

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX121020\  
 Data File : VX019847.D  
 Acq On : 11 Dec 2020 00:48  
 Operator : JC/MD  
 Sample : L4983-06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TR1-B-TOP

Quant Time: Dec 11 03:04:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 04 15:32:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 313696   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 522923   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.09 | 117  | 474381   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 207662   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   |        | 6.03  | 65       | 200591   | 48.65 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =     | 97.30% |          |
| 35) Dibromofluoromethane    |        | 5.46  | 113      | 159321   | 47.14 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =     | 94.28% |          |
| 50) Toluene-d8              |        | 8.70  | 98       | 634663   | 49.19 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =     | 98.38% |          |
| 62) 4-Bromofluorobenzene    |        | 11.12 | 95       | 224709   | 45.76 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =     | 91.52% |          |

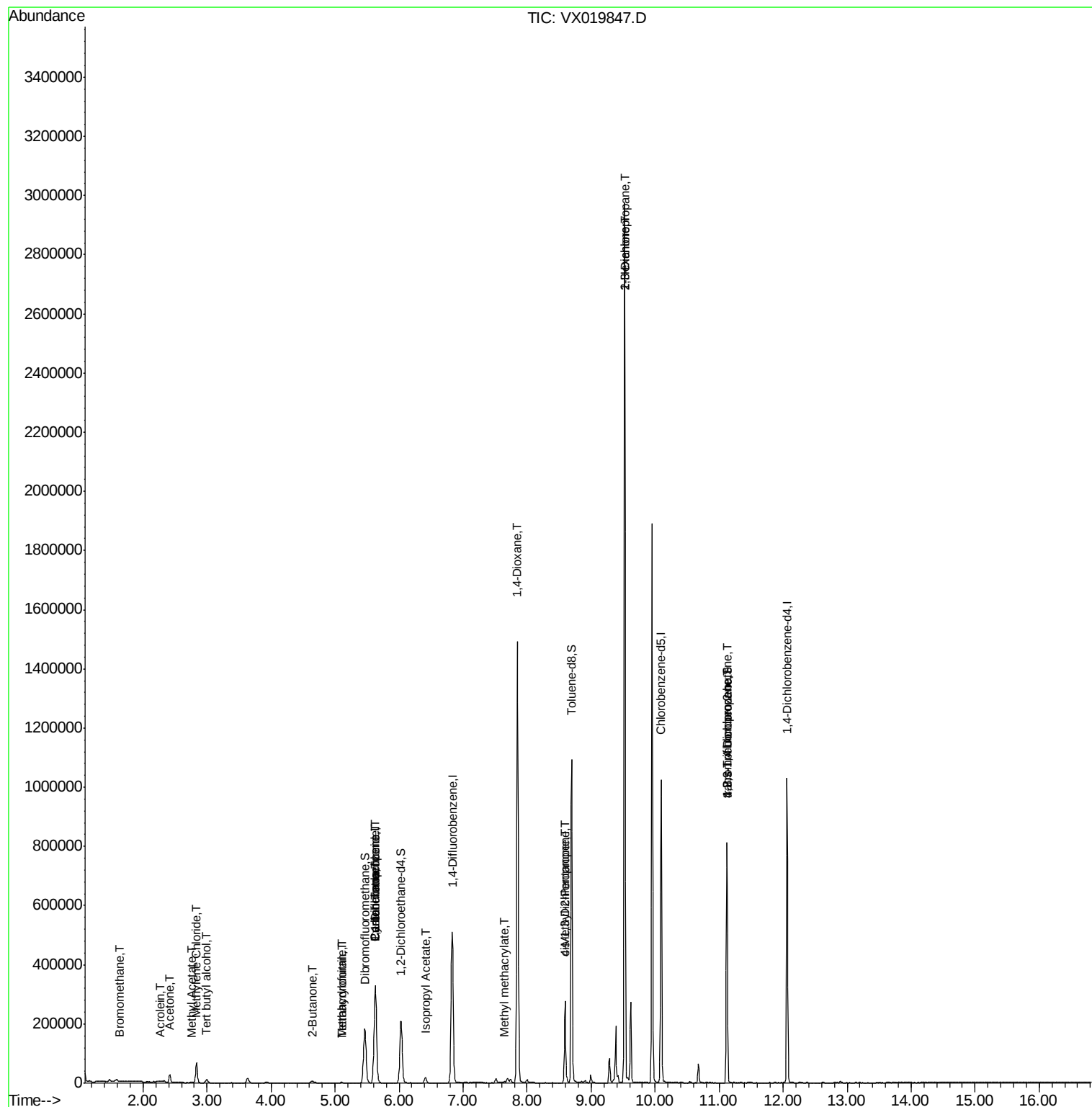
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.63  | 94   | 628      | 0.531  | ug/l # | 77     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 6877     | 5.558  | ug/l # | 81     |
| 13) Acrolein                   | 2.27  | 56   | 252      | 0.554  | ug/l # | 56     |
| 16) Acetone                    | 2.42  | 43   | 27222    | 17.566 | ug/l   | 99     |
| 18) Methyl Acetate             | 2.75  | 43   | 2057     | 0.542  | ug/l   | 95     |
| 20) Methylene Chloride         | 2.83  | 84   | 33290    | 8.221  | ug/l   | 99     |
| 25) 2-Butanone                 | 4.64  | 43   | 4276     | 1.796  | ug/l   | 90     |
| 29) Tetrahydrofuran            | 5.10  | 42   | 1161     | 0.757  | ug/l # | 74     |
| 31) Cyclohexane                | 5.62  | 56   | 5980     | 1.166  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.62  | 75   | 24086    | 5.097  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 30294    | 6.547  | ug/l # | 17     |
| 41) Methacrylonitrile          | 5.11  | 41   | 784      | 0.299  | ug/l # | 43     |
| 43) Isopropyl Acetate          | 6.41  | 43   | 23981    | 3.092  | ug/l   | 99     |
| 48) Methyl methacrylate        | 7.65  | 41   | 6432     | 1.686  | ug/l # | 10     |
| 49) 1,4-Dioxane                | 7.85  | 88   | 238      | 2.575  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 85932    | 18.146 | ug/l # | 47     |
| 54) cis-1,3-Dichloropropene    | 8.59  | 75   | 45337    | 7.779  | ug/l # | 60     |
| 57) 1,3-Dichloropropane        | 9.52  | 76   | 26589    | 4.280  | ug/l # | 42     |
| 59) 2-Hexanone                 | 9.52  | 43   | 321620   | 87.616 | ug/l # | 46     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 106153   | 22.792 | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 106153   | 65.887 | ug/l # | 12     |

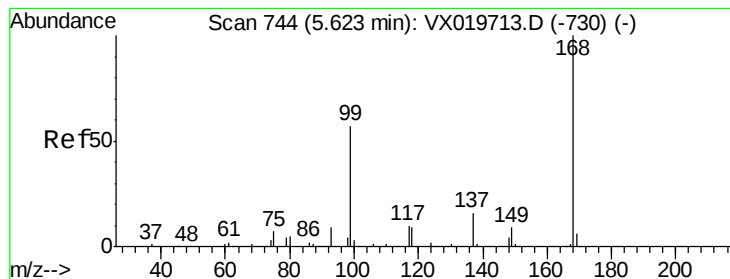
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampleId :  
TR1-B-TOP

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 04 15:32:53 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

Instrument :

MSVOA\_X

ClientSampled :

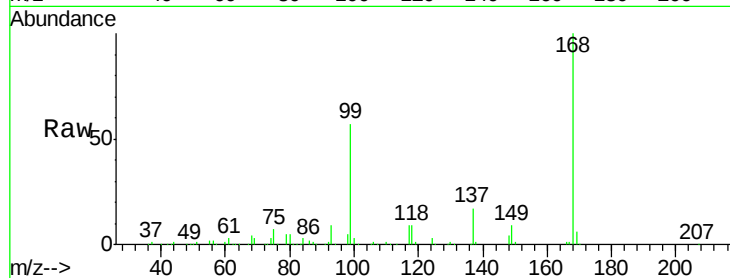
TR1-B-TOP

Tgt Ion:168 Resp: 313696

Ion Ratio Lower Upper

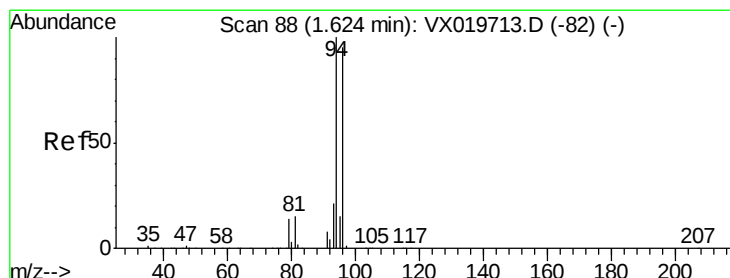
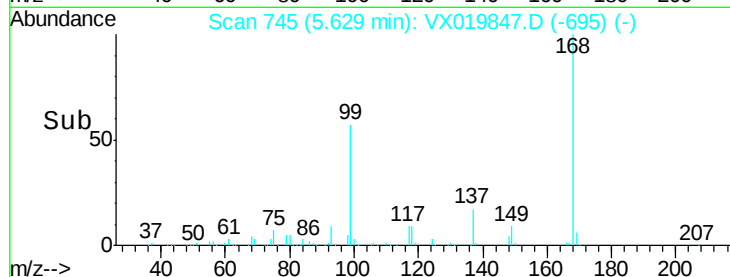
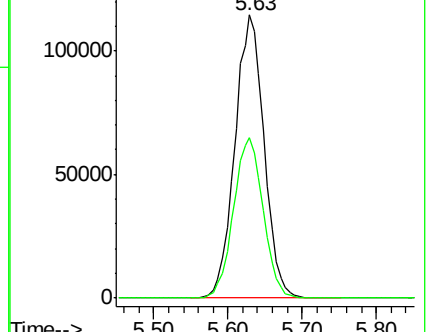
168 100

99 56.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.531 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019847.D

