

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091420\  
 Data File : VX018387.D  
 Acq On : 14 Sep 2020 16:35  
 Operator : JC/SP  
 Sample : PB131574ZHE#03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Sep 15 05:11:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

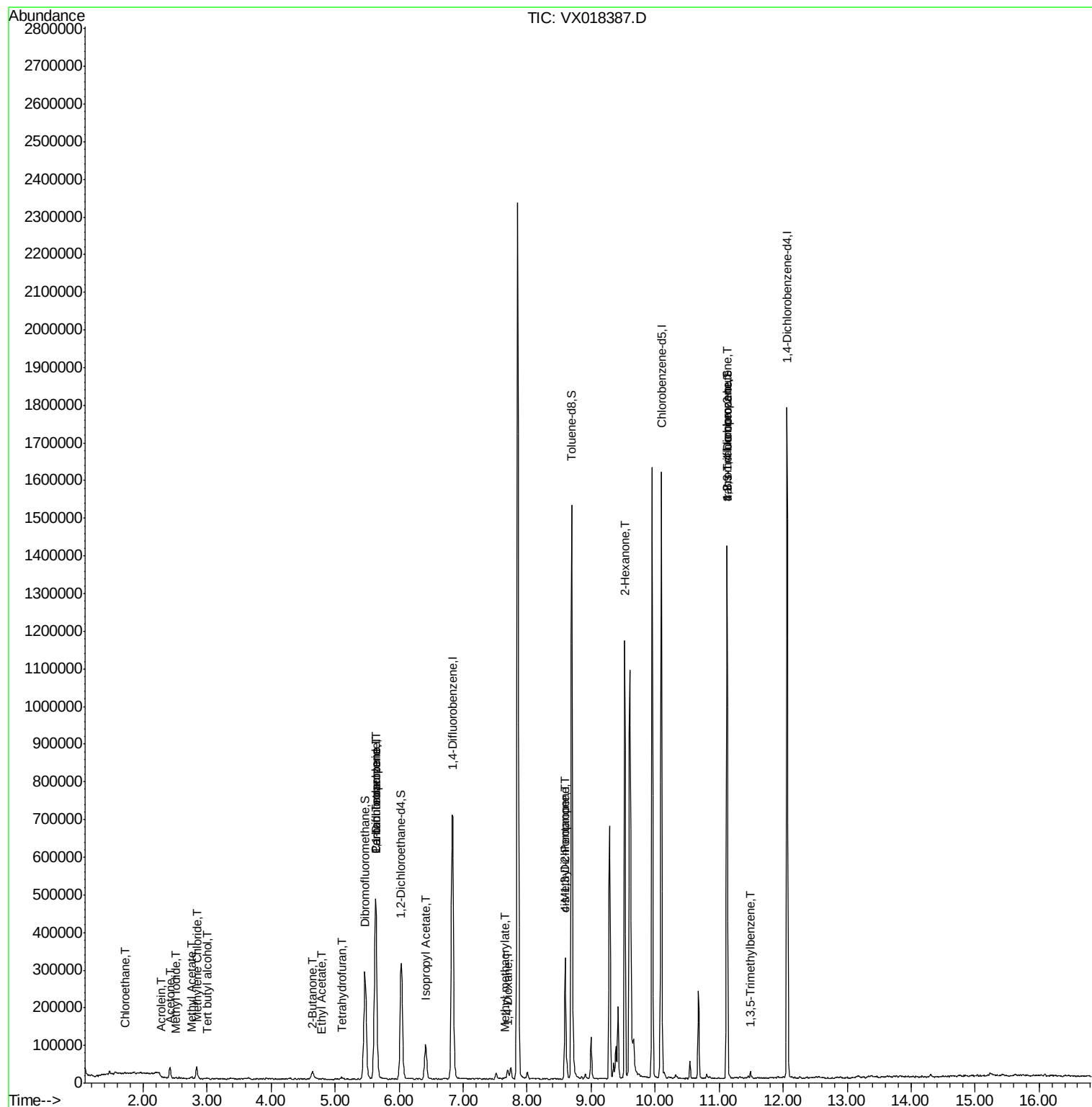
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 5.64  | 168  | 443015   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.84  | 114  | 710514   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 10.10 | 117  | 715901   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.06 | 152  | 355076   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.04  | 65   | 317206   | 51.58  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 103.16% |          |
| 35) Dibromofluoromethane       | 5.46  | 113  | 245503   | 50.73  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 101.46% |          |
| 50) Toluene-d8                 | 8.70  | 98   | 888456   | 49.30  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 98.60%  |          |
| 62) 4-Bromofluorobenzene       | 11.12 | 95   | 348548   | 49.15  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 98.30%  |          |
| Target Compounds               |       |      |          | Qvalue |         |          |
| 6) Chloroethane                | 1.71  | 64   | 953      | 0.313  | ug/l    | 89       |
| 10) Methyl Iodide              | 2.50  | 142  | 511      | 5.389  | ug/l #  | 70       |
| 11) Tert butyl alcohol         | 2.99  | 59   | 1151     | 0.963  | ug/l #  | 71       |
| 13) Acrolein                   | 2.28  | 56   | 361      | 0.728  | ug/l #  | 55       |
| 16) Acetone                    | 2.42  | 43   | 28525    | 11.903 | ug/l    | 94       |
| 18) Methyl Acetate             | 2.75  | 43   | 7024     | 1.215  | ug/l #  | 84       |
| 20) Methylene Chloride         | 2.84  | 84   | 14421    | 1.818  | ug/l    | 97       |
| 25) 2-Butanone                 | 4.64  | 43   | 9636     | 2.447  | ug/l #  | 82       |
| 29) Tetrahydrofuran            | 5.10  | 42   | 3879     | 1.547  | ug/l #  | 82       |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 34478    | 5.261  | ug/l #  | 47       |
| 37) Ethyl Acetate              | 4.80  | 43   | 1909     | 0.251  | ug/l #  | 70       |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 46043    | 6.234  | ug/l #  | 16       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 122807   | 9.989  | ug/l    | 98       |
| 48) Methyl methacrylate        | 7.65  | 41   | 7852     | 1.283  | ug/l #  | 16       |
| 49) 1,4-Dioxane                | 7.70  | 88   | 296      | 2.670  | ug/l #  | 1        |
| 51) 4-Methyl-2-Pentanone       | 8.60  | 43   | 124249   | 16.361 | ug/l #  | 47       |
| 54) cis-1,3-Dichloropropene    | 8.60  | 75   | 50557    | 5.909  | ug/l #  | 63       |
| 59) 2-Hexanone                 | 9.52  | 43   | 133933   | 23.194 | ug/l #  | 51       |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 180476   | 22.849 | ug/l #  | 36       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 7840     | 0.407  | ug/l    | 94       |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 180476   | 61.710 | ug/l #  | 12       |

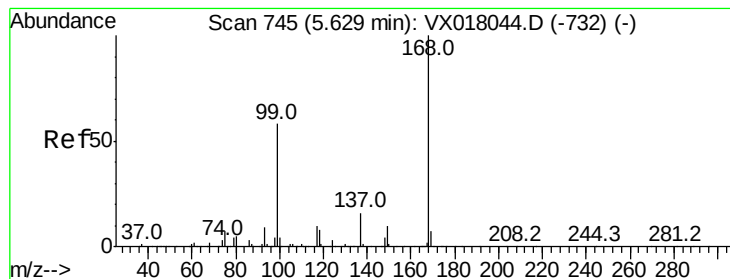
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Instrument :

MSVOA\_X

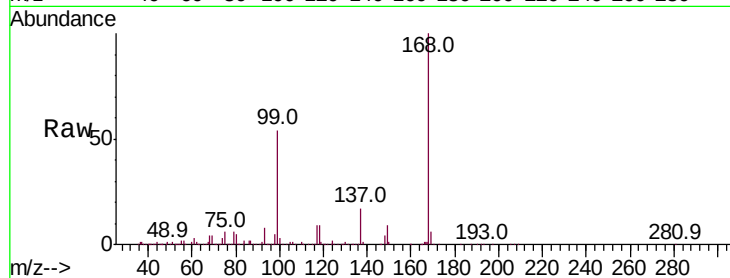
ClientSampleId :

Tot Ion:168 Resp: 443015

Ion Ratio Lower Upper

168 100

99 53.7 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

150000

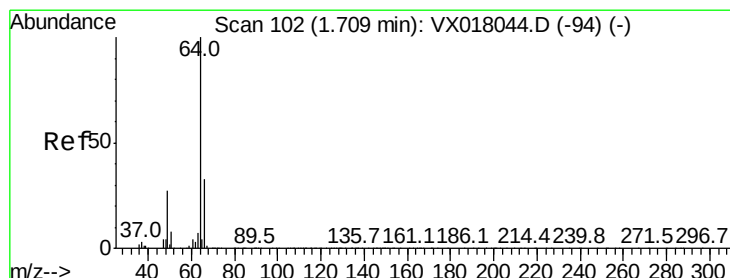
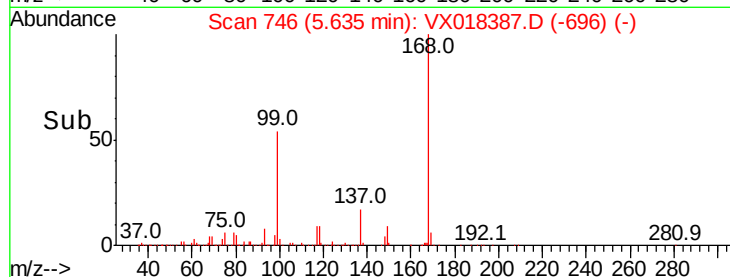
100000

