

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071219\  
 Data File : VX010828.D  
 Acq On : 12 Jul 2019 12:09  
 Operator : JC/SP  
 Sample : K3782-08  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LC-TB03-190711

Quant Time: Jul 13 01:37:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 226140   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 353677   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 321107   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 146234   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 115348   | 54.40  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 108.80% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 108966   | 50.36  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.72% |          |
| 50) Toluene-d8              | 8.71  | 98   | 424584   | 51.29  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 102.58% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 143829   | 48.12  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.24%  |          |

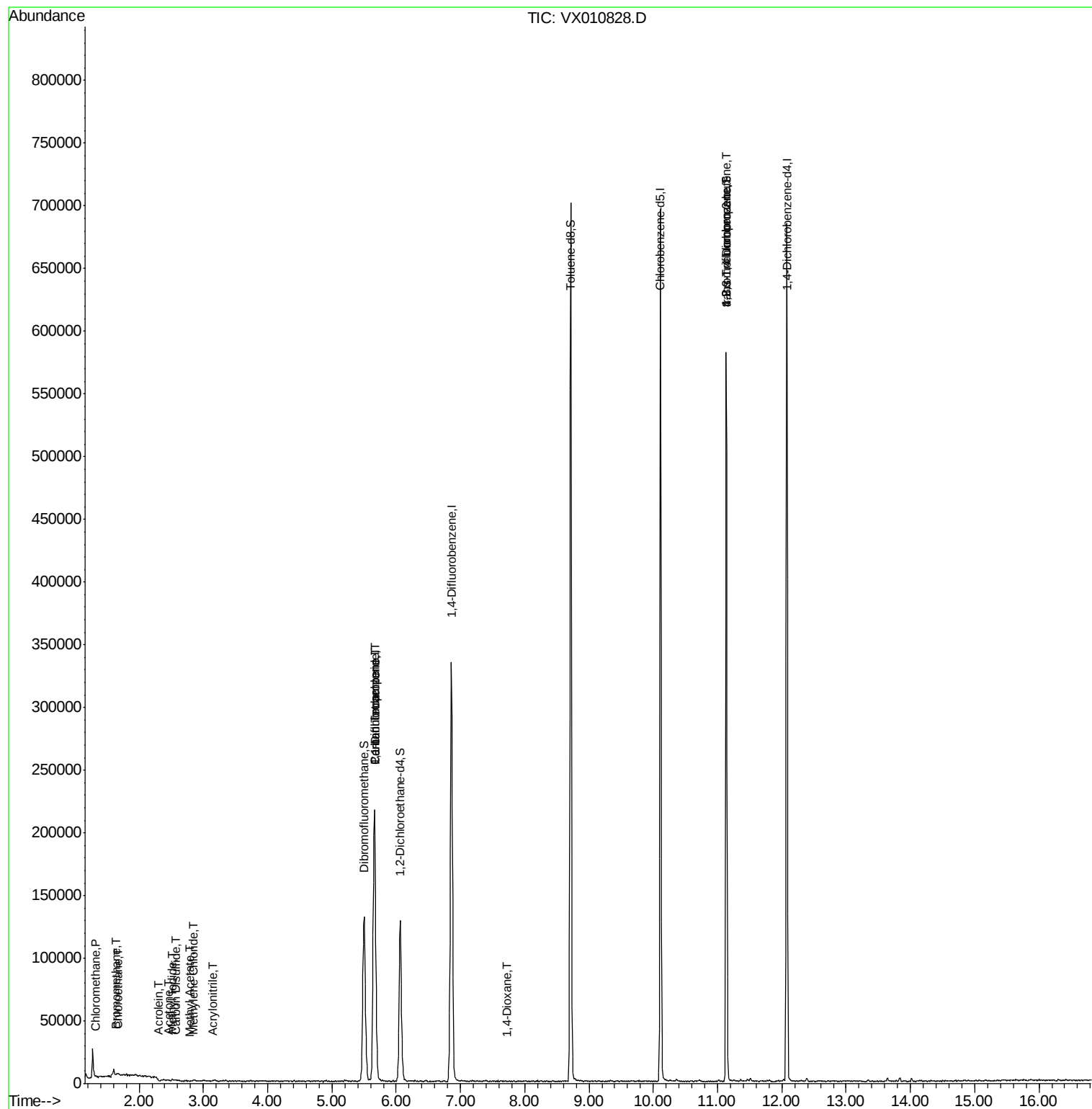
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 703      | 0.384  | ug/l # | 53     |
| 5) Bromomethane                | 1.65  | 94   | 931      | 0.953  | ug/l # | 52     |
| 6) Chloroethane                | 1.68  | 64   | 466      | 0.394  | ug/l # | 61     |
| 10) Methyl Iodide              | 2.51  | 142  | 1321     | 0.481  | ug/l   | 95     |
| 13) Acrolein                   | 2.30  | 56   | 420      | 1.141  | ug/l # | 14     |
| 15) Acrylonitrile              | 3.14  | 53   | 379      | 0.345  | ug/l # | 68     |
| 16) Acetone                    | 2.46  | 43   | 376      | 0.354  | ug/l # | 55     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1254     | 0.238  | ug/l # | 87     |
| 18) Methyl Acetate             | 2.79  | 43   | 477      | 0.225  | ug/l # | 48     |
| 20) Methylene Chloride         | 2.85  | 84   | 529      | 0.242  | ug/l # | 78     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14454    | 5.143  | ug/l # | 44     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 20701    | 6.802  | ug/l # | 14     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 19       | 0.297  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 69259    | 25.991 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 69259    | 60.633 | ug/l # | 16     |

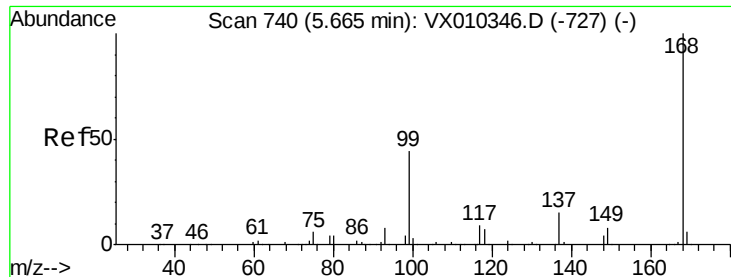
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071219\  
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Quant Time: Jul 13 01:37:40 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010828.D

Acq: 12 Jul 2019 12:09

Instrument :

MSVOA\_X

ClientSampleId :

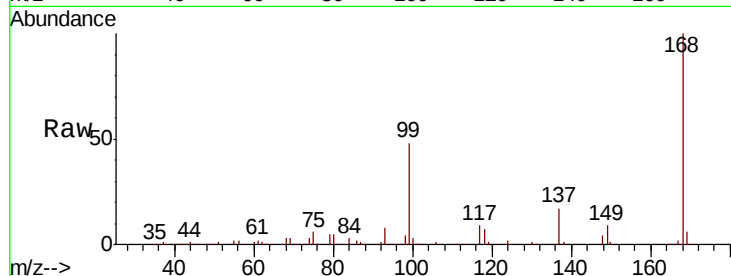
LC-TB03-190711

Tot Ion:168 Resp: 226140

Ion Ratio Lower Upper

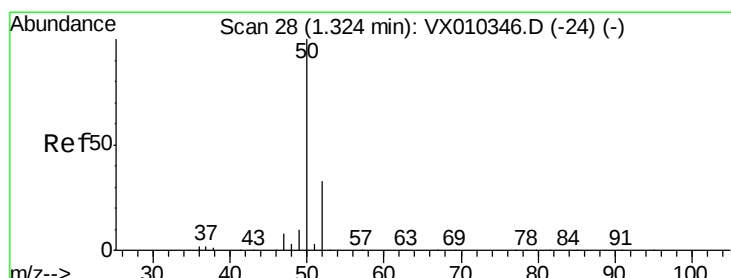
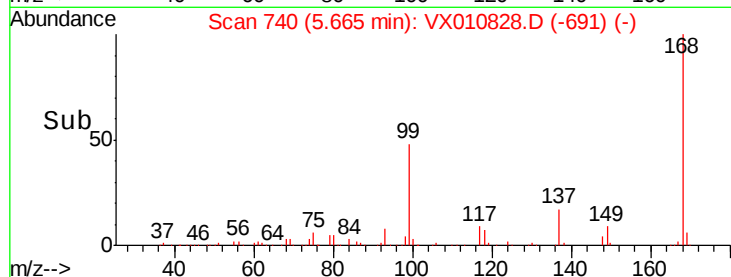
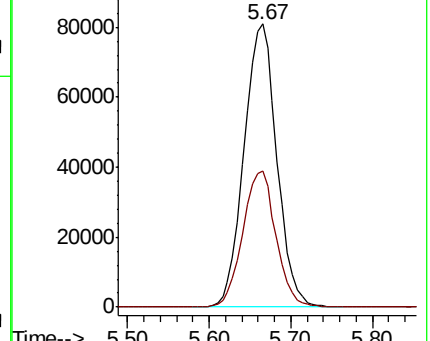
168 100

