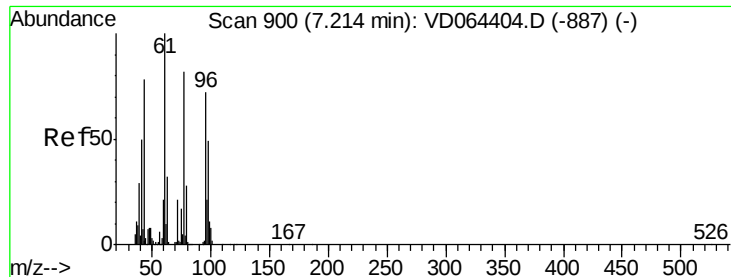
Tgt Ion: 77 Resp: 144784

Ion Ratio Lower Upper

77 100

97 23.7 11.6 34.7



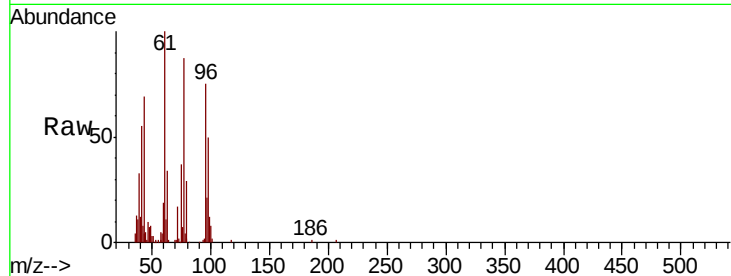


#27

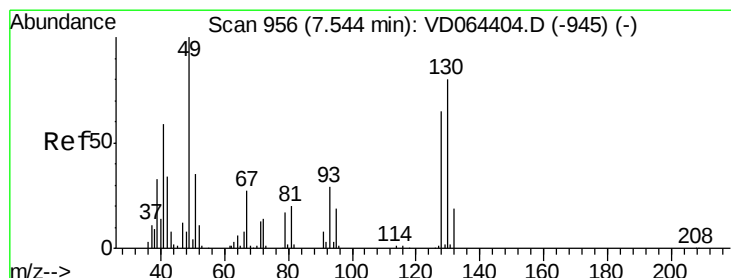
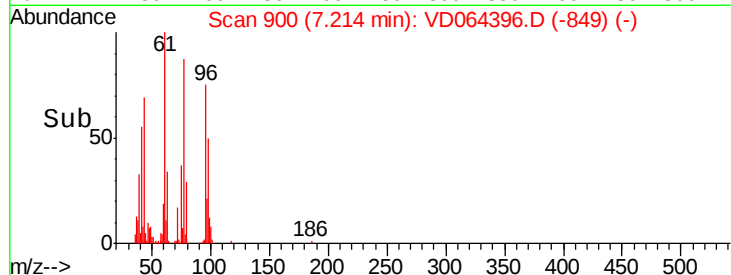
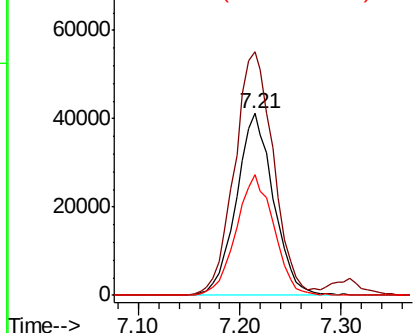
cis-1,2-Dichloroethene  
Concen: 19.036 ug/l  
RT: 7.21 min Scan# 900  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 96 Resp: 104654  
Ion Ratio Lower Upper  
96 100  
61 140.8 0.0 279.6  
98 67.1 0.0 129.2



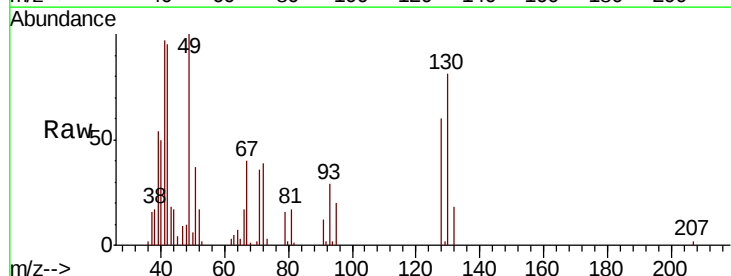
Abundance Ion 95.90 (95.60 to 96.60): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 97.90 (97.60 to 98.60): VDC



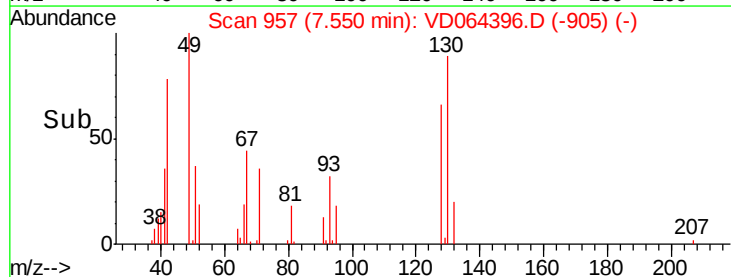
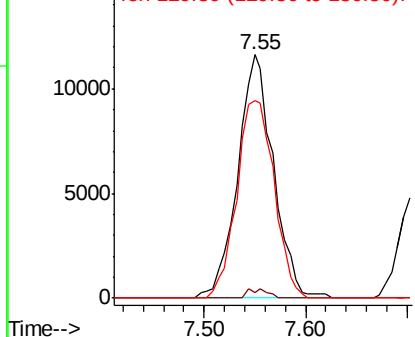
#28

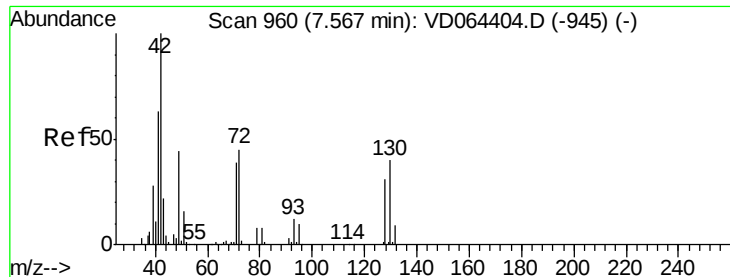
Bromochloromethane  
Concen: 10.068 ug/l  
RT: 7.55 min Scan# 957  
Delta R.T. 0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 49 Resp: 28420  
Ion Ratio Lower Upper  
49 100  
129 2.1 0.0 4.4  
130 84.7 67.4 101.0



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

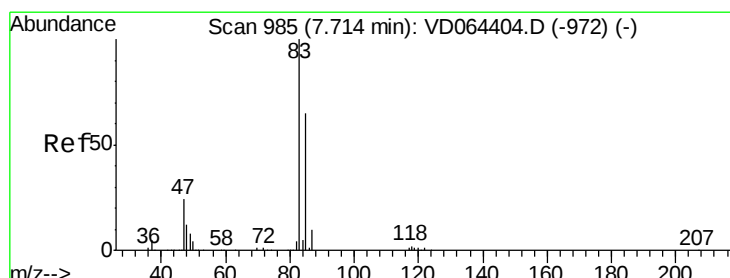
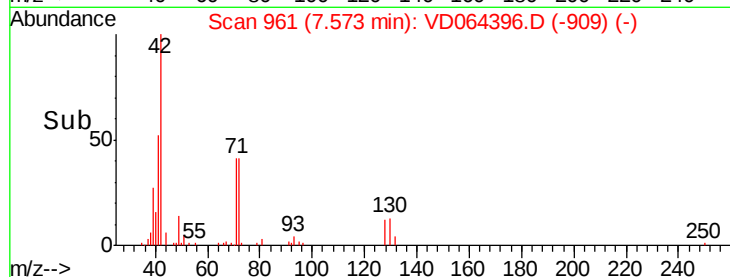
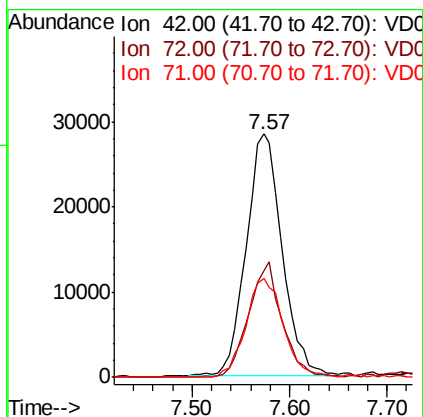
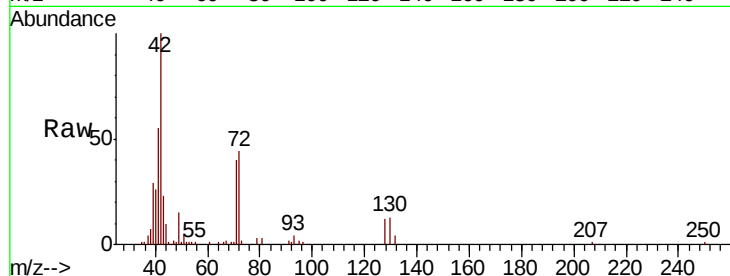




#29  
Tetrahydrofuran  
Concen: 90.074 ug/l  
RT: 7.57 min Scan# 961  
Delta R.T. 0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

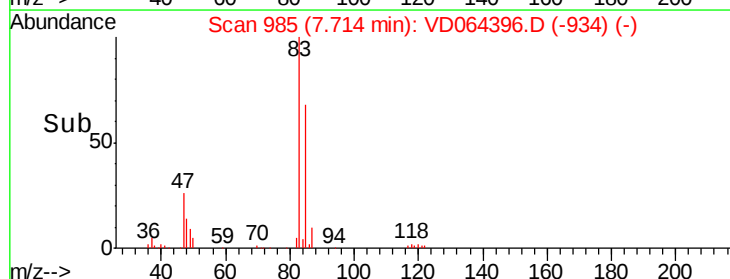
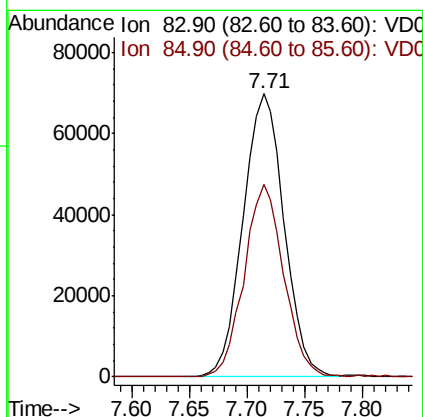
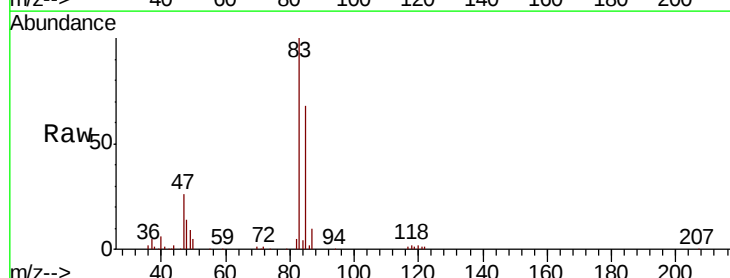
Instrument :  
MSVOA\_D  
ClientSampleId :

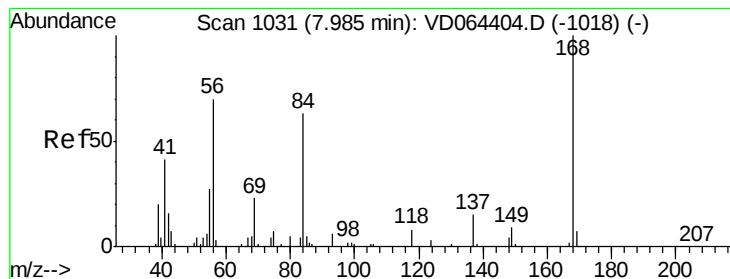
Tot Ion: 42 Resp: 73320  
Ion Ratio Lower Upper  
42 100  
72 44.2 35.8 53.8  
71 42.6 32.7 49.1



#30  
Chloroform  
Concen: 20.206 ug/l  
RT: 7.71 min Scan# 985  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 83 Resp: 172850  
Ion Ratio Lower Upper  
83 100  
85 68.2 51.8 77.6





#31

Cyclohexane

Concen: 19.397 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

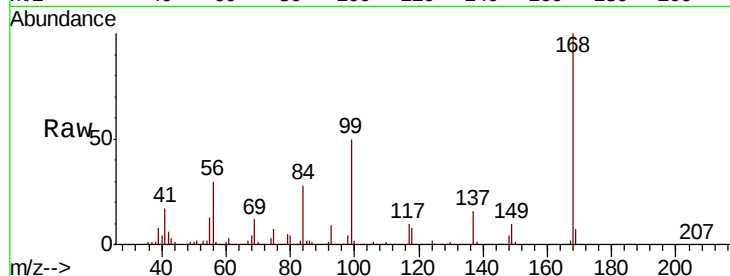
Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

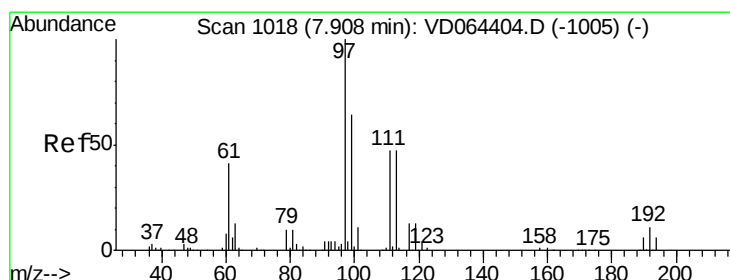
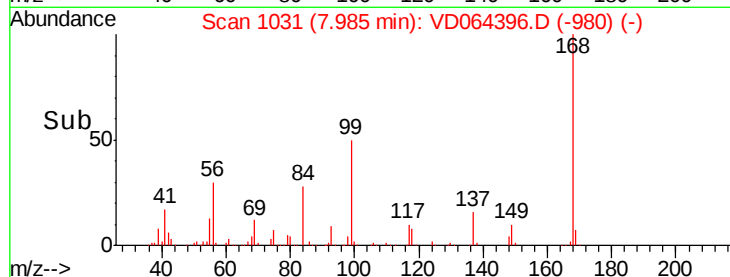
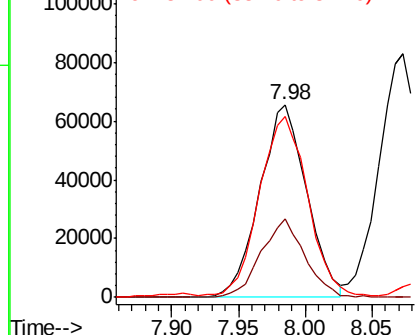
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 56 Resp: 160130

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 40.0  | 26.2  | 39.4# |
| 84  | 92.5  | 70.3  | 105.5 |



Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC



#32

1,1,1-Trichloroethane

Concen: 20.023 ug/l

RT: 7.90 min Scan# 1017

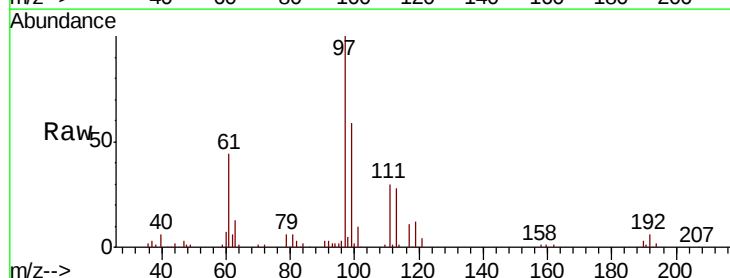
Delta R.T. -0.01 min

Lab File: VD064396.D

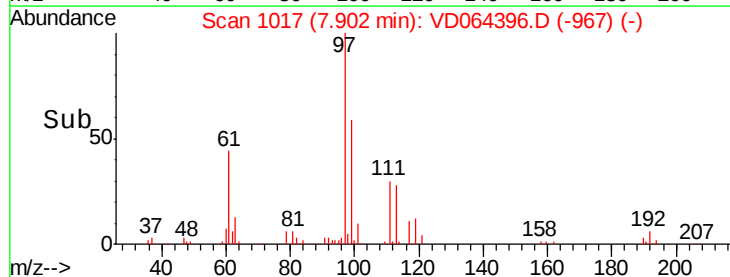
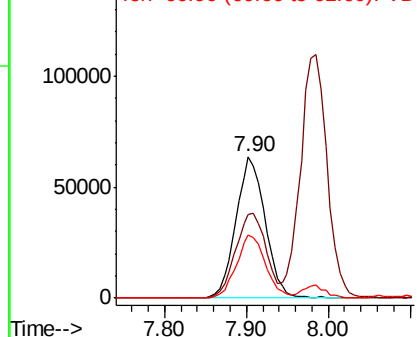
Acq: 27 Nov 2019 15:07

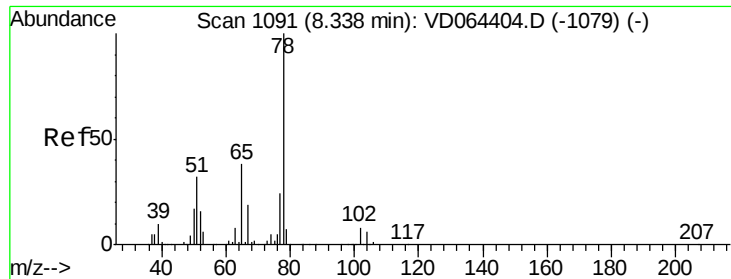
Tgt Ion: 97 Resp: 158800

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 62.2  | 51.4  | 77.2  |
| 61  | 44.3  | 35.0  | 52.4  |



Abundance Ion 96.90 (96.60 to 97.60): VDC  
Ion 98.90 (98.60 to 99.60): VDC  
Ion 60.90 (60.60 to 61.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 17.522 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

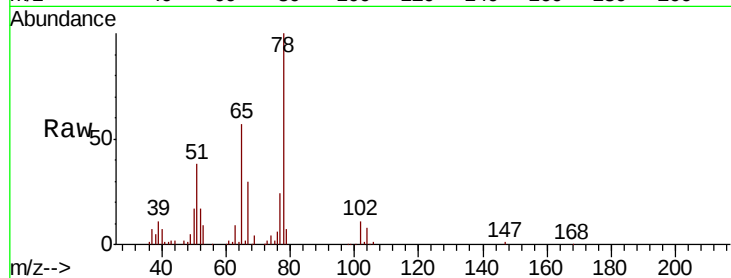
ClientSampleId :

Tot Ion: 65 Resp: 78445

Ion Ratio Lower Upper

65 100

67 53.8 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

40000

30000

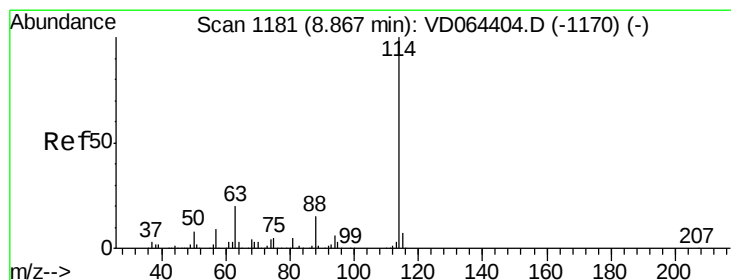
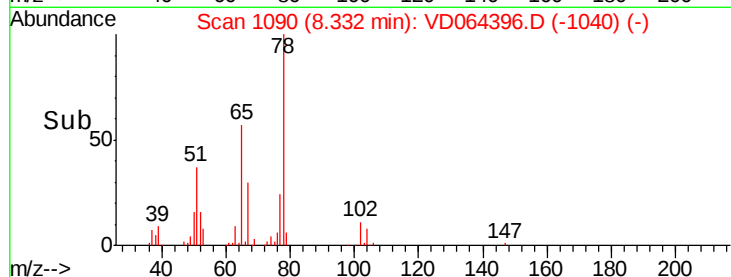
20000

10000

0

8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

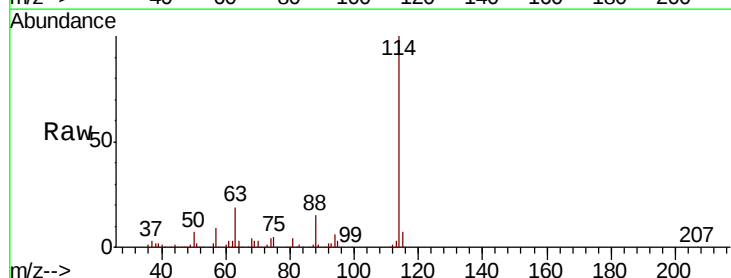
Tgt Ion: 114 Resp: 699645

Ion Ratio Lower Upper

114 100

63 18.7 0.0 40.0

88 14.5 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

400000

300000

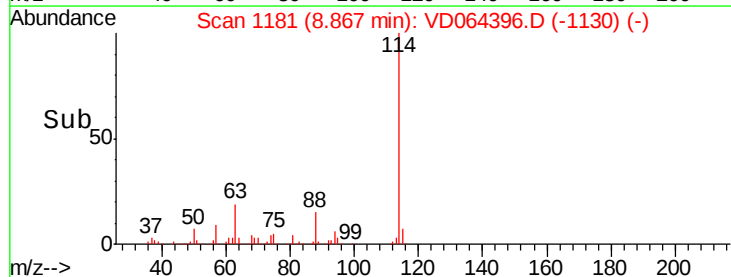
200000

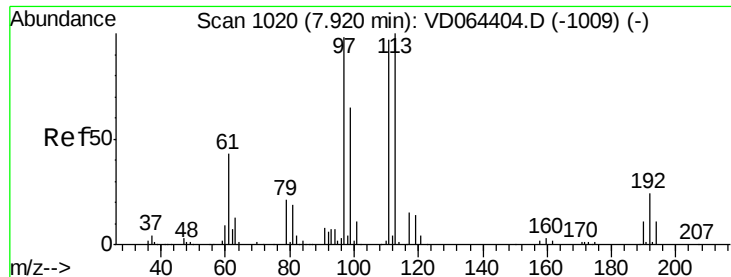
100000

0

8.80 8.90 9.00

Time-->

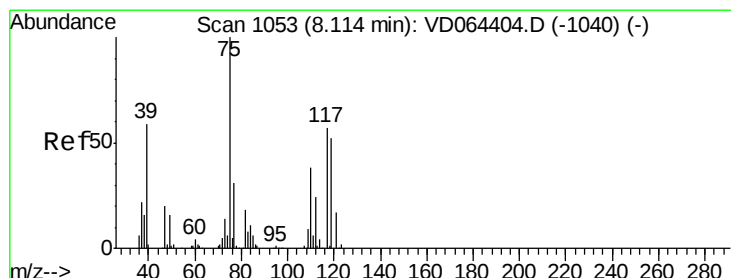
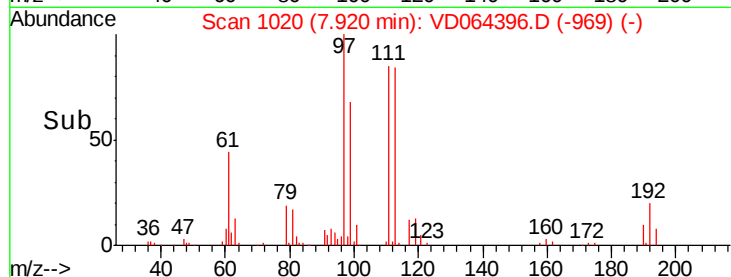
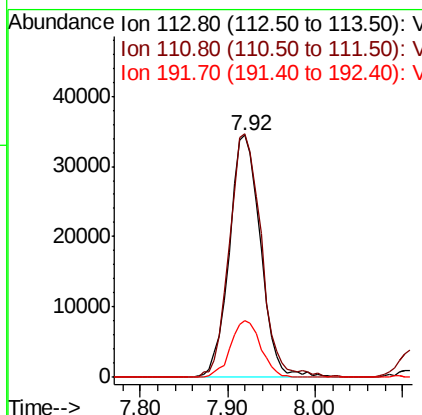
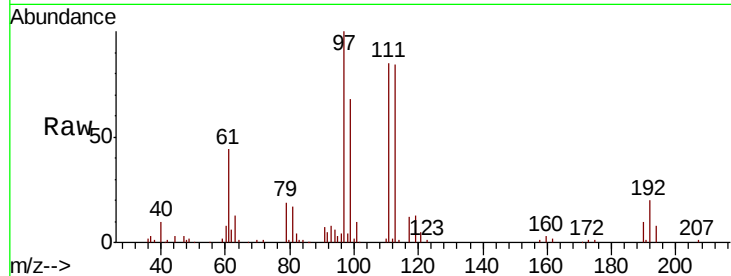




