

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012420\  
 Data File : VY001396.D  
 Acq On : 24 Jan 2020 20:22  
 Operator : SY/MD  
 Sample : L1017-07  
 Misc : 5.05G/5ML/MSVOA Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jan 25 03:53:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 4092     | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 8492     | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 8681     | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 3524     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 3555     | 79.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 159.68% |          |
| 35) Dibromofluoromethane    | 7.75  | 113  | 2391     | 47.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.94%  |          |
| 50) Toluene-d8              | 10.19 | 98   | 10233    | 52.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.70% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 4059     | 52.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.28% |          |

| Target Compounds              | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|-------------------------------|-------|------|----------|----------|--------|--------|
| 3) Chloromethane              | 2.12  | 50   | 120      | 2.460    | ug/l # | 43     |
| 5) Bromomethane               | 2.69  | 94   | 101      | 2.949    | ug/l # | 73     |
| 6) Chloroethane               | 2.79  | 64   | 82       | 2.523    | ug/l # | 41     |
| 10) Methyl Iodide             | 4.13  | 142  | 194      | 3.550    | ug/l # | 57     |
| 14) Allyl chloride            | 4.53  | 41   | 78       | 1.007    | ug/l # | 25     |
| 16) Acetone                   | 3.97  | 43   | 24593    | 2154.398 | ug/l   | 98     |
| 18) Methyl Acetate            | 4.54  | 43   | 56       | 1.491    | ug/l # | 51     |
| 20) Methylene Chloride        | 4.77  | 84   | 334      | 2.006    | ug/l # | 73     |
| 25) 2-Butanone                | 7.02  | 43   | 26       | 1.342    | ug/l # | 49     |
| 29) Tetrahydrofuran           | 7.54  | 42   | 47       | 3.728    | ug/l # | 34     |
| 31) Cyclohexane               | 7.79  | 56   | 126      | 1.463    | ug/l # | 21     |
| 36) 1,1-Dichloropropene       | 7.82  | 75   | 297      | 3.702    | ug/l # | 41     |
| 37) Ethyl Acetate             | 7.13  | 43   | 104      | 2.122    | ug/l # | 68     |
| 38) Carbon Tetrachloride      | 7.81  | 117  | 394      | 5.510    | ug/l # | 12     |
| 39) Methylcyclohexane         | 9.19  | 83   | 665      | 6.470    | ug/l # | 51     |
| 41) Methacrylonitrile         | 7.36  | 41   | 50       | 1.977    | ug/l # | 100    |
| 43) Isopropyl Acetate         | 8.32  | 43   | 136      | 1.427    | ug/l # | 53     |
| 47) Bromodichloromethane      | 9.51  | 83   | 172      | 2.204    | ug/l # | 26     |
| 48) Methyl methacrylate       | 9.31  | 41   | 216      | 4.985    | ug/l # | 31     |
| 51) 4-Methyl-2-Pentanone      | 10.07 | 43   | 116      | 2.363    | ug/l # | 36     |
| 52) Toluene                   | 10.25 | 92   | 7236     | 47.452   | ug/l   | 100    |
| 55) 1,1,2-Trichloroethane     | 10.61 | 97   | 72       | 1.494    | ug/l # | 1      |
| 56) Ethyl methacrylate        | 10.50 | 69   | 112      | 1.538    | ug/l # | 80     |
| 57) 1,3-Dichloropropane       | 10.97 | 76   | 301      | 3.586    | ug/l   | 100    |
| 58) 2-Chloroethyl Vinyl ether | 9.67  | 63   | 59       | 2.341    | ug/l # | 47     |
| 59) 2-Hexanone                | 10.86 | 43   | 110      | 3.219    | ug/l   | 96     |
| 60) Dibromochloromethane      | 11.05 | 129  | 221      | 4.101    | ug/l   | 79     |
| 61) 1,2-Dibromoethane         | 11.16 | 107  | 251      | 5.510    | ug/l   | 93     |
| 65) Chlorobenzene             | 11.52 | 112  | 271      | 1.481    | ug/l # | 42     |
| 66) 1,1,1,2-Tetrachloroethane | 11.55 | 131  | 101      | 1.617    | ug/l # | 38     |
| 67) Ethyl Benzene             | 11.60 | 91   | 763      | 2.263    | ug/l # | 75     |
| 68) m/p-Xylenes               | 11.70 | 106  | 569      | 4.518    | ug/l # | 38     |
| 69) o-Xylene                  | 12.02 | 106  | 234      | 1.931    | ug/l   | 73     |
| 74) N-ethyl acetate           | 12.17 | 43   | 101      | 1.110    | ug/l # | 43     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012420\  
 Data File : VY001396.D  
 Acq On : 24 Jan 2020 20:22  
 Operator : SY/MD  
 Sample : L1017-07  
 Misc : 5.05G/5ML/MSVOA Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jan 25 03:53:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

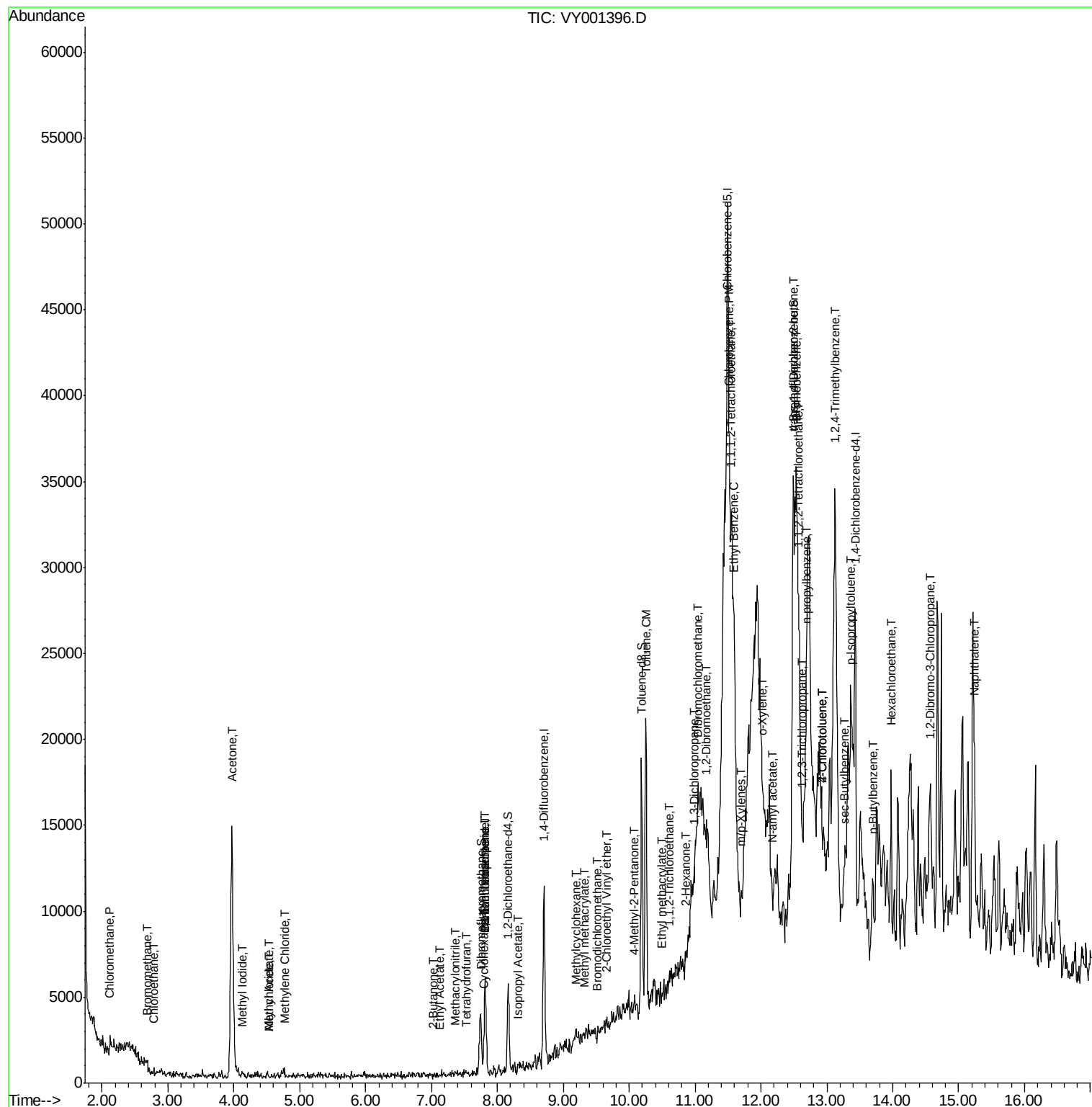
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 75) 1,1,2,2-Tetrachloroethane  | 12.57 | 83   | 338      | 5.676   | ug/l # | 86       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 105      | 2.473   | ug/l # | 100      |
| 77) Bromobenzene               | 12.54 | 156  | 35571    | 577.539 | ug/l # | 1        |
| 78) n-propylbenzene            | 12.68 | 91   | 1211     | 3.618   | ug/l   | 93       |
| 79) 2-Chlorotoluene            | 12.93 | 91   | 263      | 1.375   | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 2418     | 107.756 | ug/l # | 25       |
| 82) 4-Chlorotoluene            | 12.93 | 91   | 263      | 1.288   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 1517     | 6.510   | ug/l   | 75       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 965      | 3.471   | ug/l   | 91       |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 398      | 1.625   | ug/l # | 60       |
| 89) n-Butylbenzene             | 13.70 | 91   | 1691     | 6.859   | ug/l # | 83       |
| 90) Hexachloroethane           | 13.97 | 117  | 512      | 11.026  | ug/l # | 15       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.57 | 75   | 464      | 45.152  | ug/l # | 10       |
| 95) Naphthalene                | 15.24 | 128  | 7121     | 42.416  | ug/l # | 85       |
| -----                          |       |      |          |         |        |          |

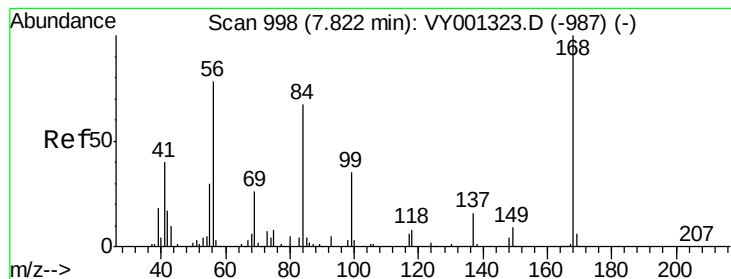
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY012420\  
 Data File : VY001396.D  
 Acq On : 24 Jan 2020 20:22  
 Operator : SY/MD  
 Sample : L1017-07  
 Misc : 5.05G/5ML/MSVOA Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jan 25 03:53:39 2020  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.01 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

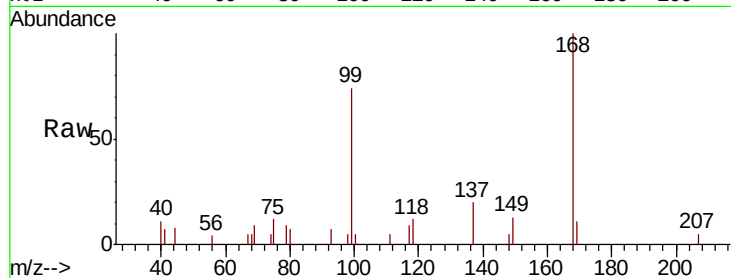
ClientSampleId :

Tot Ion:168 Resp: 4092

Ion Ratio Lower Upper

168 100

99 74.3 44.3 66.5#



Abundance Ion 167.90 (167.60 to 168.60): VY001323.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001323.D (-987) (-)

7.82

1500

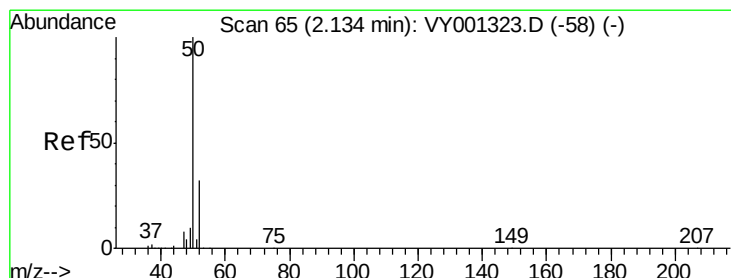
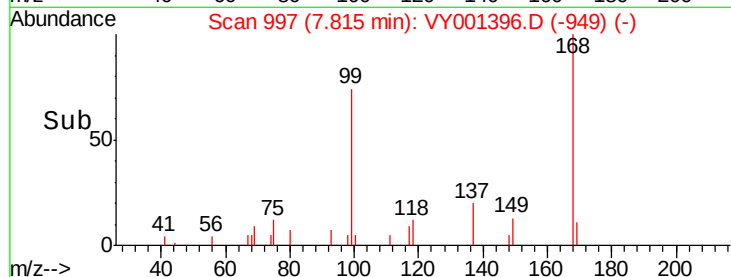
1000

500

0

7.75 7.80 7.85 7.90

Time-->



#3

Chloromethane

Concen: 2.460 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.02 min

Lab File: VY001396.D

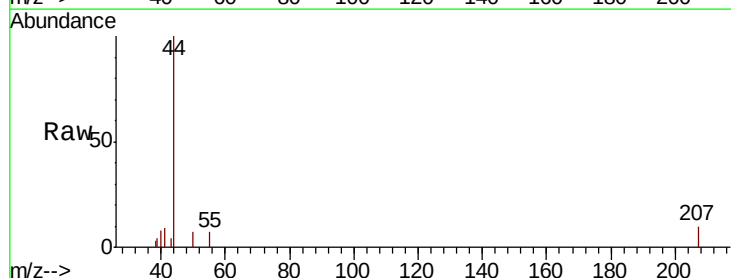
Acq: 24 Jan 2020 20:22

Tgt Ion: 50 Resp: 120

Ion Ratio Lower Upper

50 100

52 0.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VY001323.D (-58) (-)

Ion 51.90 (51.60 to 52.60): VY001323.D (-58) (-)

2.12

120

100

80

60

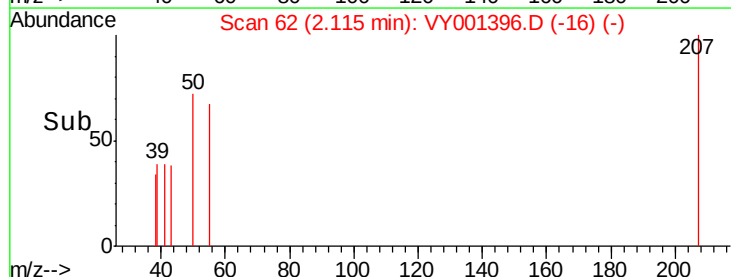
40

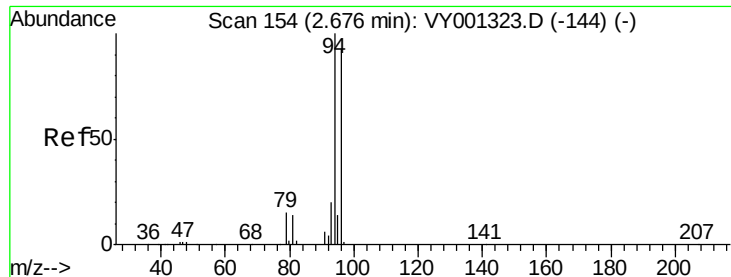
20

0

2.08 2.10 2.12 2.14 2.16

Time-->





#5

Bromomethane

Concen: 2.949 ug/l

RT: 2.69 min Scan# 156

Delta R.T. 0.01 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

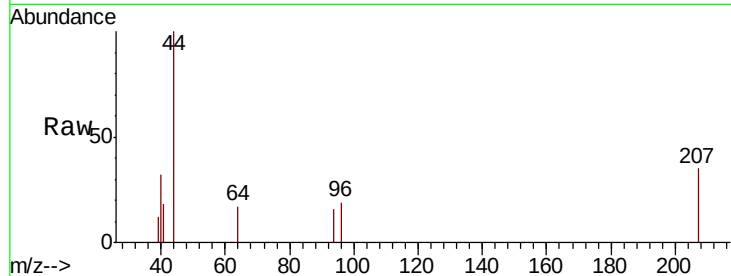
ClientSampleId :

Tot Ion: 94 Resp: 101

Ion Ratio Lower Upper

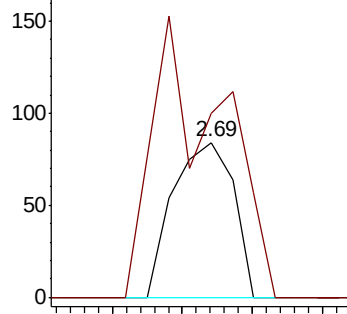
94 100

96 119.0 74.6 111.8#

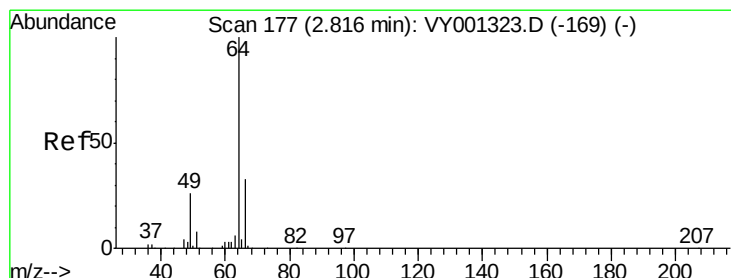
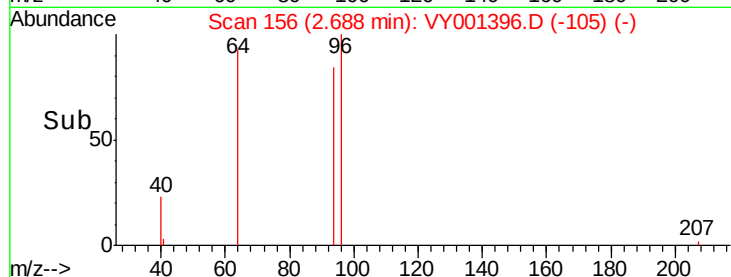


Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



Time-->



#6

Chloroethane

Concen: 2.523 ug/l

RT: 2.79 min Scan# 172

Delta R.T. -0.03 min

Lab File: VY001396.D

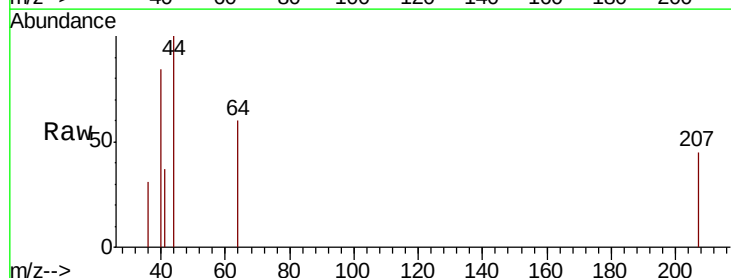
Acq: 24 Jan 2020 20:22

Tgt Ion: 64 Resp: 82

Ion Ratio Lower Upper

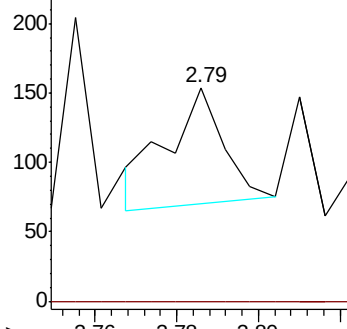
64 100

66 0.0 26.8 40.2#

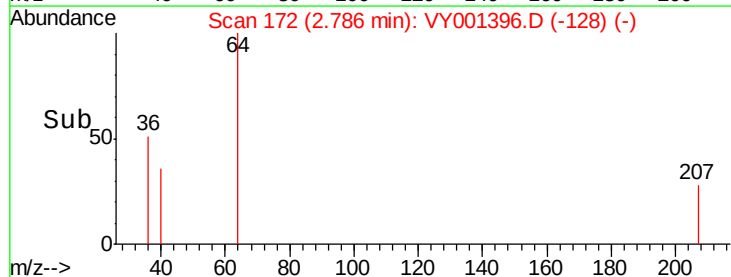


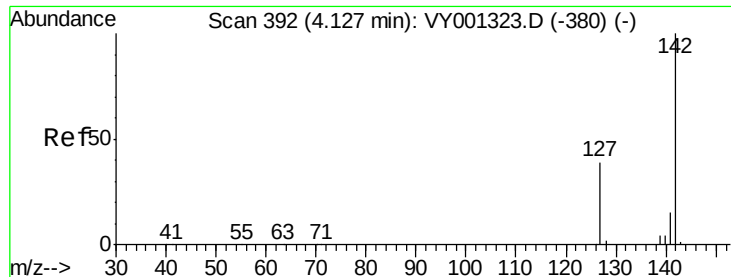
Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0