99 48.0 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.384 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010828.D

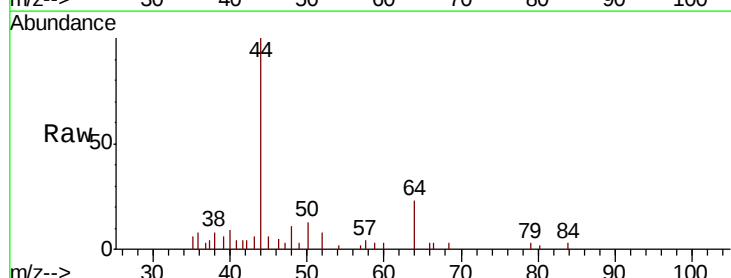
Acq: 12 Jul 2019 12:09

Tgt Ion: 50 Resp: 703

Ion Ratio Lower Upper

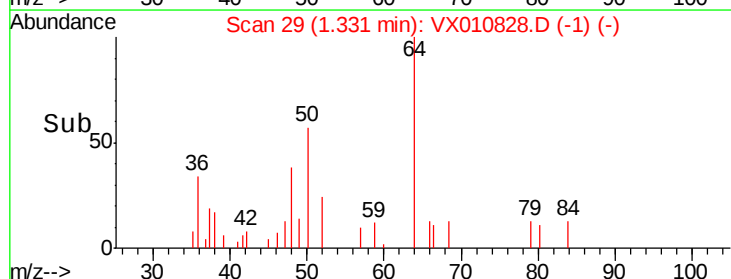
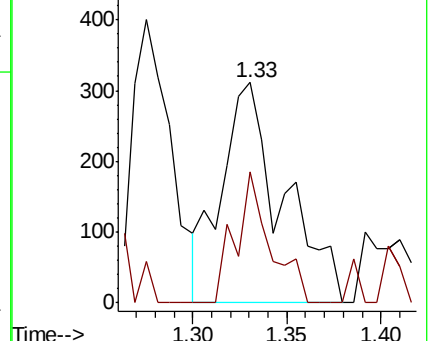
50 100

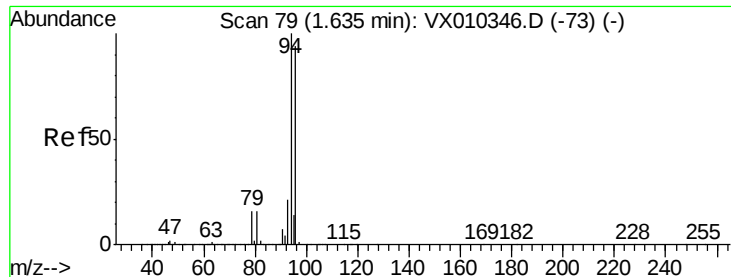
52 59.8 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.953 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010828.D

Acq: 12 Jul 2019 12:09

Instrument :

MSVOA\_X

ClientSampleId :

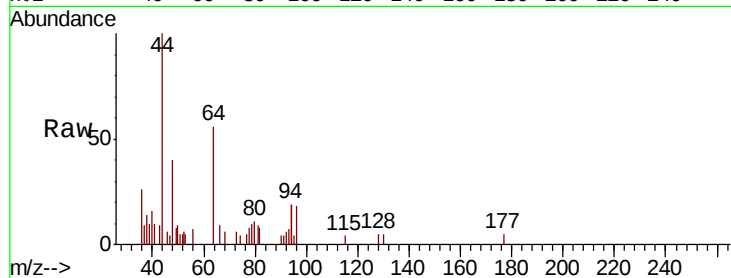
LC-TB03-190711

Tot Ion: 94 Resp: 931

Ion Ratio Lower Upper

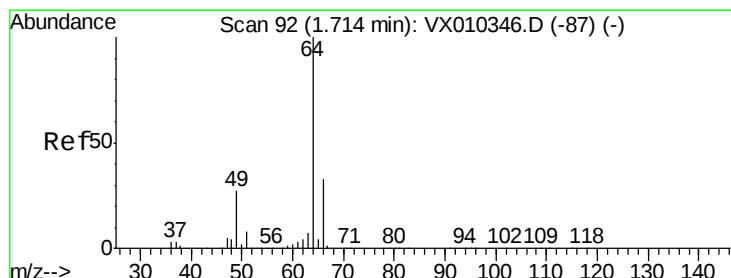
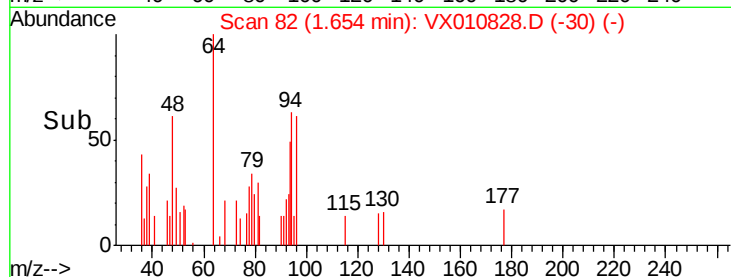
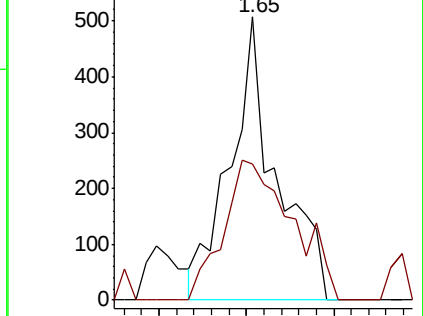
94 100

96 48.3 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.394 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX010828.D

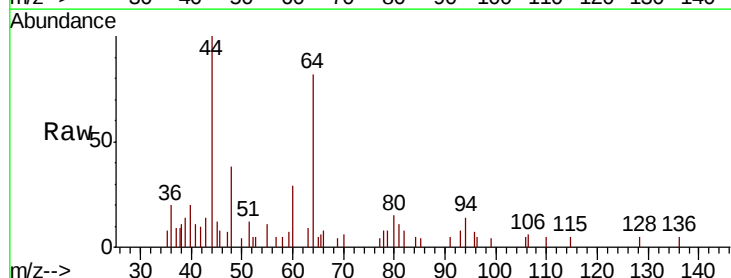
Acq: 12 Jul 2019 12:09

Tgt Ion: 64 Resp: 466

Ion Ratio Lower Upper

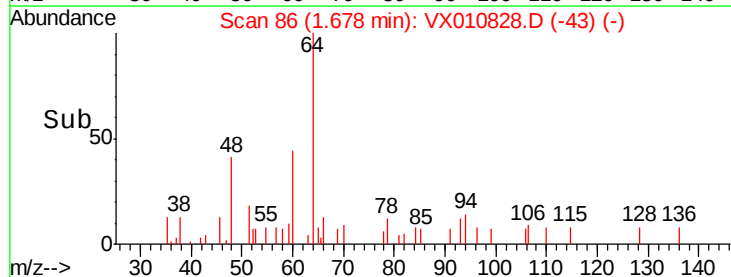
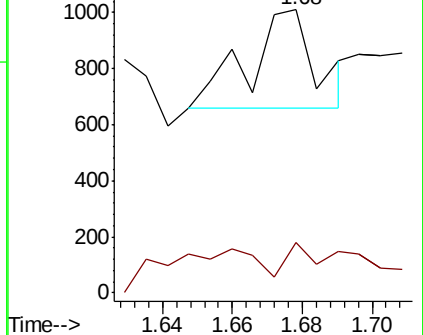
64 100

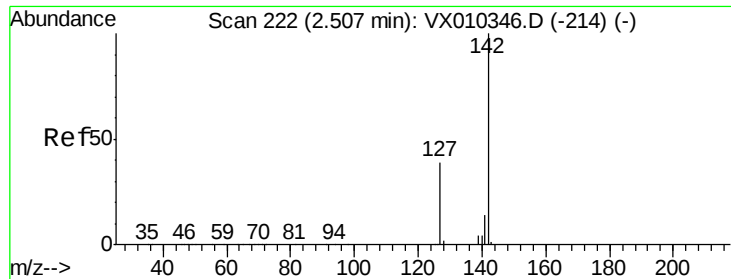
66 11.2 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