50000

0

Time-->

5.50 5.60 5.70



#6

Chloroethane

Concen: 0.313 ug/l

RT: 1.71 min Scan# 102

Delta R.T. -0.00 min

Lab File: VX018387.D

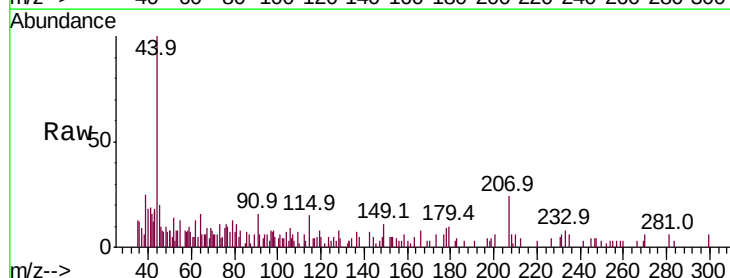
Acq: 14 Sep 2020 16:35

Tgt Ion: 64 Resp: 953

Ion Ratio Lower Upper

64 100

66 39.3 26.6 39.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

500

400

300

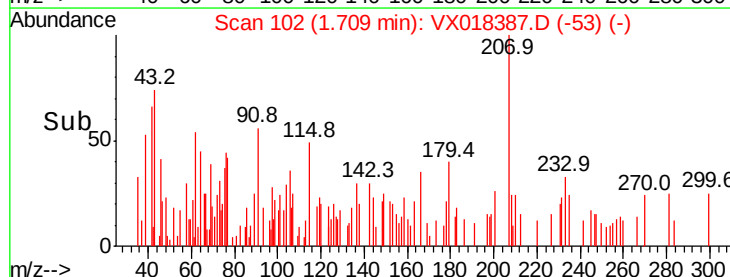
200

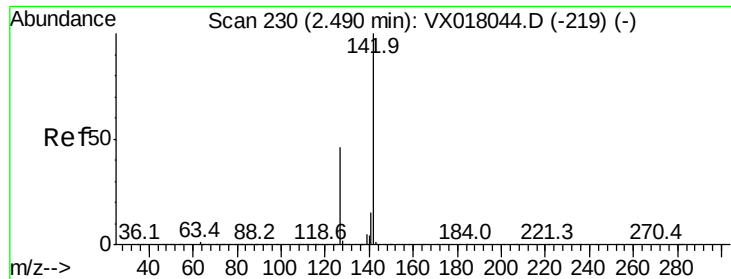
100

0

Time-->

1.70 1.75





#10

Methyl Iodide

Concen: 5.389 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Instrument :

MSVOA\_X

ClientSampled :

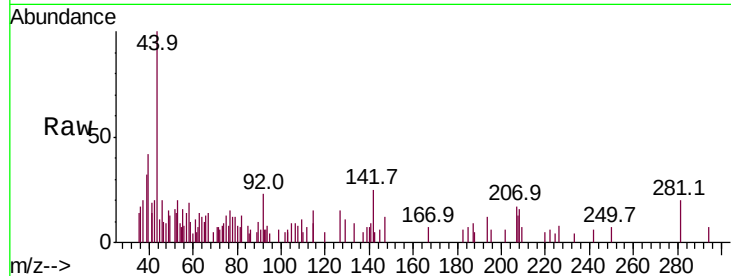
Tot Ion:142 Resp: 511

Ion Ratio Lower Upper

142 100

127 62.6 37.0 55.6#

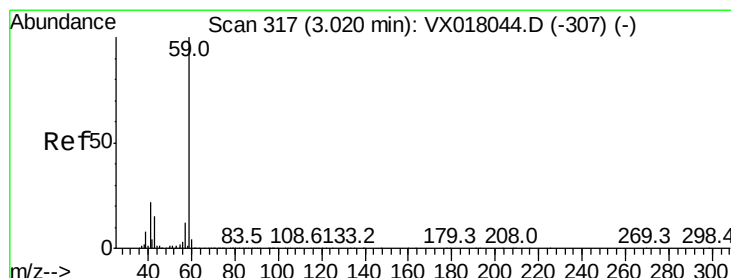
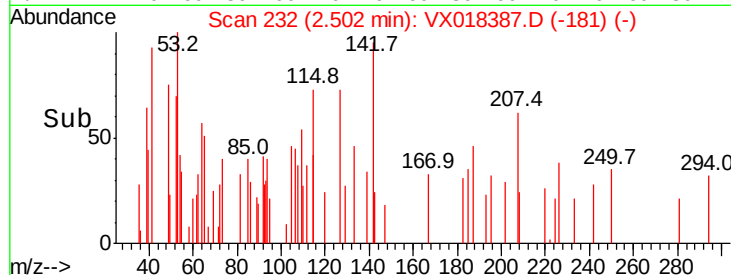
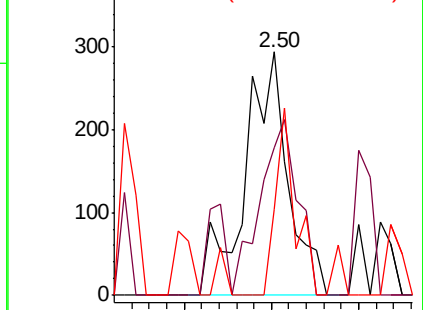
141 34.6 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.963 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.03 min

Lab File: VX018387.D

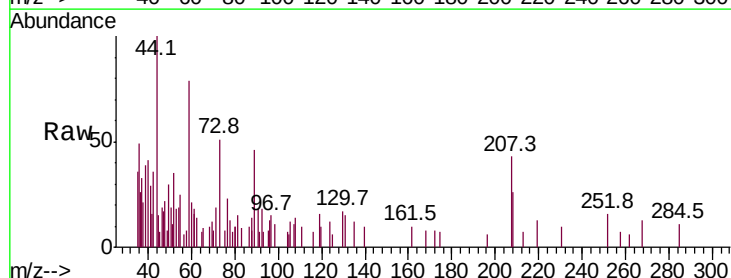
Acq: 14 Sep 2020 16:35

Tgt Ion: 59 Resp: 1151

Ion Ratio Lower Upper

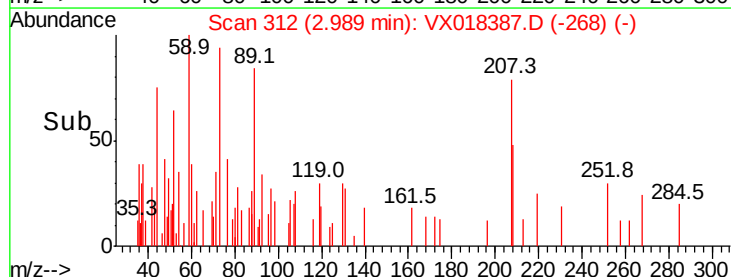
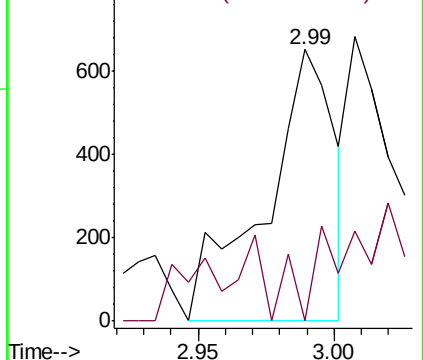
59 100

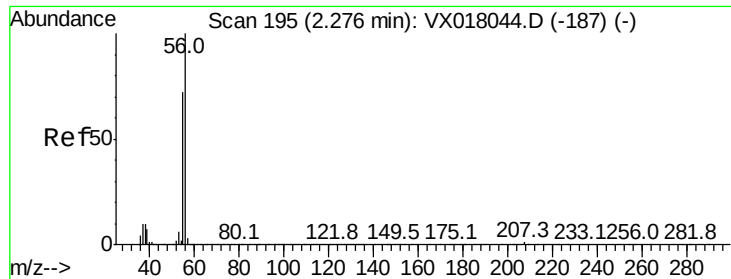
57 0.0 8.9 13.3#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.728 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Instrument :

MSVOA\_X

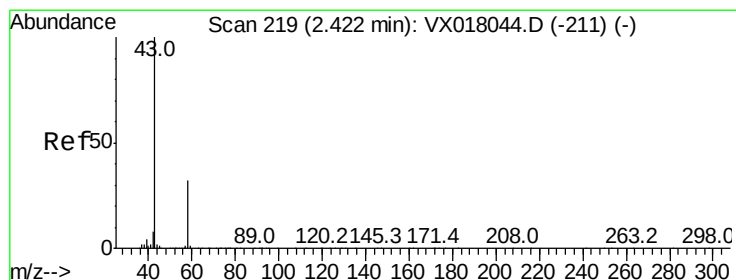
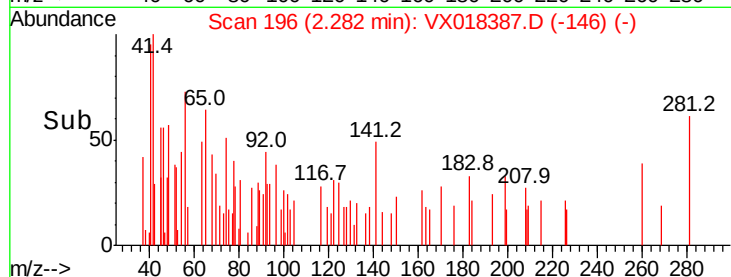
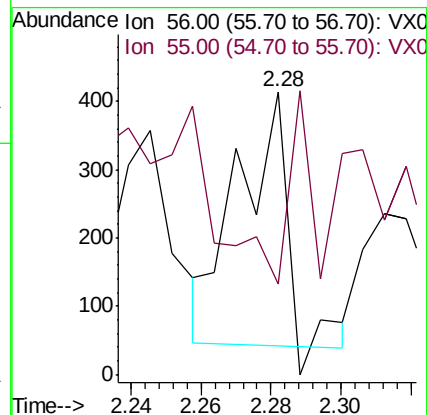
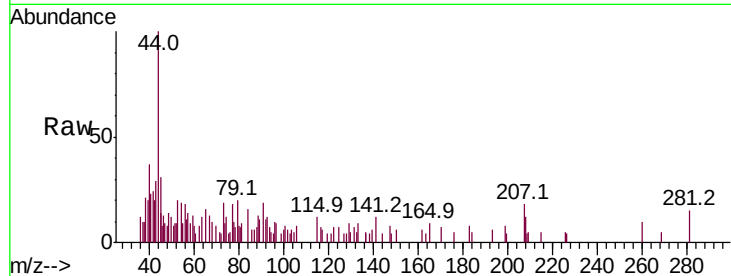
ClientSampleId :

Tot Ion: 56 Resp: 361

Ion Ratio Lower Upper

56 100

55 33.8 57.0 85.6#



#16

Acetone

Concen: 11.903 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018387.D

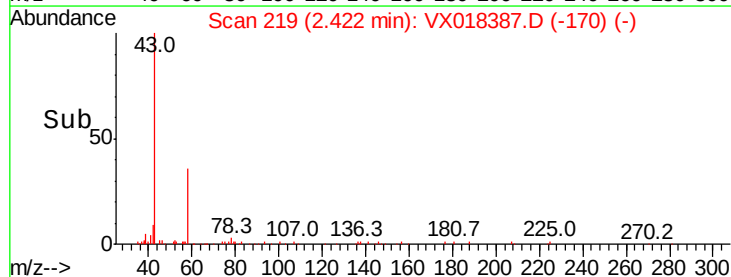
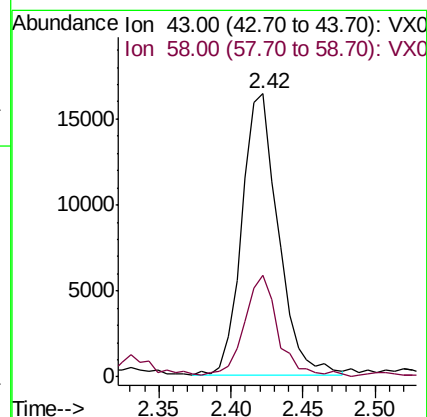
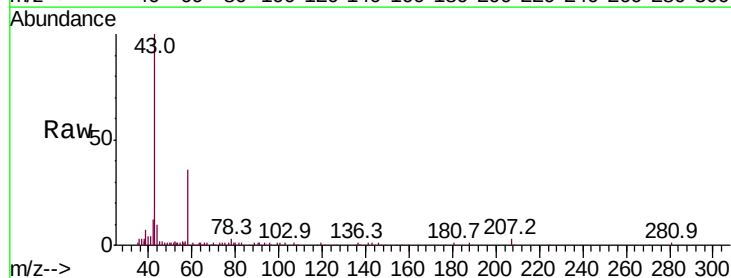
Acq: 14 Sep 2020 16:35

