

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070319\  
 Data File : VX010655.D  
 Acq On : 03 Jul 2019 21:05  
 Operator : JC/SP  
 Sample : K3680-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-1R

Quant Time: Jul 04 03:39:54 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  | 227548   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 355861   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 320348   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 145079   | 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   | 114331   | 53.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.18% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 107883   | 49.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.10%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 421076   | 50.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.10% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 138700   | 46.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.24%  |          |

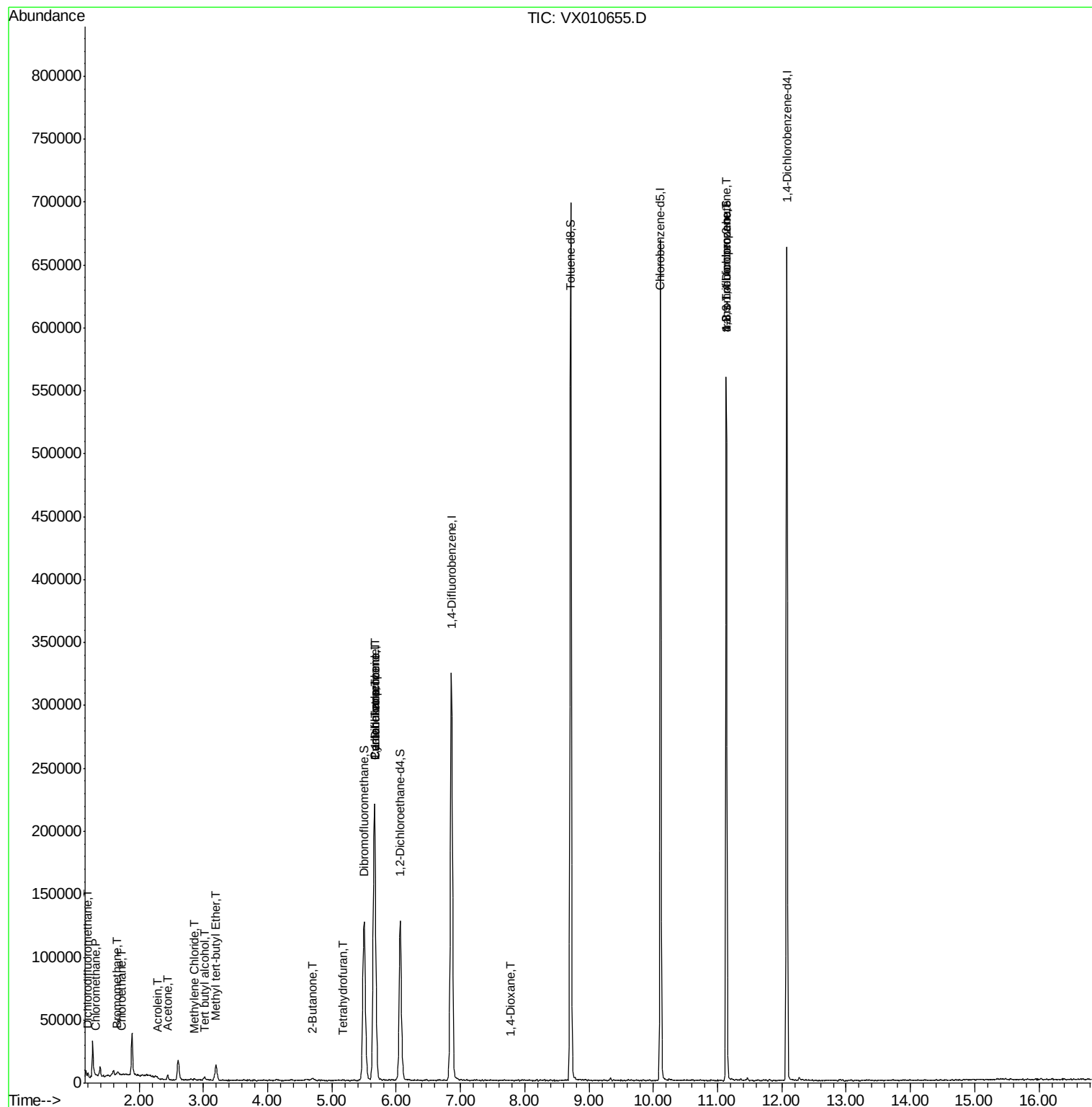
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.20  | 85   | 359      | 0.227  | ug/l   | 85     |
| 3) Chloromethane               | 1.32  | 50   | 549      | 0.298  | ug/l   | 89     |
| 5) Bromomethane                | 1.65  | 94   | 329      | 0.335  | ug/l   | 99     |
| 6) Chloroethane                | 1.73  | 64   | 264      | 0.222  | ug/l   | 97     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 1551     | 2.778  | ug/l # | 74     |
| 13) Acrolein                   | 2.29  | 56   | 259      | 0.699  | ug/l # | 64     |
| 16) Acetone                    | 2.45  | 43   | 4004     | 3.745  | ug/l   | 95     |
| 19) Methyl tert-butyl Ether    | 3.20  | 73   | 14314    | 2.307  | ug/l   | 97     |
| 20) Methylene Chloride         | 2.87  | 84   | 477      | 0.217  | ug/l # | 63     |
| 25) 2-Butanone                 | 4.69  | 43   | 346      | 0.221  | ug/l # | 46     |
| 29) Tetrahydrofuran            | 5.17  | 42   | 817      | 0.841  | ug/l # | 52     |
| 31) Cyclohexane                | 5.66  | 56   | 4374     | 1.419  | ug/l # | 5      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 14910    | 5.273  | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 20600    | 6.727  | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.79  | 88   | 21       | 0.326  | ug/l # | 50     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 68264    | 25.821 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 68264    | 60.238 | ug/l # | 16     |

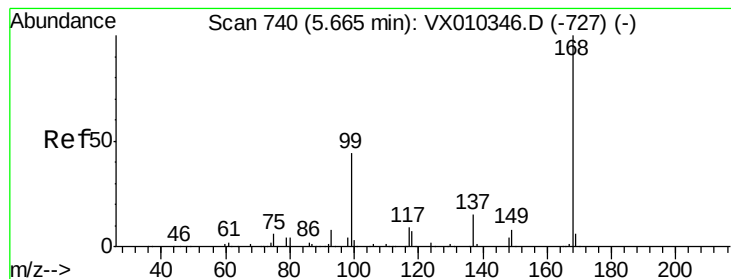
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX070319\  
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Sample : K3680-01  
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ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-1R