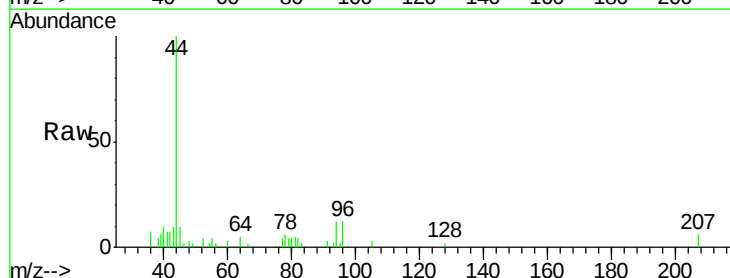
Acq: 11 Dec 2020 00:48

Tgt Ion: 94 Resp: 628

Ion Ratio Lower Upper

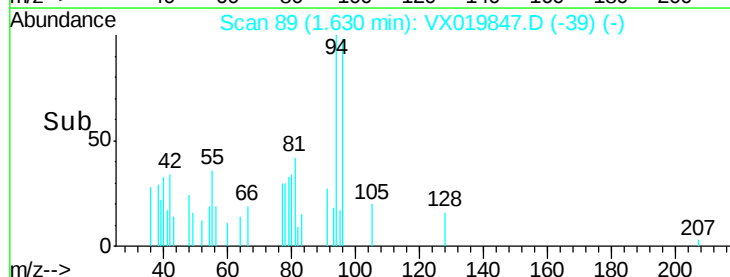
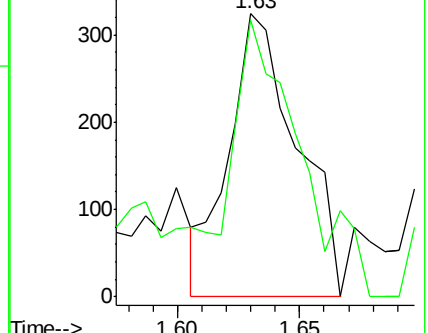
94 100

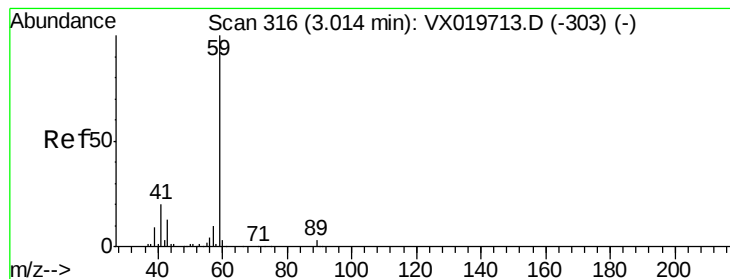
96 73.5 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#11

Tert butyl alcohol

Concen: 5.558 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

Instrument :

MSVOA\_X

ClientSampleId :

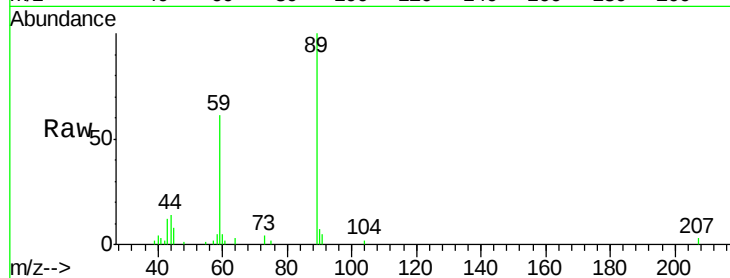
TR1-B-TOP

Tgt Ion: 59 Resp: 6877

Ion Ratio Lower Upper

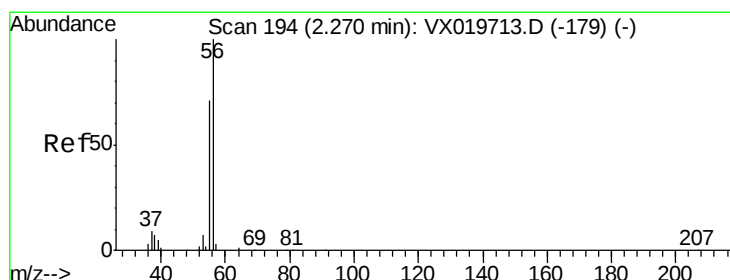
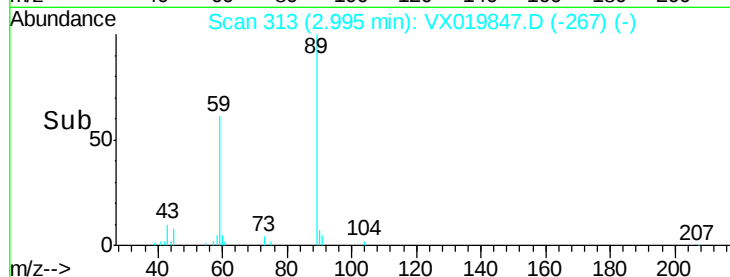
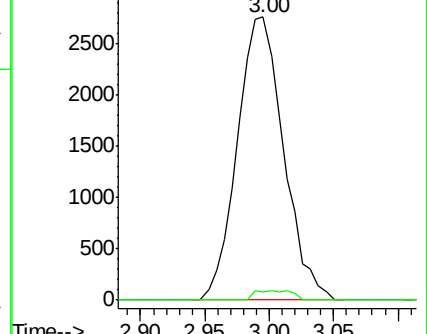
59 100

57 2.6 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.554 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019847.D

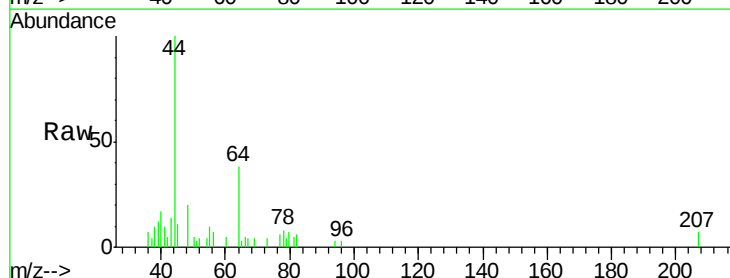
Acq: 11 Dec 2020 00:48

Tgt Ion: 56 Resp: 252

Ion Ratio Lower Upper

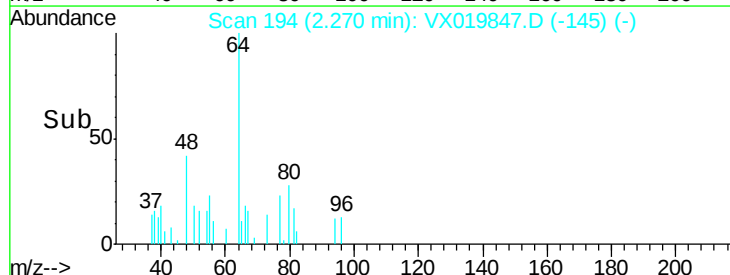
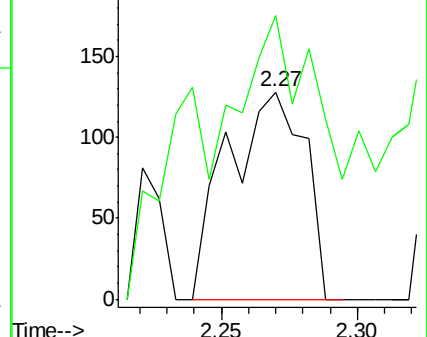
56 100

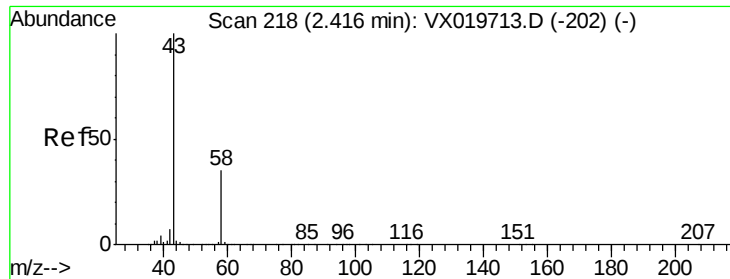
55 106.3 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 17.566 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

Instrument :

MSVOA\_X

ClientSampleId :

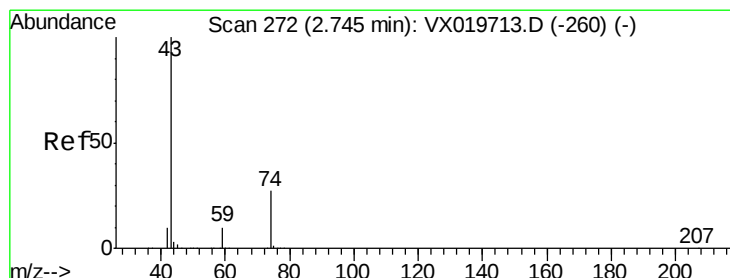
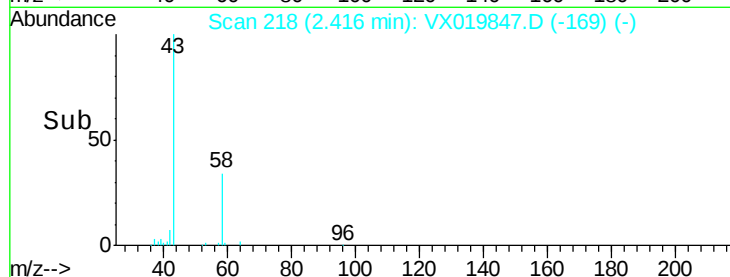
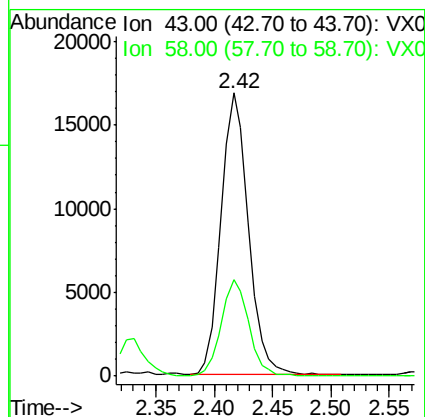
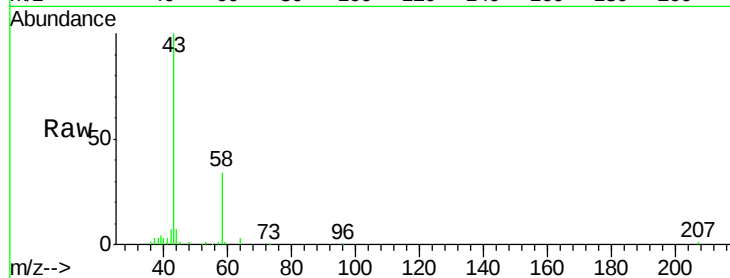
TR1-B-TOP