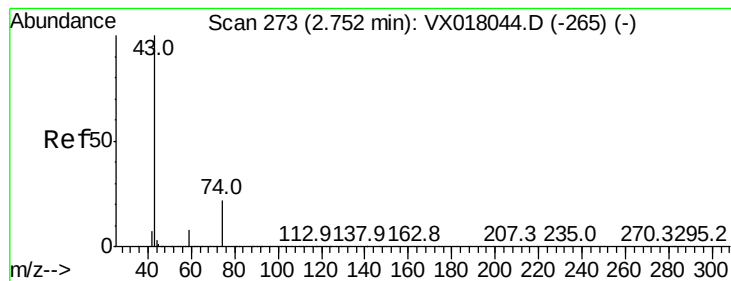
Tgt Ion: 43 Resp: 28525

Ion Ratio Lower Upper

43 100

58 35.0 25.5 38.3





#18

Methvl Acetate

Concen: 1.215 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Instrument :

MSVOA\_X

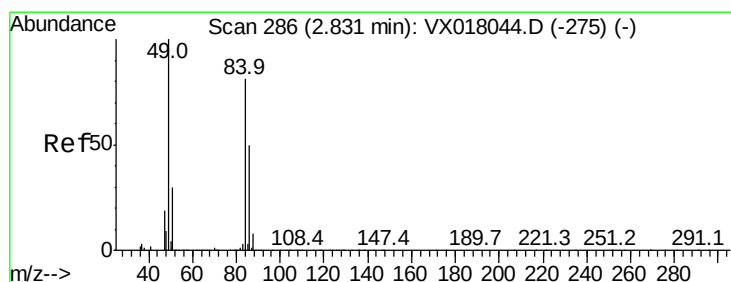
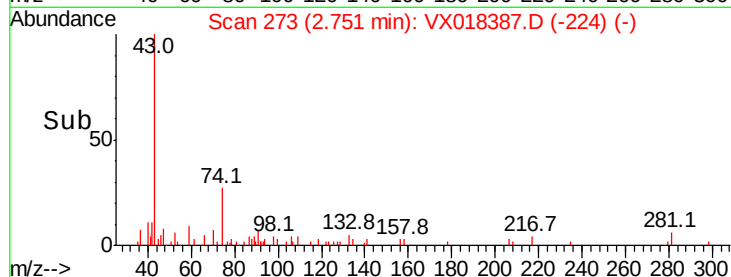
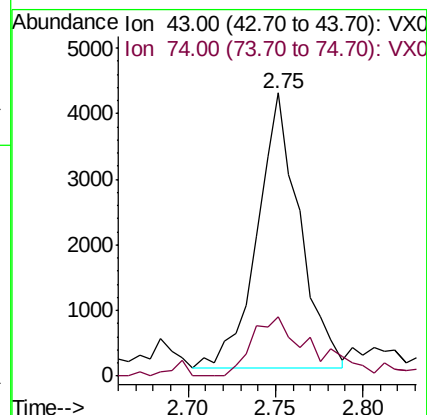
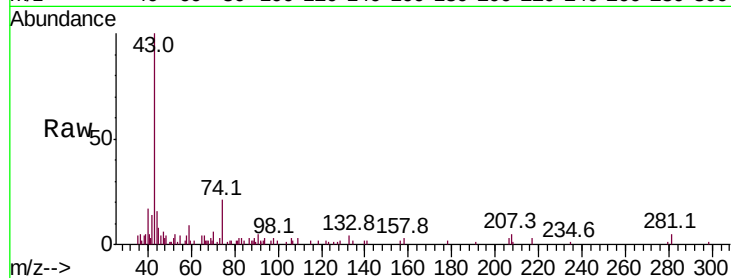
ClientSampleId :

Tot Ion: 43 Resp: 7024

Ion Ratio Lower Upper

43 100

74 30.5 18.2 27.4#



#20

Methylene Chloride

Concen: 1.818 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Tgt Ion: 84 Resp: 14421

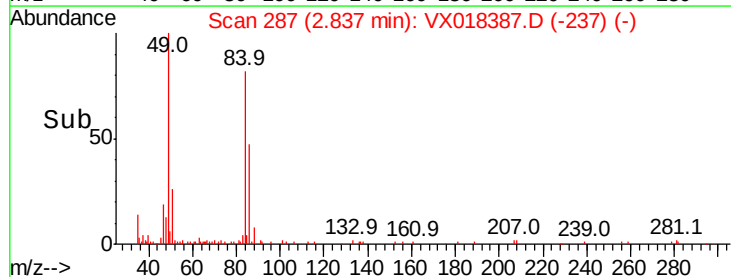
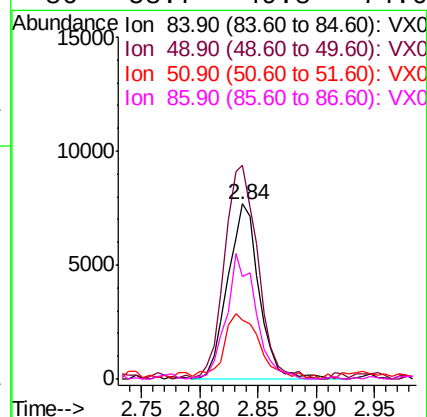
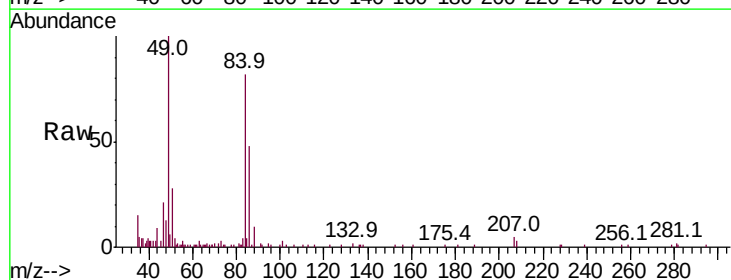
Ion Ratio Lower Upper

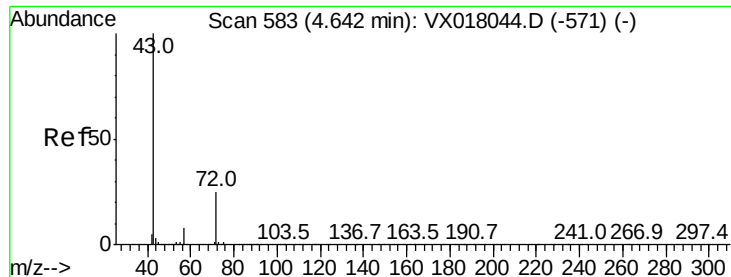
84 100

49 121.6 98.6 148.0

51 32.3 29.6 44.4

86 58.7 49.8 74.6





#25

2-Butanone

Concen: 2.447 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Instrument :

MSVOA\_X

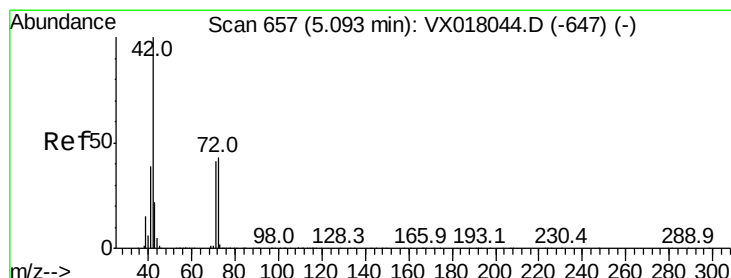
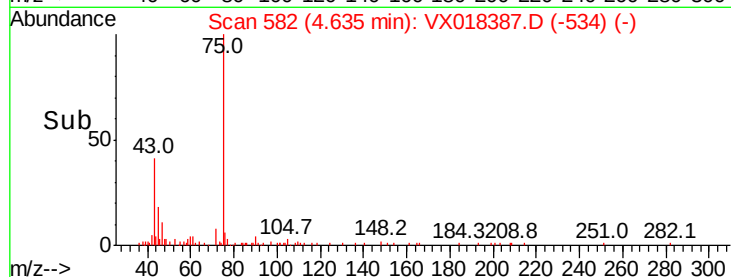
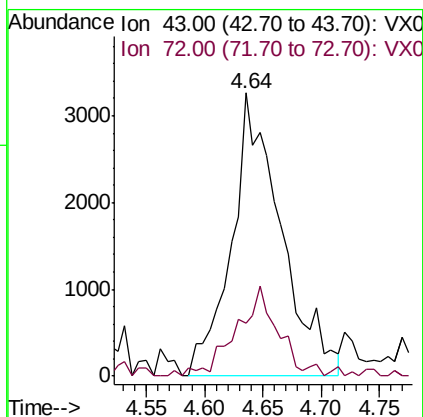
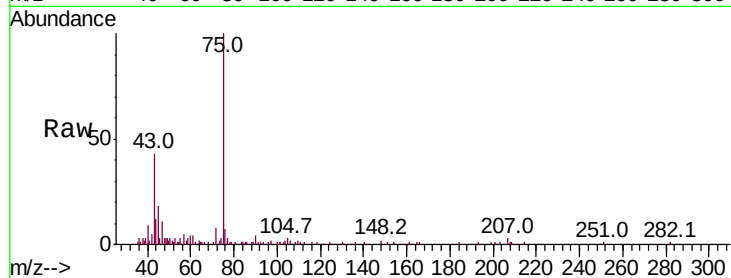
ClientSampleId :