Quant Time: Jul 04 03:39:54 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: VX010655.D

Acq: 03 Jul 2019 21:05

Instrument :

MSVOA\_X

ClientSampleId :

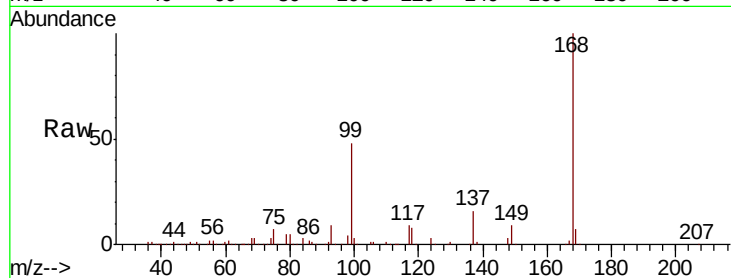
MW-1R

Tot Ion:168 Resp: 227548

Ion Ratio Lower Upper

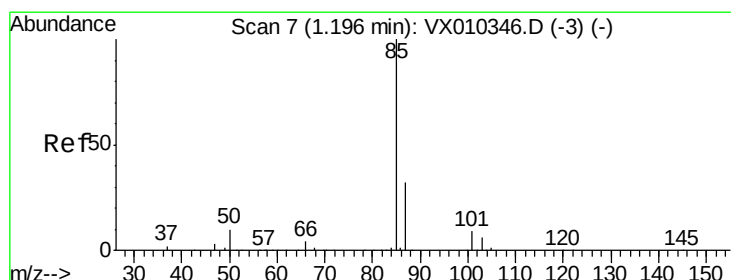
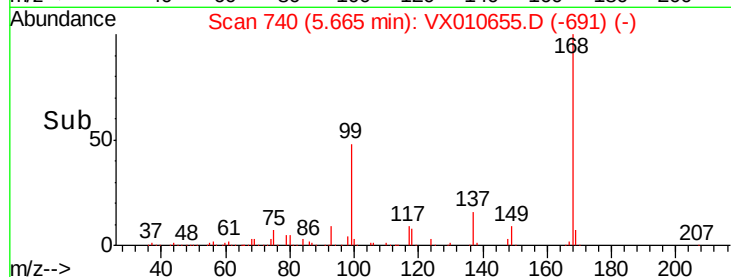
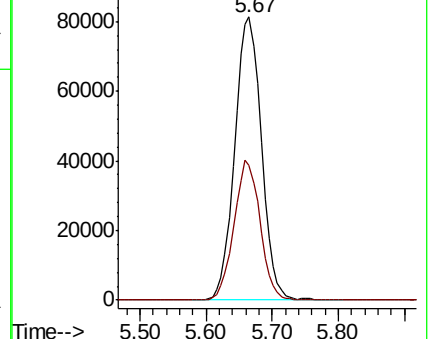
168 100

99 47.5 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.227 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX010655.D

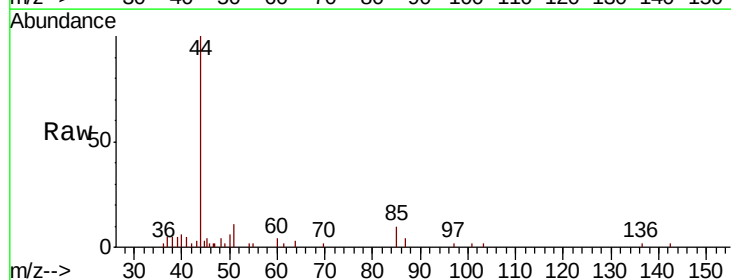
Acq: 03 Jul 2019 21:05

Tgt Ion: 85 Resp: 359

Ion Ratio Lower Upper

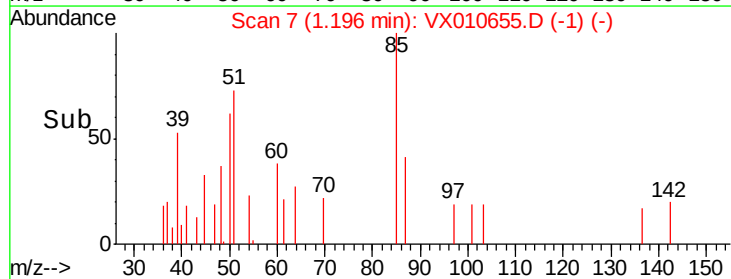
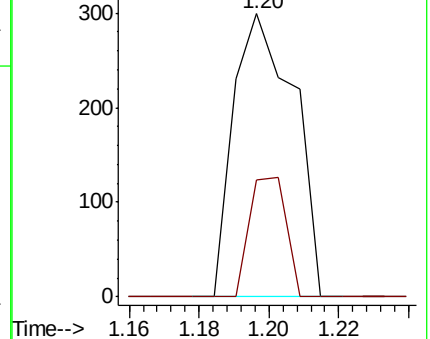
85 100

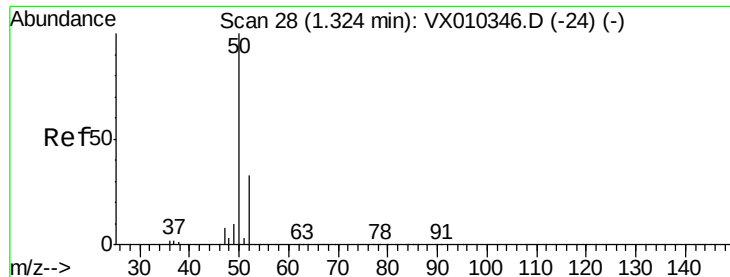
87 41.1 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.298 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010655.D

Acq: 03 Jul 2019 21:05

Instrument :

MSVOA\_X

ClientSampled :