Tgt Ion: 43 Resp: 27222

Ion Ratio Lower Upper

43 100

58 34.1 27.8 41.8



#18

Methyl Acetate

Concen: 0.542 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019847.D

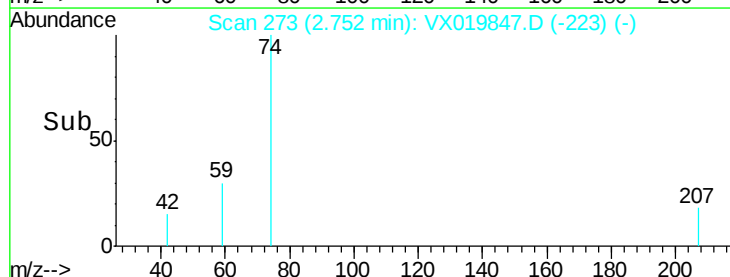
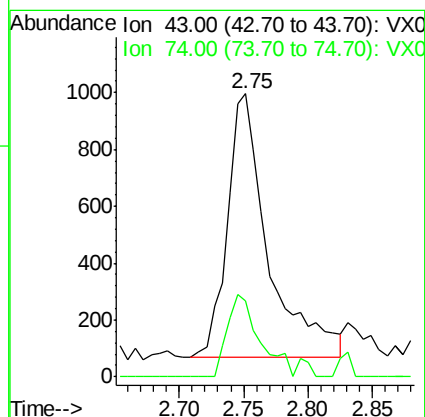
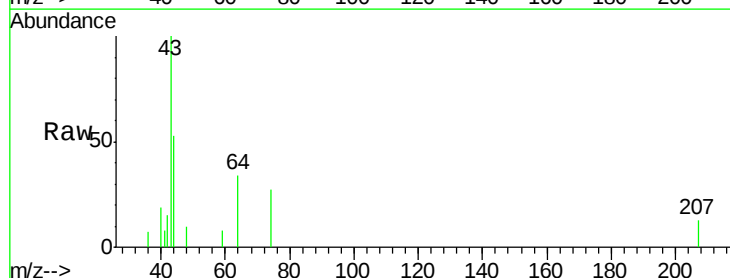
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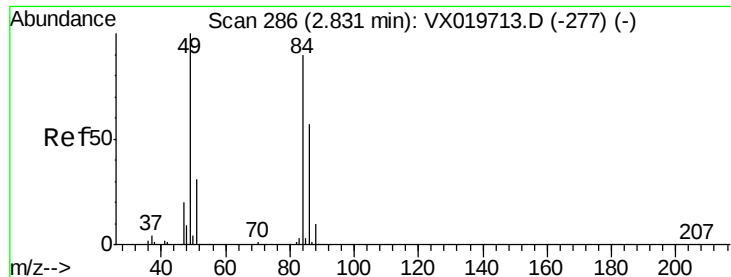
Tgt Ion: 43 Resp: 2057

Ion Ratio Lower Upper

43 100

74 24.7 21.9 32.9

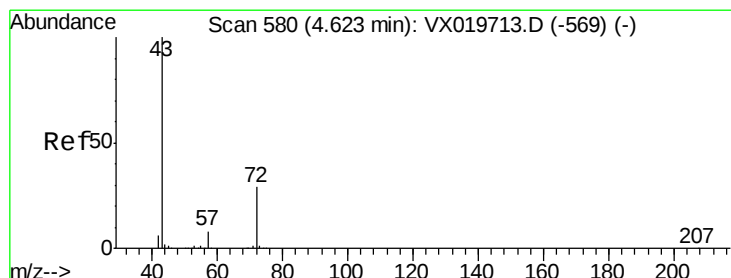
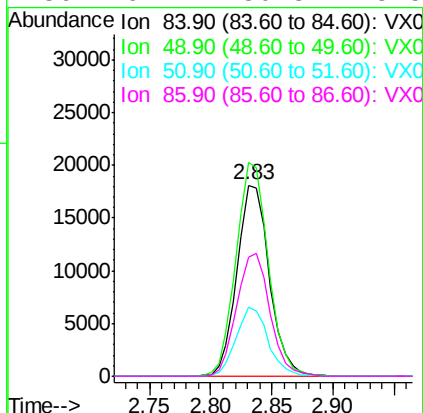
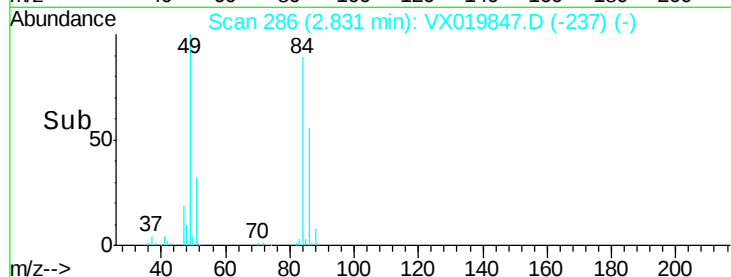
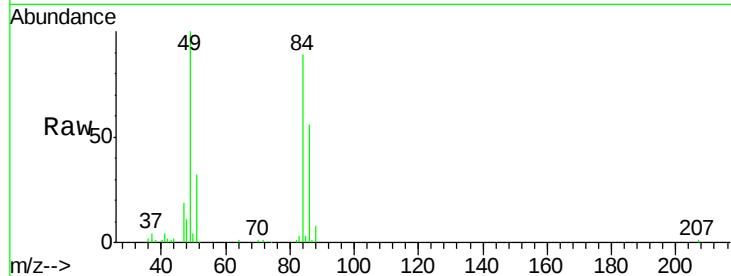




#20  
Methylene Chloride  
Concen: 8.221 ug/l  
RT: 2.83 min Scan# 286  
Delta R.T. 0.00 min  
Lab File: VX019847.D  
Acq: 11 Dec 2020 00:48

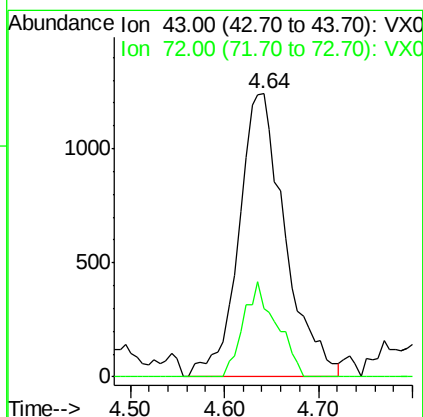
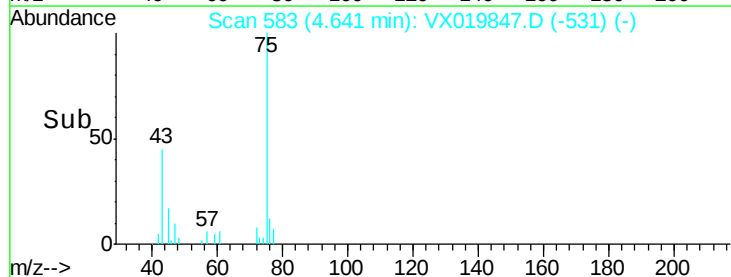
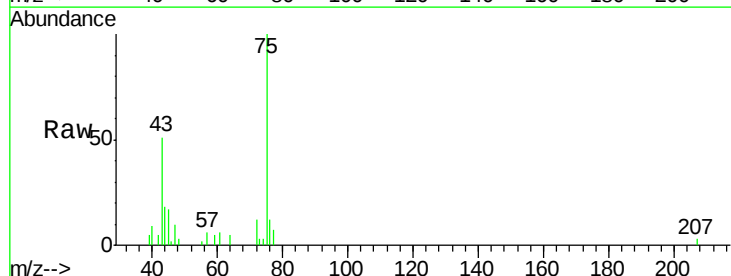
Instrument :  
MSVOA\_X  
ClientSampleId :  
TR1-B-TOP

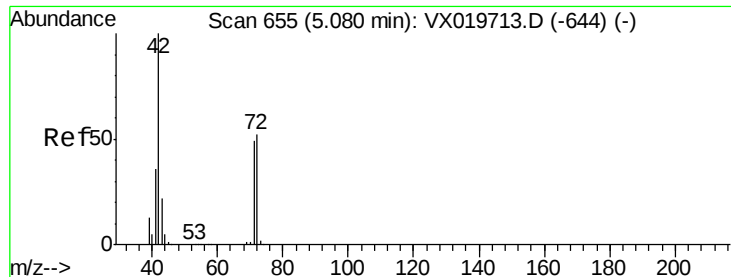
Tgt Ion: 84 Resp: 33290  
Ion Ratio Lower Upper  
84 100  
49 111.7 88.6 132.8  
51 35.9 27.0 40.6  
86 62.1 50.3 75.5



#25  
2-Butanone  
Concen: 1.796 ug/l  
RT: 4.64 min Scan# 583  
Delta R.T. 0.02 min  
Lab File: VX019847.D  
Acq: 11 Dec 2020 00:48

Tgt Ion: 43 Resp: 4276  
Ion Ratio Lower Upper  
43 100  
72 24.0 23.7 35.5

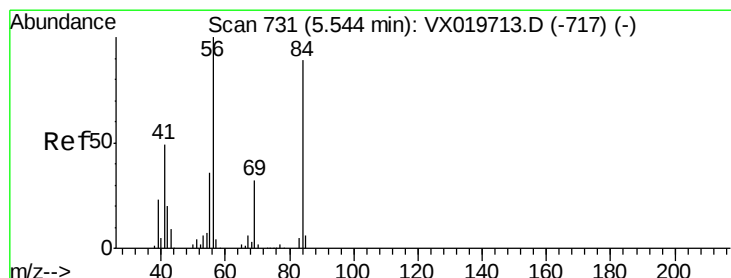
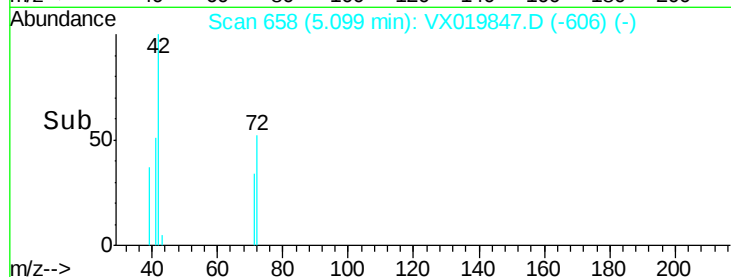
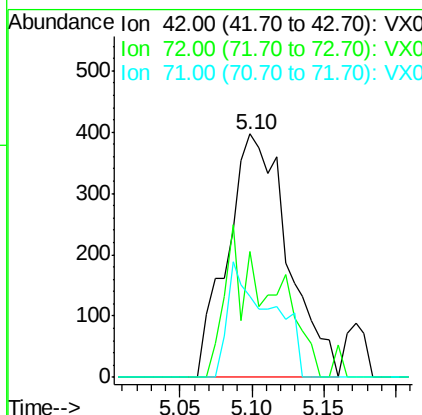
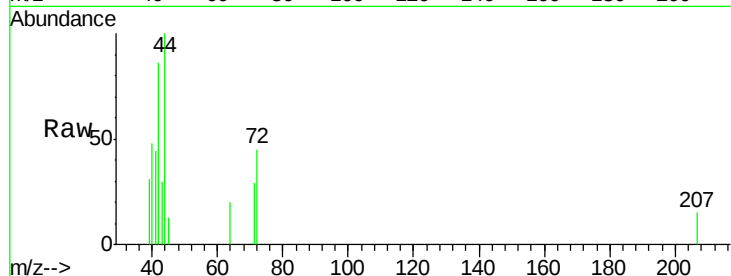




#29  
Tetrahydrofuran  
Concen: 0.757 ug/l  
RT: 5.10 min Scan# 658  
Delta R.T. 0.02 min  
Lab File: VX019847.D  
Acq: 11 Dec 2020 00:48