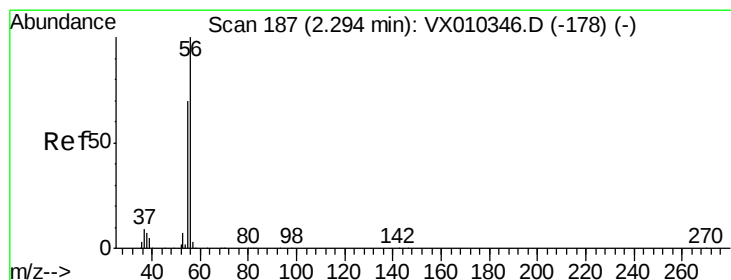
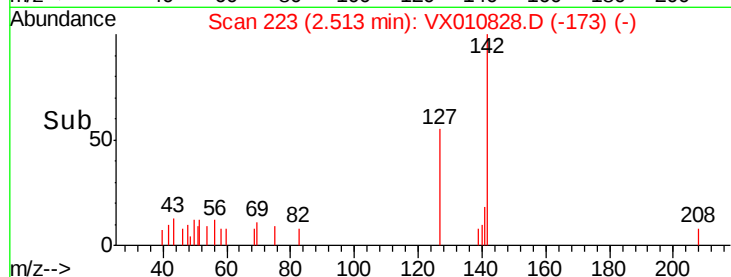
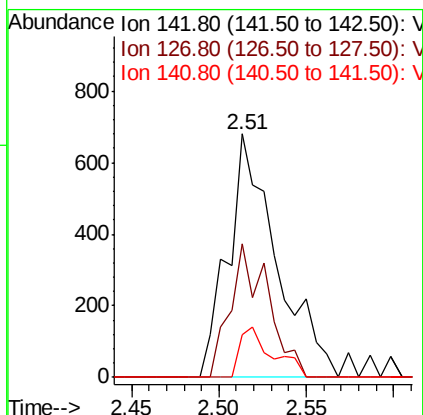
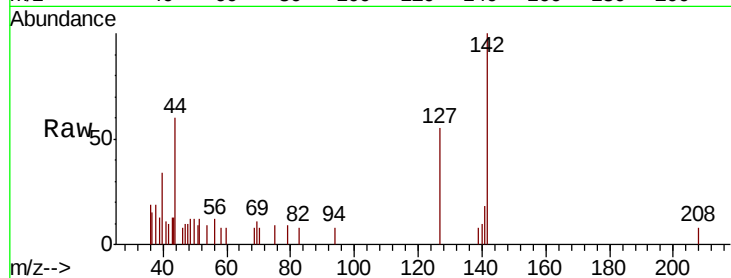




#10  
Methvl Iodide  
Concen: 0.481 ug/l  
RT: 2.51 min Scan# 223  
Delta R.T. 0.01 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

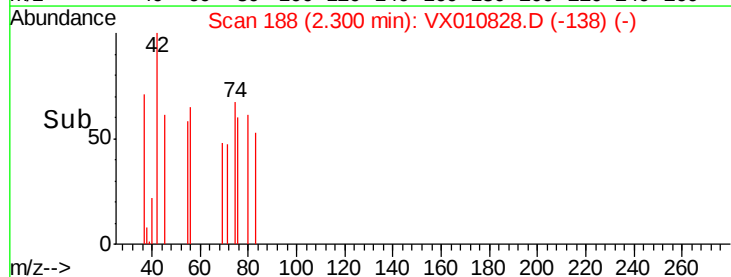
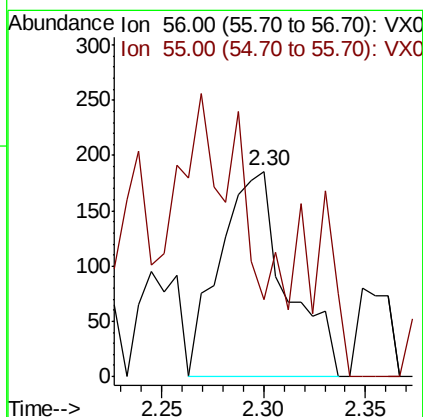
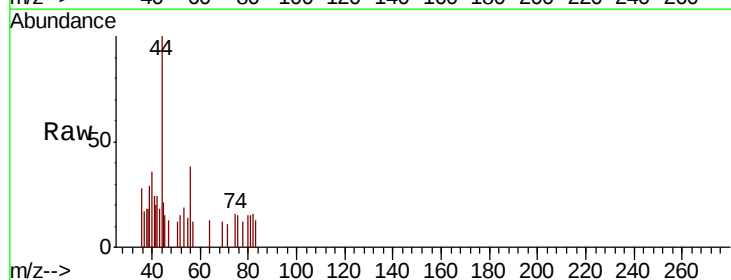
Instrument :  
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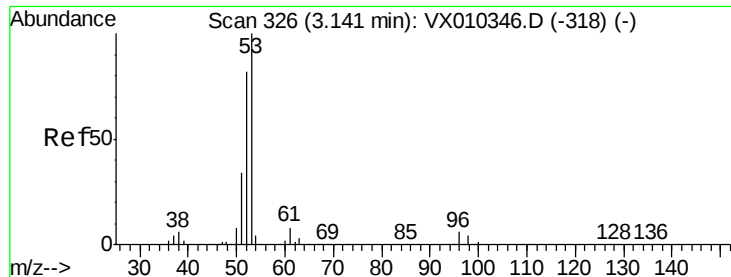
Tot Ion:142 Resp: 1321  
Ion Ratio Lower Upper  
142 100  
127 42.8 31.1 46.7  
141 13.7 11.2 16.8



#13  
Acrolein  
Concen: 1.141 ug/l  
RT: 2.30 min Scan# 188  
Delta R.T. 0.01 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

Tgt Ion: 56 Resp: 420  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.345 ug/l

RT: 3.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX010828.D

Acq: 12 Jul 2019 12:09

Instrument :

MSVOA\_X

ClientSampleId :

LC-TB03-190711

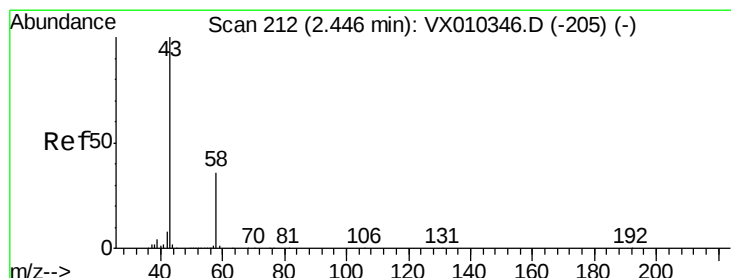
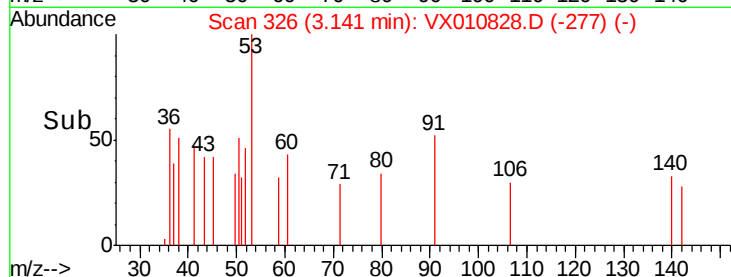
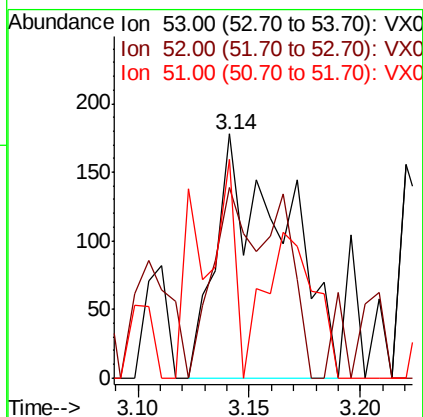
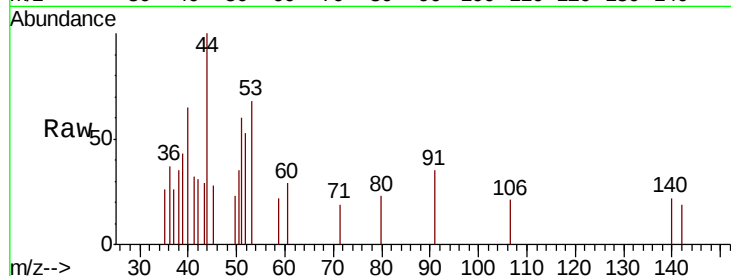
Tot Ion: 53 Resp: 379