#35  
 Dibromofluoromethane  
 Concen: 18.834 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

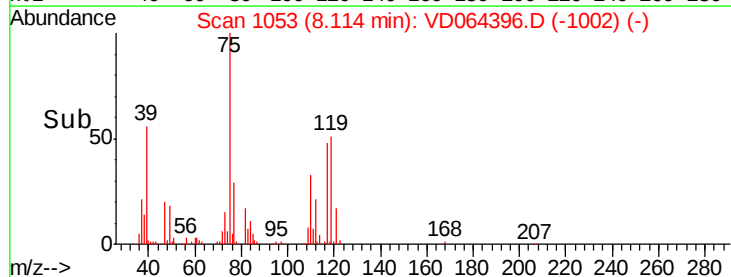
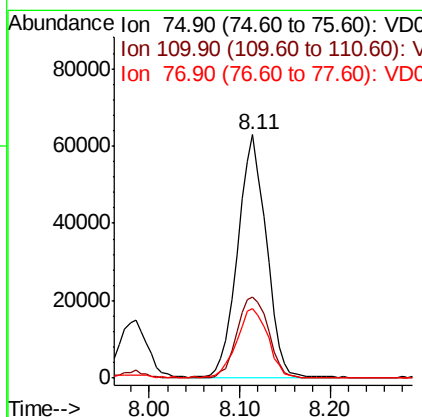
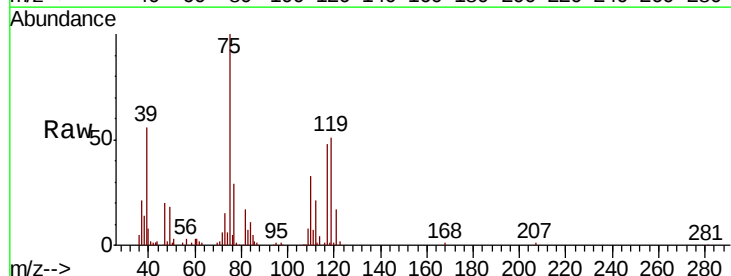
Instrument :  
 MSVOA\_D  
 ClientSampleId :

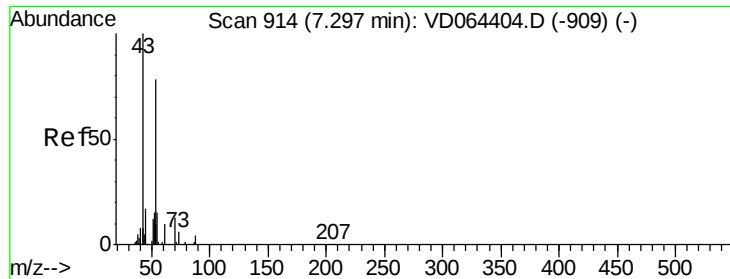
Tot Ion:113 Resp: 83021  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 79.4 119.2  
 192 22.5 18.6 28.0



#36  
 1,1-Dichloropropene  
 Concen: 20.881 ug/l  
 RT: 8.11 min Scan# 1053  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

Tgt Ion: 75 Resp: 138186  
 Ion Ratio Lower Upper  
 75 100  
 110 36.8 18.6 55.8  
 77 31.2 25.0 37.4

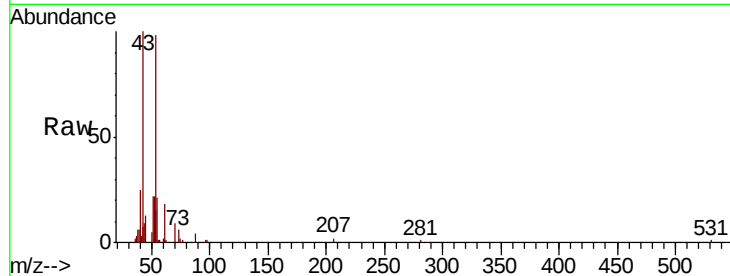




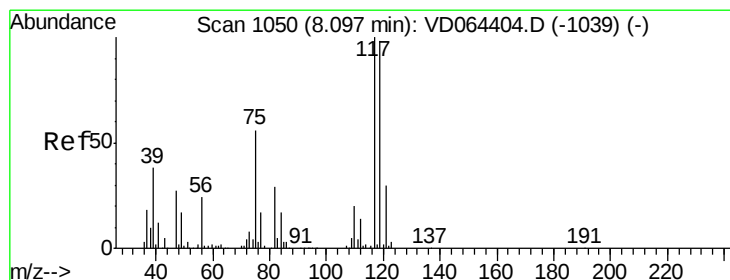
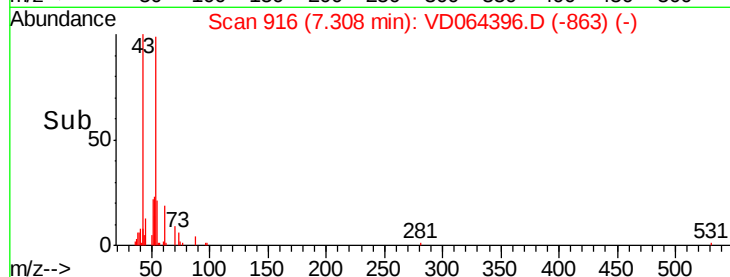
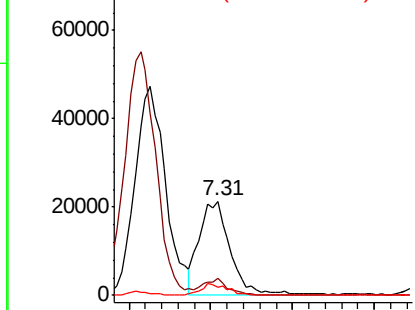
#37  
Ethyl Acetate  
Concen: 20.193 ug/l  
RT: 7.31 min Scan# 916  
Delta R.T. 0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 43 Resp: 56701  
Ion Ratio Lower Upper  
43 100  
61 14.0 10.9 16.3  
70 10.4 8.3 12.5

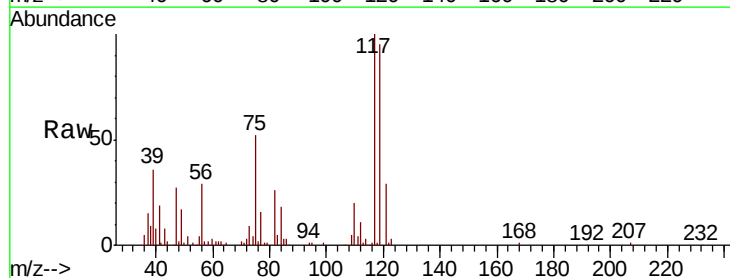


Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 70.00 (69.70 to 70.70): VDC

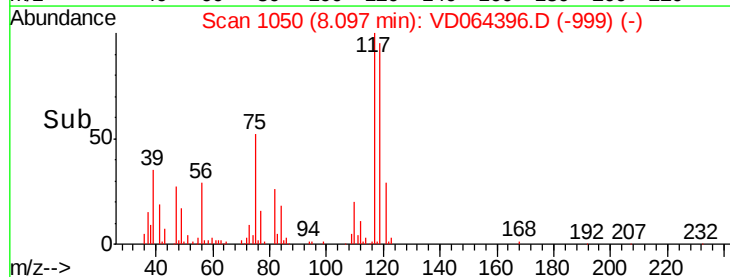
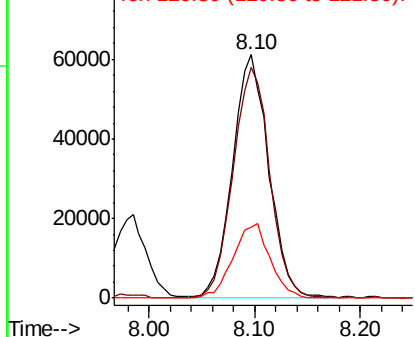


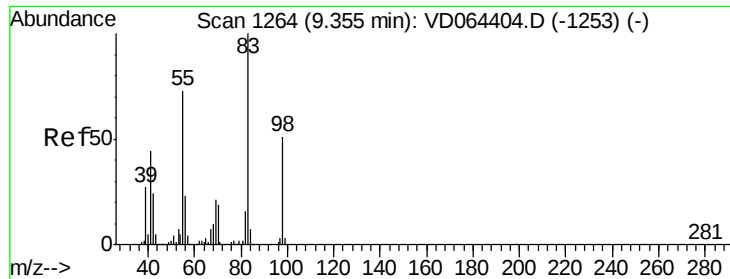
#38  
Carbon Tetrachloride  
Concen: 20.752 ug/l  
RT: 8.10 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 117 Resp: 144941  
Ion Ratio Lower Upper  
117 100  
119 95.1 78.8 118.2  
121 29.2 24.2 36.2



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

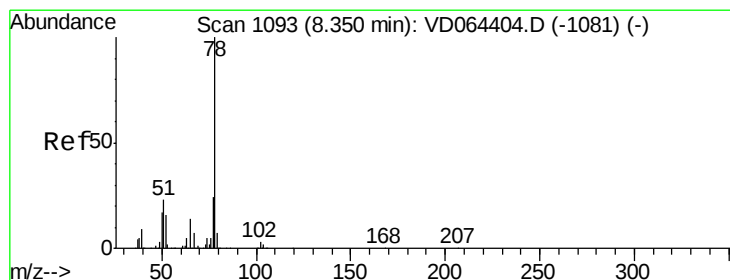
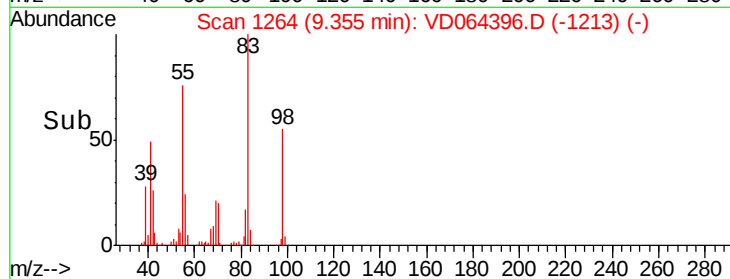
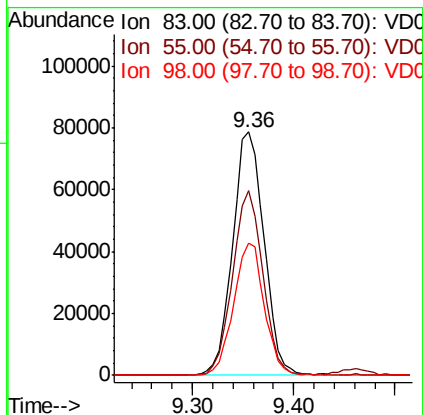
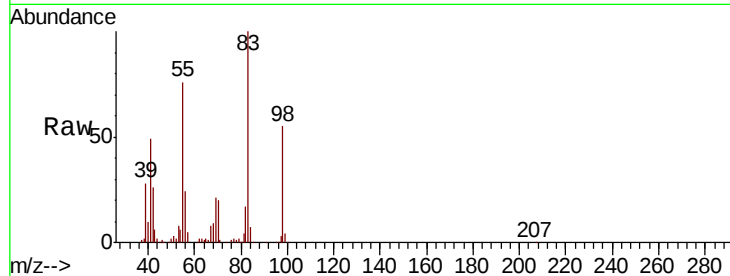




#39  
Methvlcvclohexane  
Concen: 20.607 ug/l  
RT: 9.36 min Scan# 1264  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

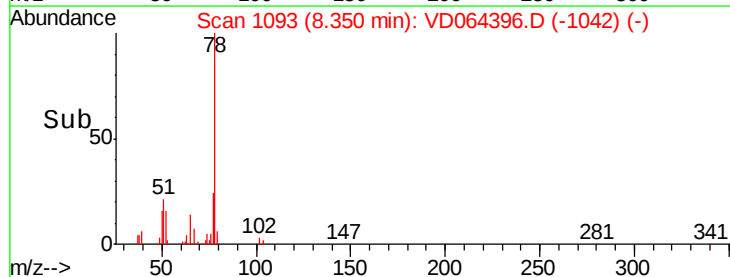
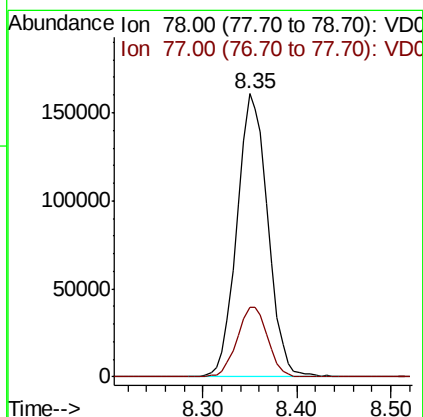
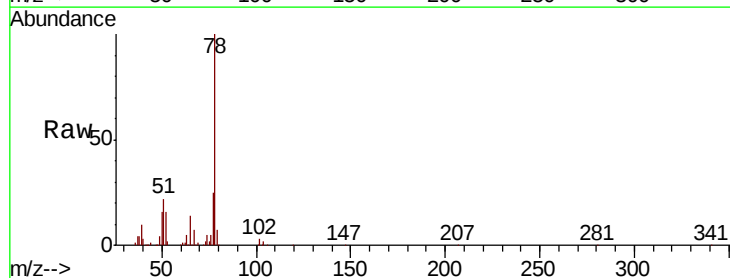
Instrument :  
MSVOA\_D  
ClientSampled :

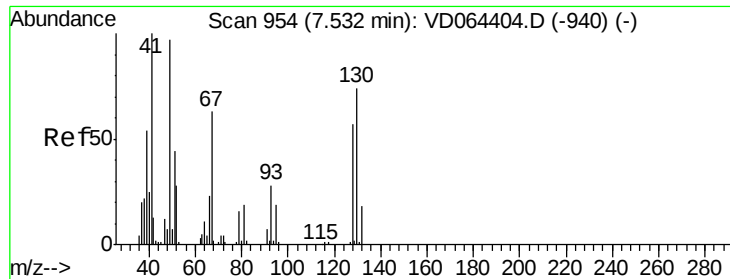
Tot Ion: 83 Resp: 169165  
Ion Ratio Lower Upper  
83 100  
55 75.8 58.6 87.8  
98 54.6 40.9 61.3



#40  
Benzene  
Concen: 19.835 ug/l  
RT: 8.35 min Scan# 1093  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 78 Resp: 364564  
Ion Ratio Lower Upper  
78 100  
77 24.7 19.6 29.4





#41

Methacrylonitrile

Concen: 20.600 ug/l

RT: 7.53 min Scan# 954

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 41 Resp: 33174

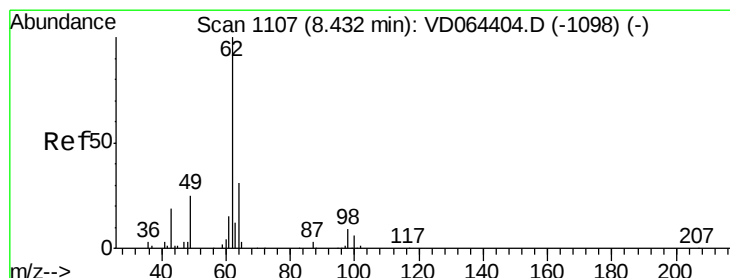
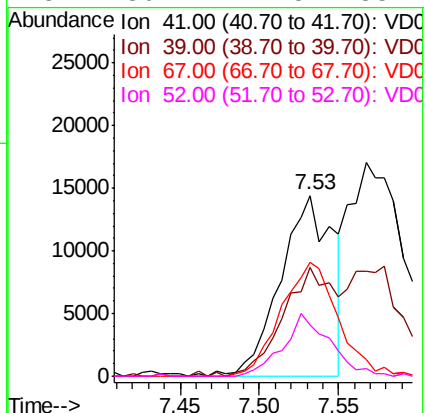
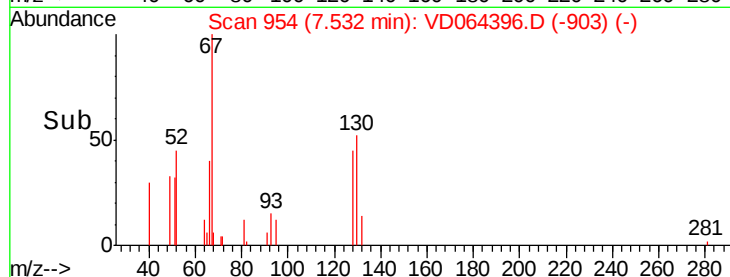
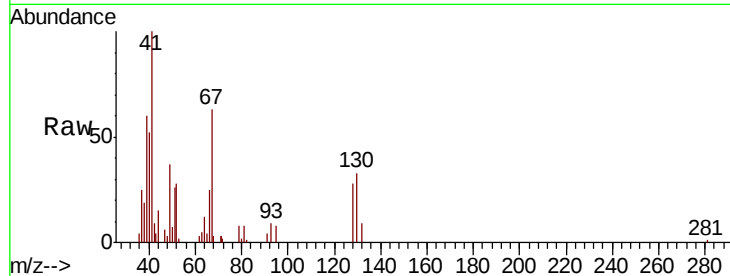
Ion Ratio Lower Upper

41 100

39 58.2 44.6 67.0

67 68.8 50.9 76.3

52 30.7 22.5 33.7



#42

1,2-Dichloroethane

Concen: 18.901 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VD064396.D

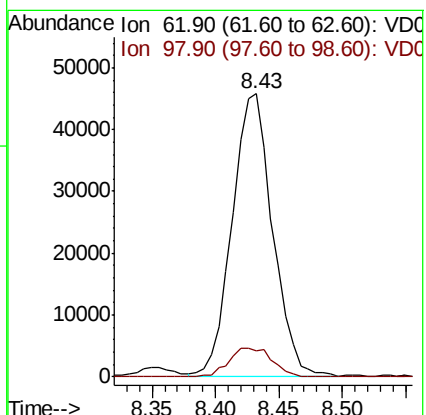
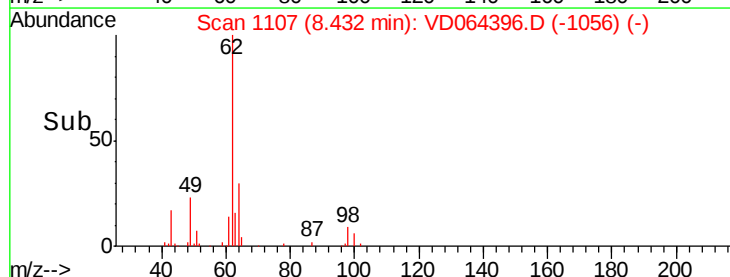
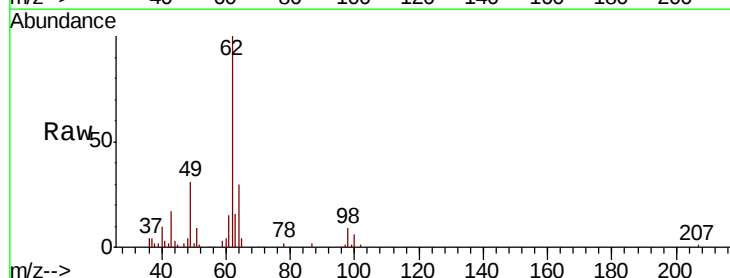
Acq: 27 Nov 2019 15:07

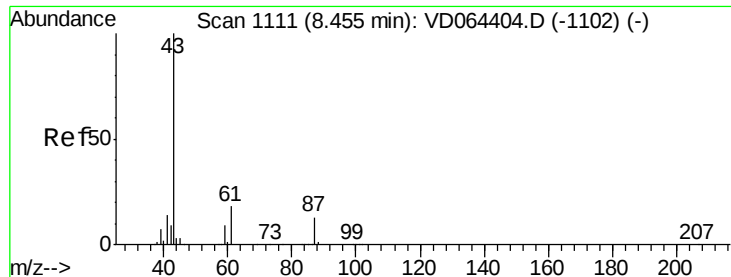
Tgt Ion: 62 Resp: 101311

Ion Ratio Lower Upper

62 100

98 11.0 0.0 20.6





#43

Isopropyl Acetate

Concen: 19.233 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

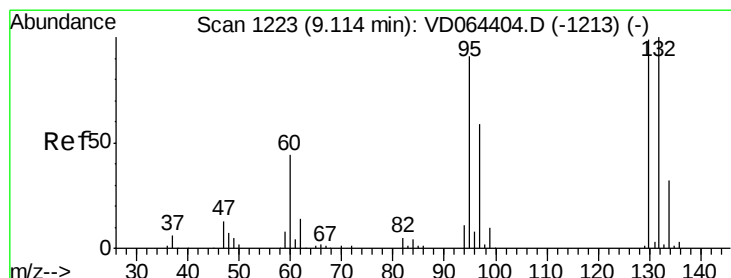
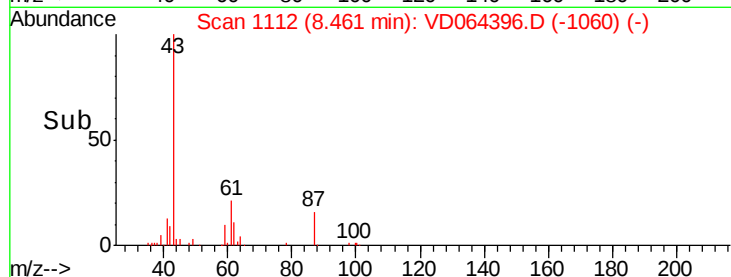
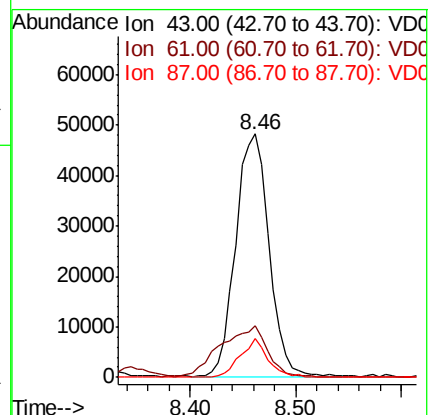
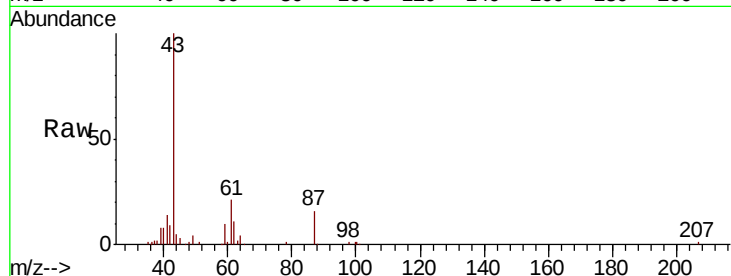
Tot Ion: 43 Resp: 106189