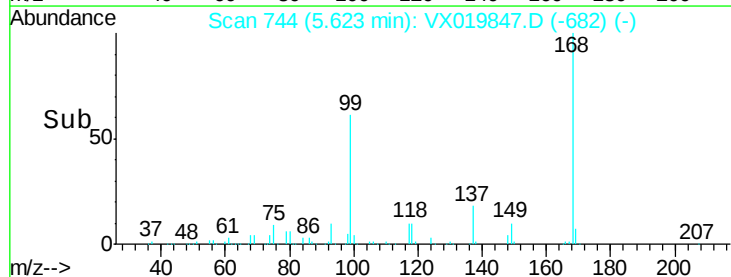
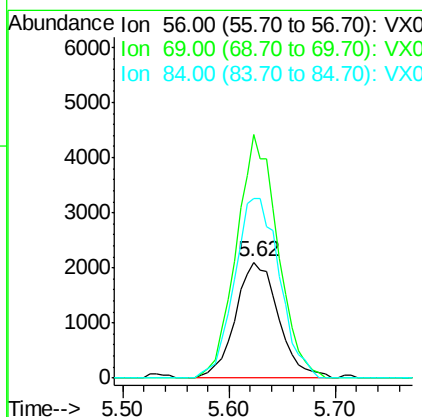
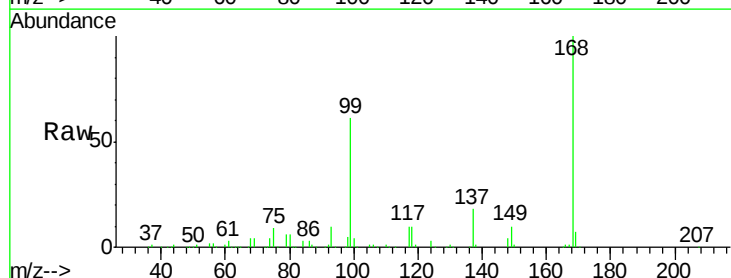
Instrument :  
MSVOA\_X  
ClientSampled :  
TR1-B-TOP

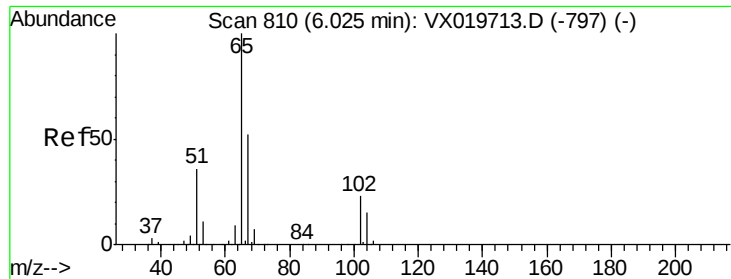
Tgt Ion: 42 Resp: 1161  
Ion Ratio Lower Upper  
42 100  
72 31.1 41.7 62.5#  
71 33.9 38.4 57.6#



#31  
Cyclohexane  
Concen: 1.166 ug/l  
RT: 5.62 min Scan# 744  
Delta R.T. 0.08 min  
Lab File: VX019847.D  
Acq: 11 Dec 2020 00:48

Tgt Ion: 56 Resp: 5980  
Ion Ratio Lower Upper  
56 100  
69 210.5 25.3 37.9#  
84 154.7 71.4 107.0#

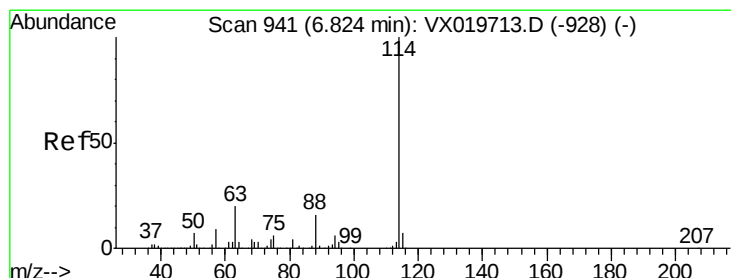
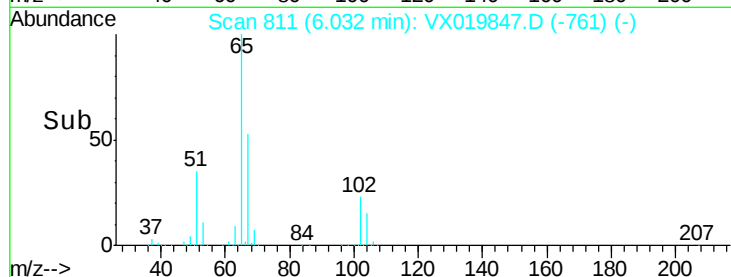
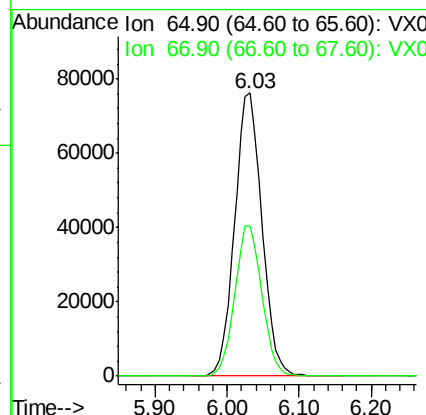
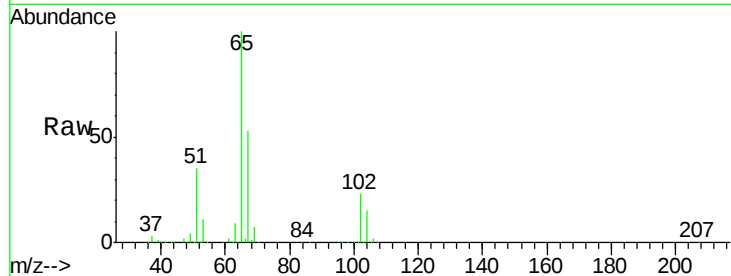




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.653 ug/l  
 RT: 6.03 min Scan# 811  
 Delta R.T. 0.01 min  
 Lab File: VX019847.D  
 Acq: 11 Dec 2020 00:48

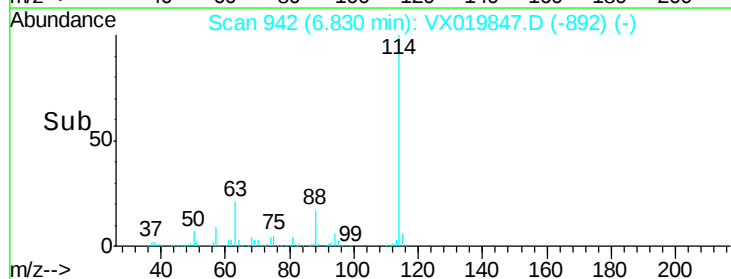
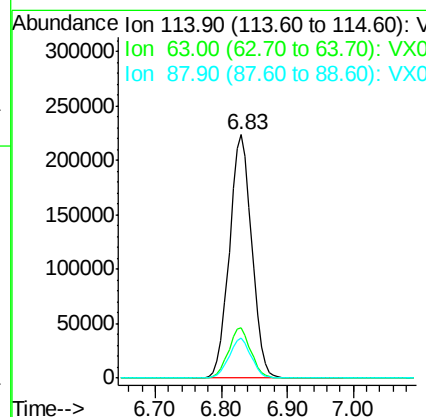
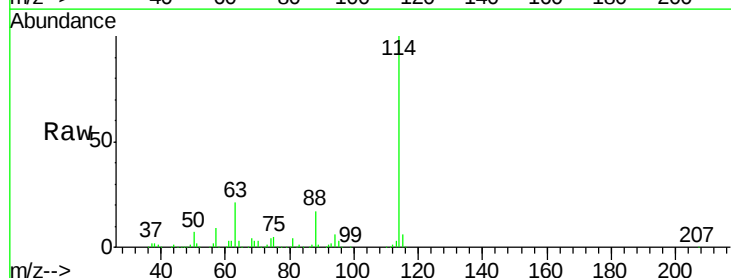
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TR1-B-TOP

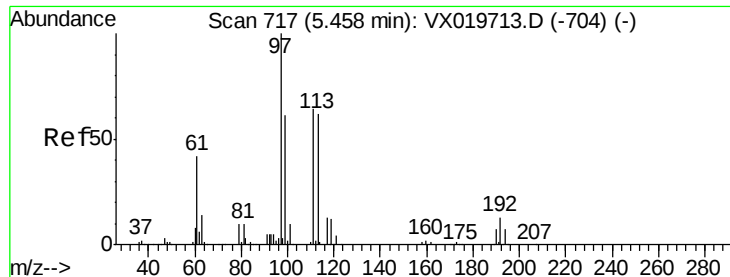
Tgt Ion: 65 Resp: 200591  
 Ion Ratio Lower Upper  
 65 100  
 67 52.8 0.0 105.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.83 min Scan# 942  
 Delta R.T. 0.01 min  
 Lab File: VX019847.D  
 Acq: 11 Dec 2020 00:48

Tgt Ion: 114 Resp: 522923  
 Ion Ratio Lower Upper  
 114 100  
 63 20.8 0.0 40.8  
 88 16.6 0.0 32.8

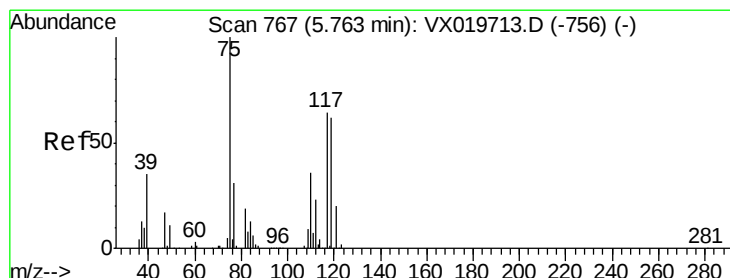
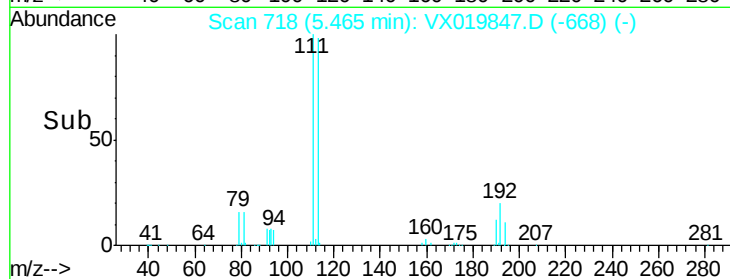
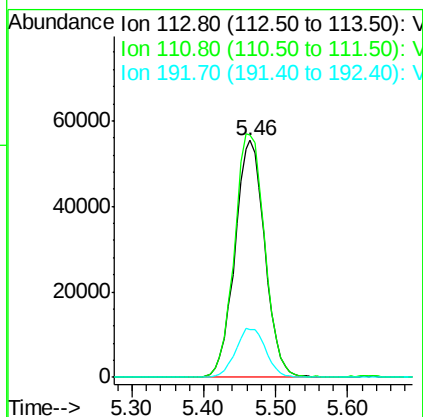
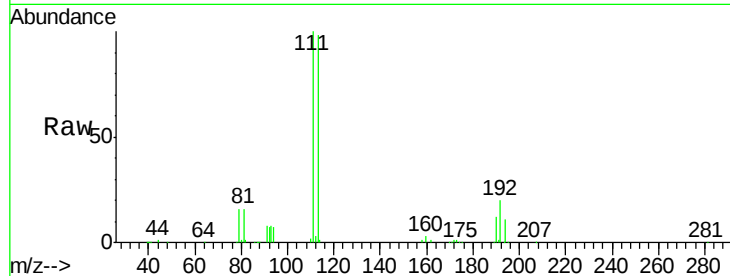




