

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082120\  
 Data File : VX018050.D  
 Acq On : 21 Aug 2020 11:36  
 Operator : JC/SP  
 Sample : VX0821WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0821WBL01

Quant Time: Aug 21 23:50:22 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      | 5.63  | 168  | 651727   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1073239  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 993288   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 463700   | 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   | 454159   | 50.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.40% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 344371   | 47.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.22%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 1319607  | 48.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.94%  |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 464340   | 43.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.70%  |          |

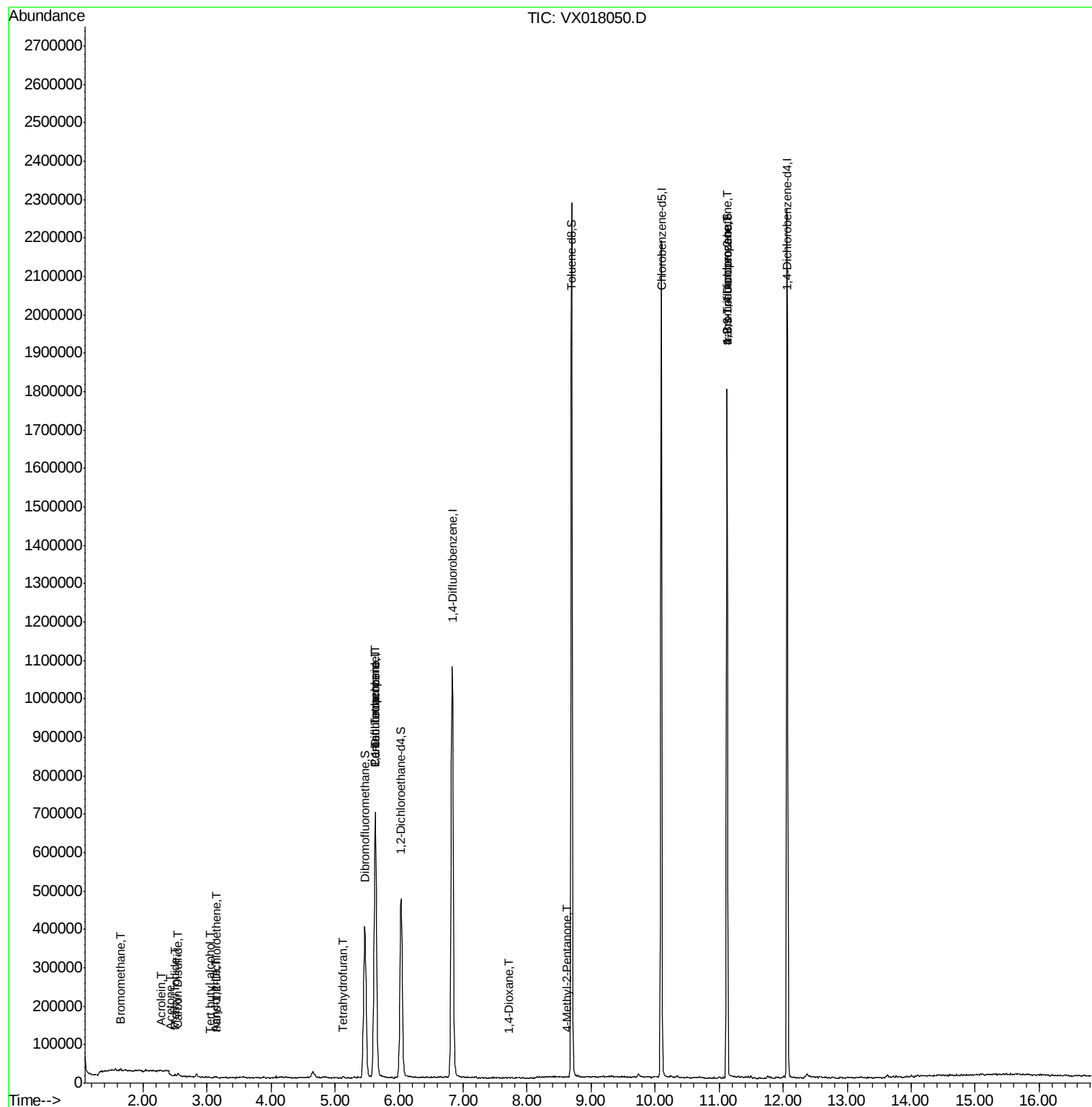
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 1992     | 0.496     | ug/l # | 68     |
| 10) Methyl Iodide              | 2.50  | 142  | 2176     | 5.583     | ug/l # | 64     |
| 11) Tert butyl alcohol         | 3.04  | 59   | 380      | 0.216     | ug/l # | 9      |
| 13) Acrolein                   | 2.28  | 56   | 853      | 1.169     | ug/l # | 77     |
| 15) Acrylonitrile              | 3.12  | 53   | 1610     | 0.403     | ug/l # | 70     |
| 16) Acetone                    | 2.42  | 43   | 3316     | 0.941     | ug/l # | 73     |
| 17) Carbon Disulfide           | 2.54  | 76   | 7242     | 0.376     | ug/l # | 86     |
| 20) Methylene Chloride         | 2.83  | 84   | 4135     | Below Cal |        | 94     |
| 21) trans-1,2-Dichloroethene   | 3.14  | 96   | 1507     | 0.214     | ug/l # | 59     |
| 29) Tetrahydrofuran            | 5.11  | 42   | 1006     | 0.273     | ug/l   | 98     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 51107    | 5.163     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 67299    | 6.033     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 45       | 0.269     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 2573     | 0.224     | ug/l # | 73     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 228798   | 22.181    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 228798   | 59.906    | ug/l # | 12     |

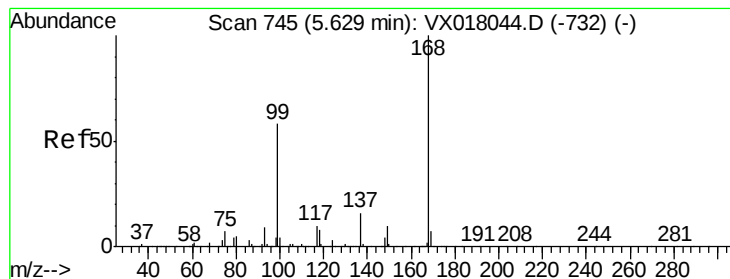
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX082120\  
Data File : VX018050.D  
Acq On : 21 Aug 2020 11:36  
Operator : JC/SP  
Sample : VX0821WBL01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0821WBL01

Quant Time: Aug 21 23:50:22 2020  
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: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

Instrument :

MSVOA\_X

ClientSampleId :

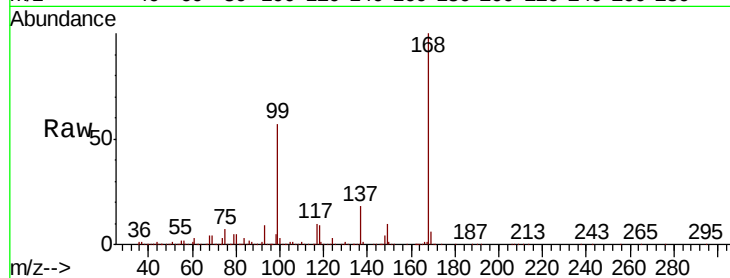
VX0821WBL01

Tot Ion:168 Resp: 651727

Ion Ratio Lower Upper

168 100

99 57.1 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

250000

200000

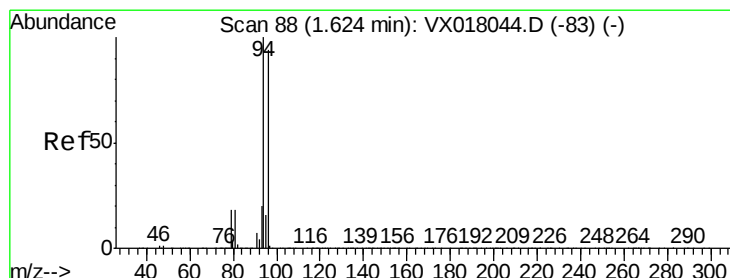
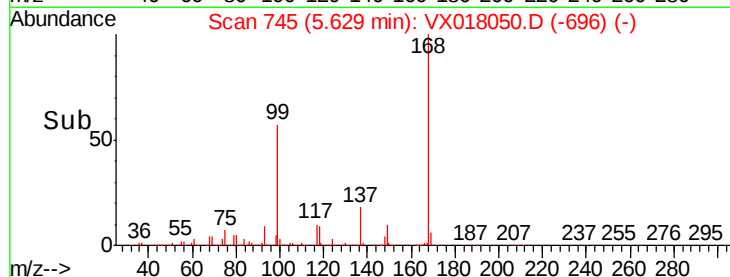
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.496 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX018050.D