Ion Ratio Lower Upper

43 100

61 29.8 24.0 36.0

87 13.1 10.6 15.8



#44

Trichloroethene

Concen: 19.913 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD064396.D

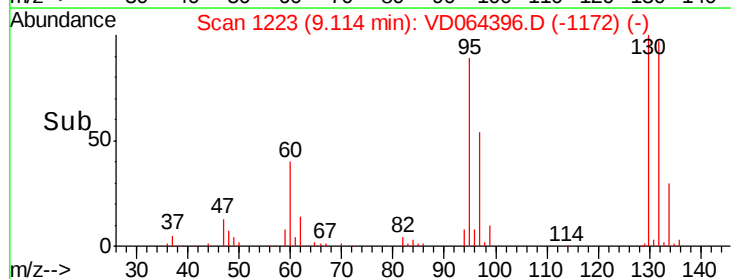
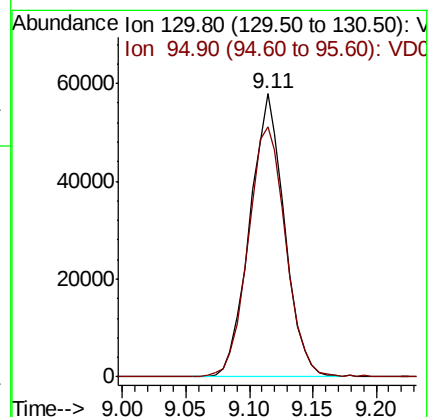
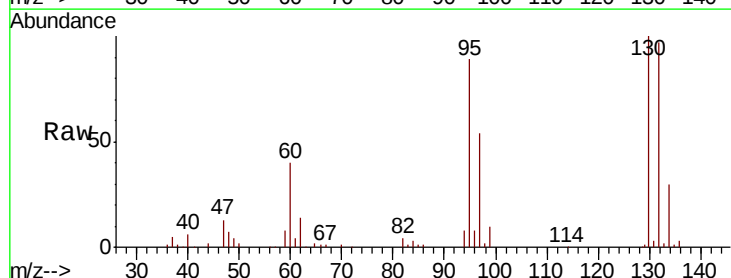
Acq: 27 Nov 2019 15:07

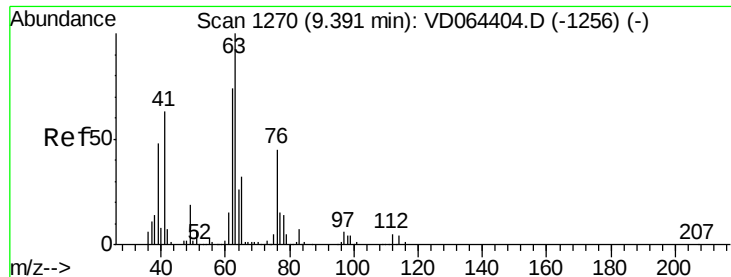
Tgt Ion: 130 Resp: 110248

Ion Ratio Lower Upper

130 100

95 88.6 0.0 184.6





#45

1,2-Dichloropropane

Concen: 19.982 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

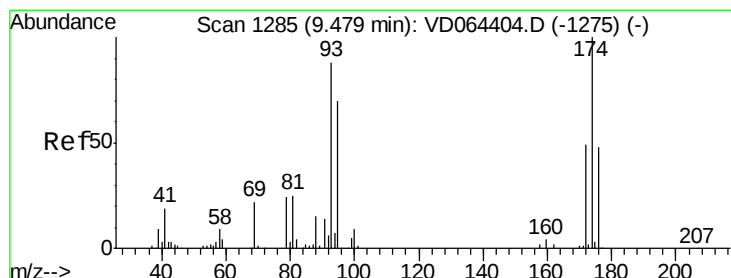
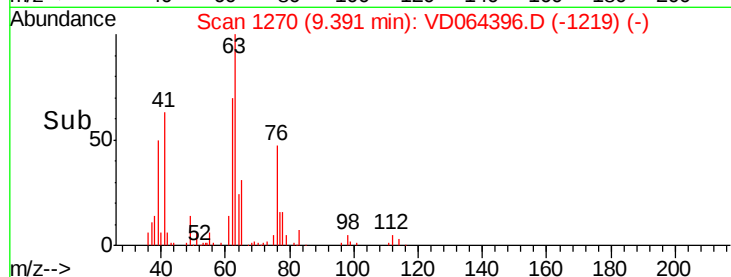
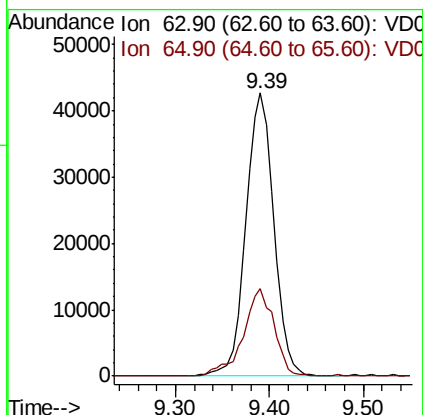
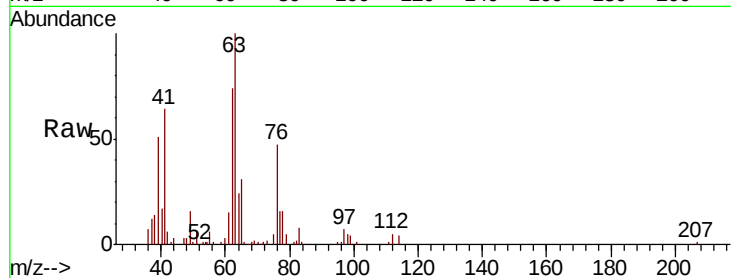
ClientSampled :

Tot Ion: 63 Resp: 87837

Ion Ratio Lower Upper

63 100

65 31.0 25.4 38.0



#46

Dibromomethane

Concen: 18.842 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

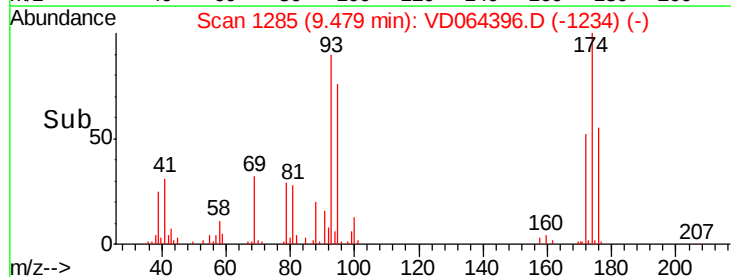
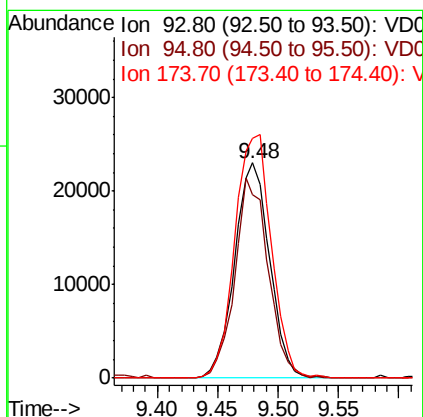
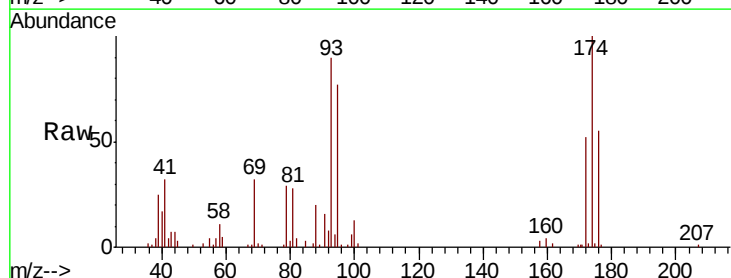
Tgt Ion: 93 Resp: 46746

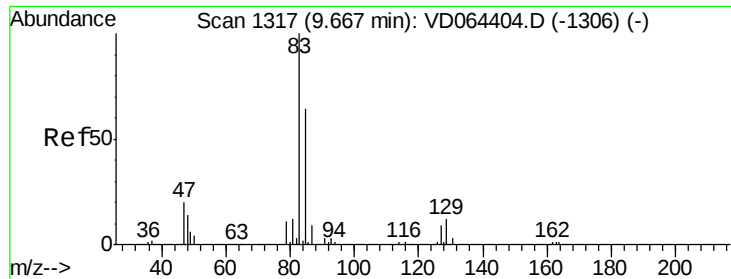
Ion Ratio Lower Upper

93 100

95 88.2 66.7 100.1

174 118.3 92.3 138.5





#47

Bromodichloromethane

Concen: 19.871 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

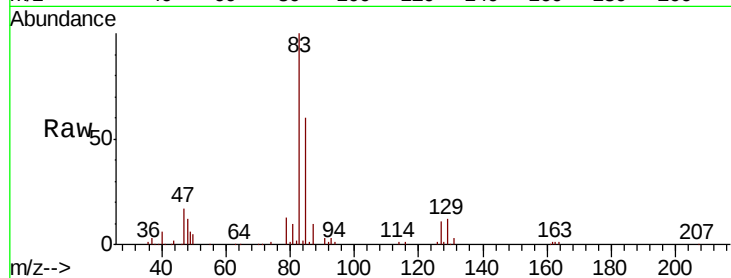
Tot Ion: 83 Resp: 126672

Ion Ratio Lower Upper

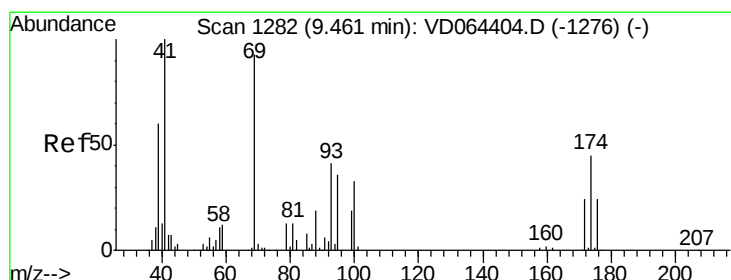
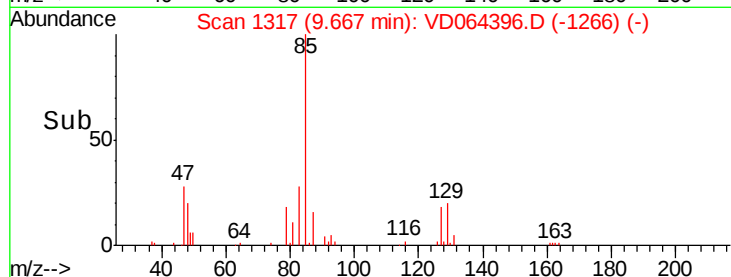
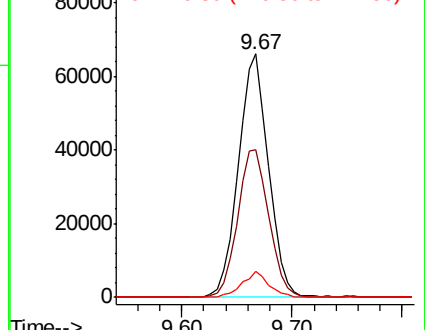
83 100

85 60.4 51.1 76.7

127 10.8 7.4 11.0



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



#48

Methyl methacrylate

Concen: 19.946 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

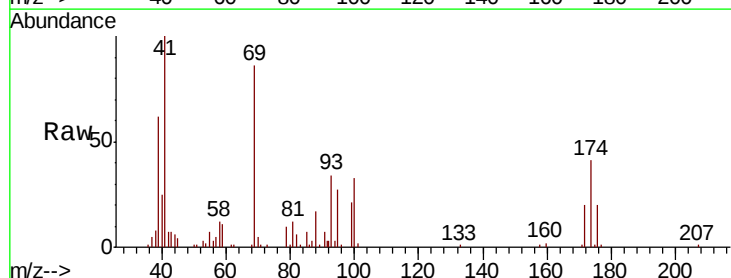
Tgt Ion: 41 Resp: 50391

Ion Ratio Lower Upper

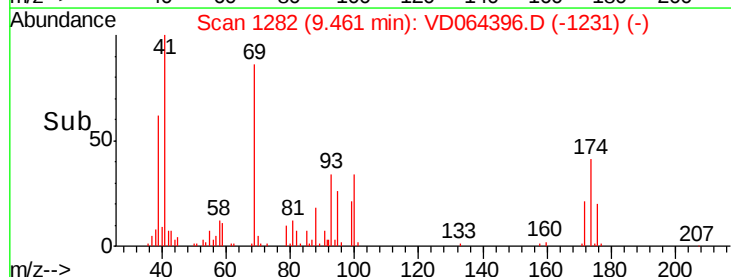
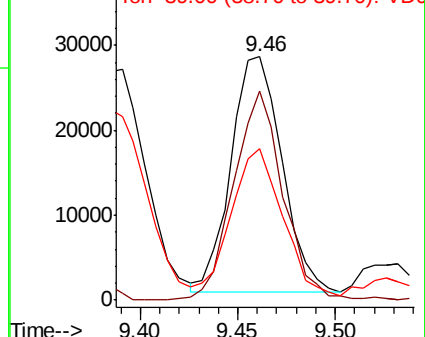
41 100

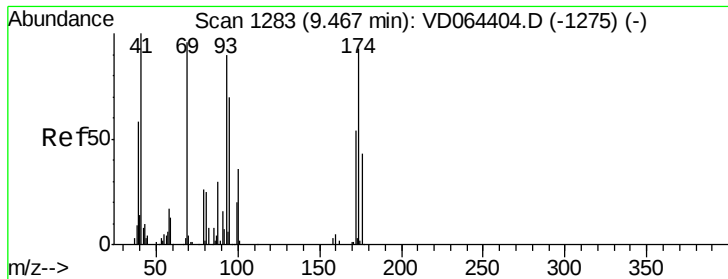
69 86.1 72.0 108.0

39 61.8 55.2 82.8



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

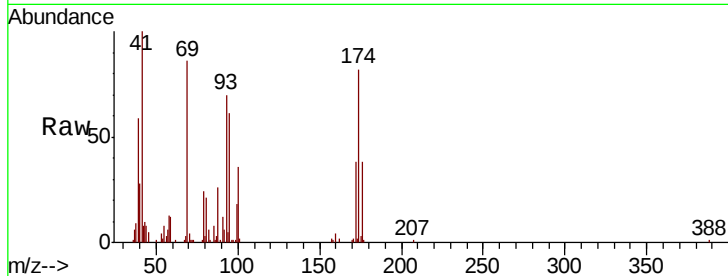




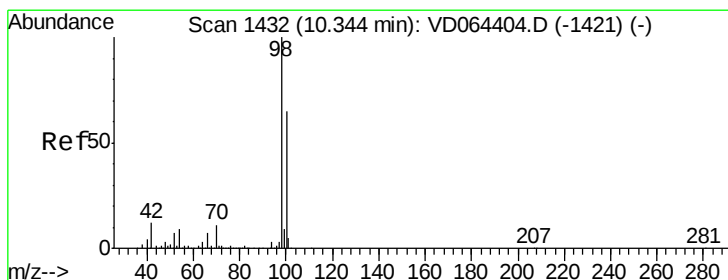
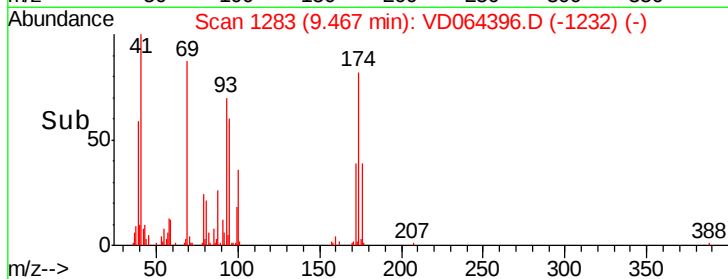
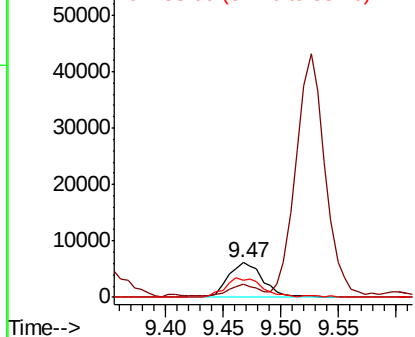
#49  
1,4-Dioxane  
Concen: 423.683 ug/l  
RT: 9.47 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 88 Resp: 12980  
Ion Ratio Lower Upper  
88 100  
43 29.0 26.7 40.1  
58 58.3 52.3 78.5

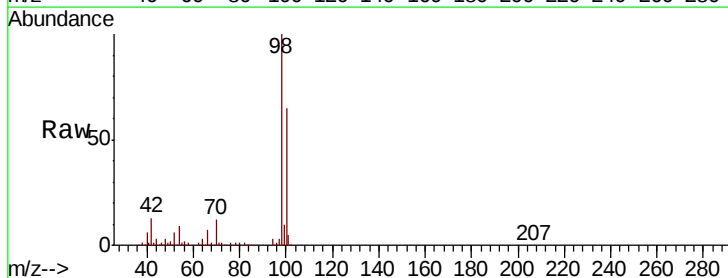


Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC

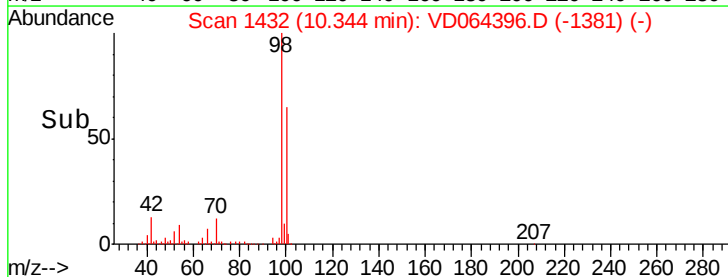
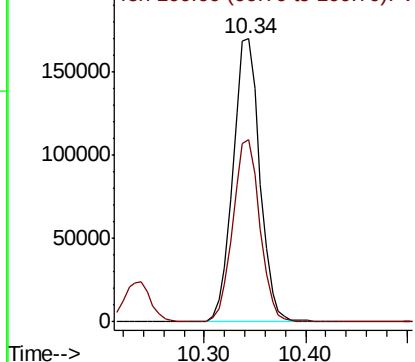


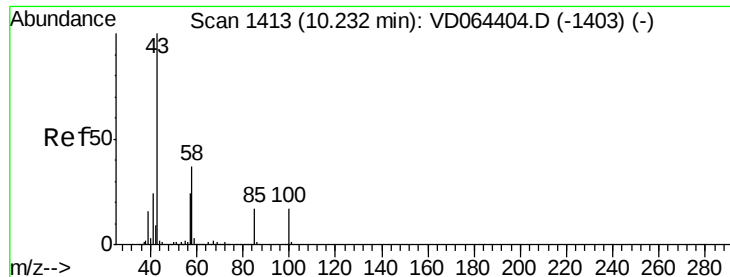
#50  
Toluene-d8  
Concen: 18.849 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 98 Resp: 312981  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VDC

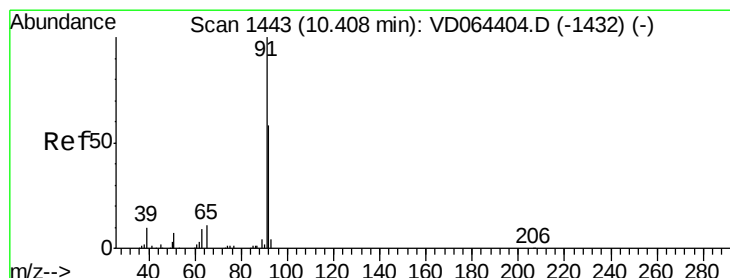
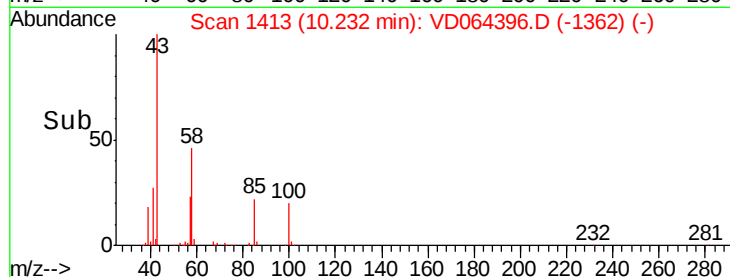
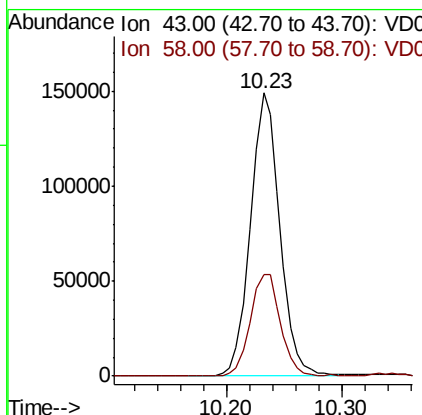
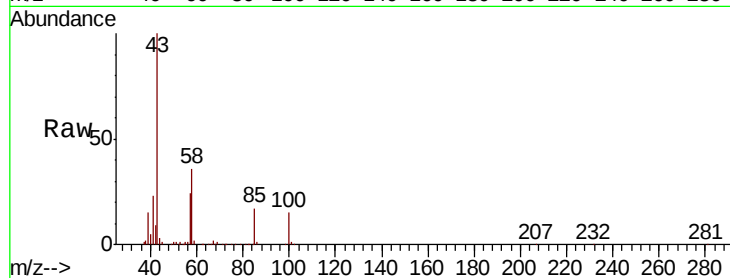




#51  
4-Methyl-2-Pentanone  
Concen: 96.546 ug/l  
RT: 10.23 min Scan# 1413  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

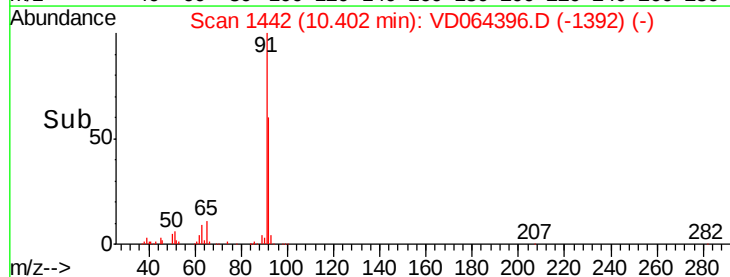
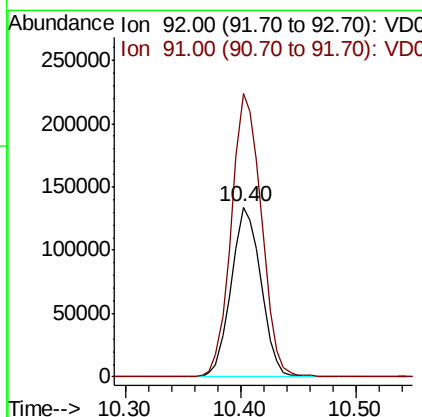
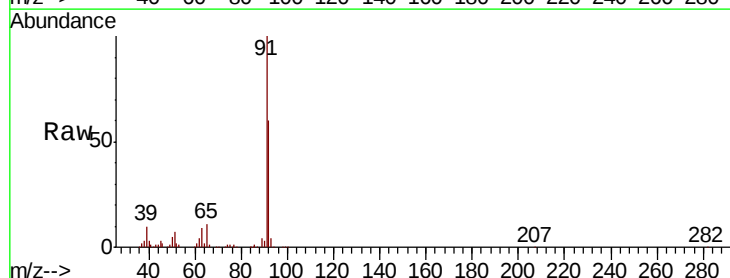
Instrument :  
MSVOA\_D  
ClientSampleId :

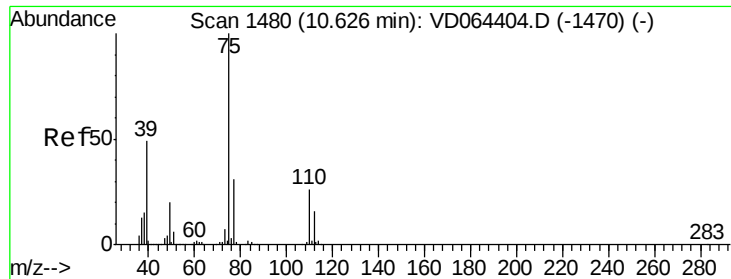
Tot Ion: 43 Resp: 263742  
Ion Ratio Lower Upper  
43 100  
58 37.1 30.6 46.0



#52  
Toluene  
Concen: 20.087 ug/l  
RT: 10.40 min Scan# 1442  
Delta R.T. -0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 92 Resp: 240610  
Ion Ratio Lower Upper  
92 100  
91 168.2 137.8 206.6





#53

t-1,3-Dichloropropene

Concen: 19.047 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

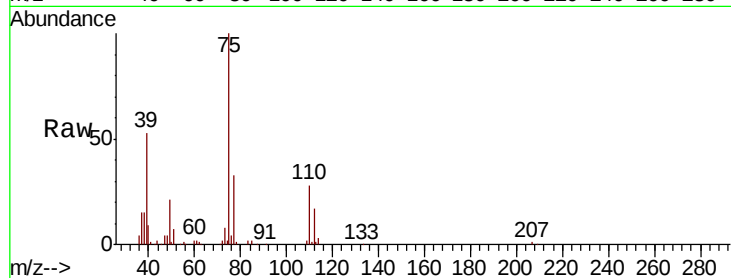
ClientSampleId :