Time-->

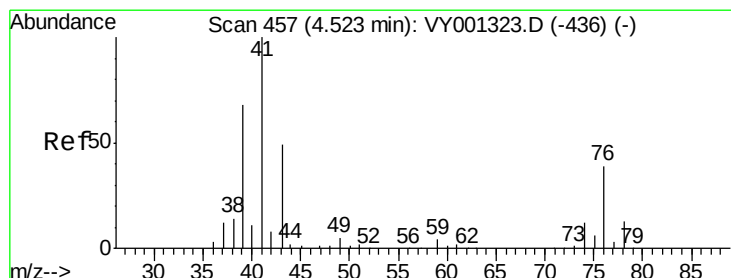
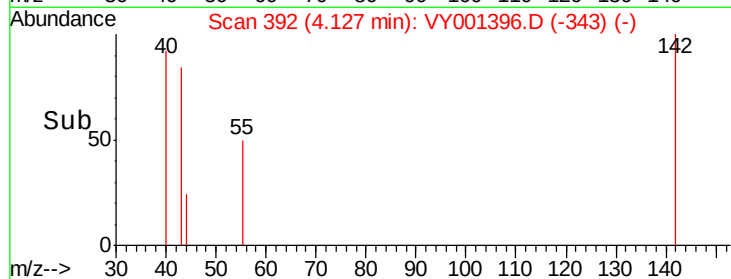
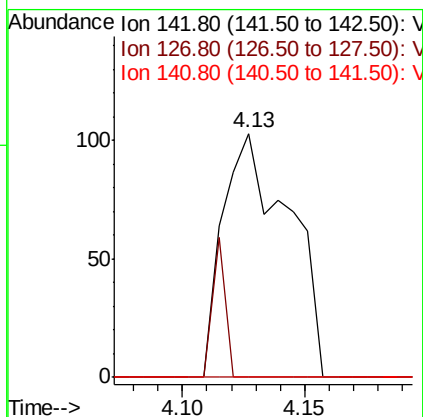
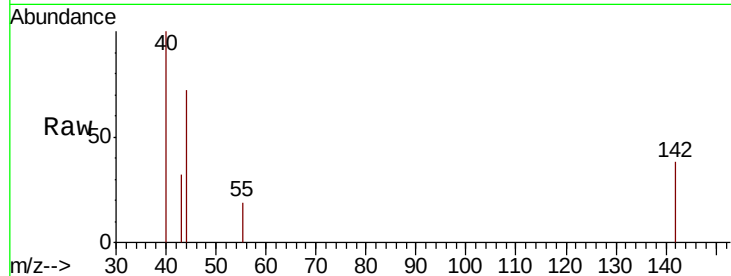




#10  
Methvl Iodide  
Concen: 3.550 ug/l  
RT: 4.13 min Scan# 392  
Delta R.T. -0.00 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

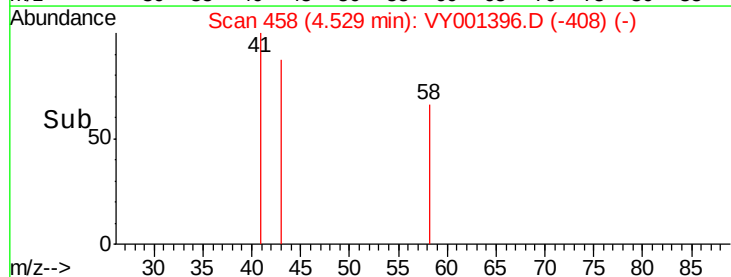
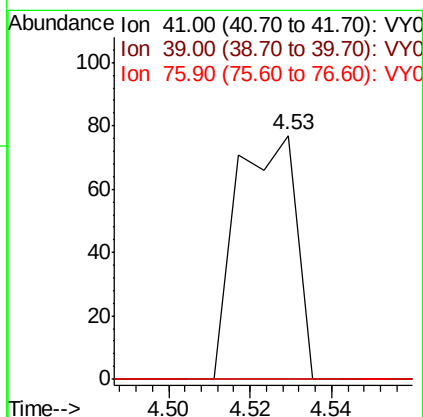
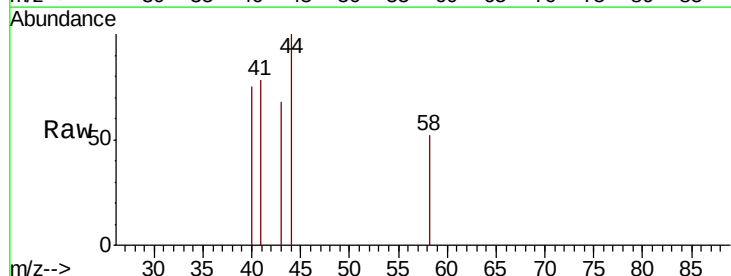
Instrument :  
MSVOA\_Y  
ClientSampled :

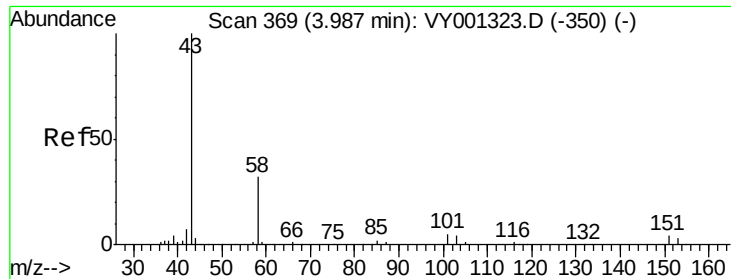
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 127     | 11.3  | 31.6  | 47.4# |
| 141     | 0.0   | 11.2  | 16.8# |



#14  
Allyl chloride  
Concen: 1.007 ug/l  
RT: 4.53 min Scan# 458  
Delta R.T. 0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 0.0   | 52.2  | 78.4# |
| 76      | 0.0   | 29.1  | 43.7# |





#16

Acetone

Concen: 2154.398 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.02 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

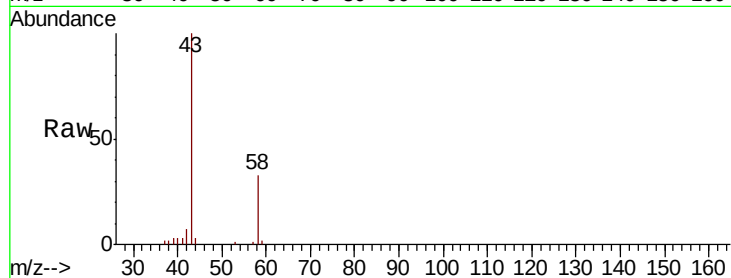
ClientSampleId :

Tot Ion: 43 Resp: 24593

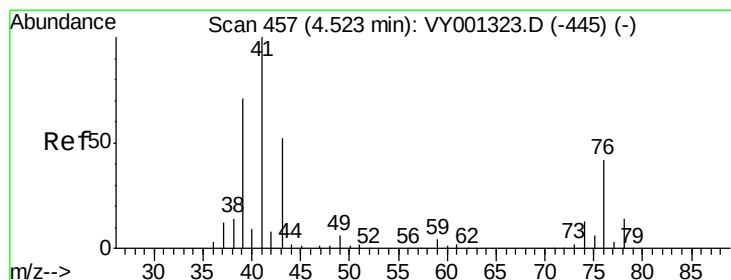
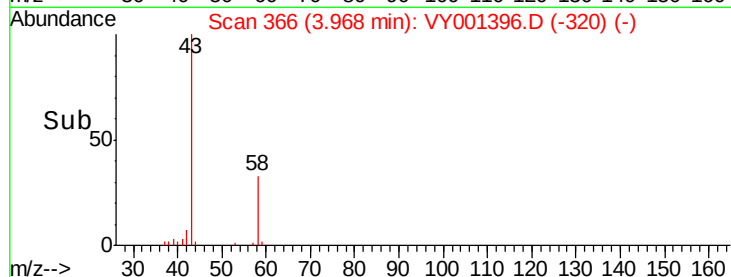
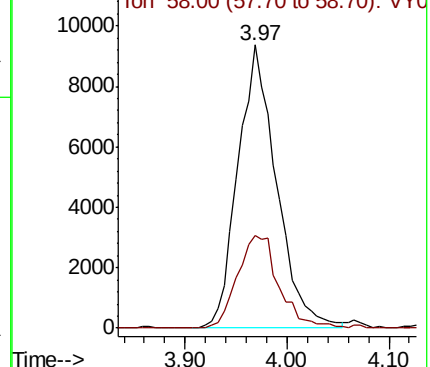
Ion Ratio Lower Upper

43 100

58 32.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VY0



#18

Methyl Acetate

Concen: 1.491 ug/l

RT: 4.54 min Scan# 459

Delta R.T. 0.01 min

Lab File: VY001396.D

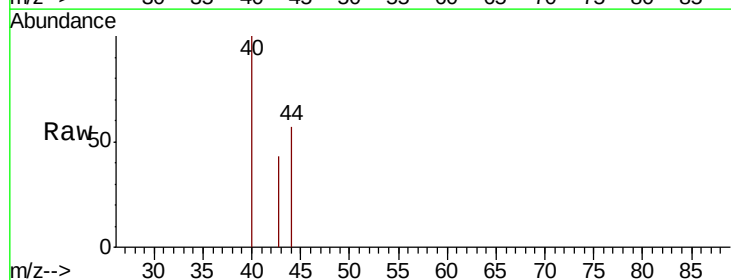
Acq: 24 Jan 2020 20:22

Tgt Ion: 43 Resp: 56

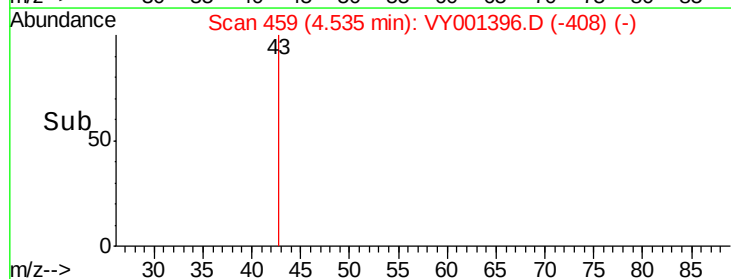
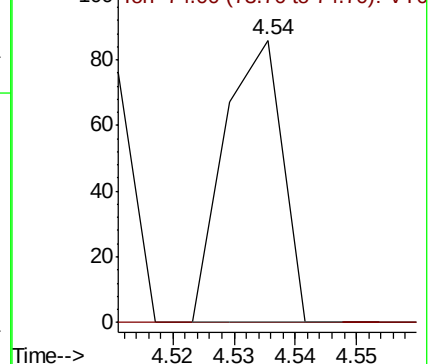
Ion Ratio Lower Upper

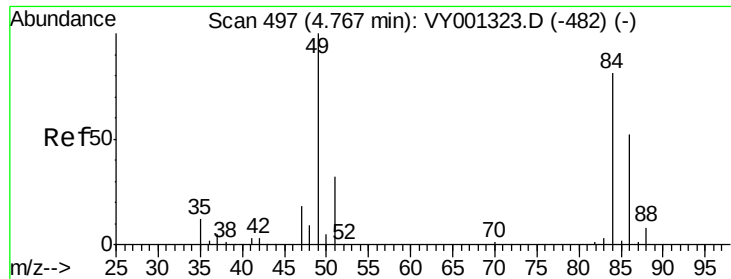
43 100

74 0.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0

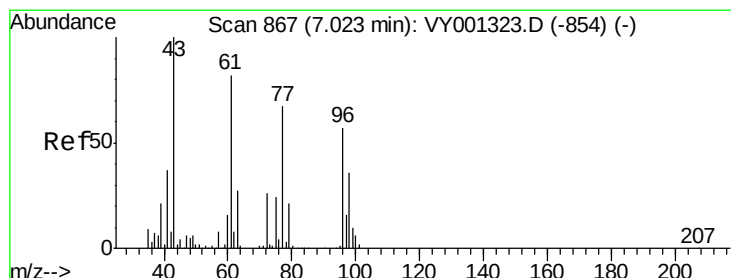
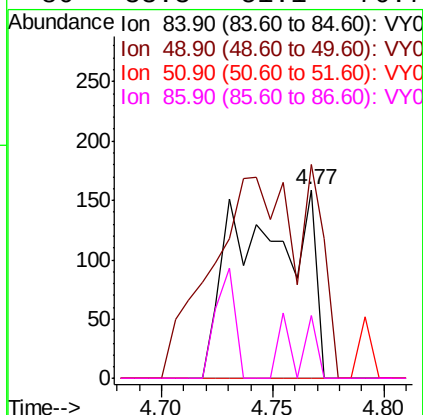
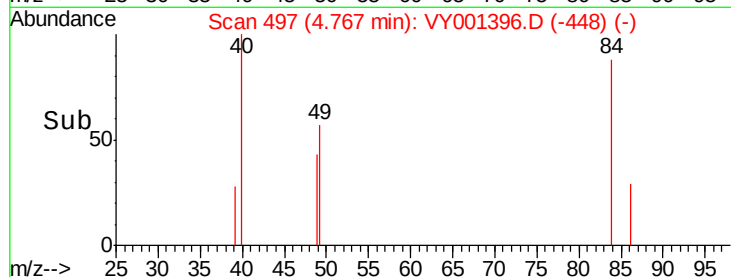
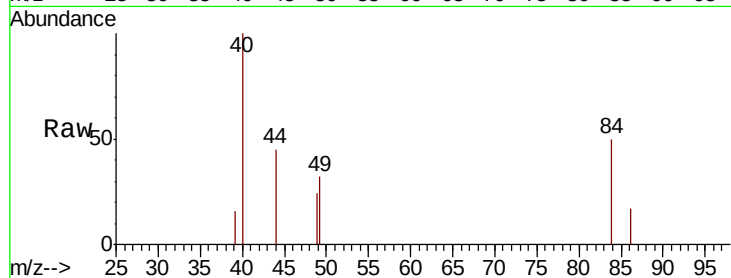




#20  
Methvlene Chloride  
Concen: 2.006 ug/l  
RT: 4.77 min Scan# 497  
Delta R.T. -0.00 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

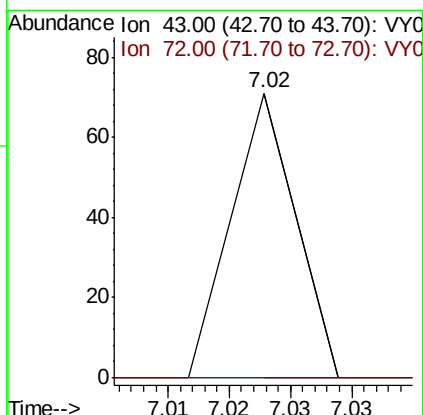
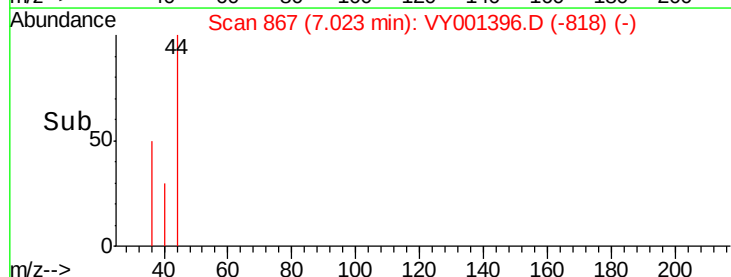
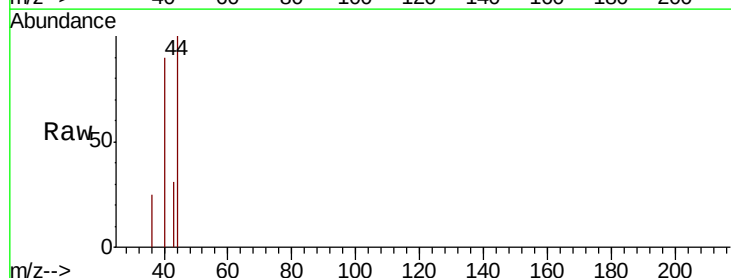
Instrument :  
MSVOA\_Y  
ClientSampleId :

| Tot Ion: | 84    | Resp: | 334   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 113.2 | 98.3  | 147.5 |
| 51       | 0.0   | 31.6  | 47.4# |
| 86       | 33.3  | 51.1  | 76.7# |

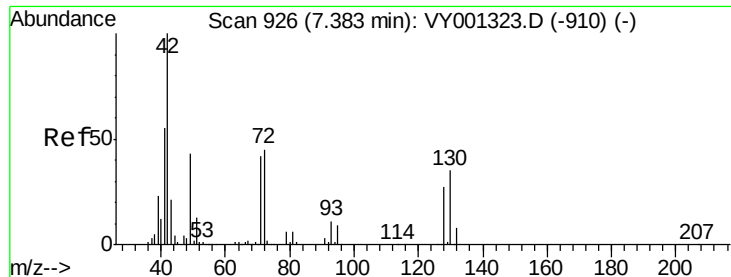


#25  
2-Butanone  
Concen: 1.342 ug/l  
RT: 7.02 min Scan# 867  
Delta R.T. -0.00 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

| Tgt Ion: | 43    | Resp: | 26    |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 20.6  | 31.0# |







#29

Tetrahydrofuran

Concen: 3.728 ug/l

RT: 7.54 min Scan# 952

Delta R.T. 0.16 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

ClientSampled :

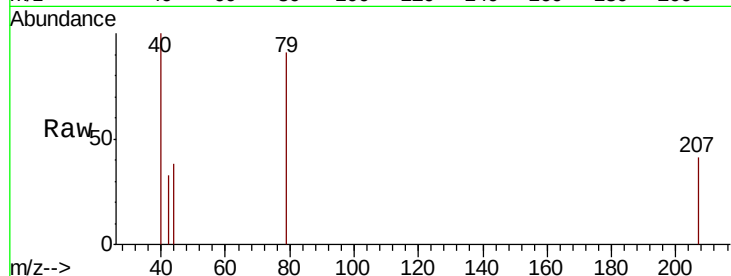
Tot Ion: 42 Resp: 47

Ion Ratio Lower Upper

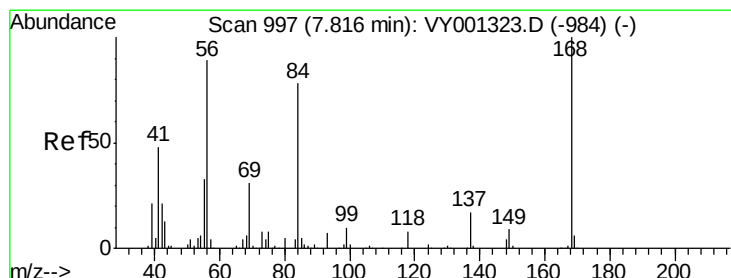
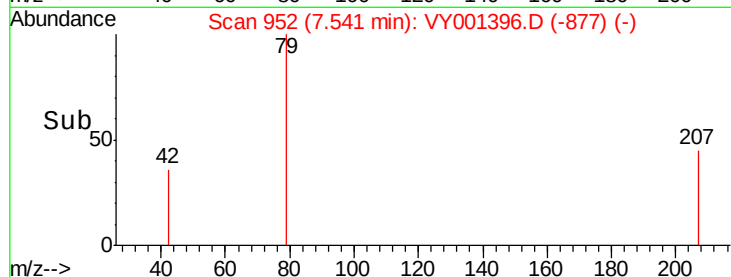
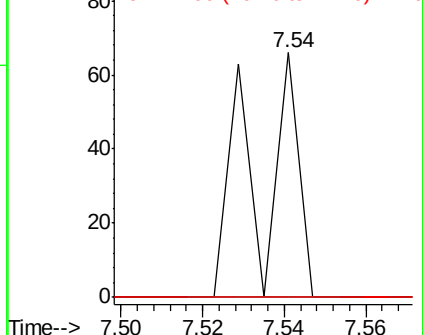
42 100

72 0.0 34.6 51.8#

71 0.0 32.6 48.8#



Abundance Ion 42.00 (41.70 to 42.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0  
Ion 71.00 (70.70 to 71.70): VY0



#31

Cyclohexane

Concen: 1.463 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.02 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

