

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101119\  
 Data File : VY000279.D  
 Acq On : 11 Oct 2019 18:35  
 Operator : SY/MD  
 Sample : K5266-07  
 Misc : 5.04G/MSVOA Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 14 07:37:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 14 07:29:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 202894   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 365554   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 323428   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 147696   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 122945   | 57.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.90% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 59009    | 26.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 53.52%  |          |
| 50) Toluene-d8              | 10.19 | 98   | 422444   | 49.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.60%  |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 147773   | 45.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.72%  |          |

| Target Compounds             | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.90  | 85   | 20       | Below Cal | #      | 41     |
| 4) Vinyl Chloride            | 2.25  | 62   | 413505   | 165.259   | ug/l   | 99     |
| 5) Bromomethane              | 2.67  | 94   | 24       | Below Cal |        | 95     |
| 6) Chloroethane              | 2.80  | 64   | 22364    | 13.852    | ug/l # | 86     |
| 10) Methyl Iodide            | 4.08  | 142  | 25       | 1.194     | ug/l # | 9      |
| 11) Tert butyl alcohol       | 4.98  | 59   | 1134     | 5.063     | ug/l # | 73     |
| 12) 1,1-Dichloroethene       | 3.88  | 96   | 55762    | 27.212    | ug/l   | 96     |
| 15) Acrylonitrile            | 5.23  | 53   | 1381     | 2.041     | ug/l # | 31     |
| 16) Acetone                  | 3.96  | 43   | 90265    | 130.235   | ug/l   | 93     |
| 17) Carbon Disulfide         | 4.20  | 76   | 26380    | 4.089     | ug/l   | 98     |
| 20) Methylene Chloride       | 4.72  | 84   | 62227    | 23.798    | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene | 5.23  | 96   | 4511     | 1.919     | ug/l   | 87     |
| 24) 1,1-Dichloroethane       | 6.03  | 63   | 226508   | 57.777    | ug/l   | 99     |
| 25) 2-Butanone               | 7.01  | 43   | 27228    | 27.888    | ug/l # | 1      |
| 27) cis-1,2-Dichloroethene   | 7.00  | 96   | 1748340  | 687.244   | ug/l   | 88     |
| 30) Chloroform               | 7.51  | 83   | 4538     | 1.149     | ug/l   | 86     |
| 31) Cyclohexane              | 7.79  | 56   | 49401    | 12.065    | ug/l   | 91     |
| 32) 1,1,1-Trichloroethane    | 7.71  | 97   | 10089    | 2.874     | ug/l   | 97     |
| 37) Ethyl Acetate            | 7.01  | 43   | 27228    | 12.848    | ug/l # | 1      |
| 38) Carbon Tetrachloride     | 7.80  | 117  | 19169    | 5.532     | ug/l # | 17     |
| 39) Methylcyclohexane        | 9.19  | 83   | 366883   | 78.323    | ug/l # | 89     |
| 42) 1,2-Dichloroethane       | 8.25  | 62   | 19508    | 6.603     | ug/l # | 72     |
| 43) Isopropyl Acetate        | 8.28  | 43   | 16649    | 4.132     | ug/l # | 53     |
| 44) Trichloroethene          | 8.95  | 130  | 5673     | 1.955     | ug/l   | 93     |
| 45) 1,2-Dichloropropane      | 9.19  | 63   | 5035     | 1.984     | ug/l # | 1      |
| 47) Bromodichloromethane     | 9.38  | 83   | 3881     | 1.161     | ug/l # | 24     |
| 48) Methyl methacrylate      | 9.37  | 41   | 24482    | 13.864    | ug/l # | 60     |
| 49) 1,4-Dioxane              | 9.32  | 88   | 890      | 41.834    | ug/l # | 71     |
| 51) 4-Methyl-2-Pentanone     | 10.08 | 43   | 3790     | 1.824     | ug/l # | 75     |
| 55) 1,1,2-Trichloroethane    | 10.62 | 97   | 31038    | 15.045    | ug/l # | 19     |
| 56) Ethyl methacrylate       | 10.52 | 69   | 16177    | 5.501     | ug/l # | 4      |
| 59) 2-Hexanone               | 10.85 | 43   | 6769     | 4.640     | ug/l   | 71     |
| 60) Dibromochloromethane     | 10.72 | 129  | 47216    | 20.649    | ug/l # | 9      |
| 64) Tetrachloroethene        | 10.72 | 164  | 50674    | 16.458    | ug/l   | 97     |

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 ClientSampleId :

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 Response via : Initial Calibration

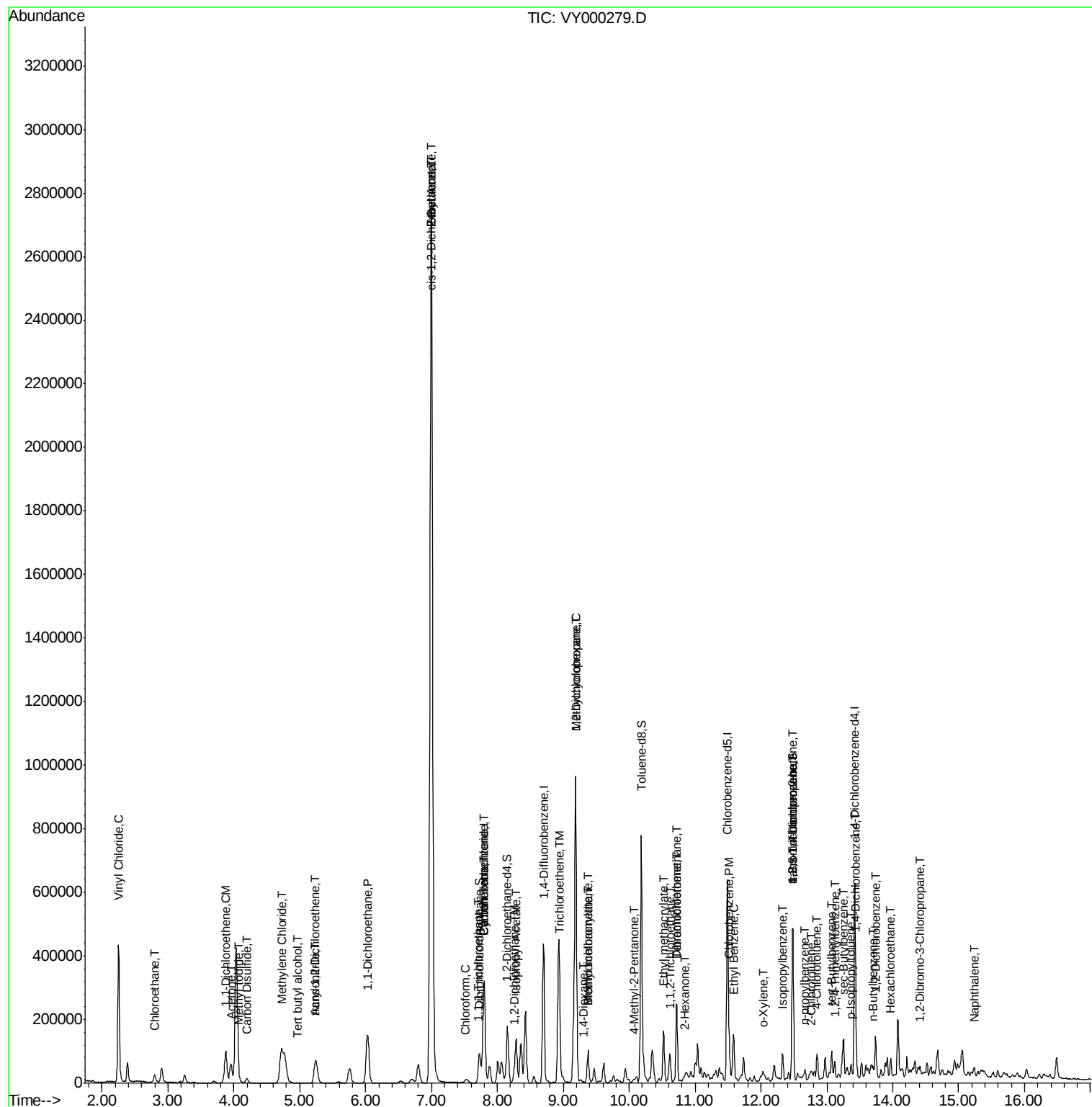
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 65) Chlorobenzene              | 11.52 | 112  | 66485    | 9.740  | ug/l   | 94       |
| 67) Ethyl Benzene              | 11.60 | 91   | 32000    | 2.529  | ug/l   | 94       |
| 69) o-Xylene                   | 12.03 | 106  | 6968     | 1.510  | ug/l   | 96       |
| 73) Isopropylbenzene           | 12.33 | 105  | 47913    | 4.160  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 76191    | 41.952 | ug/l # | 100      |
| 78) n-propylbenzene            | 12.67 | 91   | 24855    | 1.798  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 8395     | 1.099  | ug/l   | 90       |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 76191    | 91.789 | ug/l # | 14       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 43193    | 5.351  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 13.07 | 119  | 40963    | 5.009  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 26033    | 2.731  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 72429    | 6.122  | ug/l # | 75       |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 13447    | 1.304  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 14966    | 2.965  | ug/l   | 89       |
| 89) n-Butylbenzene             | 13.69 | 91   | 14156    | 1.389  | ug/l # | 81       |
| 90) Hexachloroethane           | 13.97 | 117  | 2192     | 1.148  | ug/l # | 13       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 44947    | 9.837  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.41 | 75   | 3740     | 9.120  | ug/l # | 1        |
| 95) Naphthalene                | 15.23 | 128  | 21264    | 2.995  | ug/l # | 95       |
| -----                          |       |      |          |        |        |          |

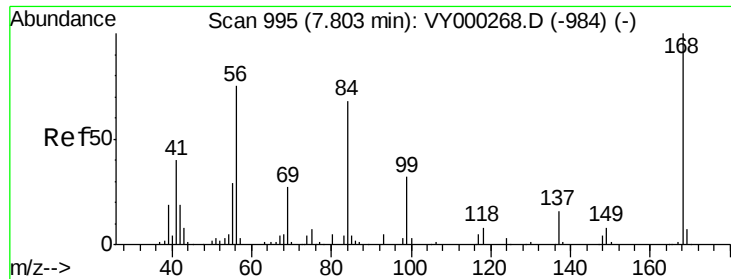
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY101119\  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

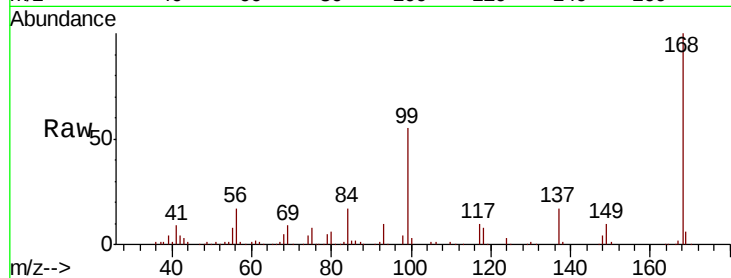
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:168 Resp: 202894

Ion Ratio Lower Upper

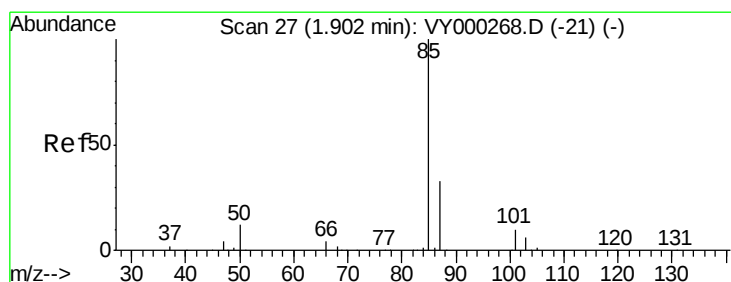
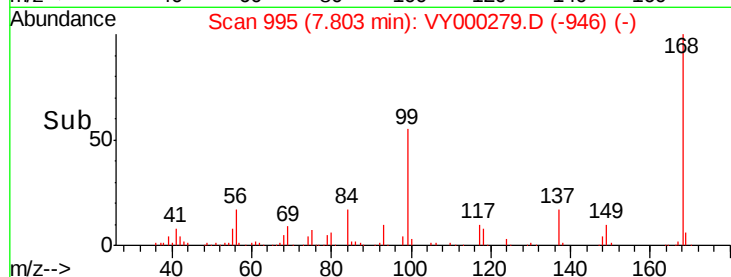
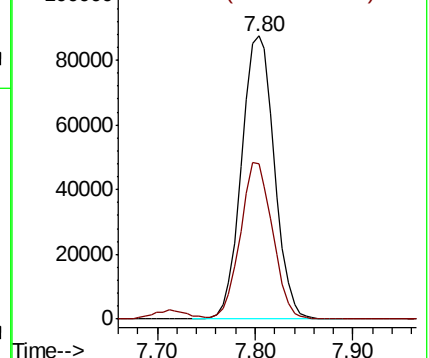
168 100

99 54.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000268.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY000268.D (-984) (-)



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.90 min Scan# 26

Delta R.T. -0.01 min

Lab File: VY000279.D

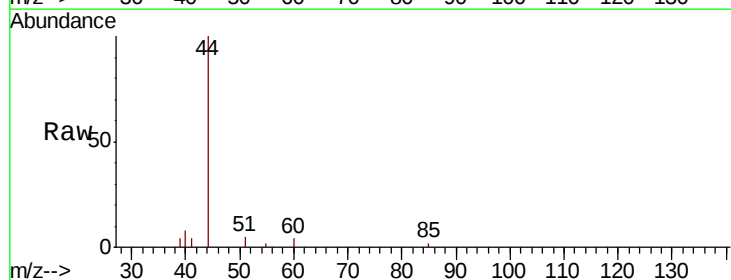
Acq: 11 Oct 2019 18:35

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

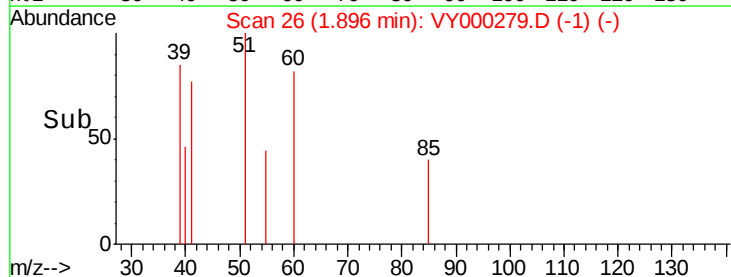
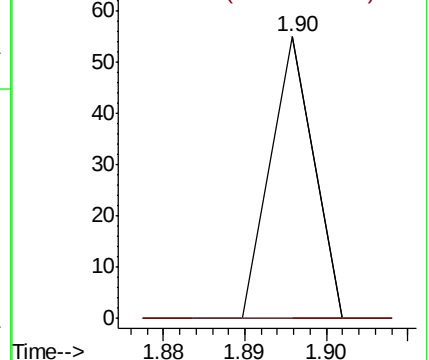
85 100

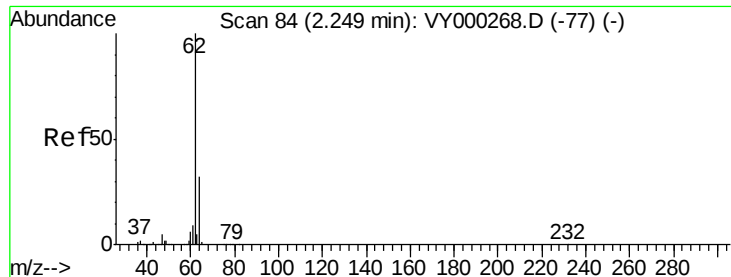
87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VY000268.D (-21) (-)

Ion 86.90 (86.60 to 87.60): VY000268.D (-21) (-)





#4

Vinyl Chloride

Concen: 165.259 ug/l

RT: 2.25 min Scan# 84

Delta R.T. 0.00 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

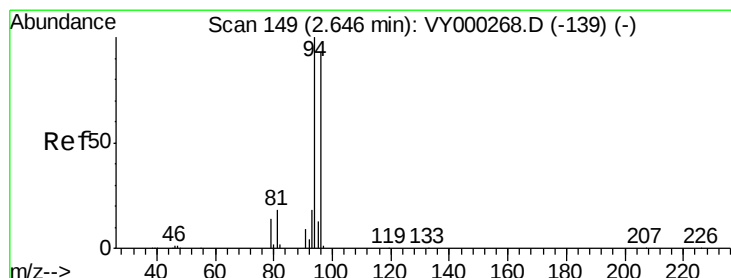
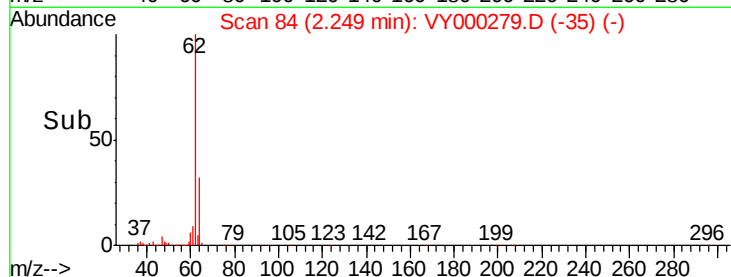
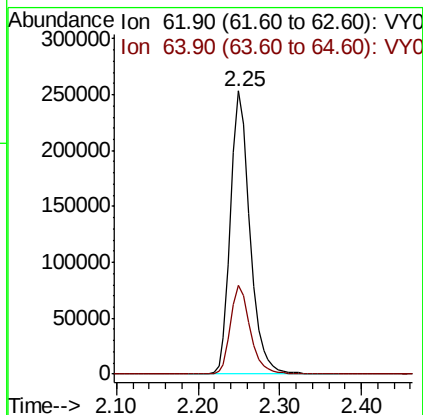
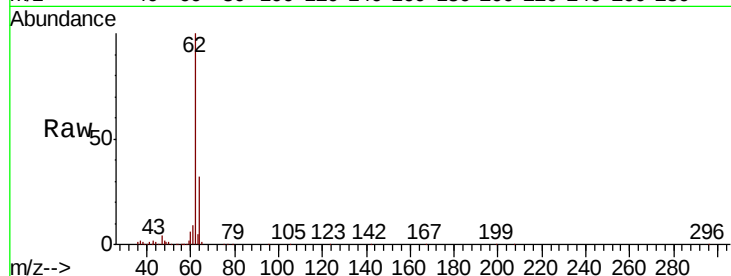
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion: 62 Resp: 413505

Ion Ratio Lower Upper

62 100

64 31.6 25.6 38.4



#5

Bromomethane

Concen: Below Cal

RT: 2.67 min Scan# 153

Delta R.T. 0.03 min

Lab File: VY000279.D

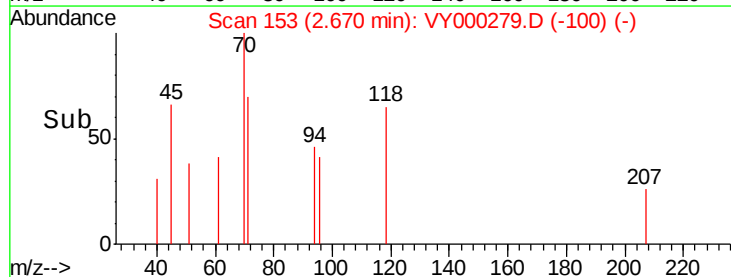
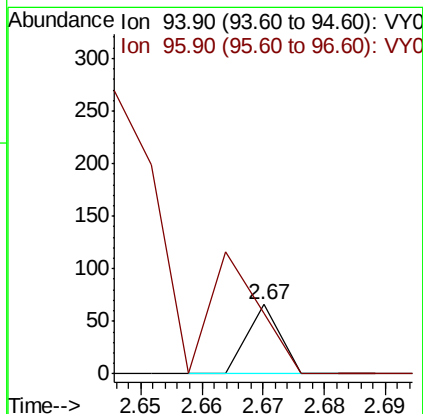
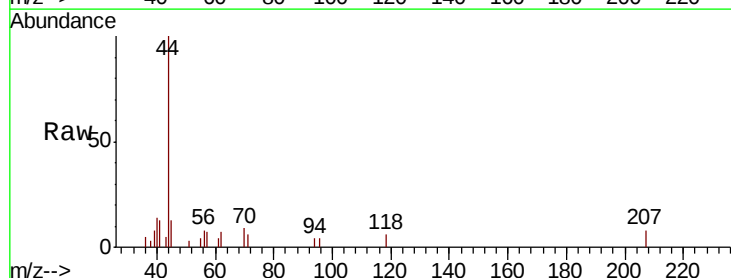
Acq: 11 Oct 2019 18:35

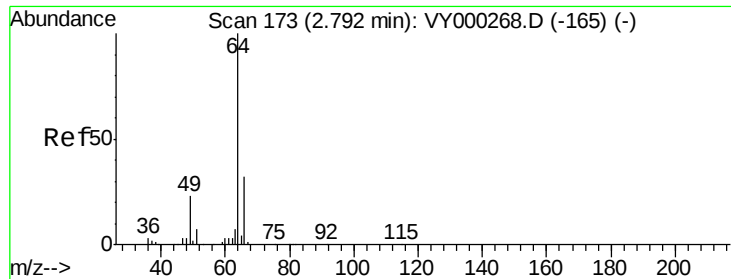
Tgt Ion: 94 Resp: 24

Ion Ratio Lower Upper

94 100

96 87.9 74.2 111.2





#6

Chloroethane

Concen: 13.852 ug/l

RT: 2.80 min Scan# 174

Delta R.T. 0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

Instrument :

MSVOA\_Y

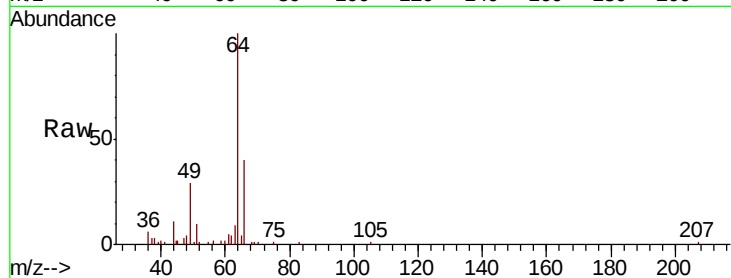
ClientSampleId :

Tot Ion: 64 Resp: 22364

Ion Ratio Lower Upper

64 100

66 39.8 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VY000268.D (-165) (-)

Ion 65.90 (65.60 to 66.60): VY000268.D (-165) (-)