Tot Ion: 75 Resp: 115717

Ion Ratio Lower Upper

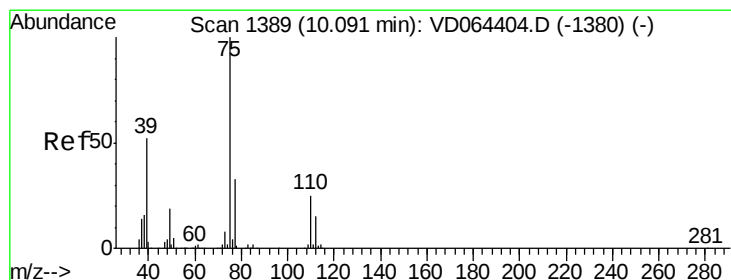
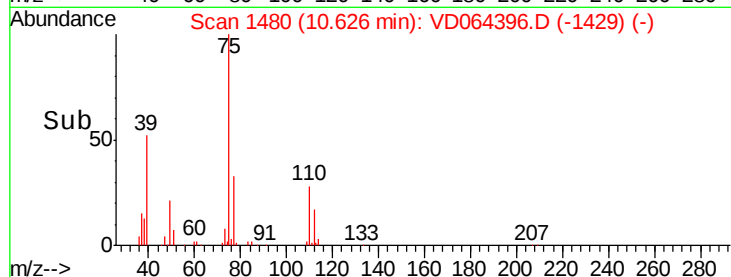
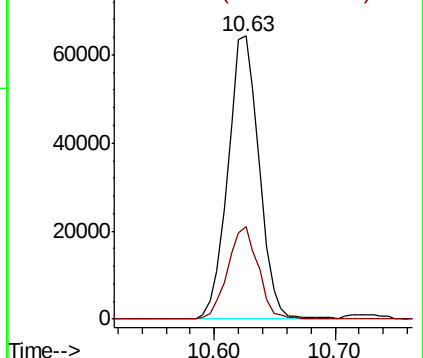
75 100

77 32.9 25.0 37.4



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#54

cis-1,3-Dichloropropene

Concen: 19.200 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

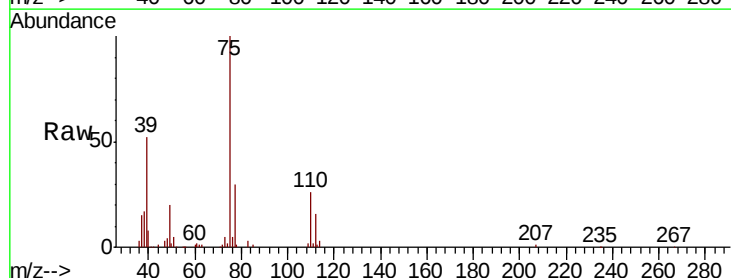
Tgt Ion: 75 Resp: 138573

Ion Ratio Lower Upper

75 100

77 30.0 26.1 39.1

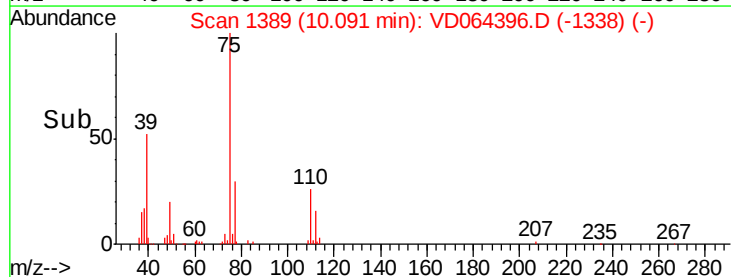
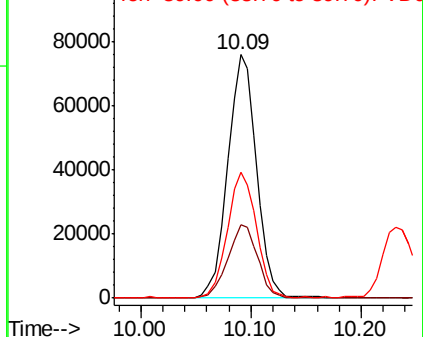
39 51.5 41.5 62.3

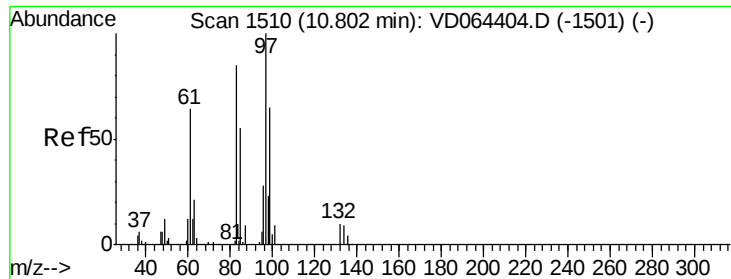


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC

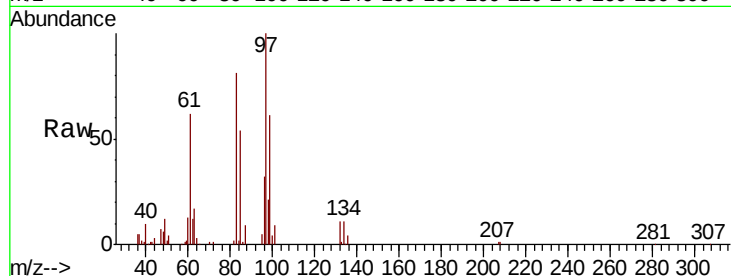




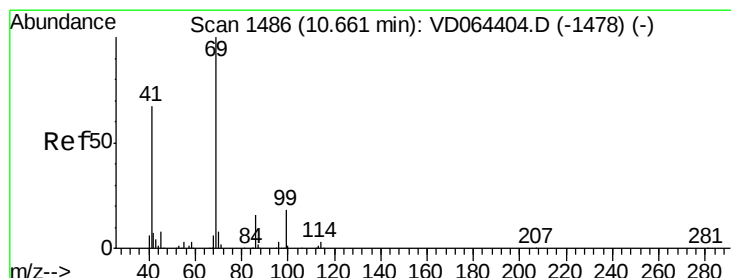
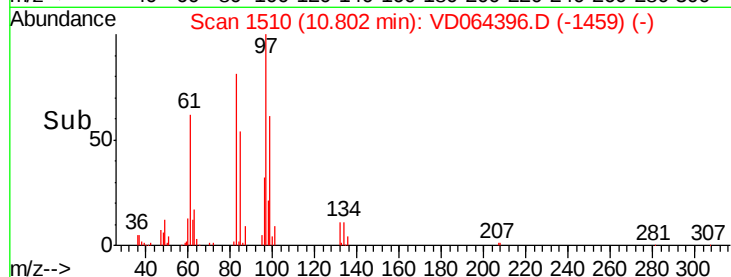
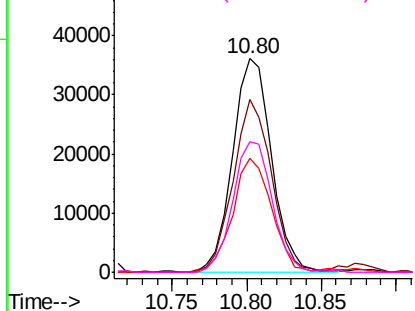
#55  
 1,1,2-Trichloroethane  
 Concen: 19.356 ug/l  
 RT: 10.80 min Scan# 1510  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

Instrument :  
 MSVOA\_D  
 ClientSampled :

Tot Ion: 97 Resp: 65755  
 Ion Ratio Lower Upper  
 97 100  
 83 80.7 67.8 101.8  
 85 53.6 43.7 65.5  
 99 61.1 51.7 77.5

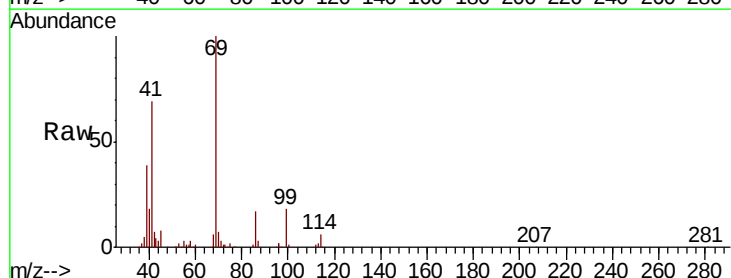


Abundance Ion 96.90 (96.60 to 97.60): VDC  
 Ion 82.90 (82.60 to 83.60): VDC  
 Ion 84.90 (84.60 to 85.60): VDC  
 Ion 98.90 (98.60 to 99.60): VDC

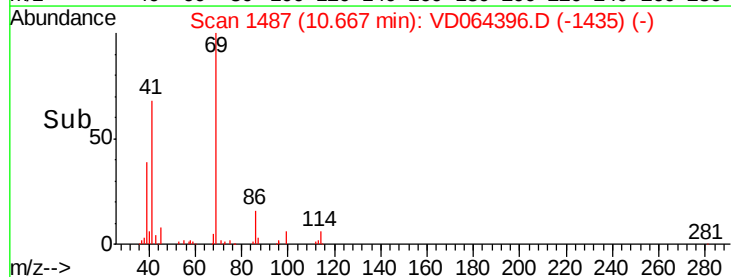
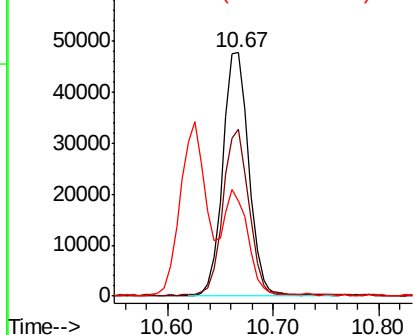


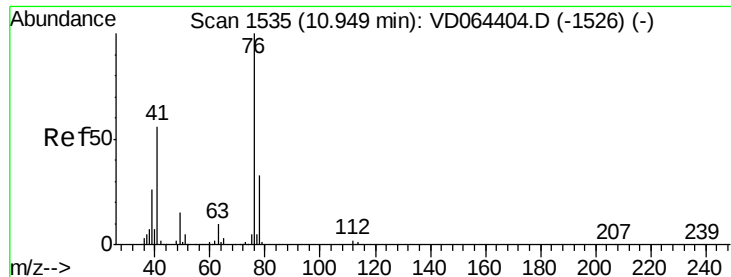
#56  
 Ethyl methacrylate  
 Concen: 18.939 ug/l  
 RT: 10.67 min Scan# 1487  
 Delta R.T. 0.01 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

Tgt Ion: 69 Resp: 82058  
 Ion Ratio Lower Upper  
 69 100  
 41 69.4 55.0 82.4  
 39 41.2 33.0 49.6



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





#57

1,3-Dichloropropane

Concen: 19.495 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

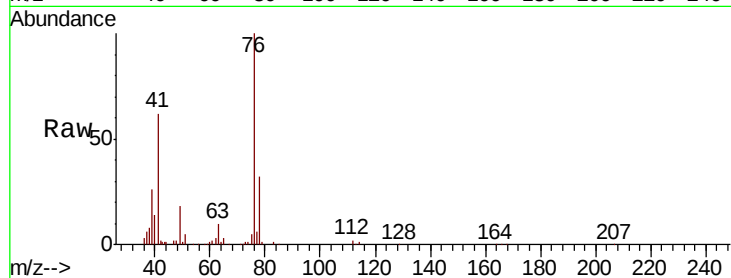
ClientSampleId :

Tot Ion: 76 Resp: 112736

Ion Ratio Lower Upper

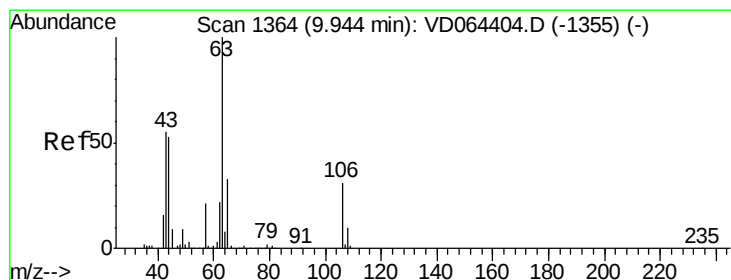
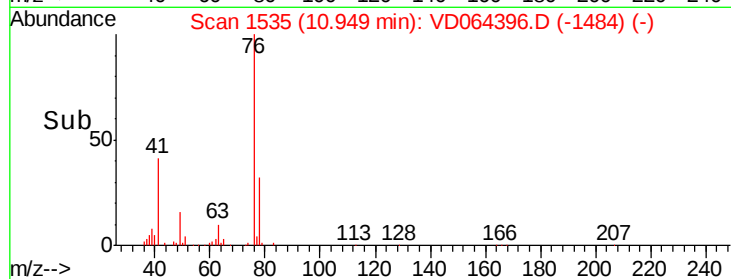
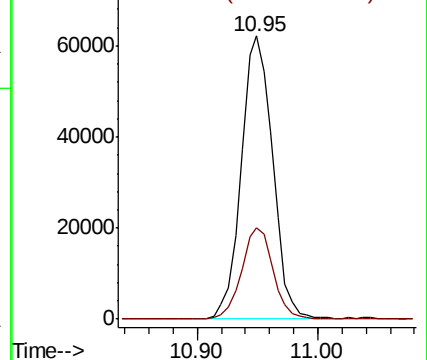
76 100

78 32.5 26.0 39.0



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 98.271 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD064396.D

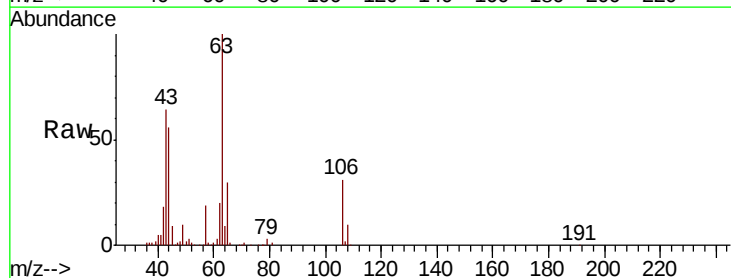
Acq: 27 Nov 2019 15:07

Tgt Ion: 63 Resp: 169736

Ion Ratio Lower Upper

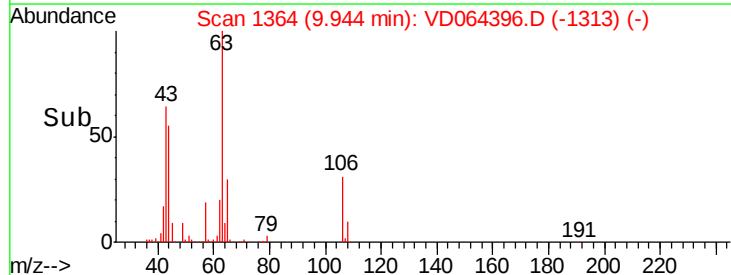
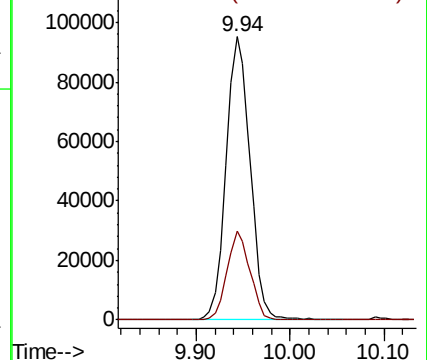
63 100

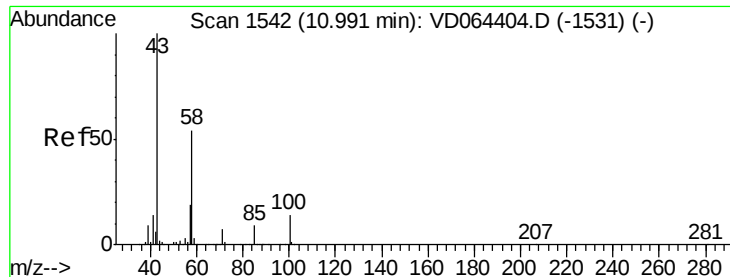
106 29.9 24.2 36.4



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

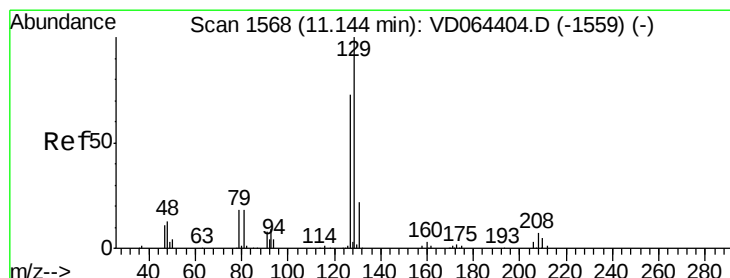
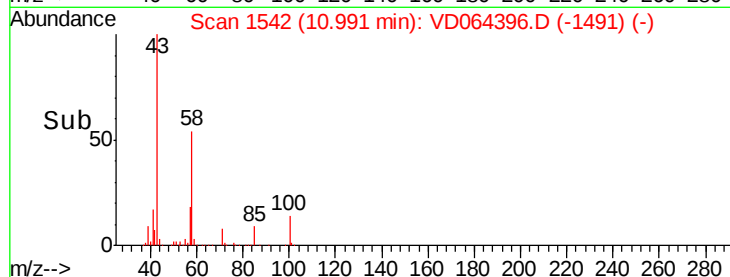
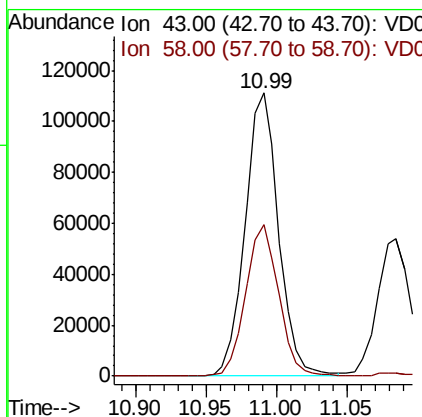
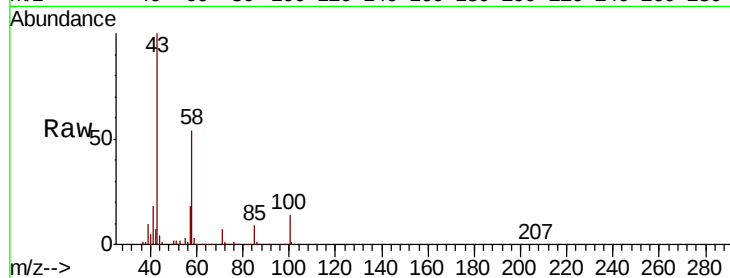




#59  
2-Hexanone  
Concen: 97.578 ug/l  
RT: 10.99 min Scan# 1542  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

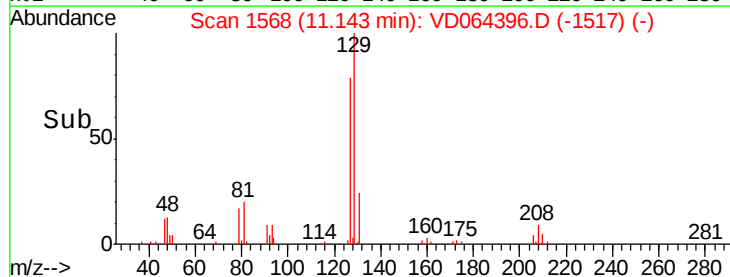
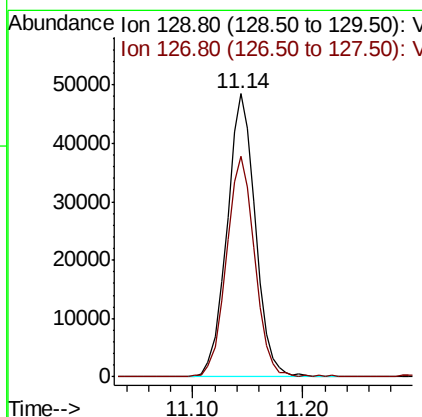
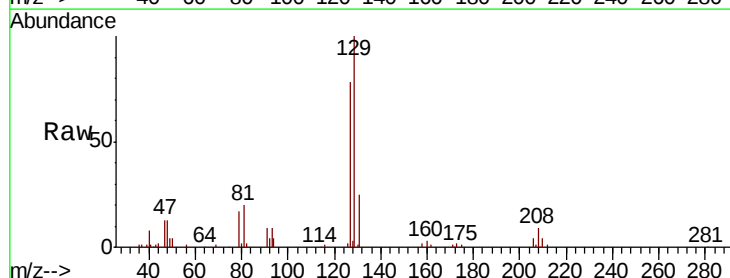
Instrument :  
MSVOA\_D  
ClientSampled :

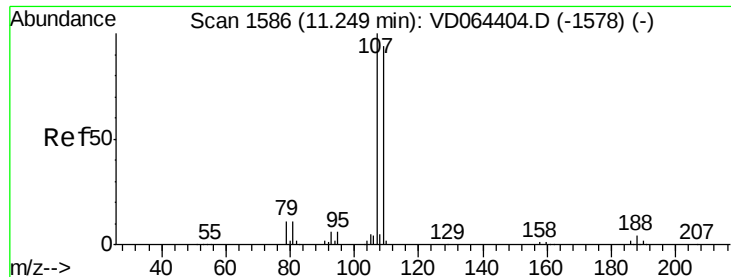
Tot Ion: 43 Resp: 184965  
Ion Ratio Lower Upper  
43 100  
58 52.8 26.3 78.8



#60  
Dibromochloromethane  
Concen: 18.888 ug/l  
RT: 11.14 min Scan# 1568  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 129 Resp: 86996  
Ion Ratio Lower Upper  
129 100  
127 77.8 38.1 114.3

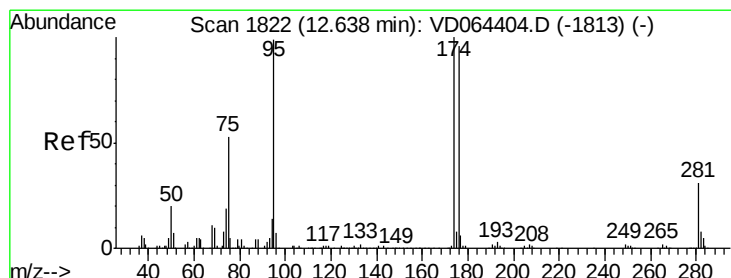
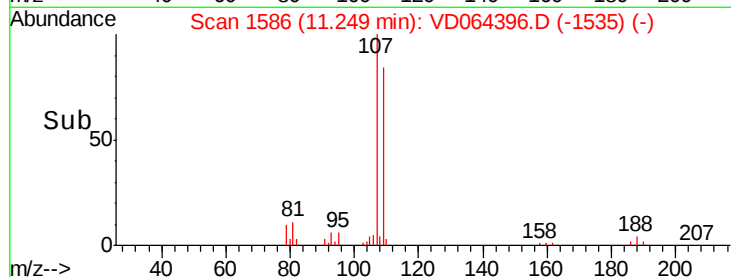
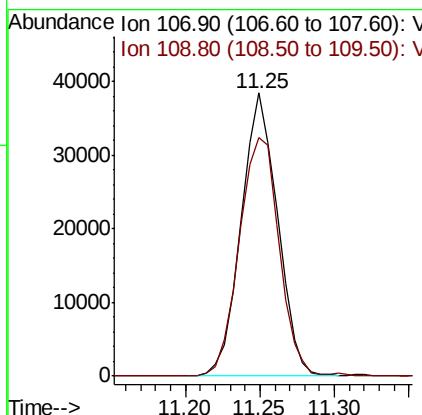
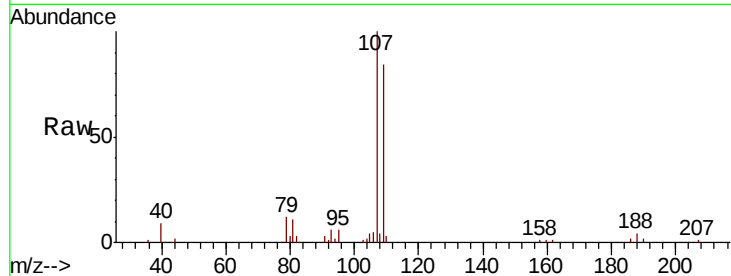