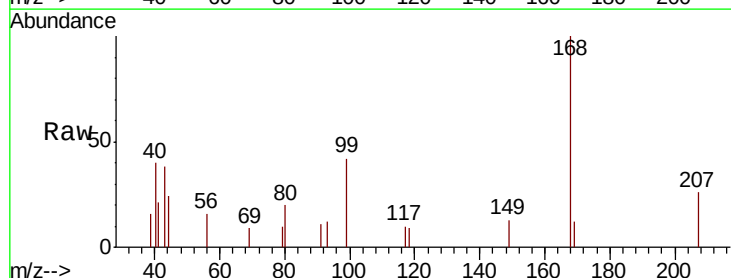
Tgt Ion: 56 Resp: 126

Ion Ratio Lower Upper

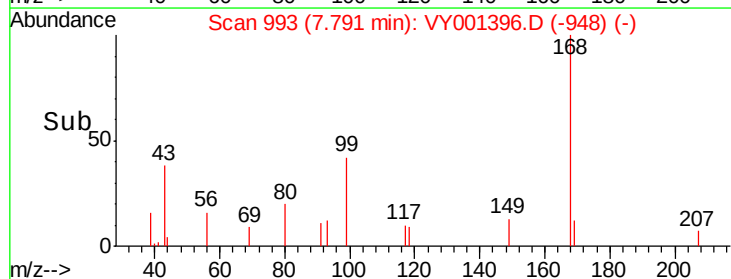
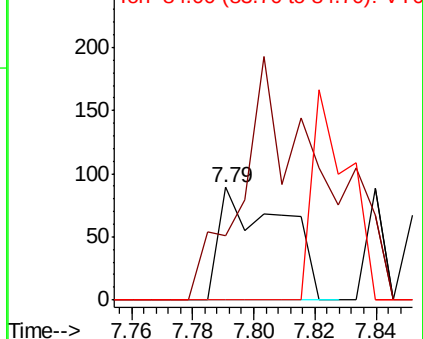
56 100

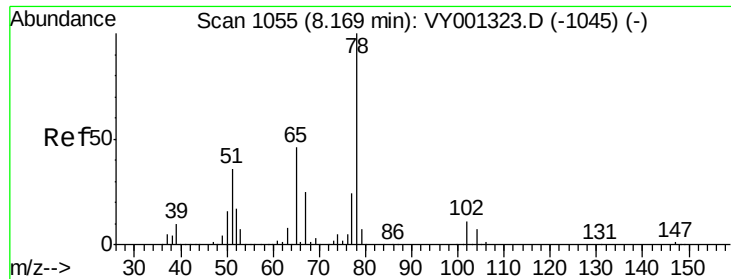
69 57.3 27.6 41.4#

84 0.0 69.7 104.5#



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0

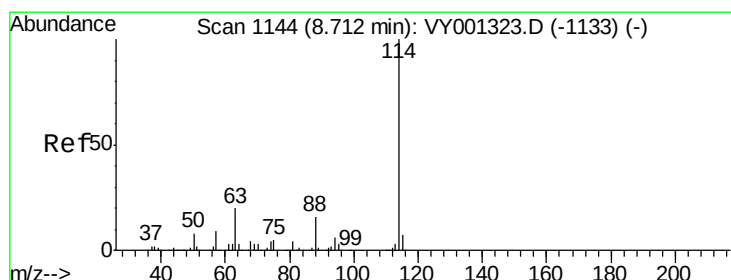
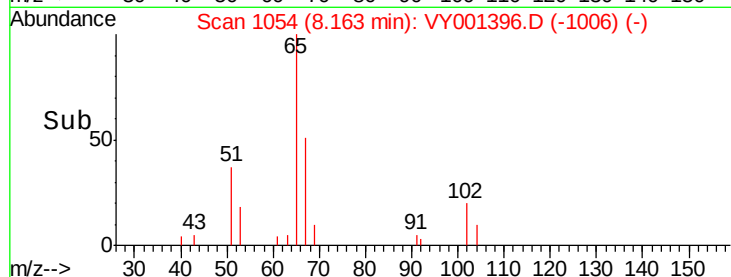
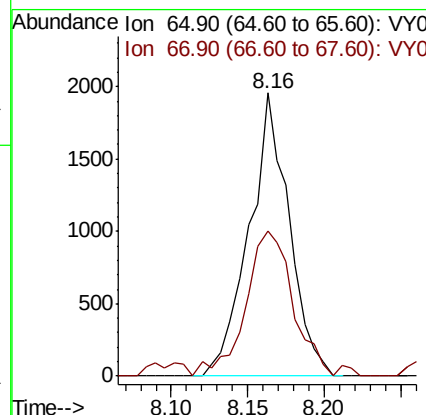
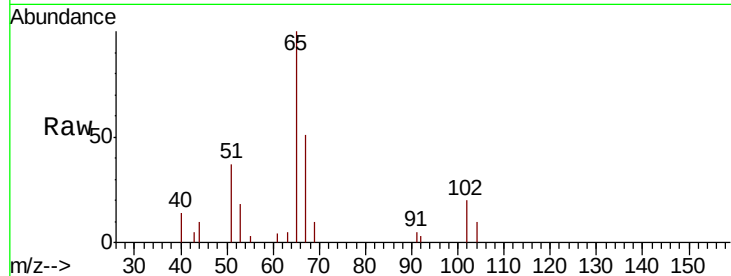




#33  
 1,2-Dichloroethane-d4  
 Concen: 79.840 ug/l  
 RT: 8.16 min Scan# 1054  
 Delta R.T. -0.01 min  
 Lab File: VY001396.D  
 Acq: 24 Jan 2020 20:22

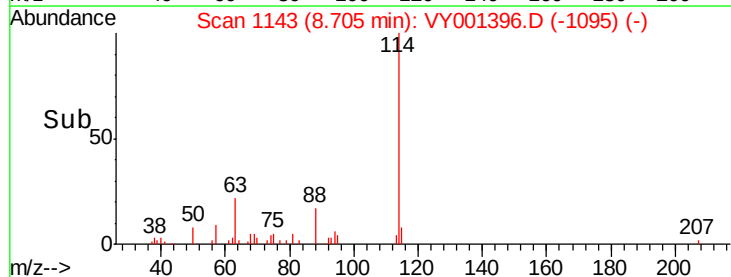
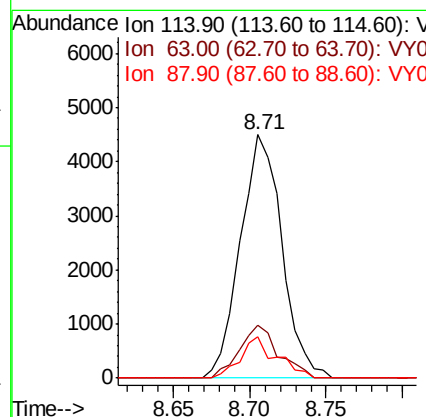
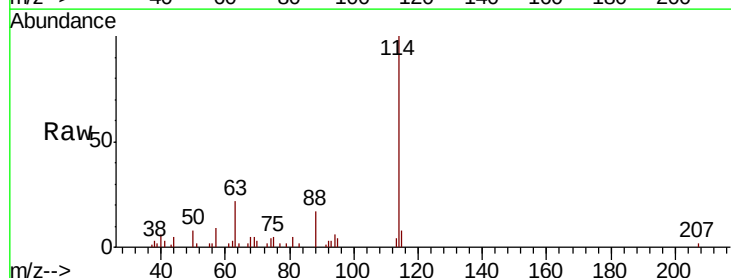
Instrument :  
 MSVOA\_Y  
 ClientSampled :

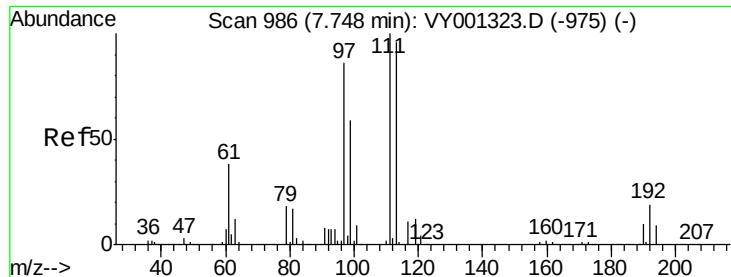
Tot Ion: 65 Resp: 3555  
 Ion Ratio Lower Upper  
 65 100  
 67 60.4 0.0 108.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. -0.01 min  
 Lab File: VY001396.D  
 Acq: 24 Jan 2020 20:22

Tgt Ion: 114 Resp: 8492  
 Ion Ratio Lower Upper  
 114 100  
 63 21.6 0.0 40.8  
 88 16.8 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.973 ug/l

RT: 7.75 min Scan# 986

Delta R.T. -0.00 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

ClientSampleId :

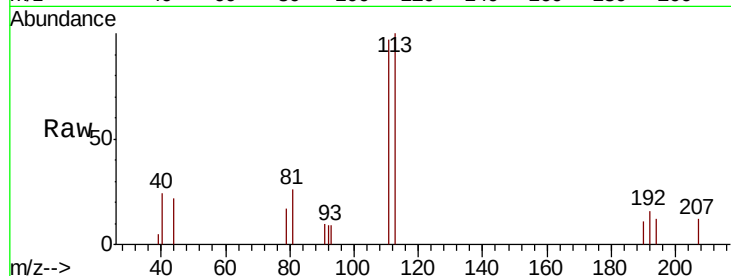
Tot Ion:113 Resp: 2391

Ion Ratio Lower Upper

113 100

111 105.9 82.8 124.2

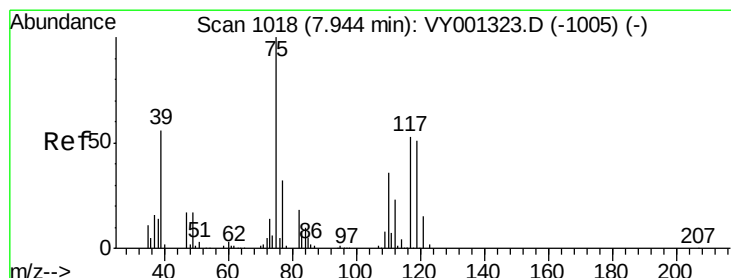
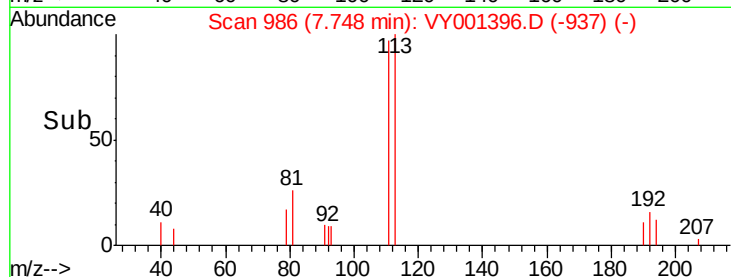
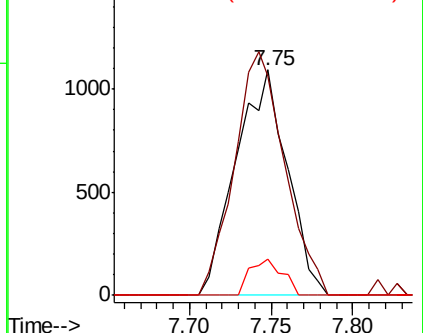
192 10.2 15.5 23.3#



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.702 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.13 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

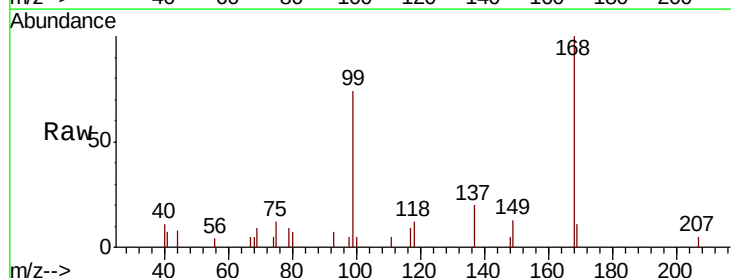
Tgt Ion: 75 Resp: 297

Ion Ratio Lower Upper

75 100

110 0.0 17.6 52.8#

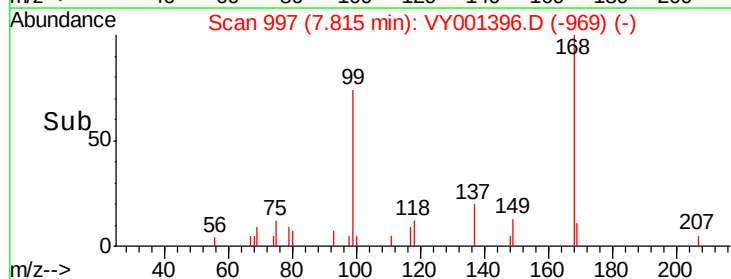
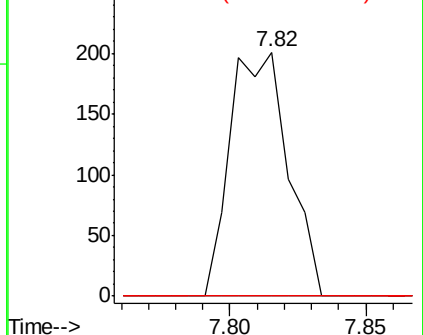
77 0.0 24.7 37.1#

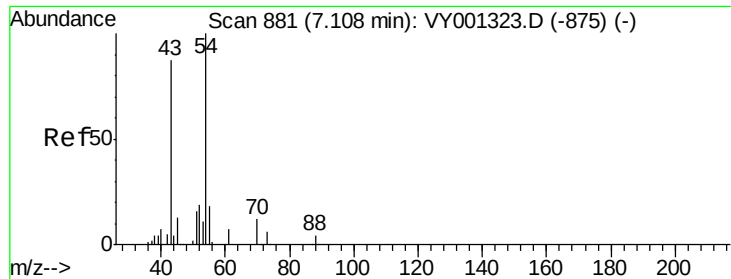


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

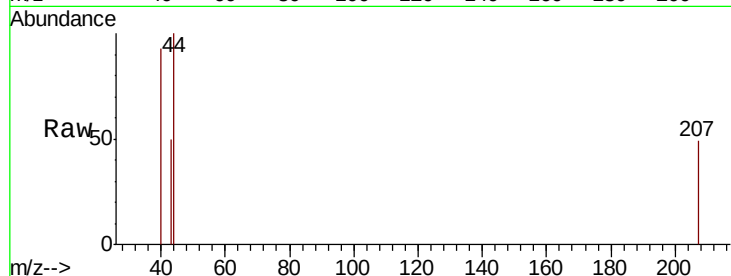




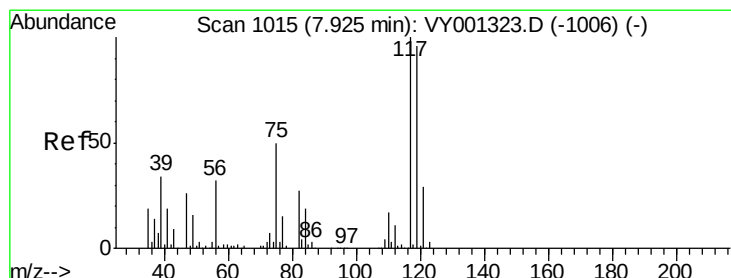
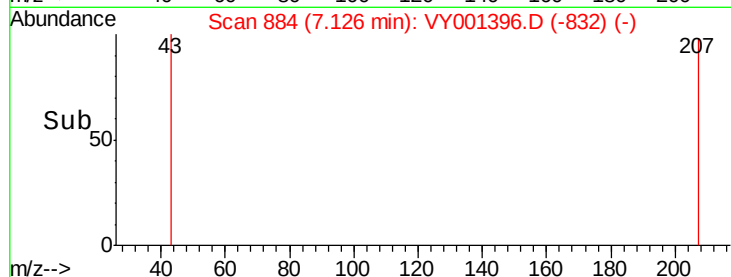
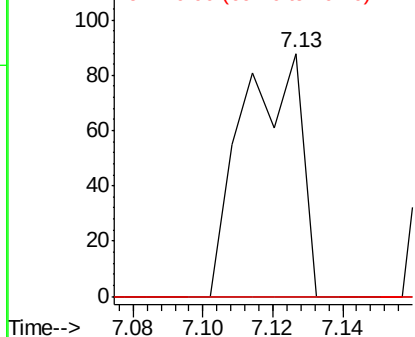
#37  
Ethyl Acetate  
Concen: 2.122 ug/l  
RT: 7.13 min Scan# 884  
Delta R.T. 0.02 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 43 Resp: 104  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.3 16.9#  
70 0.0 8.7 13.1#

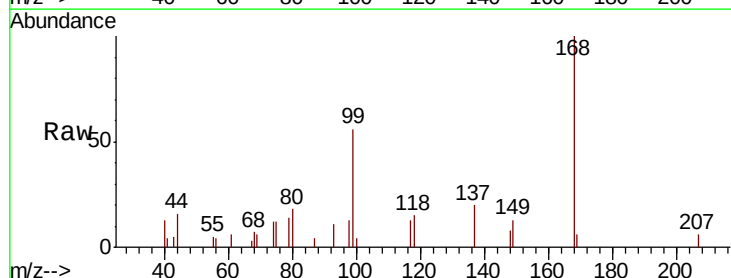


Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 60.90 (60.60 to 61.60): VY0  
Ion 70.00 (69.70 to 70.70): VY0

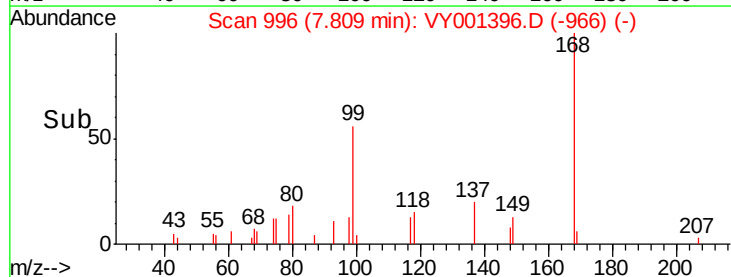
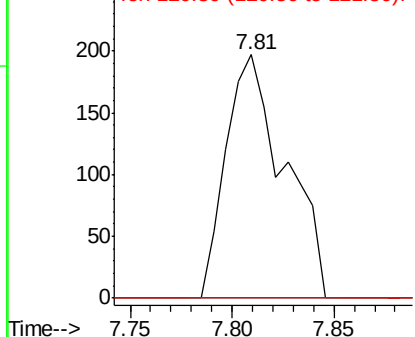


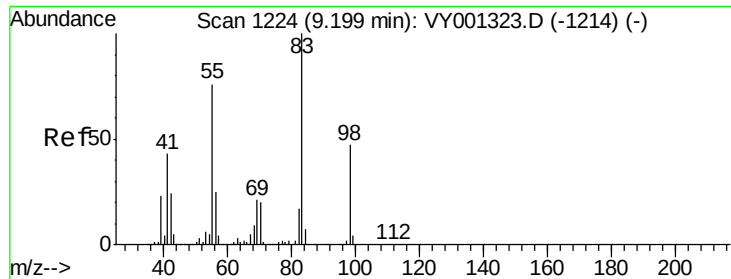
#38  
Carbon Tetrachloride  
Concen: 5.510 ug/l  
RT: 7.81 min Scan# 996  
Delta R.T. -0.12 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Tgt Ion: 117 Resp: 394  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.3 114.5#  
121 0.0 23.5 35.3#



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

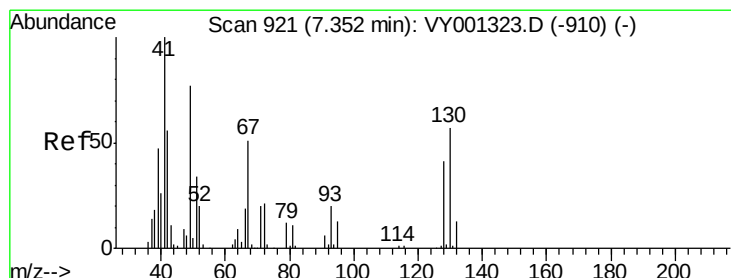
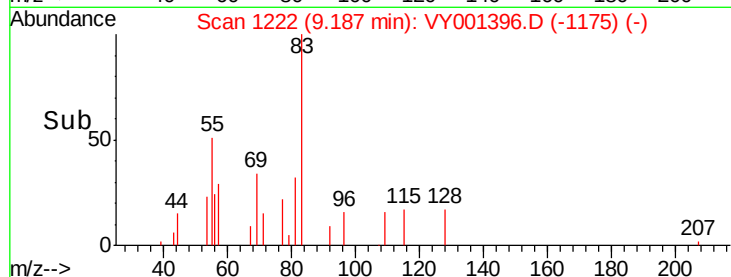
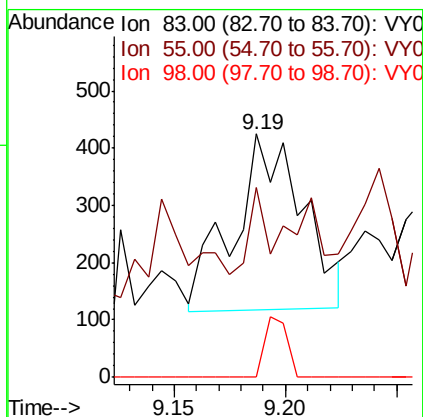
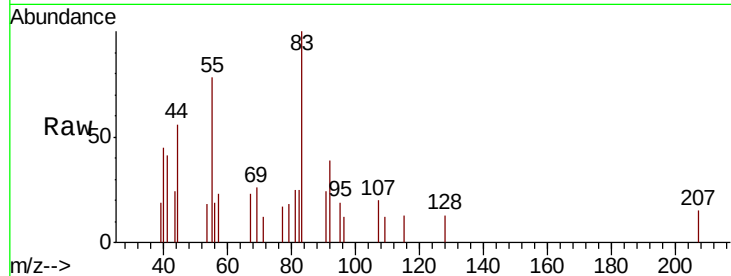