2.80

12000

10000

8000

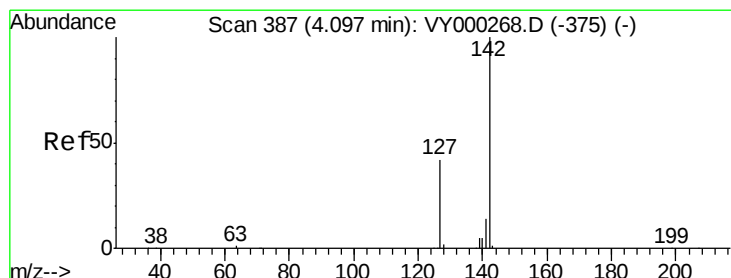
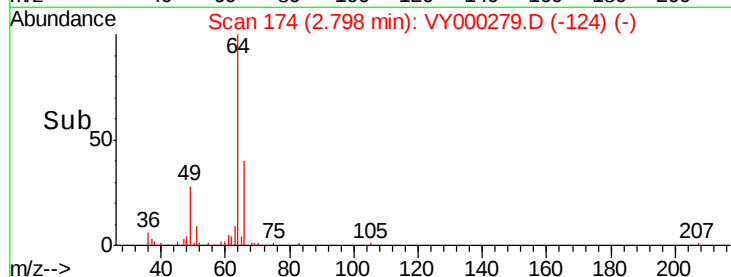
6000

4000

2000

0

Time-->



#10

Methyl Iodide

Concen: 1.194 ug/l

RT: 4.08 min Scan# 385

Delta R.T. -0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

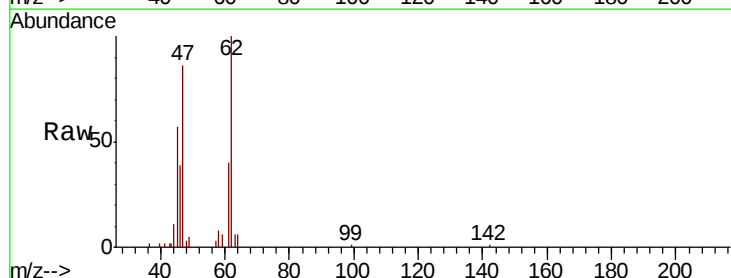
Tgt Ion: 142 Resp: 25

Ion Ratio Lower Upper

142 100

127 112.0 33.9 50.9#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): VY000268.D (-375) (-)

Ion 126.80 (126.50 to 127.50): VY000268.D (-375) (-)

Ion 140.80 (140.50 to 141.50): VY000268.D (-375) (-)

100

80

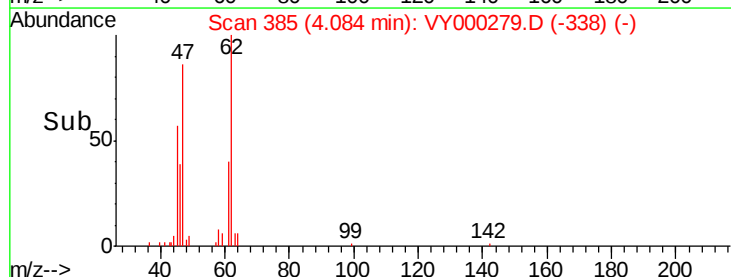
60

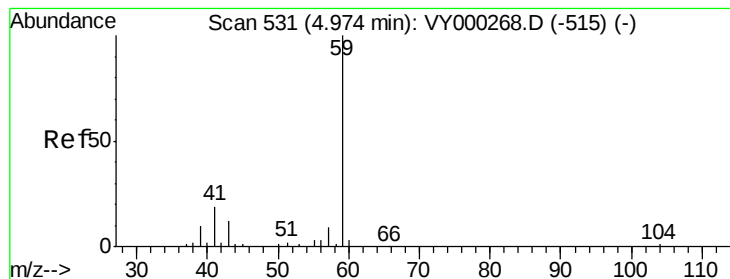
40

20

0

Time-->



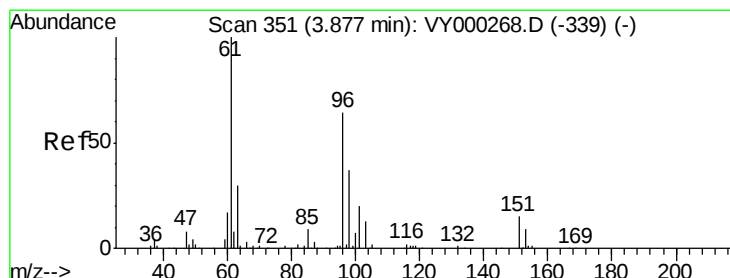
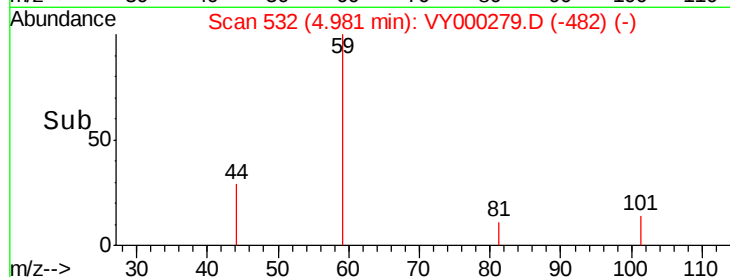
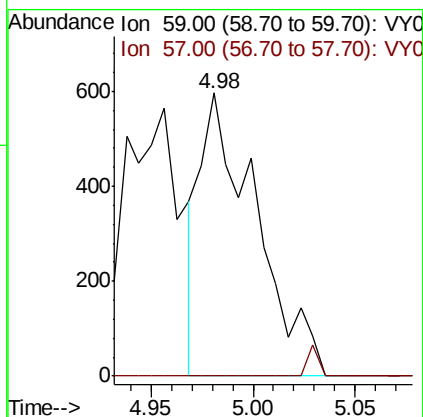
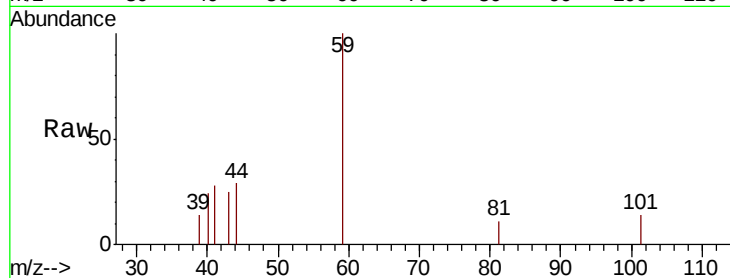


#11

Tert butyl alcohol  
 Concen: 5.063 ug/l  
 RT: 4.98 min Scan# 532  
 Delta R.T. 0.01 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

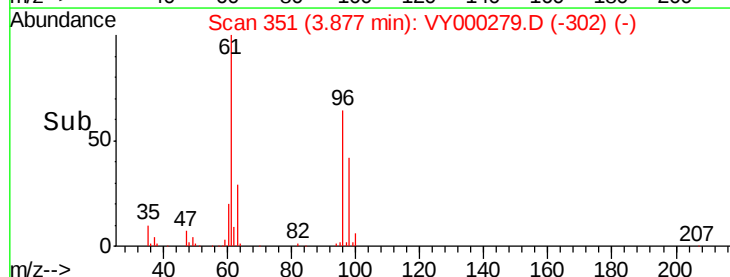
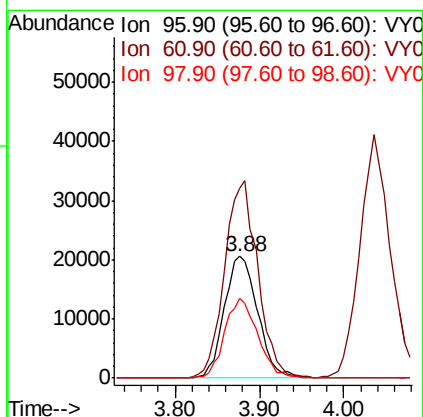
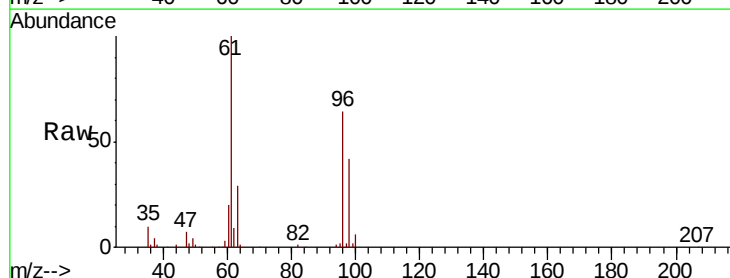
Tot Ion: 59 Resp: 1134  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.2 12.2#

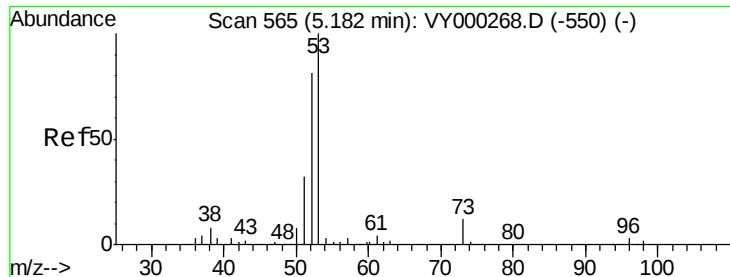


#12

1,1-Dichloroethene  
 Concen: 27.212 ug/l  
 RT: 3.88 min Scan# 351  
 Delta R.T. 0.00 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

Tgt Ion: 96 Resp: 55762  
 Ion Ratio Lower Upper  
 96 100  
 61 155.9 125.8 188.6  
 98 65.6 46.2 69.2





#15

Acrylonitrile

Concen: 2.041 ug/l

RT: 5.23 min Scan# 573

Delta R.T. 0.05 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

Instrument :

MSVOA\_Y

ClientSampled :

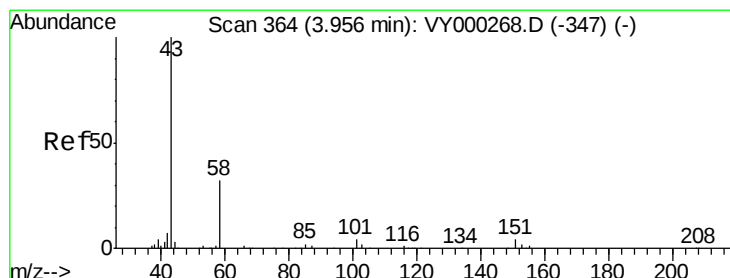
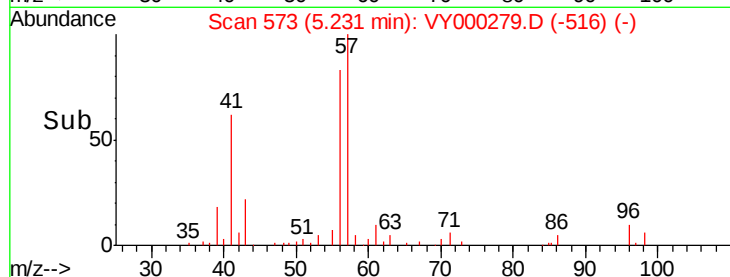
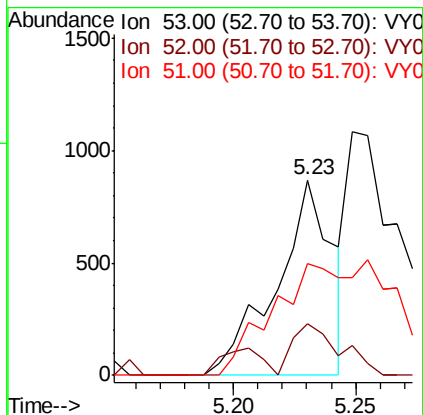
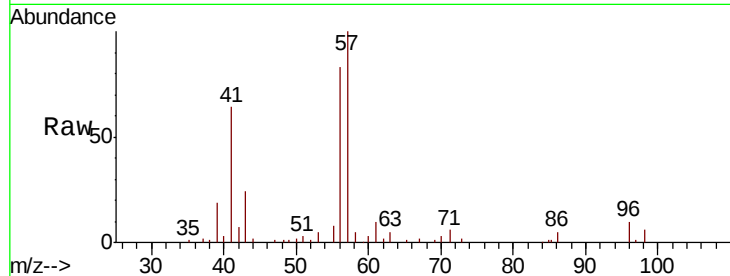
Tot Ion: 53 Resp: 1381

Ion Ratio Lower Upper

53 100

52 22.8 62.9 94.3#

51 80.0 26.9 40.3#



#16

Acetone

Concen: 130.235 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VY000279.D

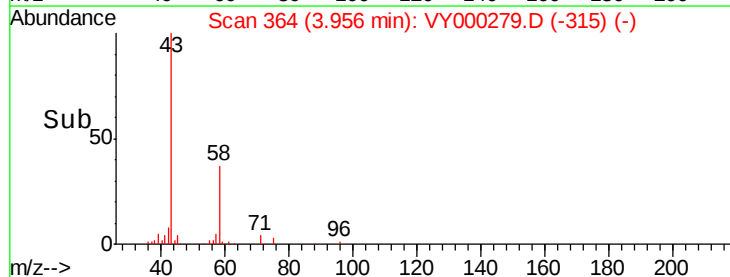
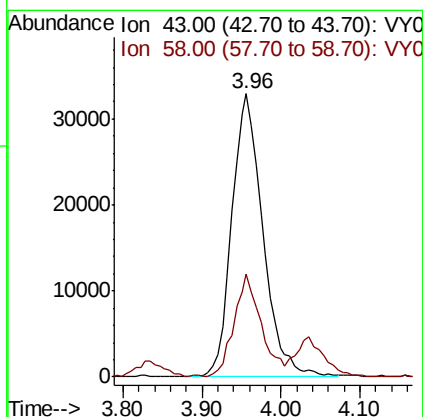
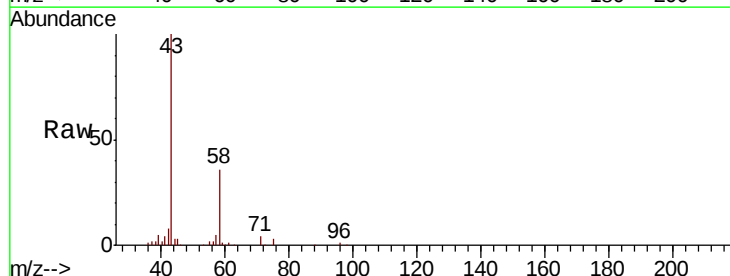
Acq: 11 Oct 2019 18:35

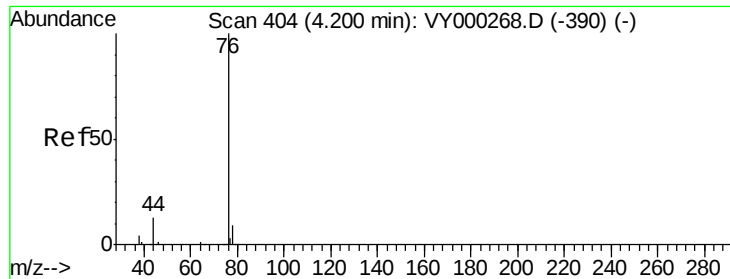
Tgt Ion: 43 Resp: 90265

Ion Ratio Lower Upper

43 100

58 36.0 25.8 38.6

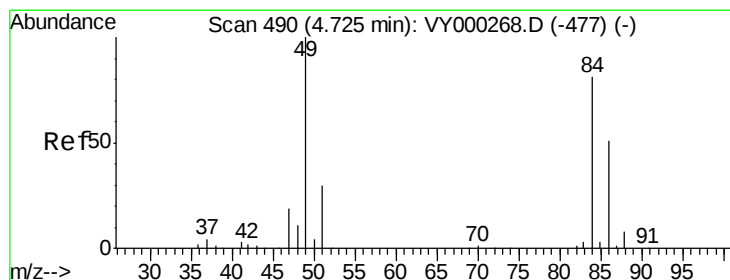
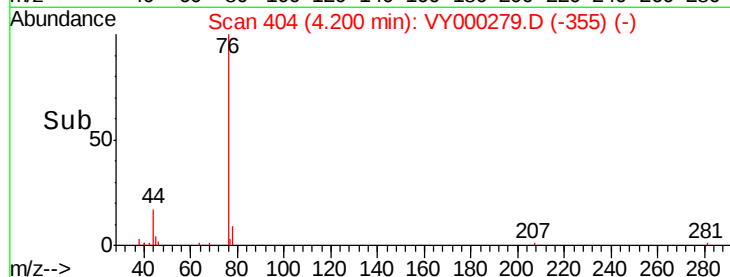
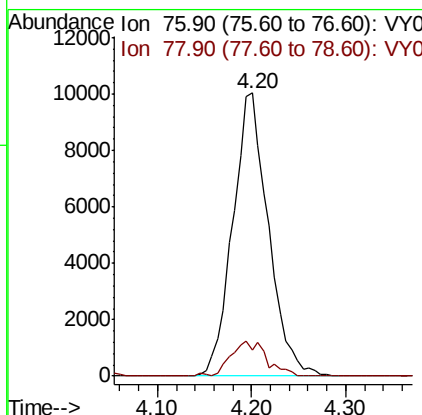
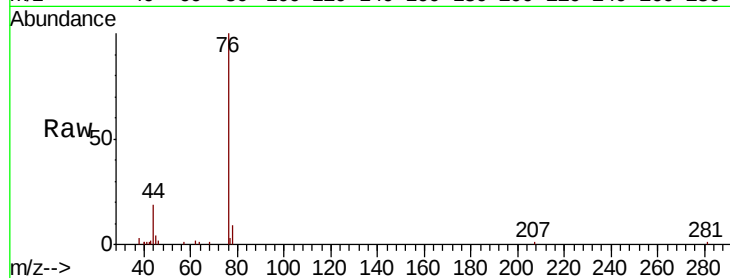




#17  
Carbon Disulfide  
Concen: 4.089 ug/l  
RT: 4.20 min Scan# 404  
Delta R.T. 0.00 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

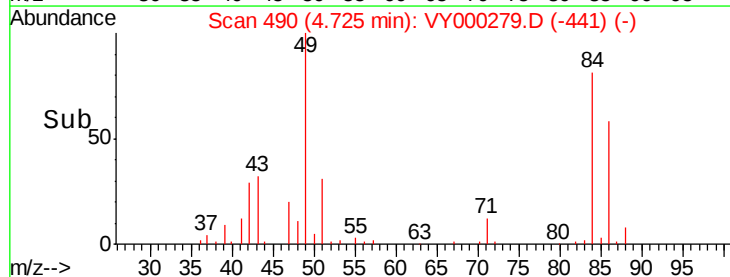
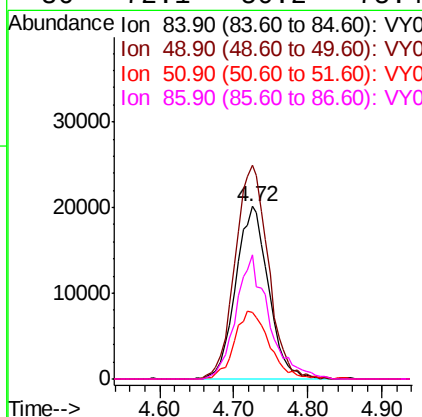
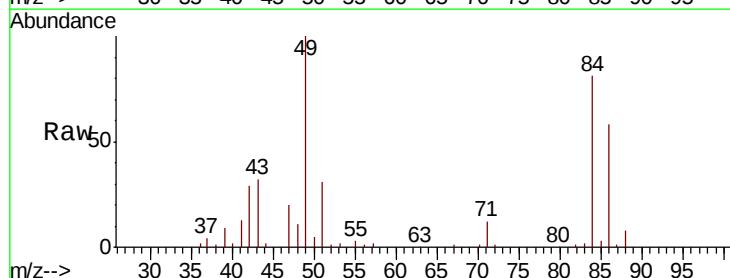
Instrument :  
MSVOA\_Y  
ClientSampled :

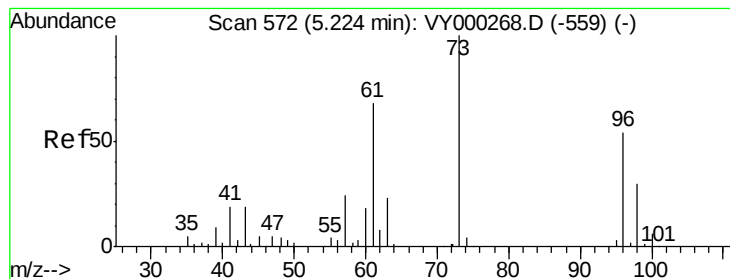
Tot Ion: 76 Resp: 26380  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.0 10.4



#20  
Methylene Chloride  
Concen: 23.798 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Tgt Ion: 84 Resp: 62227  
Ion Ratio Lower Upper  
84 100  
49 123.7 99.0 148.4  
51 38.9 29.3 43.9  
86 72.1 50.2 75.4





#21

trans-1,2-Dichloroethene

Concen: 1.919 ug/l

RT: 5.23 min Scan# 573

Delta R.T. 0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

Instrument :

MSVOA\_Y

ClientSampled :

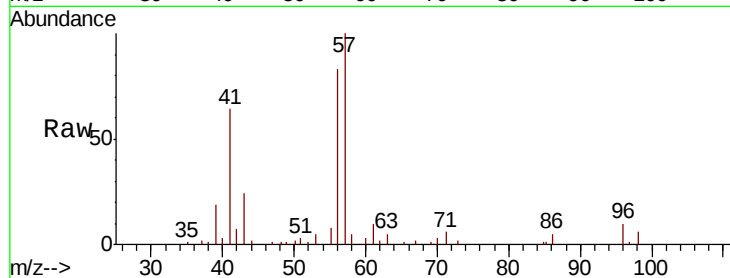
Tot Ion: 96 Resp: 4511

Ion Ratio Lower Upper

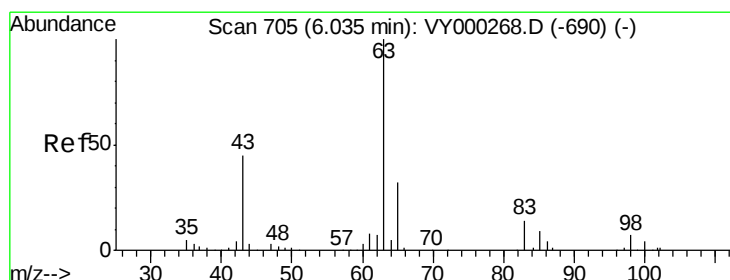
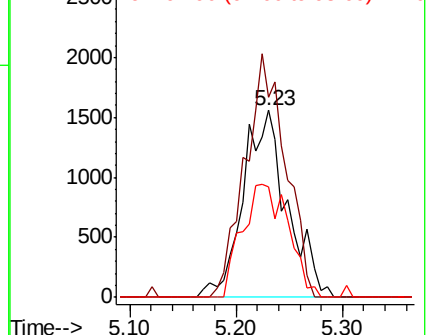
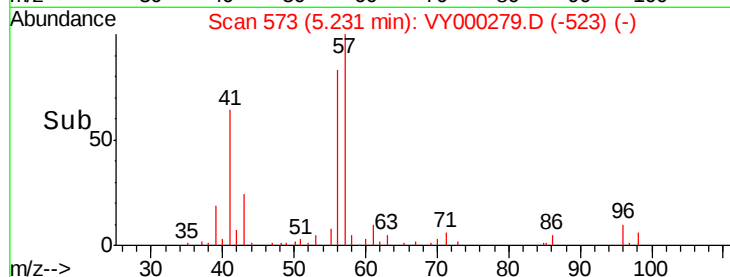
96 100