Ion Ratio Lower Upper

53 100

52 45.9 65.5 98.3#

51 43.5 28.2 42.4#



#16

Acetone

Concen: 0.354 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX010828.D

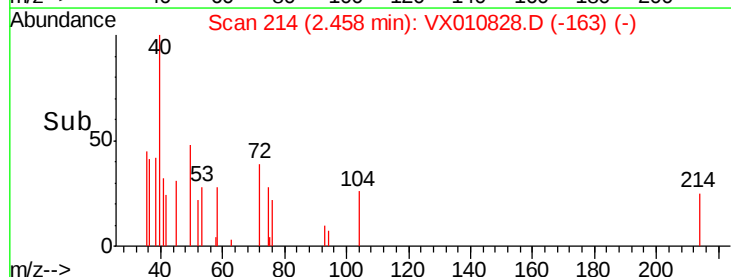
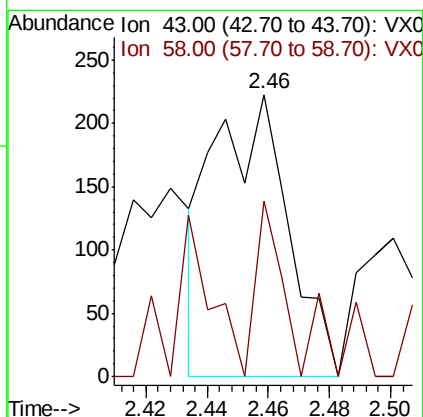
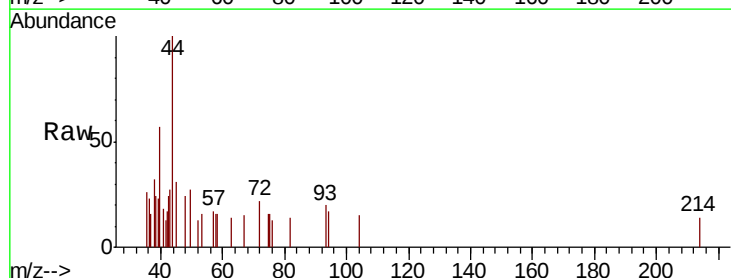
Acq: 12 Jul 2019 12:09

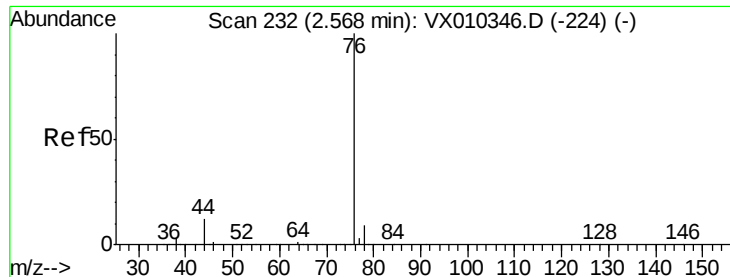
Tgt Ion: 43 Resp: 376

Ion Ratio Lower Upper

43 100

58 62.3 28.9 43.3#

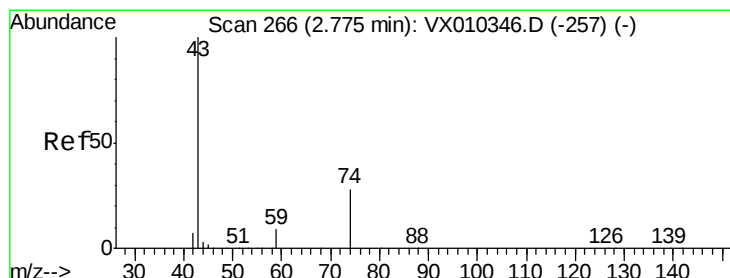
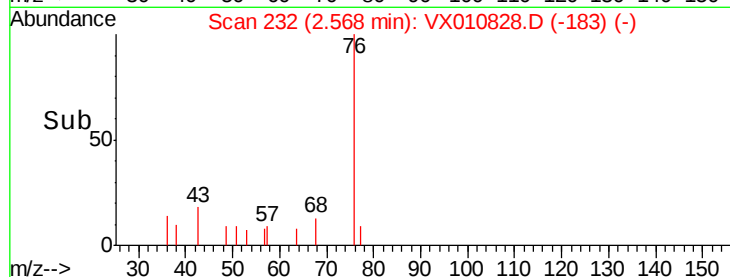
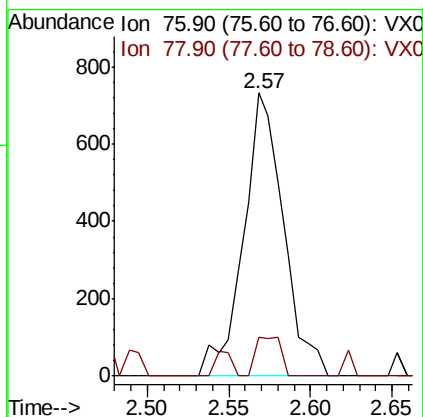
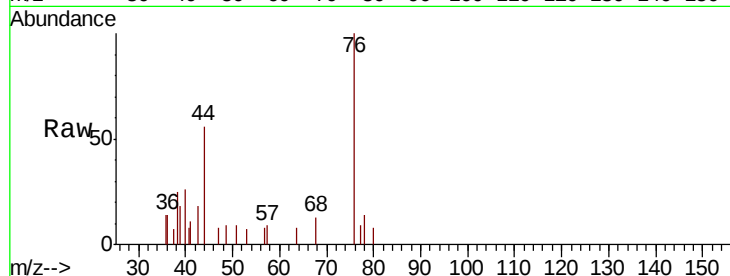




#17  
Carbon Disulfide  
Concen: 0.238 ug/l  
RT: 2.57 min Scan# 232  
Delta R.T. 0.00 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

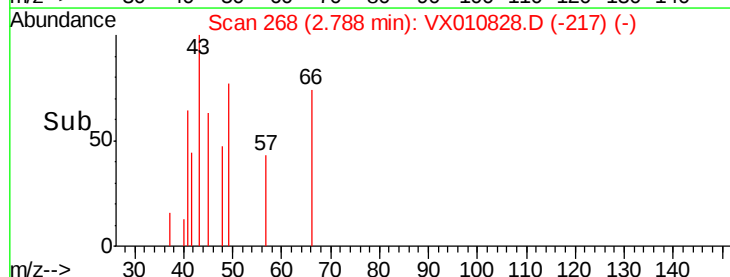
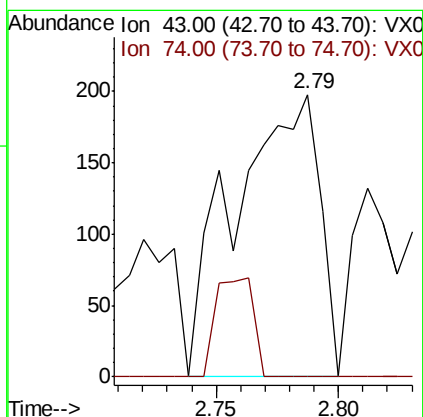
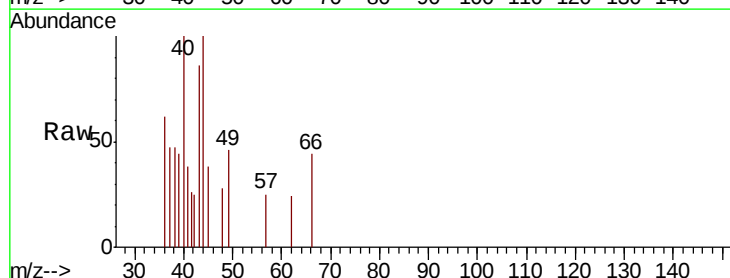
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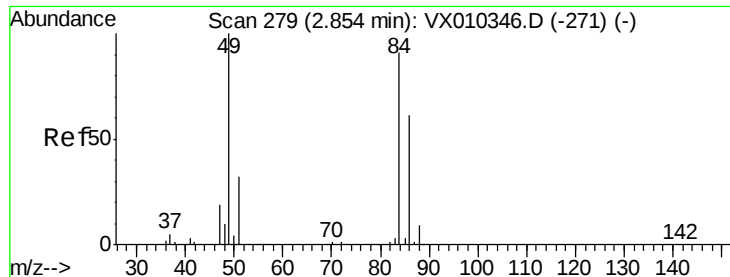
Tot Ion: 76 Resp: 1254  
Ion Ratio Lower Upper  
76 100  
78 13.8 7.3 10.9#



#18  
Methyl Acetate  
Concen: 0.225 ug/l  
RT: 2.79 min Scan# 268  
Delta R.T. 0.01 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

Tgt Ion: 43 Resp: 477  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.3 31.9#