#39  
Methylcyclohexane  
Concen: 6.470 ug/l  
RT: 9.19 min Scan# 1222  
Delta R.T. -0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

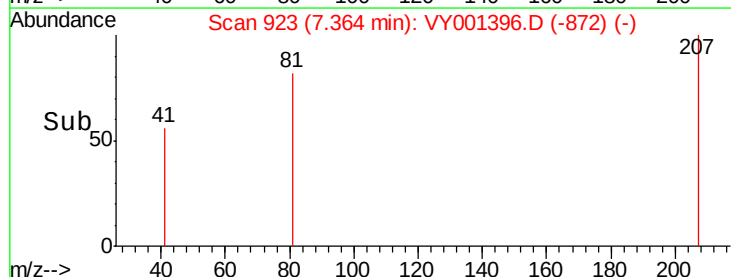
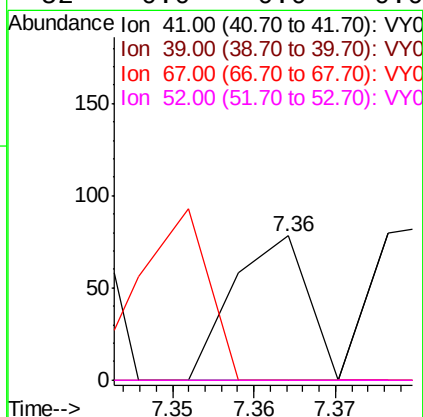
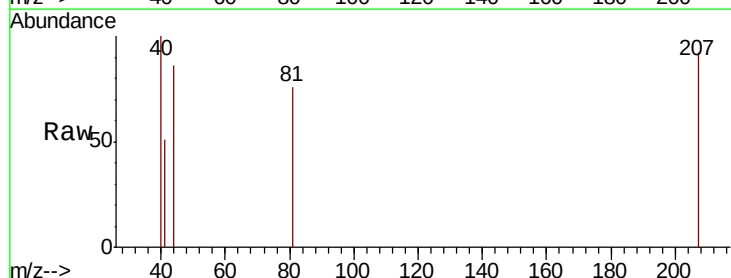
Instrument :  
MSVOA\_Y  
ClientSampled :

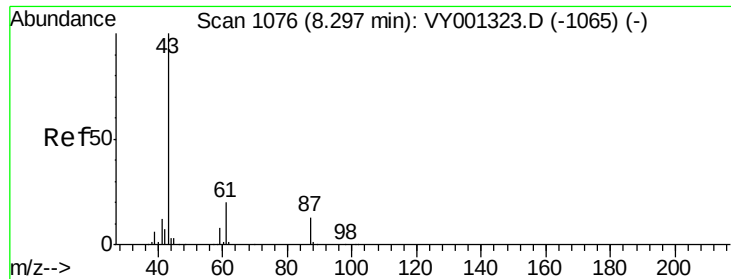
Tot Ion: 83 Resp: 665  
Ion Ratio Lower Upper  
83 100  
55 45.6 60.7 91.1#  
98 0.0 37.8 56.8#



#41  
Methacrylonitrile  
Concen: 1.977 ug/l  
RT: 7.36 min Scan# 923  
Delta R.T. 0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Tgt Ion: 41 Resp: 50  
Ion Ratio Lower Upper  
41 100  
39 0.0 0.0 0.0  
67 110.0 0.0 0.0#  
52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 1.427 ug/l

RT: 8.32 min Scan# 1079

Delta R.T. 0.02 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

ClientSampled :

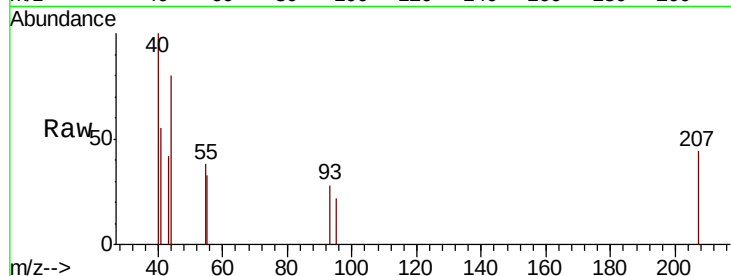
Tot Ion: 43 Resp: 136

Ion Ratio Lower Upper

43 100

61 0.0 22.7 34.1#

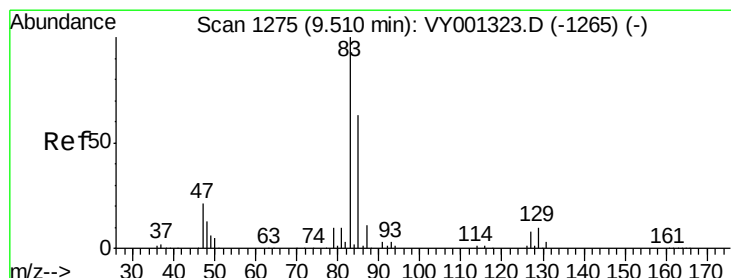
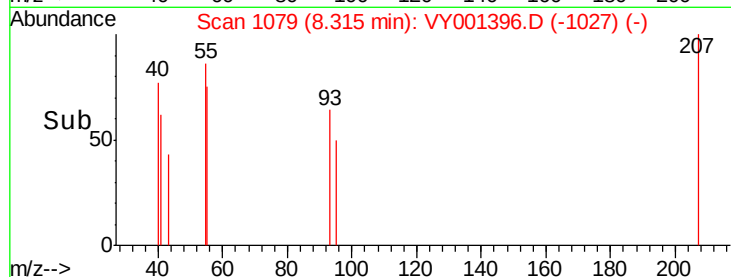
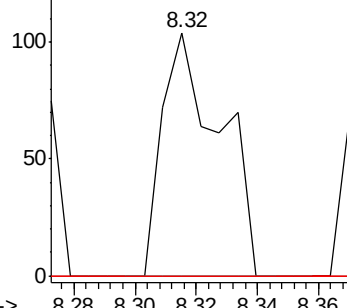
87 0.0 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

Ion 87.00 (86.70 to 87.70): VY0



#47

Bromodichloromethane

Concen: 2.204 ug/l

RT: 9.51 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

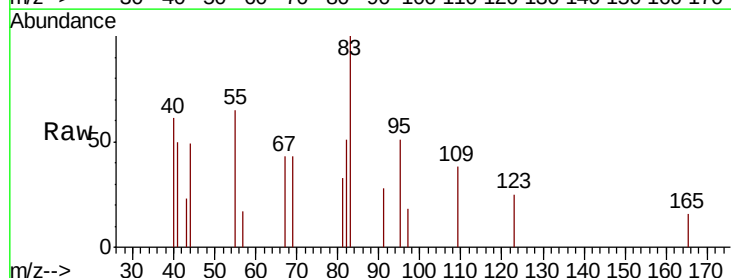
Tgt Ion: 83 Resp: 172

Ion Ratio Lower Upper

83 100

85 0.0 50.2 75.2#

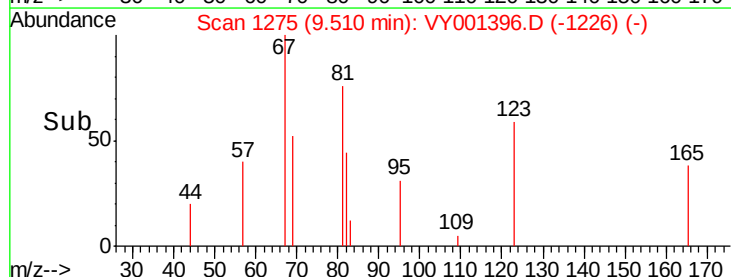
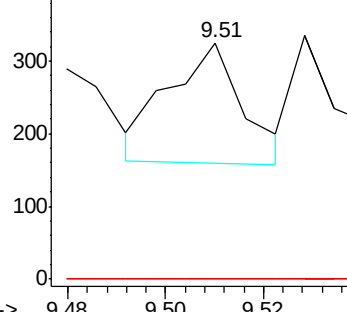
127 0.0 6.4 9.6#

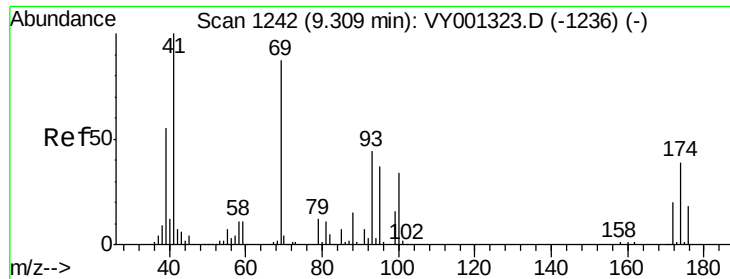


Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 126.80 (126.50 to 127.50): V

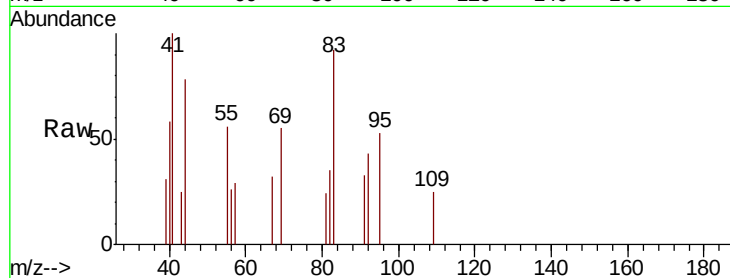




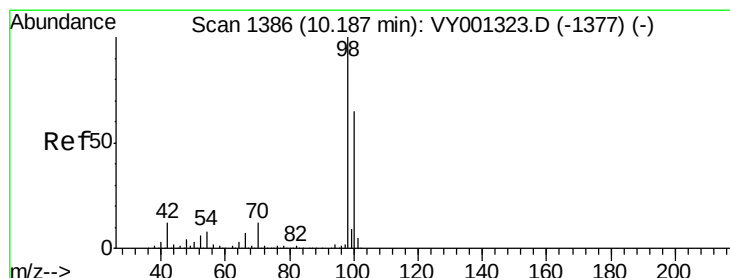
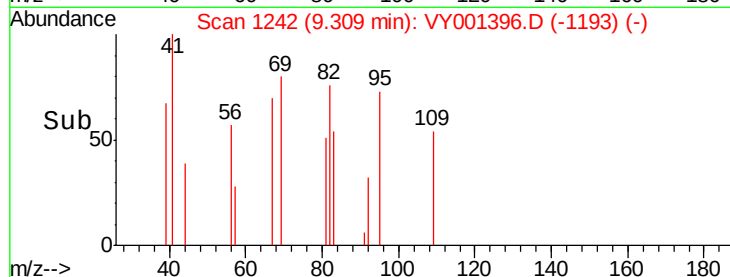
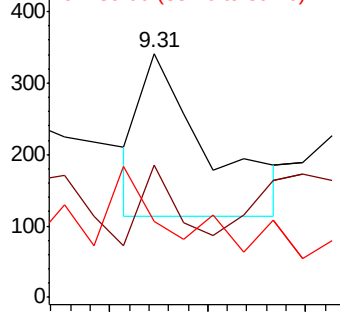
#48  
Methyl methacrylate  
Concen: 4.985 ug/l  
RT: 9.31 min Scan# 1242  
Delta R.T. -0.00 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 41 Resp: 216  
Ion Ratio Lower Upper  
41 100  
69 26.9 70.2 105.4#  
39 111.6 45.7 68.5#

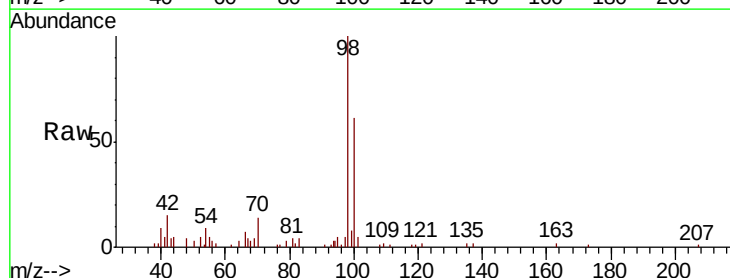


Abundance Ion 41.00 (40.70 to 41.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 39.00 (38.70 to 39.70): VY0

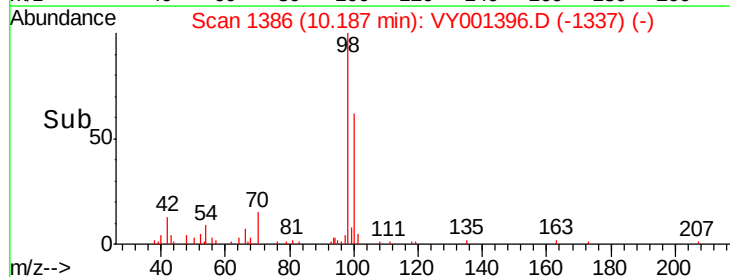
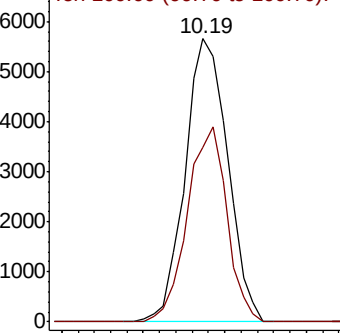


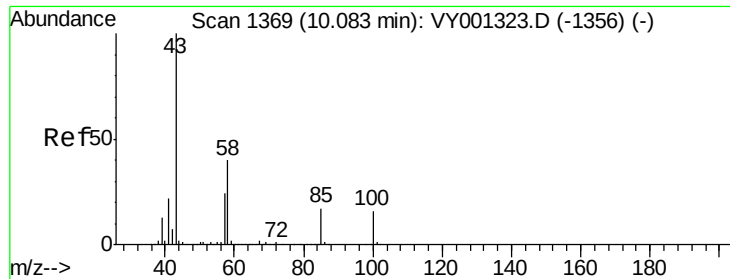
#50  
Toluene-d8  
Concen: 52.845 ug/l  
RT: 10.19 min Scan# 1386  
Delta R.T. -0.00 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Tgt Ion: 98 Resp: 10233  
Ion Ratio Lower Upper  
98 100  
100 63.8 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VY0  
Ion 100.00 (99.70 to 100.70): VY0

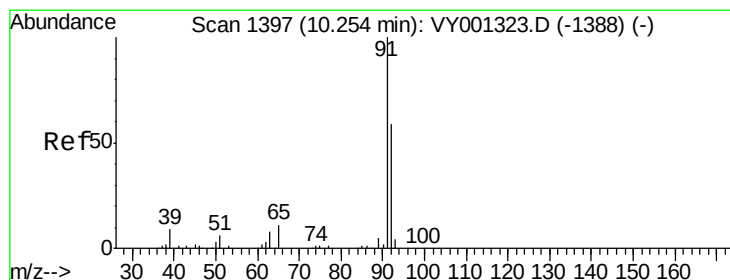
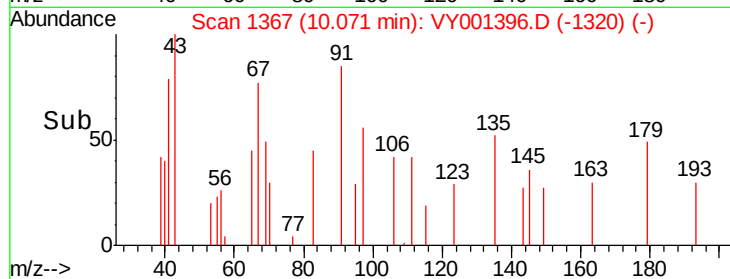
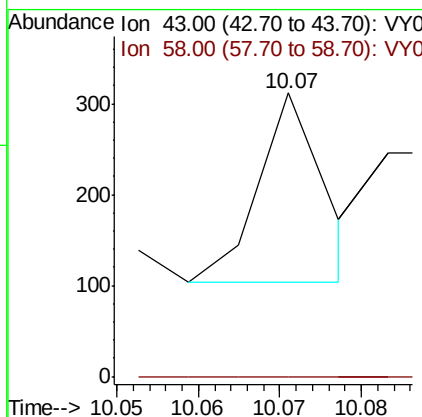
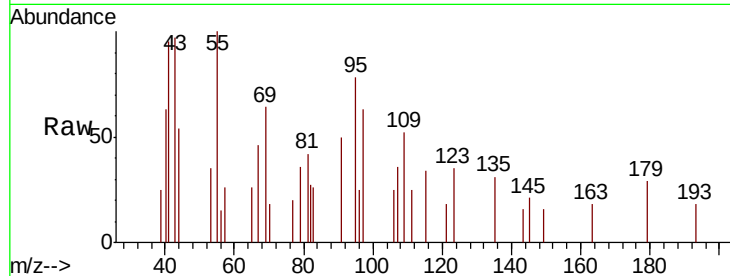




#51  
4-Methyl-2-Pentanone  
Concen: 2.363 ug/l  
RT: 10.07 min Scan# 1367  
Delta R.T. -0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

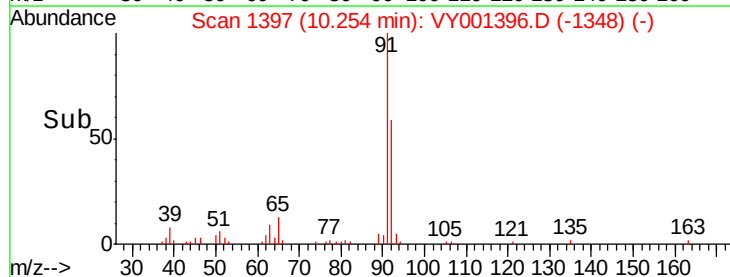
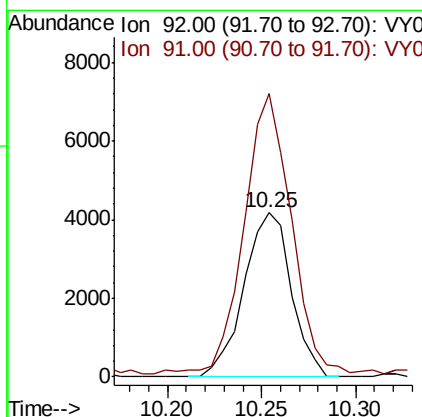
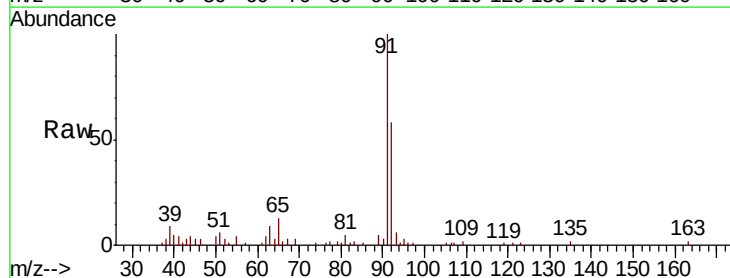
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion: 43 Resp: 116  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.5 47.3#

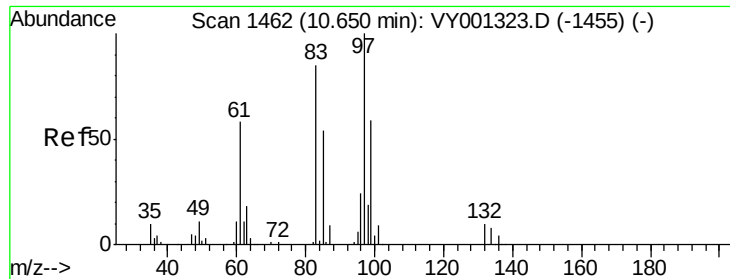


#52  
Toluene  
Concen: 47.452 ug/l  
RT: 10.25 min Scan# 1397  
Delta R.T. -0.00 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Tgt Ion: 92 Resp: 7236  
Ion Ratio Lower Upper  
92 100  
91 170.4 136.4 204.6