Tot Ion: 43 Resp: 9636

Ion Ratio Lower Upper

43 100

72 15.9 19.8 29.6#



#29

Tetrahydrofuran

Concen: 1.547 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

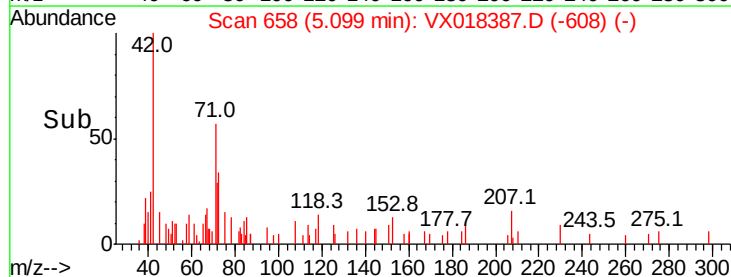
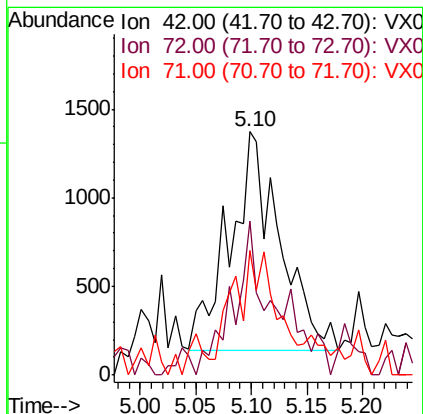
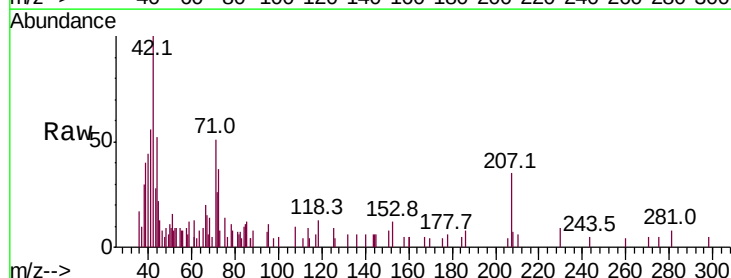
Tgt Ion: 42 Resp: 3879

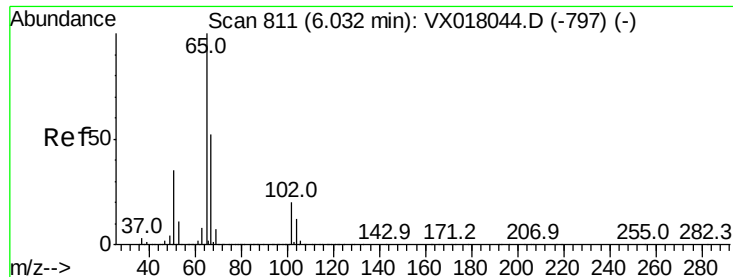
Ion Ratio Lower Upper

42 100

72 45.5 34.2 51.4

71 20.0 32.1 48.1#

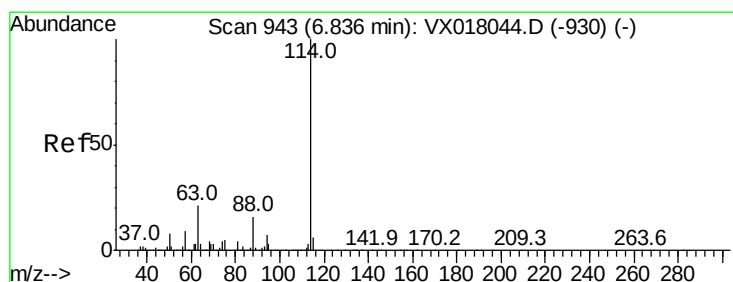
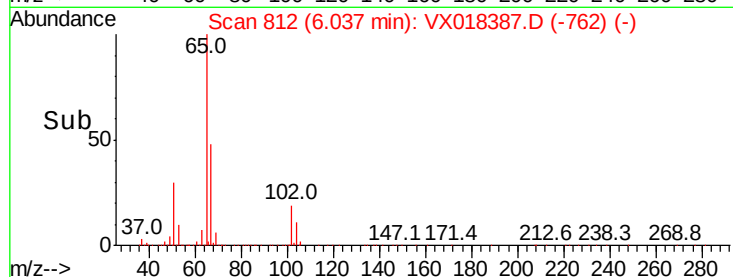
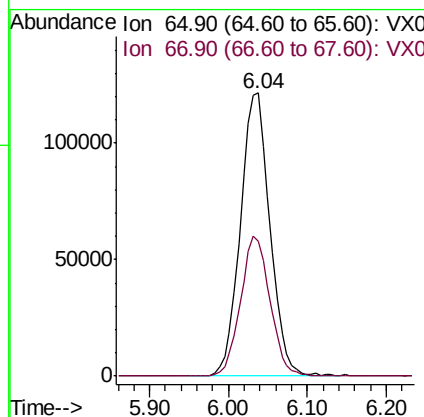
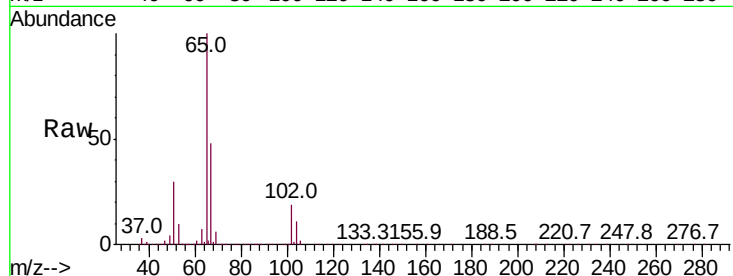




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.577 ug/l  
 RT: 6.04 min Scan# 812  
 Delta R.T. 0.01 min  
 Lab File: VX018387.D  
 Acq: 14 Sep 2020 16:35

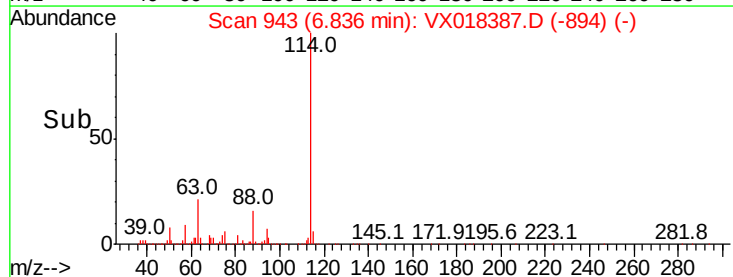
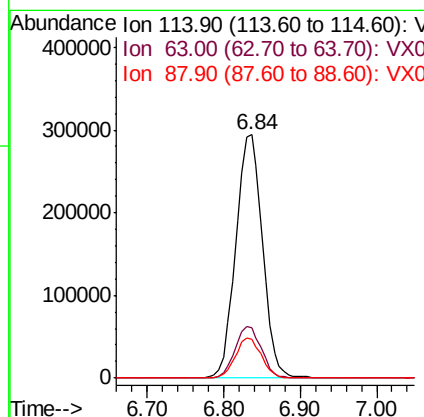
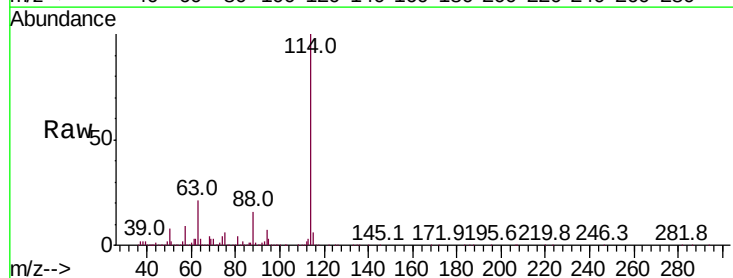
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 65 Resp: 317206  
 Ion Ratio Lower Upper  
 65 100  
 67 49.4 0.0 105.8

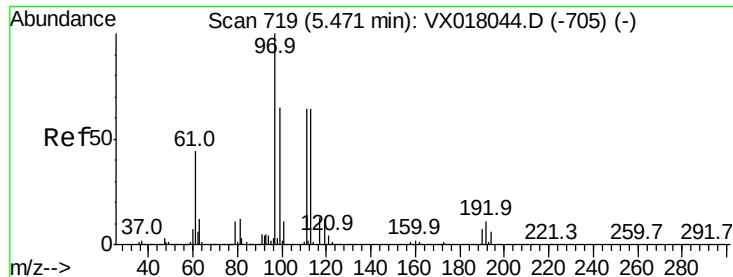


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. -0.00 min  
 Lab File: VX018387.D  
 Acq: 14 Sep 2020 16:35

Tgt Ion: 114 Resp: 710514  
 Ion Ratio Lower Upper  
 114 100  
 63 20.8 0.0 42.6  
 88 16.1 0.0 31.8



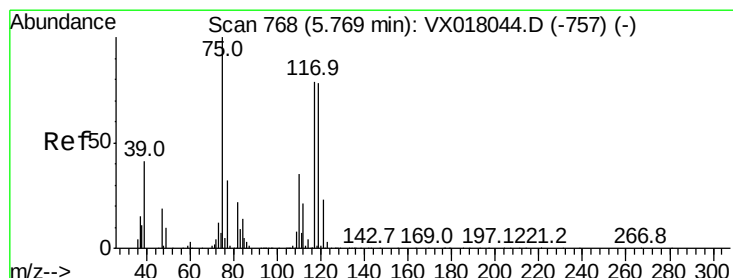
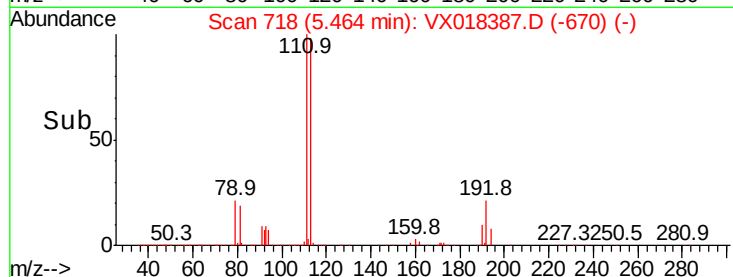
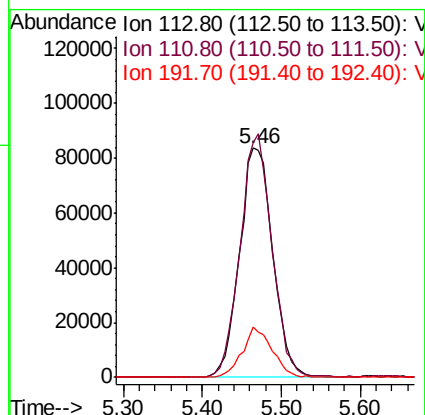
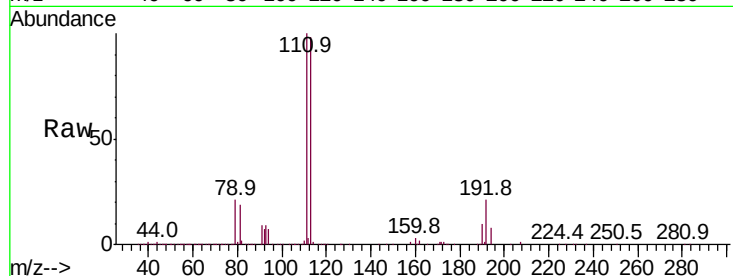




#35  
 Dibromofluoromethane  
 Concen: 50.735 ug/l  
 RT: 5.46 min Scan# 718  
 Delta R.T. -0.01 min  
 Lab File: VX018387.D  
 Acq: 14 Sep 2020 16:35