#61  
 1,2-Dibromoethane  
 Concen: 19.179 ug/l  
 RT: 11.25 min Scan# 1586  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

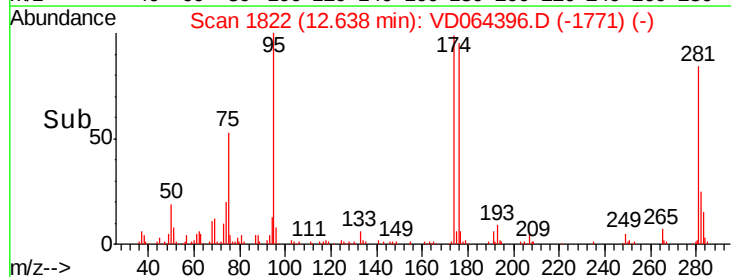
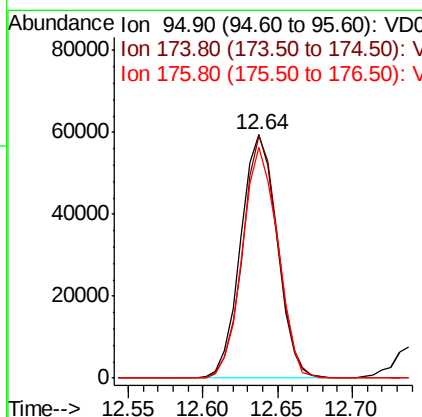
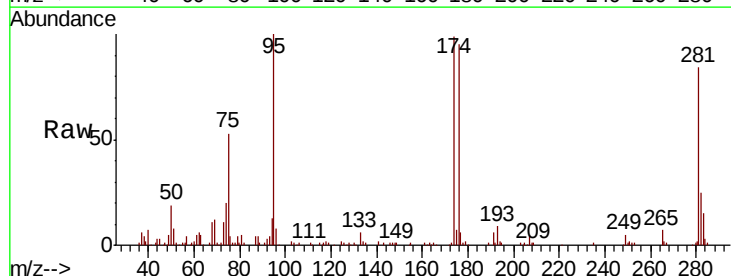
Instrument :  
 MSVOA\_D  
 ClientSampleId :

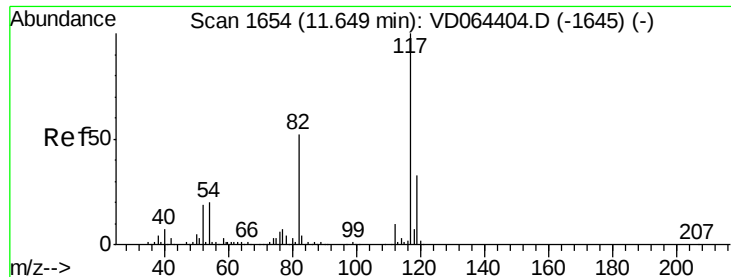
Tot Ion:107 Resp: 65052  
 Ion Ratio Lower Upper  
 107 100  
 109 92.4 76.2 114.2



#62  
 4-Bromofluorobenzene  
 Concen: 18.778 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

Tgt Ion: 95 Resp: 100208  
 Ion Ratio Lower Upper  
 95 100  
 174 95.9 0.0 197.2  
 176 92.4 0.0 189.6

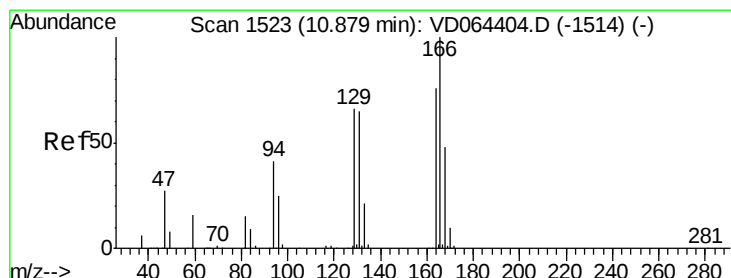
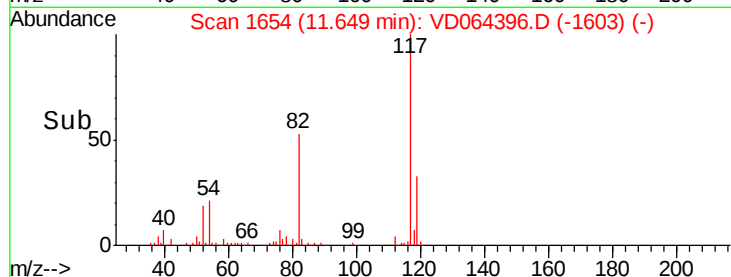
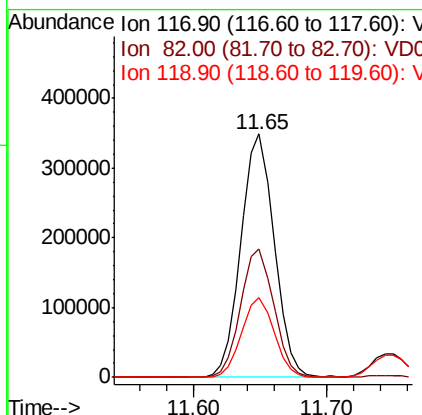
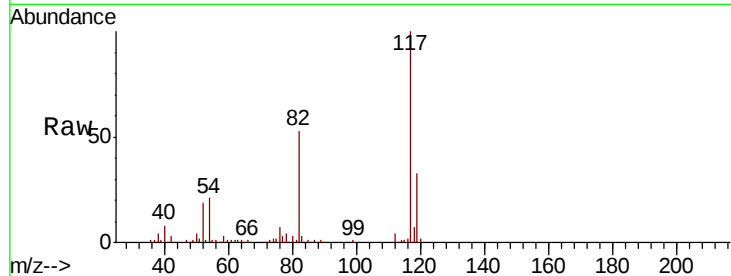




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

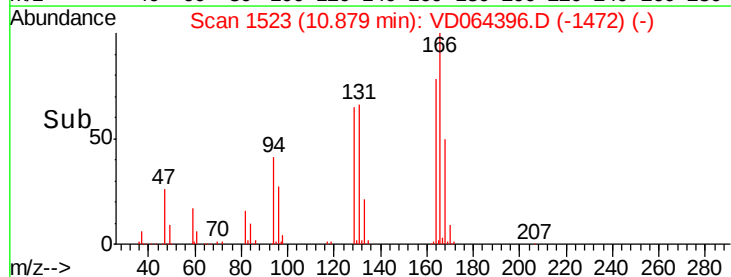
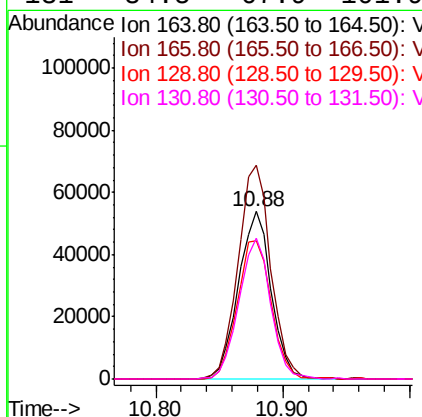
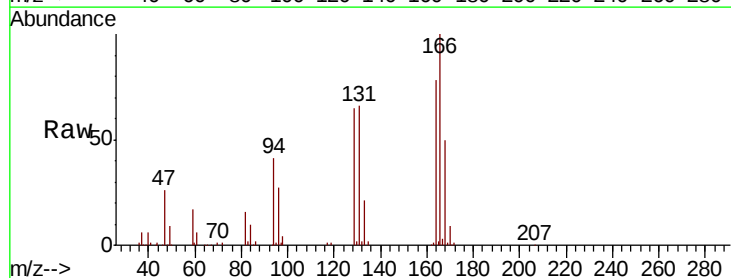
Instrument :  
MSVOA\_D  
ClientSampled :

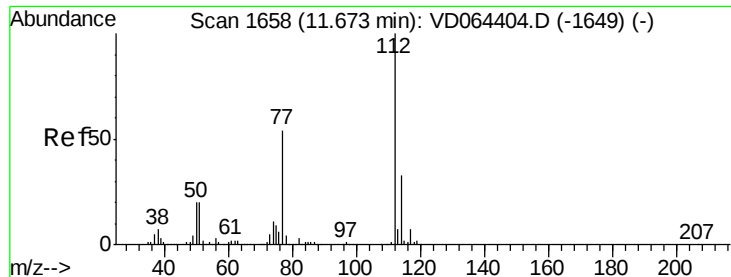
Tot Ion:117 Resp: 602739  
Ion Ratio Lower Upper  
117 100  
82 52.8 41.4 62.2  
119 32.9 26.2 39.2



#64  
Tetrachloroethene  
Concen: 21.018 ug/l  
RT: 10.88 min Scan# 1523  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion:164 Resp: 96605  
Ion Ratio Lower Upper  
164 100  
166 127.7 104.8 157.2  
129 83.0 68.7 103.1  
131 84.5 67.9 101.9

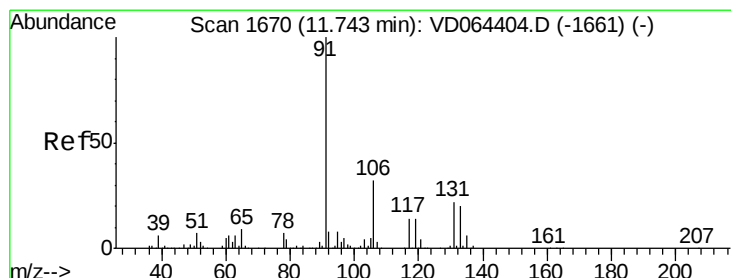
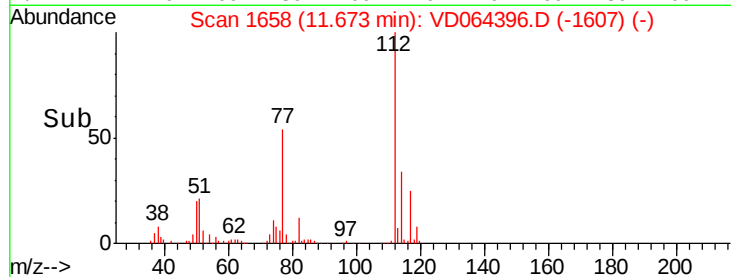
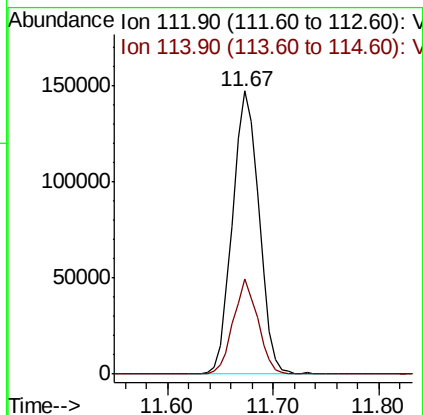
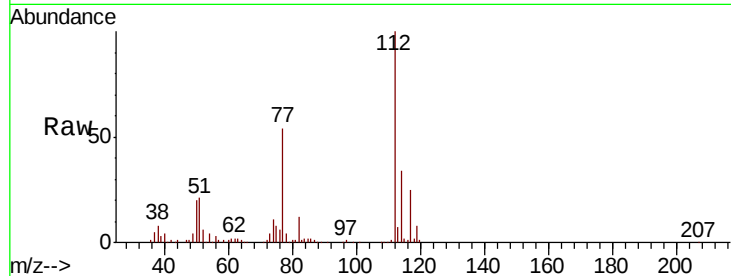




#65  
Chlorobenzene  
Concen: 20.328 ug/l  
RT: 11.67 min Scan# 1658  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

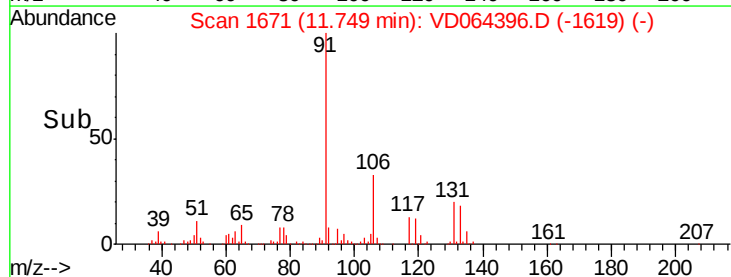
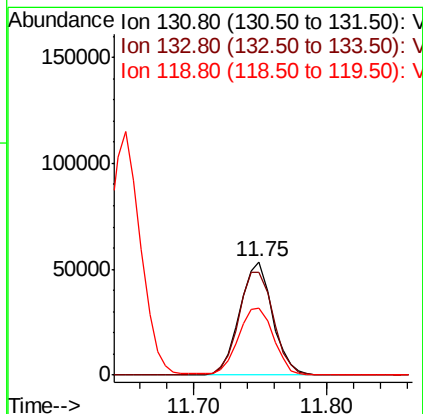
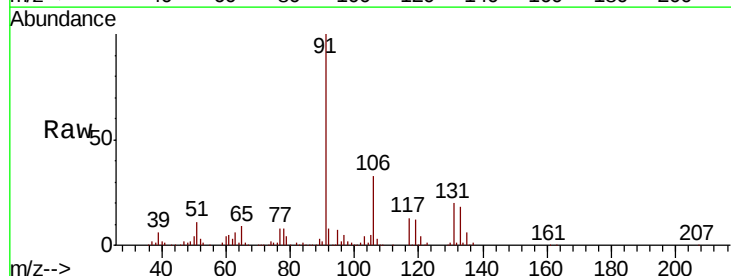
Instrument :  
MSVOA\_D  
ClientSampleId :

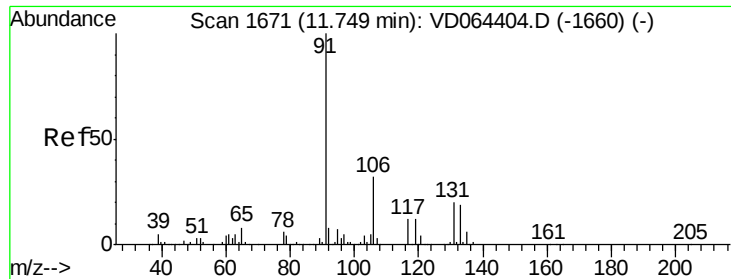
Tot Ion:112 Resp: 255546  
Ion Ratio Lower Upper  
112 100  
114 33.5 26.5 39.7



#66  
1,1,1,2-Tetrachloroethane  
Concen: 19.499 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. 0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion:131 Resp: 90742  
Ion Ratio Lower Upper  
131 100  
133 97.7 48.3 144.9  
119 63.8 31.9 95.9





#67

Ethyl Benzene

Concen: 20.164 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

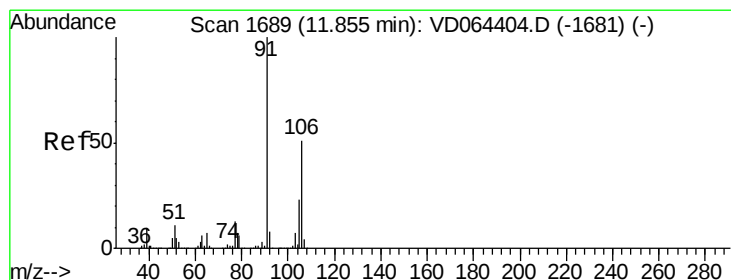
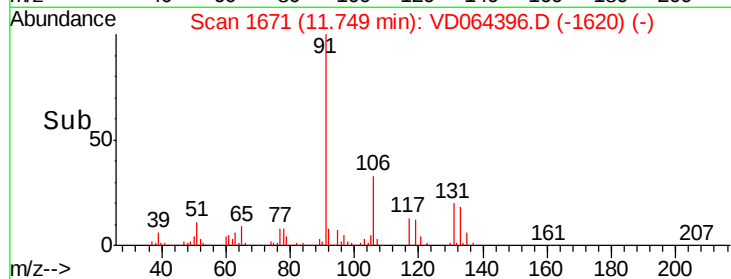
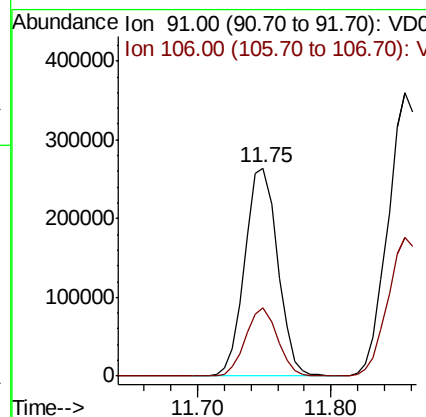
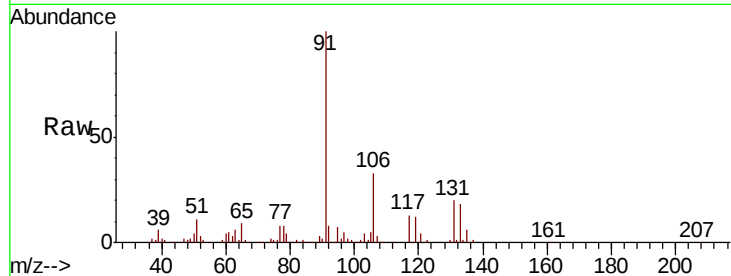
ClientSampleId :

Tot Ion: 91 Resp: 451009

Ion Ratio Lower Upper

91 100

106 32.7 25.8 38.8



#68

m/p-Xylenes

Concen: 39.803 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD064396.D

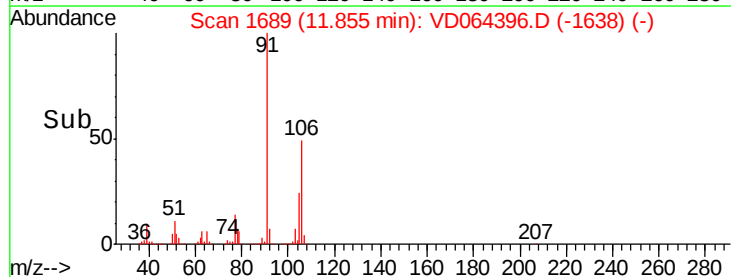
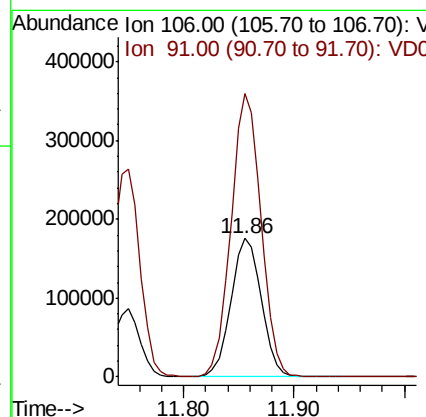
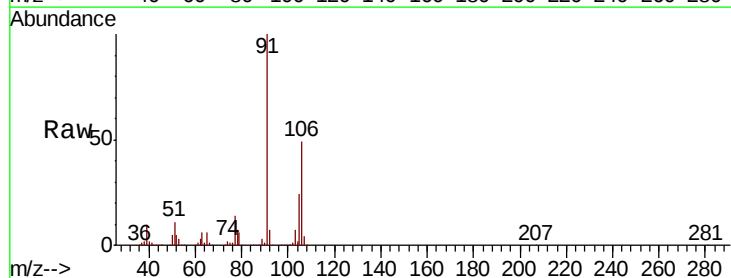
Acq: 27 Nov 2019 15:07

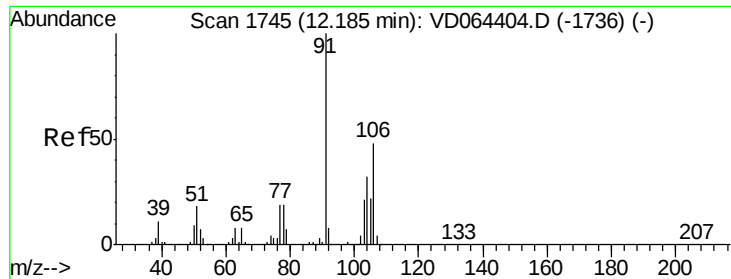
Tgt Ion: 106 Resp: 339453

Ion Ratio Lower Upper

106 100

91 201.8 157.4 236.2

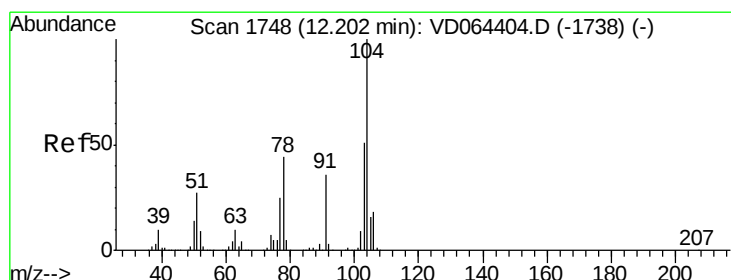
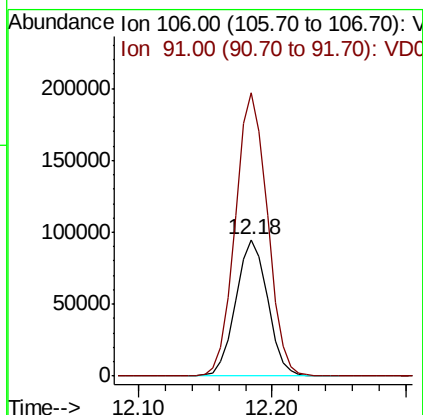
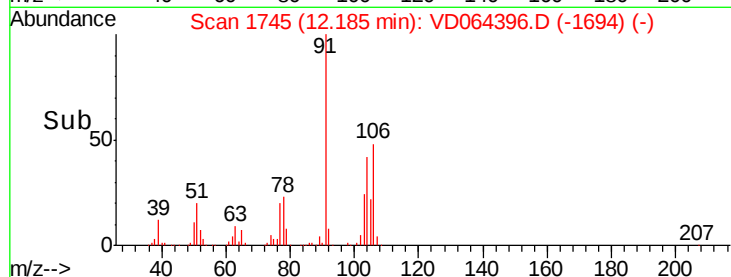
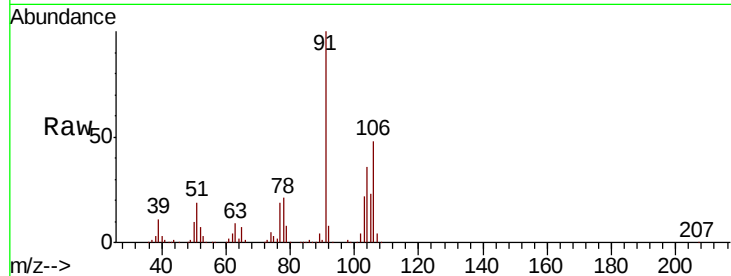




#69  
o-Xylene  
Concen: 19.893 ug/l  
RT: 12.18 min Scan# 1745  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

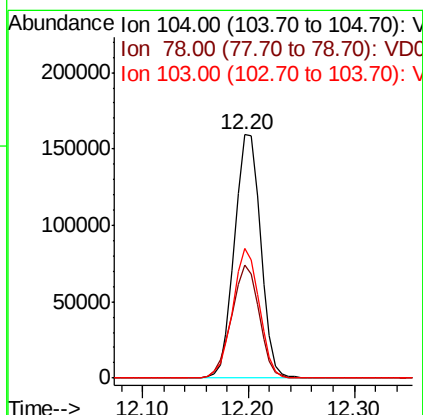
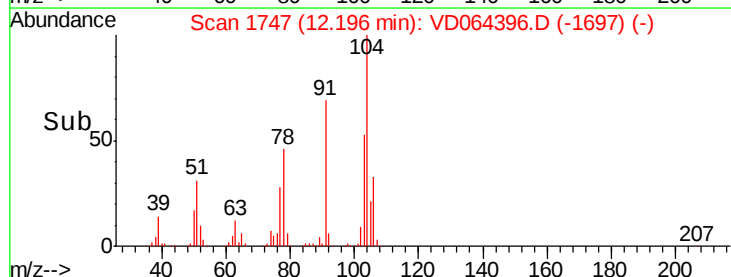
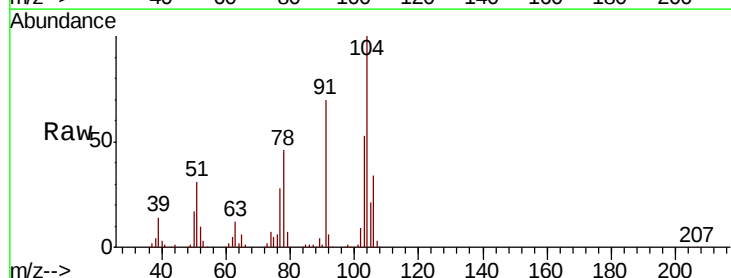
Instrument :  
MSVOA\_D  
ClientSampled :