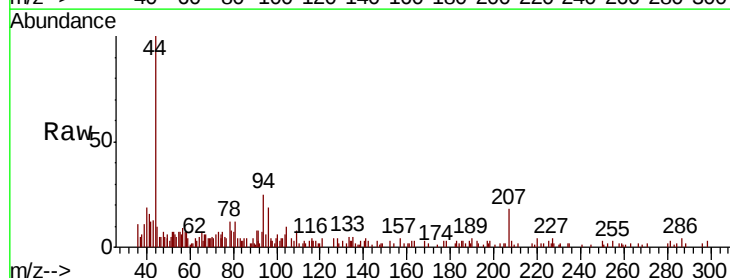
Acq: 21 Aug 2020 11:36

Tgt Ion: 94 Resp: 1992

Ion Ratio Lower Upper

94 100

96 63.1 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

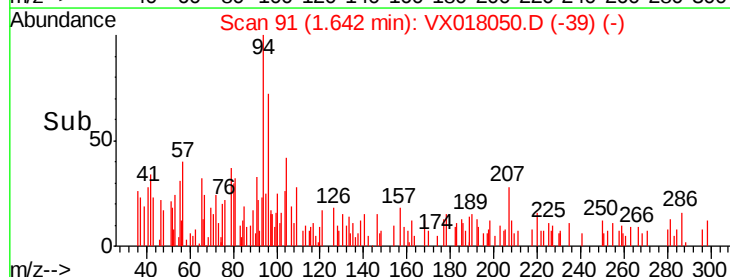
600

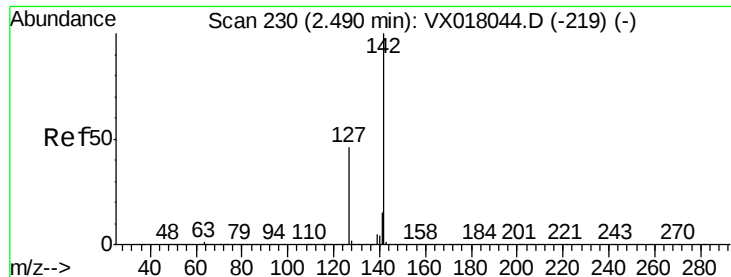
400

200

0

Time-->

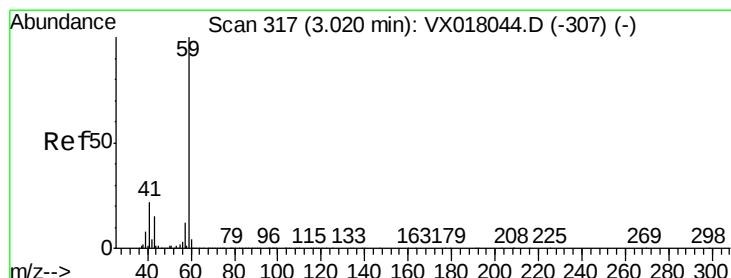
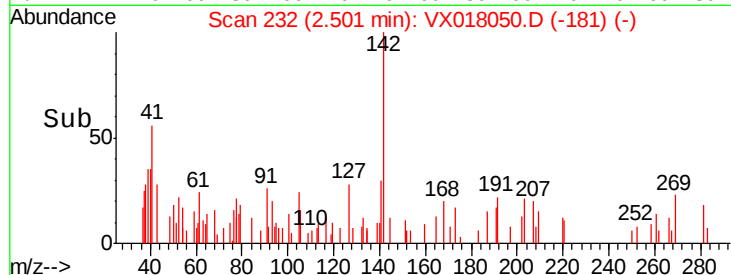
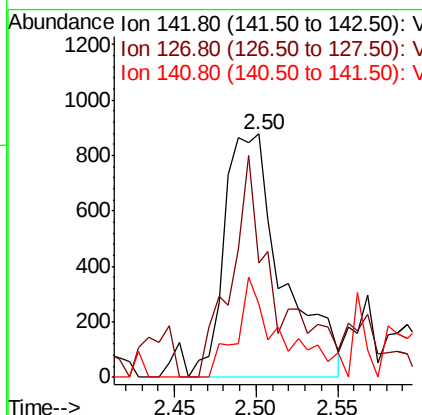
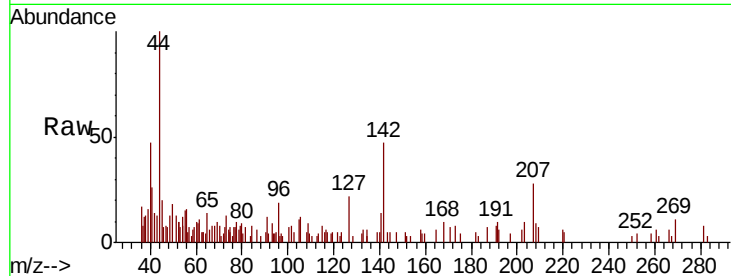




#10  
Methvl Iodide  
Concen: 5.583 ug/l  
RT: 2.50 min Scan# 232  
Delta R.T. 0.01 min  
Lab File: VX018050.D  
Acq: 21 Aug 2020 11:36

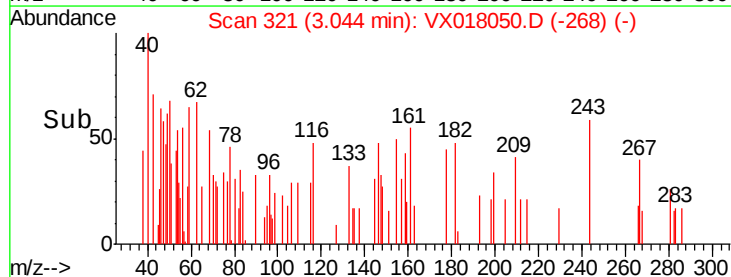
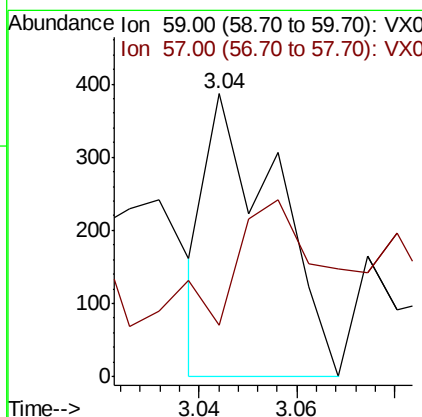
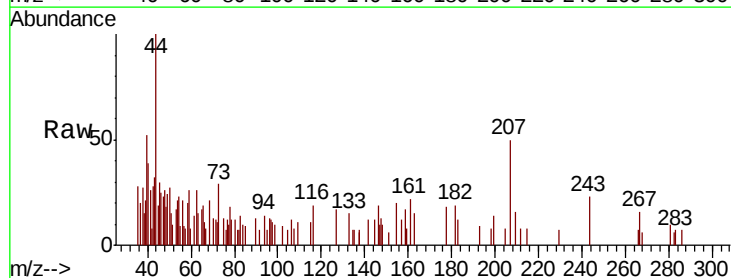
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0821WBL01

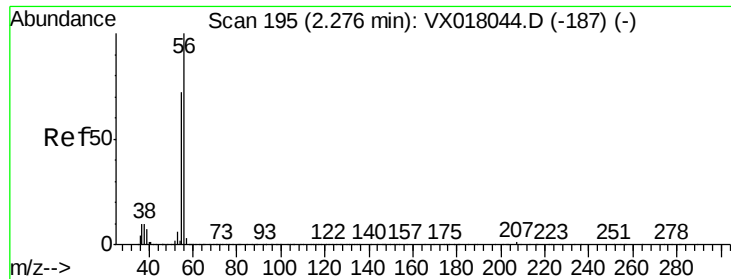
Tot Ion:142 Resp: 2176  
Ion Ratio Lower Upper  
142 100  
127 69.7 37.0 55.6#  
141 30.5 11.5 17.3#



#11  
Tert butyl alcohol  
Concen: 0.216 ug/l  
RT: 3.04 min Scan# 321  
Delta R.T. 0.02 min  
Lab File: VX018050.D  
Acq: 21 Aug 2020 11:36

Tgt Ion: 59 Resp: 380  
Ion Ratio Lower Upper  
59 100  
57 45.5 8.9 13.3#





#13

Acrolein

Concen: 1.169 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

Instrument :

MSVOA\_X

ClientSampleId :