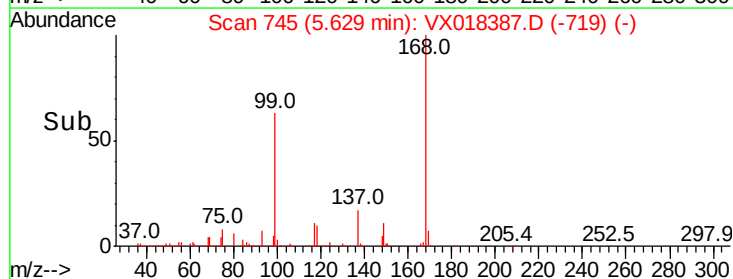
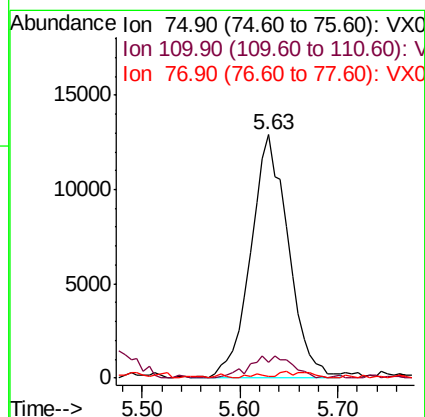
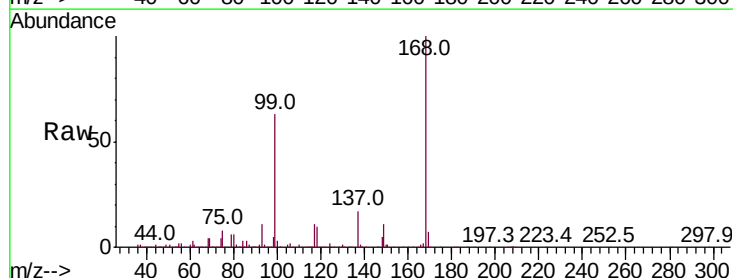
Instrument :  
 MSVOA\_X  
 ClientSampleId :

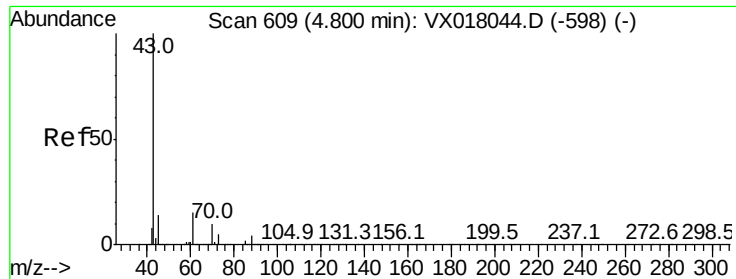
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.5 | 81.6  | 122.4 |
| 192     | 19.6  | 15.8  | 23.8  |



#36  
 1,1-Dichloropropene  
 Concen: 5.261 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.14 min  
 Lab File: VX018387.D  
 Acq: 14 Sep 2020 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 5.2   | 18.0  | 54.0# |
| 77      | 1.0   | 24.4  | 36.6# |

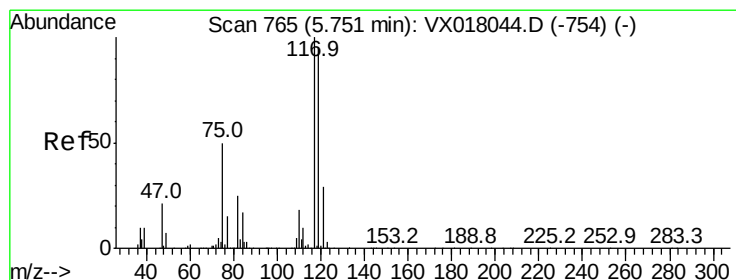
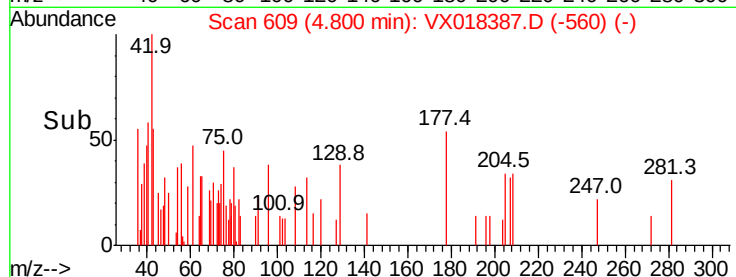
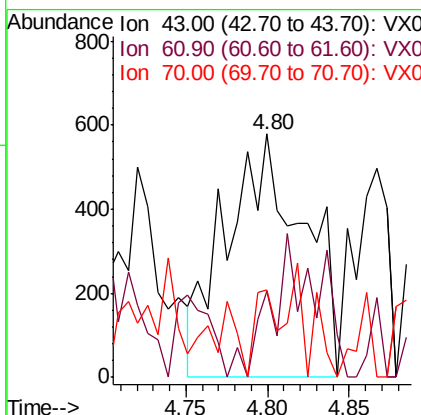
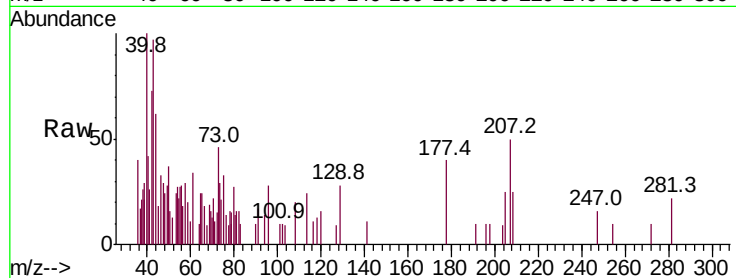




#37  
Ethyl Acetate  
Concen: 0.251 ug/l  
RT: 4.80 min Scan# 609  
Delta R.T. -0.00 min  
Lab File: VX018387.D  
Acq: 14 Sep 2020 16:35

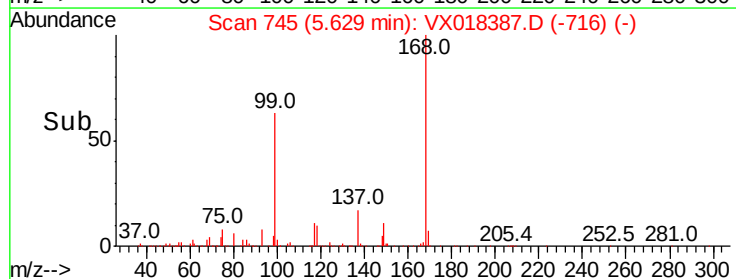
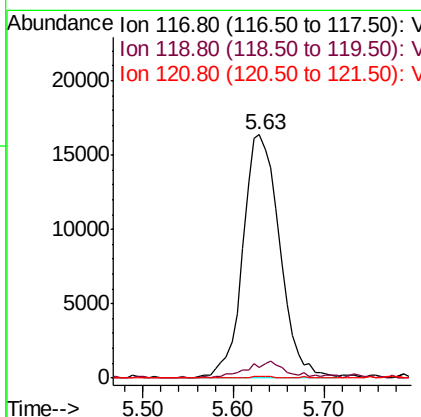
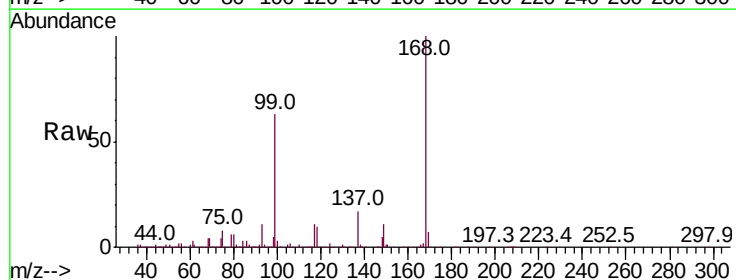
Instrument :  
MSVOA\_X  
ClientSampled :

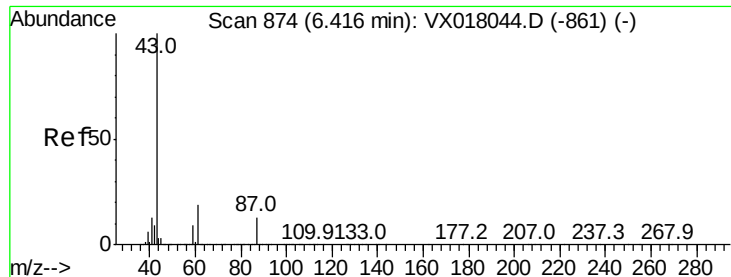
Tot Ion: 43 Resp: 1909  
Ion Ratio Lower Upper  
43 100  
61 34.8 11.3 16.9#  
70 10.0 8.2 12.4



#38  
Carbon Tetrachloride  
Concen: 6.234 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. -0.12 min  
Lab File: VX018387.D  
Acq: 14 Sep 2020 16:35

Tgt Ion: 117 Resp: 46043  
Ion Ratio Lower Upper  
117 100  
119 4.3 75.8 113.6#  
121 0.6 23.4 35.0#





#43

Isopropyl Acetate

Concen: 9.989 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Instrument :

MSVOA\_X

ClientSampleId :

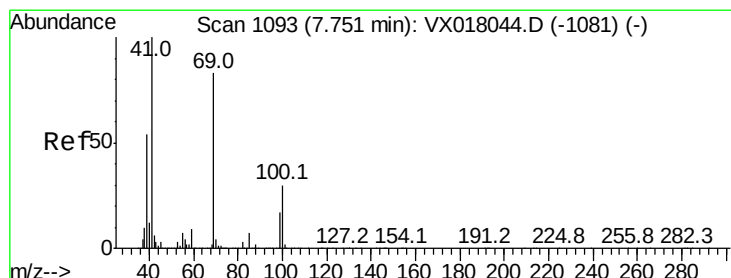
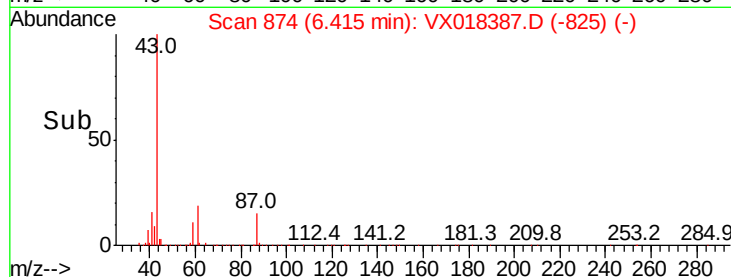
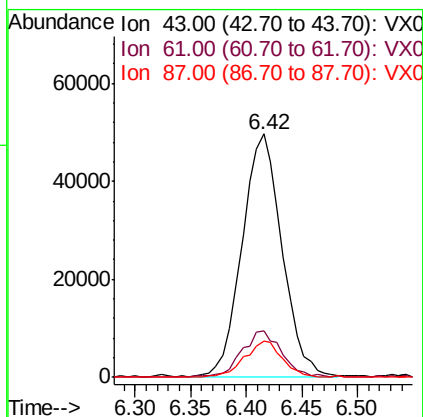
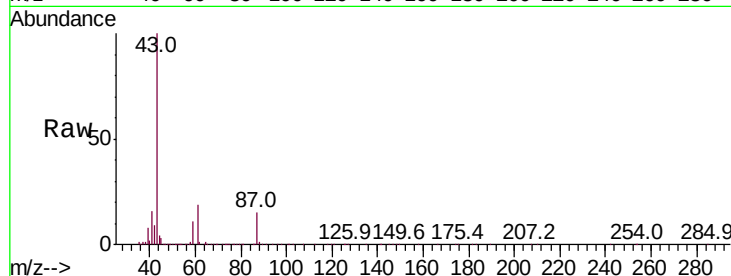
Tot Ion: 43 Resp: 122807