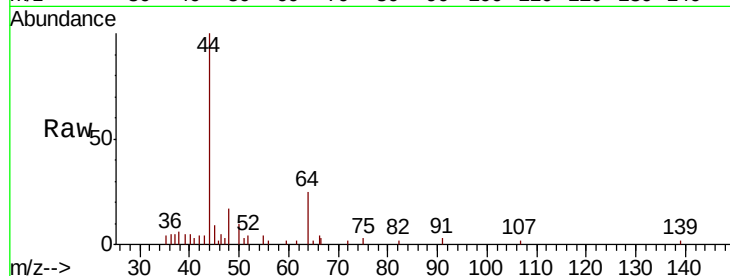
MW-1R

Tot Ion: 50 Resp: 549

Ion Ratio Lower Upper

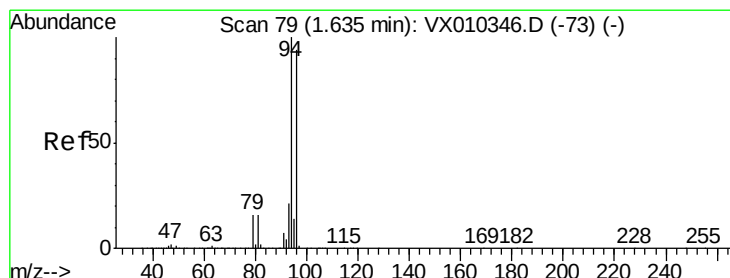
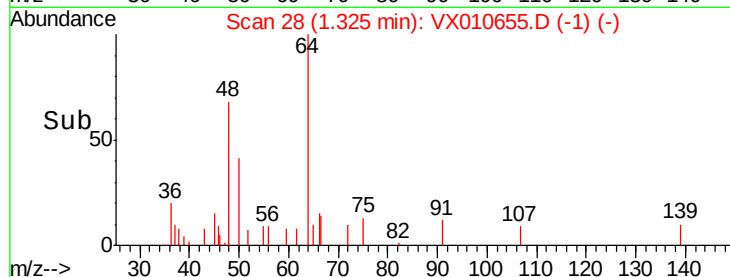
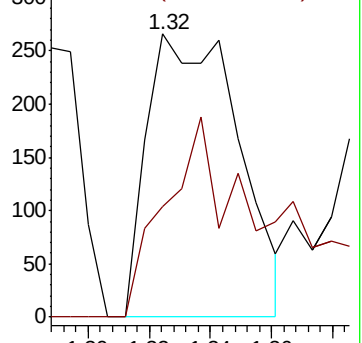
50 100

52 39.1 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: 0.335 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010655.D

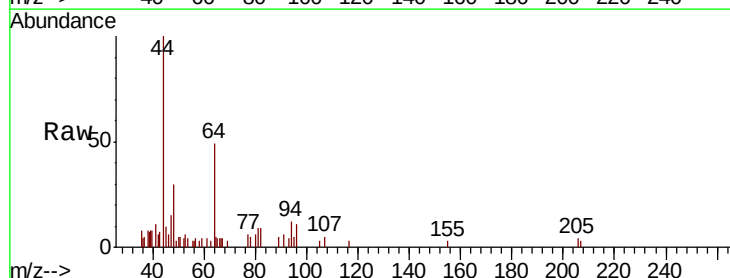
Acq: 03 Jul 2019 21:05

Tgt Ion: 94 Resp: 329

Ion Ratio Lower Upper

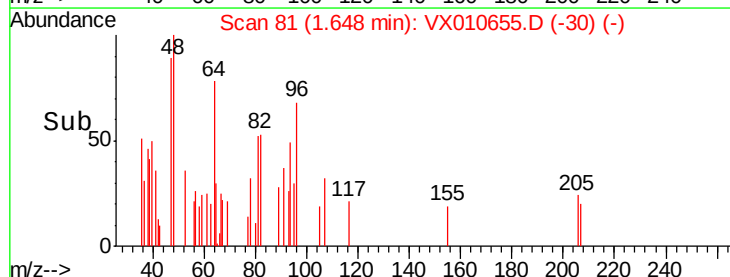
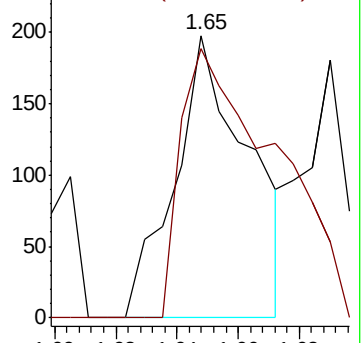
94 100

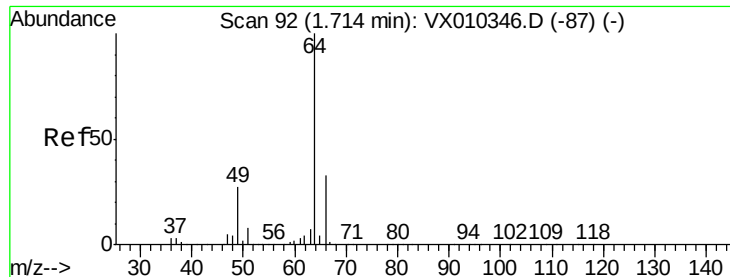
96 95.5 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.222 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX010655.D

Acq: 03 Jul 2019 21:05

Instrument :

MSVOA\_X

ClientSampleId :

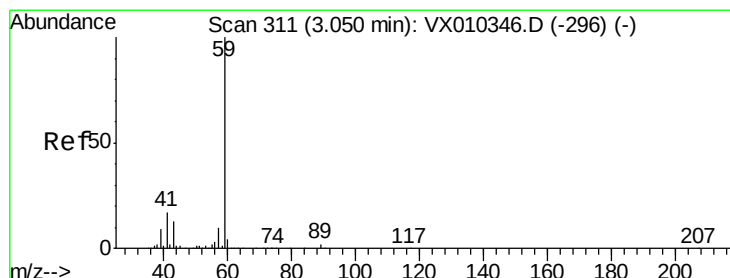
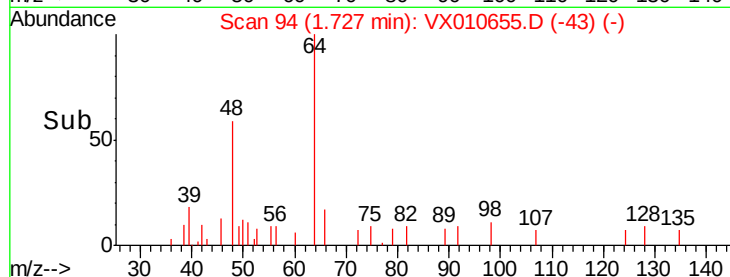
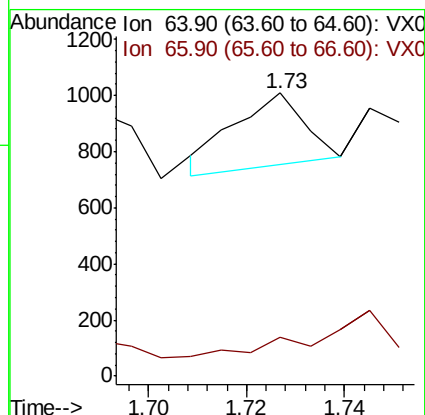
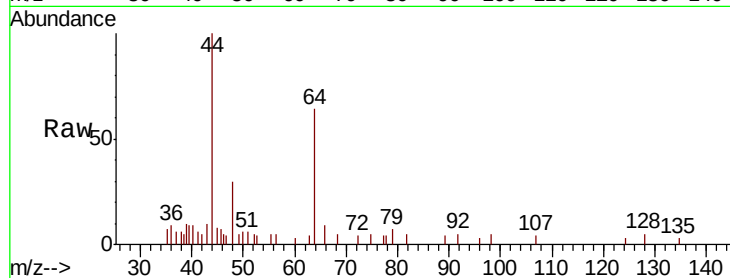
MW-1R