#35  
Dibromofluoromethane  
Concen: 47.142 ug/l  
RT: 5.46 min Scan# 718  
Delta R.T. 0.01 min  
Lab File: VX019847.D  
Acq: 11 Dec 2020 00:48

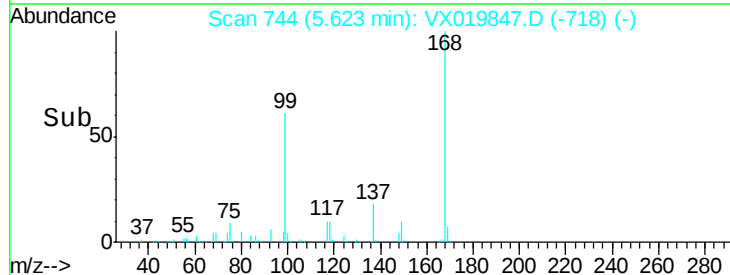
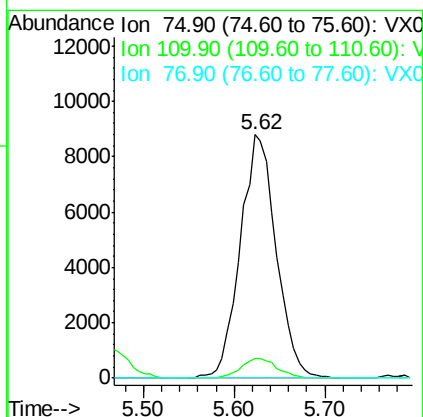
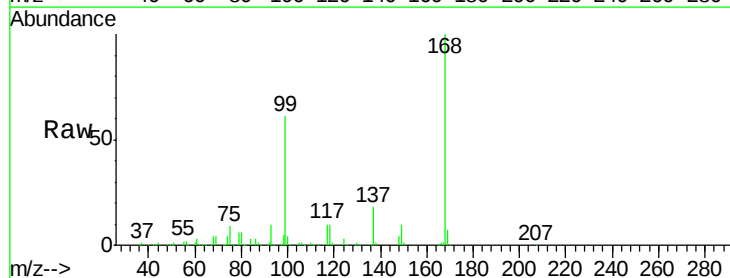
Instrument :  
MSVOA\_X  
ClientSampleId :  
TR1-B-TOP

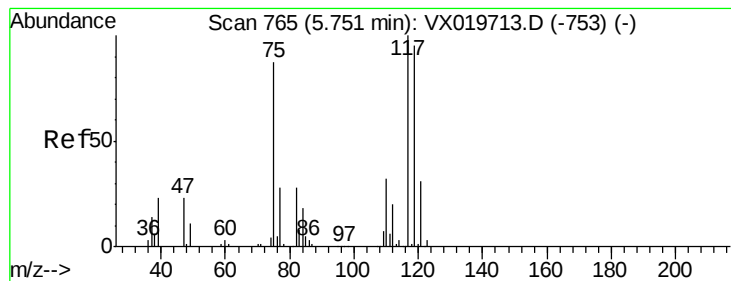
Tgt Ion:113 Resp: 159321  
Ion Ratio Lower Upper  
113 100  
111 104.4 81.9 122.9  
192 21.0 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 5.097 ug/l  
RT: 5.62 min Scan# 744  
Delta R.T. -0.14 min  
Lab File: VX019847.D  
Acq: 11 Dec 2020 00:48

Tgt Ion: 75 Resp: 24086  
Ion Ratio Lower Upper  
75 100  
110 8.1 18.1 54.4#  
77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 6.547 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

Instrument :

MSVOA\_X

ClientSampleId :

TR1-B-TOP

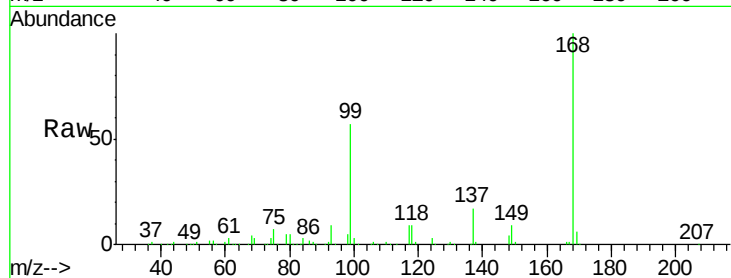
Tgt Ion:117 Resp: 30294

Ion Ratio Lower Upper

117 100

119 6.6 76.2 114.2#

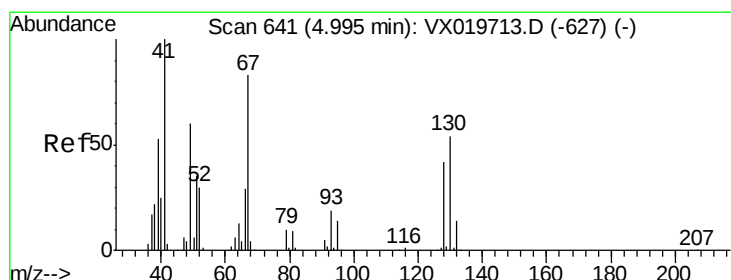
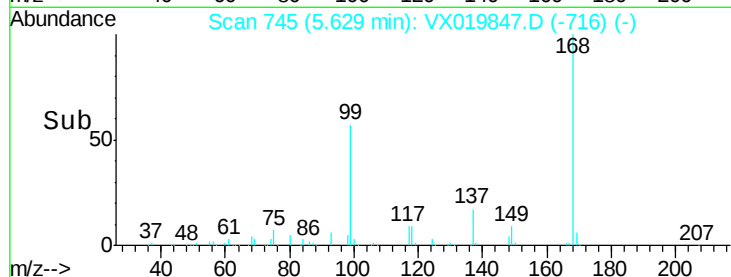
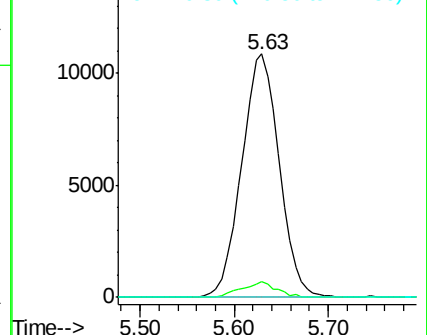
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.299 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.12 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

Tgt Ion: 41 Resp: 784

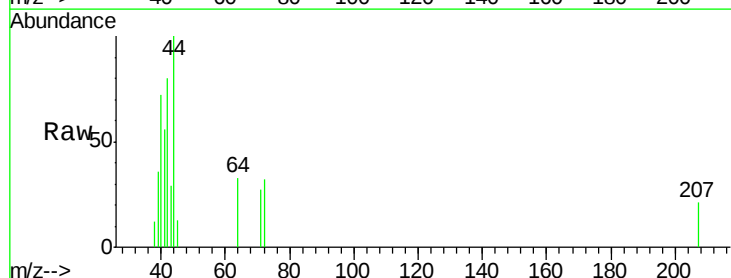
Ion Ratio Lower Upper

41 100

39 48.9 42.5 63.7

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

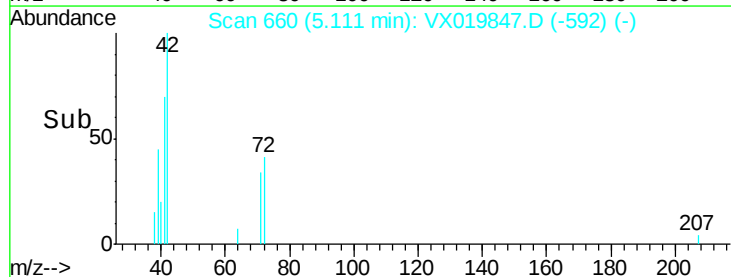
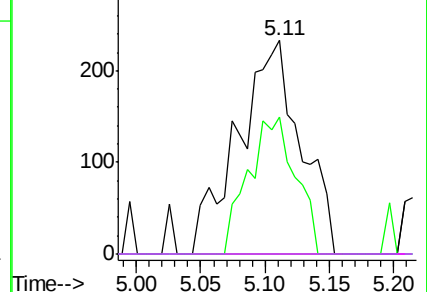


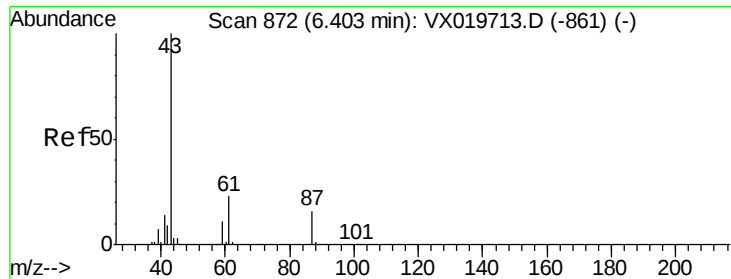
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 3.092 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

Instrument :

MSVOA\_X

ClientSampleId :