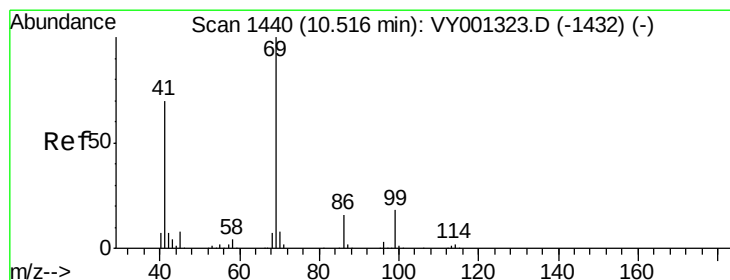
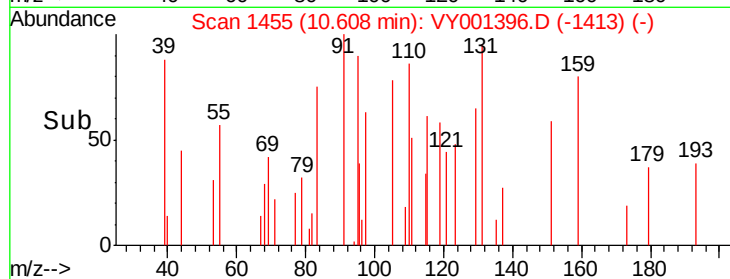
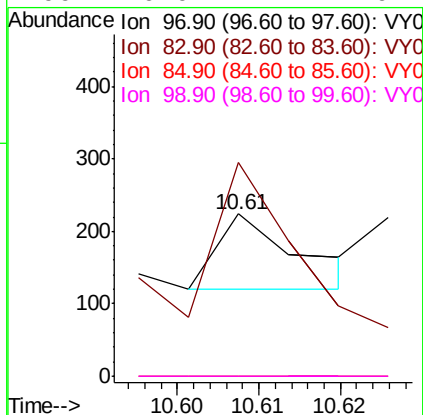
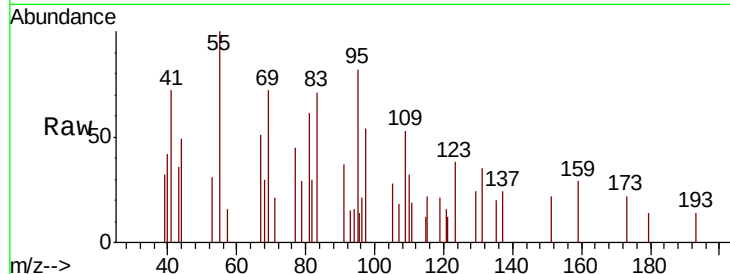




#55  
 1,1,2-Trichloroethane  
 Concen: 1.494 ug/l  
 RT: 10.61 min Scan# 1455  
 Delta R.T. -0.04 min  
 Lab File: VY001396.D  
 Acq: 24 Jan 2020 20:22

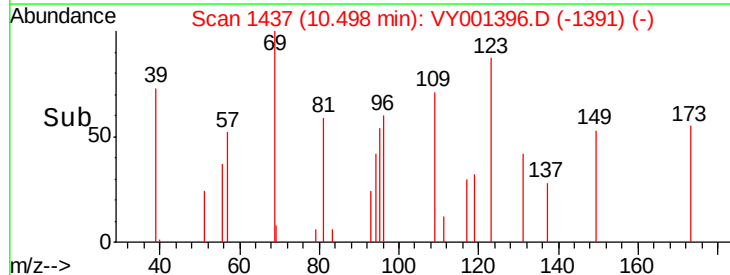
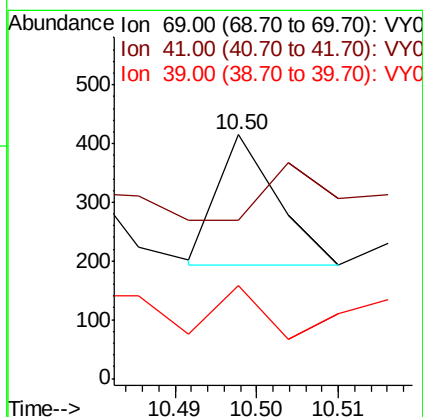
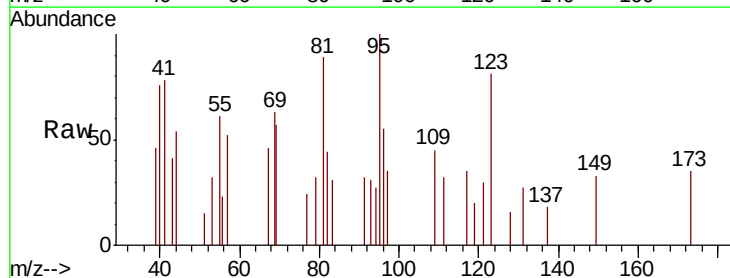
Instrument :  
 MSVOA\_Y  
 ClientSampled :

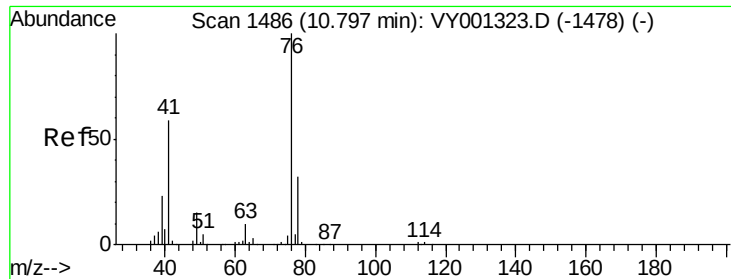
Tot Ion: 97 Resp: 72  
 Ion Ratio Lower Upper  
 97 100  
 83 204.8 68.0 102.0#  
 85 0.0 43.6 65.4#  
 99 0.0 47.1 70.7#



#56  
 Ethyl methacrylate  
 Concen: 1.538 ug/l  
 RT: 10.50 min Scan# 1437  
 Delta R.T. -0.02 min  
 Lab File: VY001396.D  
 Acq: 24 Jan 2020 20:22

Tgt Ion: 69 Resp: 112  
 Ion Ratio Lower Upper  
 69 100  
 41 67.9 54.1 81.1  
 39 0.0 26.8 40.2#





#57

1,3-Dichloropropane

Concen: 3.586 ug/l

RT: 10.97 min Scan# 1515

Delta R.T. 0.18 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

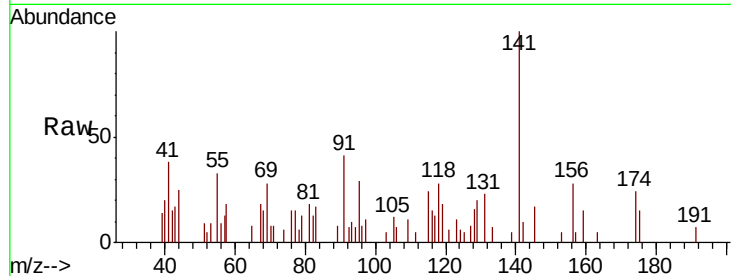
ClientSampleId :

Tot Ion: 76 Resp: 301

Ion Ratio Lower Upper

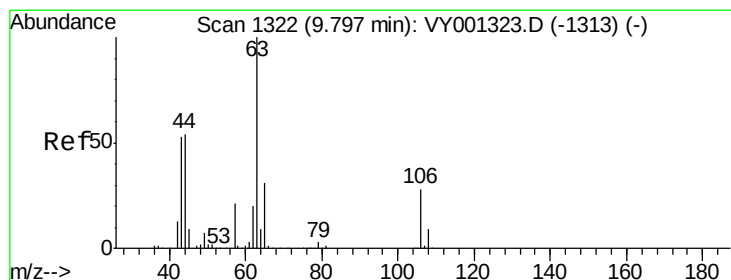
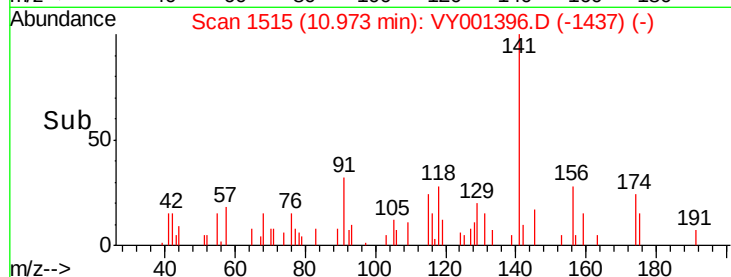
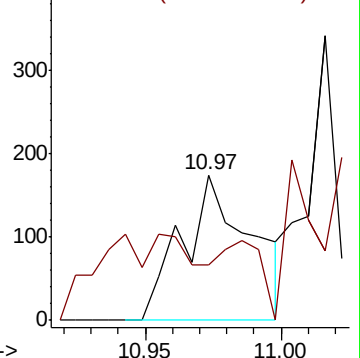
76 100

78 32.2 25.8 38.8



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#58

2-Chloroethyl Vinyl ether

Concen: 2.341 ug/l

RT: 9.67 min Scan# 1301

Delta R.T. -0.13 min

Lab File: VY001396.D

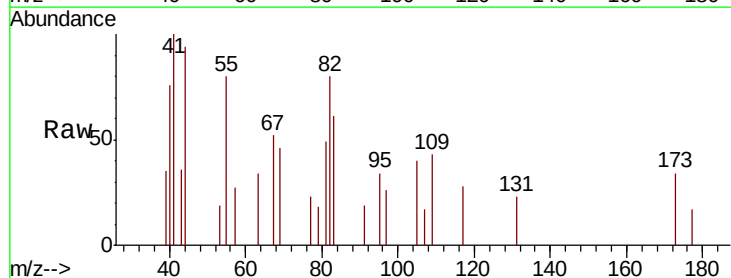
Acq: 24 Jan 2020 20:22

Tgt Ion: 63 Resp: 59

Ion Ratio Lower Upper

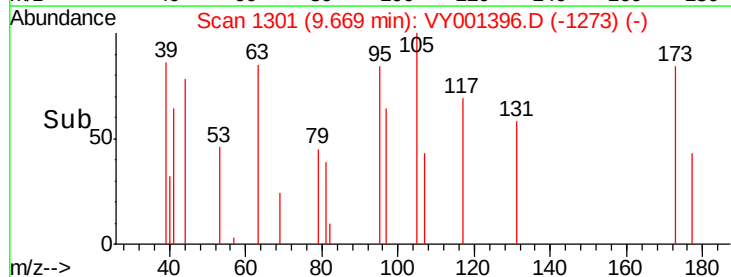
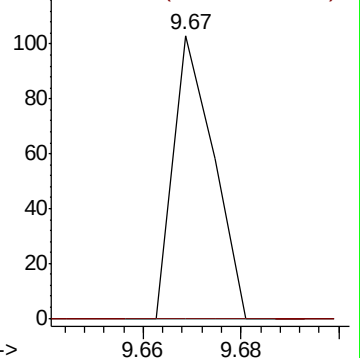
63 100

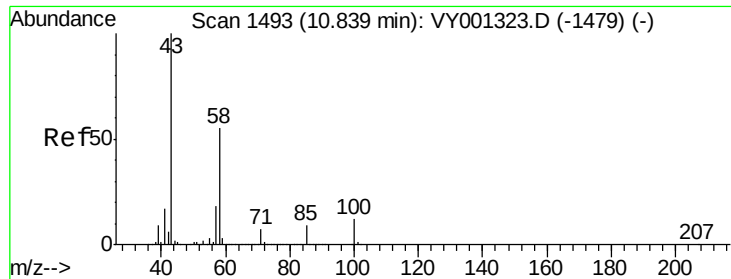
106 0.0 22.5 33.7#



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V





#59

2-Hexanone

Concen: 3.219 ug/l

RT: 10.86 min Scan# 1497

Delta R.T. 0.02 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

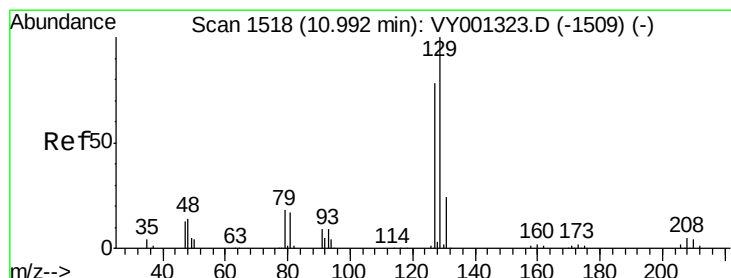
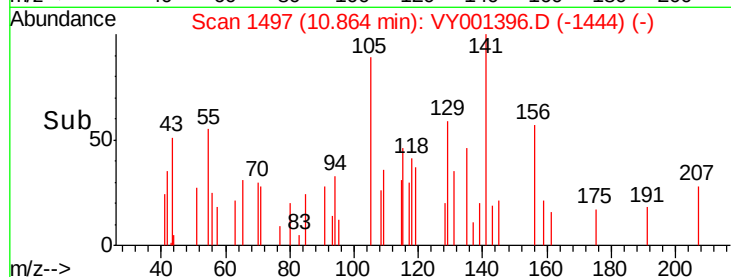
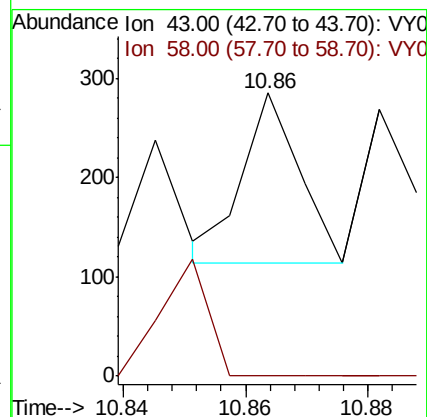
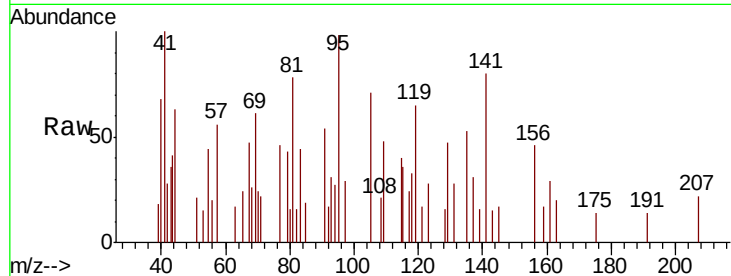
ClientSampled :

Tot Ion: 43 Resp: 110

Ion Ratio Lower Upper

43 100

58 58.2 27.6 82.8



#60

Dibromochloromethane

Concen: 4.101 ug/l

RT: 11.05 min Scan# 1528

Delta R.T. 0.06 min

Lab File: VY001396.D

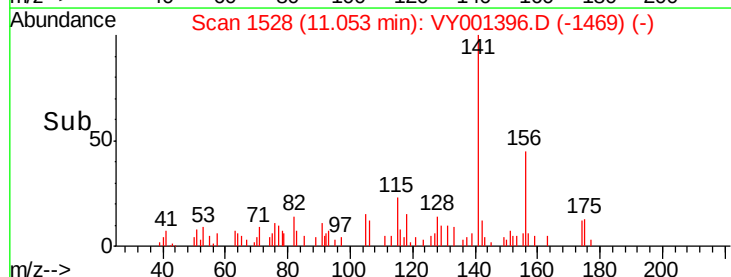
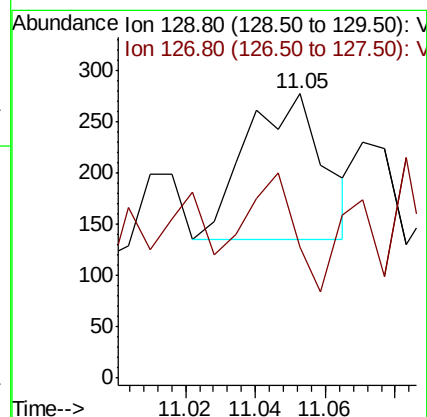
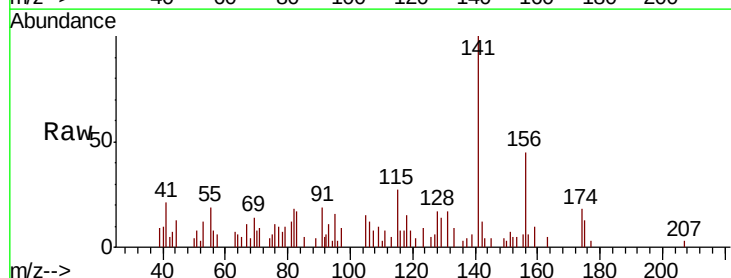
Acq: 24 Jan 2020 20:22

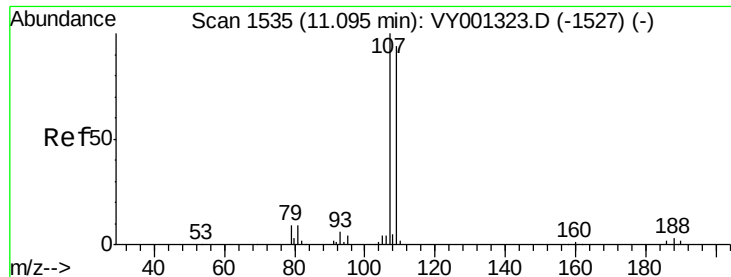
Tgt Ion: 129 Resp: 221

Ion Ratio Lower Upper

129 100

127 59.7 38.8 116.4

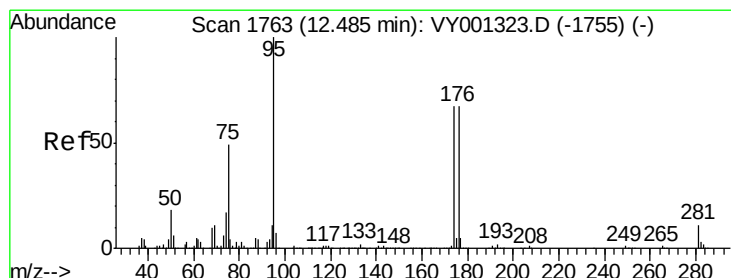
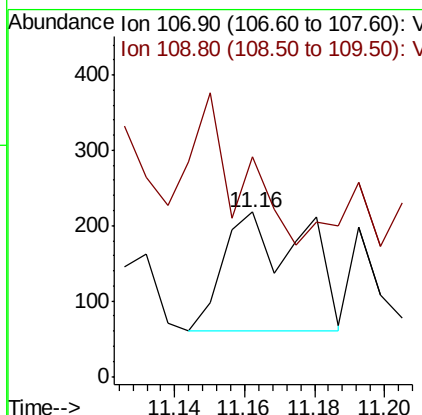
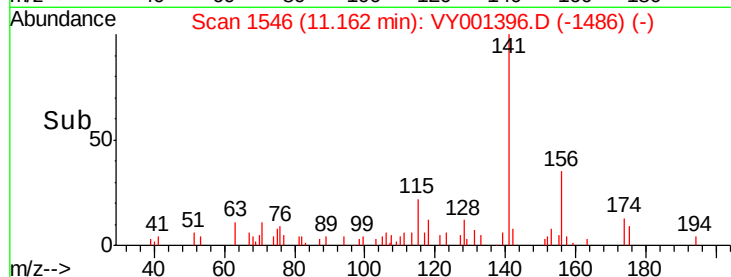
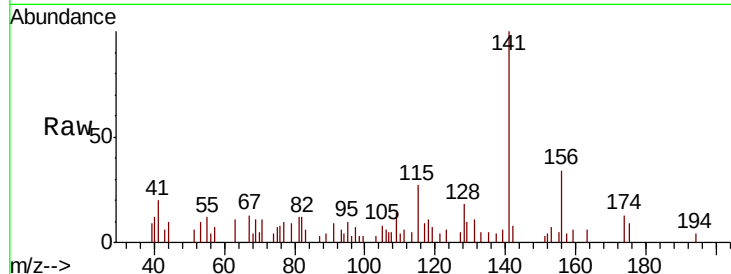




#61  
 1,2-Dibromoethane  
 Concen: 5.510 ug/l  
 RT: 11.16 min Scan# 1546  
 Delta R.T. 0.07 min  
 Lab File: VY001396.D  
 Acq: 24 Jan 2020 20:22