61 106.8 100.4 150.6

98 59.3 44.6 66.8



Abundance Ion 95.90 (95.60 to 96.60): VY0  
Ion 60.90 (60.60 to 61.60): VY0  
Ion 97.90 (97.60 to 98.60): VY0



#24

1,1-Dichloroethane

Concen: 57.777 ug/l

RT: 6.03 min Scan# 704

Delta R.T. -0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

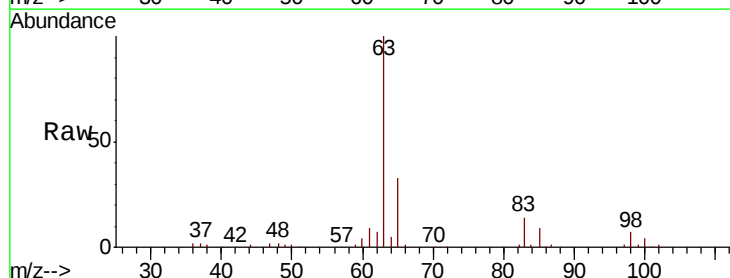
Tgt Ion: 63 Resp: 226508

Ion Ratio Lower Upper

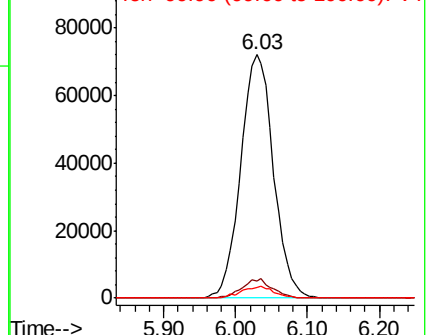
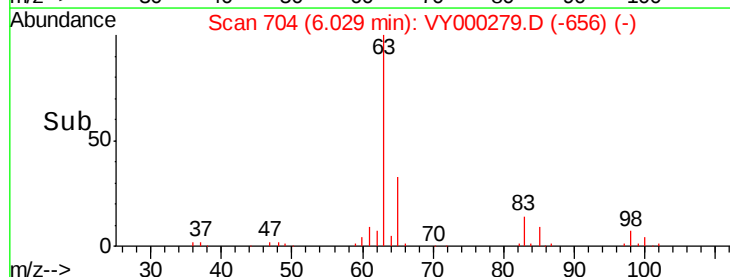
63 100

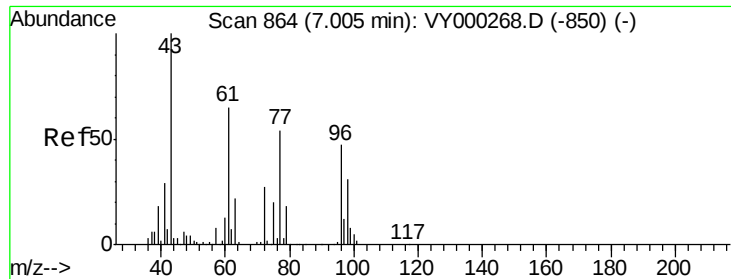
98 6.8 3.5 10.4

100 4.4 2.1 6.2



Abundance Ion 62.90 (62.60 to 63.60): VY0  
Ion 97.90 (97.60 to 98.60): VY0  
Ion 99.90 (99.60 to 100.60): VY0





#25

2-Butanone

Concen: 27.888 ug/l

RT: 7.01 min Scan# 865

Delta R.T. 0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

Instrument :

MSVOA\_Y

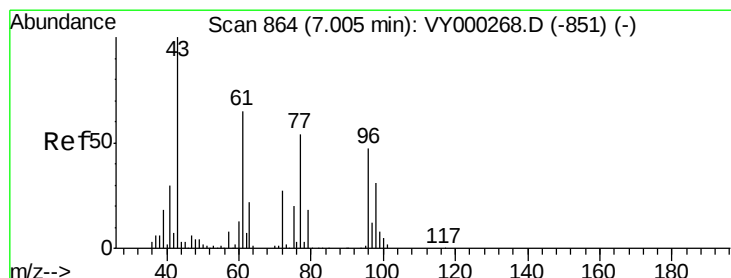
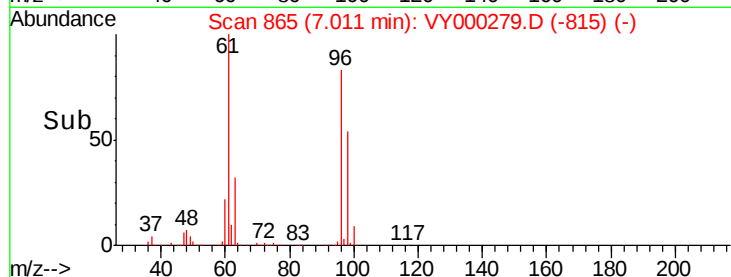
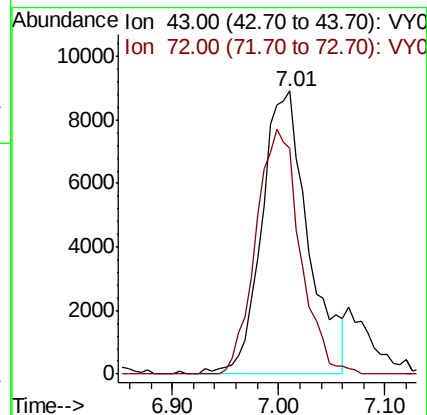
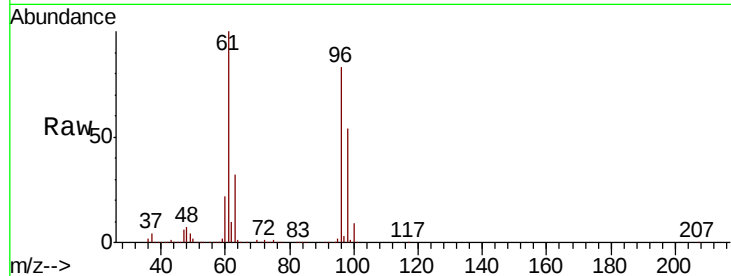
ClientSampleId :

Tot Ion: 43 Resp: 27228

Ion Ratio Lower Upper

43 100

72 79.5 21.4 32.2#



#27

cis-1,2-Dichloroethene

Concen: 687.244 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

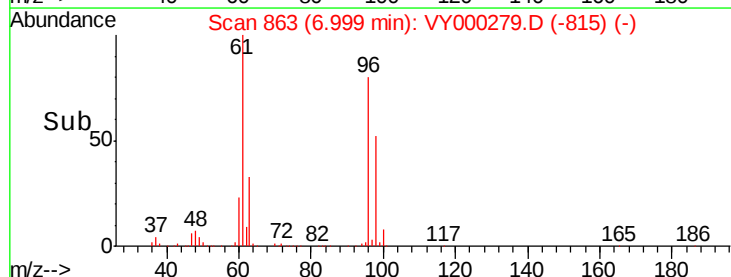
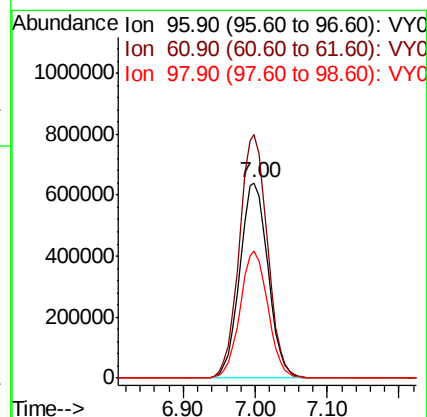
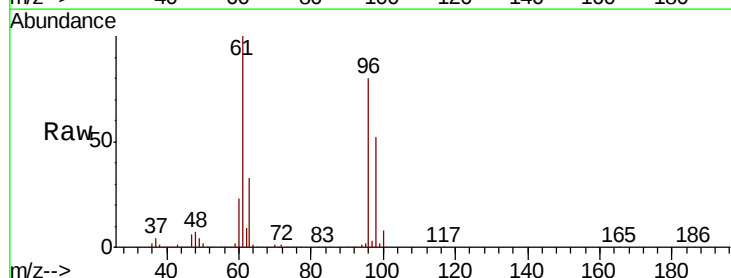
Tgt Ion: 96 Resp: 1748340

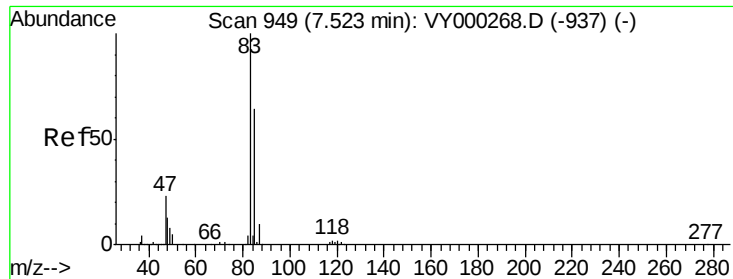
Ion Ratio Lower Upper

96 100

61 123.8 0.0 289.8

98 64.1 0.0 131.8

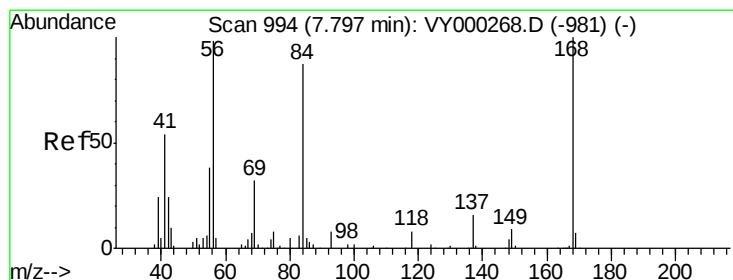
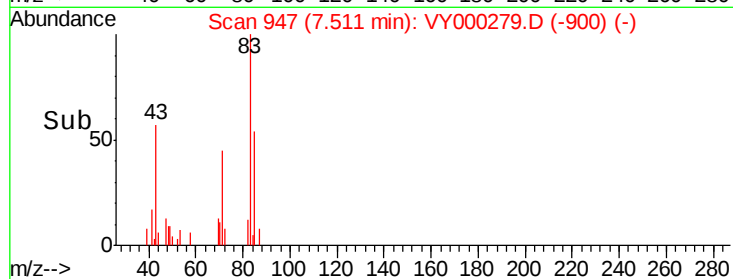
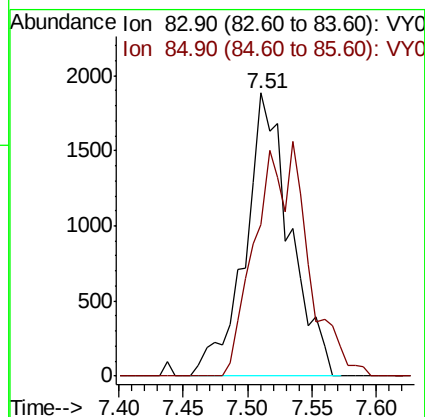
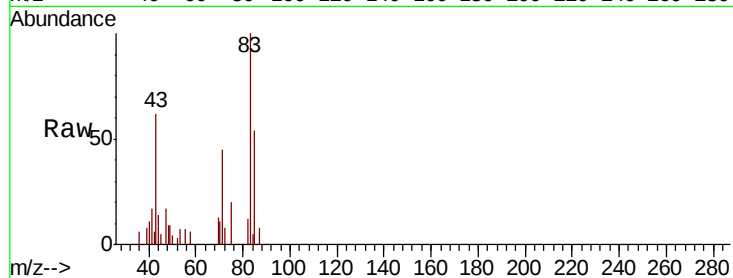




#30  
Chloroform  
Concen: 1.149 ug/l  
RT: 7.51 min Scan# 947  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

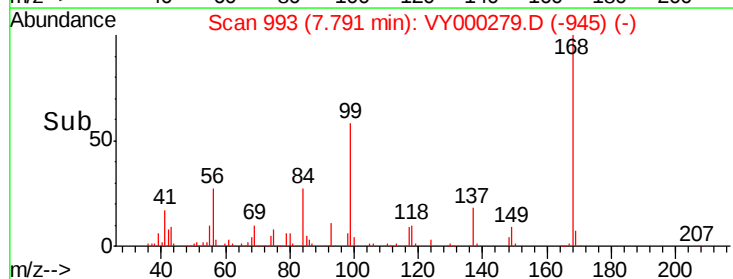
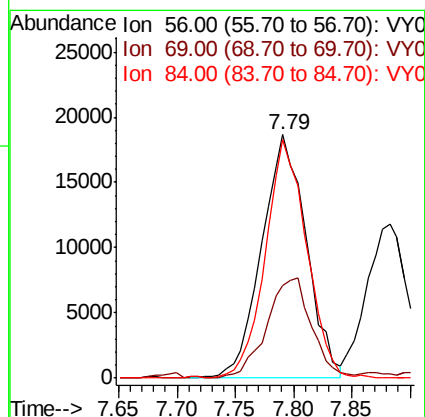
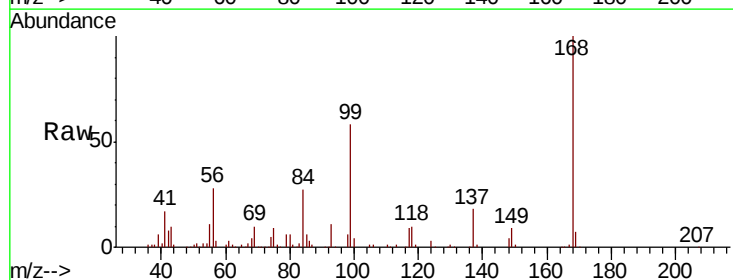
Instrument :  
MSVOA\_Y  
ClientSampleId :

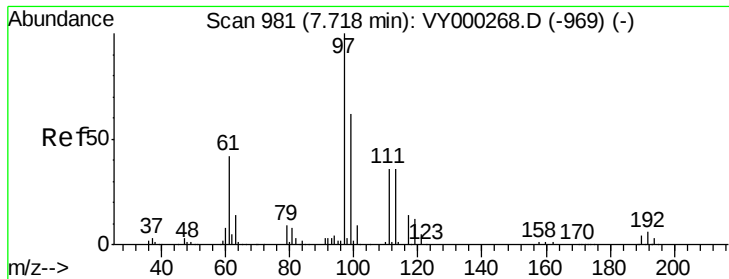
Tot Ion: 83 Resp: 4538  
Ion Ratio Lower Upper  
83 100  
85 53.6 51.4 77.2



#31  
Cyclohexane  
Concen: 12.065 ug/l  
RT: 7.79 min Scan# 993  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Tgt Ion: 56 Resp: 49401  
Ion Ratio Lower Upper  
56 100  
69 37.5 26.3 39.5  
84 97.4 70.8 106.2





#32

1,1,1-Trichloroethane

Concen: 2.874 ug/l

RT: 7.71 min Scan# 979

Delta R.T. -0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

Instrument :

MSVOA\_Y

ClientSampled :

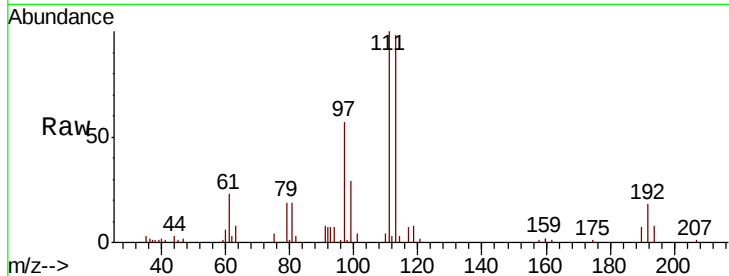
Tot Ion: 97 Resp: 10089

Ion Ratio Lower Upper

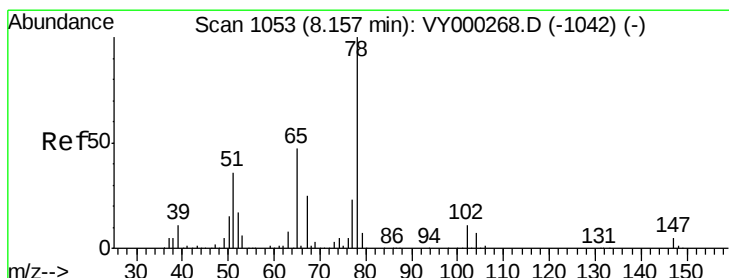
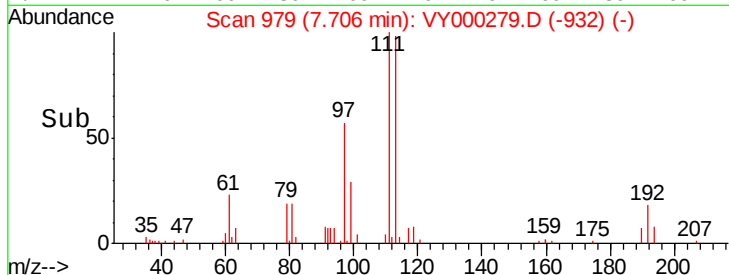
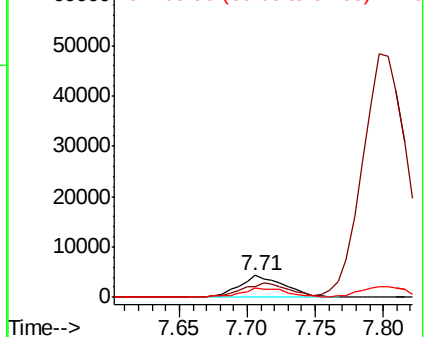
97 100

99 68.3 51.7 77.5

61 44.0 34.5 51.7



Abundance Ion 96.90 (96.60 to 97.60): VY0  
Ion 98.90 (98.60 to 99.60): VY0  
Ion 60.90 (60.60 to 61.60): VY0



#33

1,2-Dichloroethane-d4

Concen: 57.445 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY000279.D

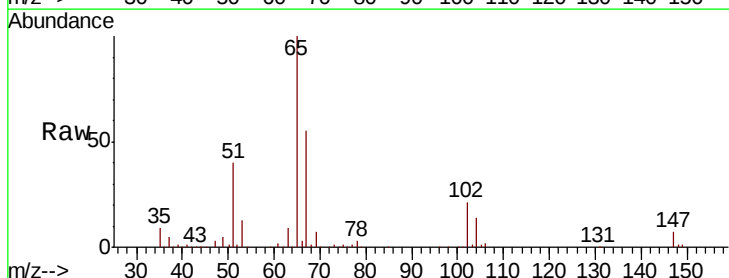
Acq: 11 Oct 2019 18:35

Tgt Ion: 65 Resp: 122945

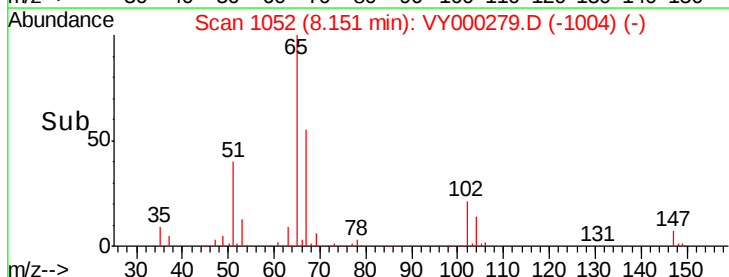
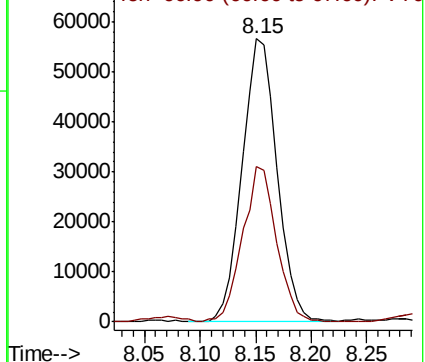
Ion Ratio Lower Upper

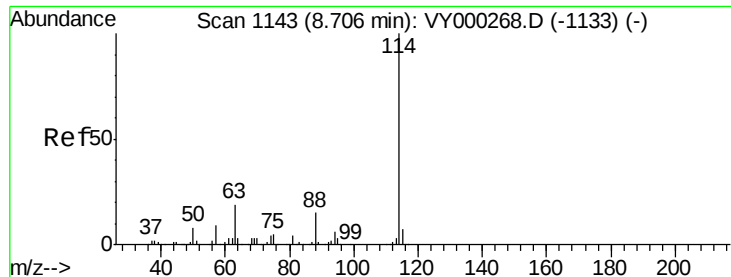
65 100

67 53.5 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VY0  
Ion 66.90 (66.60 to 67.60): VY0

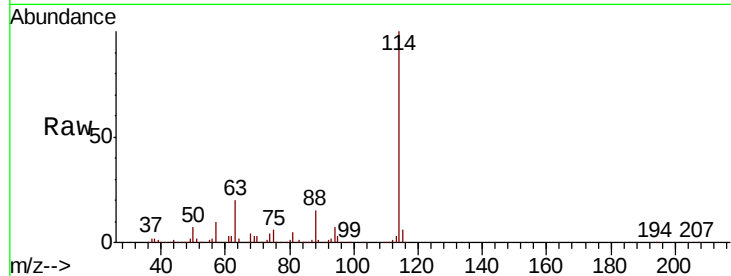




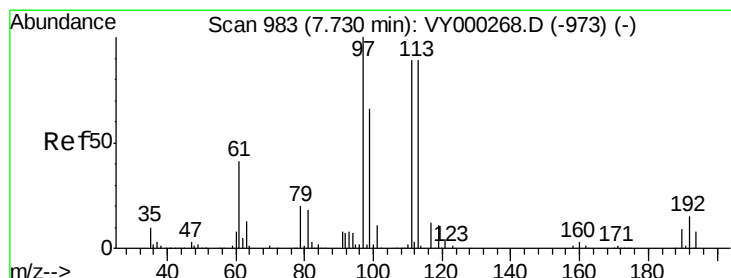
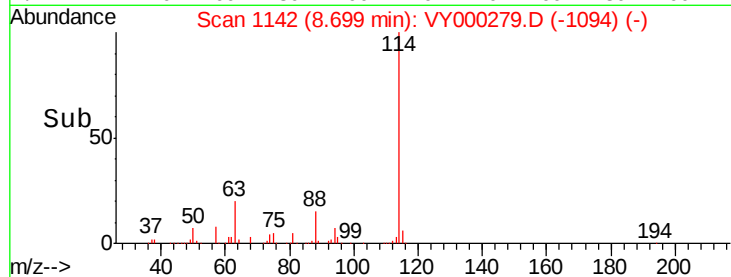
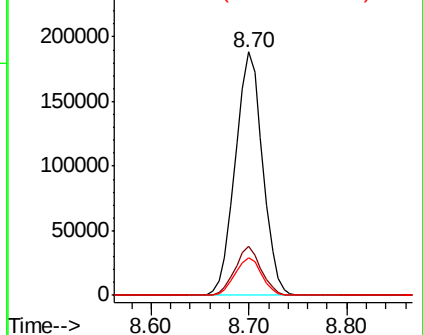
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.01 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.0  | 0.0   | 37.2  |
| 88      | 15.2  | 0.0   | 30.2  |