TR1-B-TOP

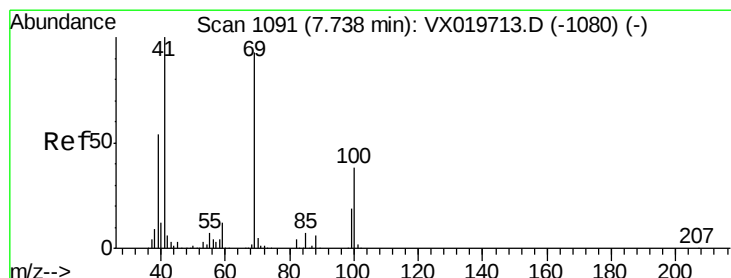
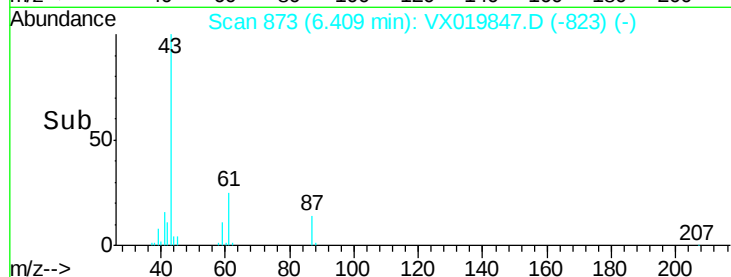
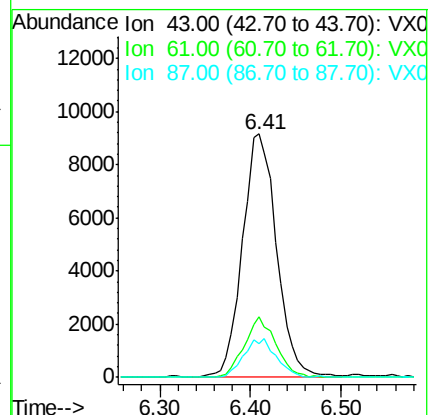
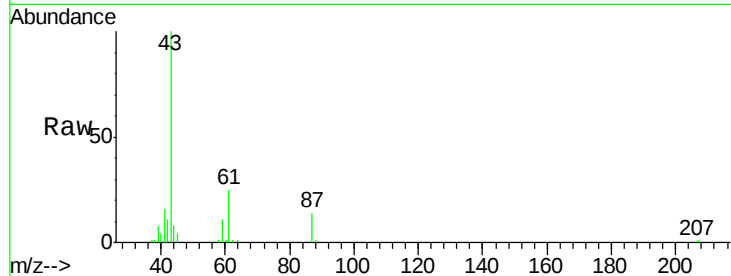
Tgt Ion: 43 Resp: 23981

Ion Ratio Lower Upper

43 100

61 22.7 18.2 27.4

87 14.8 12.5 18.7



#48

Methyl methacrylate

Concen: 1.686 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

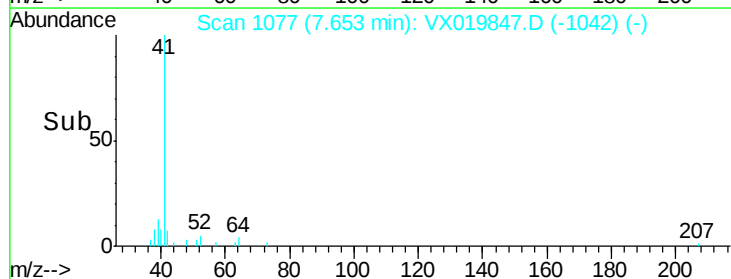
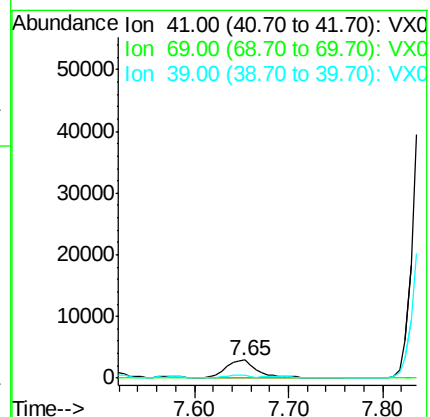
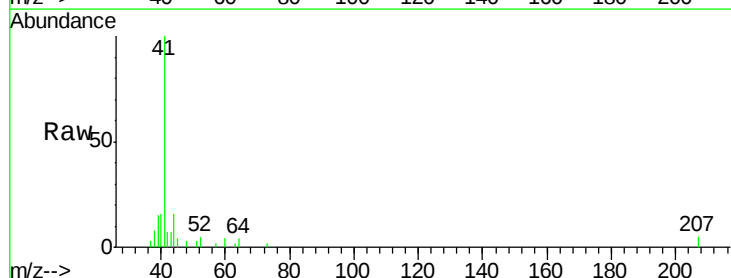
Tgt Ion: 41 Resp: 6432

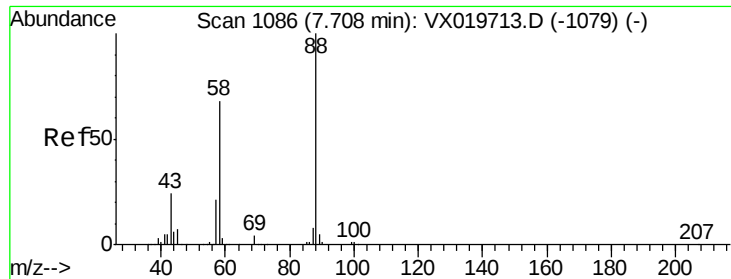
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 2.575 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.14 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

Instrument :

MSVOA\_X

ClientSampleId :

TR1-B-TOP

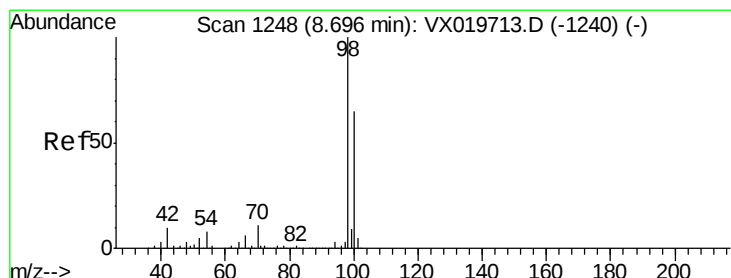
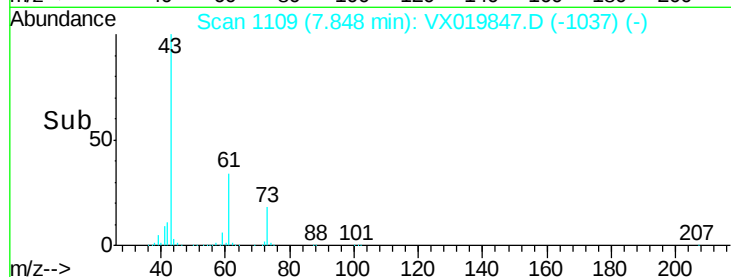
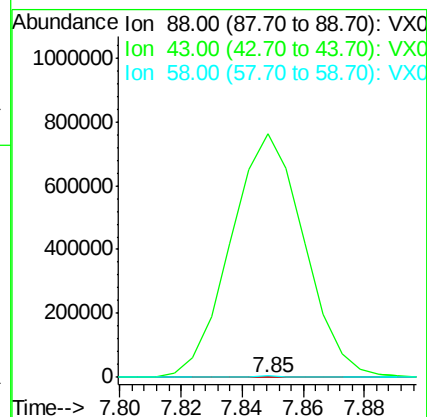
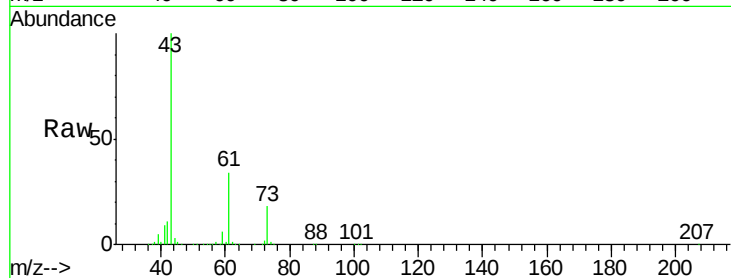
Tgt Ion: 88 Resp: 238

Ion Ratio Lower Upper

88 100

43 536394.1 23.2 34.8#

58 2727.7 55.0 82.4#



#50

Toluene-d8

Concen: 49.190 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019847.D

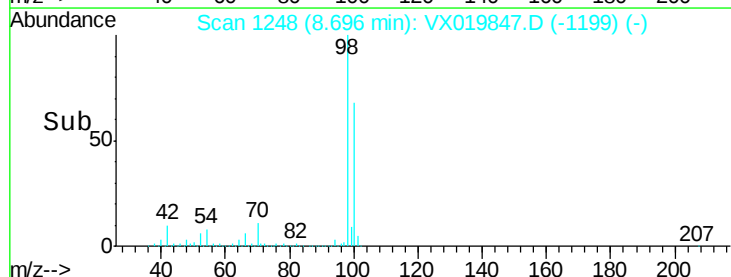
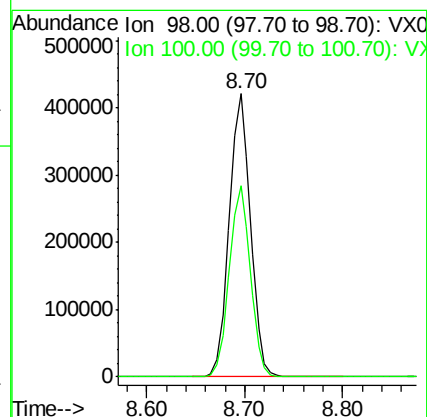
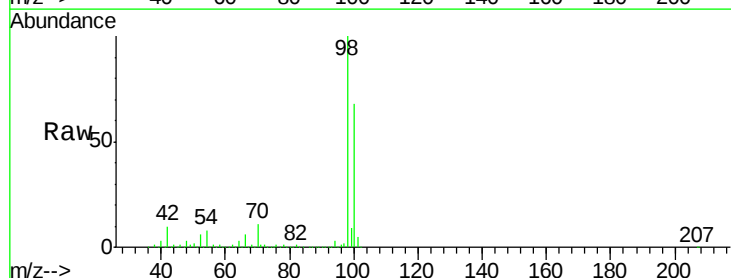
Acq: 11 Dec 2020 00:48