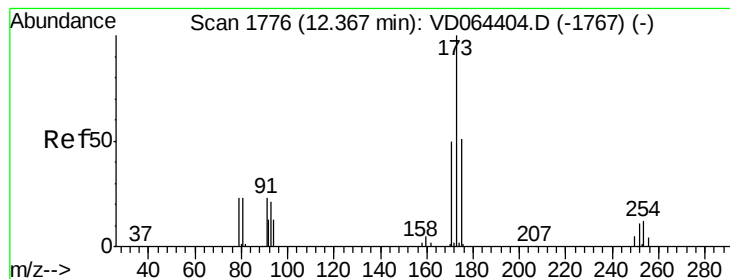
Tot Ion:106 Resp: 156686  
Ion Ratio Lower Upper  
106 100  
91 209.7 103.8 311.4



#70  
Styrene  
Concen: 19.935 ug/l  
RT: 12.20 min Scan# 1747  
Delta R.T. -0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion:104 Resp: 272853  
Ion Ratio Lower Upper  
104 100  
78 48.8 38.8 58.2  
103 54.1 44.2 66.4





#71

Bromoform

Concen: 19.303 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

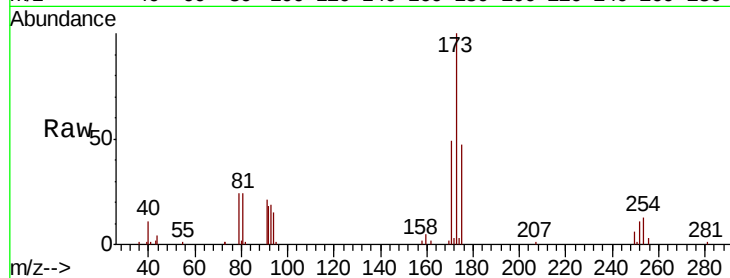
Tot Ion:173 Resp: 53743

Ion Ratio Lower Upper

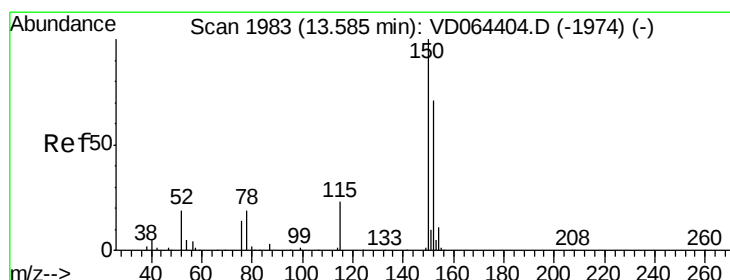
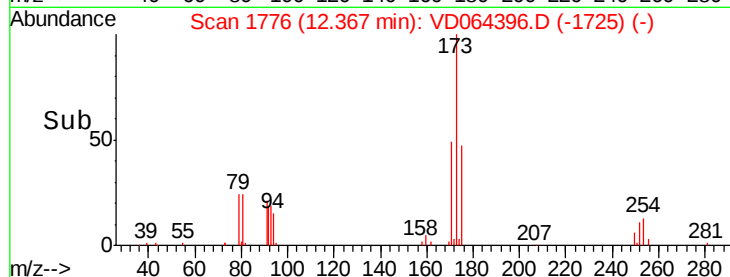
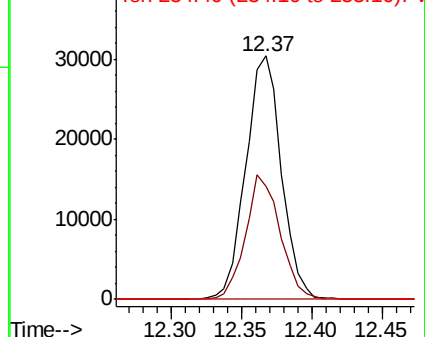
173 100

175 49.5 25.3 75.8

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

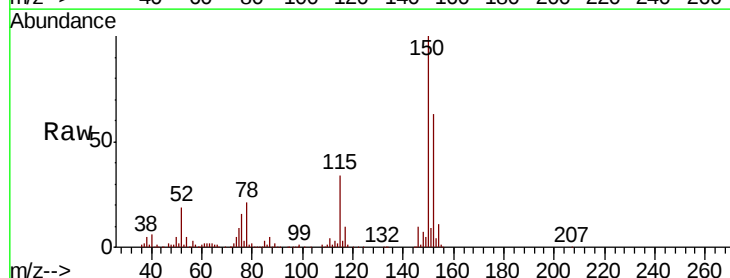
Tgt Ion:152 Resp: 290507

Ion Ratio Lower Upper

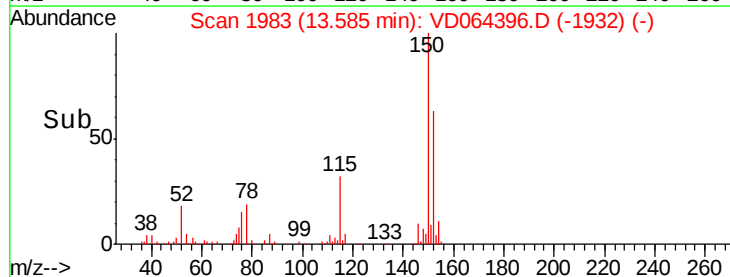
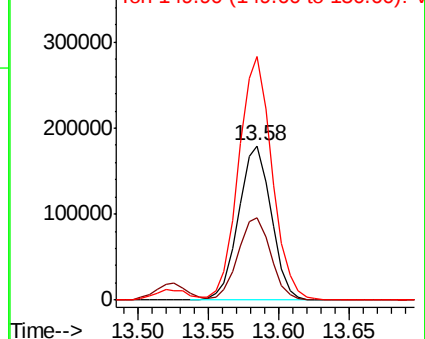
152 100

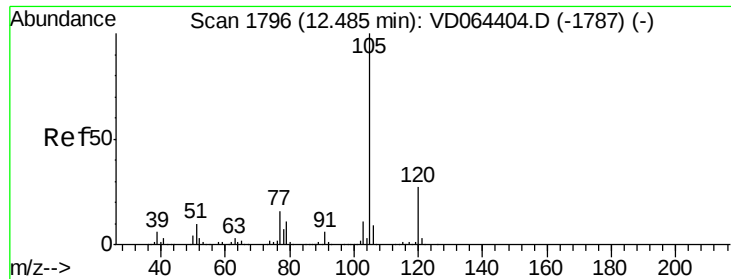
115 53.7 26.7 80.1

150 161.5 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.524 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

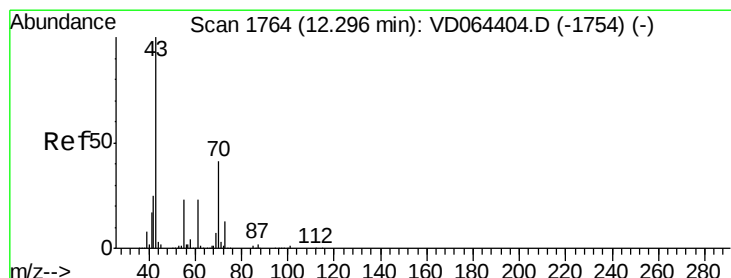
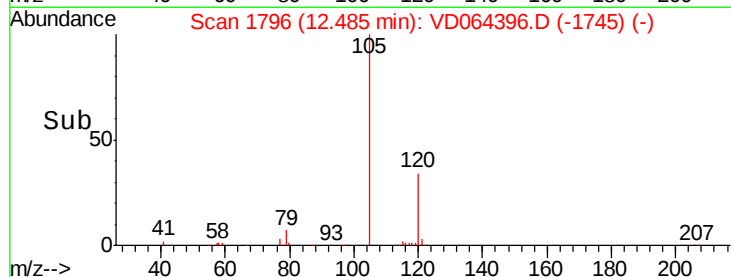
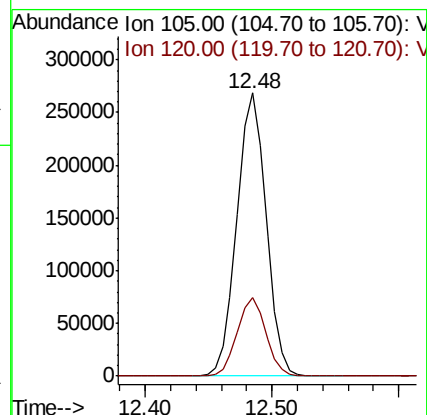
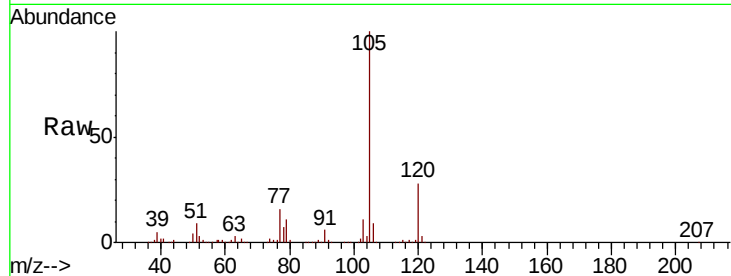
ClientSampleId :

Tot Ion:105 Resp: 428825

Ion Ratio Lower Upper

105 100

120 27.2 13.4 40.2



#74

N-ethyl acetate

Concen: 19.452 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Tgt Ion: 43 Resp: 92241

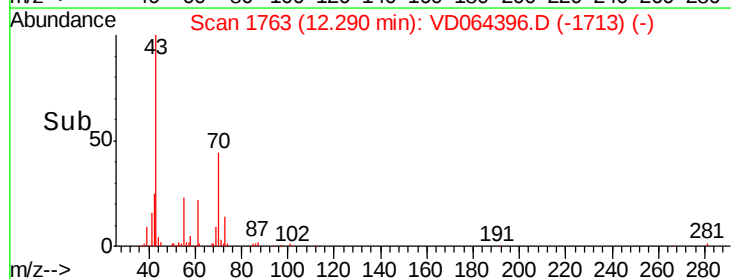
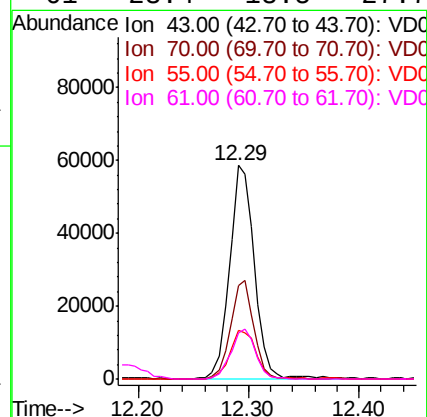
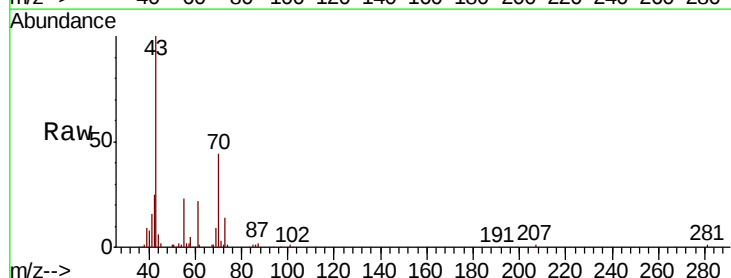
Ion Ratio Lower Upper

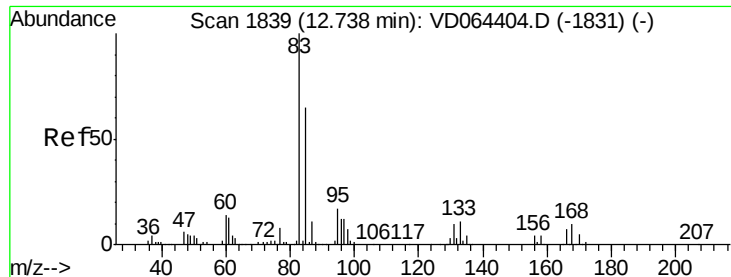
43 100

70 43.3 33.4 50.2

55 24.0 18.9 28.3

61 23.4 18.5 27.7





#75

1,1,2,2-Tetrachloroethane

Concen: 20.264 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

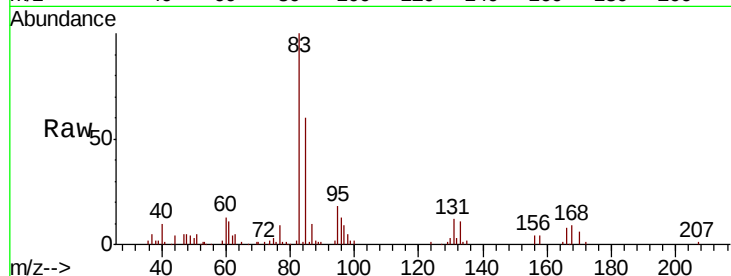
Tot Ion: 83 Resp: 70015

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 11.6  | 5.7   | 17.0  |
| 85  | 62.0  | 31.3  | 93.9  |

83 100

131 11.6 5.7 17.0

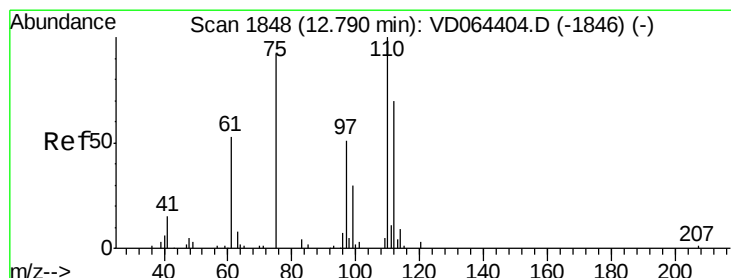
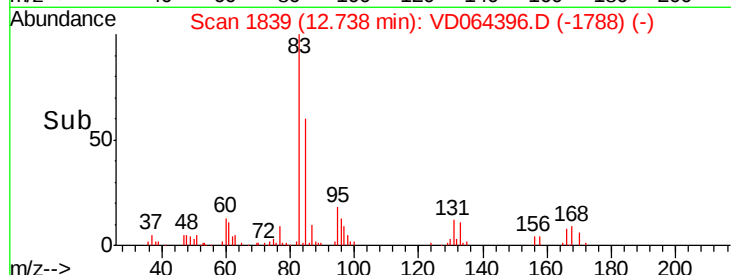
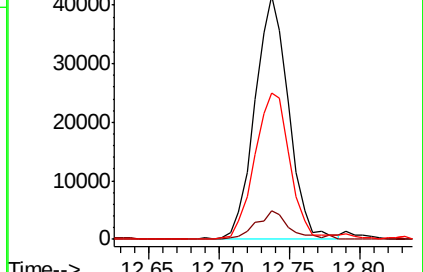
85 62.0 31.3 93.9



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 37.796 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. -0.00 min

Lab File: VD064396.D

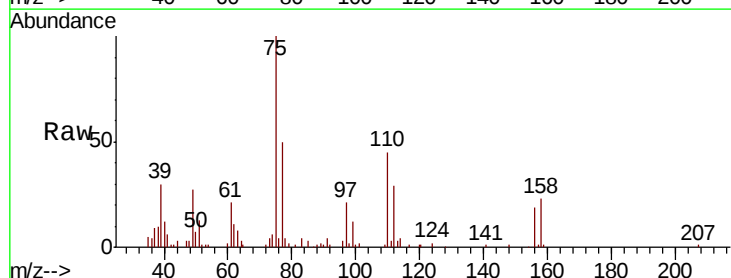
Acq: 27 Nov 2019 15:07

Tgt Ion: 75 Resp: 90296

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 0.0   | 0.0   | 0.0   |

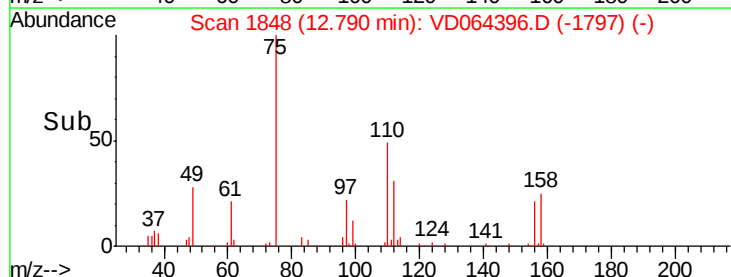
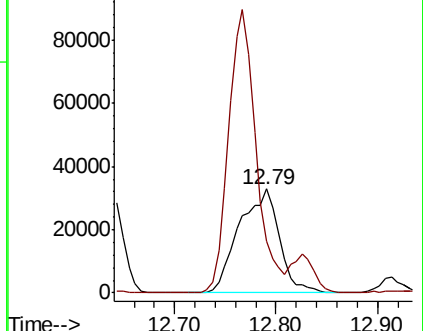
75 100

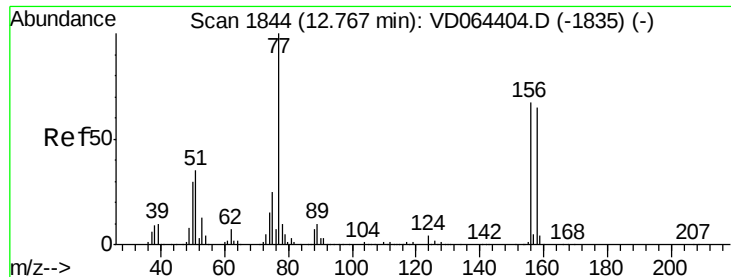
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 20.629 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

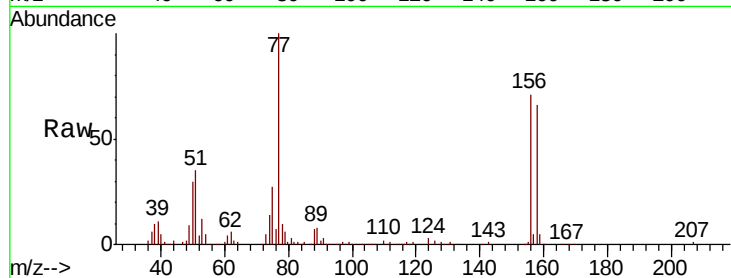
Tot Ion:156 Resp: 106435

Ion Ratio Lower Upper

156 100

77 158.9 80.0 240.2

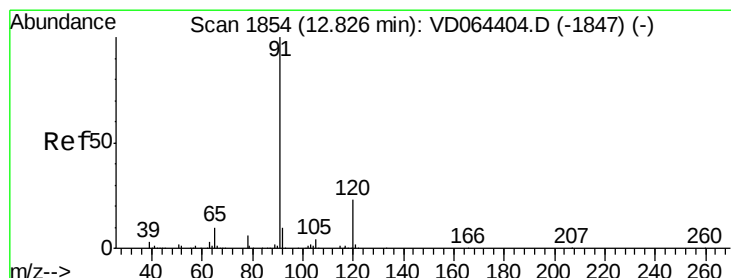
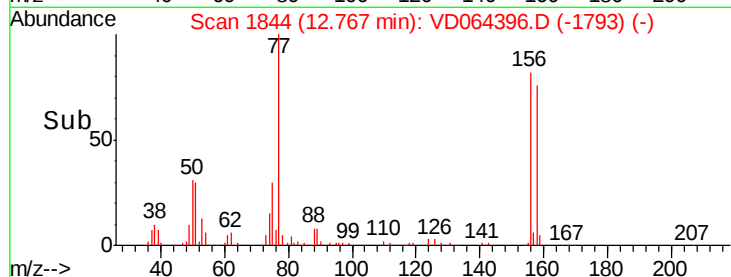
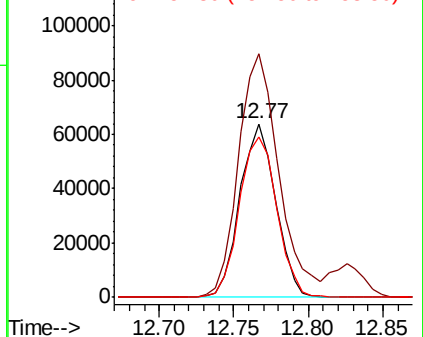
158 96.6 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.146 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD064396.D

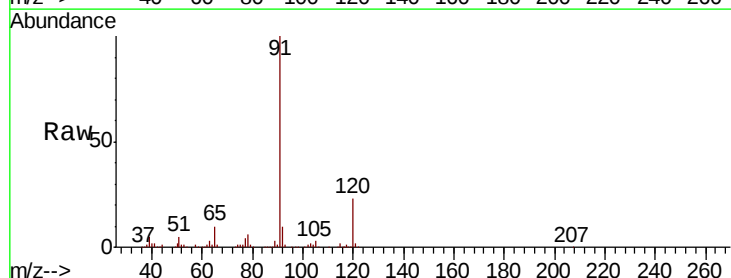
Acq: 27 Nov 2019 15:07

Tgt Ion: 91 Resp: 509758

Ion Ratio Lower Upper

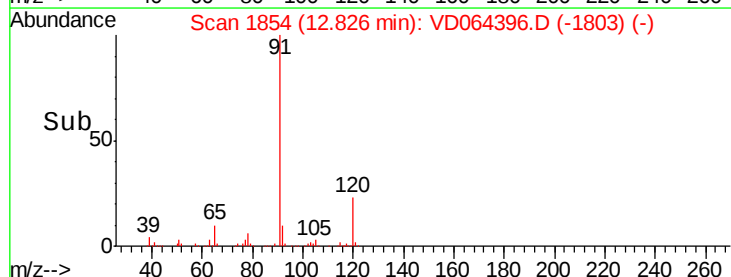
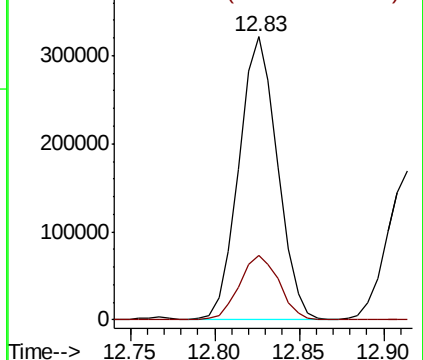
91 100

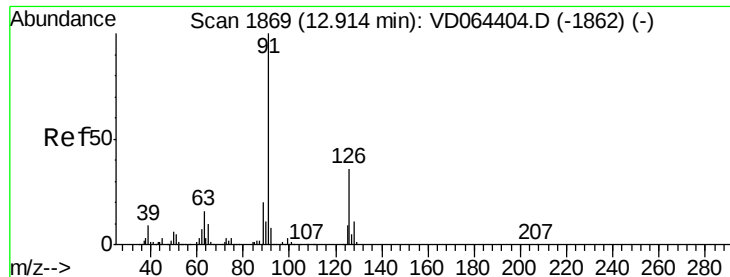
120 23.5 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