Ion Ratio Lower Upper

43 100

61 19.5 15.7 23.5

87 14.3 10.3 15.5



#48

Methyl methacrylate

Concen: 1.283 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.10 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

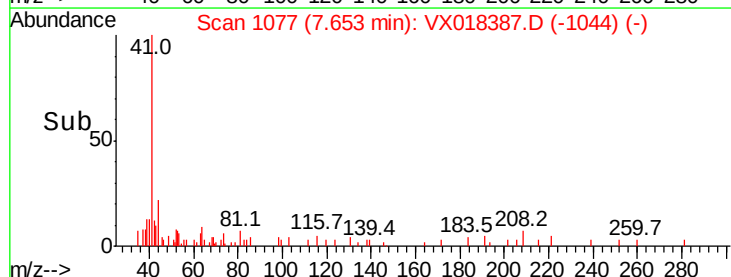
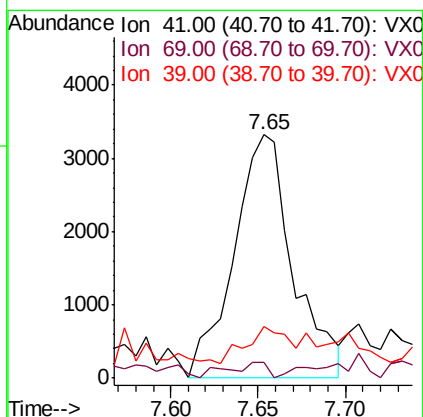
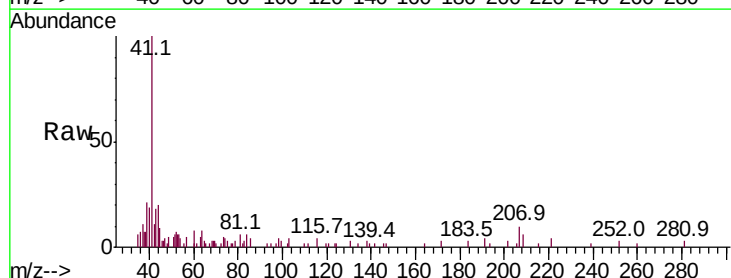
Tgt Ion: 41 Resp: 7852

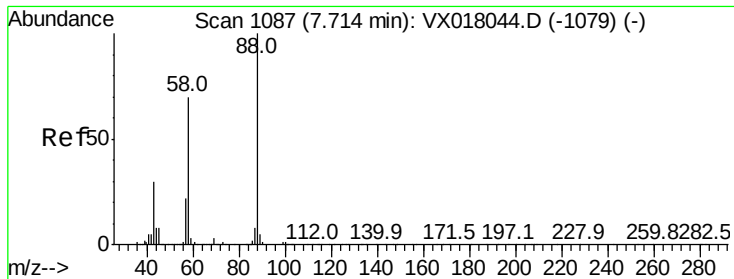
Ion Ratio Lower Upper

41 100

69 2.0 65.5 98.3#

39 0.0 44.5 66.7#





#49

1,4-Dioxane

Concen: 2.670 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

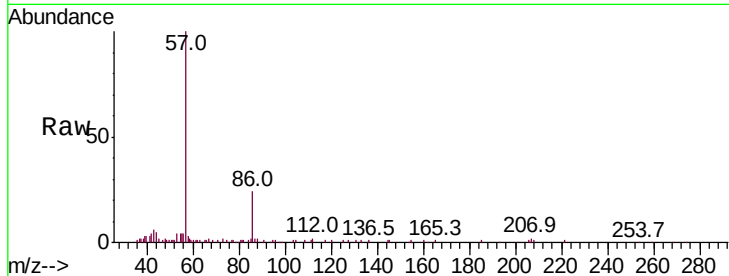
Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 88 Resp: 296

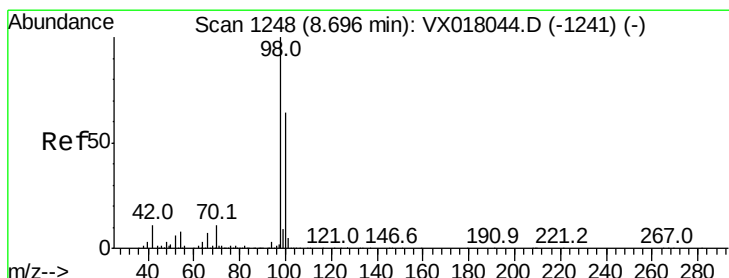
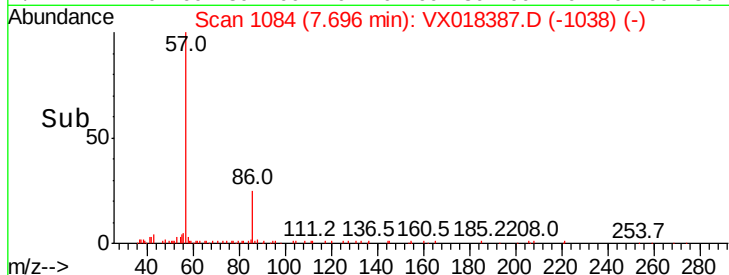
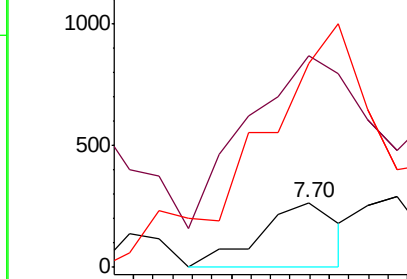
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 0.0   | 27.4  | 41.0# |
| 58  | 630.7 | 56.4  | 84.6# |



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.296 ug/l

RT: 8.70 min Scan# 1248

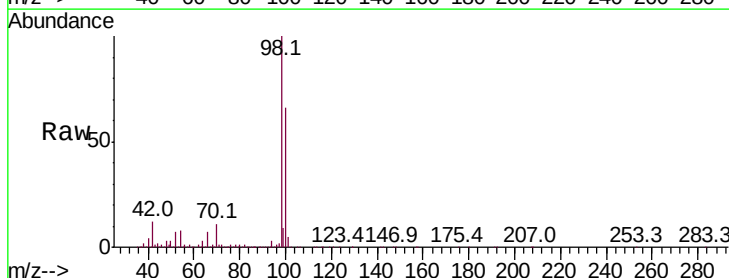
Delta R.T. -0.00 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

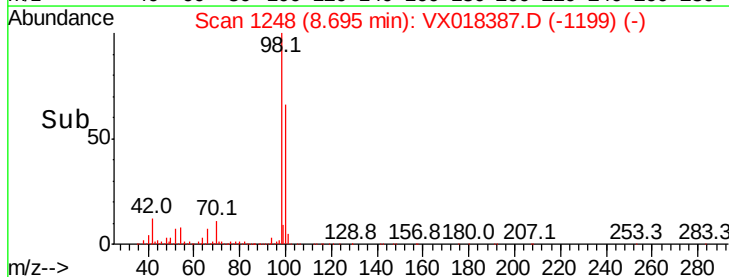
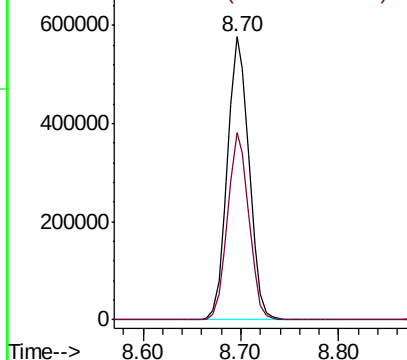
Tgt Ion: 98 Resp: 888456

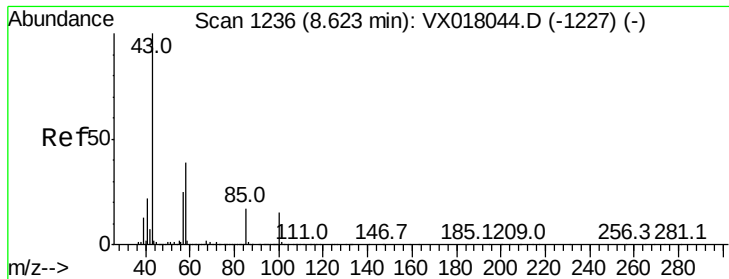
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 64.9  | 52.2  | 78.4  |



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 16.361 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Instrument :

MSVOA\_X

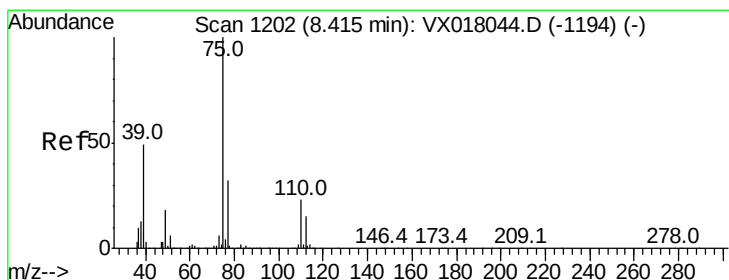
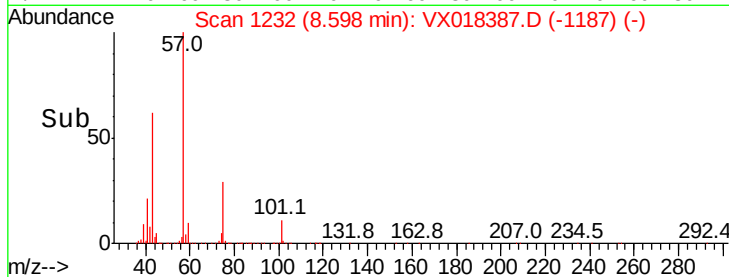
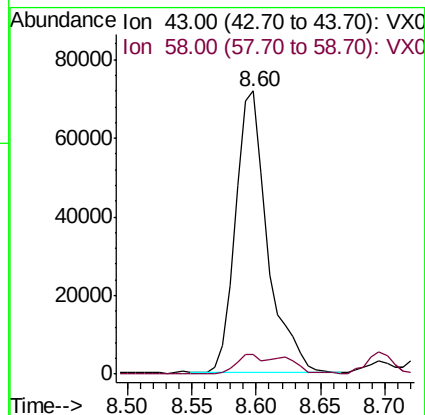
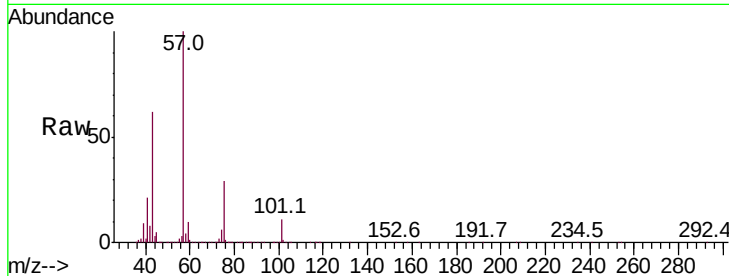
ClientSampleId :