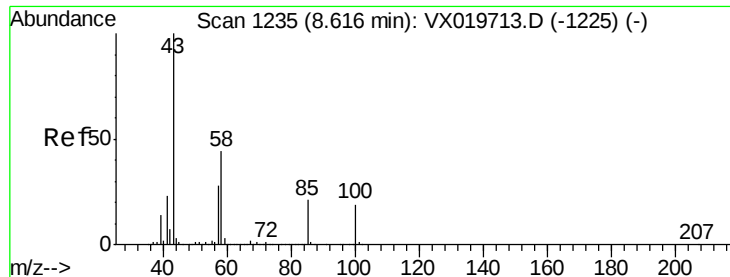
Tgt Ion: 98 Resp: 634663

Ion Ratio Lower Upper

98 100

100 67.2 51.9 77.9

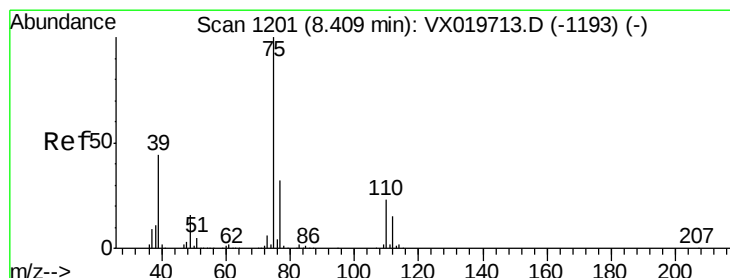
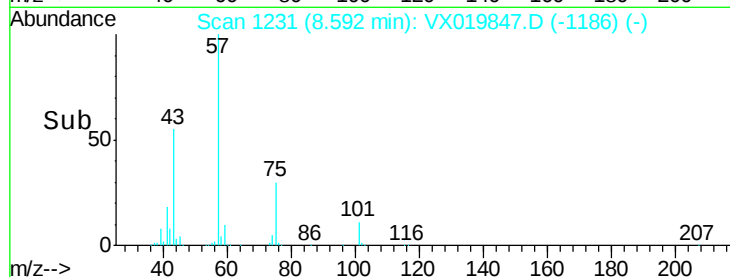
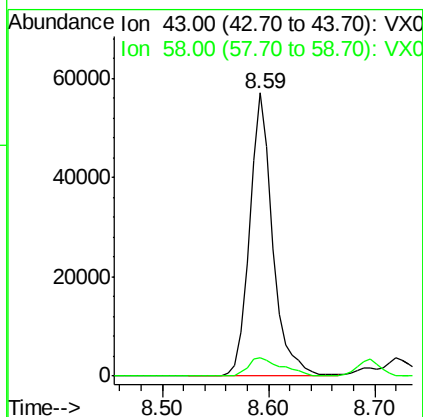
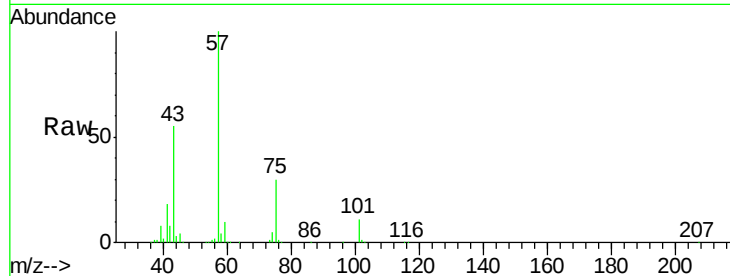




#51  
4-Methyl-2-Pentanone  
Concen: 18.146 ug/l  
RT: 8.59 min Scan# 1231  
Delta R.T. -0.02 min  
Lab File: VX019847.D  
Acq: 11 Dec 2020 00:48

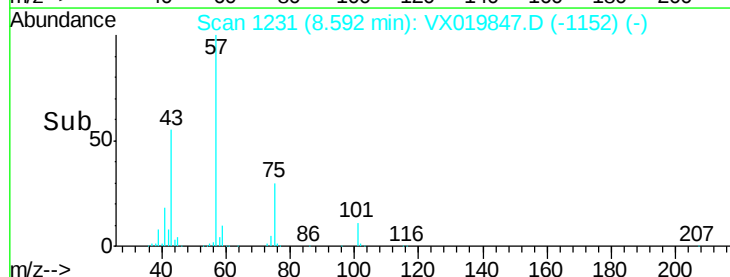
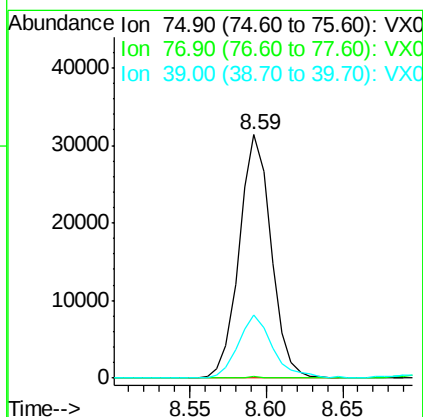
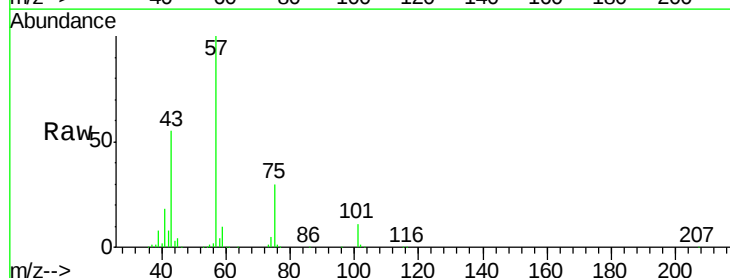
Instrument :  
MSVOA\_X  
ClientSampleId :  
TR1-B-TOP

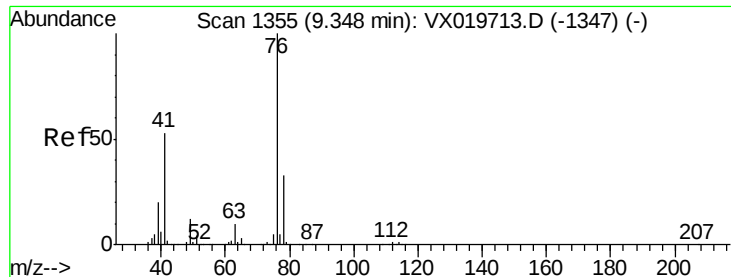
Tgt Ion: 43 Resp: 85932  
Ion Ratio Lower Upper  
43 100  
58 9.8 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 7.779 ug/l  
RT: 8.59 min Scan# 1231  
Delta R.T. 0.18 min  
Lab File: VX019847.D  
Acq: 11 Dec 2020 00:48

Tgt Ion: 75 Resp: 45337  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.7 38.5#  
39 25.9 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 4.280 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

Instrument :

MSVOA\_X

ClientSampleId :

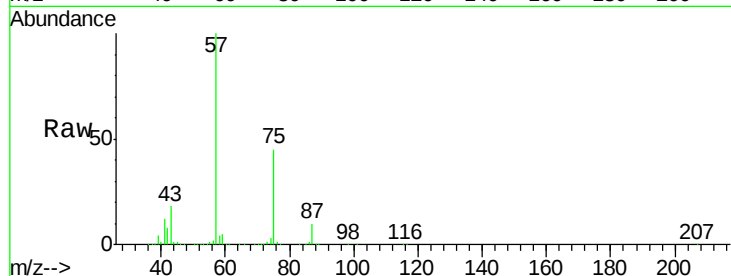
TR1-B-TOP

Tgt Ion: 76 Resp: 26589

Ion Ratio Lower Upper

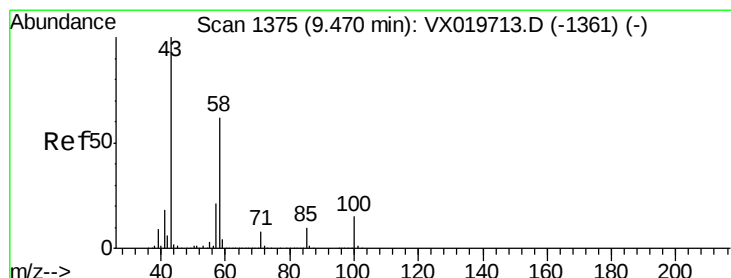
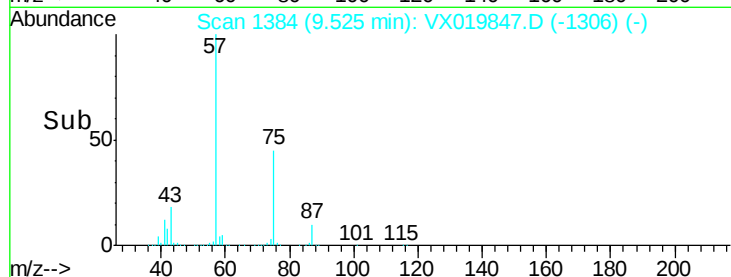
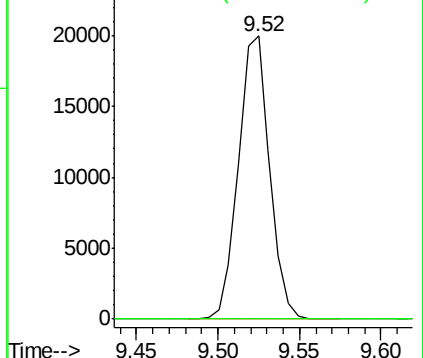
76 100

78 0.2 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 87.616 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019847.D

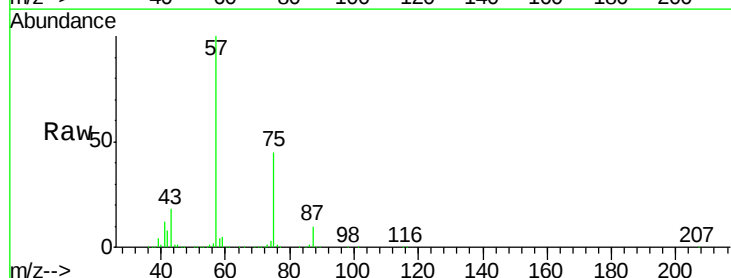
Acq: 11 Dec 2020 00:48

Tgt Ion: 43 Resp: 321620

Ion Ratio Lower Upper

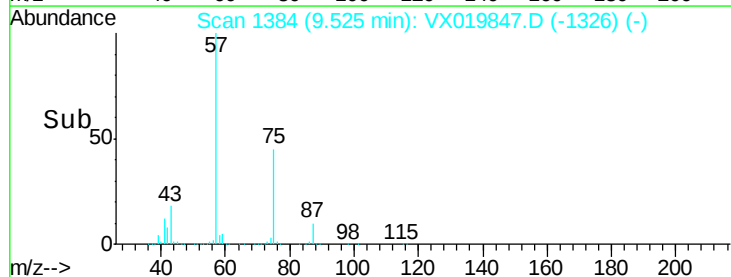
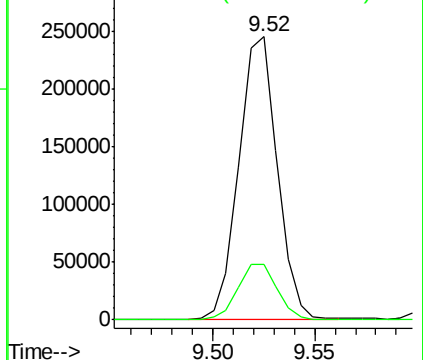
43 100

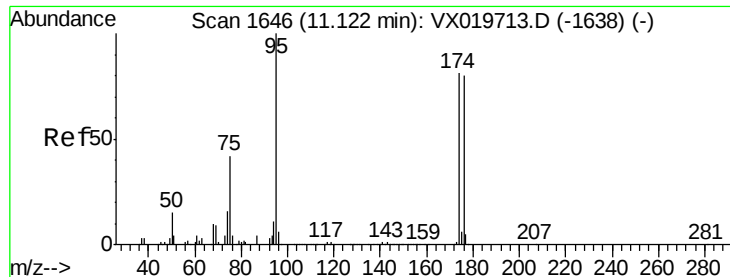
58 20.3 30.9 92.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.758 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

Instrument :

MSVOA\_X

ClientSampleId :