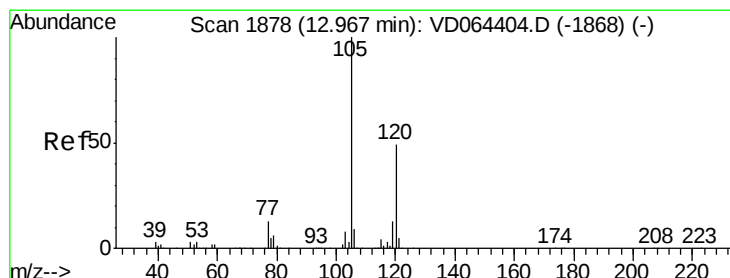
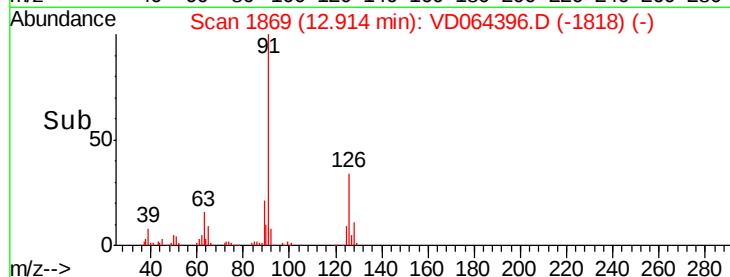
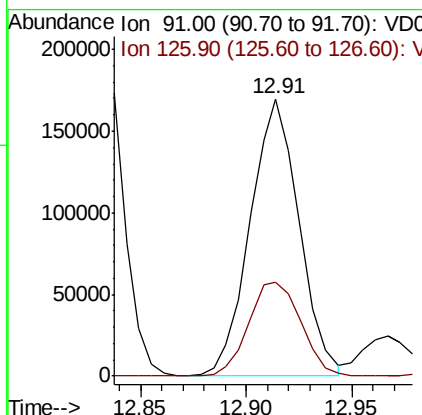
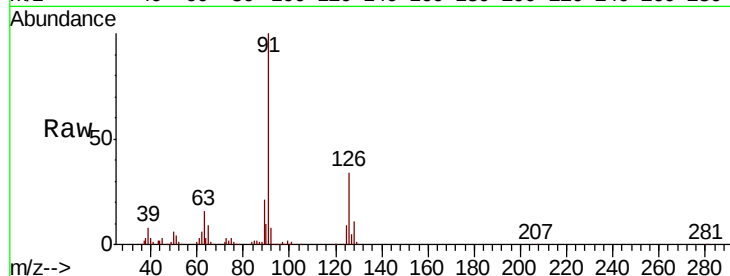




#79  
 2-Chlorotoluene  
 Concen: 20.586 ug/l  
 RT: 12.91 min Scan# 1869  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

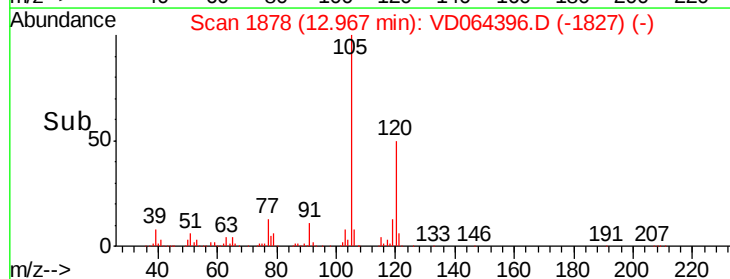
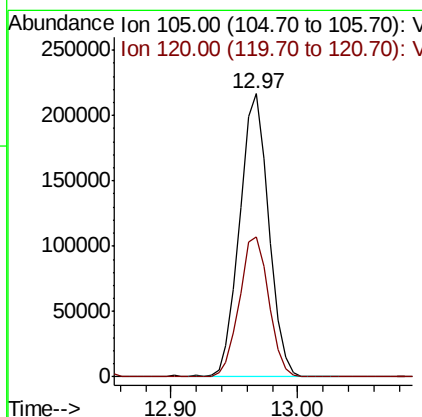
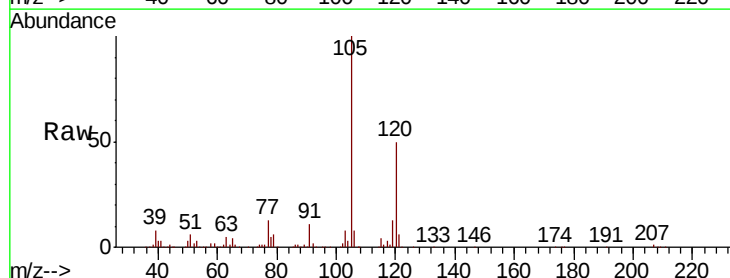
Instrument :  
 MSVOA\_D  
 ClientSampleId :

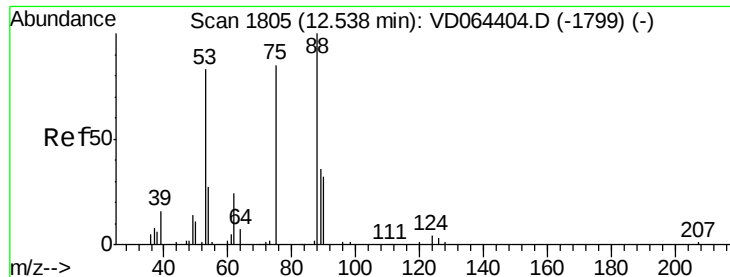
Tot Ion: 91 Resp: 273068  
 Ion Ratio Lower Upper  
 91 100  
 126 36.4 18.0 54.0



#80  
 1,3,5-Trimethylbenzene  
 Concen: 20.241 ug/l  
 RT: 12.97 min Scan# 1878  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

Tgt Ion: 105 Resp: 345591  
 Ion Ratio Lower Upper  
 105 100  
 120 50.3 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 20.761 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. -0.01 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

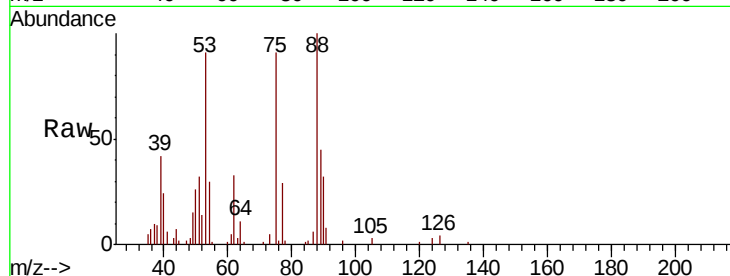
Tot Ion: 75 Resp: 22746

Ion Ratio Lower Upper

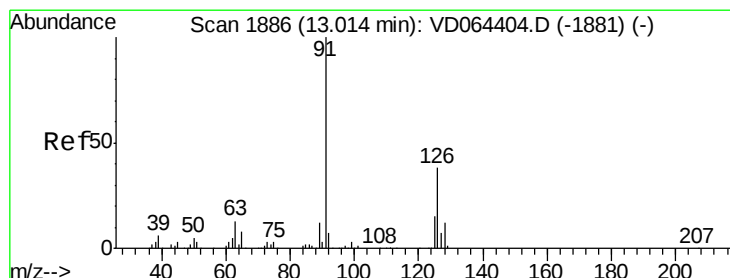
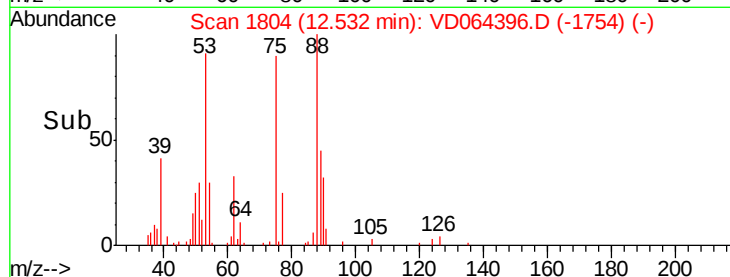
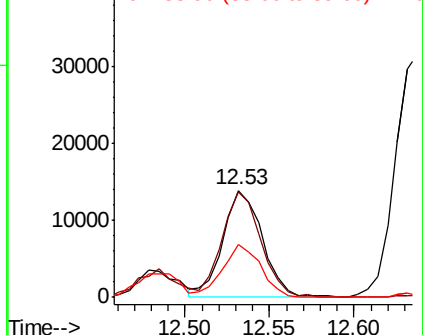
75 100

53 96.4 81.0 121.6

89 48.1 38.5 57.7



Abundance Ion 74.90 (74.60 to 75.60): VDC  
Ion 53.00 (52.70 to 53.70): VDC  
Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 19.989 ug/l

RT: 13.01 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VD064396.D

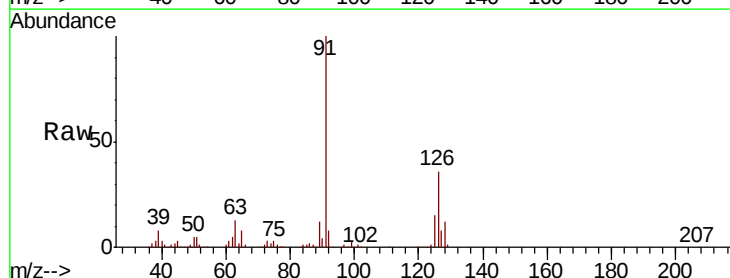
Acq: 27 Nov 2019 15:07

Tgt Ion: 91 Resp: 280742

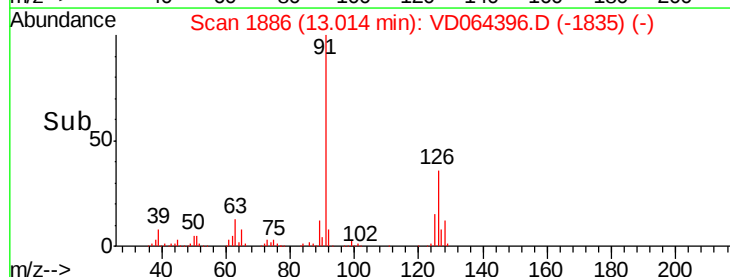
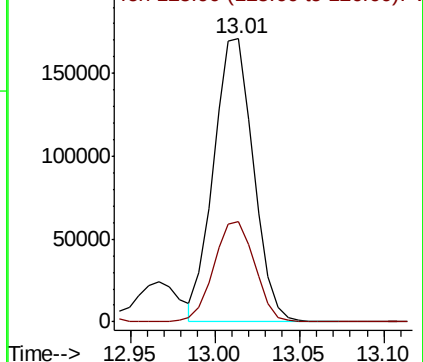
Ion Ratio Lower Upper

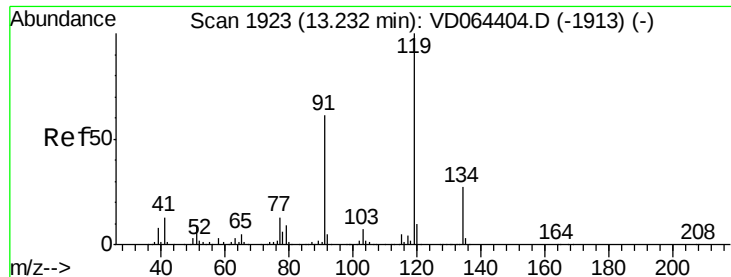
91 100

126 36.5 18.2 54.6



Abundance Ion 91.00 (90.70 to 91.70): VDC  
Ion 125.90 (125.60 to 126.60): V

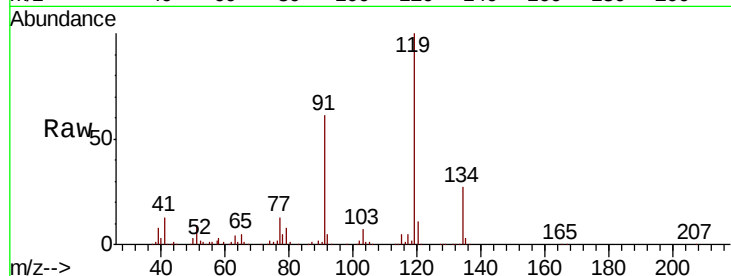




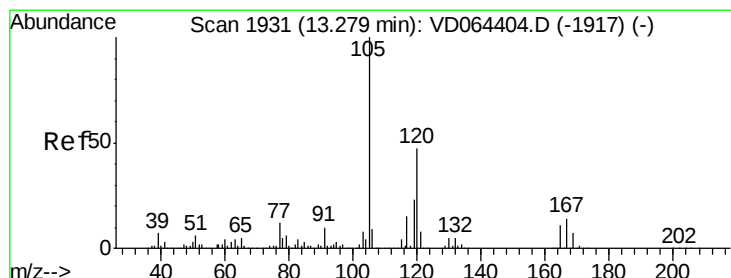
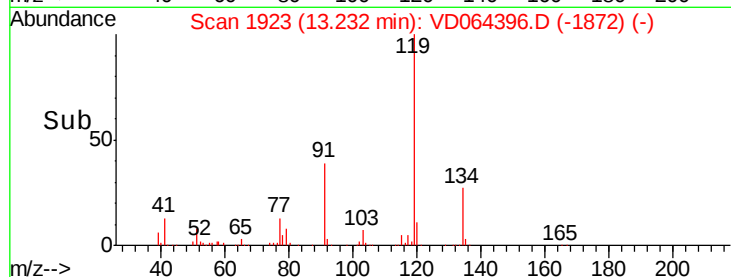
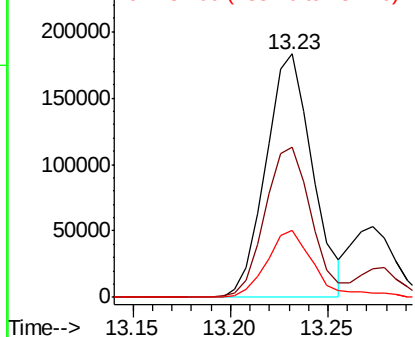
#83  
tert-Butylbenzene  
Concen: 20.371 ug/l  
RT: 13.23 min Scan# 1923  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Instrument :  
MSVOA\_D  
ClientSampleID :

Tot Ion:119 Resp: 302381  
Ion Ratio Lower Upper  
119 100  
91 61.4 31.2 93.6  
134 28.3 13.9 41.7

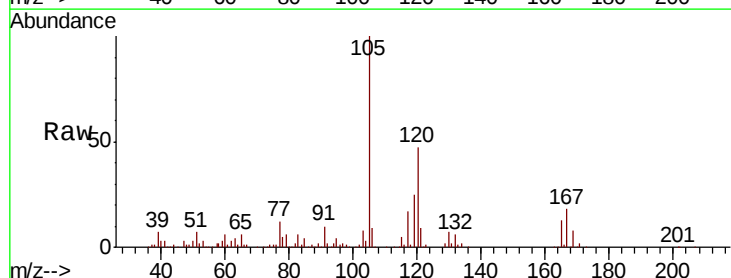


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

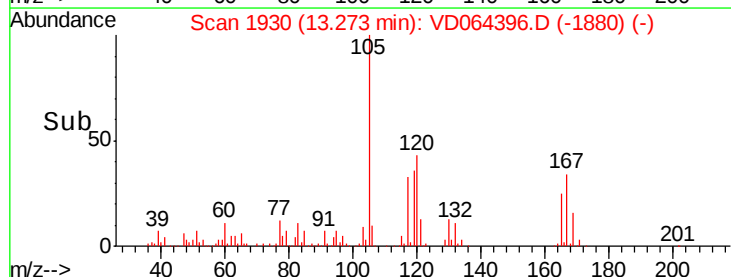
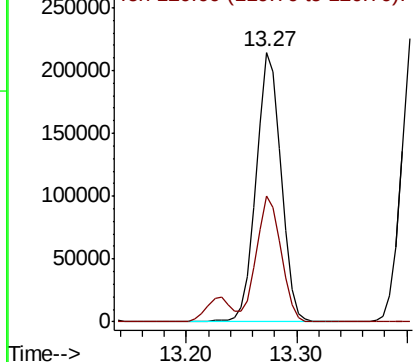


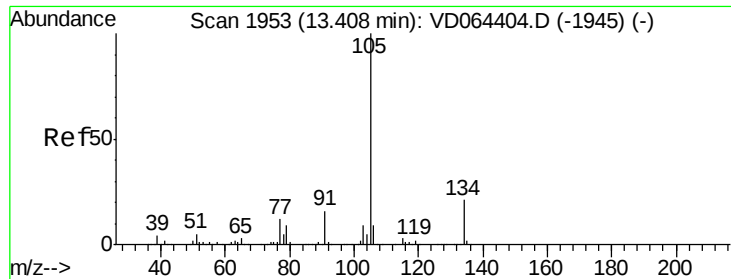
#84  
1,2,4-Trimethylbenzene  
Concen: 19.873 ug/l  
RT: 13.27 min Scan# 1930  
Delta R.T. -0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion:105 Resp: 341184  
Ion Ratio Lower Upper  
105 100  
120 45.7 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.607 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

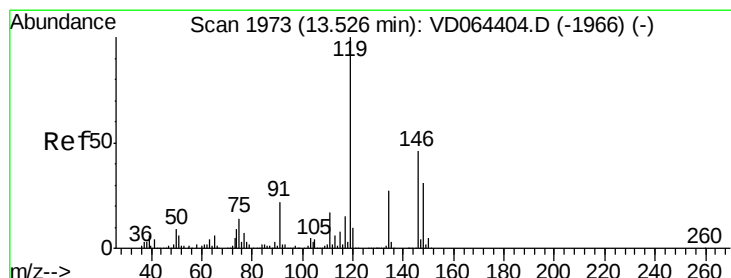
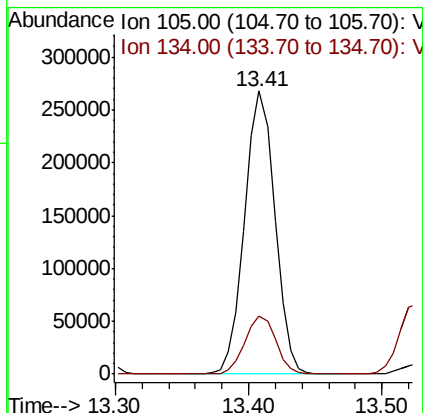
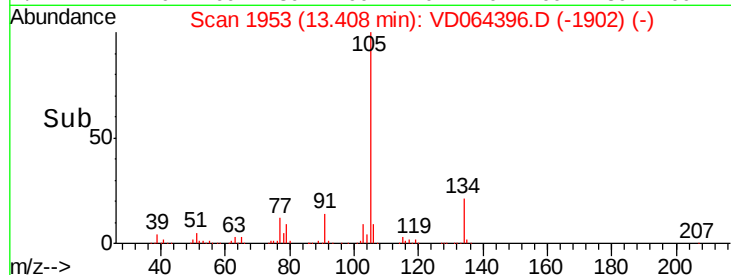
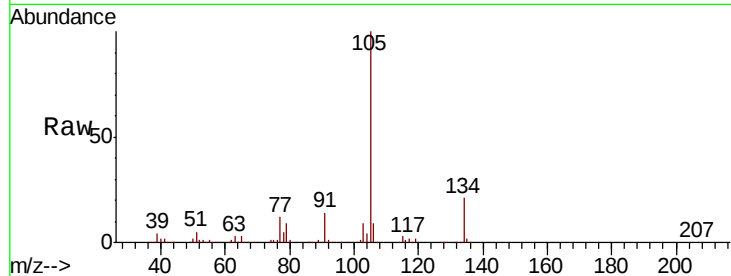
ClientSampleId :

Tot Ion:105 Resp: 419819

Ion Ratio Lower Upper

105 100

134 21.1 10.5 31.5



#86

p-Isopropyltoluene

Concen: 20.160 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

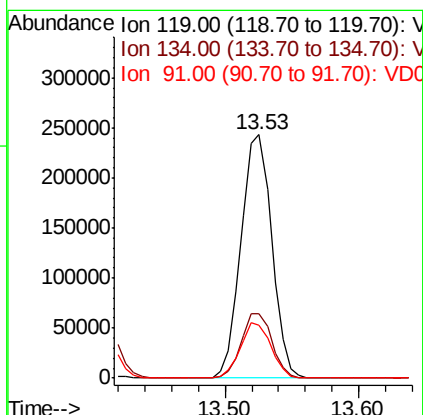
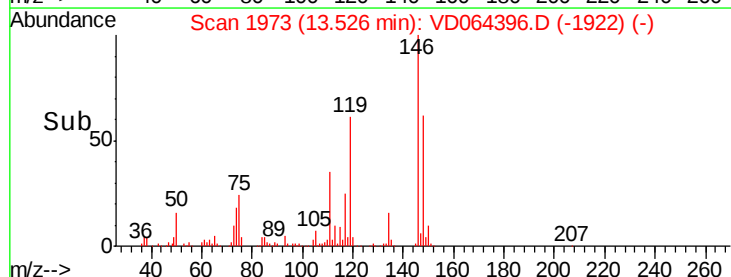
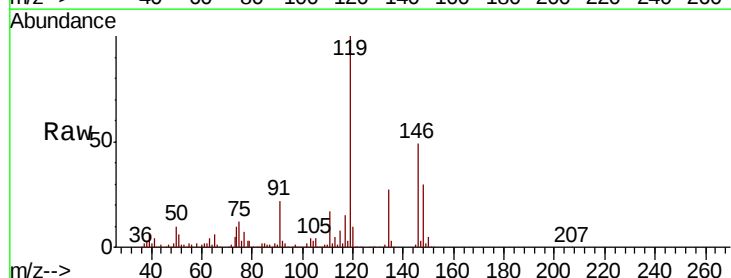
Tgt Ion:119 Resp: 387746

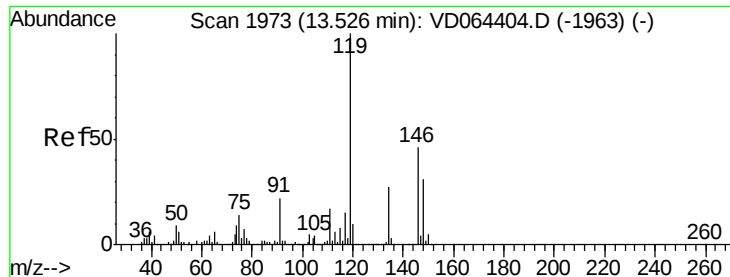
Ion Ratio Lower Upper

119 100

134 26.6 13.5 40.4

91 22.3 11.2 33.5

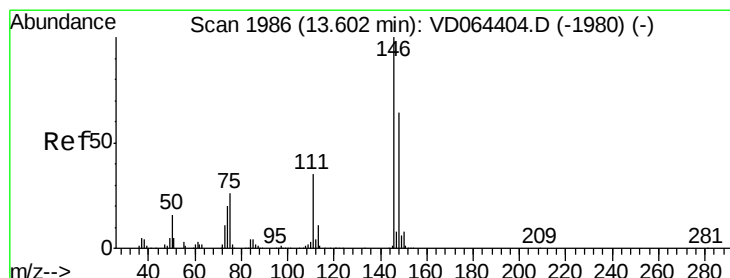
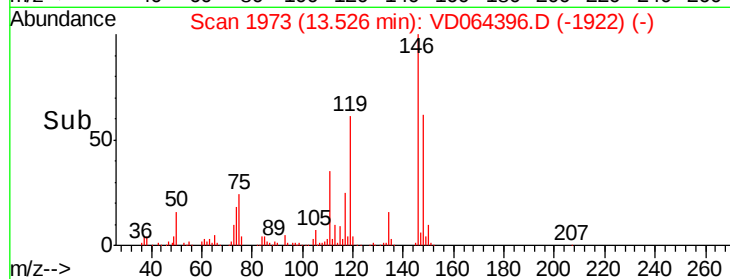
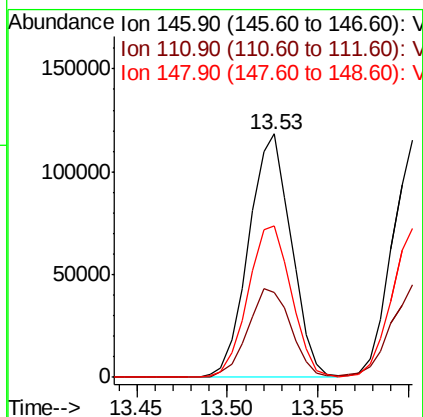
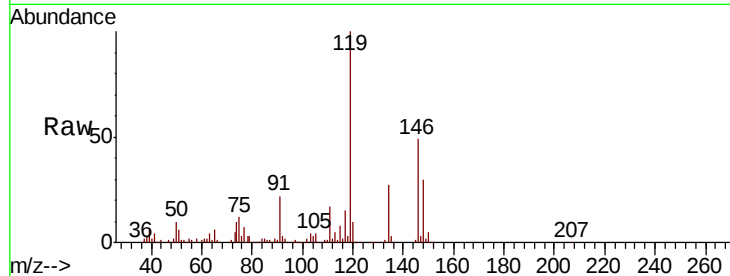