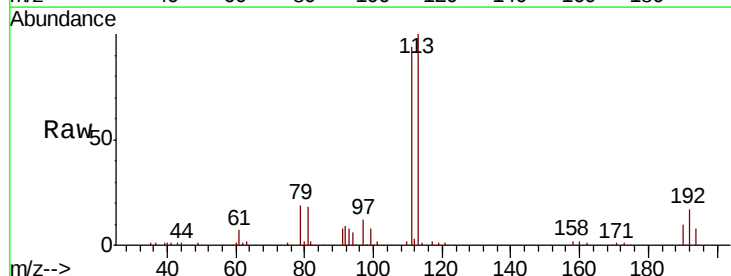


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

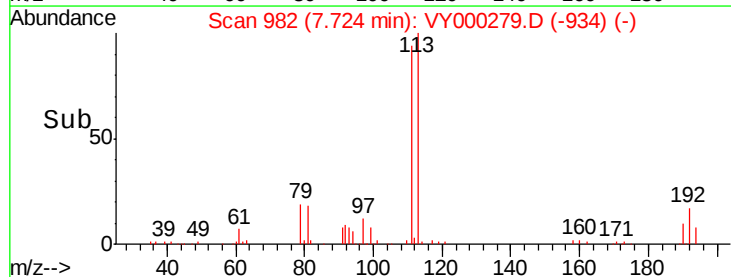
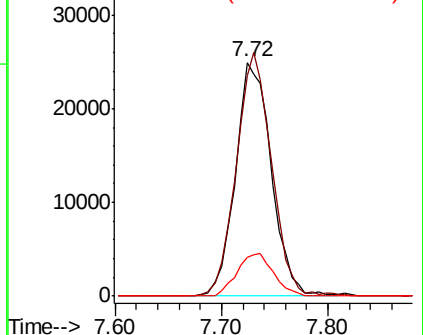


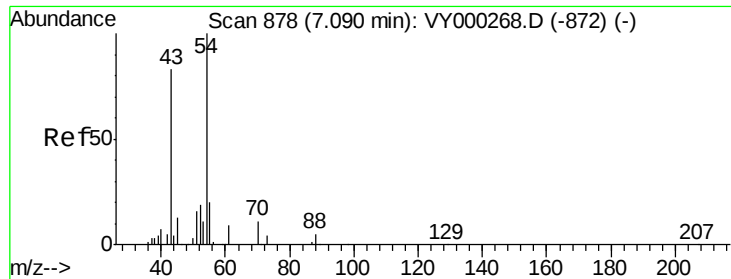
#35  
 Dibromofluoromethane  
 Concen: 26.761 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. -0.01 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.7 | 81.6  | 122.4 |
| 192     | 18.6  | 15.3  | 22.9  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

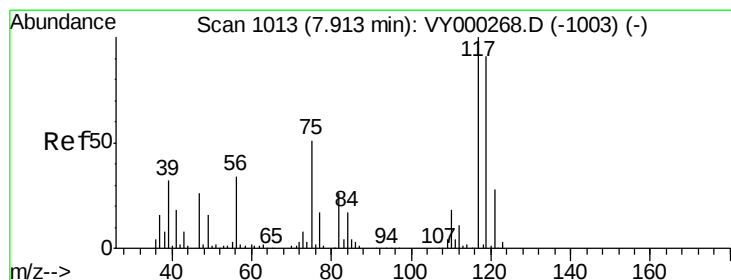
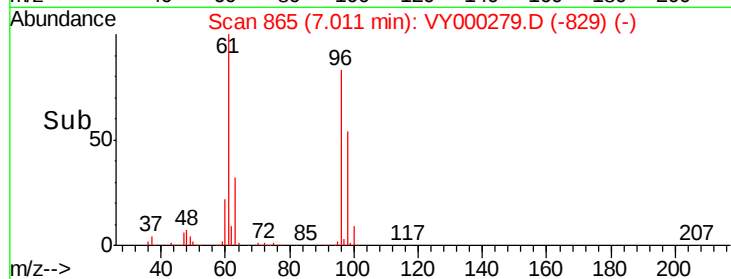
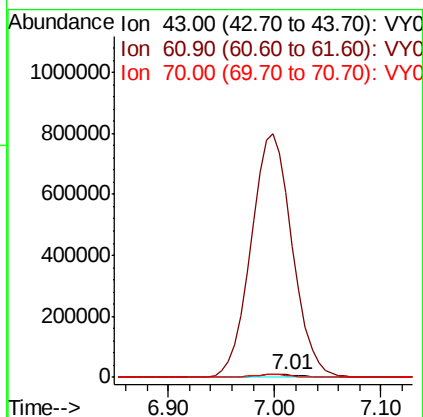
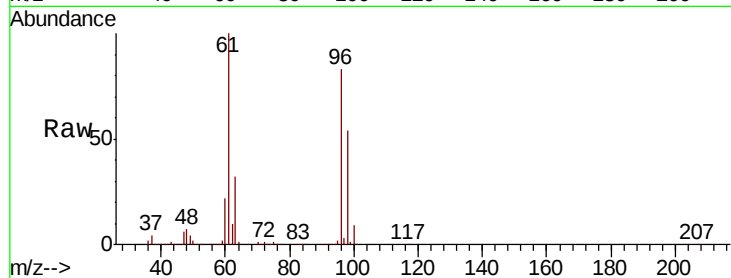




#37  
Ethyl Acetate  
Concen: 12.848 ug/l  
RT: 7.01 min Scan# 865  
Delta R.T. -0.08 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

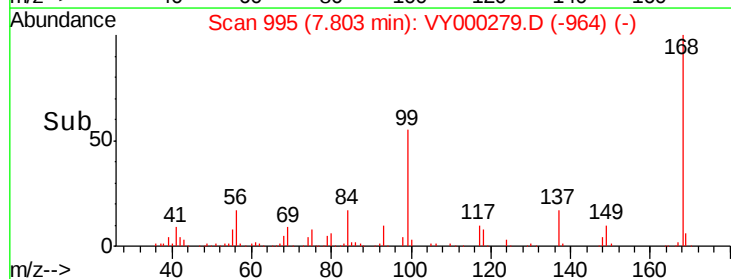
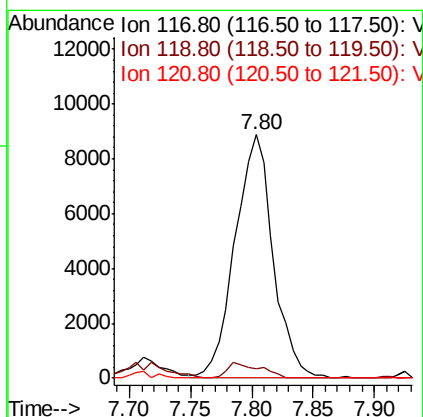
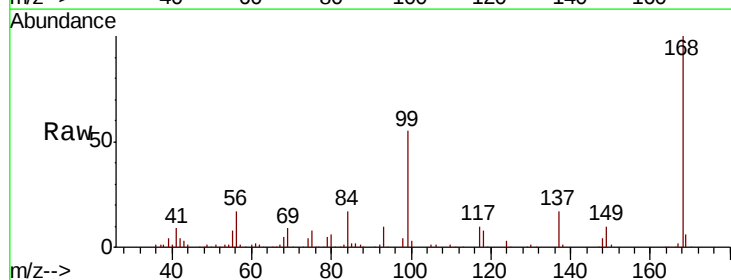
Instrument :  
MSVOA\_Y  
ClientSampled :

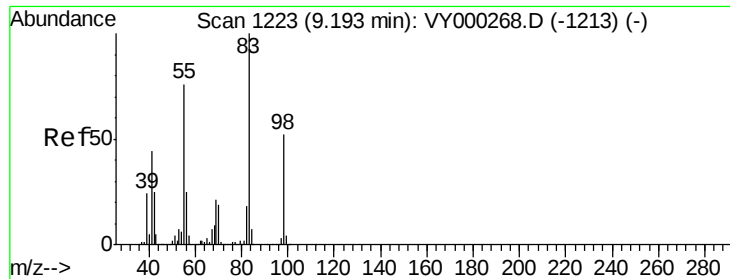
Tot Ion: 43 Resp: 27228  
Ion Ratio Lower Upper  
43 100  
61 7949.9 12.1 18.1#  
70 93.8 8.7 13.1#



#38  
Carbon Tetrachloride  
Concen: 5.532 ug/l  
RT: 7.80 min Scan# 995  
Delta R.T. -0.11 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Tgt Ion: 117 Resp: 19169  
Ion Ratio Lower Upper  
117 100  
119 3.8 72.8 109.2#  
121 0.0 22.2 33.2#

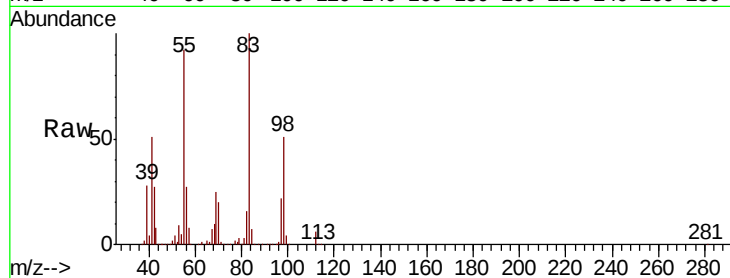




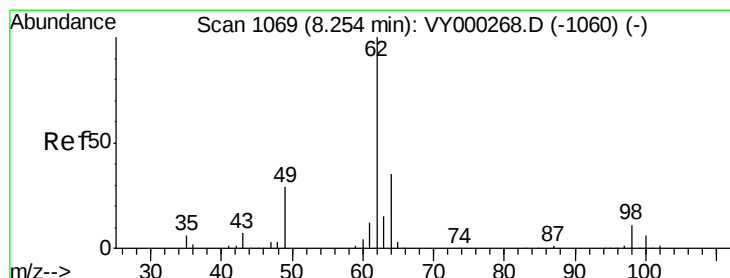
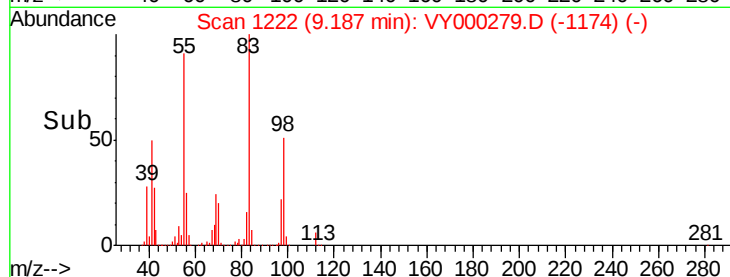
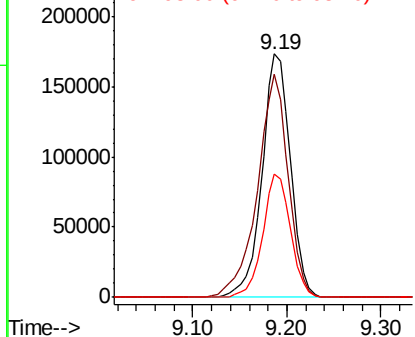
#39  
Methvlcvclohexane  
Concen: 78.323 ug/l  
RT: 9.19 min Scan# 1222  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Instrument :  
MSVOA\_Y  
ClientSampleId :

| Tot Ion | 83    | Resp  | 366883 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 83      | 100   |       |        |
| 55      | 91.6  | 60.9  | 91.3#  |
| 98      | 50.9  | 41.8  | 62.6   |

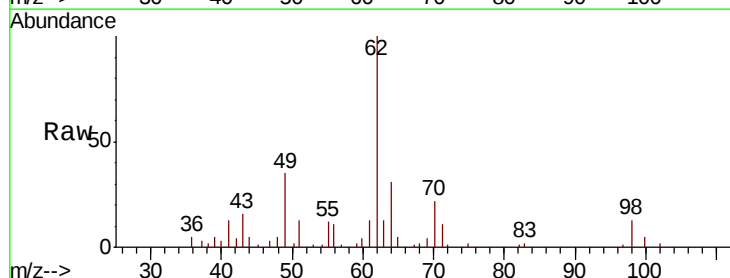


Abundance Ion 83.00 (82.70 to 83.70): VY0  
Ion 55.00 (54.70 to 55.70): VY0  
Ion 98.00 (97.70 to 98.70): VY0

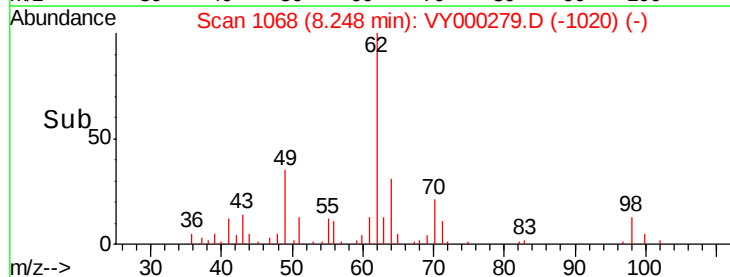
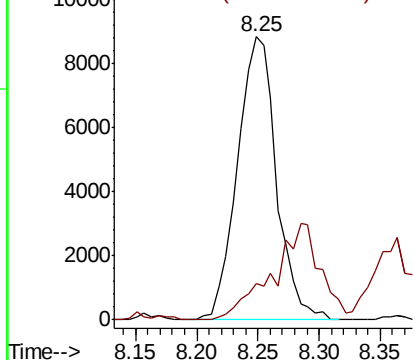


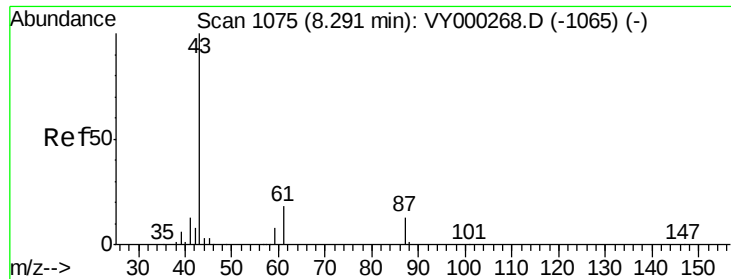
#42  
1,2-Dichloroethane  
Concen: 6.603 ug/l  
RT: 8.25 min Scan# 1068  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

| Tgt Ion | 62    | Resp  | 19508 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 62      | 100   |       |       |
| 98      | 0.0   | 0.0   | 20.6  |



Abundance Ion 61.90 (61.60 to 62.60): VY0  
Ion 97.90 (97.60 to 98.60): VY0





#43

Isopropyl Acetate

Concen: 4.132 ug/l

RT: 8.28 min Scan# 1073

Delta R.T. -0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

Instrument :

MSVOA\_Y

ClientSampled :

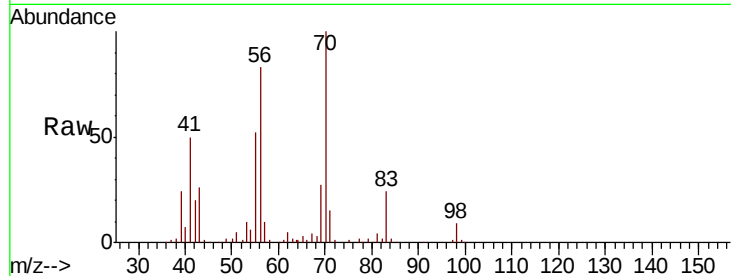
Tot Ion: 43 Resp: 16649

Ion Ratio Lower Upper

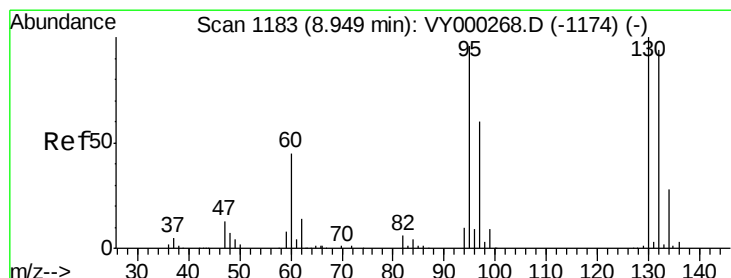
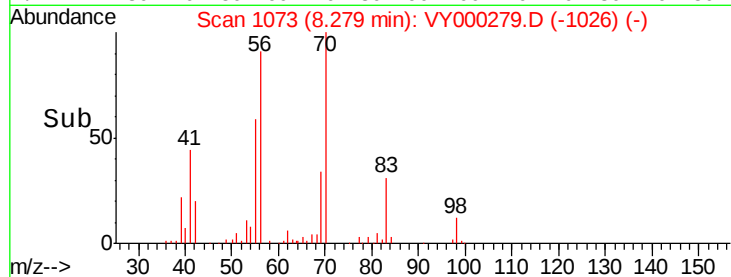
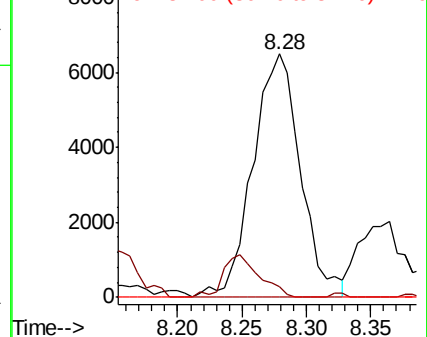
43 100

61 0.0 22.3 33.5#

87 0.0 10.9 16.3#



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



#44

Trichloroethene

Concen: 1.955 ug/l

RT: 8.95 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VY000279.D

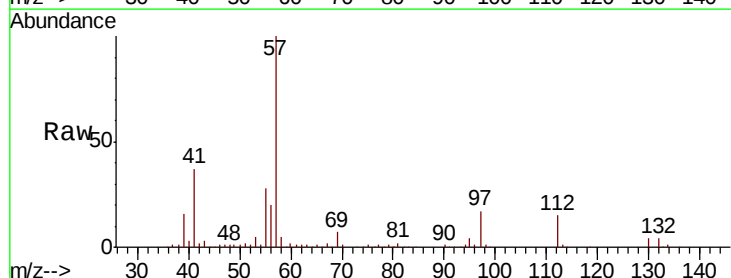
Acq: 11 Oct 2019 18:35

Tgt Ion:130 Resp: 5673

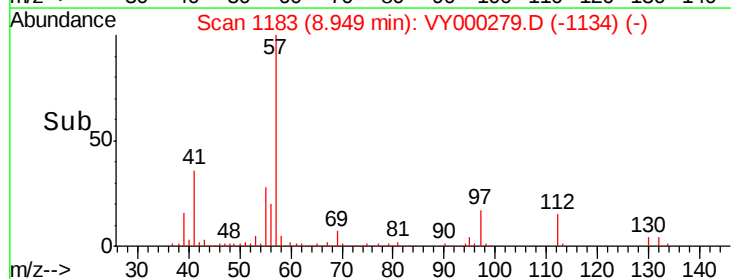
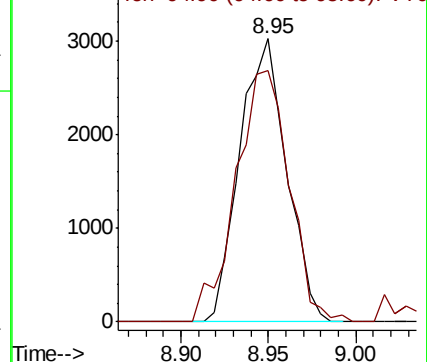
Ion Ratio Lower Upper

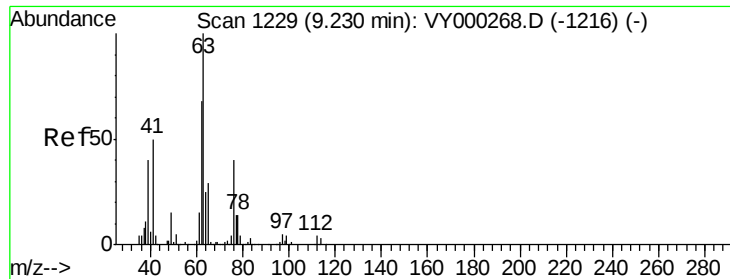
130 100

95 88.6 0.0 191.4



Abundance Ion 129.80 (129.50 to 130.50): V  
Ion 94.90 (94.60 to 95.60): VY0

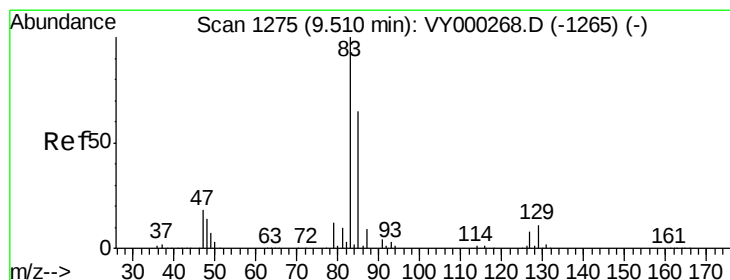
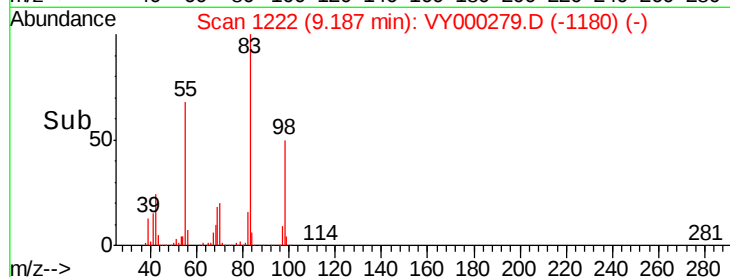
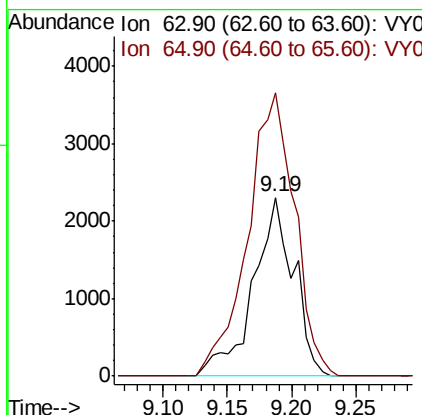
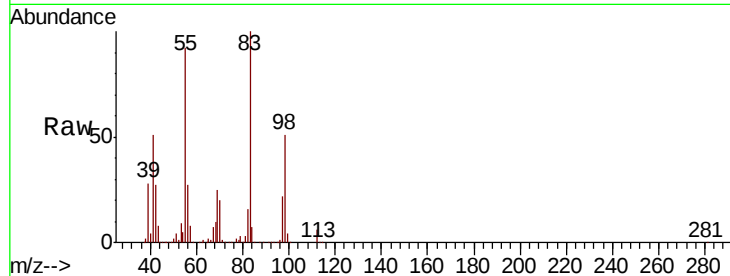