Tot Ion: 64 Resp: 264

Ion Ratio Lower Upper

64 100

66 31.9 26.6 40.0



#11

Tert butyl alcohol

Concen: 2.778 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX010655.D

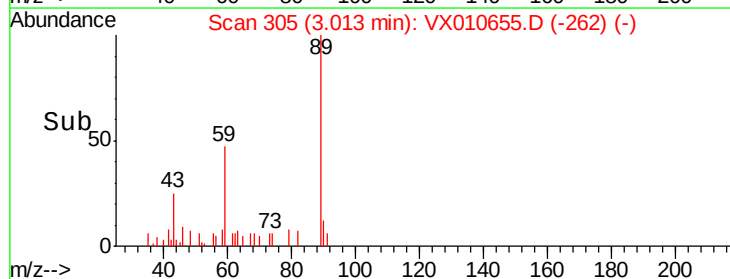
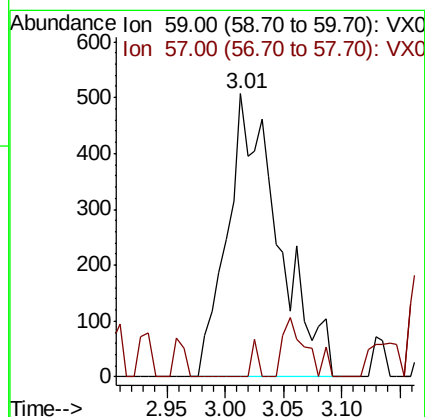
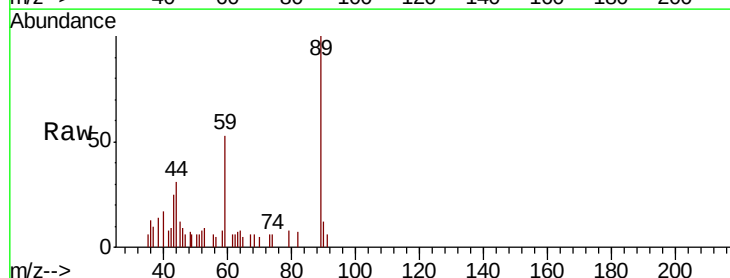
Acq: 03 Jul 2019 21:05

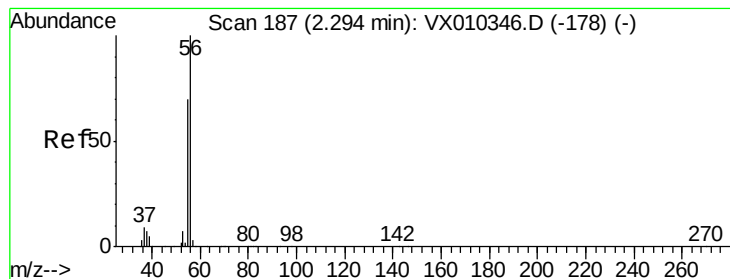
Tgt Ion: 59 Resp: 1551

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#





#13

Acrolein

Concen: 0.699 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010655.D

Acq: 03 Jul 2019 21:05

Instrument :

MSVOA\_X

ClientSampled :

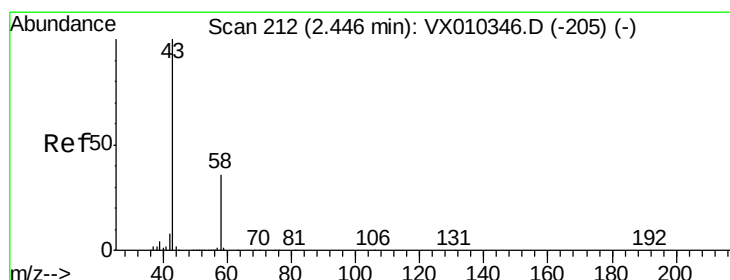
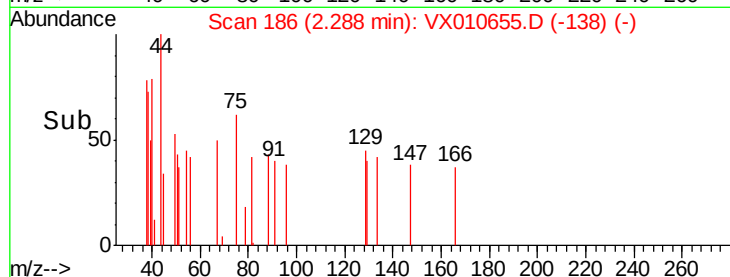
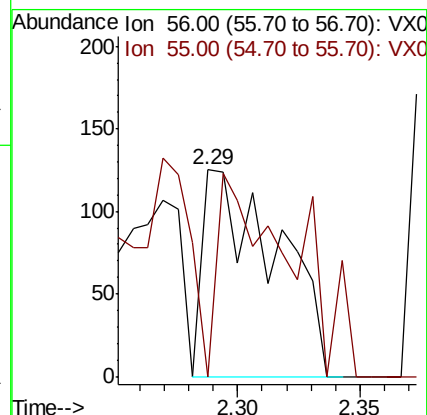
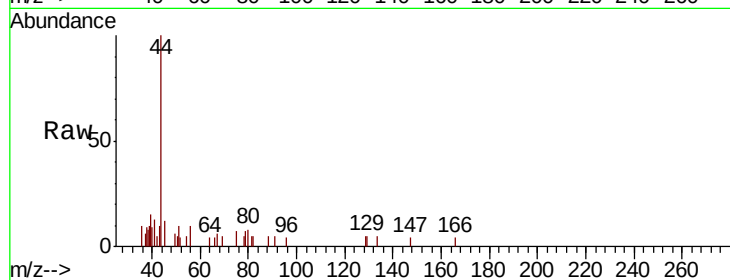
MW-1R