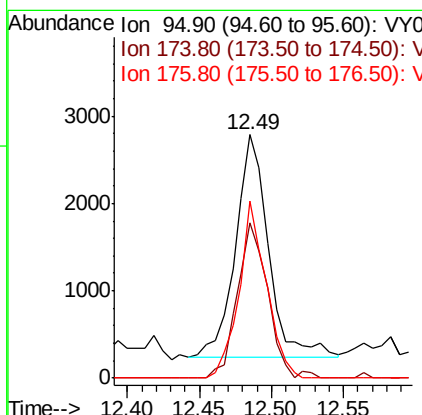
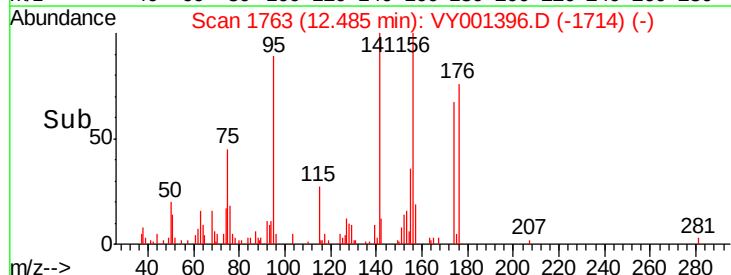
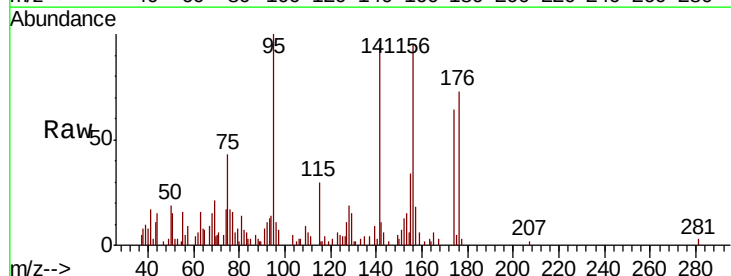
Instrument :  
 MSVOA\_Y  
 ClientSampled :

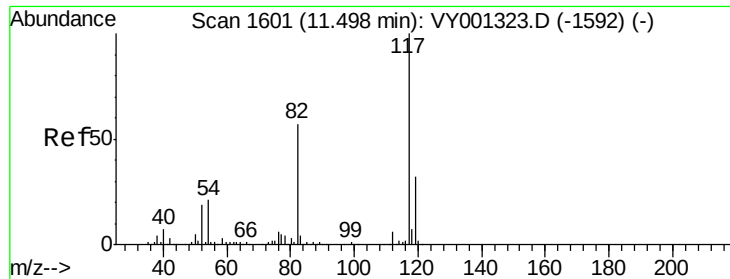
Tot Ion: 107 Resp: 251  
 Ion Ratio Lower Upper  
 107 100  
 109 86.9 75.0 112.6



#62  
 4-Bromofluorobenzene  
 Concen: 52.636 ug/l  
 RT: 12.49 min Scan# 1763  
 Delta R.T. -0.00 min  
 Lab File: VY001396.D  
 Acq: 24 Jan 2020 20:22

Tgt Ion: 95 Resp: 4059  
 Ion Ratio Lower Upper  
 95 100  
 174 64.3 0.0 142.0  
 176 65.7 0.0 138.6

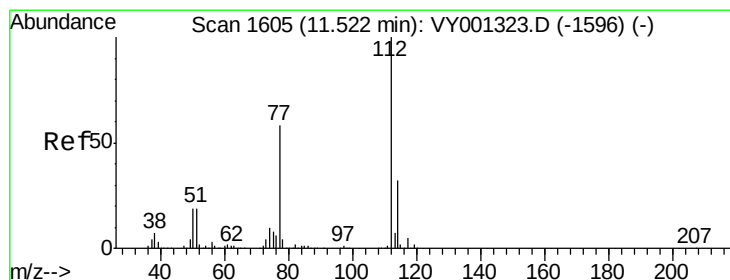
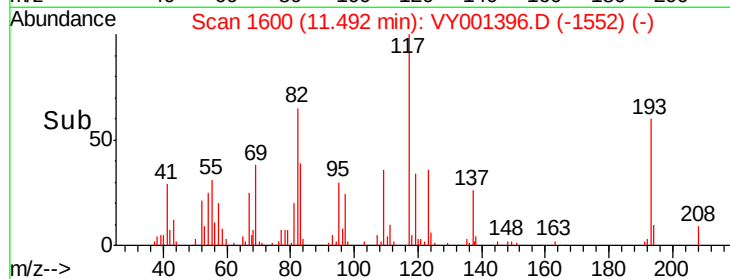
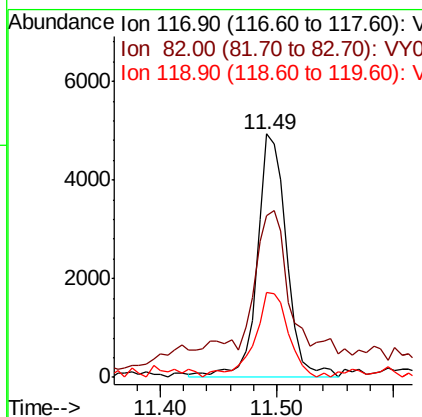
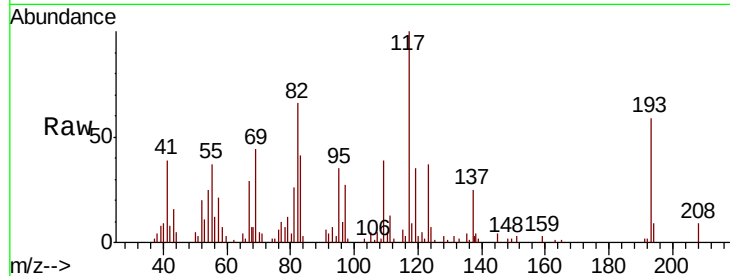




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

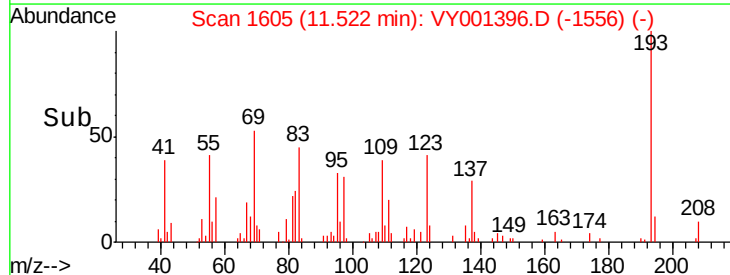
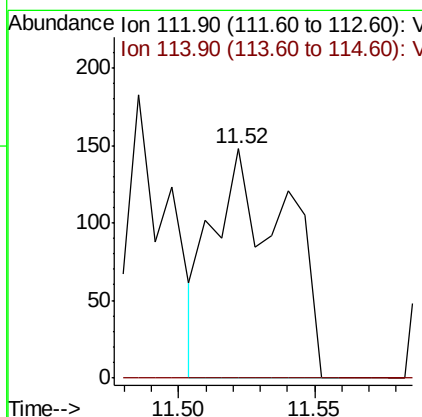
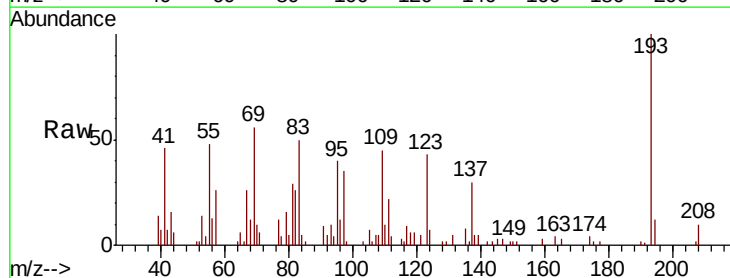
Instrument :  
MSVOA\_Y  
ClientSampleId :

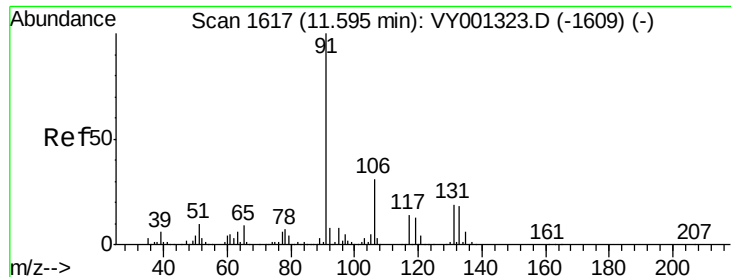
Tot Ion:117 Resp: 8681  
Ion Ratio Lower Upper  
117 100  
82 56.9 45.5 68.3  
119 32.7 25.8 38.6



#65  
Chlorobenzene  
Concen: 1.481 ug/l  
RT: 11.52 min Scan# 1605  
Delta R.T. -0.00 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Tgt Ion:112 Resp: 271  
Ion Ratio Lower Upper  
112 100  
114 0.0 25.8 38.6#

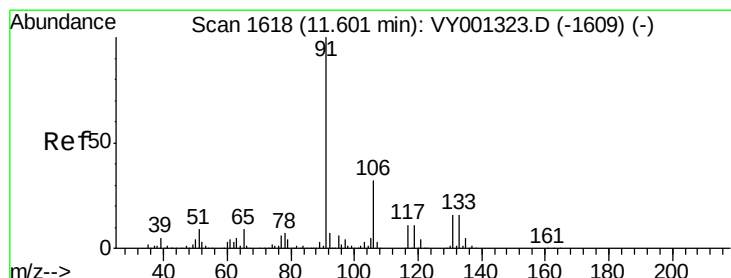
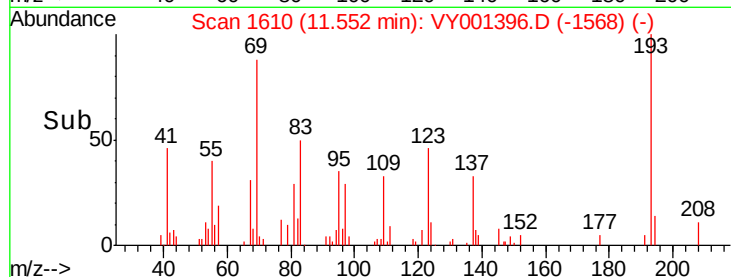
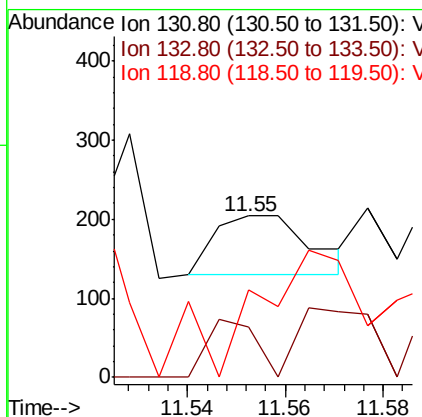
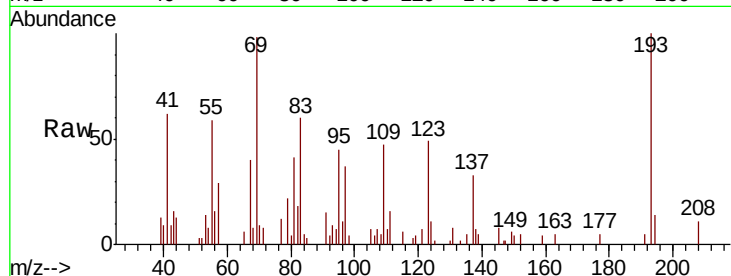




#66  
1,1,1,2-Tetrachloroethane  
Concen: 1.617 ug/l  
RT: 11.55 min Scan# 1610  
Delta R.T. -0.04 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

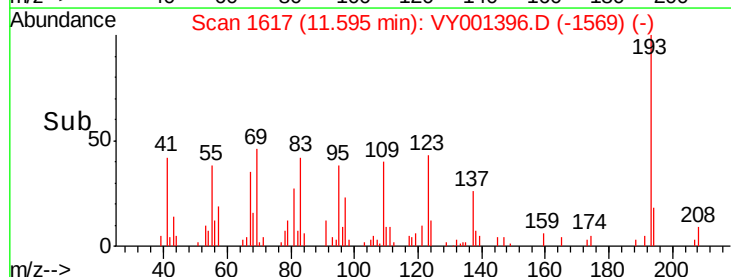
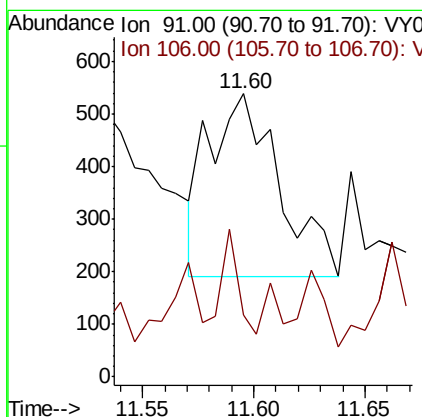
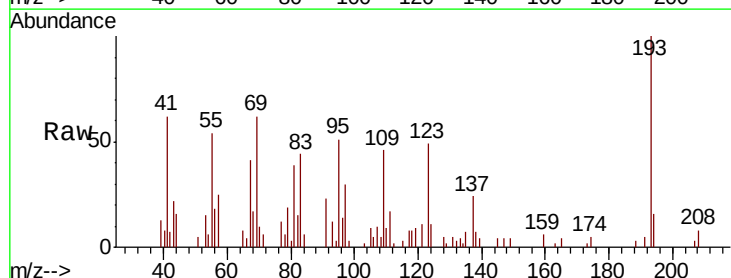
Instrument :  
MSVOA\_Y  
ClientSampleId :

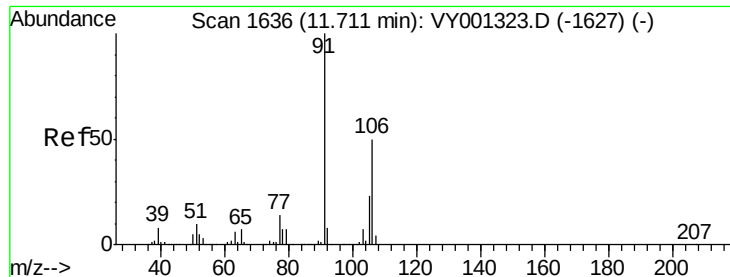
Tot Ion:131 Resp: 101  
Ion Ratio Lower Upper  
131 100  
133 49.5 47.1 141.3  
119 0.0 34.1 102.2#



#67  
Ethyl Benzene  
Concen: 2.263 ug/l  
RT: 11.60 min Scan# 1617  
Delta R.T. -0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Tgt Ion: 91 Resp: 763  
Ion Ratio Lower Upper  
91 100  
106 17.9 25.4 38.0#

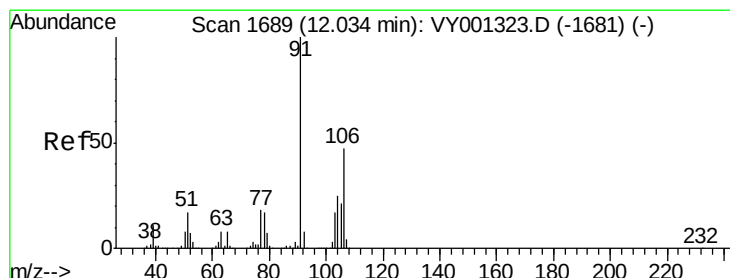
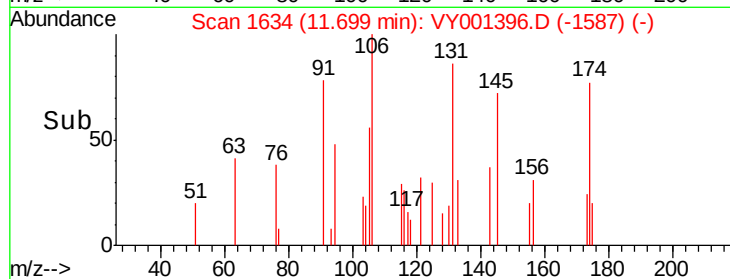
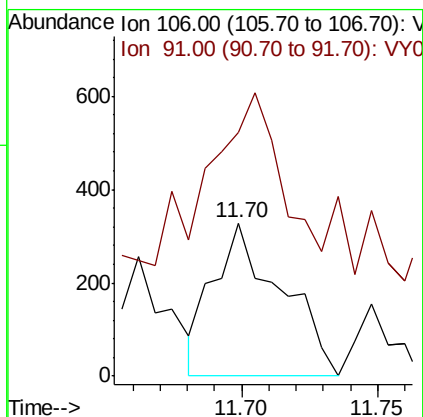
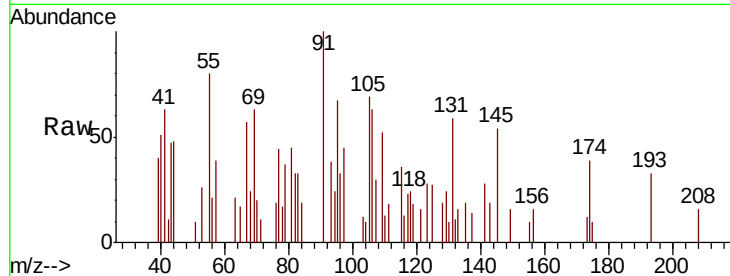




#68  
m/p-Xylenes  
Concen: 4.518 ug/l  
RT: 11.70 min Scan# 1634  
Delta R.T. -0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

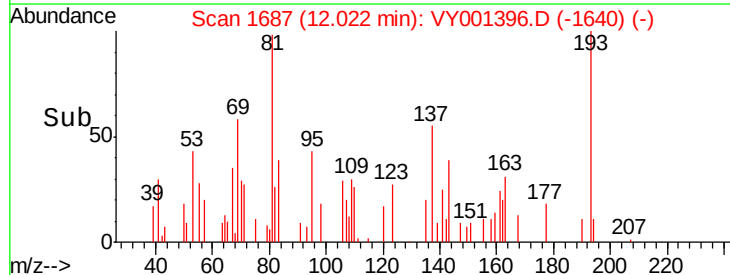
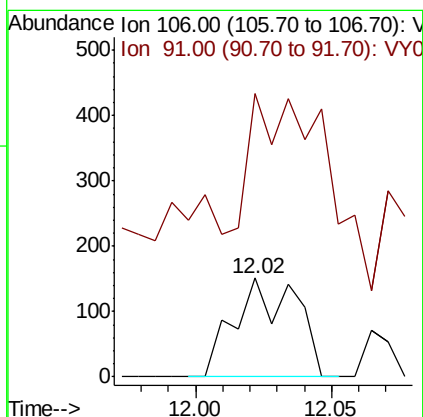
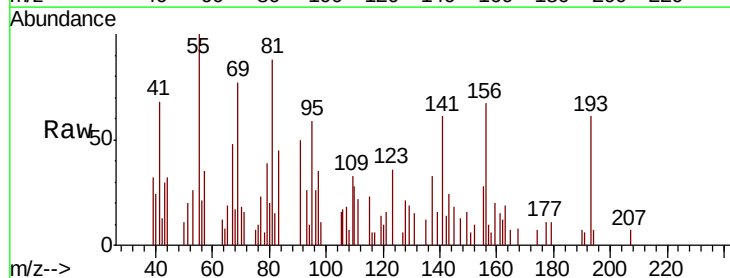
Instrument :  
MSVOA\_Y  
ClientSampleId :

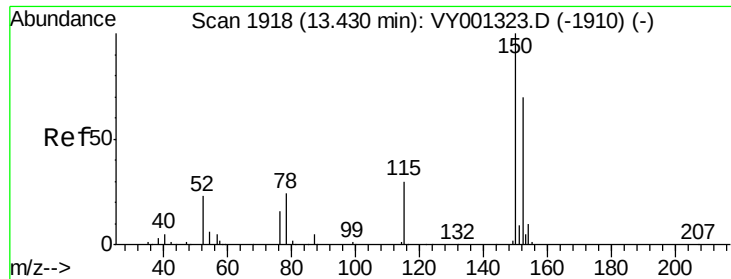
Tot Ion:106 Resp: 569  
Ion Ratio Lower Upper  
106 100  
91 109.0 162.8 244.2#



#69  
o-Xylene  
Concen: 1.931 ug/l  
RT: 12.02 min Scan# 1687  
Delta R.T. -0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Tgt Ion:106 Resp: 234  
Ion Ratio Lower Upper  
106 100  
91 255.6 106.3 319.0