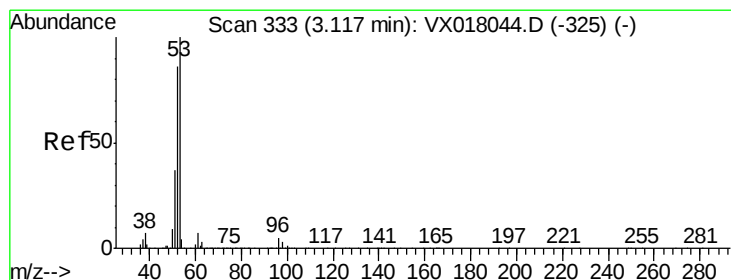
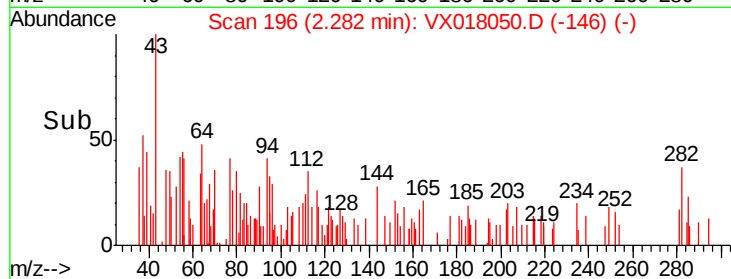
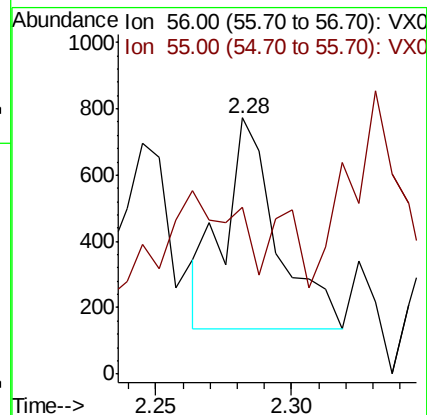
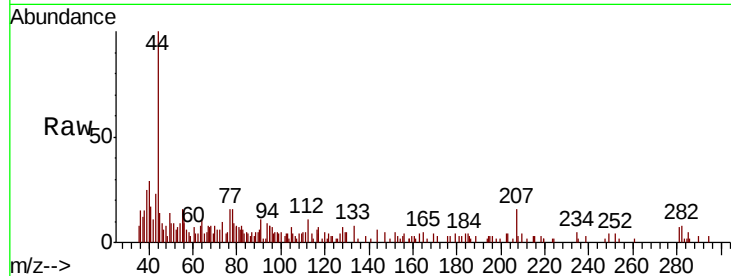
VX0821WBL01

Tot Ion: 56 Resp: 853

Ion Ratio Lower Upper

56 100

55 52.5 57.0 85.6#



#15

Acrylonitrile

Concen: 0.403 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

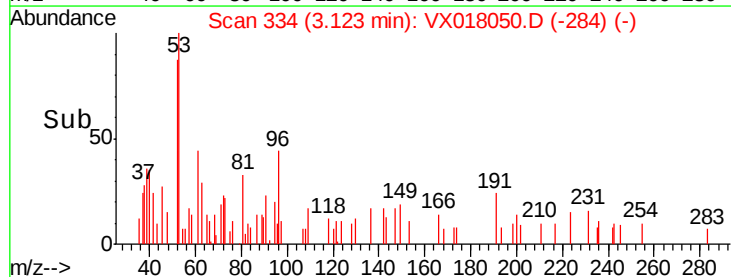
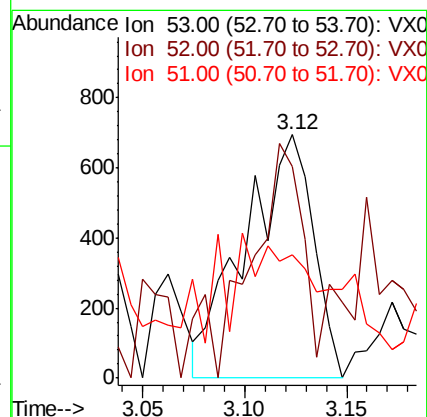
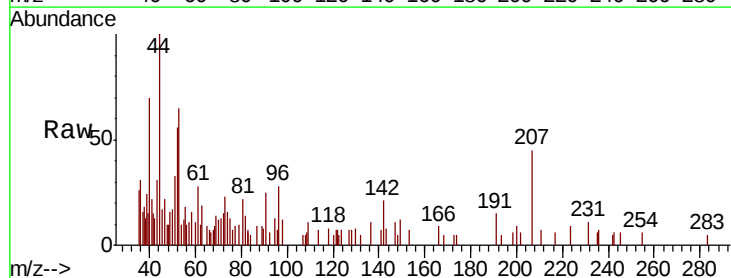
Tgt Ion: 53 Resp: 1610

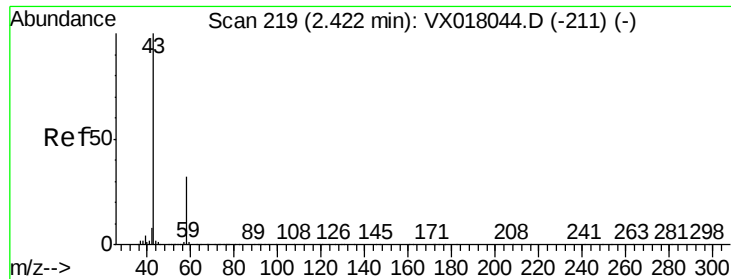
Ion Ratio Lower Upper

53 100

52 68.8 66.9 100.3

51 0.0 28.7 43.1#

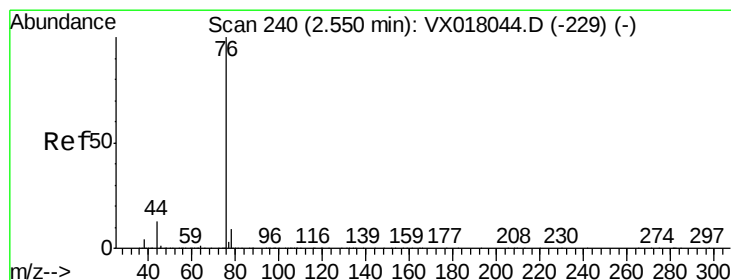
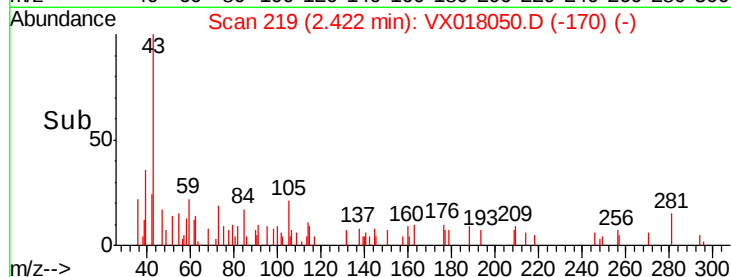
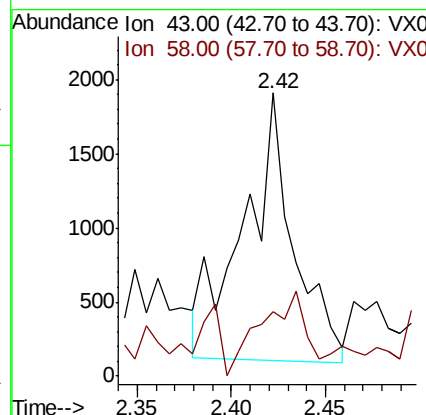
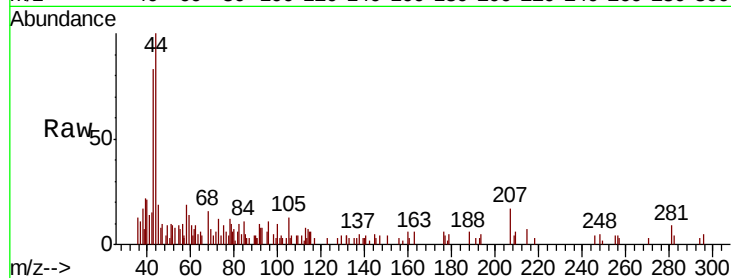




#16  
Acetone  
Concen: 0.941 ug/l  
RT: 2.42 min Scan# 219  
Delta R.T. -0.00 min  
Lab File: VX018050.D  
Acq: 21 Aug 2020 11:36

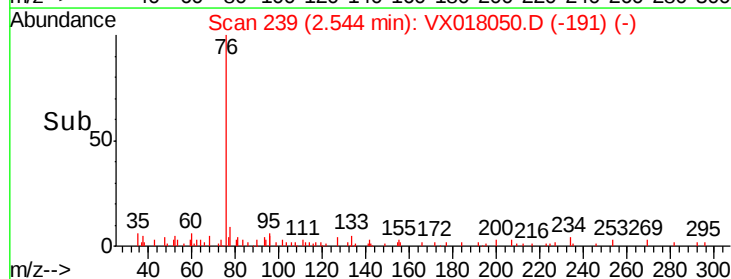
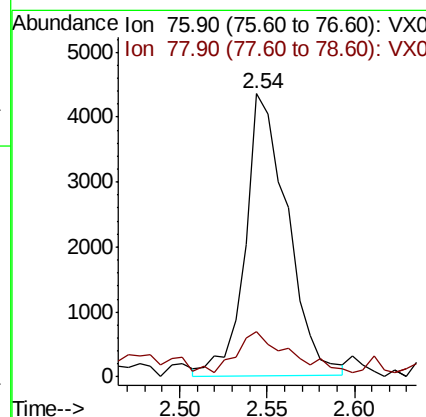
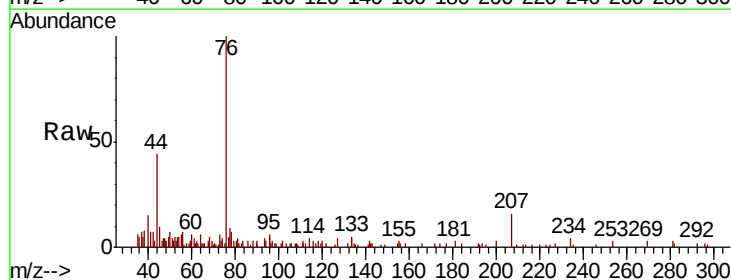
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0821WBL01