Tot Ion: 56 Resp: 259

Ion Ratio Lower Upper

56 100

55 100.8 56.9 85.3#



#16

Acetone

Concen: 3.745 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010655.D

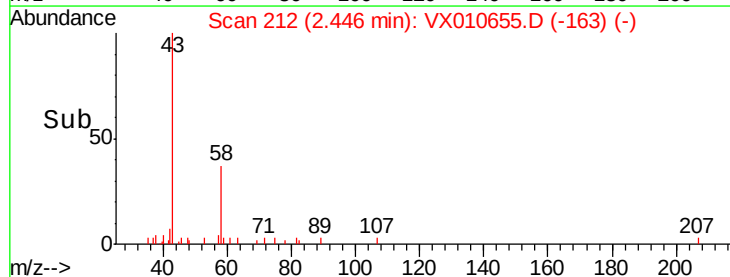
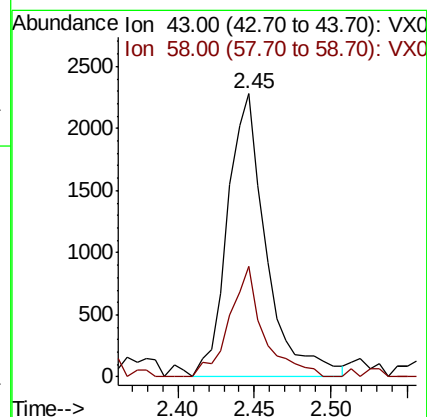
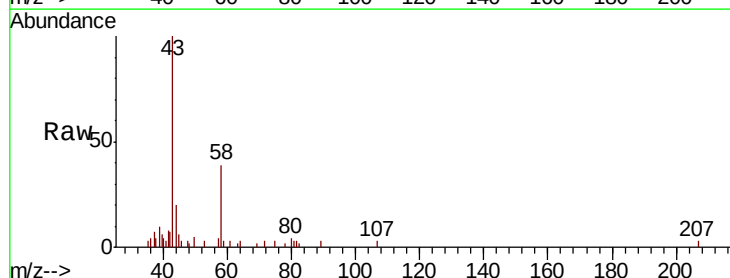
Acq: 03 Jul 2019 21:05

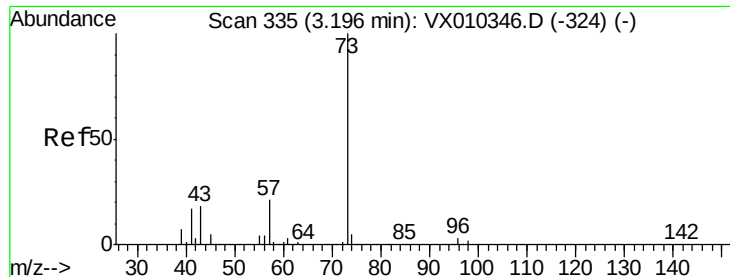
Tgt Ion: 43 Resp: 4004

Ion Ratio Lower Upper

43 100

58 39.1 28.9 43.3



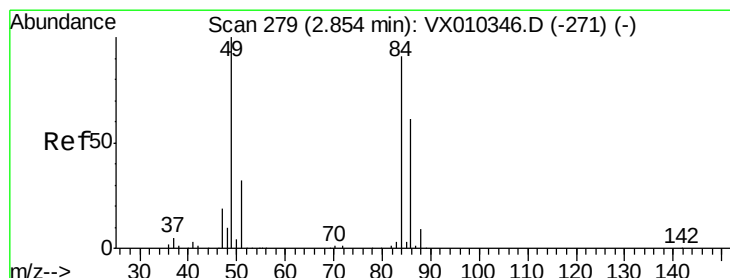
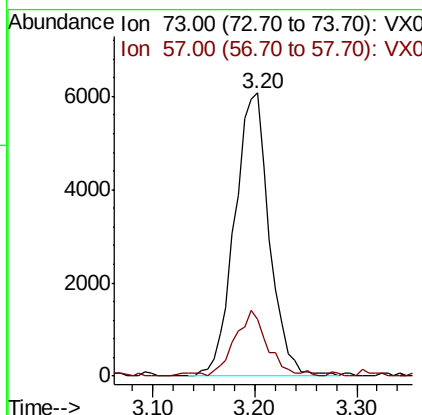
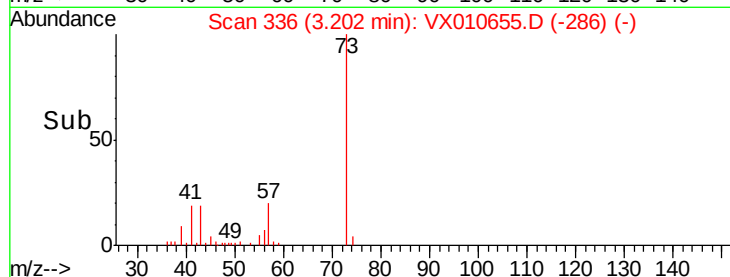
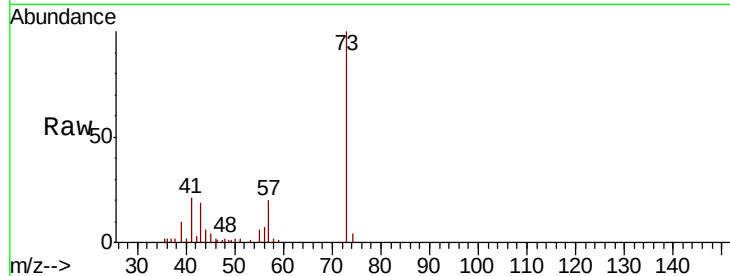