Tot Ion: 43 Resp: 124249

Ion Ratio Lower Upper

43 100

58 6.6 30.7 46.1#



#54

cis-1,3-Dichloropropene

Concen: 5.909 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

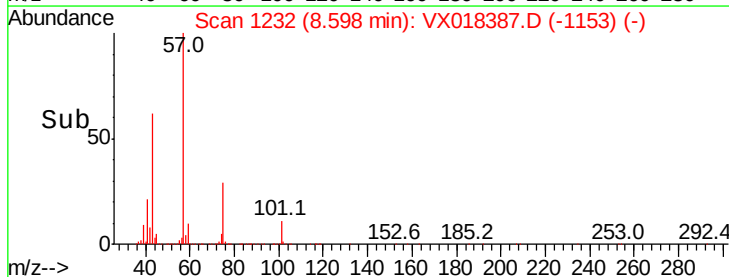
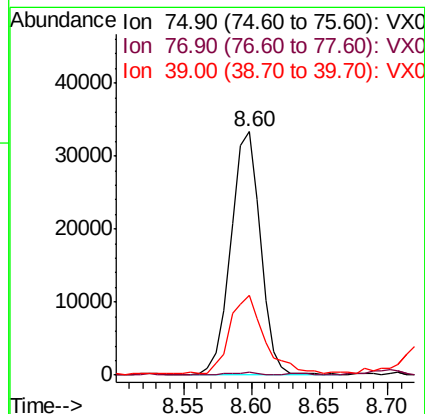
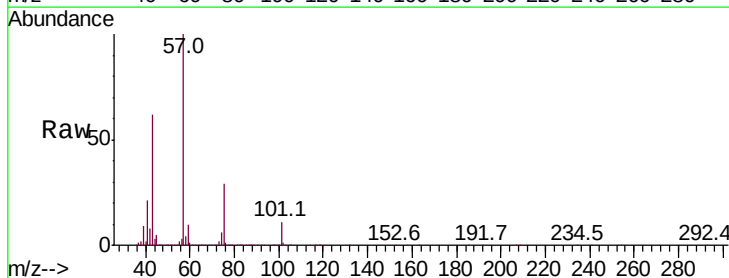
Tgt Ion: 75 Resp: 50557

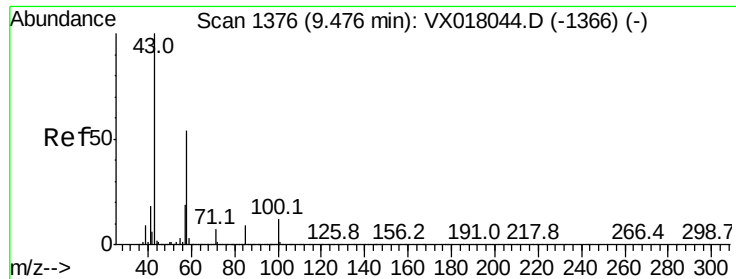
Ion Ratio Lower Upper

75 100

77 1.5 25.8 38.8#

39 31.4 38.8 58.2#

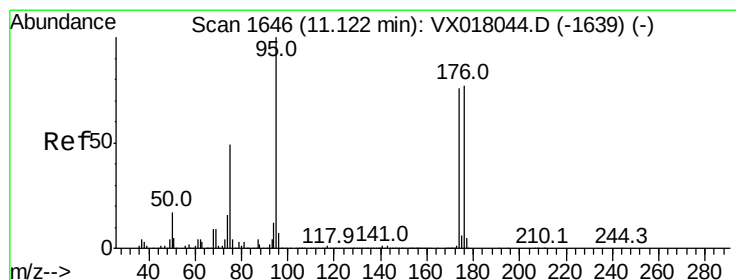
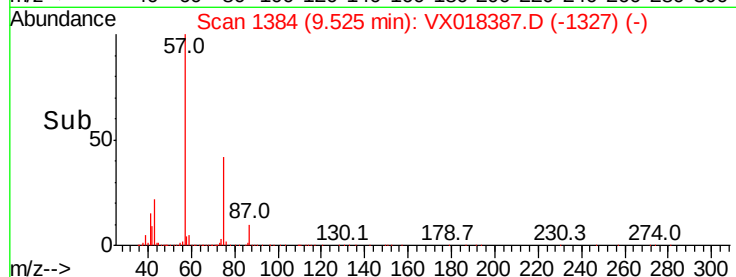
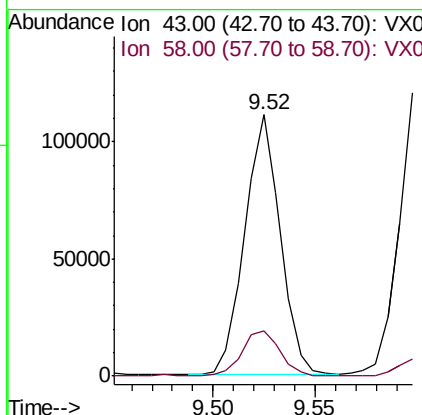
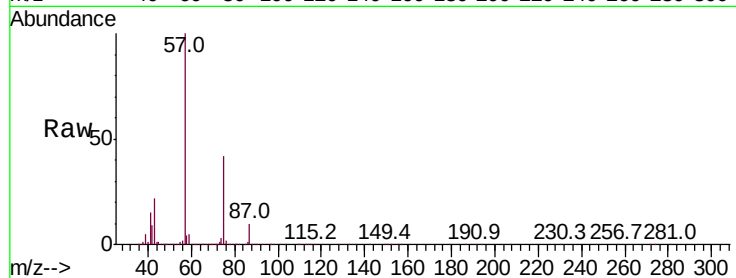




#59  
2-Hexanone  
Concen: 23.194 ug/l  
RT: 9.52 min Scan# 1384  
Delta R.T. 0.05 min  
Lab File: VX018387.D  
Acq: 14 Sep 2020 16:35

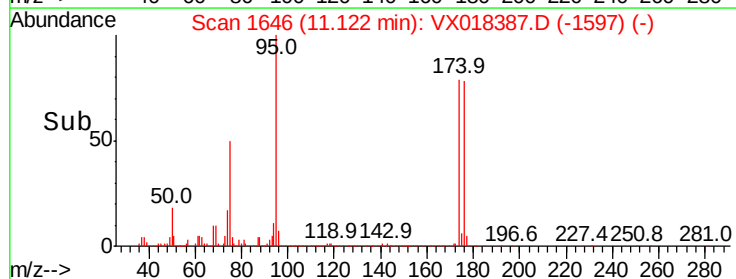
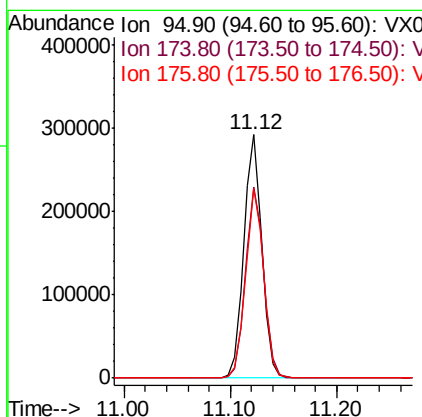
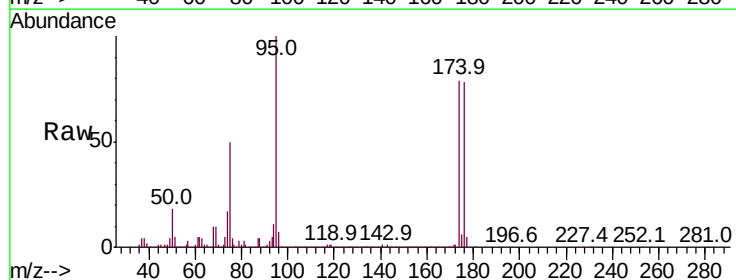
Instrument :  
MSVOA\_X  
ClientSampled :

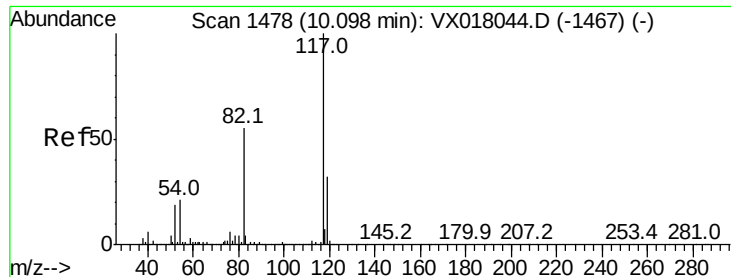
Tot Ion: 43 Resp: 133933  
Ion Ratio Lower Upper  
43 100  
58 18.3 26.6 79.7#



#62  
4-Bromofluorobenzene  
Concen: 49.154 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX018387.D  
Acq: 14 Sep 2020 16:35

Tgt Ion: 95 Resp: 348548  
Ion Ratio Lower Upper  
95 100  
174 79.3 0.0 160.2  
176 77.9 0.0 155.8