TR1-B-TOP

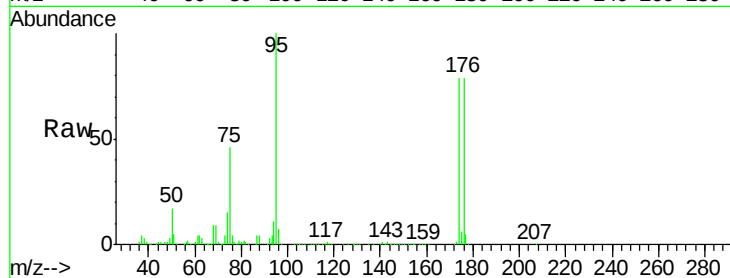
Tgt Ion: 95 Resp: 224709

Ion Ratio Lower Upper

95 100

174 76.7 0.0 154.6

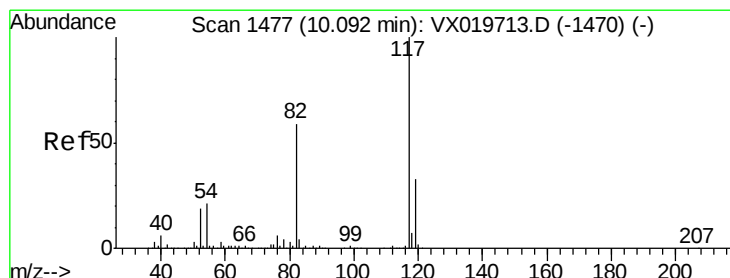
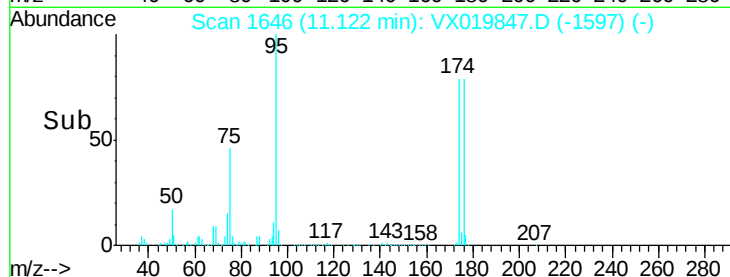
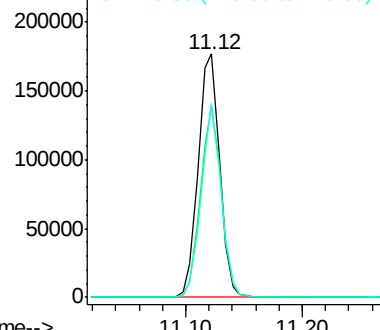
176 73.8 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

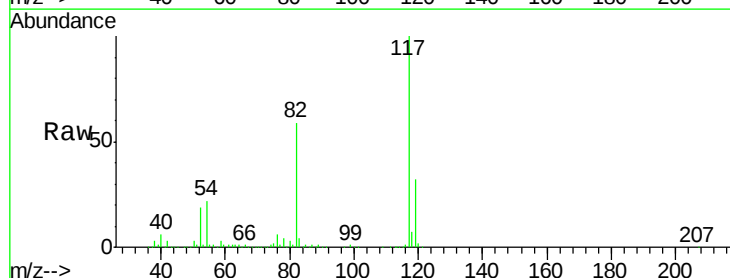
Tgt Ion: 117 Resp: 474381

Ion Ratio Lower Upper

117 100

82 58.5 47.4 71.2

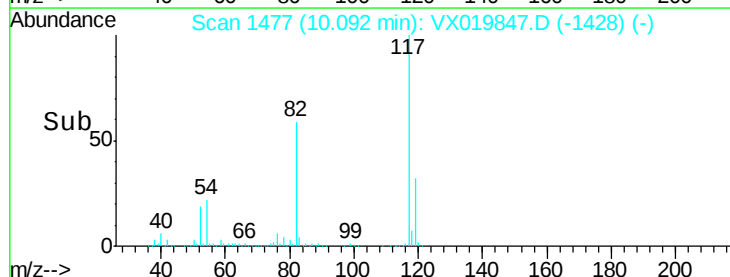
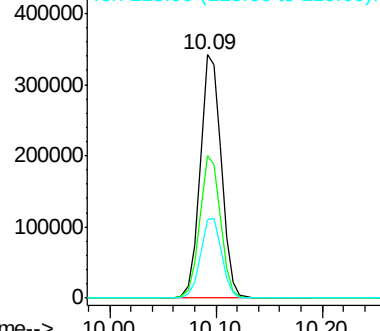
119 32.3 26.6 39.8

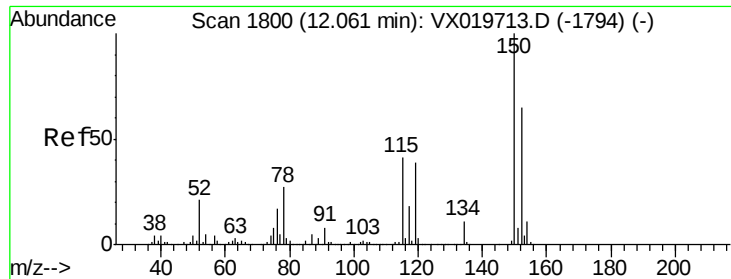


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019847.D

Acq: 11 Dec 2020 00:48

Instrument :

MSVOA\_X

ClientSampleId :

TR1-B-TOP

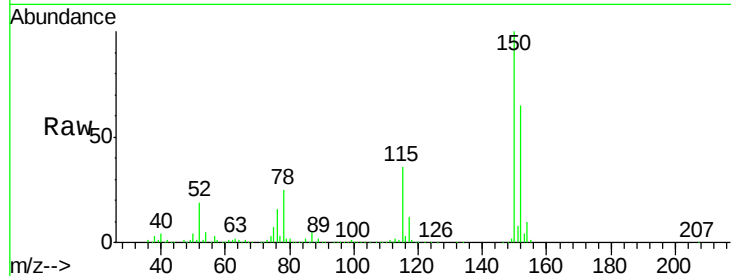
Tgt Ion:152 Resp: 207662

Ion Ratio Lower Upper

152 100

115 59.0 41.1 123.3

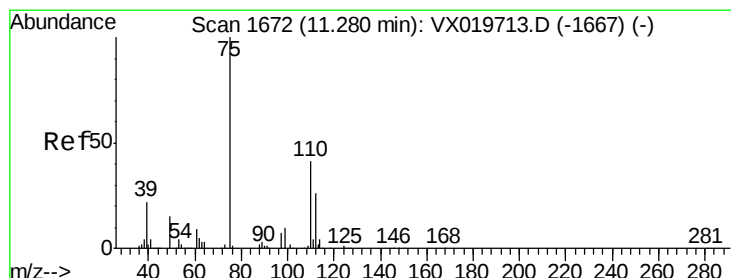
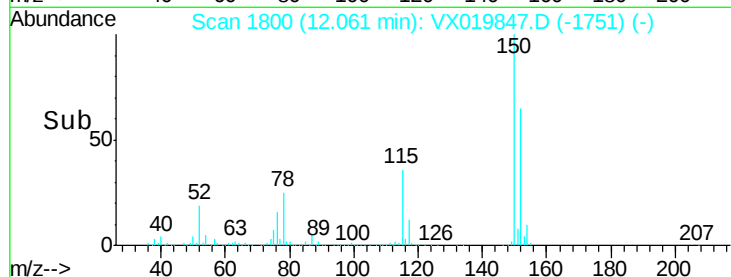
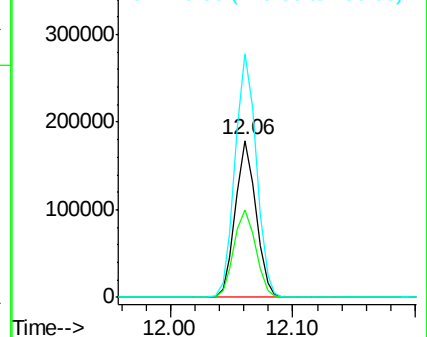
150 159.9 0.0 349.0



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



#76

1,2,3-Trichloropropane

Concen: 22.792 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019847.D

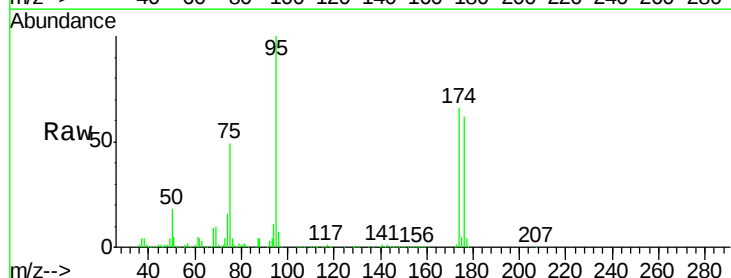
Acq: 11 Dec 2020 00:48

Tgt Ion: 75 Resp: 106153

Ion Ratio Lower Upper

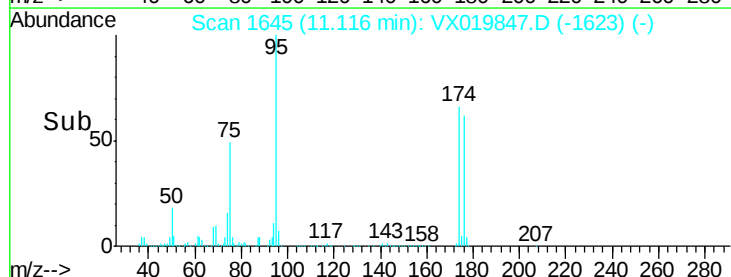
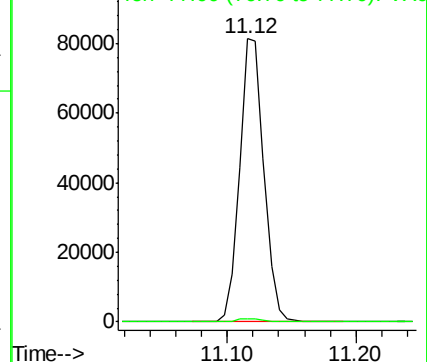
75 100

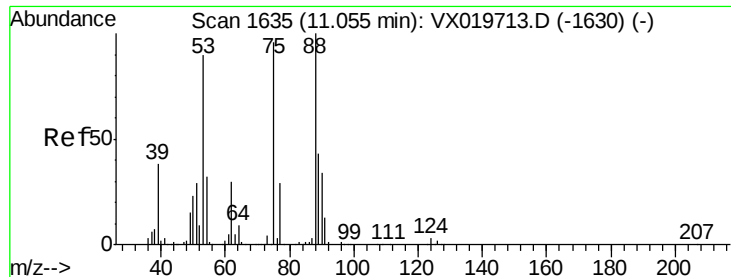
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.887 ug/l  
 RT: 11.12 min Scan# 1645  
 Delta R.T. 0.06 min  
 Lab File: VX019847.D  
 Acq: 11 Dec 2020 00:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TR1-B-TOP

Tgt Ion: 75 Resp: 106153  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.5 111.7#  
 89 0.0 37.9 56.9#