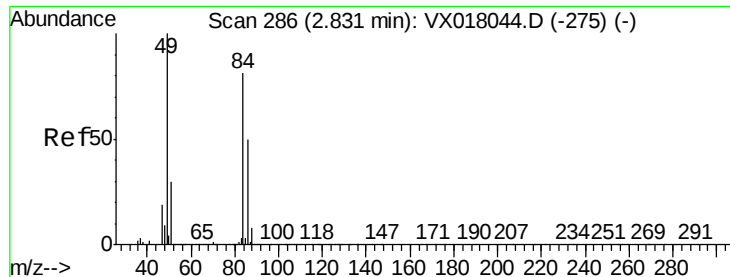
Tot Ion: 43 Resp: 3316  
Ion Ratio Lower Upper  
43 100  
58 16.7 25.5 38.3#



#17  
Carbon Disulfide  
Concen: 0.376 ug/l  
RT: 2.54 min Scan# 239  
Delta R.T. -0.01 min  
Lab File: VX018050.D  
Acq: 21 Aug 2020 11:36

Tgt Ion: 76 Resp: 7242  
Ion Ratio Lower Upper  
76 100  
78 14.5 7.4 11.0#

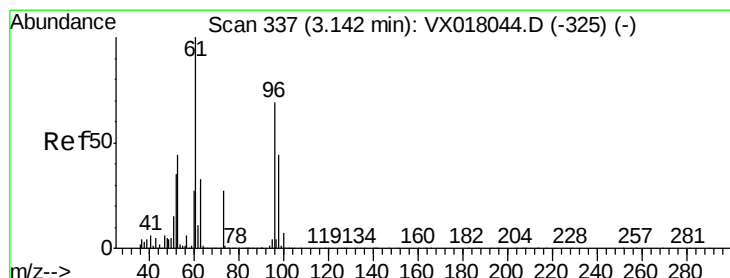
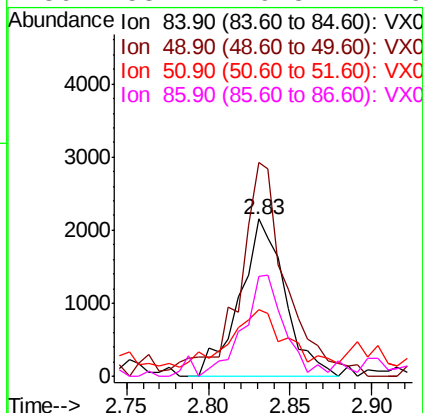
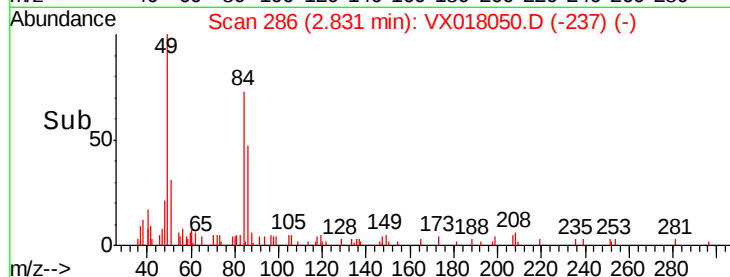
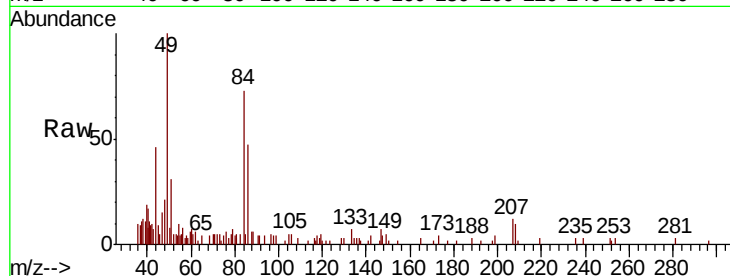




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 2.83 min Scan# 286  
Delta R.T. 0.00 min  
Lab File: VX018050.D  
Acq: 21 Aug 2020 11:36

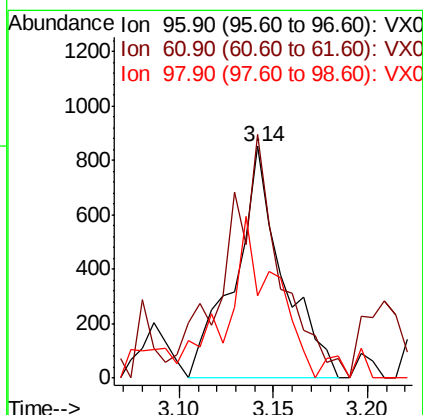
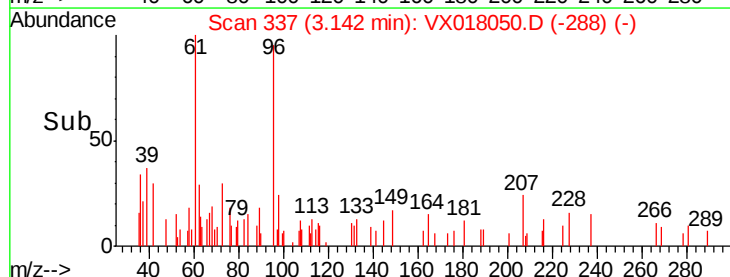
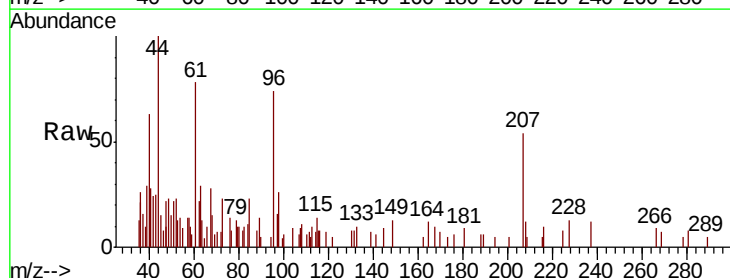
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0821WBL01

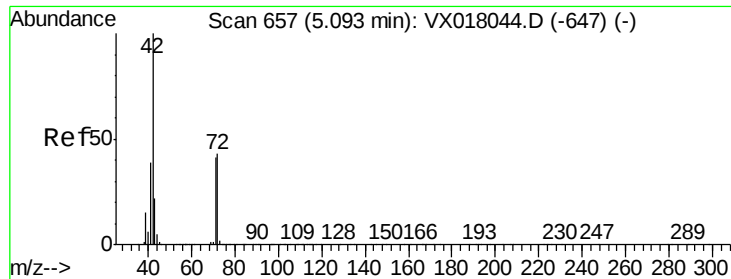
| Tot Ion: | 84    | Resp: | 4135  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 127.6 | 98.6  | 148.0 |
| 51       | 34.5  | 29.6  | 44.4  |
| 86       | 53.7  | 49.8  | 74.6  |



#21  
trans-1,2-Dichloroethene  
Concen: 0.214 ug/l  
RT: 3.14 min Scan# 337  
Delta R.T. -0.00 min  
Lab File: VX018050.D  
Acq: 21 Aug 2020 11:36

| Tgt Ion: | 96    | Resp: | 1507   |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 96.8  | 115.4 | 173.0# |
| 98       | 25.9  | 51.1  | 76.7#  |





#29

Tetrahydrofuran

Concen: 0.273 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

Instrument :

MSVOA\_X

ClientSampleId :