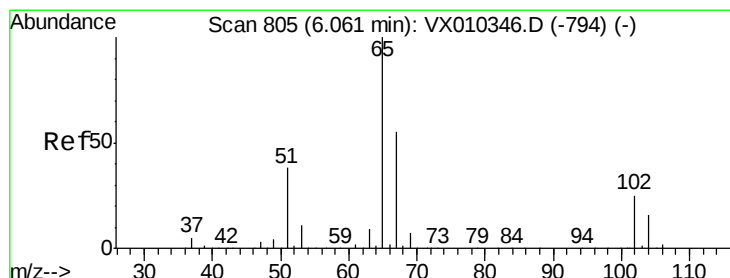
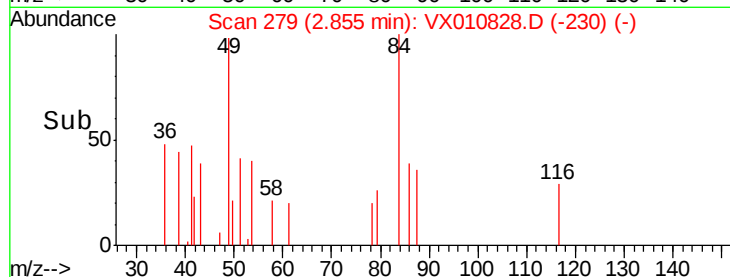
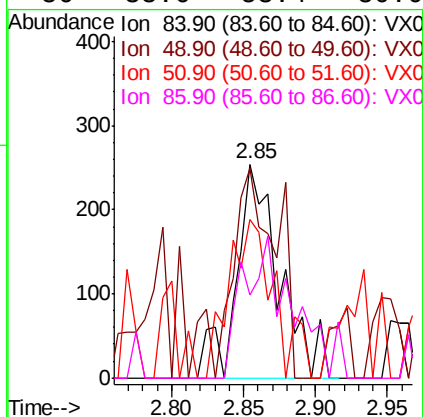
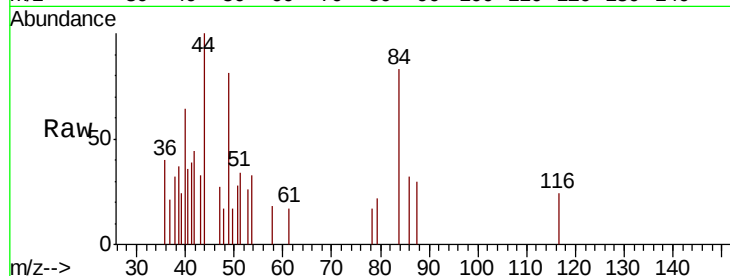




#20  
Methylene Chloride  
Concen: 0.242 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. 0.00 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

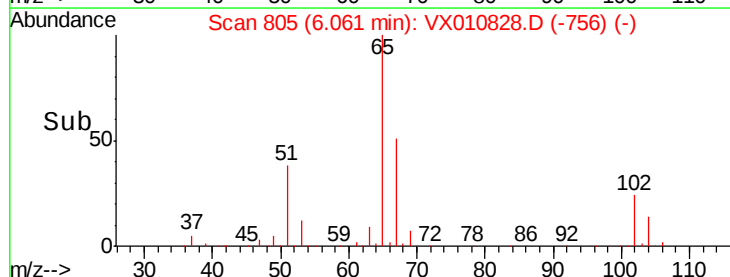
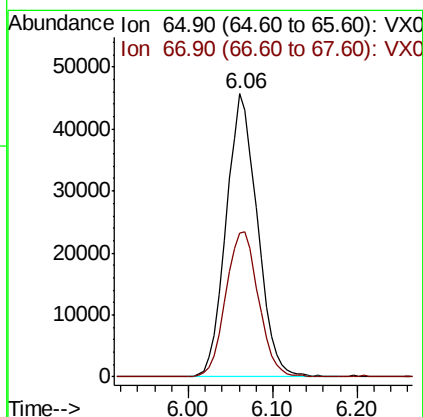
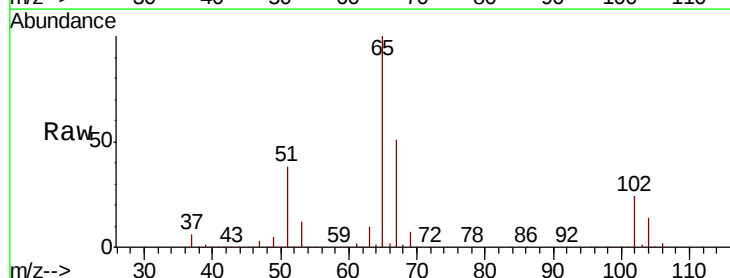
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MSVOA\_X  
ClientSampleId :  
LC-TB03-190711

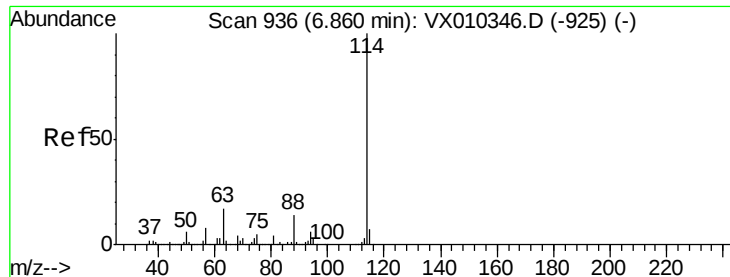
Tot Ion: 84 Resp: 529  
Ion Ratio Lower Upper  
84 100  
49 98.0 87.5 131.3  
51 52.4 27.7 41.5#  
86 38.6 53.4 80.0#



#33  
1,2-Dichloroethane-d4  
Concen: 54.402 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

Tgt Ion: 65 Resp: 115348  
Ion Ratio Lower Upper  
65 100  
67 53.8 0.0 110.2

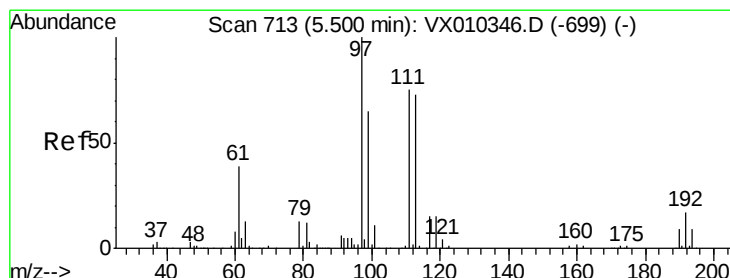
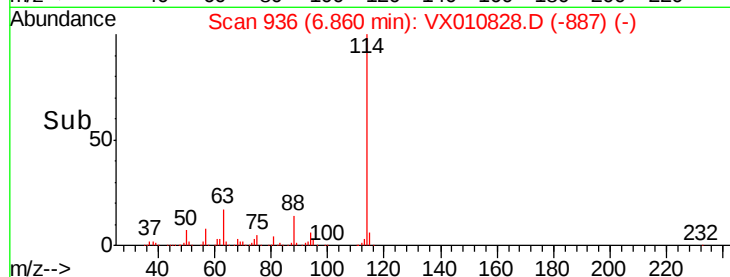
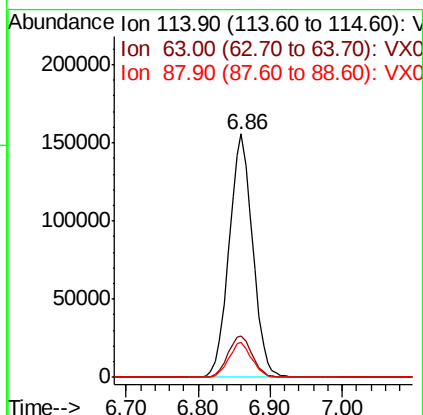
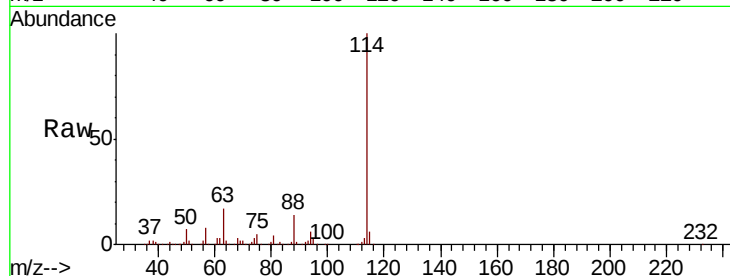




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. 0.00 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