#87  
 1,3-Dichlorobenzene  
 Concen: 19.687 ug/l  
 RT: 13.53 min Scan# 1973  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

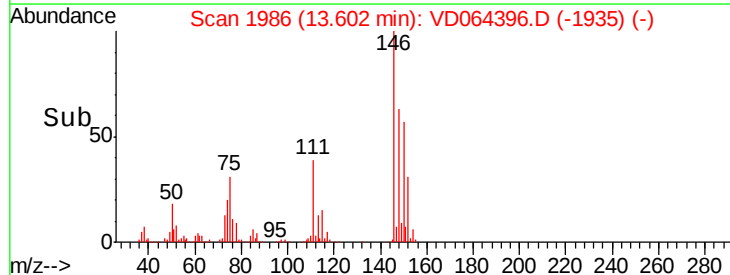
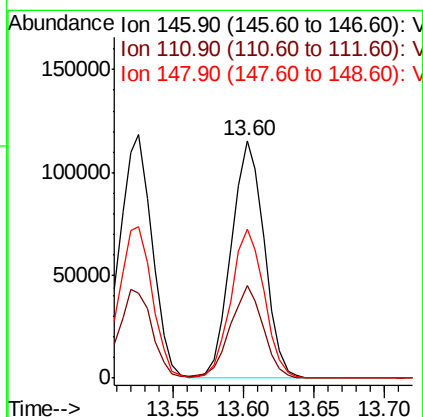
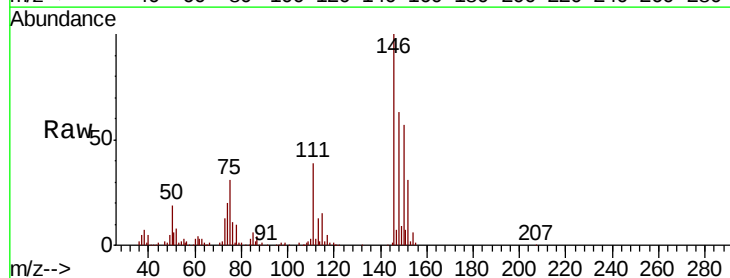
Instrument :  
 MSVOA\_D  
 ClientSampleId :

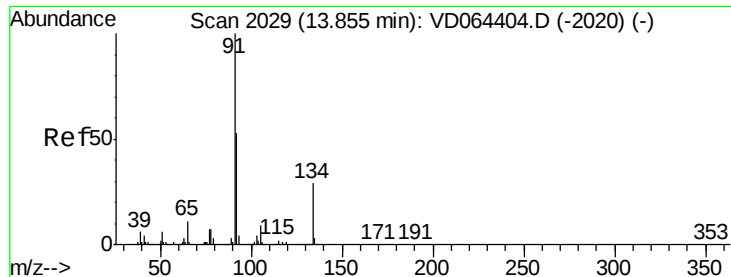
Tot Ion:146 Resp: 192791  
 Ion Ratio Lower Upper  
 146 100  
 111 37.3 18.8 56.4  
 148 63.4 32.6 97.8



#88  
 1,4-Dichlorobenzene  
 Concen: 19.436 ug/l  
 RT: 13.60 min Scan# 1986  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

Tgt Ion:146 Resp: 187914  
 Ion Ratio Lower Upper  
 146 100  
 111 39.0 18.2 54.6  
 148 63.3 31.8 95.4

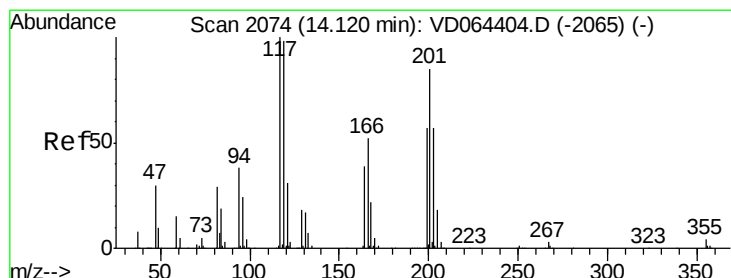
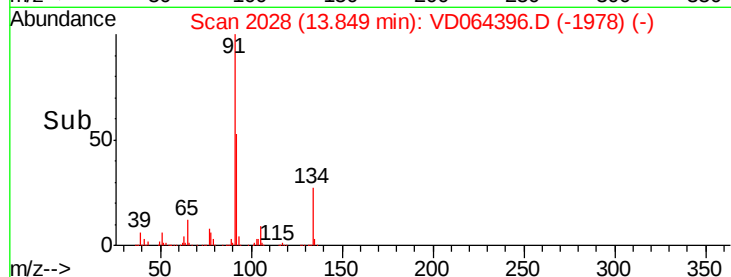
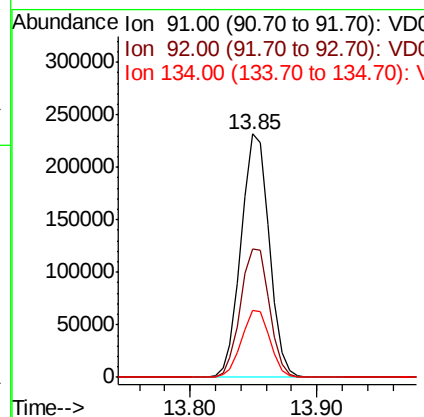
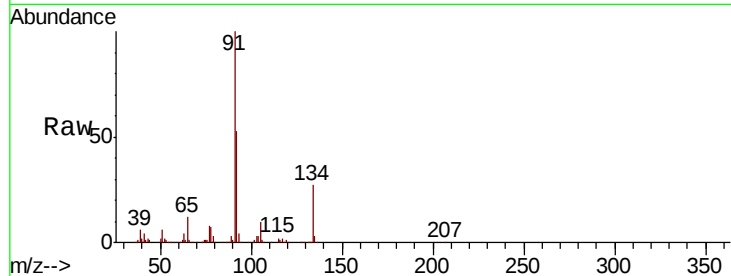




#89  
n-Butylbenzene  
Concen: 20.391 ug/l  
RT: 13.85 min Scan# 2028  
Delta R.T. -0.01 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

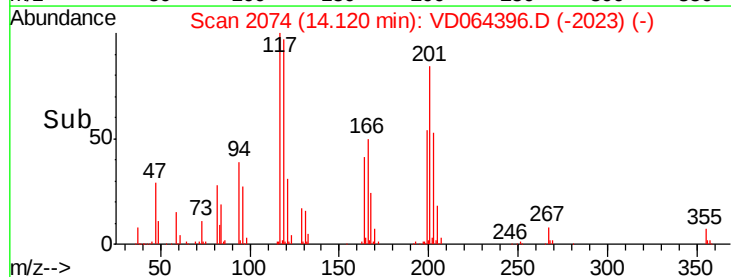
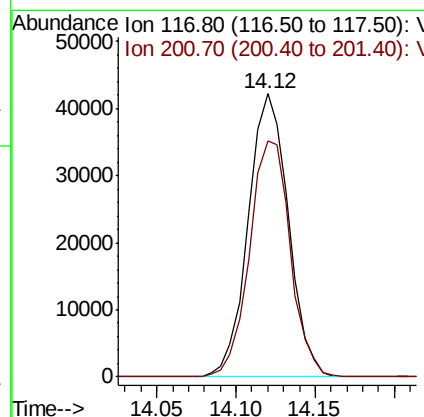
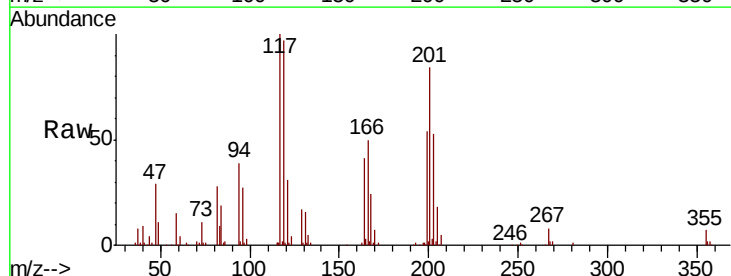
Instrument :  
MSVOA\_D  
ClientSampleId :

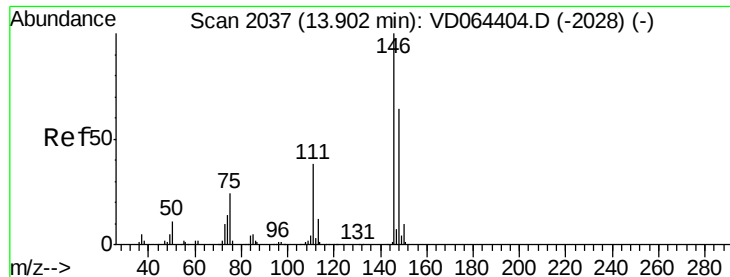
Tot Ion: 91 Resp: 356170  
Ion Ratio Lower Upper  
91 100  
92 54.1 26.5 79.4  
134 27.8 13.9 41.7



#90  
Hexachloroethane  
Concen: 20.682 ug/l  
RT: 14.12 min Scan# 2074  
Delta R.T. -0.00 min  
Lab File: VD064396.D  
Acq: 27 Nov 2019 15:07

Tgt Ion: 117 Resp: 74403  
Ion Ratio Lower Upper  
117 100  
201 84.7 44.3 132.8

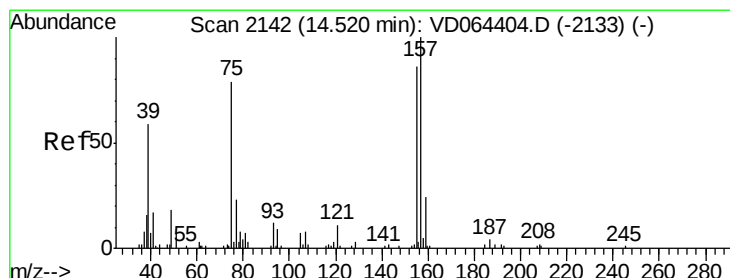
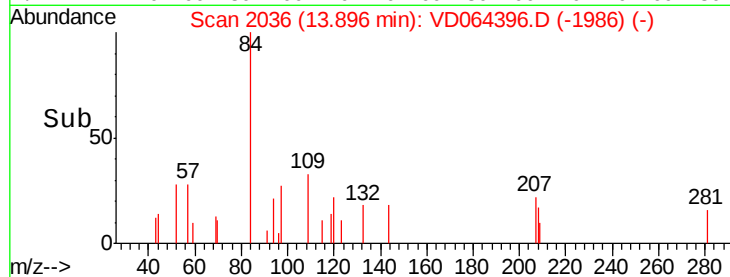
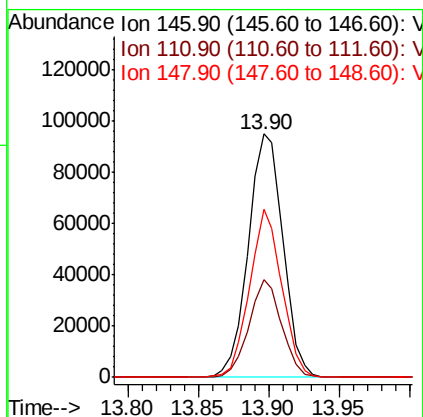
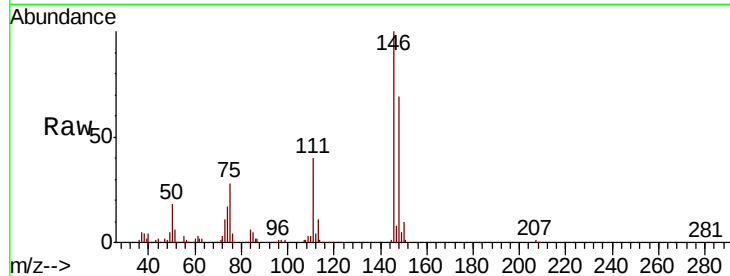




#91  
 1,2-Dichlorobenzene  
 Concen: 19.579 ug/l  
 RT: 13.90 min Scan# 2036  
 Delta R.T. -0.01 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

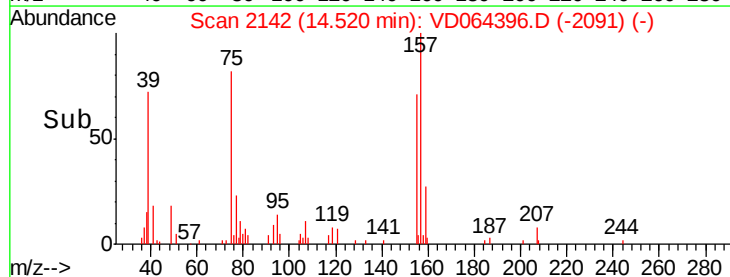
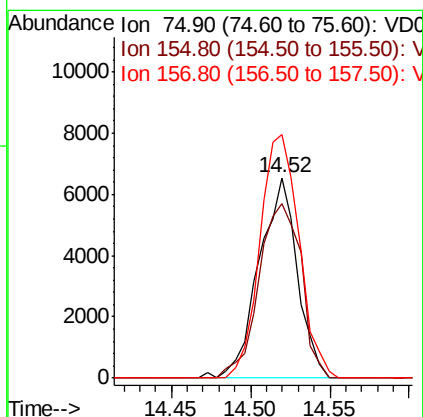
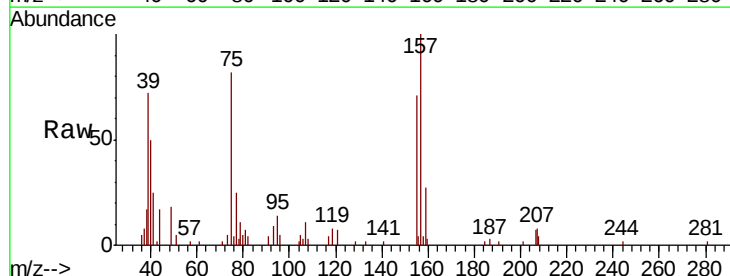
Instrument :  
 MSVOA\_D  
 ClientSampleId :

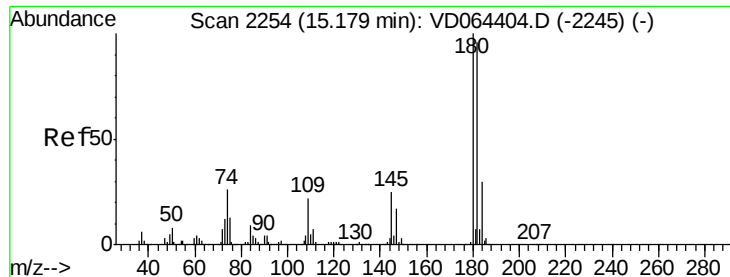
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.8  | 19.1  | 57.3  |
| 148     | 64.0  | 32.0  | 96.0  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 18.534 ug/l  
 RT: 14.52 min Scan# 2142  
 Delta R.T. 0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 95.7  | 51.9  | 155.7 |
| 157     | 124.3 | 63.2  | 189.8 |

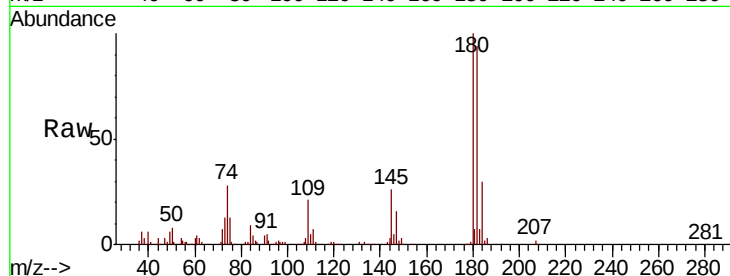




#93  
 1,2,4-Trichlorobenzene  
 Concen: 19.264 ug/l  
 RT: 15.17 min Scan# 2253  
 Delta R.T. -0.01 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 47.4  | 142.3 |
| 145     | 28.3  | 14.0  | 41.9  |

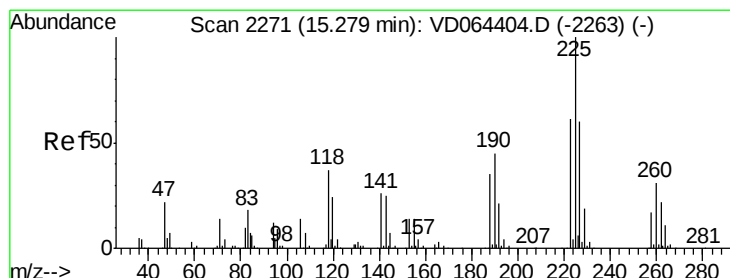
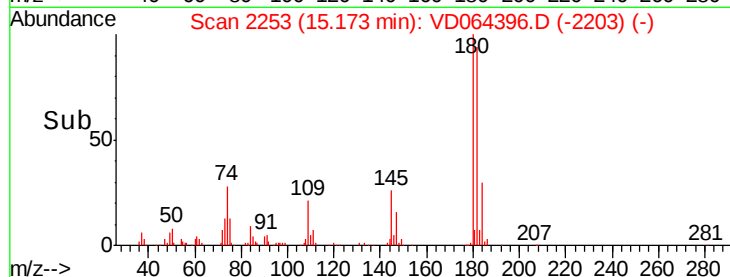
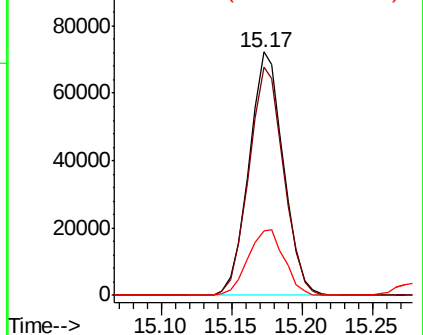


Abundance

Ion 179.80 (179.50 to 180.50): V

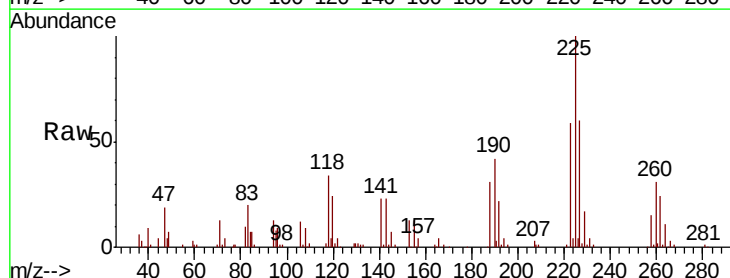
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94  
 Hexachlorobutadiene  
 Concen: 20.706 ug/l  
 RT: 15.28 min Scan# 2271  
 Delta R.T. -0.00 min  
 Lab File: VD064396.D  
 Acq: 27 Nov 2019 15:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 61.0  | 31.1  | 93.3  |
| 227     | 61.8  | 31.8  | 95.4  |

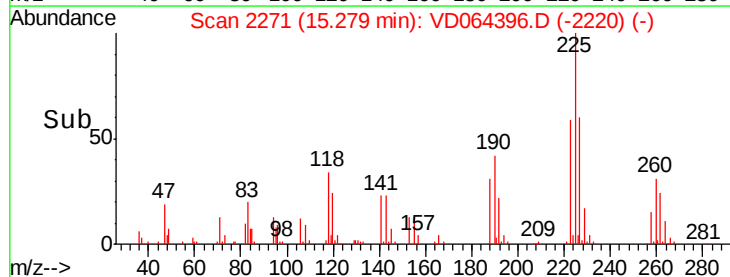
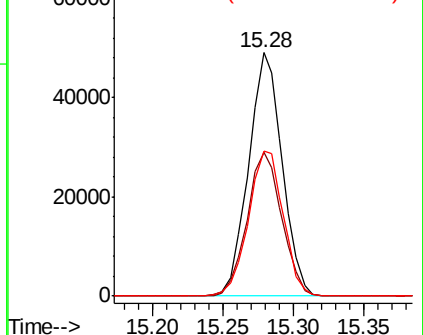


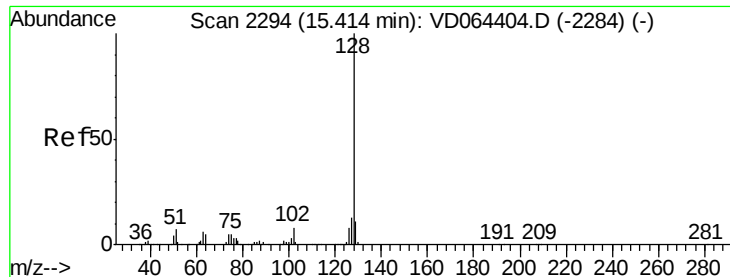
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 19.242 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampled :

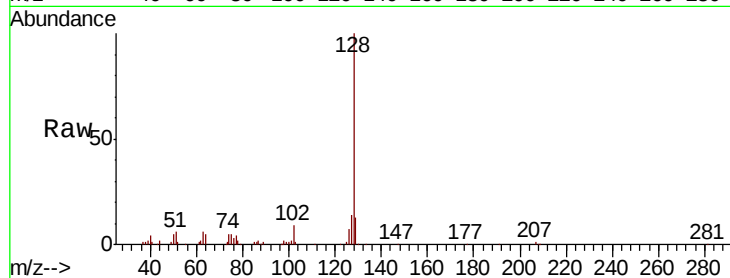
Tot Ion:128 Resp: 205824

Ion Ratio Lower Upper

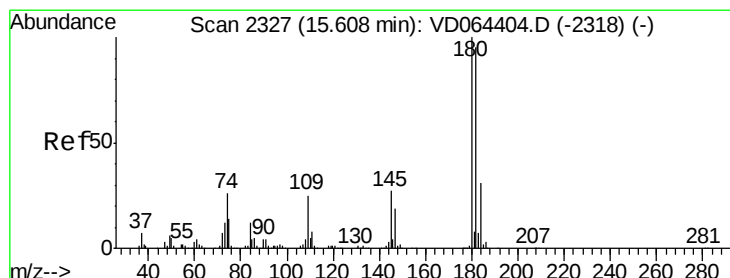
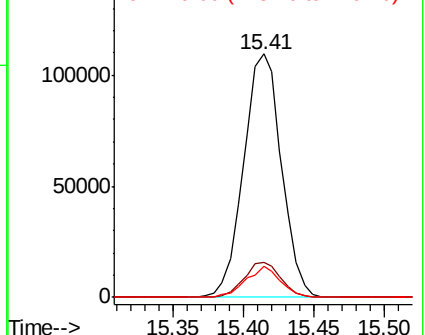
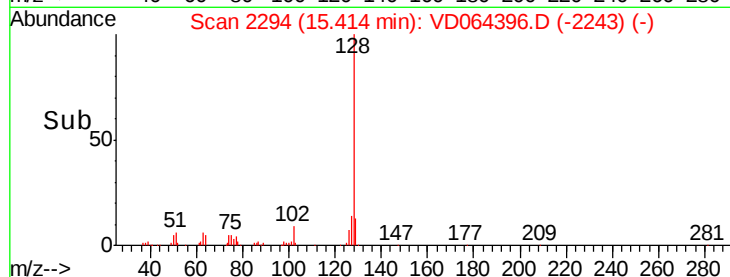
128 100

127 14.0 10.5 15.7

129 11.6 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V  
150000  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.342 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. -0.00 min

Lab File: VD064396.D

Acq: 27 Nov 2019 15:07

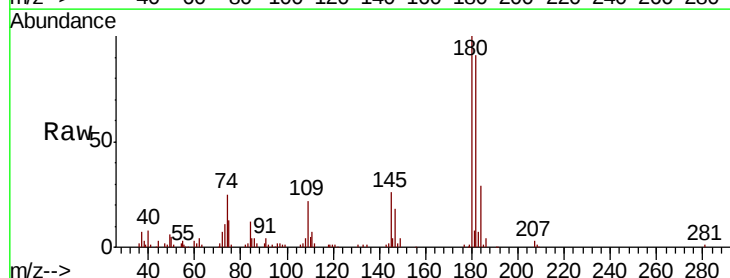
Tgt Ion:180 Resp: 105821

Ion Ratio Lower Upper

180 100

182 94.7 47.6 142.9

145 27.7 14.6 43.8



Abundance Ion 179.80 (179.50 to 180.50): V  
80000  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.90 (144.60 to 145.60): V