VX0821WBL01

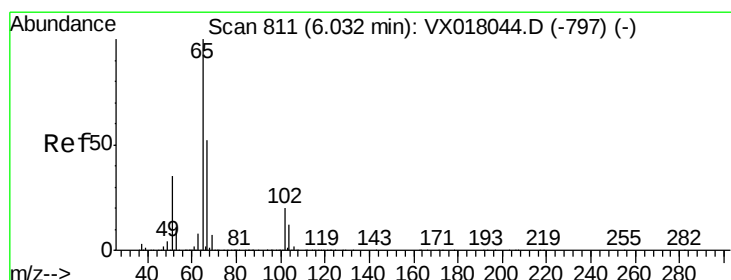
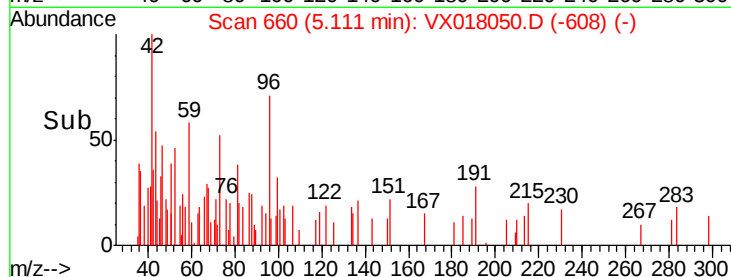
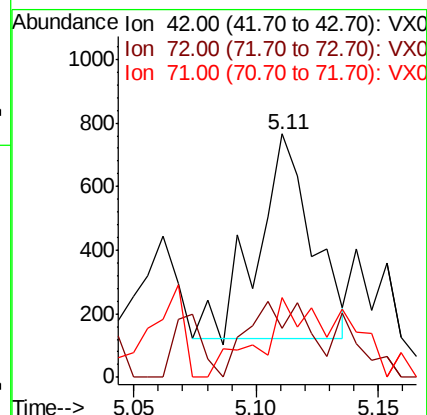
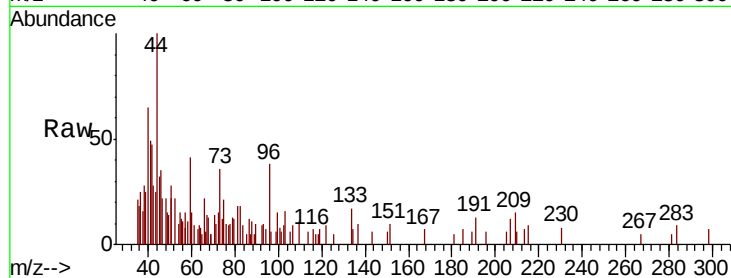
Tot Ion: 42 Resp: 1006

Ion Ratio Lower Upper

42 100

72 40.8 34.2 51.4

71 40.0 32.1 48.1



#33

1,2-Dichloroethane-d4

Concen: 50.196 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018050.D

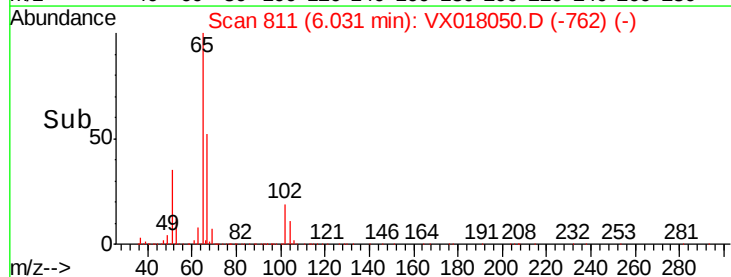
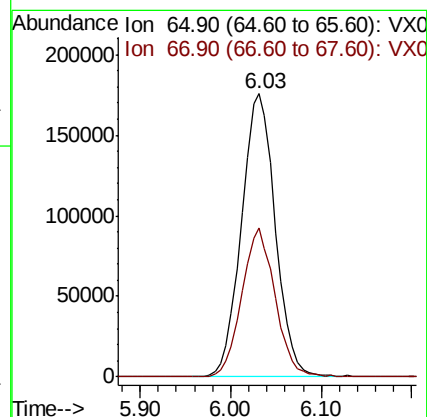
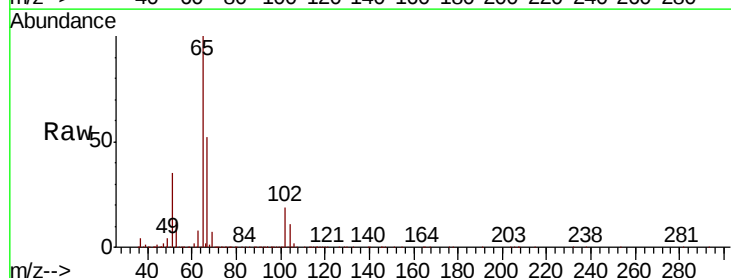
Acq: 21 Aug 2020 11:36

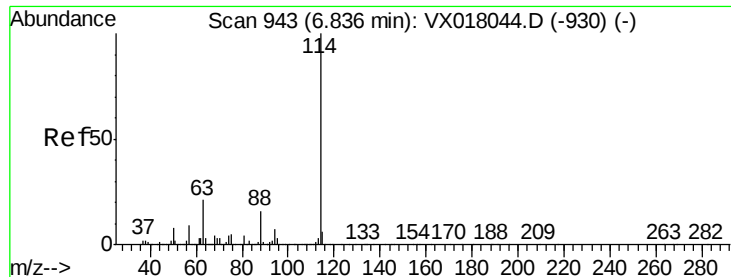
Tgt Ion: 65 Resp: 454159

Ion Ratio Lower Upper

65 100

67 51.9 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

Instrument :

MSVOA\_X

ClientSampleId :

VX0821WBL01

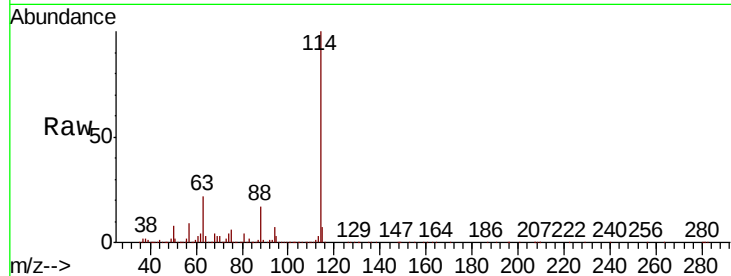
Tot Ion:114 Resp: 1073239

Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.6

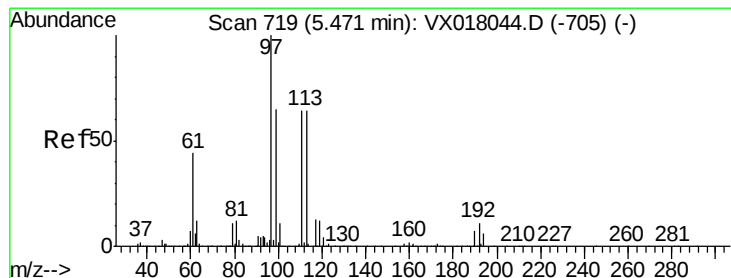
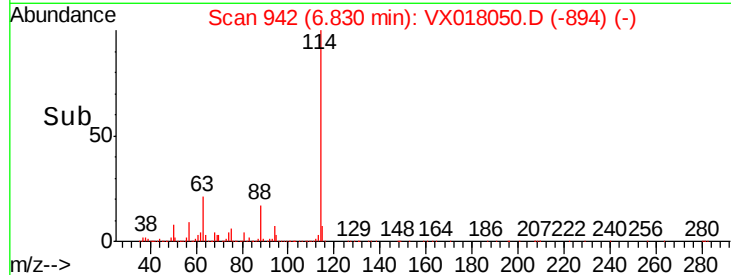
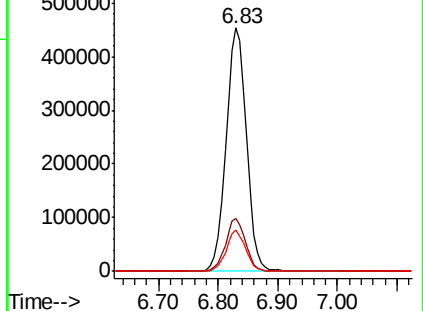
88 16.8 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.114 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

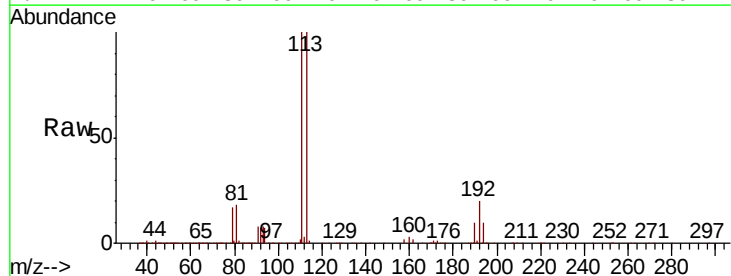
Tgt Ion:113 Resp: 344371

Ion Ratio Lower Upper

113 100

111 103.2 81.6 122.4

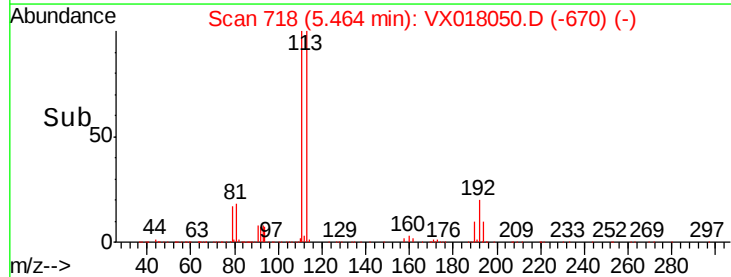
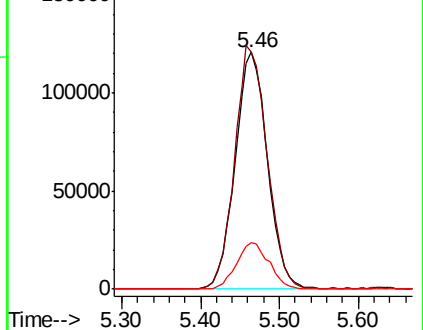
192 20.1 15.8 23.8