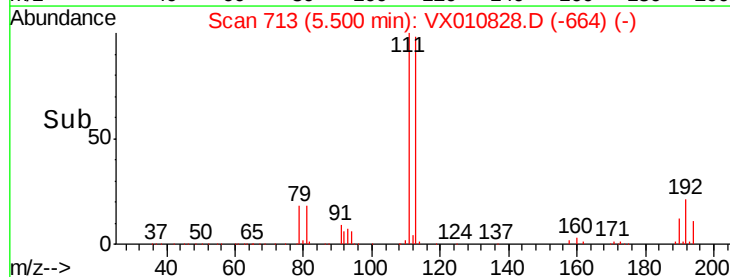
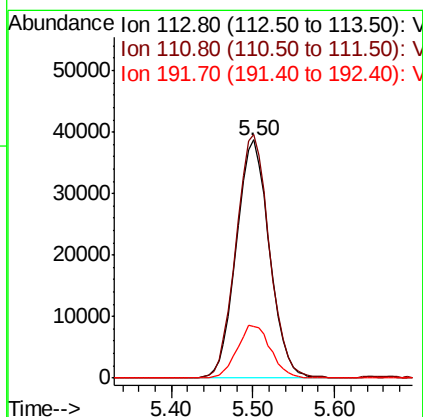
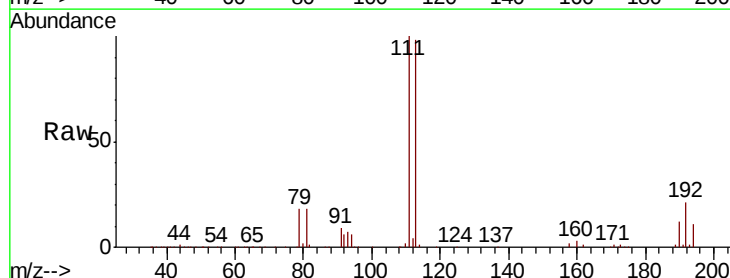
Instrument :  
MSVOA\_X  
ClientSampleId :  
LC-TB03-190711

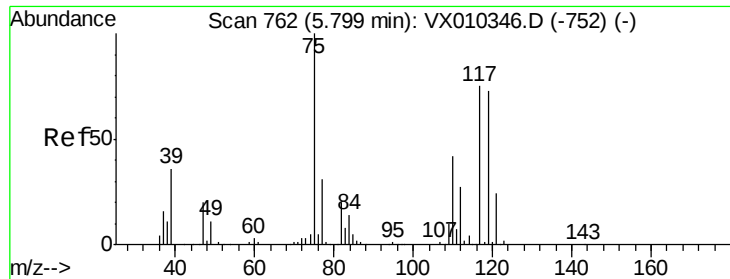
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 17.0  | 0.0   | 33.8  |
| 88      | 14.2  | 0.0   | 27.6  |



#35  
Dibromofluoromethane  
Concen: 50.356 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. 0.00 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.3 | 81.2  | 121.8 |
| 192     | 22.5  | 18.6  | 27.8  |

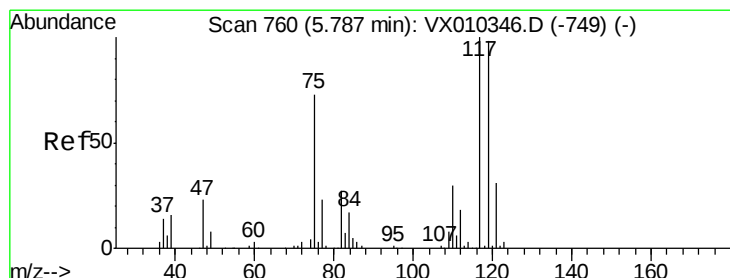
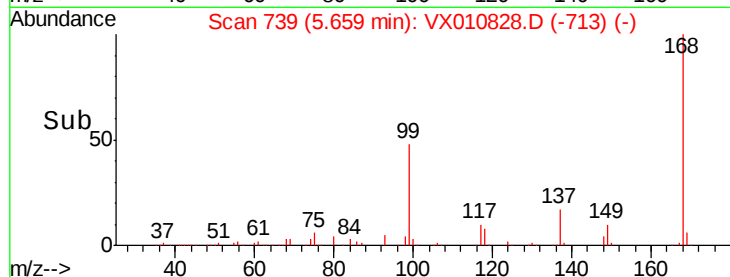
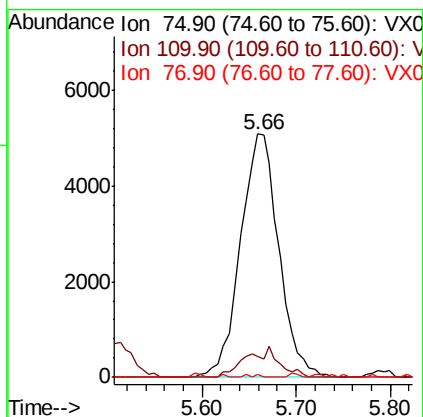
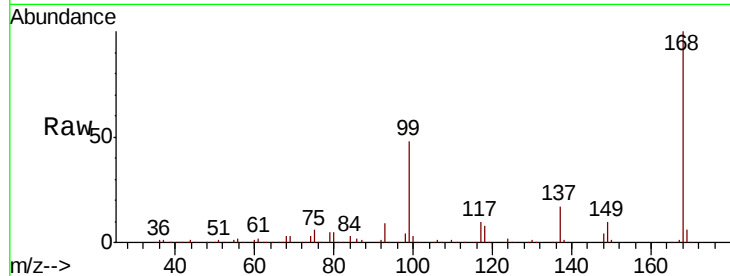




#36  
 1,1-Dichloropropene  
 Concen: 5.143 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX010828.D  
 Acq: 12 Jul 2019 12:09

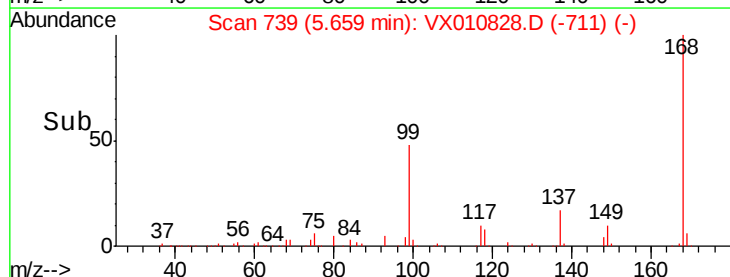
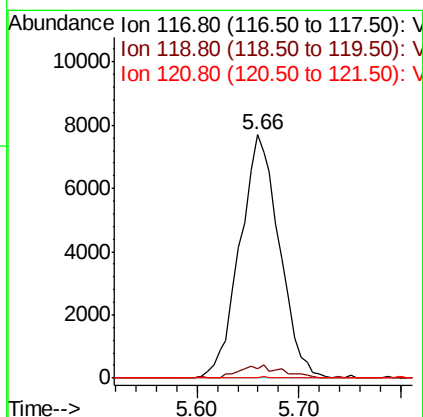
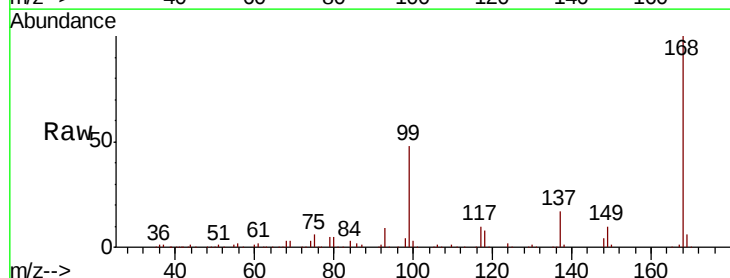
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LC-TB03-190711

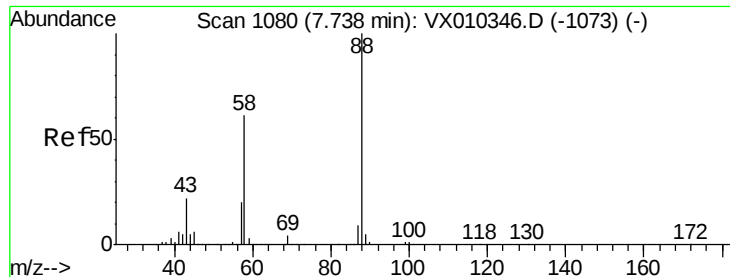
| Tot Ion   | 75  | Resp  | 14454 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 75        | 100 |       |       |
| 110       | 6.4 | 20.8  | 62.2# |
| 77        | 0.1 | 25.4  | 38.0# |



#38  
 Carbon Tetrachloride  
 Concen: 6.802 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.13 min  
 Lab File: VX010828.D  
 Acq: 12 Jul 2019 12:09

| Tgt Ion                                              | 117 | Resp  | 20701  |
|------------------------------------------------------|-----|-------|--------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100 | Lower | Upper  |
| 117                                                  | 100 |       |        |
| 119                                                  | 4.1 | 78.2  | 117.4# |
| 121                                                  | 0.0 | 24.7  | 37.1#  |