#45  
 1,2-Dichloropropane  
 Concen: 1.984 ug/l  
 RT: 9.19 min Scan# 1222  
 Delta R.T. -0.04 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

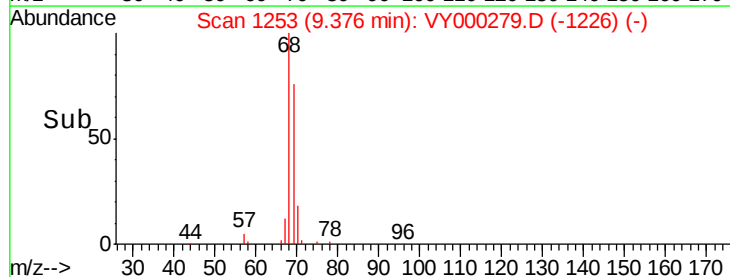
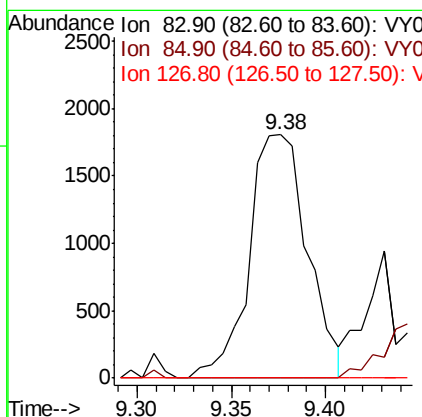
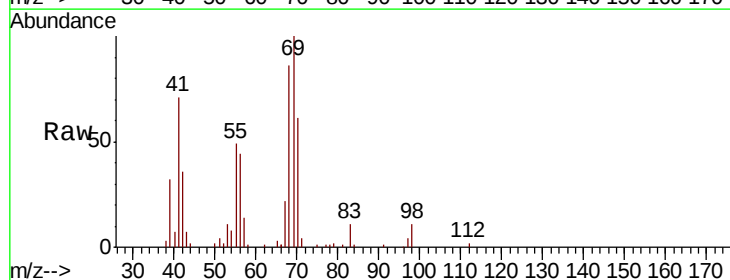
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

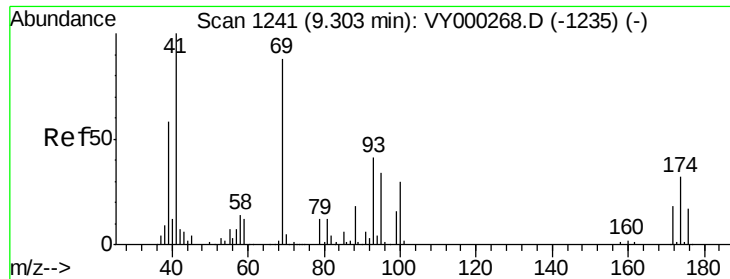
Tot Ion: 63 Resp: 5035  
 Ion Ratio Lower Upper  
 63 100  
 65 158.5 23.2 34.8#



#47  
 Bromodichloromethane  
 Concen: 1.161 ug/l  
 RT: 9.38 min Scan# 1253  
 Delta R.T. -0.13 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

Tgt Ion: 83 Resp: 3881  
 Ion Ratio Lower Upper  
 83 100  
 85 0.0 52.2 78.2#  
 127 0.0 6.3 9.5#

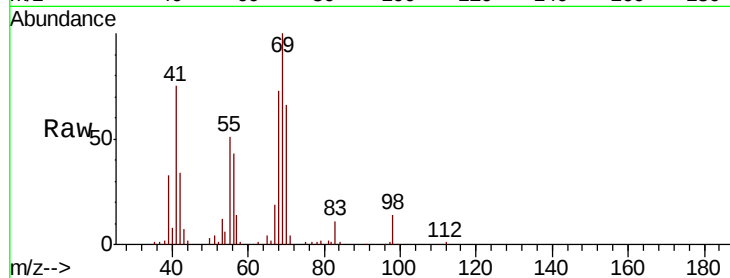




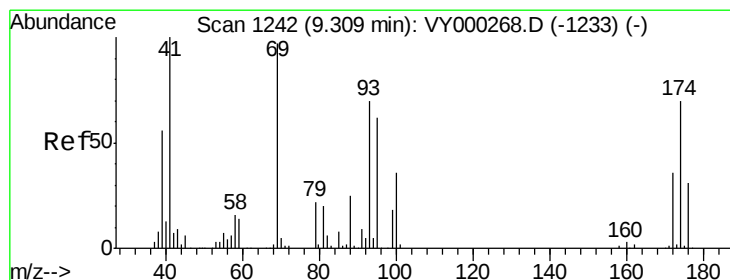
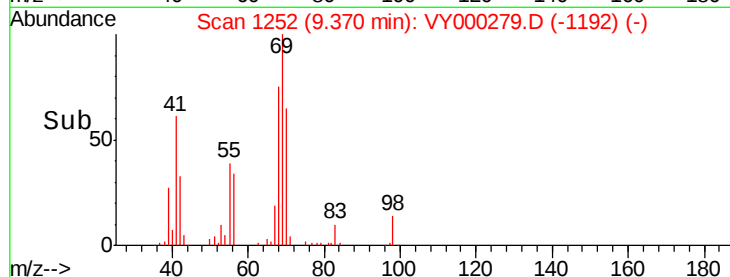
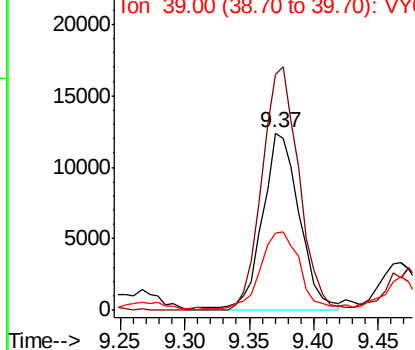
#48  
Methvl methacrylate  
Concen: 13.864 ug/l  
RT: 9.37 min Scan# 1252  
Delta R.T. 0.07 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion: 41 Resp: 24482  
Ion Ratio Lower Upper  
41 100  
69 138.2 70.0 105.0#  
39 45.7 47.7 71.5#

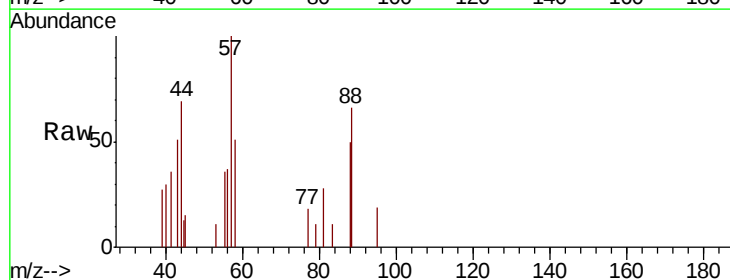


Abundance Ion 41.00 (40.70 to 41.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 39.00 (38.70 to 39.70): VY0

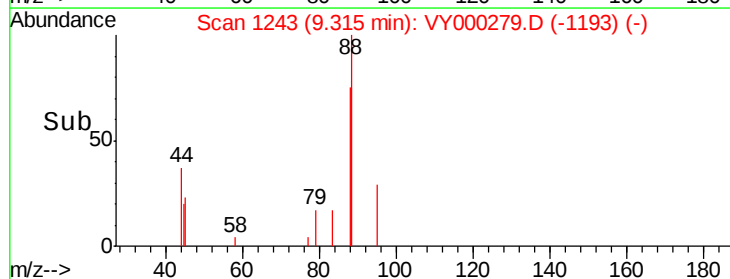
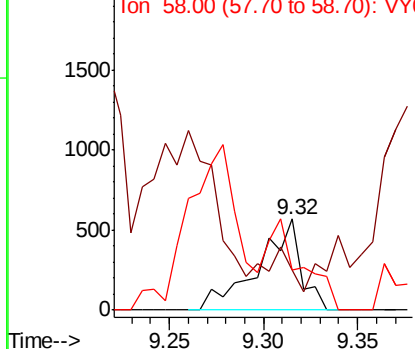


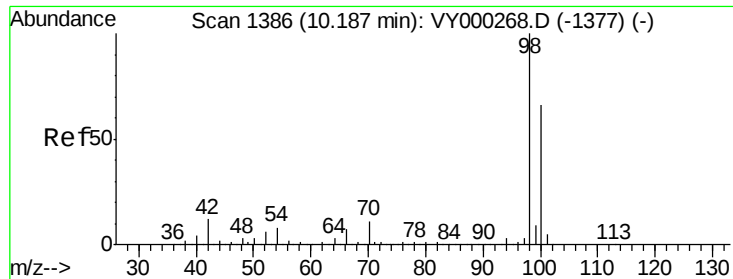
#49  
1,4-Dioxane  
Concen: 41.834 ug/l  
RT: 9.32 min Scan# 1243  
Delta R.T. 0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Tgt Ion: 88 Resp: 890  
Ion Ratio Lower Upper  
88 100  
43 0.0 25.6 38.4#  
58 80.8 54.6 81.8



Abundance Ion 88.00 (87.70 to 88.70): VY0  
Ion 43.00 (42.70 to 43.70): VY0  
Ion 58.00 (57.70 to 58.70): VY0





#50

Toluene-d8

Concen: 49.803 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. 0.00 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

Instrument :

MSVOA\_Y

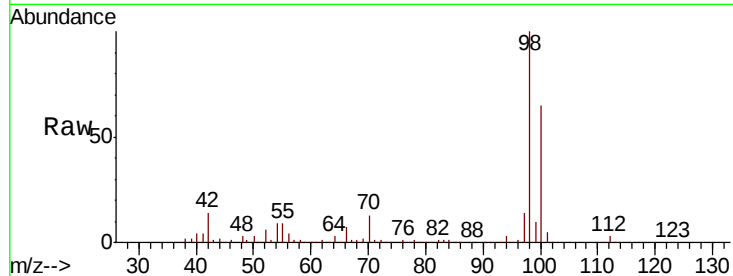
ClientSampled :

Tot Ion: 98 Resp: 422444

Ion Ratio Lower Upper

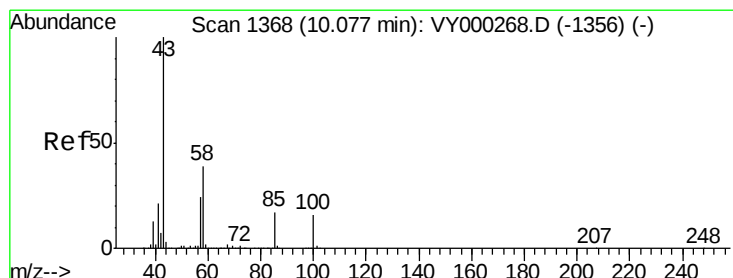
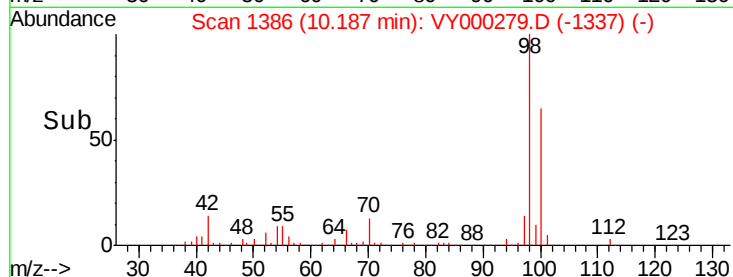
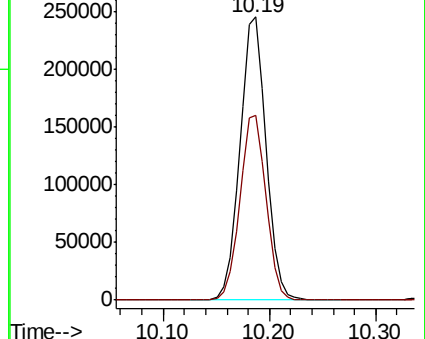
98 100

100 65.2 52.8 79.2



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: 1.824 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VY000279.D

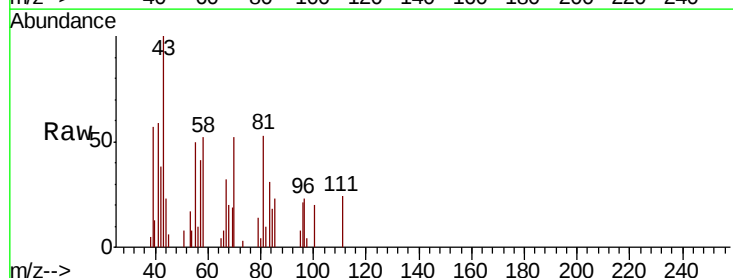
Acq: 11 Oct 2019 18:35

Tgt Ion: 43 Resp: 3790

Ion Ratio Lower Upper

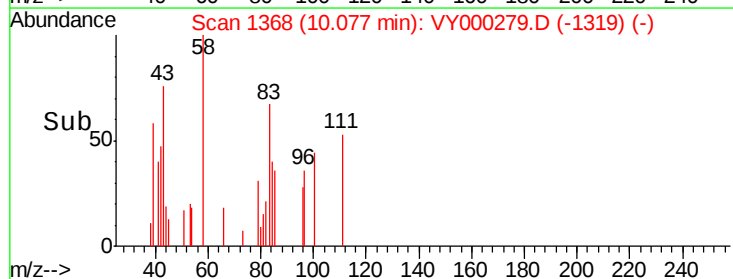
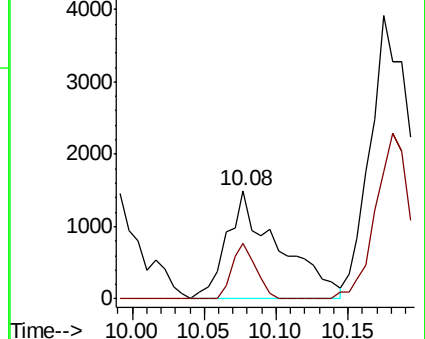
43 100

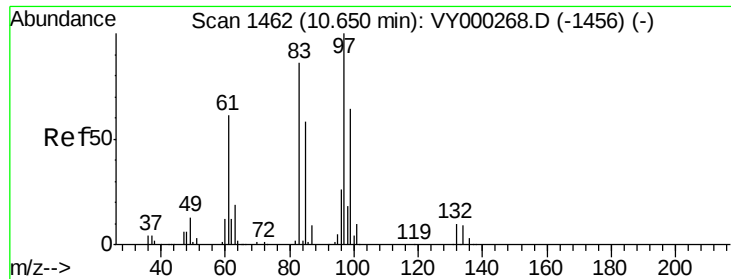
58 23.7 31.0 46.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

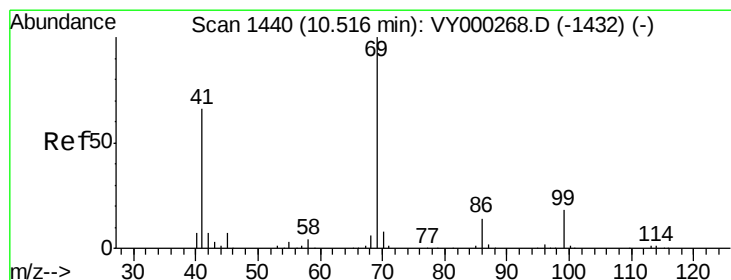
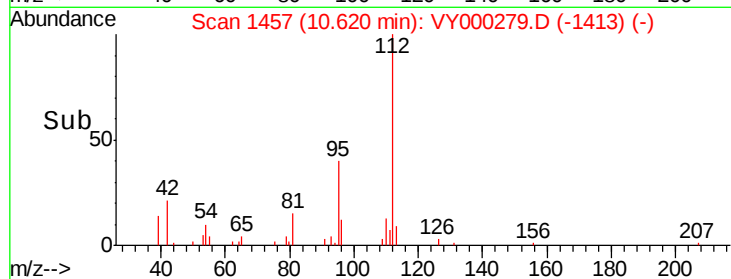
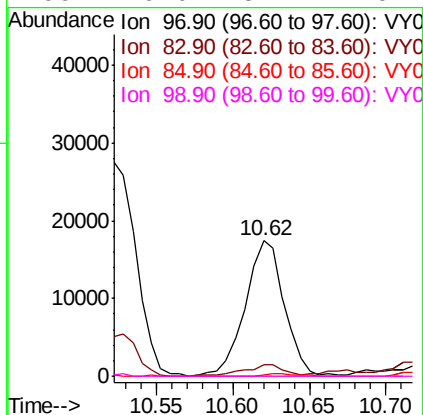
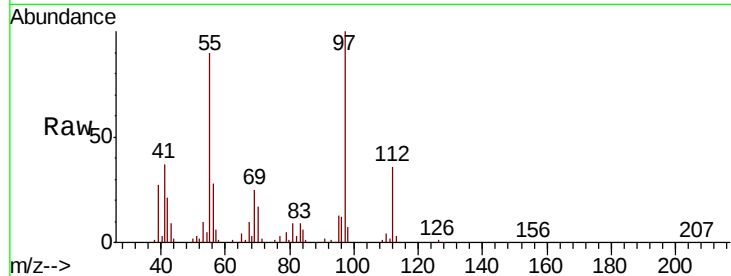




#55  
 1,1,2-Trichloroethane  
 Concen: 15.045 ug/l  
 RT: 10.62 min Scan# 1457  
 Delta R.T. -0.03 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

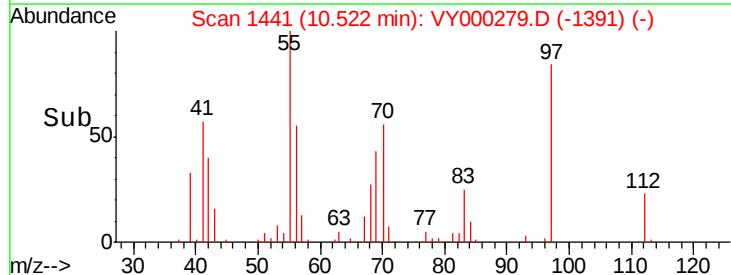
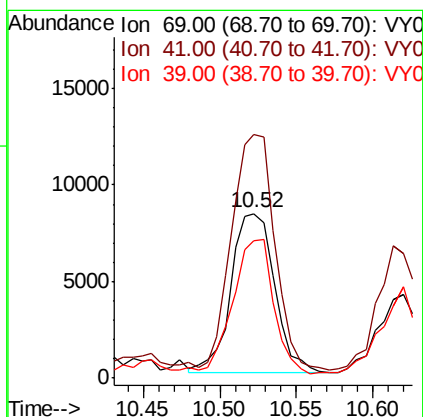
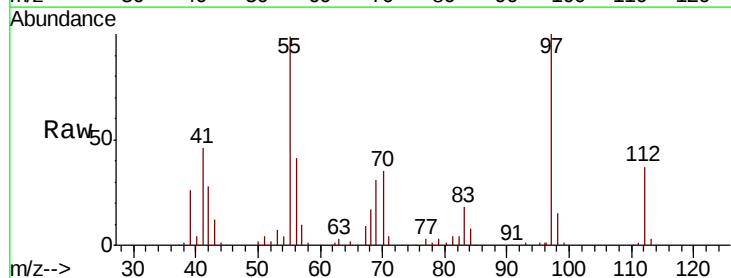
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

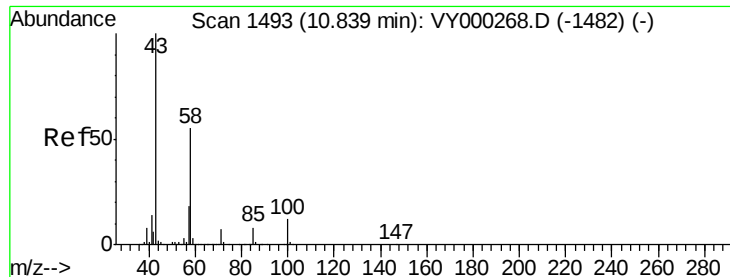
| Tot Ion | Resp  | Lower | Upper  |
|---------|-------|-------|--------|
| 97      | 31038 |       |        |
| 83      | 8.9   | 69.0  | 103.6# |
| 85      | 1.2   | 46.2  | 69.4#  |
| 99      | 0.0   | 51.1  | 76.7#  |



#56  
 Ethyl methacrylate  
 Concen: 5.501 ug/l  
 RT: 10.52 min Scan# 1441  
 Delta R.T. 0.01 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 16177 |       |       |
| 41      | 147.2 | 52.5  | 78.7# |
| 39      | 79.5  | 26.7  | 40.1# |





#59

2-Hexanone

Concen: 4.640 ug/l

RT: 10.85 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

Instrument :

MSVOA\_Y

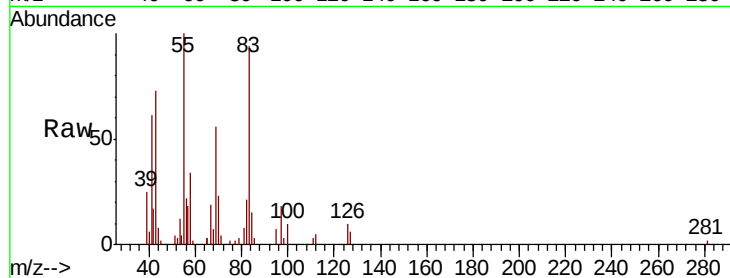
ClientSampleId :