#19

Methyl tert-butyl Ether  
 Concen: 2.307 ug/l  
 RT: 3.20 min Scan# 336  
 Delta R.T. 0.01 min  
 Lab File: VX010655.D  
 Acq: 03 Jul 2019 21:05

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-1R

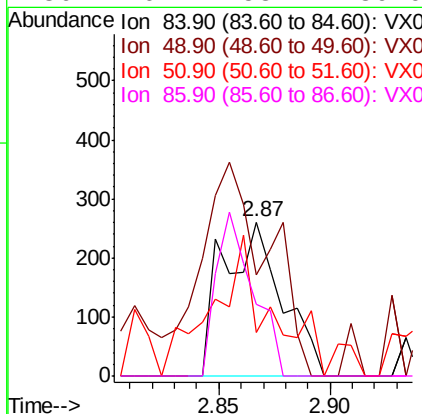
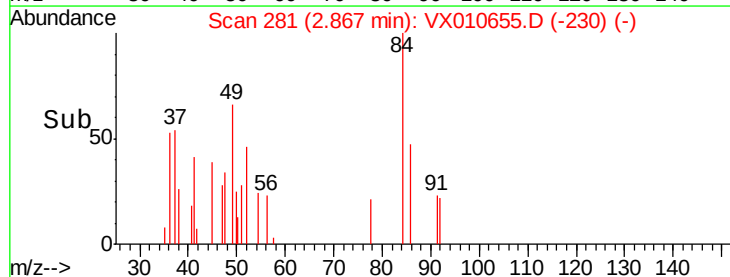
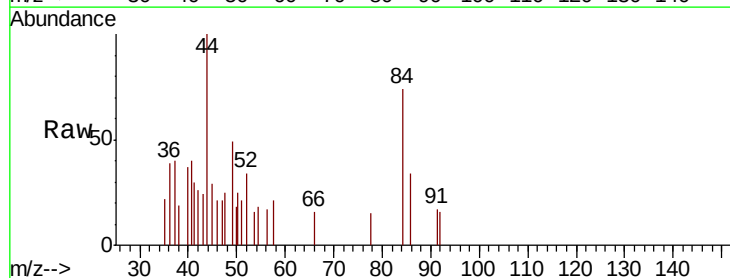
Tot Ion: 73 Resp: 14314  
 Ion Ratio Lower Upper  
 73 100  
 57 18.9 16.4 24.6

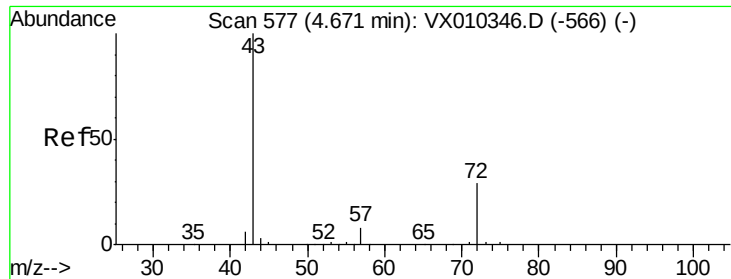


#20

Methylene Chloride  
 Concen: 0.217 ug/l  
 RT: 2.87 min Scan# 281  
 Delta R.T. 0.01 min  
 Lab File: VX010655.D  
 Acq: 03 Jul 2019 21:05

Tgt Ion: 84 Resp: 477  
 Ion Ratio Lower Upper  
 84 100  
 49 65.9 87.5 131.3#  
 51 7.3 27.7 41.5#  
 86 46.7 53.4 80.0#





#25

2-Butanone

Concen: 0.221 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX010655.D

Acq: 03 Jul 2019 21:05

Instrument :

MSVOA\_X

ClientSampled :

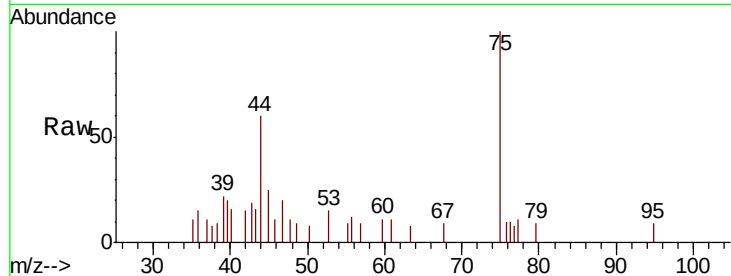
MW-1R

Tot Ion: 43 Resp: 346

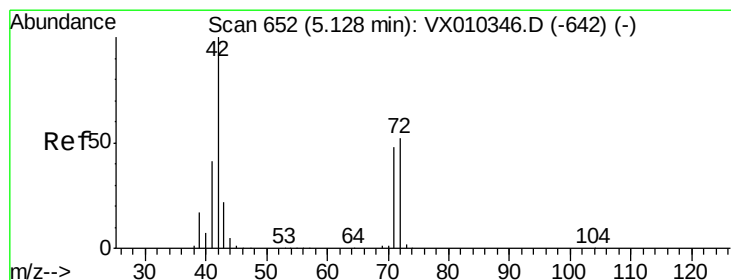
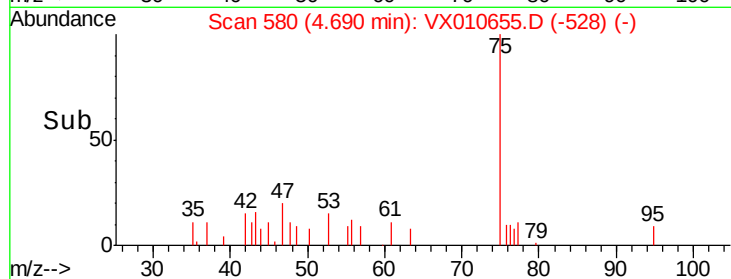
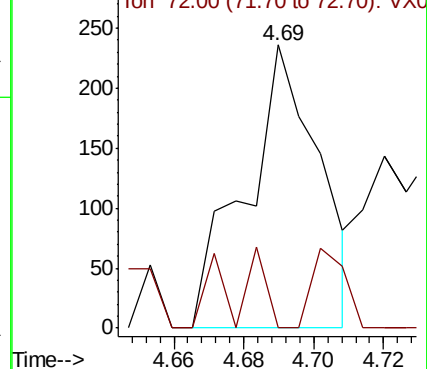
Ion Ratio Lower Upper