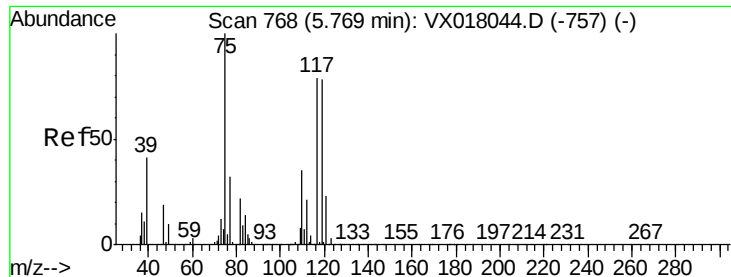


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.163 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

Instrument :

MSVOA\_X

ClientSampleId :

VX0821WBL01

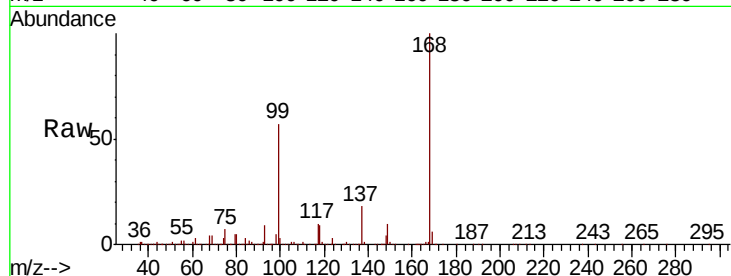
Tot Ion: 75 Resp: 51107

Ion Ratio Lower Upper

75 100

110 9.7 18.0 54.0#

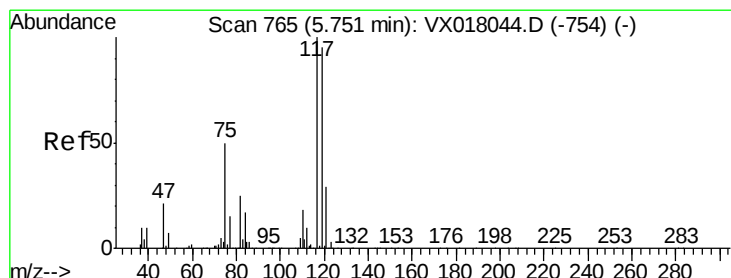
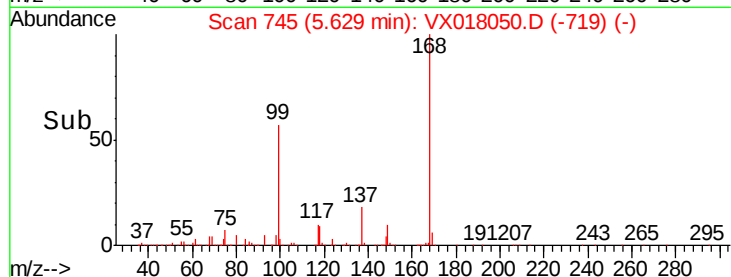
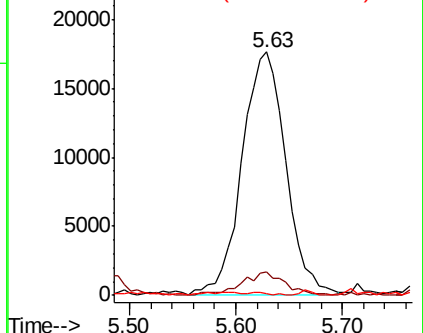
77 0.2 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.033 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

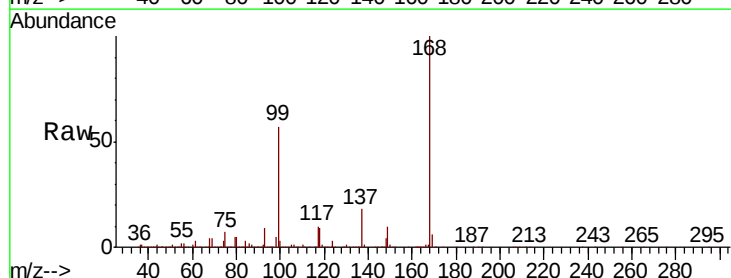
Tgt Ion: 117 Resp: 67299

Ion Ratio Lower Upper

117 100

119 4.8 75.8 113.6#

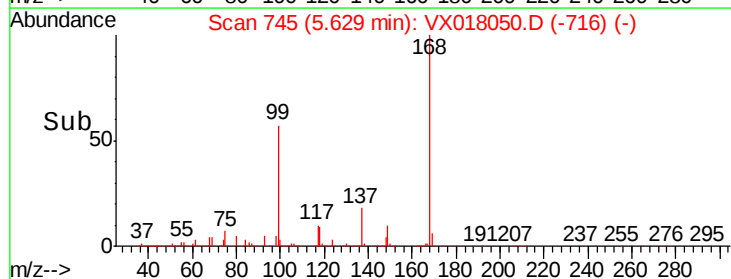
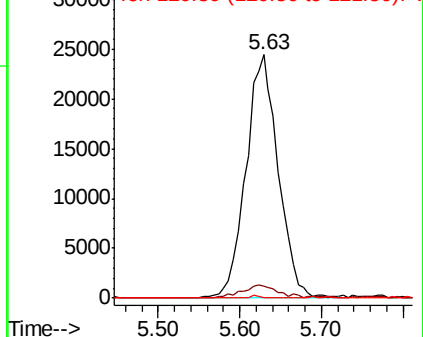
121 0.2 23.4 35.0#

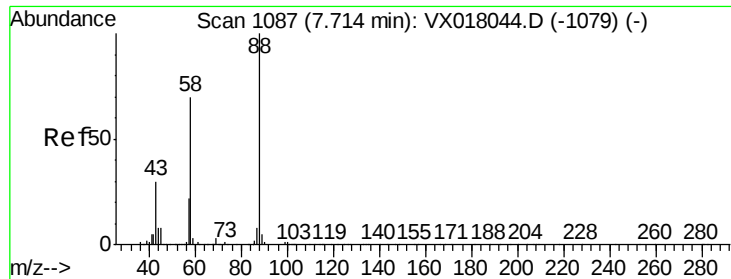


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.269 ug/l

RT: 7.70 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

Instrument :

MSVOA\_X

ClientSampleId :

VX0821WBL01

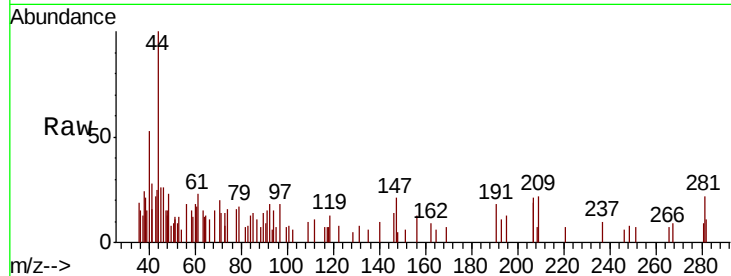
Tot Ion: 88 Resp: 45

Ion Ratio Lower Upper

88 100

43 875.6 27.4 41.0#

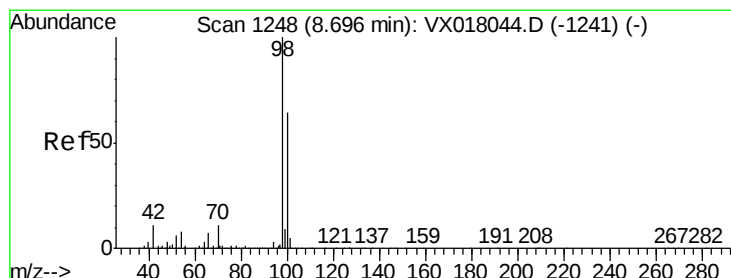
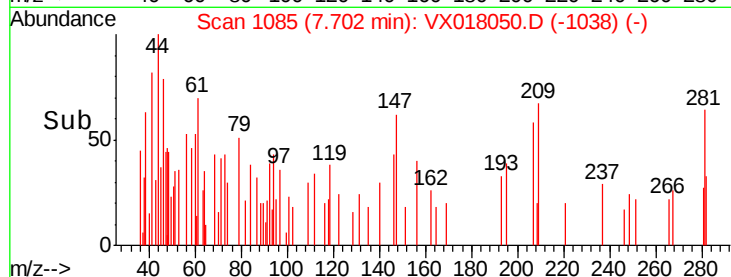
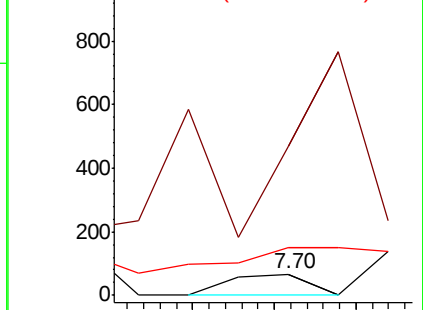
58 520.0 56.4 84.6#