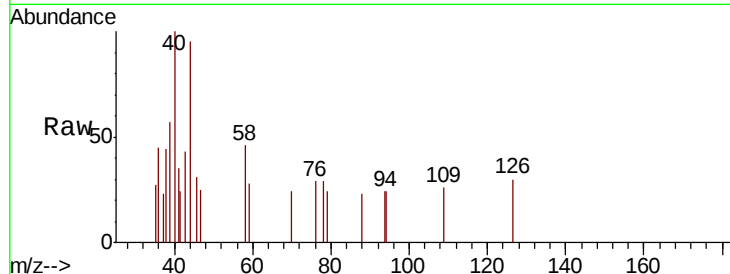




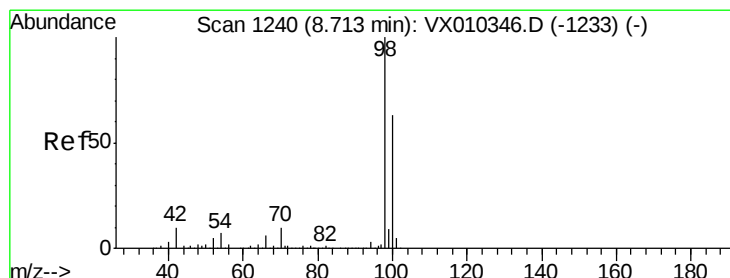
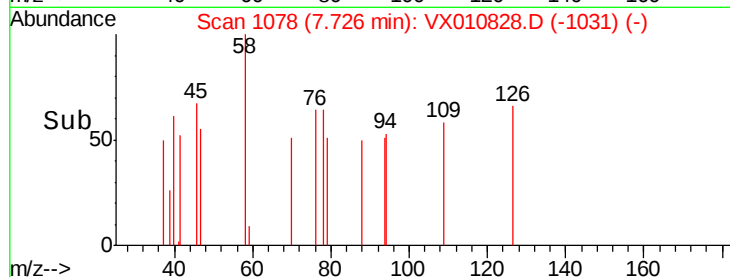
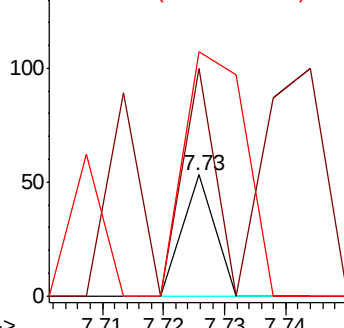
#49  
1,4-Dioxane  
Concen: 0.297 ug/l  
RT: 7.73 min Scan# 1078  
Delta R.T. -0.01 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
LC-TB03-190711

Tot Ion: 88 Resp: 19  
Ion Ratio Lower Upper  
88 100  
43 194.7 20.2 30.2#  
58 394.7 49.5 74.3#

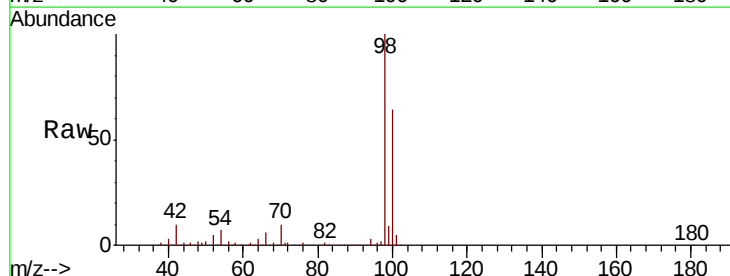


Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0

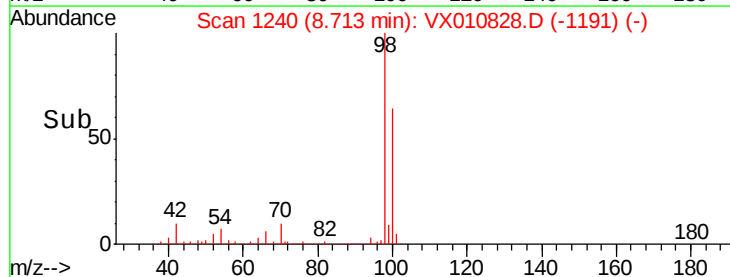
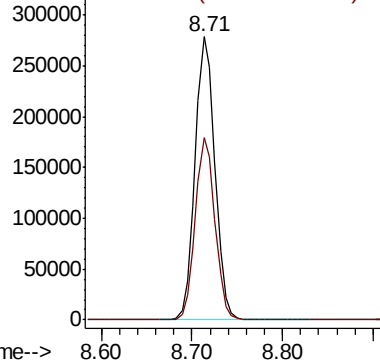


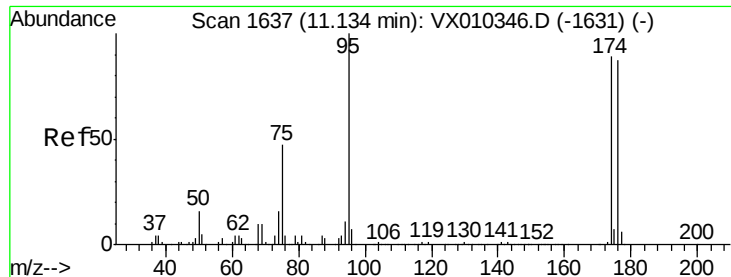
#50  
Toluene-d8  
Concen: 51.286 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

Tgt Ion: 98 Resp: 424584  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

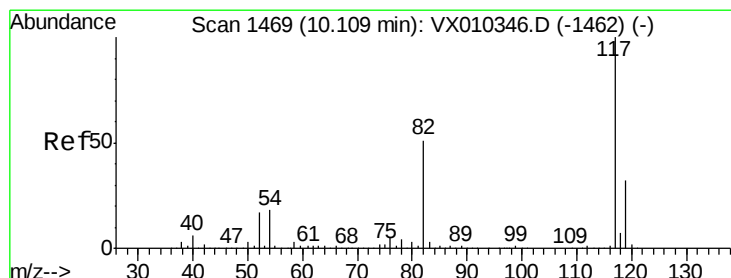
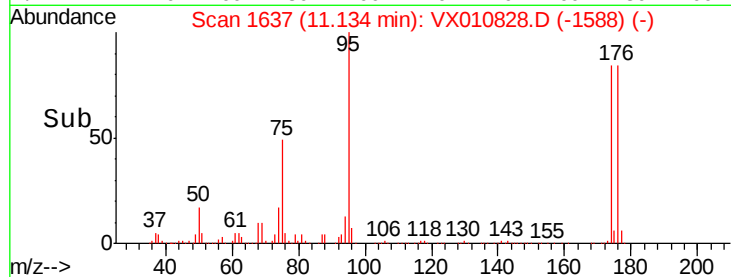
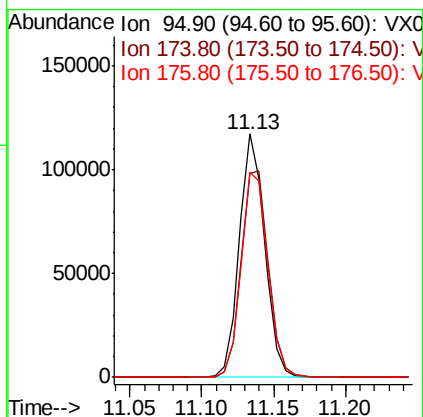
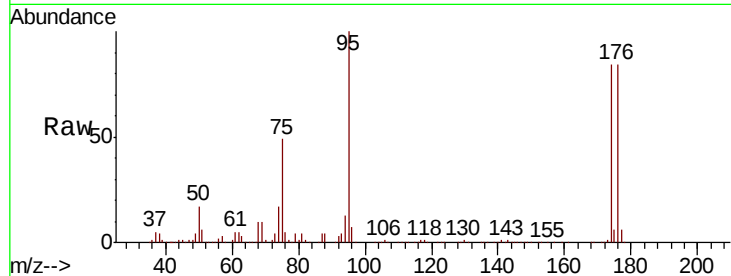




#62  
4-Bromofluorobenzene  
Concen: 48.122 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

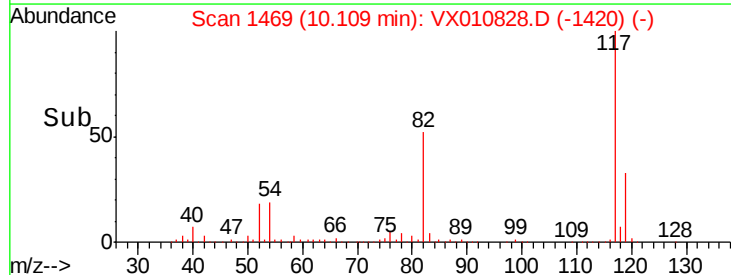
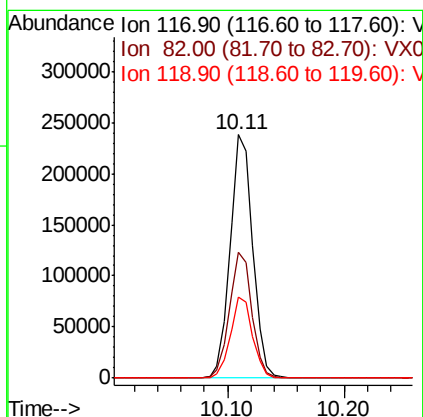
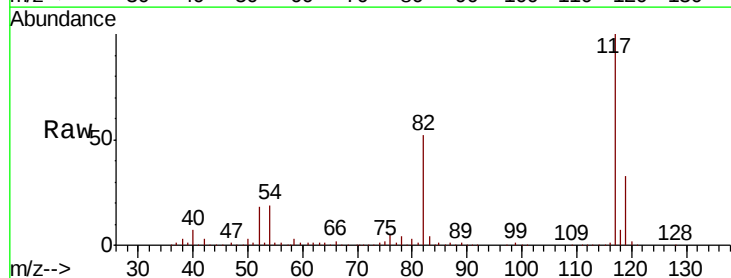
Instrument :  
MSVOA\_X  
ClientSampleId :  
LC-TB03-190711