Tot Ion: 43 Resp: 6769

Ion Ratio Lower Upper

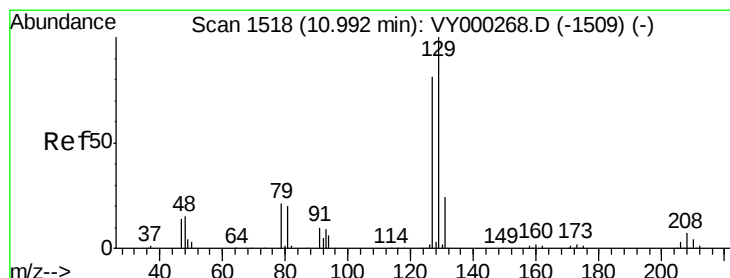
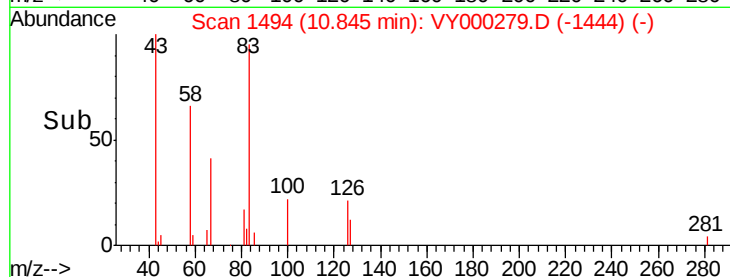
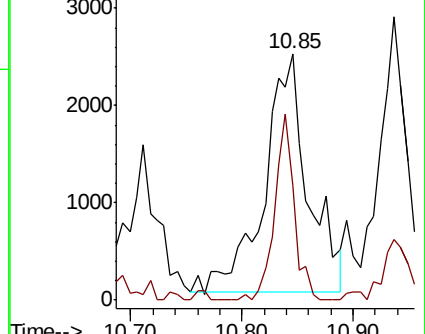
43 100

58 34.3 27.7 83.1



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#60

Dibromochloromethane

Concen: 20.649 ug/l

RT: 10.72 min Scan# 1473

Delta R.T. -0.27 min

Lab File: VY000279.D

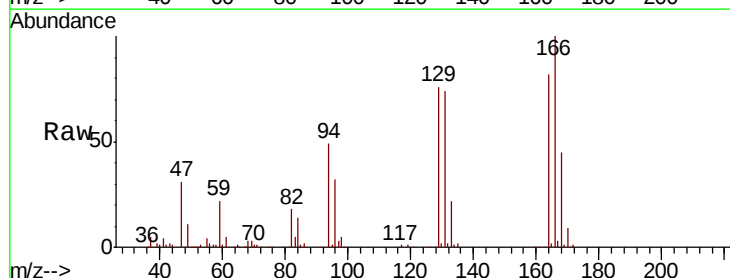
Acq: 11 Oct 2019 18:35

Tgt Ion: 129 Resp: 47216

Ion Ratio Lower Upper

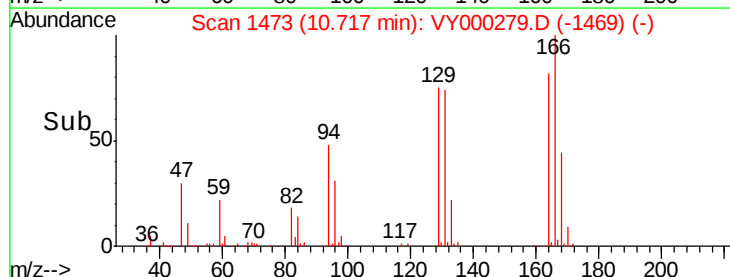
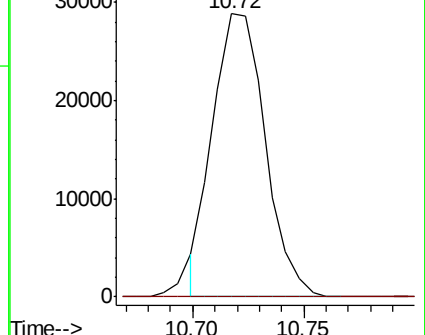
129 100

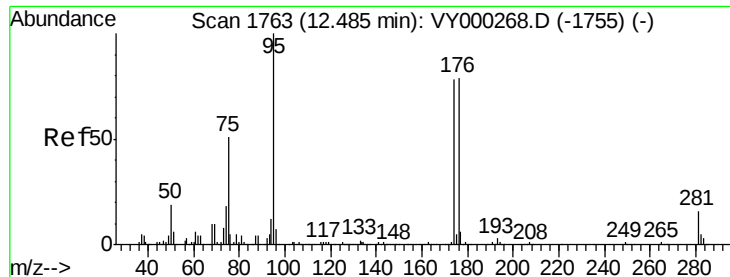
127 0.0 39.9 119.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

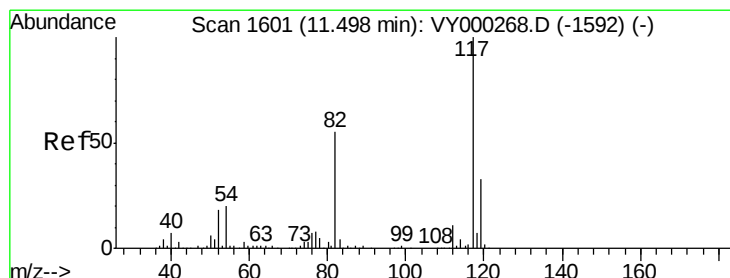
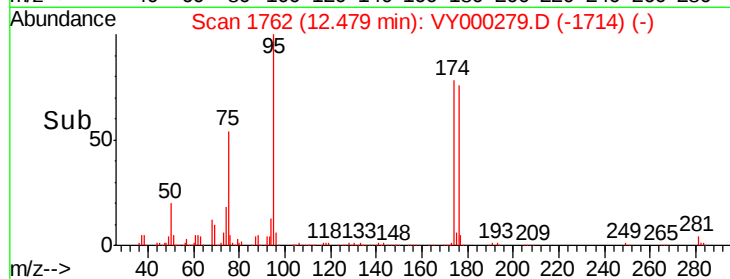
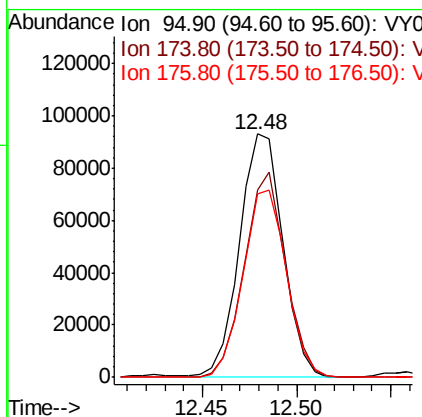
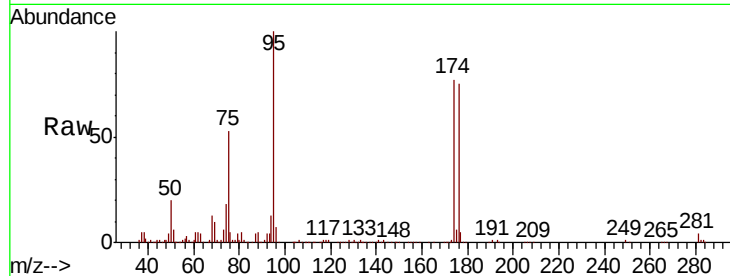




#62  
4-Bromofluorobenzene  
Concen: 45.857 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

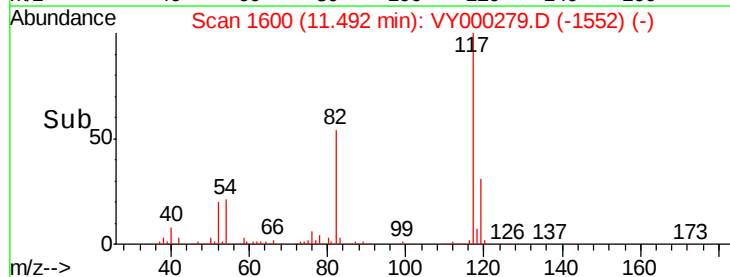
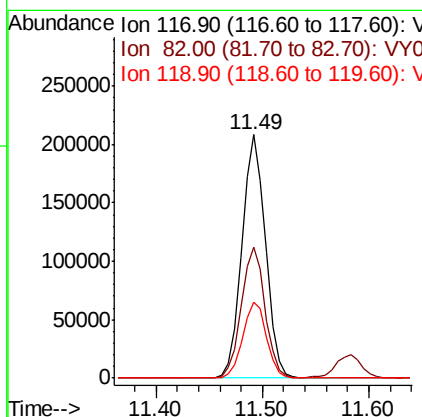
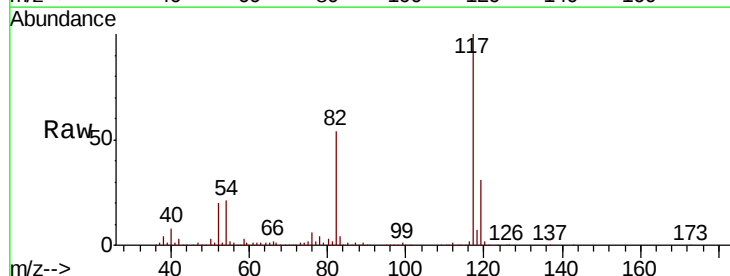
Instrument :  
MSVOA\_Y  
ClientSampleId :

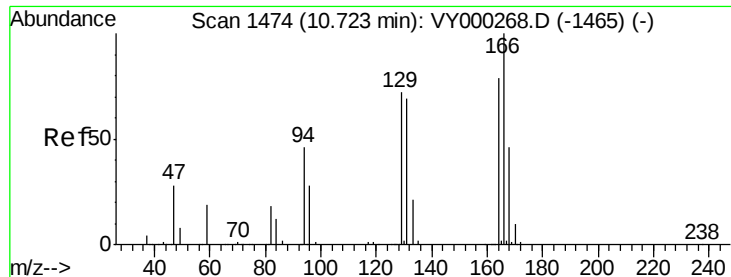
Tot Ion: 95 Resp: 147773  
Ion Ratio Lower Upper  
95 100  
174 80.5 0.0 159.6  
176 77.6 0.0 153.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Tgt Ion: 117 Resp: 323428  
Ion Ratio Lower Upper  
117 100  
82 53.7 43.7 65.5  
119 31.2 26.6 39.8

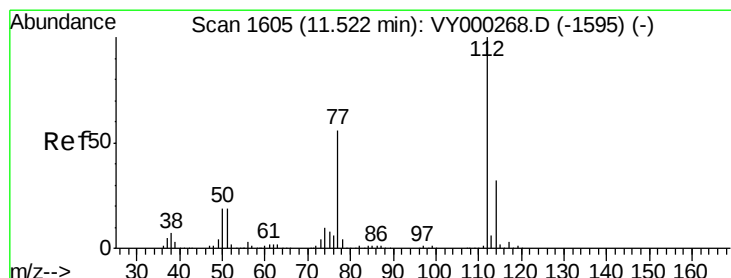
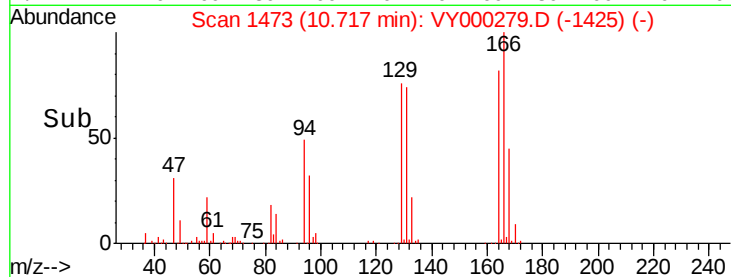
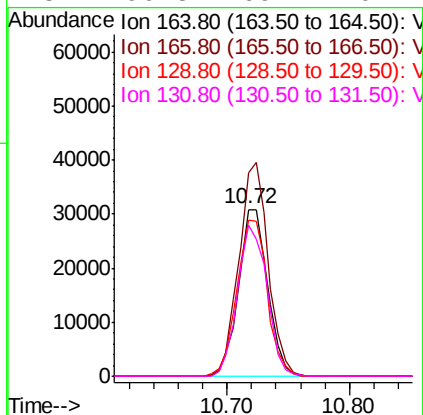
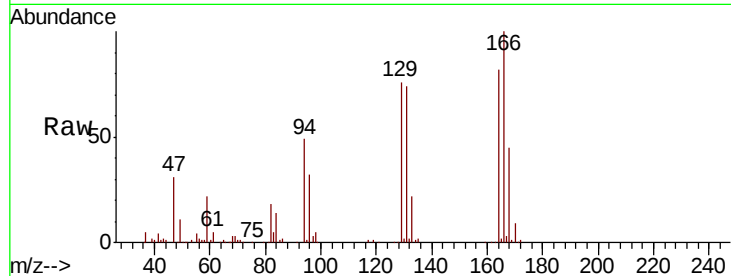




#64  
Tetrachloroethene  
Concen: 16.458 ug/l  
RT: 10.72 min Scan# 1473  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

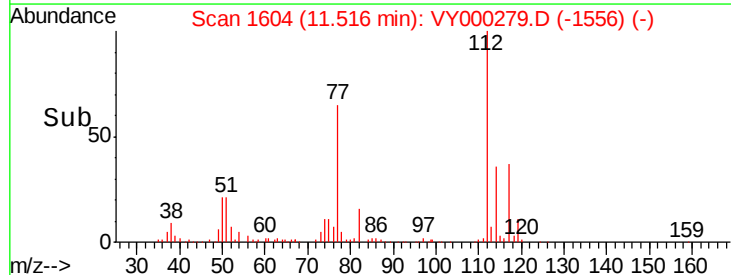
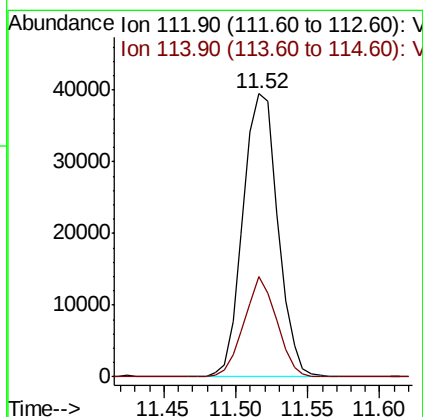
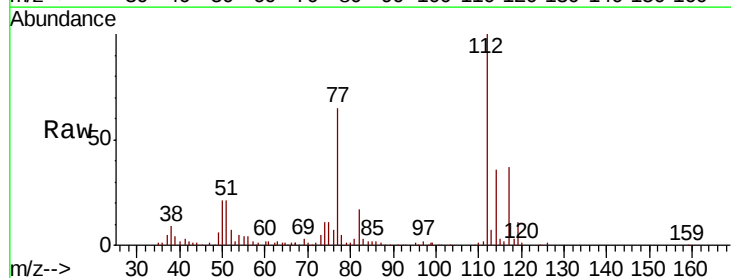
Instrument :  
MSVOA\_Y  
ClientSampleId :

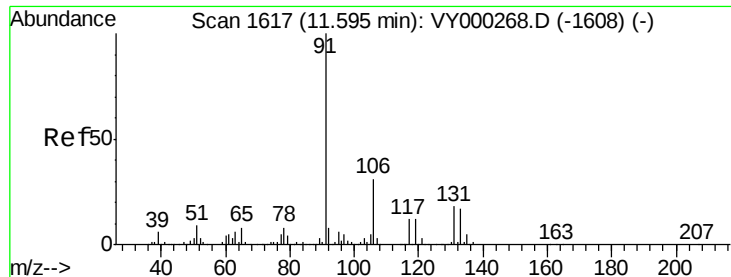
Tot Ion:164 Resp: 50674  
Ion Ratio Lower Upper  
164 100  
166 122.4 100.6 151.0  
129 93.5 72.8 109.2  
131 90.8 69.4 104.2



#65  
Chlorobenzene  
Concen: 9.740 ug/l  
RT: 11.52 min Scan# 1604  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Tgt Ion:112 Resp: 66485  
Ion Ratio Lower Upper  
112 100  
114 35.5 25.7 38.5

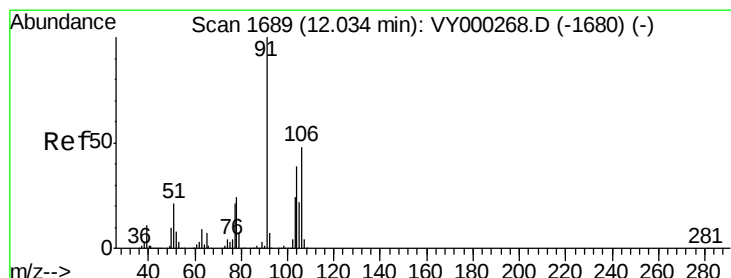
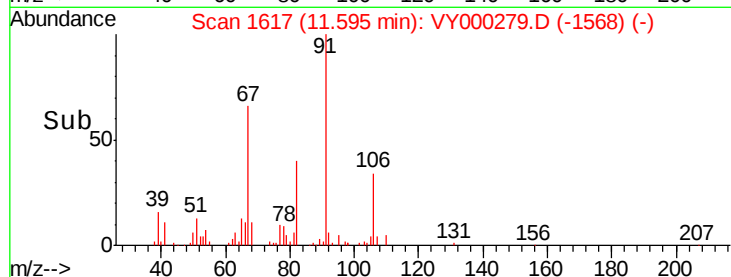
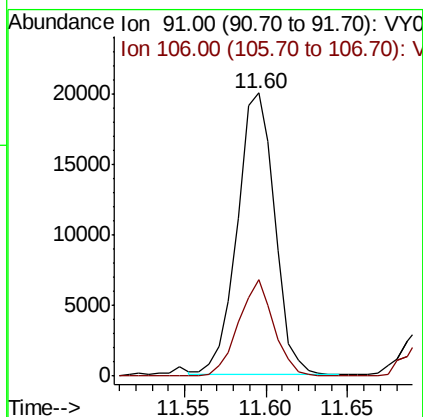
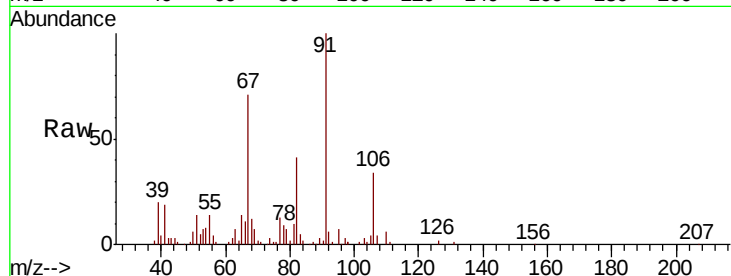




#67  
Ethyl Benzene  
Concen: 2.529 ug/l  
RT: 11.60 min Scan# 1617  
Delta R.T. 0.00 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

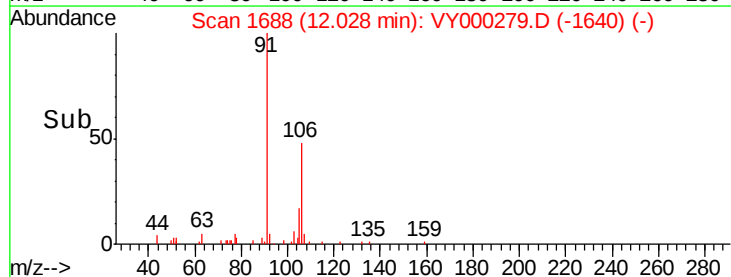
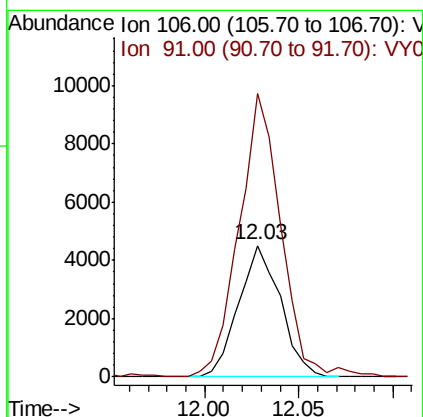
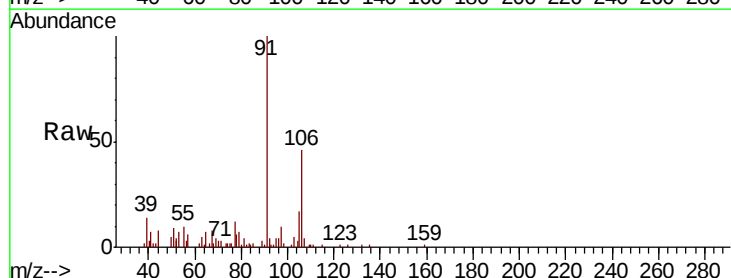
Instrument :  
MSVOA\_Y  
ClientSampleId :

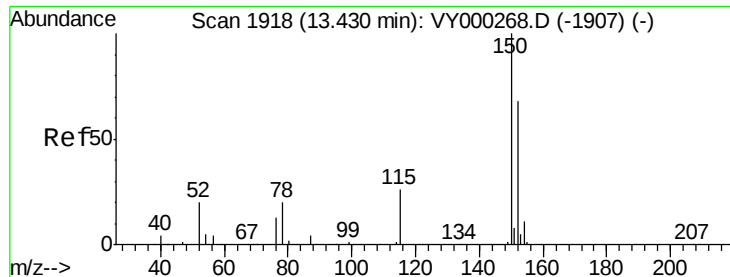
Tot Ion: 91 Resp: 32000  
Ion Ratio Lower Upper  
91 100  
106 34.4 25.0 37.6



#69  
o-Xylene  
Concen: 1.510 ug/l  
RT: 12.03 min Scan# 1688  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Tgt Ion: 106 Resp: 6968  
Ion Ratio Lower Upper  
106 100  
91 216.2 104.7 313.9



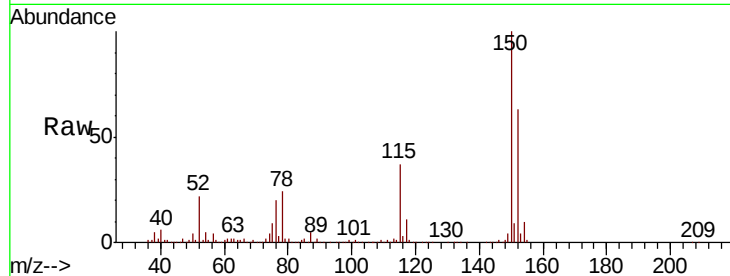


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Instrument :  
MSVOA\_Y  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.8  | 29.3  | 88.0  |
| 150     | 154.6 | 0.0   | 348.4 |