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: 48.473 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018050.D

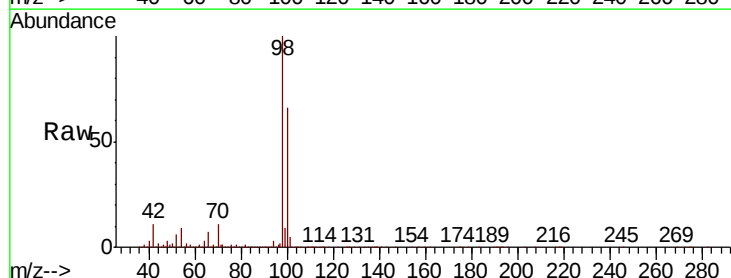
Acq: 21 Aug 2020 11:36

Tgt Ion: 98 Resp: 1319607

Ion Ratio Lower Upper

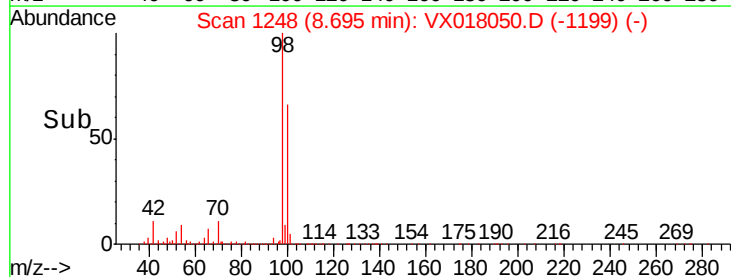
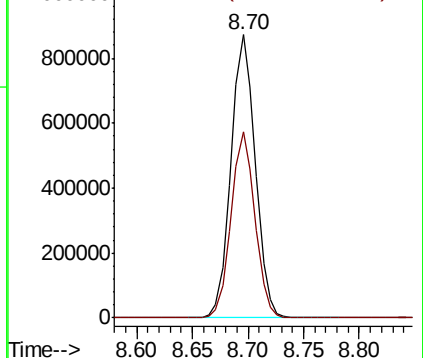
98 100

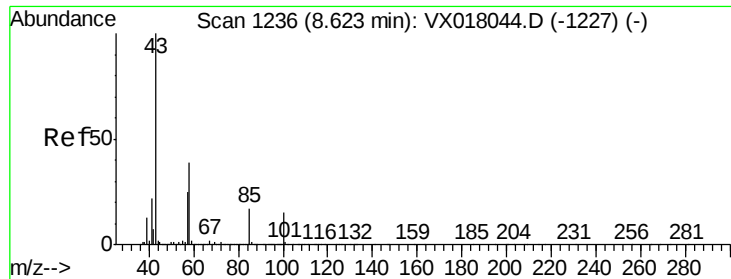
100 64.5 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.224 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

Instrument :

MSVOA\_X

ClientSampleId :

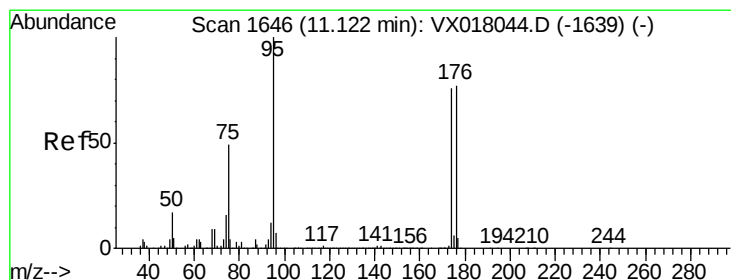
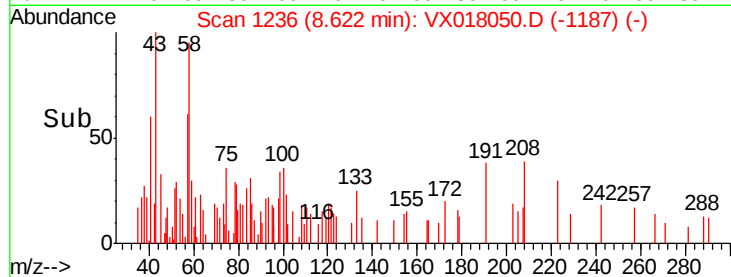
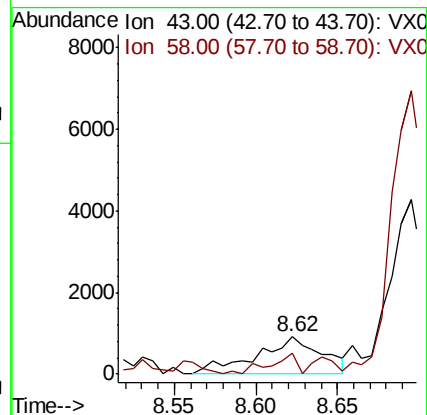
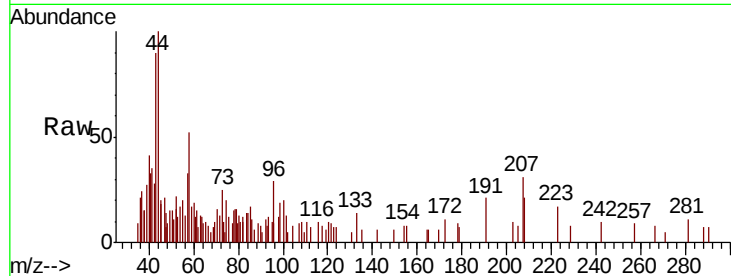
VX0821WBL01

Tot Ion: 43 Resp: 2573

Ion Ratio Lower Upper

43 100

58 22.0 30.7 46.1#



#62

4-Bromofluorobenzene

Concen: 43.352 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

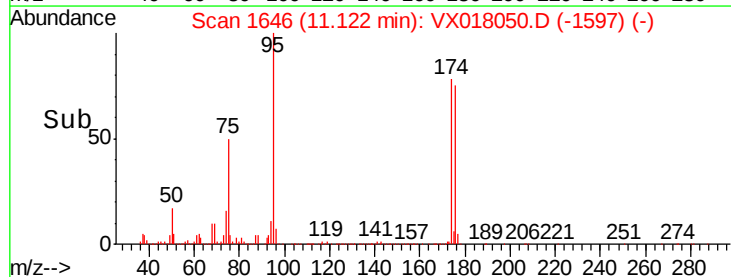
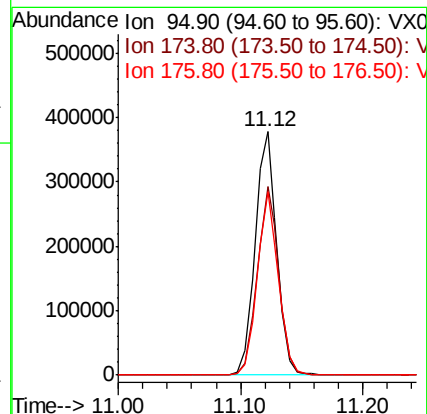
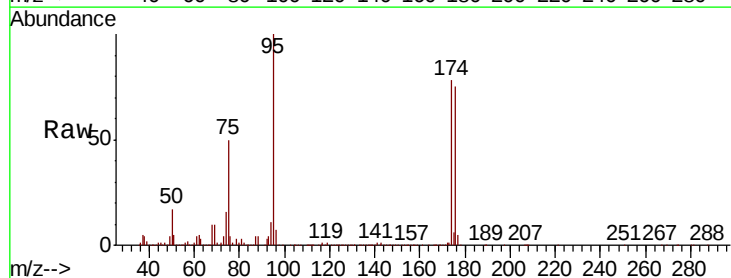
Tgt Ion: 95 Resp: 464340