43 100

72 0.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#29

Tetrahydrofuran

Concen: 0.841 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.04 min

Lab File: VX010655.D

Acq: 03 Jul 2019 21:05

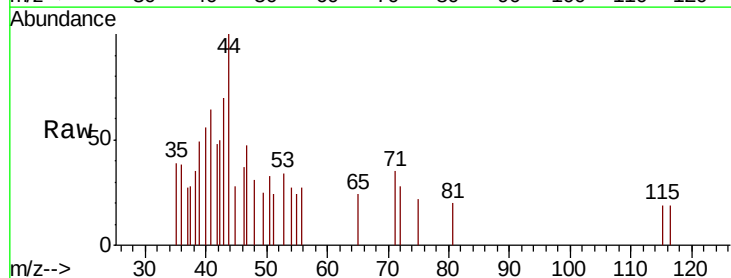
Tgt Ion: 42 Resp: 817

Ion Ratio Lower Upper

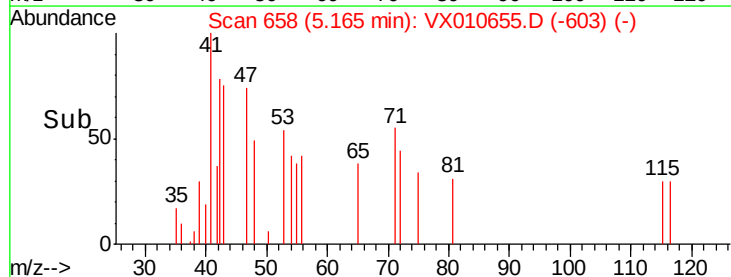
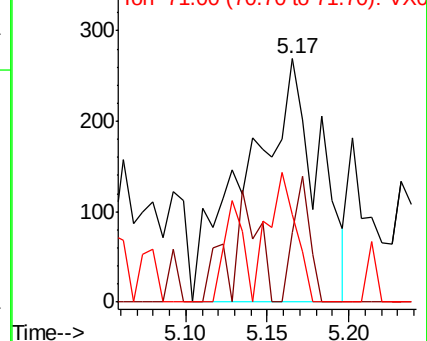
42 100

72 12.0 40.6 60.8#

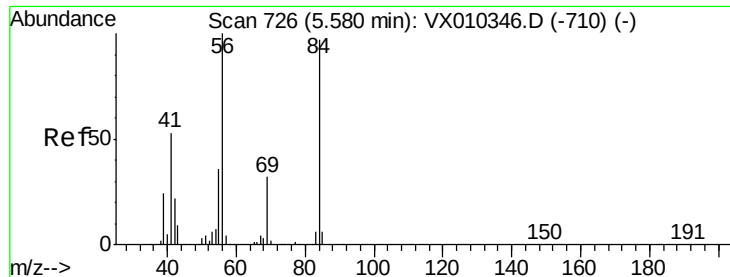
71 21.1 37.8 56.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0



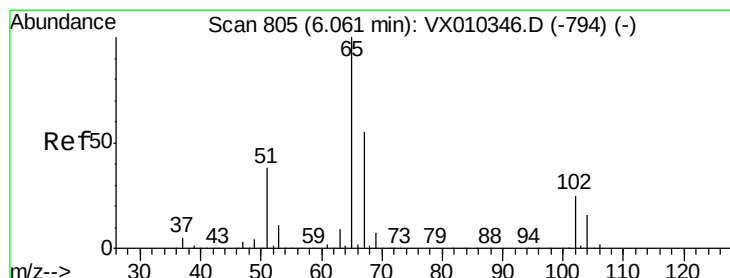
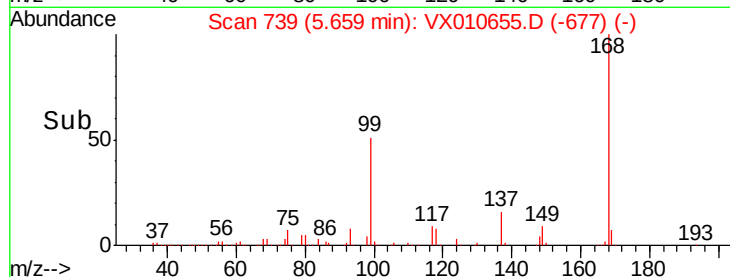
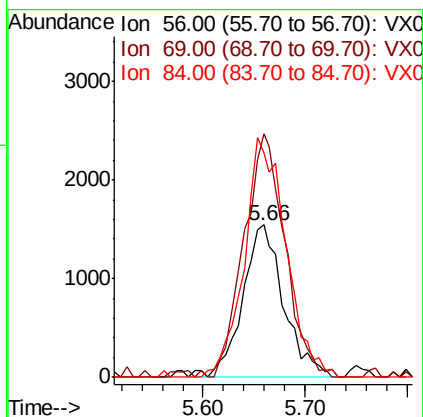
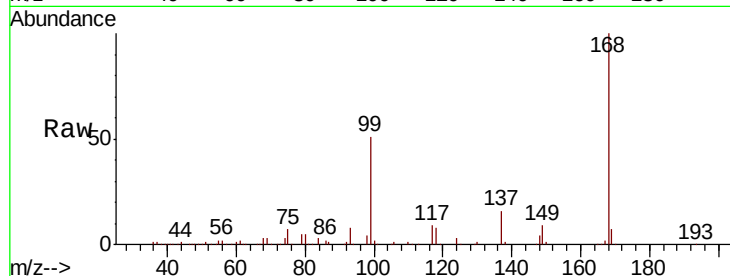




#31  
Cyclohexane  
Concen: 1.419 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.08 min  
Lab File: VX010655.D  
Acq: 03 Jul 2019 21:05