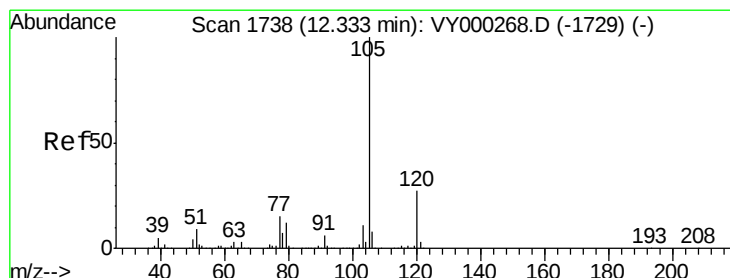
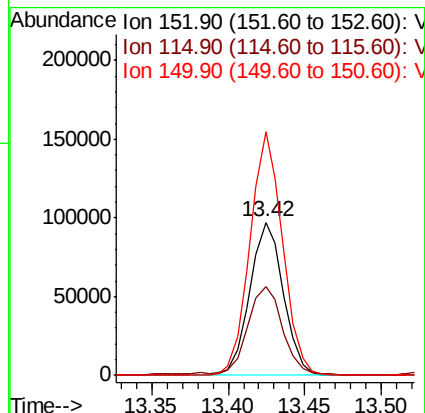
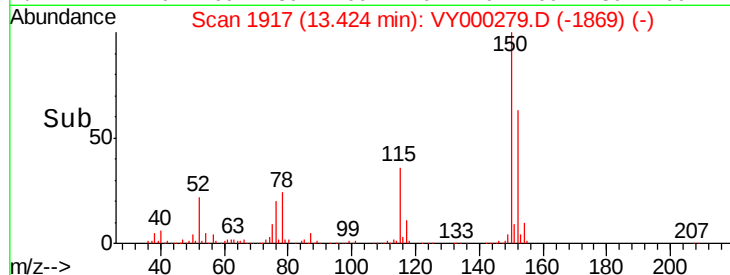


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

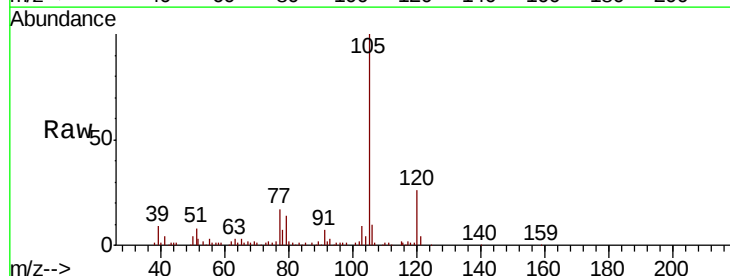
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene  
Concen: 4.160 ug/l  
RT: 12.33 min Scan# 1737  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

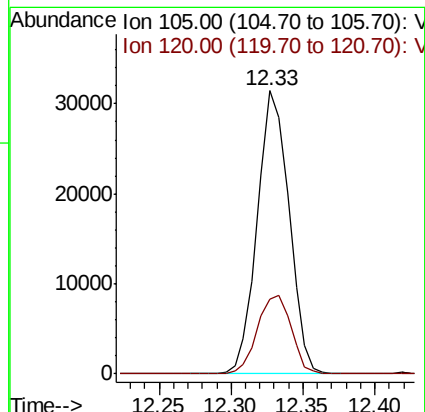
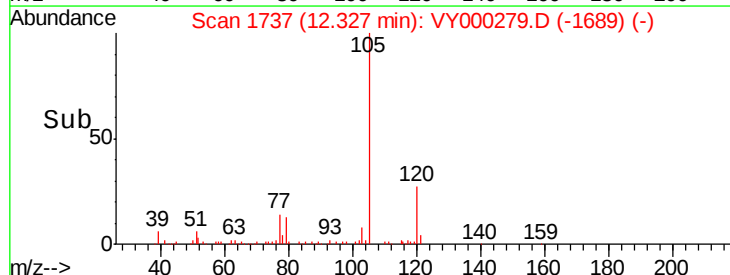
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 29.4  | 13.4  | 40.2  |

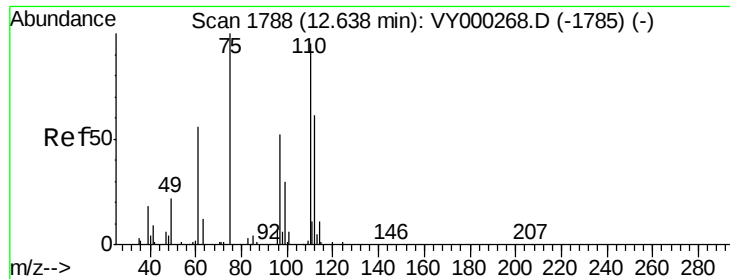


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

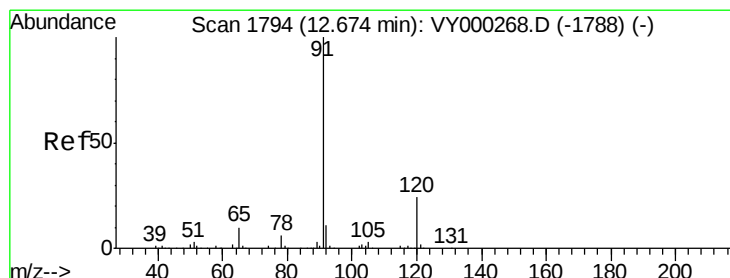
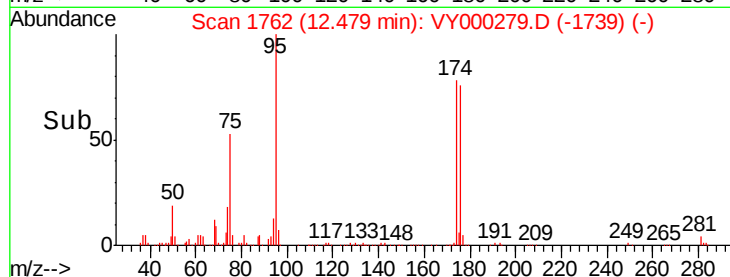
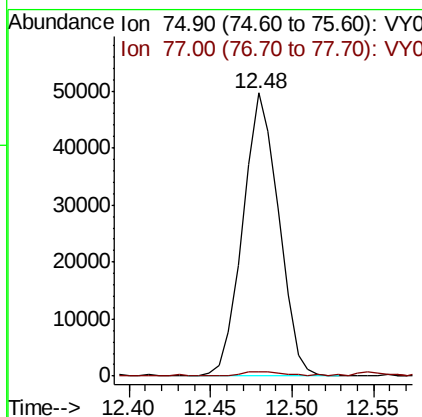
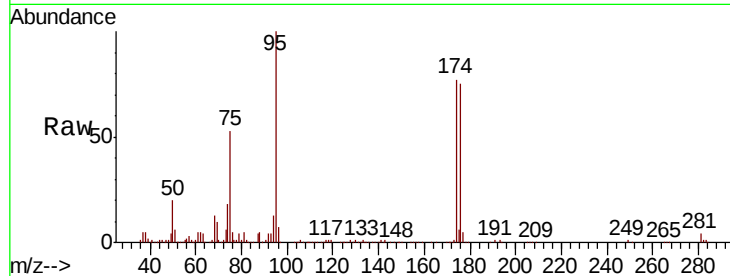




#76  
 1,2,3-Trichloropropane  
 Concen: 41.952 ug/l  
 RT: 12.48 min Scan# 1762  
 Delta R.T. -0.16 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

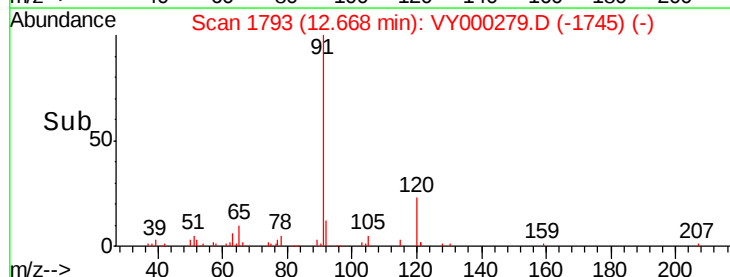
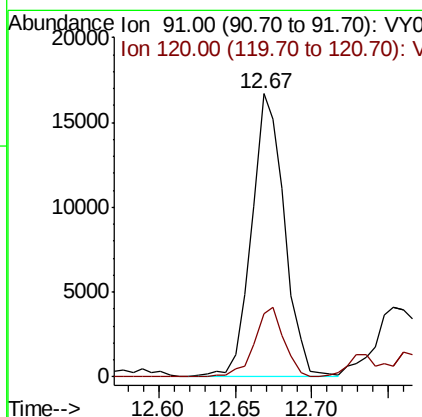
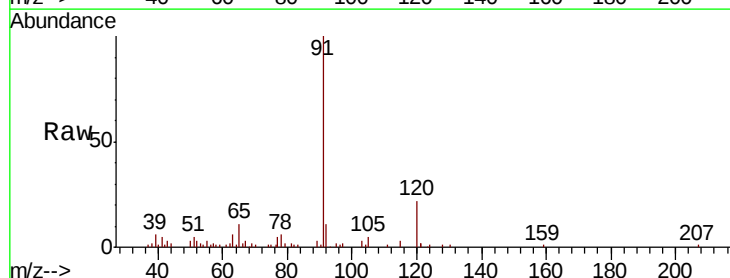
Instrument :  
 MSVOA\_Y  
 ClientSampled :

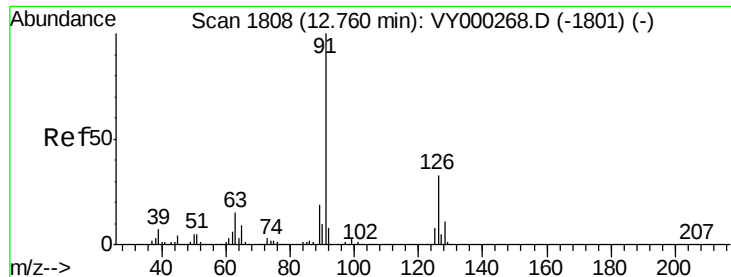
Tot Ion: 75 Resp: 76191  
 Ion Ratio Lower Upper  
 75 100  
 77 1.9 0.0 0.0#



#78  
 n-propylbenzene  
 Concen: 1.798 ug/l  
 RT: 12.67 min Scan# 1793  
 Delta R.T. -0.01 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

Tgt Ion: 91 Resp: 24855  
 Ion Ratio Lower Upper  
 91 100  
 120 22.1 11.5 34.5

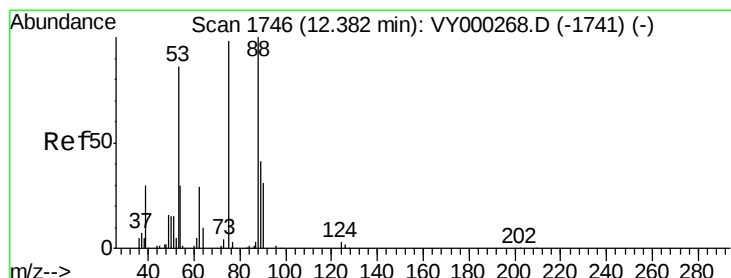
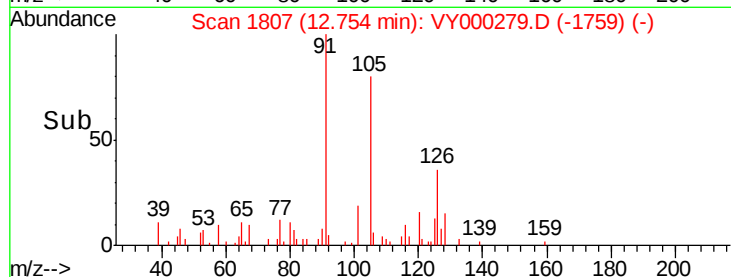
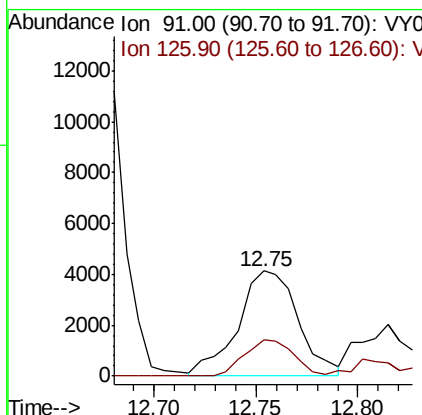
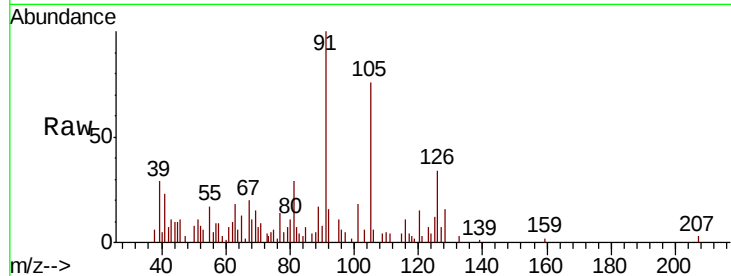




#79  
 2-Chlorotoluene  
 Concen: 1.099 ug/l  
 RT: 12.75 min Scan# 1807  
 Delta R.T. -0.01 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

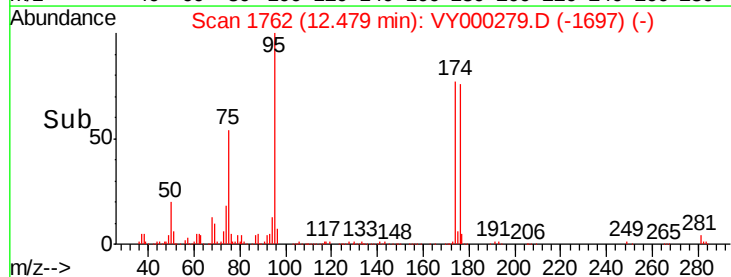
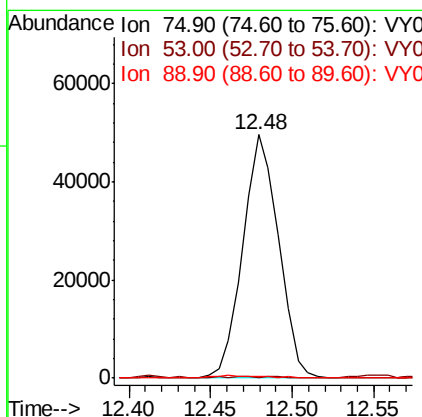
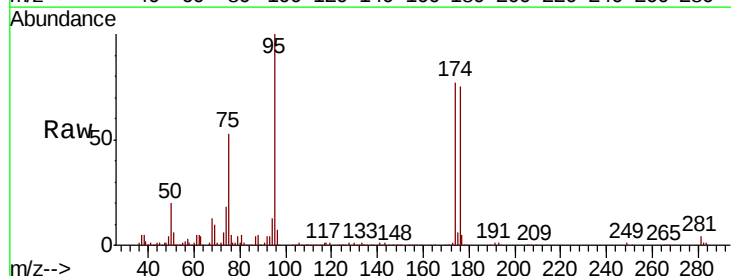
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

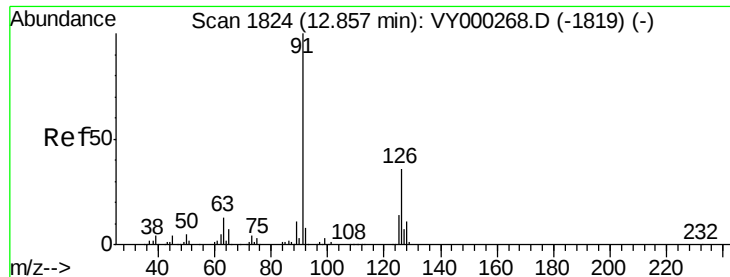
Tot Ion: 91 Resp: 8395  
 Ion Ratio Lower Upper  
 91 100  
 126 28.5 17.1 51.3



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 91.789 ug/l  
 RT: 12.48 min Scan# 1762  
 Delta R.T. 0.10 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

Tgt Ion: 75 Resp: 76191  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 71.3 106.9#  
 89 0.0 35.1 52.7#





#82

4-Chlorotoluene

Concen: 5.351 ug/l

RT: 12.85 min Scan# 1823

Delta R.T. -0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

Instrument :

MSVOA\_Y

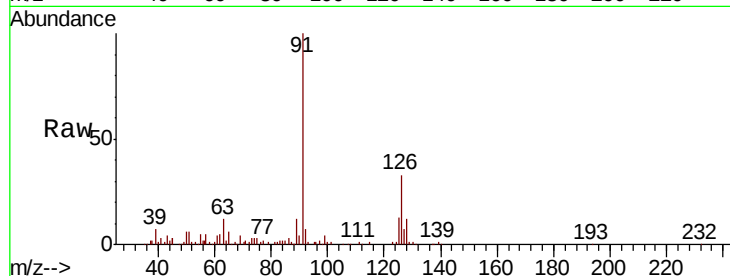
ClientSampleId :

Tot Ion: 91 Resp: 43193

Ion Ratio Lower Upper

91 100

126 32.6 17.2 51.5



Abundance Ion 91.00 (90.70 to 91.70): VY000268.D (-1819) (-)

Ion 125.90 (125.60 to 126.60): VY000268.D (-1819) (-)

12.85

30000

25000

20000

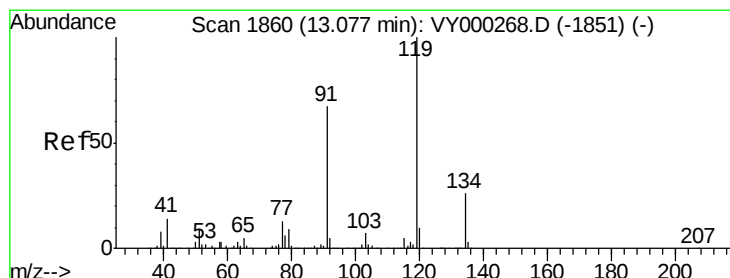
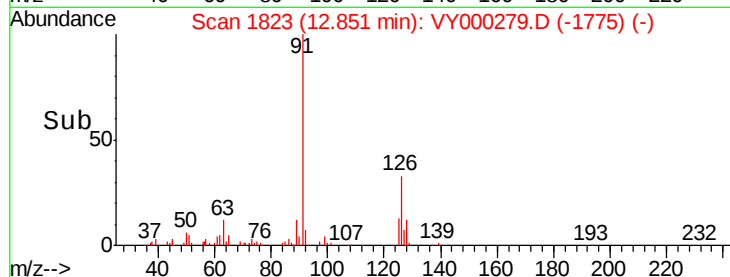
15000

10000

5000

0

Time--> 12.80 12.85 12.90



#83

tert-Butylbenzene

Concen: 5.009 ug/l

RT: 13.07 min Scan# 1859

Delta R.T. -0.01 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

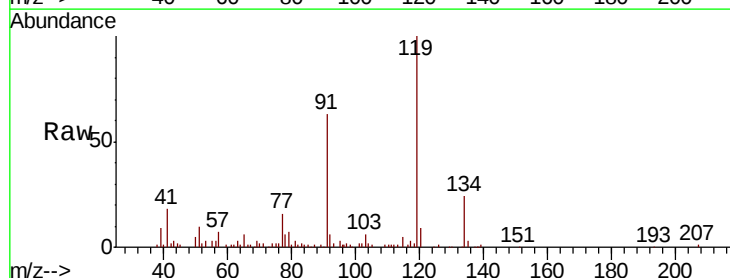
Tgt Ion: 119 Resp: 40963

Ion Ratio Lower Upper

119 100

91 66.0 32.9 98.7

134 26.8 13.3 39.8



Abundance Ion 119.00 (118.70 to 119.70): VY000268.D (-1851) (-)

Ion 91.00 (90.70 to 91.70): VY000268.D (-1851) (-)

Ion 134.00 (133.70 to 134.70): VY000268.D (-1851) (-)

13.07

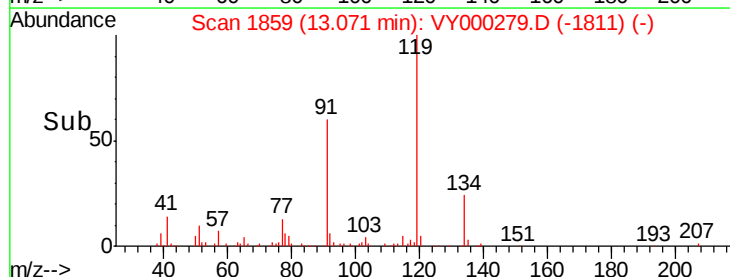
30000

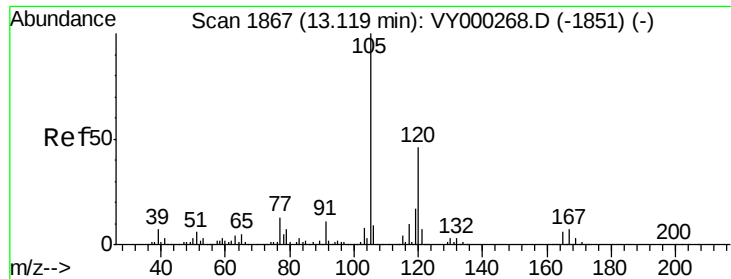
20000

10000

0

Time--> 13.00 13.05 13.10

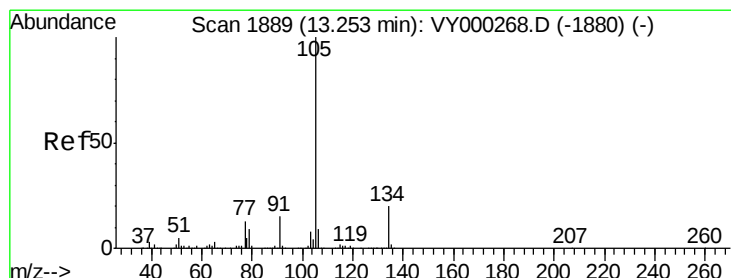
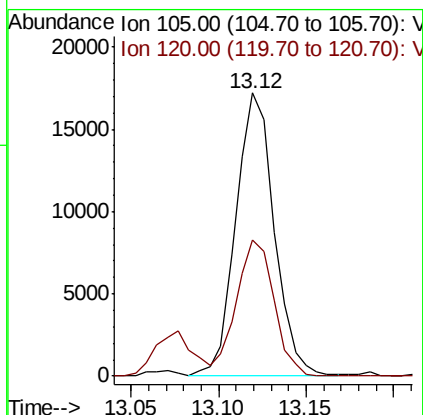
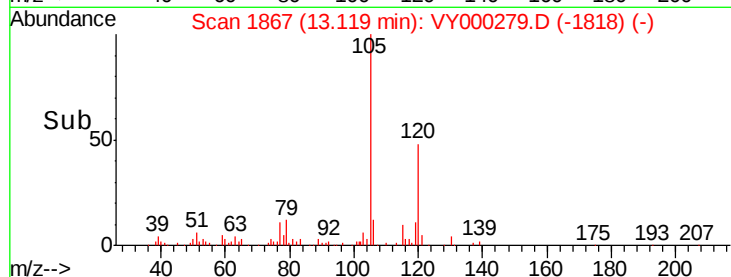
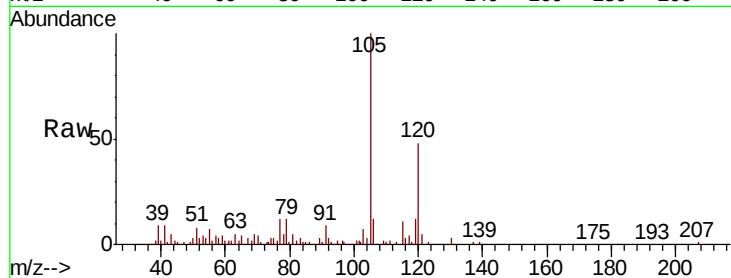