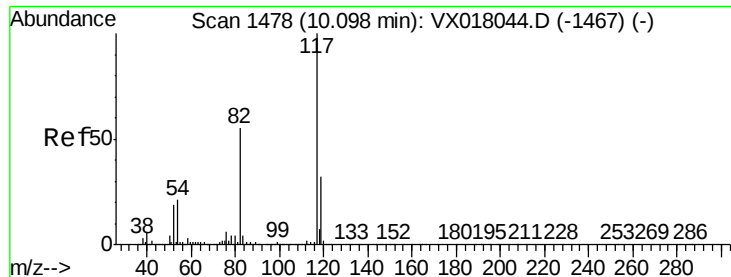
Ion Ratio Lower Upper

95 100

174 77.7 0.0 160.2

176 73.9 0.0 155.8

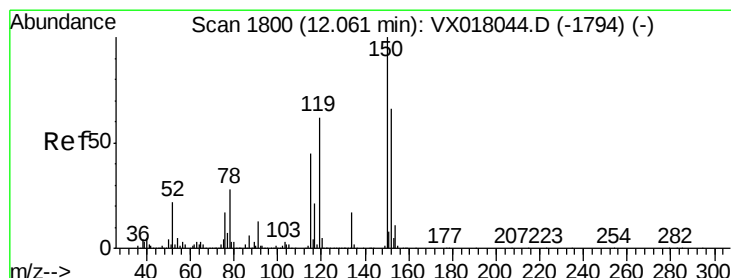
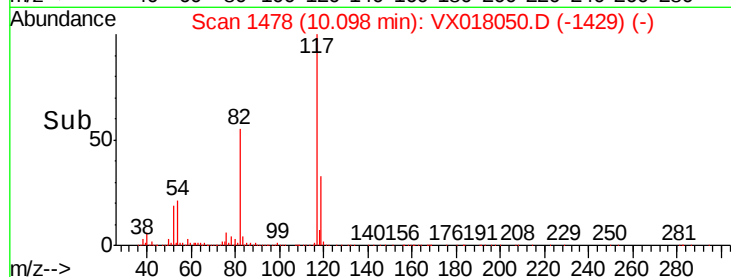
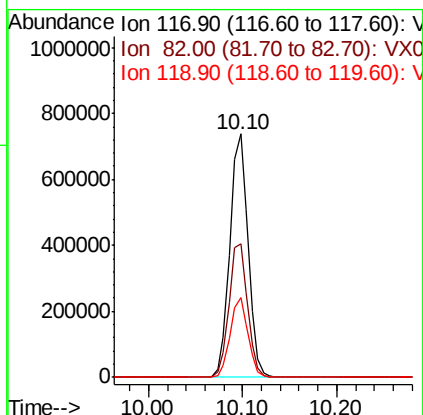
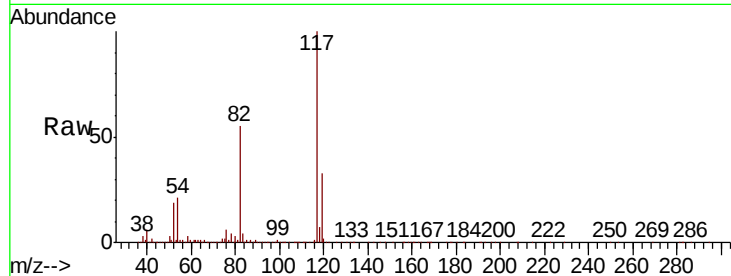




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX018050.D  
Acq: 21 Aug 2020 11:36

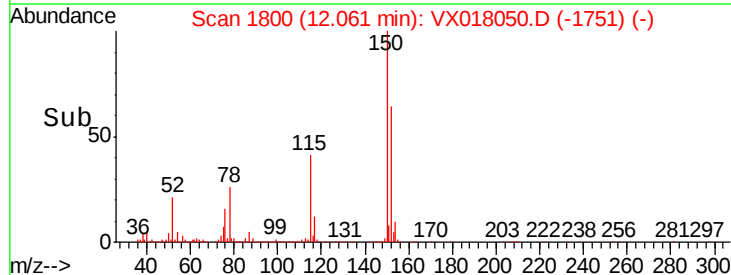
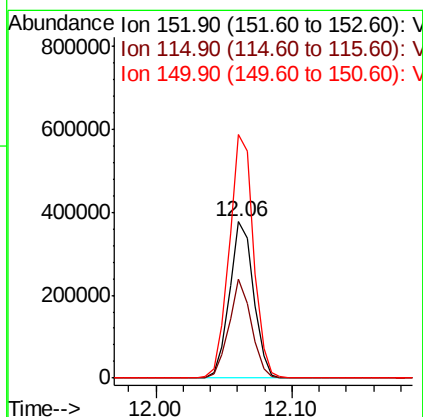
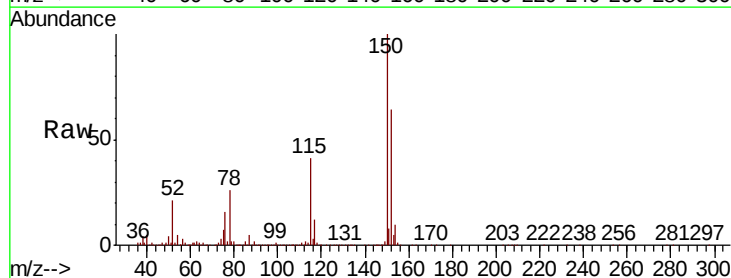
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0821WBL01

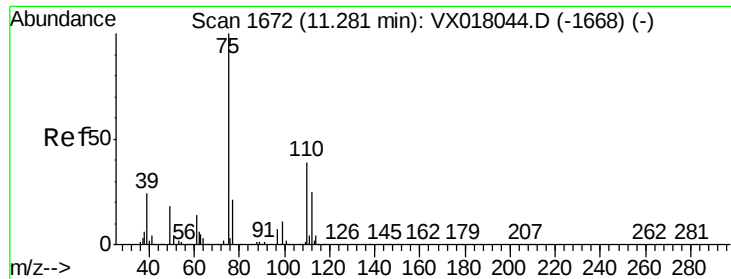
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.7  | 44.2  | 66.2  |
| 119     | 32.8  | 25.7  | 38.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX018050.D  
Acq: 21 Aug 2020 11:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.2  | 41.5  | 124.5 |
| 150     | 156.8 | 0.0   | 343.8 |





#76

1,2,3-Trichloropropane

Concen: 22.181 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

Instrument :

MSVOA\_X

ClientSampleId :

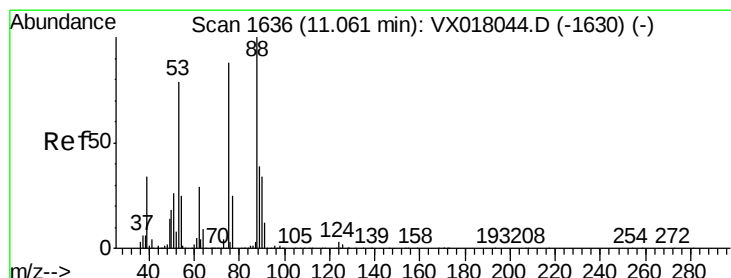
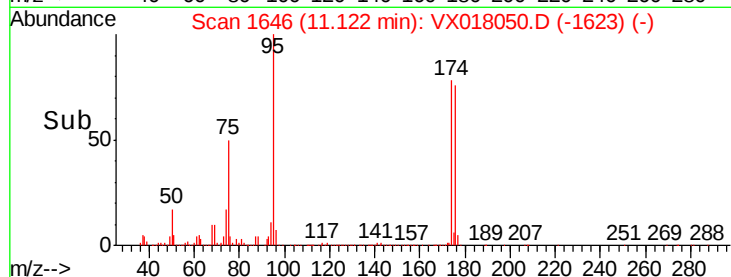
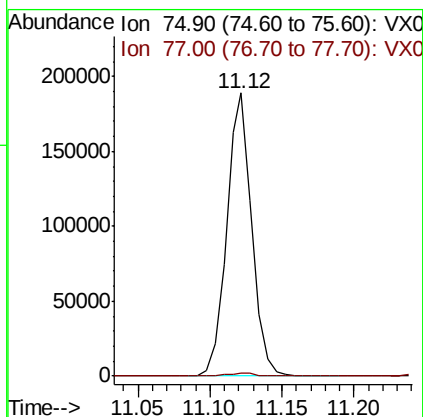
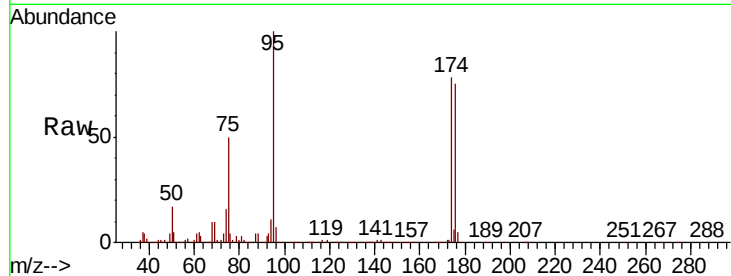
VX0821WBL01

Tot Ion: 75 Resp: 228798

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.906 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018050.D

Acq: 21 Aug 2020 11:36

Tgt Ion: 75 Resp: 228798

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.6 54.8#