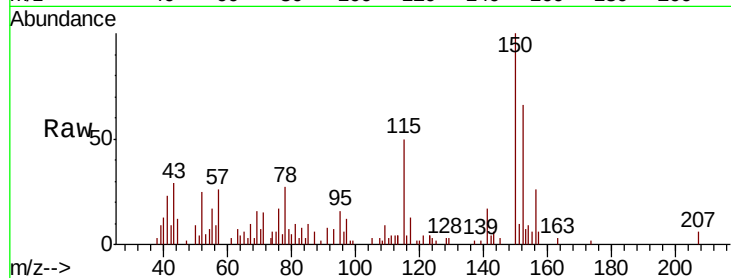


#72

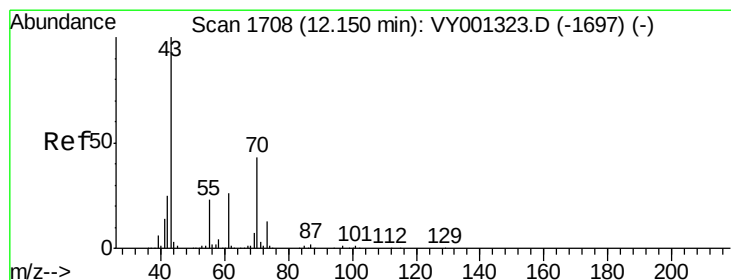
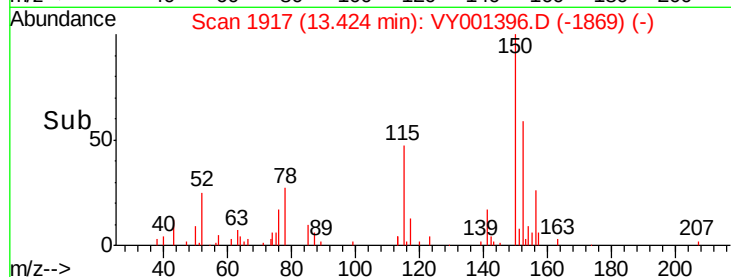
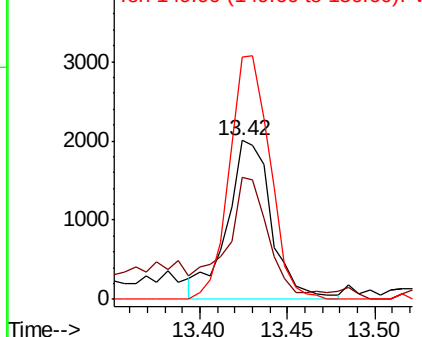
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:152 Resp: 3524  
Ion Ratio Lower Upper  
152 100  
115 62.5 30.9 92.8  
150 140.6 0.0 349.2



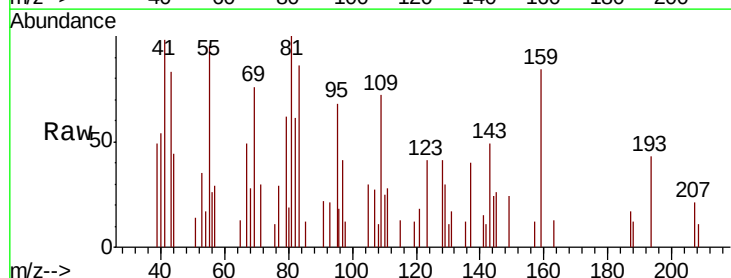
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



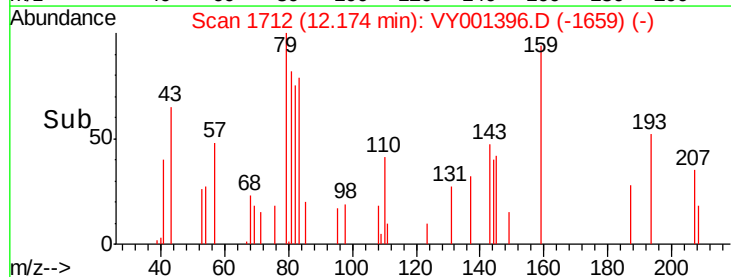
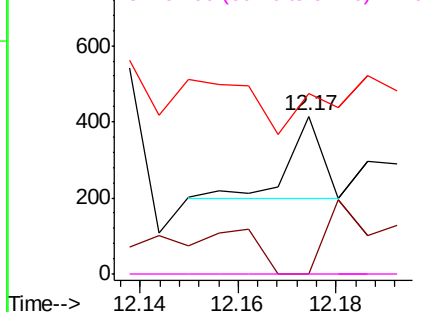
#74

N-amyl acetate  
Concen: 1.110 ug/l  
RT: 12.17 min Scan# 1712  
Delta R.T. 0.02 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

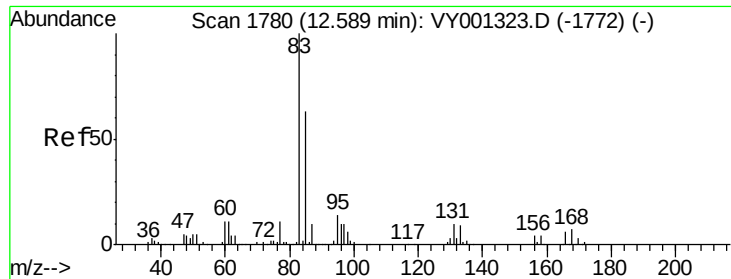
Tgt Ion: 43 Resp: 101  
Ion Ratio Lower Upper  
43 100  
70 0.0 33.5 50.3#  
55 0.0 18.2 27.2#  
61 0.0 19.6 29.4#



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 70.00 (69.70 to 70.70): VY0  
Ion 55.00 (54.70 to 55.70): VY0  
Ion 61.00 (60.70 to 61.70): VY0







#75

1,1,2,2-Tetrachloroethane

Concen: 5.676 ug/l

RT: 12.57 min Scan# 1777

Delta R.T. -0.02 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

ClientSampleId :

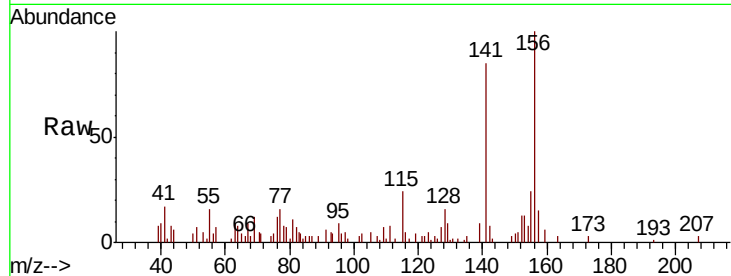
Tot Ion: 83 Resp: 338

Ion Ratio Lower Upper

83 100

131 19.2 4.9 14.6#

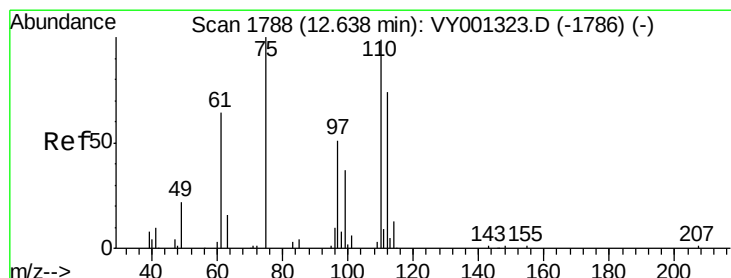
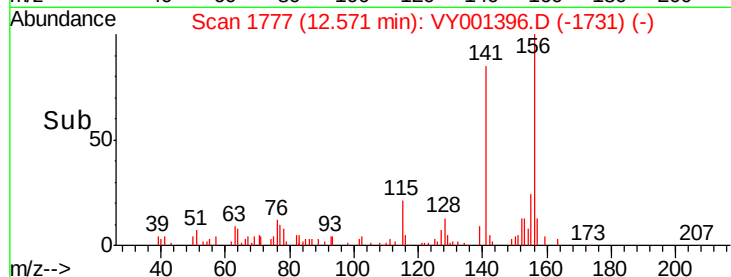
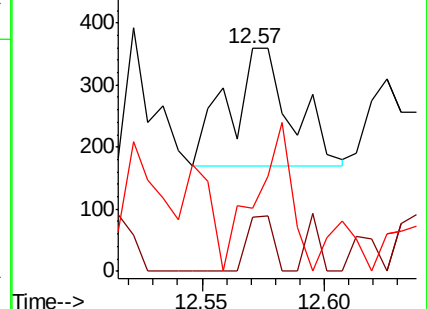
85 72.5 31.4 94.3



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VY0



#76

1,2,3-Trichloropropane

Concen: 2.473 ug/l

RT: 12.63 min Scan# 1787

Delta R.T. -0.01 min

Lab File: VY001396.D

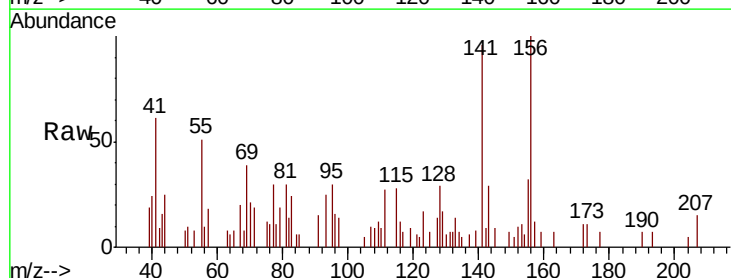
Acq: 24 Jan 2020 20:22

Tgt Ion: 75 Resp: 105

Ion Ratio Lower Upper

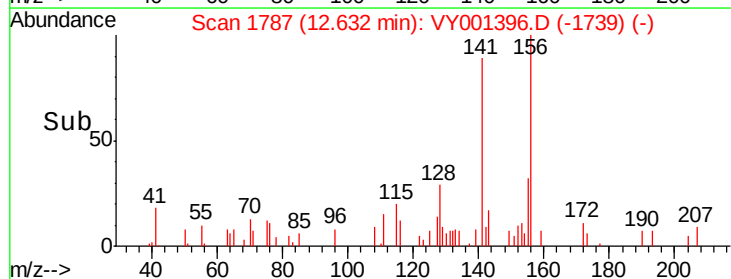
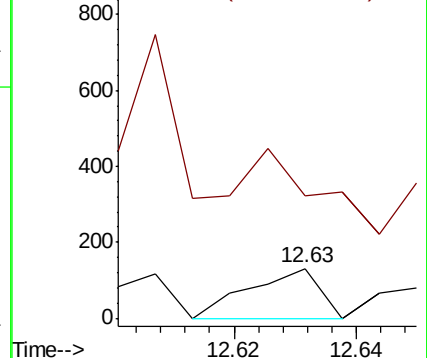
75 100

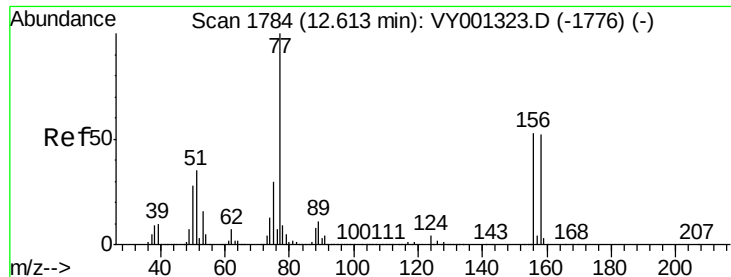
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 577.539 ug/l

RT: 12.54 min Scan# 1772

Delta R.T. -0.07 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

ClientSampleId :

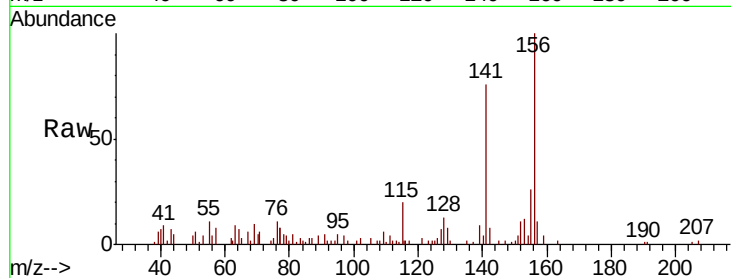
Tot Ion:156 Resp: 35571

Ion Ratio Lower Upper

156 100

77 0.5 104.7 313.9#

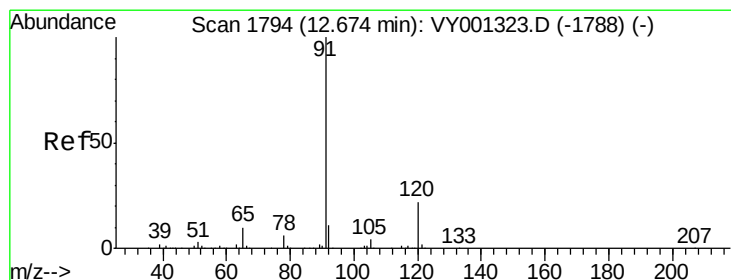
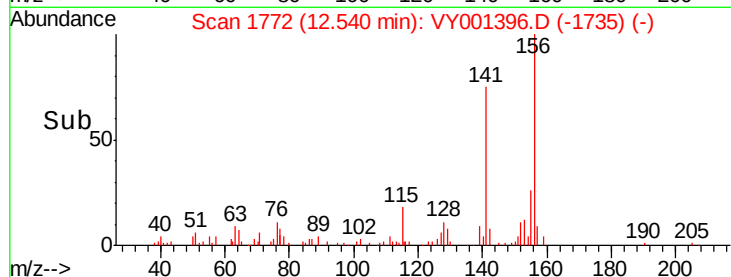
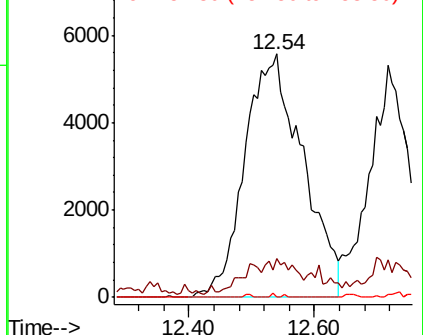
158 0.1 48.6 145.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 3.618 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. 0.01 min

Lab File: VY001396.D

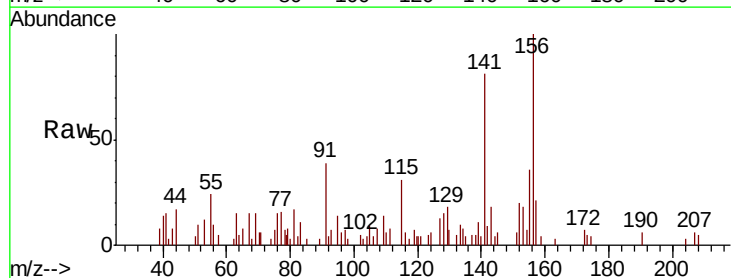
Acq: 24 Jan 2020 20:22

Tgt Ion: 91 Resp: 1211

Ion Ratio Lower Upper

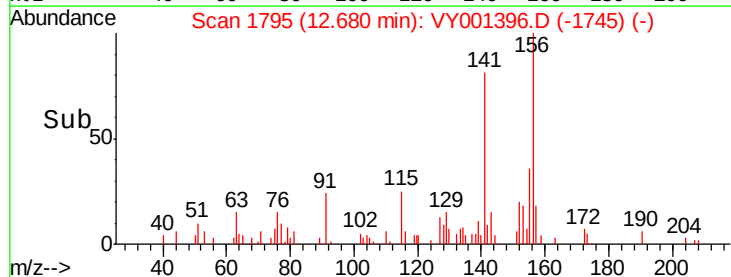
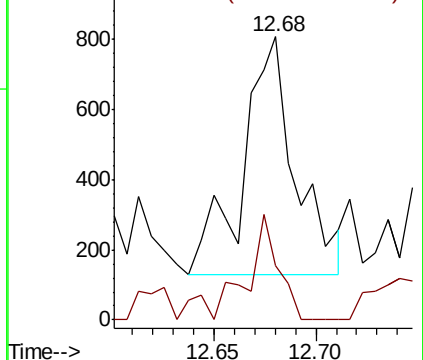
91 100

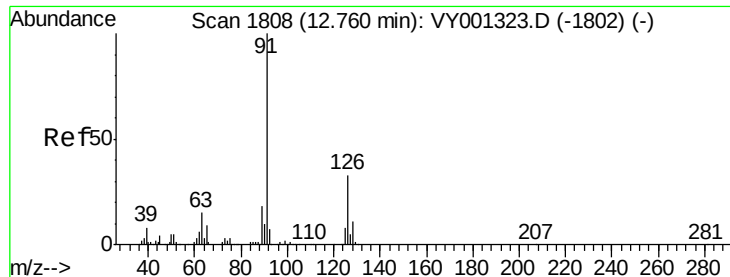
120 25.7 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 1.375 ug/l

RT: 12.93 min Scan# 1836

Delta R.T. 0.17 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

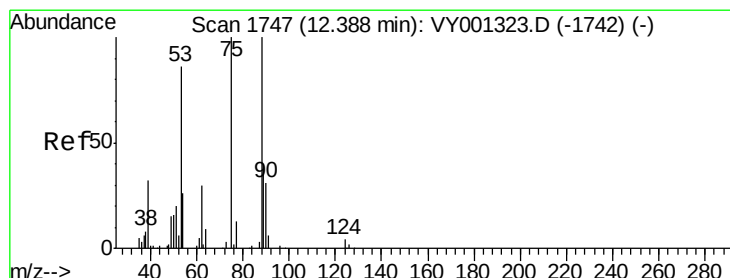
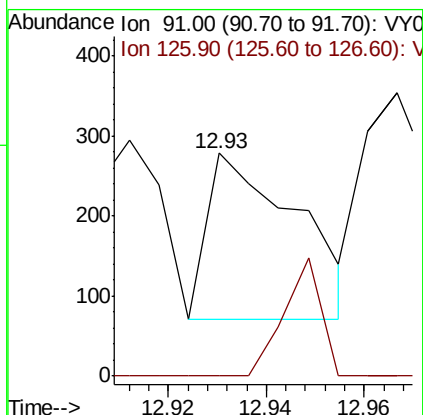
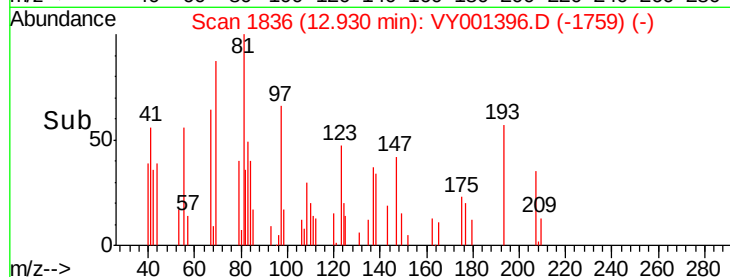
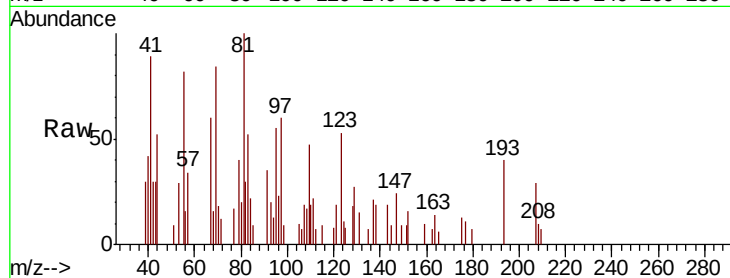
ClientSampleId :

Tot Ion: 91 Resp: 263

Ion Ratio Lower Upper

91 100

126 28.9 16.6 49.7



#81

trans-1,4-Dichloro-2-butene

Concen: 107.756 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

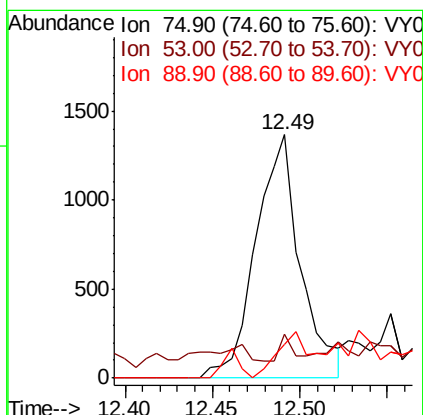
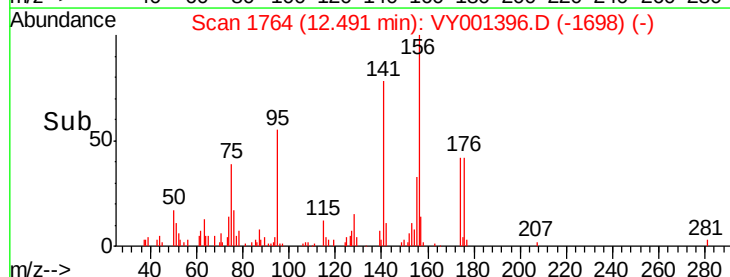
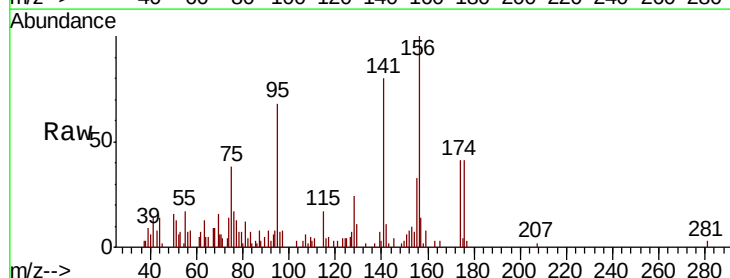
Tgt Ion: 75 Resp: 2418