#84  
 1,2,4-Trimethylbenzene  
 Concen: 2.731 ug/l  
 RT: 13.12 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

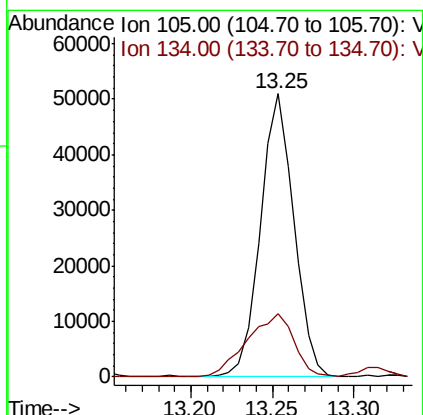
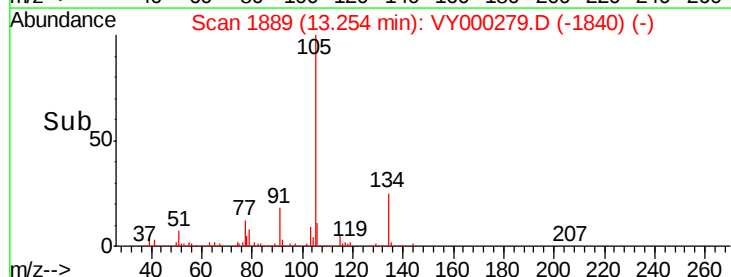
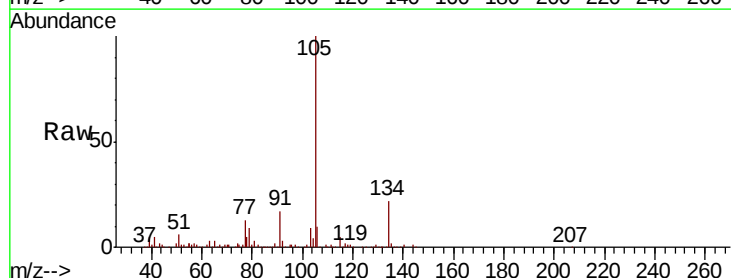
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

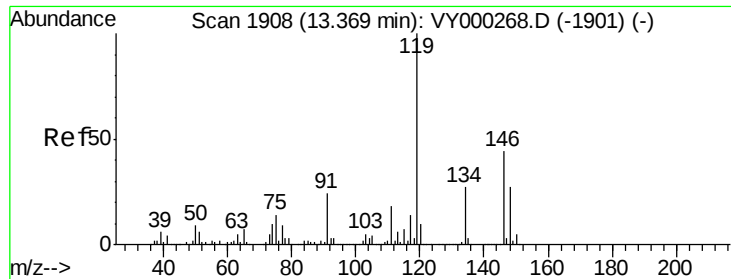
Tot Ion:105 Resp: 26033  
 Ion Ratio Lower Upper  
 105 100  
 120 47.5 22.9 68.8



#85  
 sec-Butylbenzene  
 Concen: 6.122 ug/l  
 RT: 13.25 min Scan# 1889  
 Delta R.T. 0.00 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

Tgt Ion:105 Resp: 72429  
 Ion Ratio Lower Upper  
 105 100  
 134 31.4 10.1 30.1#

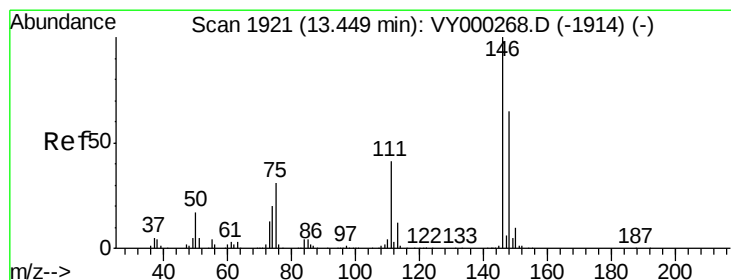
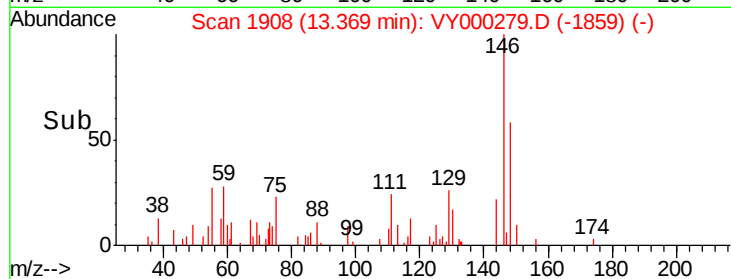
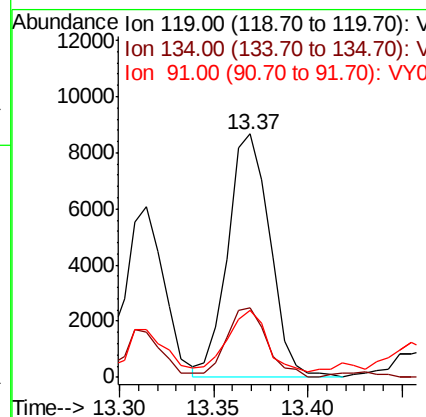
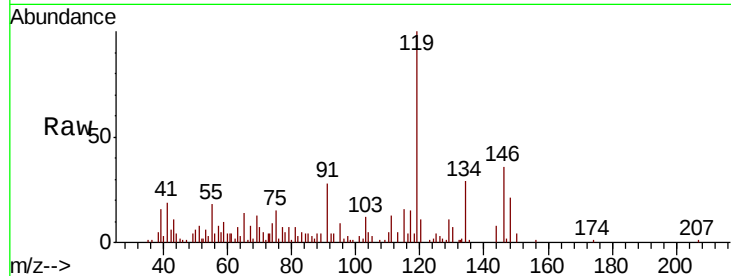




#86  
 p-Isopropyltoluene  
 Concen: 1.304 ug/l  
 RT: 13.37 min Scan# 1908  
 Delta R.T. 0.00 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

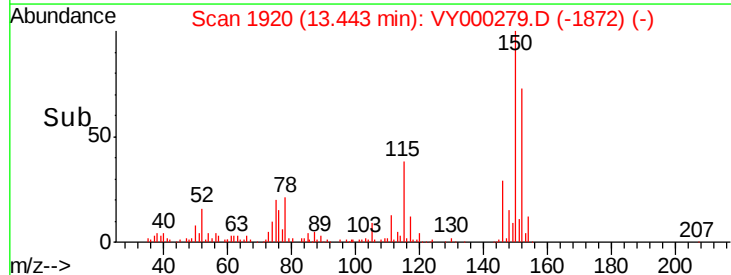
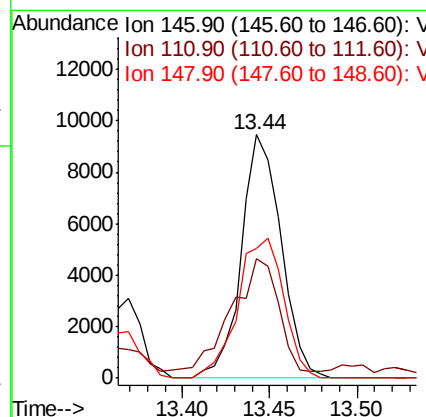
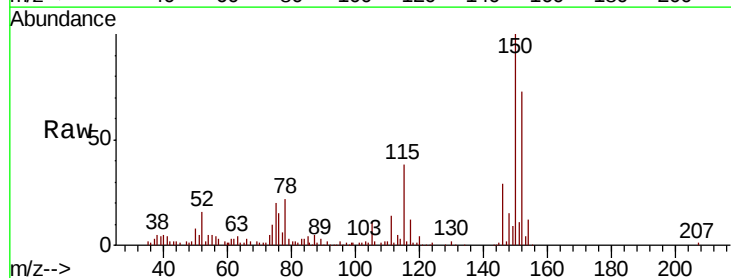
Instrument :  
 MSVOA\_Y  
 ClientSampled :

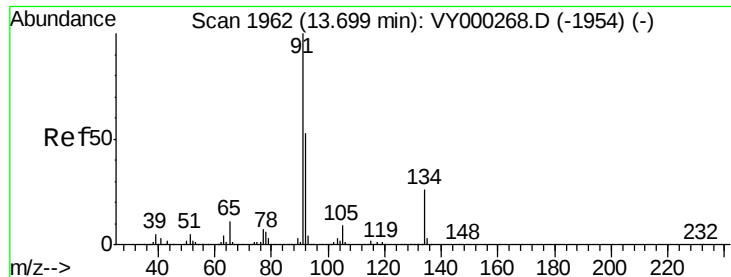
Tot Ion:119 Resp: 13447  
 Ion Ratio Lower Upper  
 119 100  
 134 27.6 13.6 40.8  
 91 23.7 12.0 36.1



#88  
 1,4-Dichlorobenzene  
 Concen: 2.965 ug/l  
 RT: 13.44 min Scan# 1920  
 Delta R.T. -0.01 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

Tgt Ion:146 Resp: 14966  
 Ion Ratio Lower Upper  
 146 100  
 111 55.5 20.1 60.2  
 148 66.4 32.4 97.2

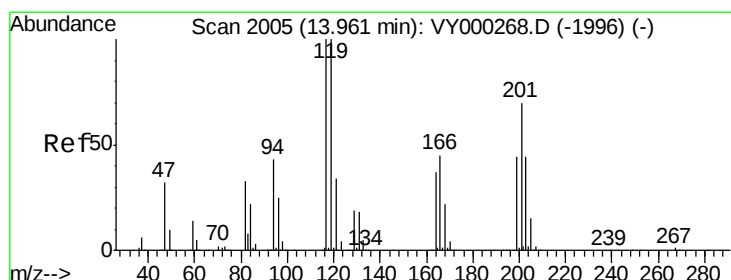
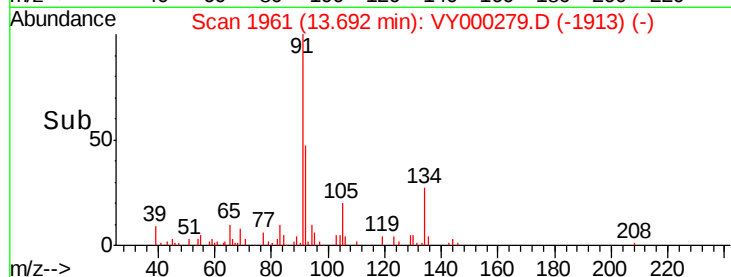
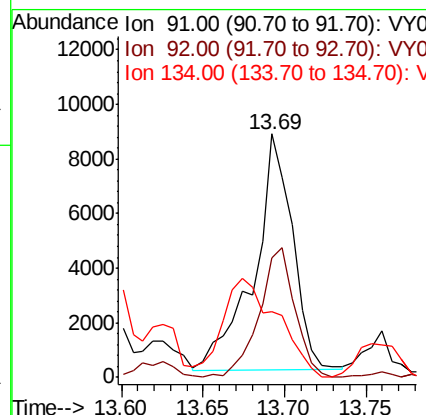
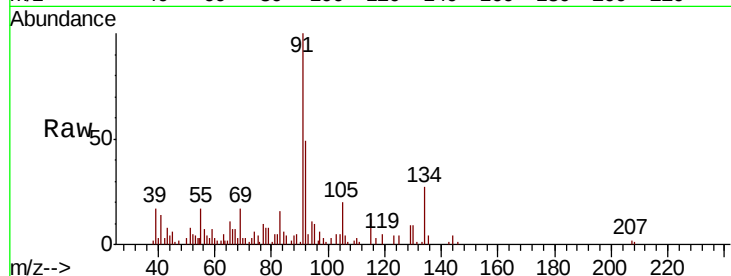




#89  
n-Butylbenzene  
Concen: 1.389 ug/l  
RT: 13.69 min Scan# 1961  
Delta R.T. -0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

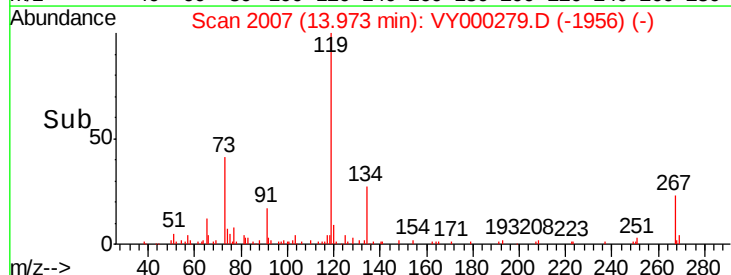
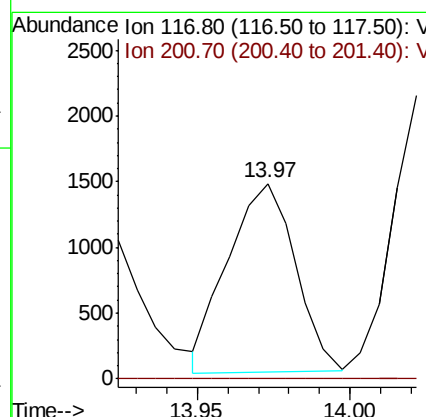
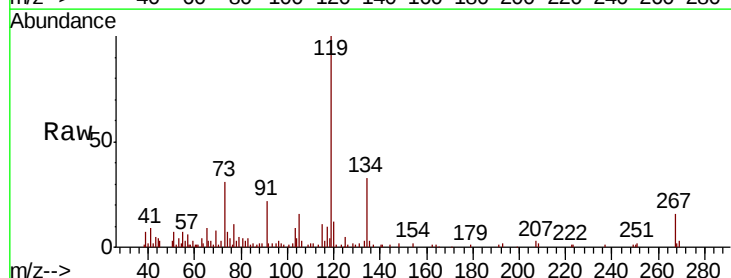
Instrument :  
MSVOA\_Y  
ClientSampled :

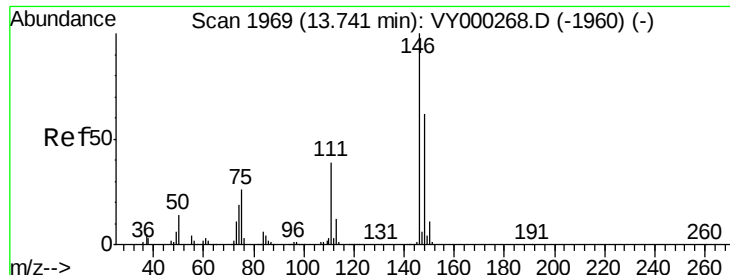
Tot Ion: 91 Resp: 14156  
Ion Ratio Lower Upper  
91 100  
92 51.3 26.7 80.1  
134 0.0 13.0 38.9#



#90  
Hexachloroethane  
Concen: 1.148 ug/l  
RT: 13.97 min Scan# 2007  
Delta R.T. 0.01 min  
Lab File: VY000279.D  
Acq: 11 Oct 2019 18:35

Tgt Ion: 117 Resp: 2192  
Ion Ratio Lower Upper  
117 100  
201 0.0 36.3 108.7#

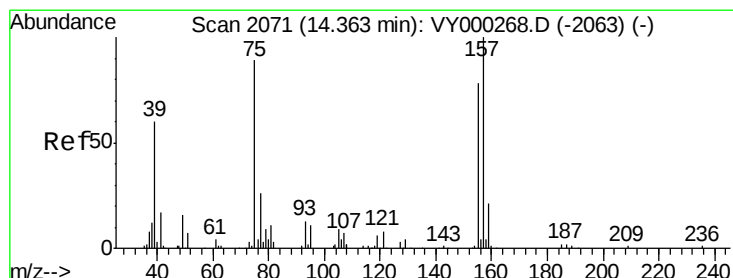
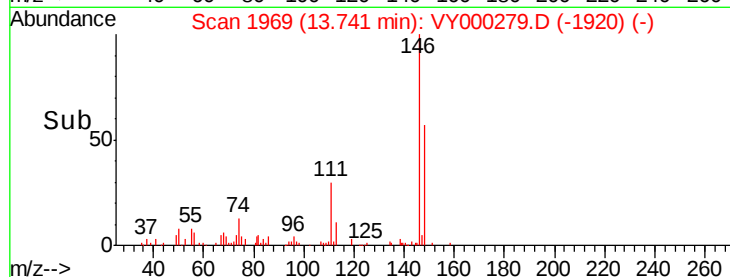
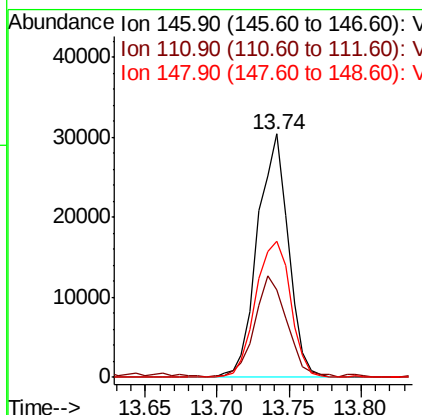
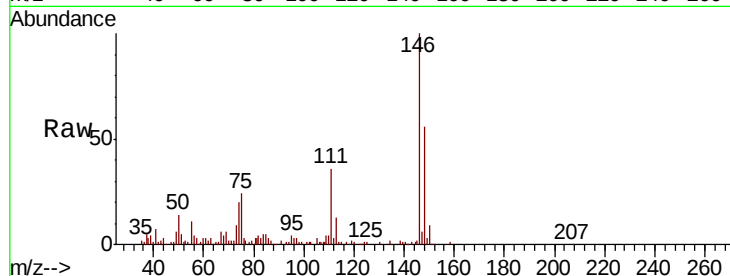




#91  
 1,2-Dichlorobenzene  
 Concen: 9.837 ug/l  
 RT: 13.74 min Scan# 1969  
 Delta R.T. 0.00 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

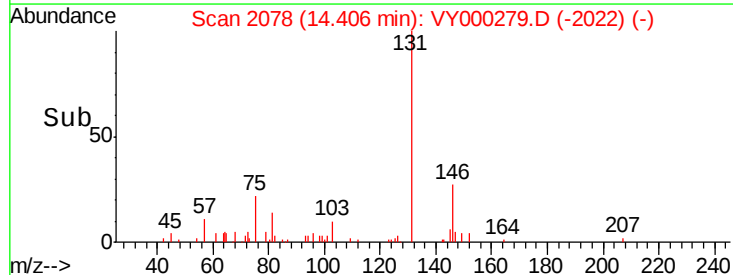
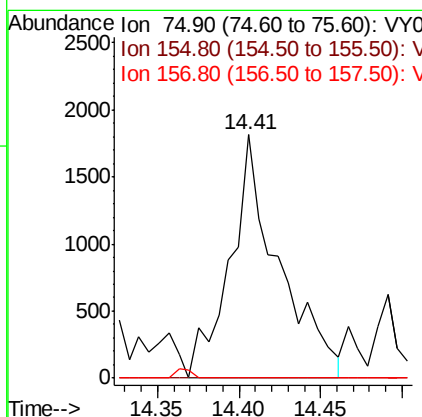
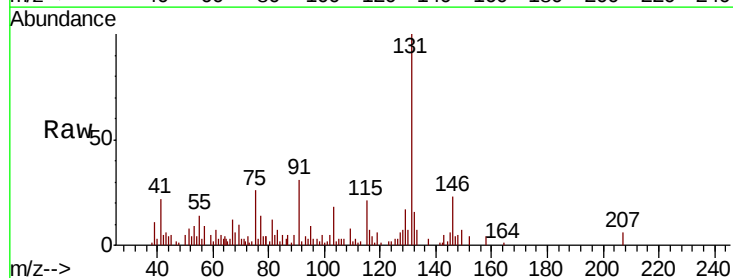
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

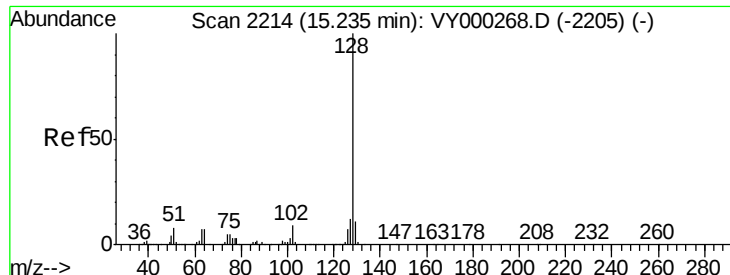
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.6  | 20.5  | 61.5  |
| 148     | 63.3  | 31.6  | 95.0  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 9.120 ug/l  
 RT: 14.41 min Scan# 2078  
 Delta R.T. 0.04 min  
 Lab File: VY000279.D  
 Acq: 11 Oct 2019 18:35

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 0.0   | 45.8  | 137.3# |
| 157     | 0.0   | 55.6  | 166.9# |





#95

Naphthalene

Concen: 2.995 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VY000279.D

Acq: 11 Oct 2019 18:35

Instrument :

MSVOA\_Y

ClientSampleId :

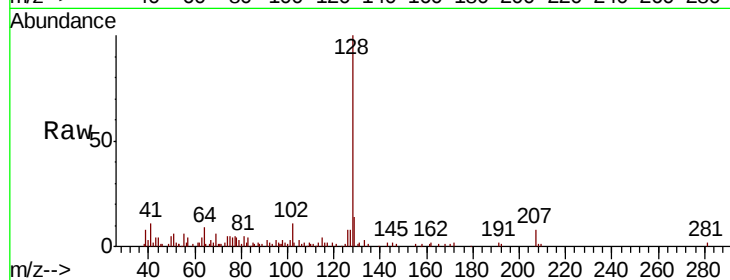
Tot Ion:128 Resp: 21264

Ion Ratio Lower Upper

128 100

127 15.1 9.6 14.4#

129 11.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