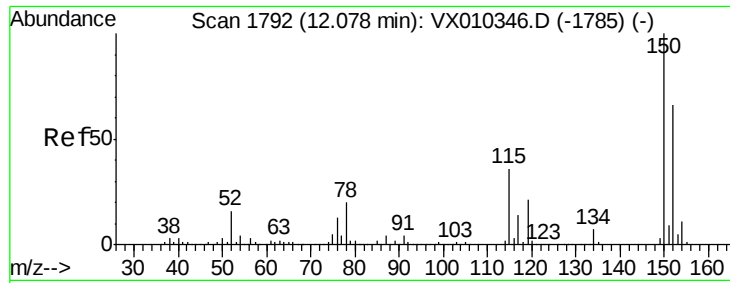
Tot Ion: 95 Resp: 143829  
Ion Ratio Lower Upper  
95 100  
174 90.6 0.0 187.6  
176 88.3 0.0 184.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010828.D  
Acq: 12 Jul 2019 12:09

Tgt Ion: 117 Resp: 321107  
Ion Ratio Lower Upper  
117 100  
82 52.0 41.2 61.8  
119 33.0 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010828.D

Acq: 12 Jul 2019 12:09

Instrument :

MSVOA\_X

ClientSampleId :

LC-TB03-190711

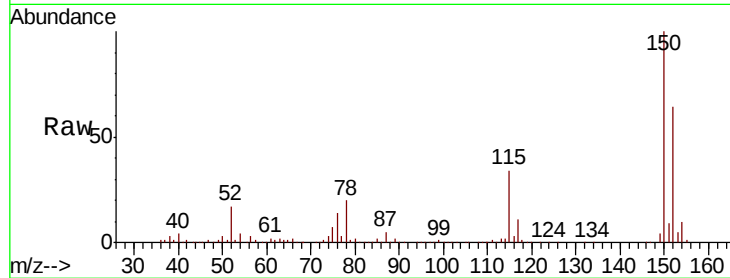
Tot Ion:152 Resp: 146234

Ion Ratio Lower Upper

152 100

115 55.1 38.6 115.7

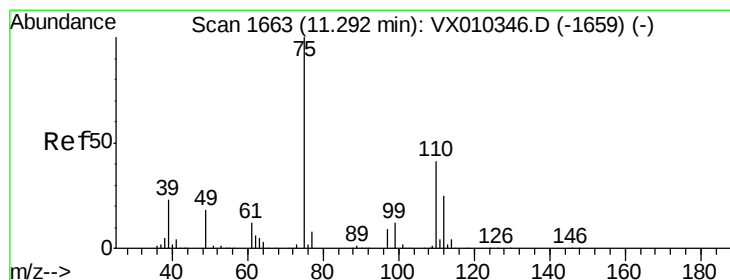
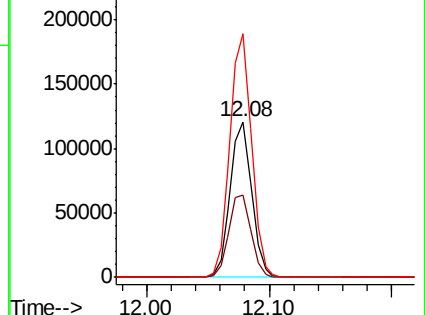
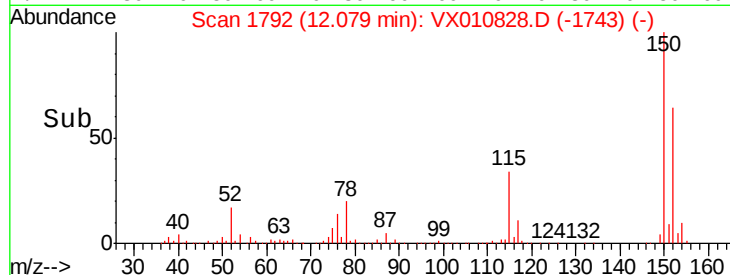
150 157.6 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.991 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010828.D

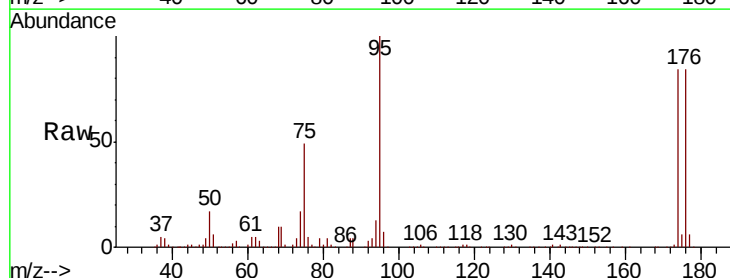
Acq: 12 Jul 2019 12:09

Tgt Ion: 75 Resp: 69259

Ion Ratio Lower Upper

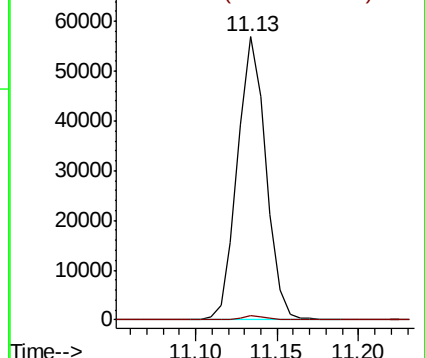
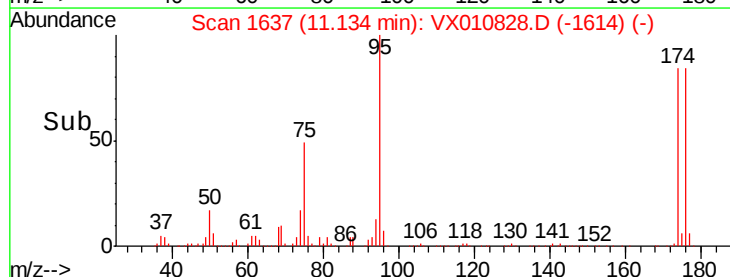
75 100

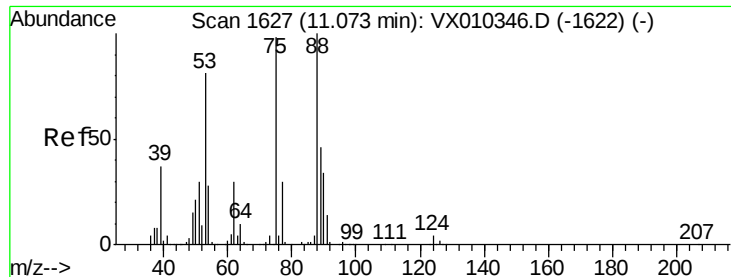
77 1.5 22.6 67.8#



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: 60.633 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010828.D

Acq: 12 Jul 2019 12:09

Instrument :

MSVOA\_X

ClientSampleId :

LC-TB03-190711

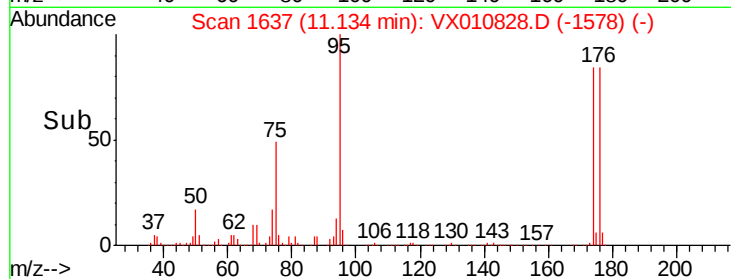
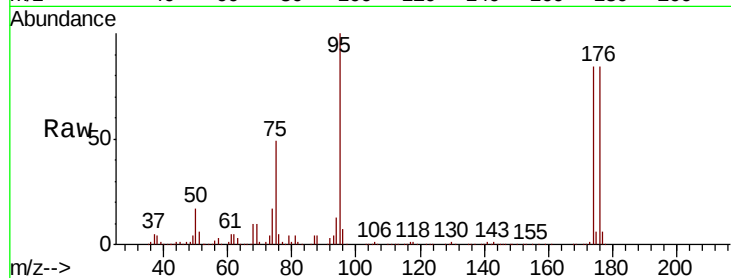
Tot Ion: 75 Resp: 69259

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

89 0.0 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