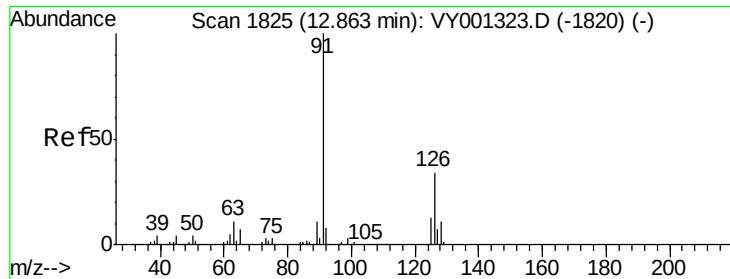
Ion Ratio Lower Upper

75 100

53 3.0 69.9 104.9#

89 15.6 36.6 54.8#

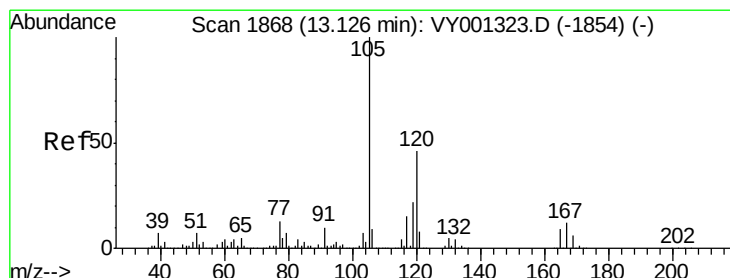
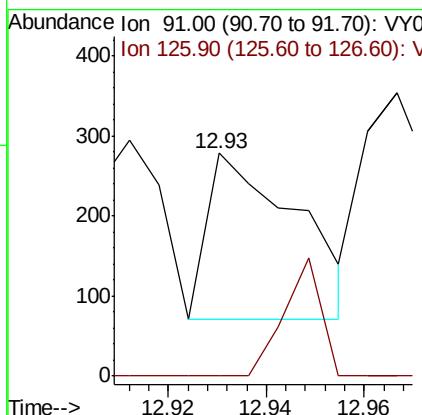
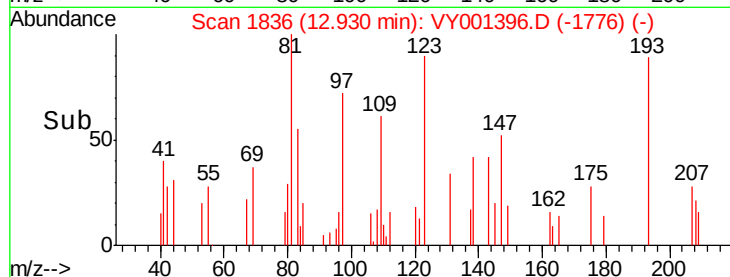
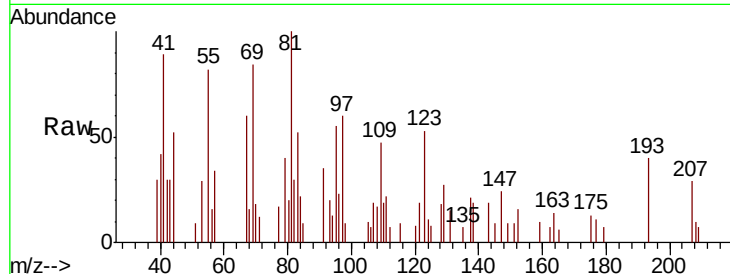




#82  
4-Chlorotoluene  
Concen: 1.288 ug/l  
RT: 12.93 min Scan# 1836  
Delta R.T. 0.07 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

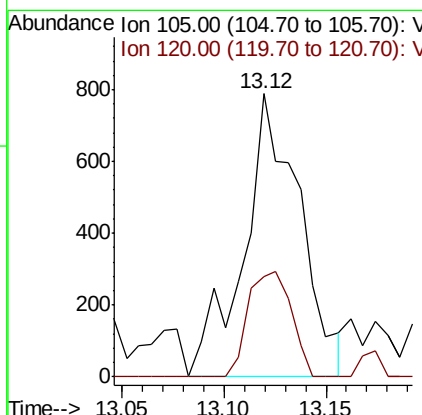
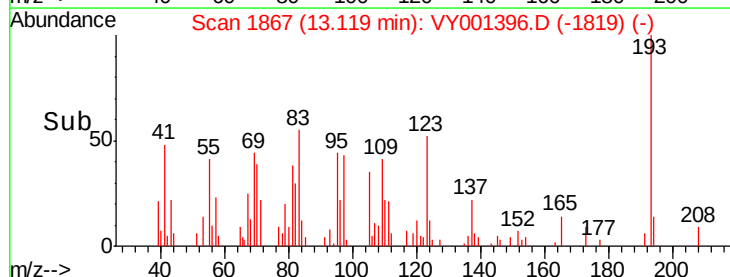
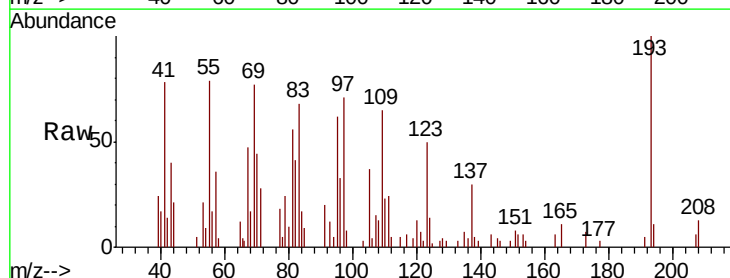
Instrument :  
MSVOA\_Y  
ClientSampled :

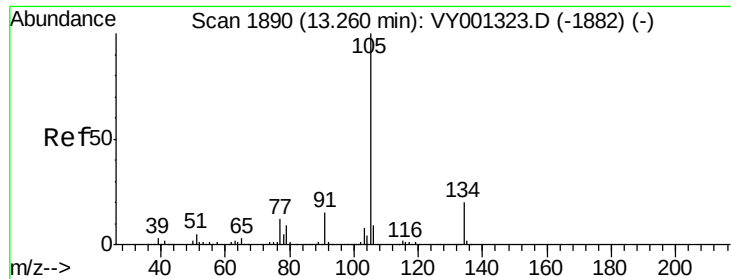
Tot Ion: 91 Resp: 263  
Ion Ratio Lower Upper  
91 100  
126 28.9 16.4 49.4



#84  
1,2,4-Trimethylbenzene  
Concen: 6.510 ug/l  
RT: 13.12 min Scan# 1867  
Delta R.T. -0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Tgt Ion: 105 Resp: 1517  
Ion Ratio Lower Upper  
105 100  
120 28.4 22.4 67.3





#85

sec-Butylbenzene

Concen: 3.471 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.01 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

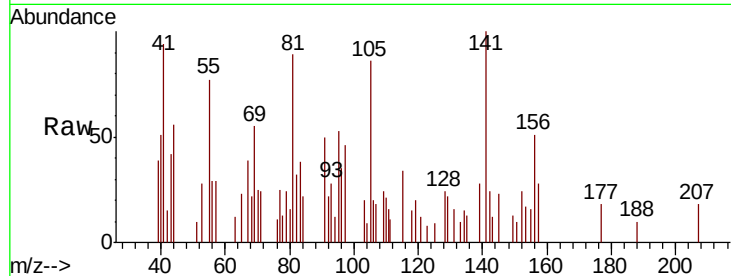
ClientSampled :

Tot Ion:105 Resp: 965

Ion Ratio Lower Upper

105 100

134 23.8 9.8 29.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.25

600

500

400

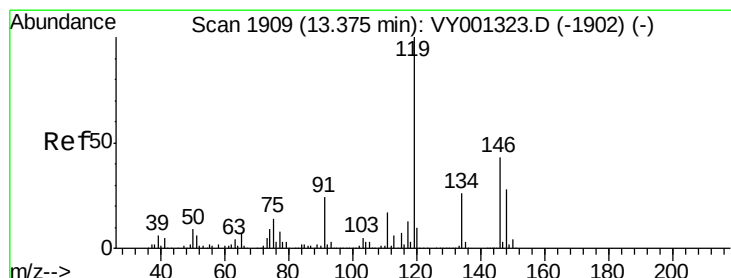
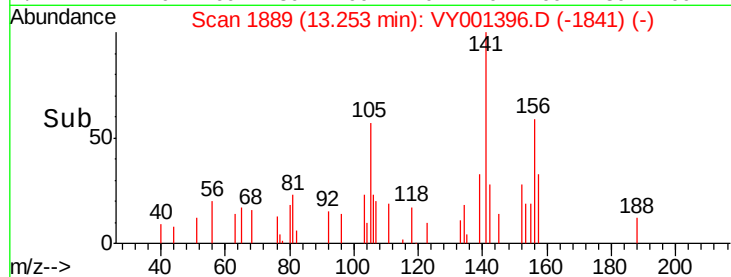
300

200

100

0

Time-->



#86

p-Isopropyltoluene

Concen: 1.625 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. -0.00 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

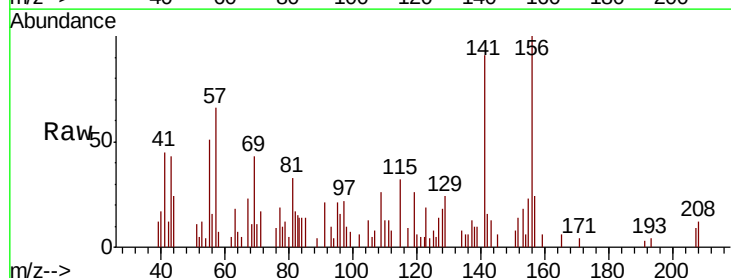
Tgt Ion:119 Resp: 398

Ion Ratio Lower Upper

119 100

134 21.6 13.5 40.4

91 60.6 12.2 36.6#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0

500

400

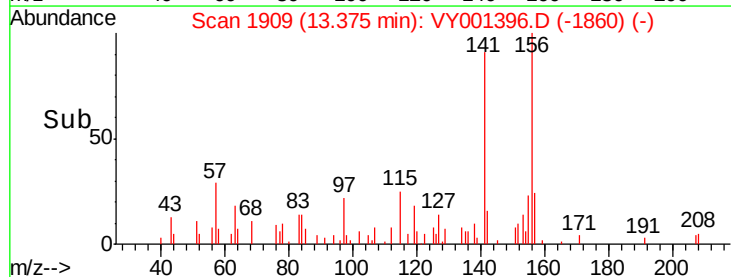
300

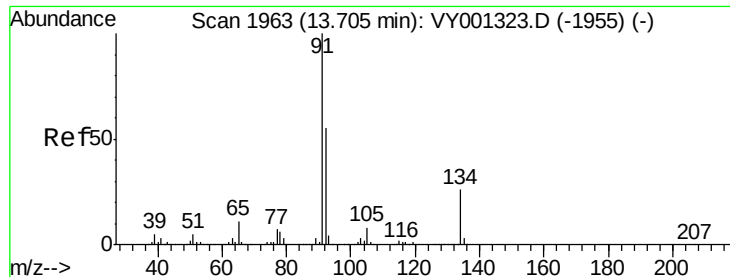
200

100

0

Time-->

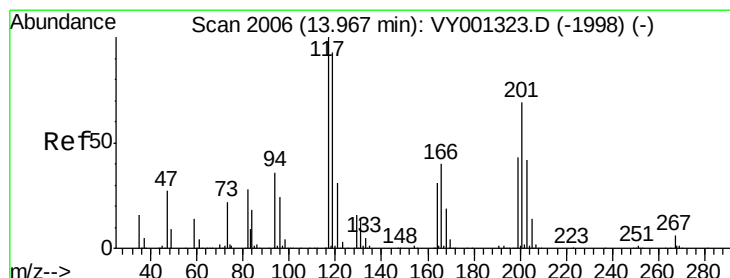
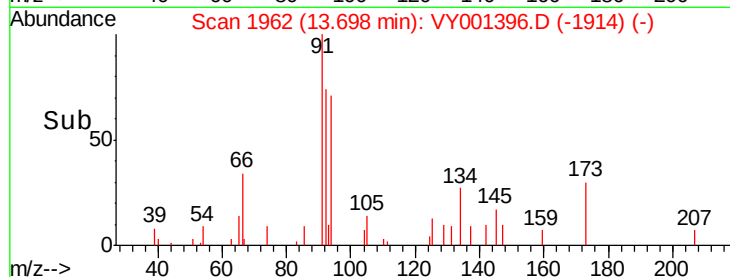
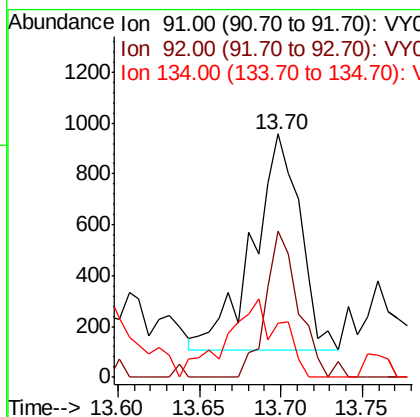
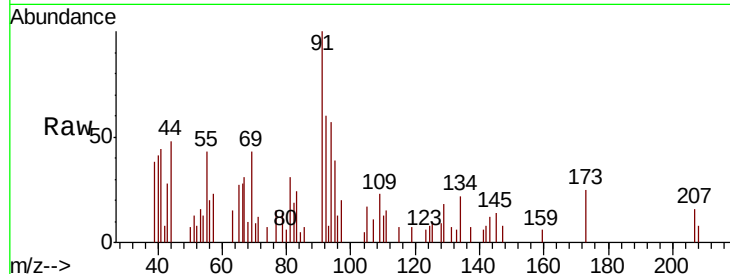




#89  
n-Butylbenzene  
Concen: 6.859 ug/l  
RT: 13.70 min Scan# 1962  
Delta R.T. -0.01 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

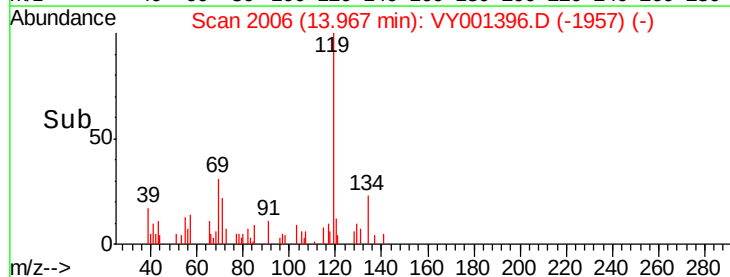
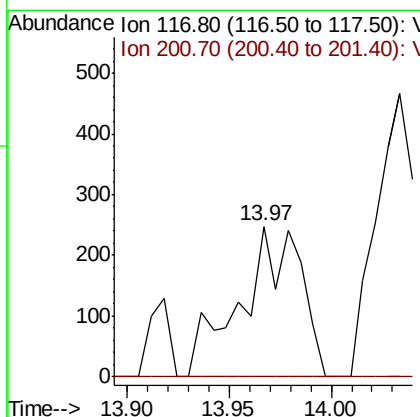
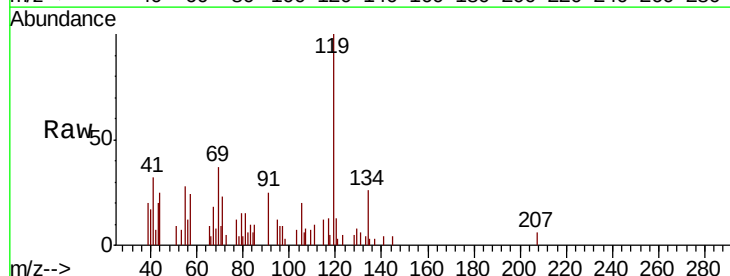
Instrument :  
MSVOA\_Y  
ClientSampleId :

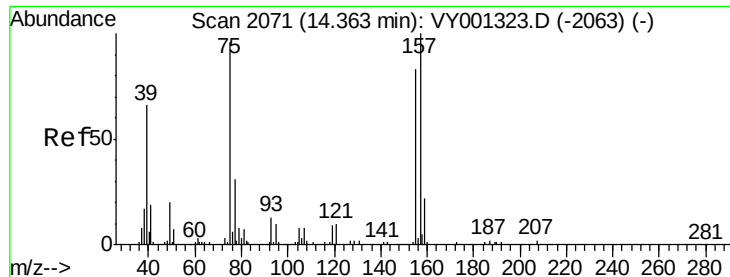
Tot Ion: 91 Resp: 1691  
Ion Ratio Lower Upper  
91 100  
92 48.0 27.6 82.8  
134 41.5 12.9 38.6#



#90  
Hexachloroethane  
Concen: 11.026 ug/l  
RT: 13.97 min Scan# 2006  
Delta R.T. -0.00 min  
Lab File: VY001396.D  
Acq: 24 Jan 2020 20:22

Tgt Ion: 117 Resp: 512  
Ion Ratio Lower Upper  
117 100  
201 0.0 34.6 103.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 45.152 ug/l

RT: 14.57 min Scan# 2105

Delta R.T. 0.21 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

Instrument :

MSVOA\_Y

ClientSampleId :

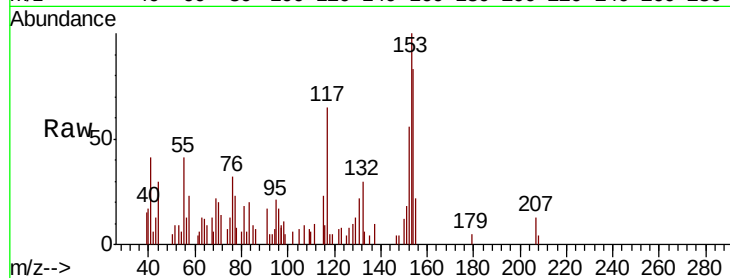
Tot Ion: 75 Resp: 464

Ion Ratio Lower Upper

75 100

155 154.5 43.0 129.2#

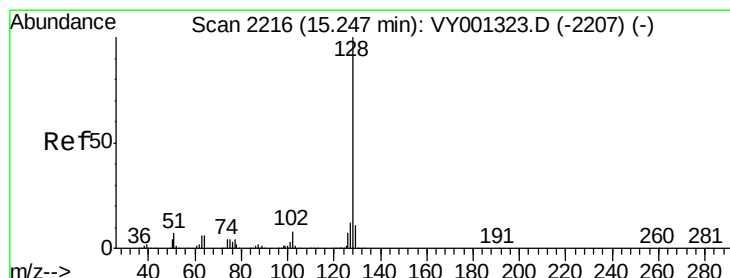
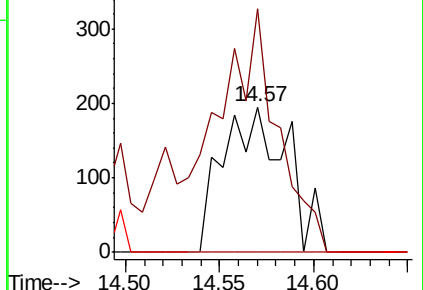
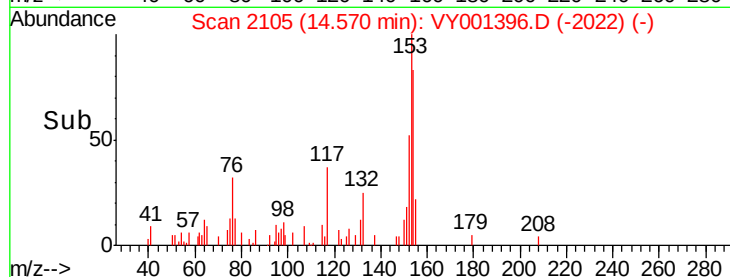
157 0.0 53.3 160.0#



Abundance Ion 74.90 (74.60 to 75.60): VY001396.D (-2022) (-)

Ion 154.80 (154.50 to 155.50): VY001396.D (-2022) (-)

Ion 156.80 (156.50 to 157.50): VY001396.D (-2022) (-)



#95

Naphthalene

Concen: 42.416 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001396.D

Acq: 24 Jan 2020 20:22

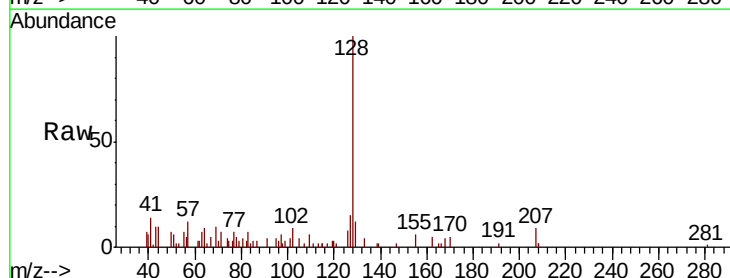
Tgt Ion: 128 Resp: 7121

Ion Ratio Lower Upper

128 100

127 16.6 10.2 15.2#

129 19.2 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VY001396.D (-2167) (-)

Ion 127.00 (126.70 to 127.70): VY001396.D (-2167) (-)

Ion 129.00 (128.70 to 129.70): VY001396.D (-2167) (-)