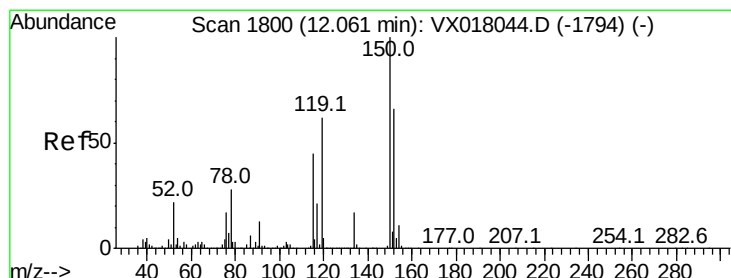
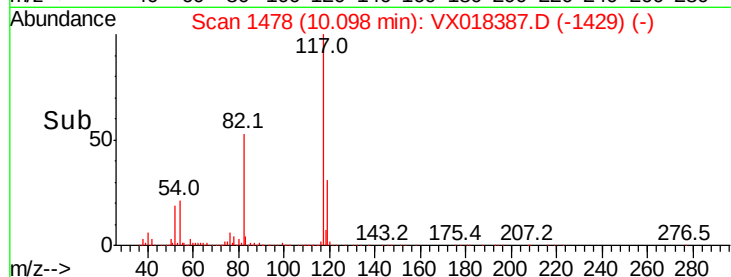
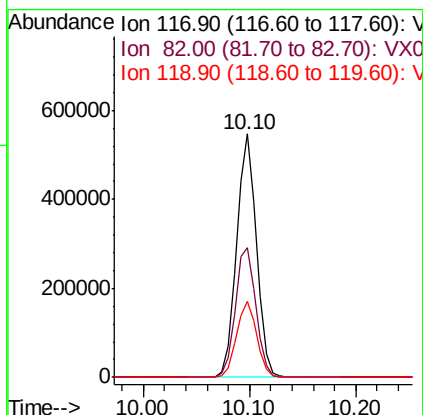
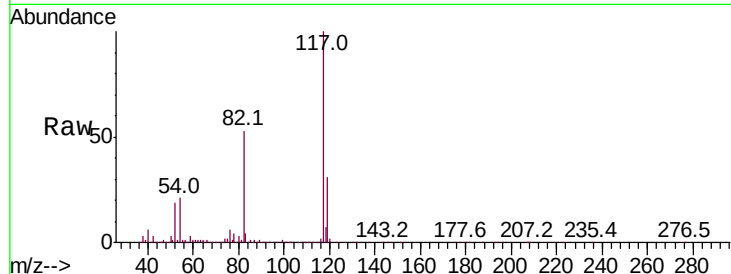




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX018387.D  
Acq: 14 Sep 2020 16:35

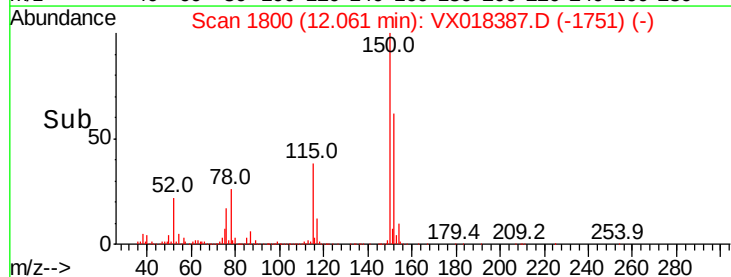
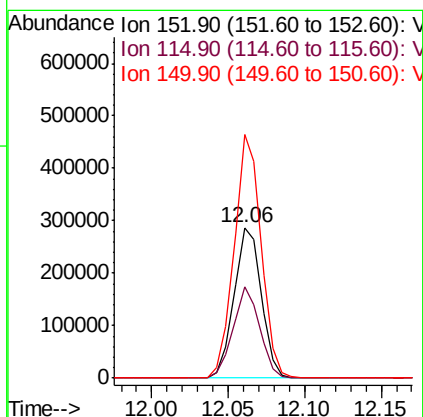
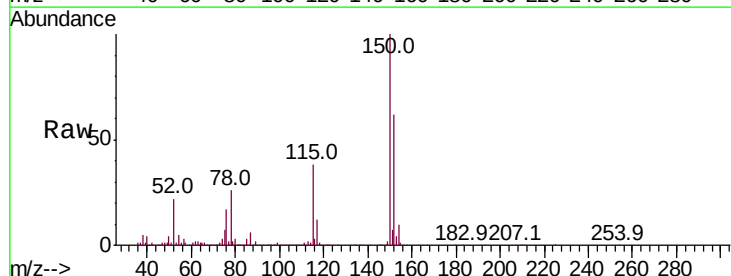
Instrument :  
MSVOA\_X  
ClientSampleId :

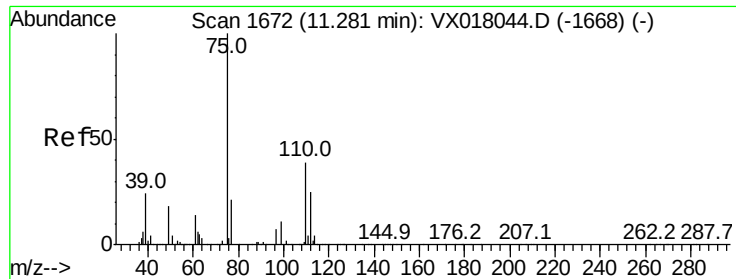
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.1  | 44.2  | 66.2  |
| 119     | 31.0  | 25.7  | 38.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX018387.D  
Acq: 14 Sep 2020 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.1  | 41.5  | 124.5 |
| 150     | 158.9 | 0.0   | 343.8 |





#76

1,2,3-Trichloropropane

Concen: 22.849 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Instrument :

MSVOA\_X

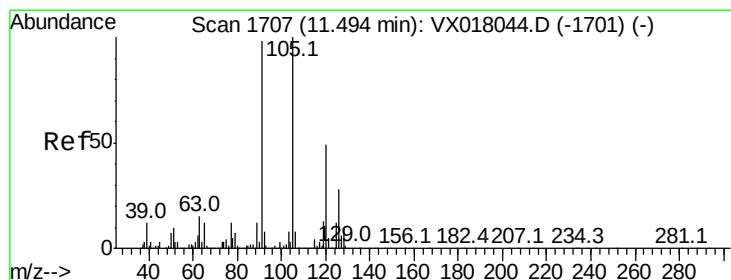
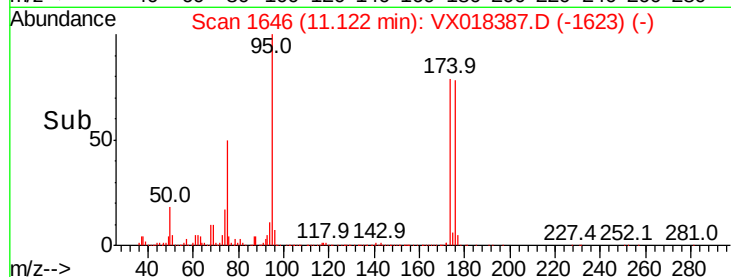
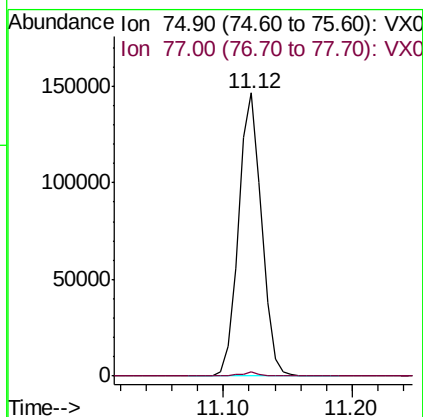
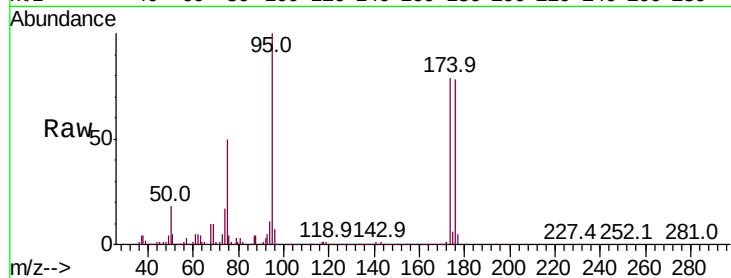
ClientSampleId :

Tot Ion: 75 Resp: 180476

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.2#



#80

1,3,5-Trimethylbenzene

Concen: 0.407 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX018387.D

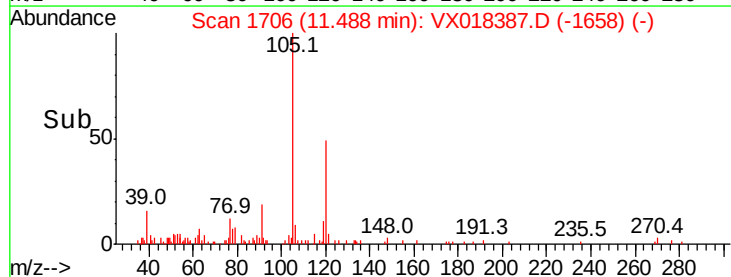
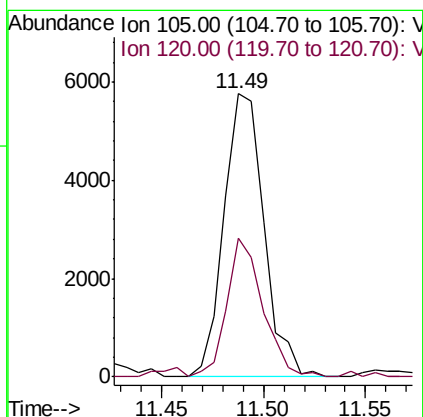
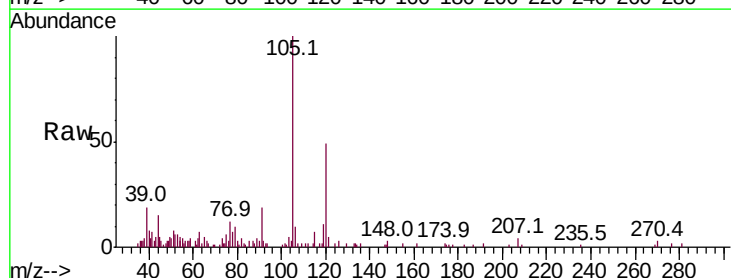
Acq: 14 Sep 2020 16:35

Tgt Ion: 105 Resp: 7840

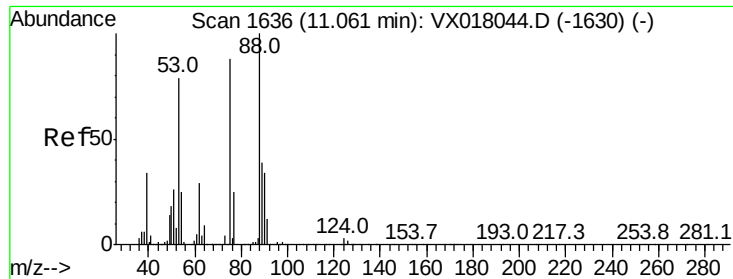
Ion Ratio Lower Upper

105 100

120 43.8 24.1 72.2







#81

trans-1,4-Dichloro-2-butene

Concen: 61.710 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018387.D

Acq: 14 Sep 2020 16:35

Instrument :

MSVOA\_X

ClientSampleId :

Tot Ion: 75 Resp: 180476

Ion Ratio Lower Upper

75 100

53 0.3 74.7 112.1#

89 0.2 36.6 54.8#