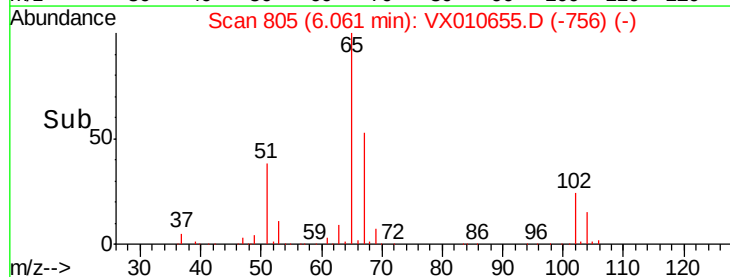
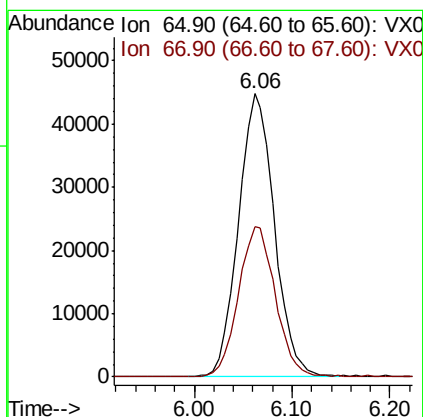
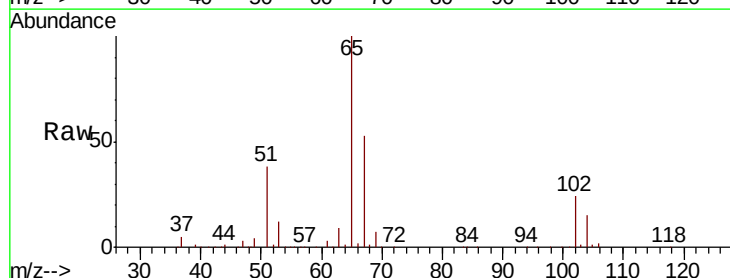
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-1R

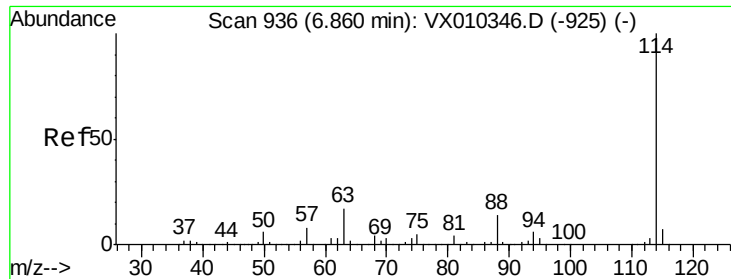
Tot Ion: 56 Resp: 4374  
Ion Ratio Lower Upper  
56 100  
69 159.7 25.9 38.9#  
84 147.2 78.0 117.0#



#33  
1,2-Dichloroethane-d4  
Concen: 53.589 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: VX010655.D  
Acq: 03 Jul 2019 21:05

Tgt Ion: 65 Resp: 114331  
Ion Ratio Lower Upper  
65 100  
67 54.5 0.0 110.2

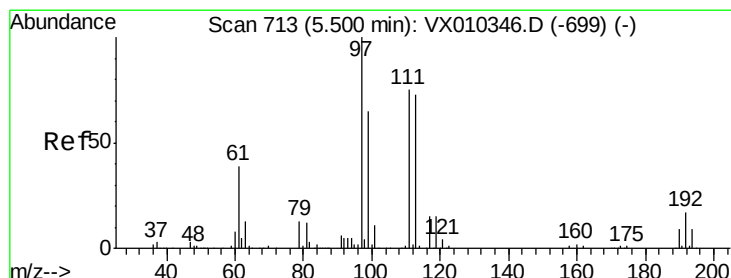
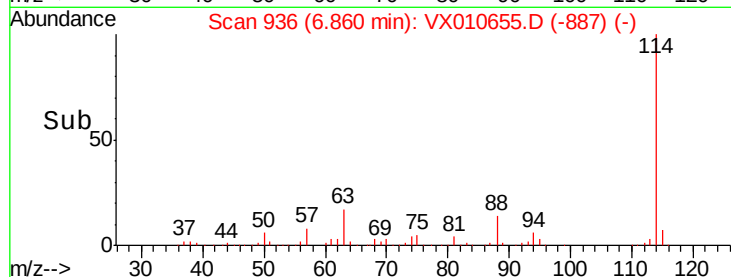
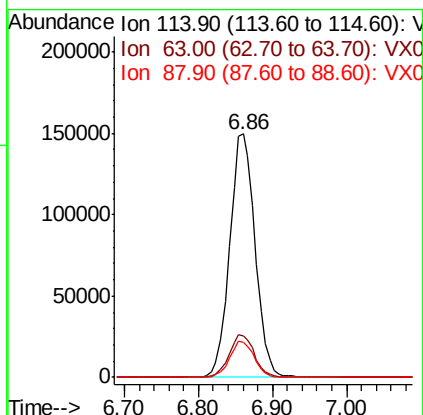
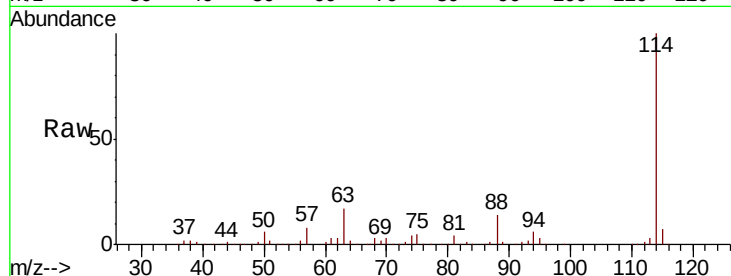




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX010655.D  
 Acq: 03 Jul 2019 21:05

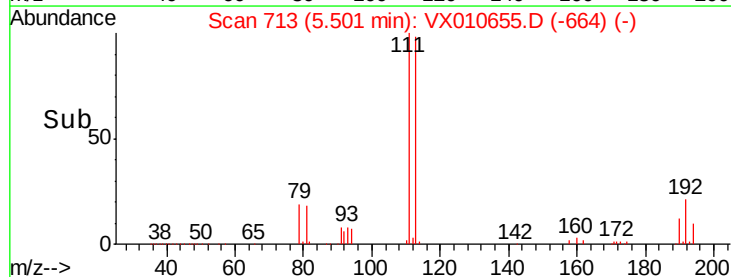
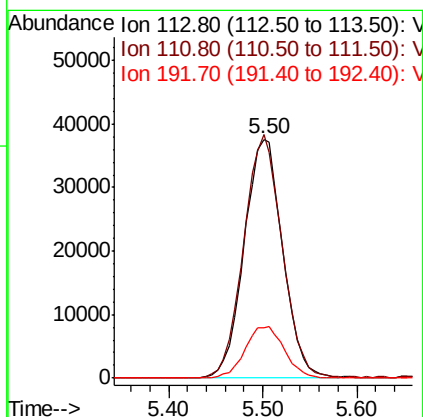
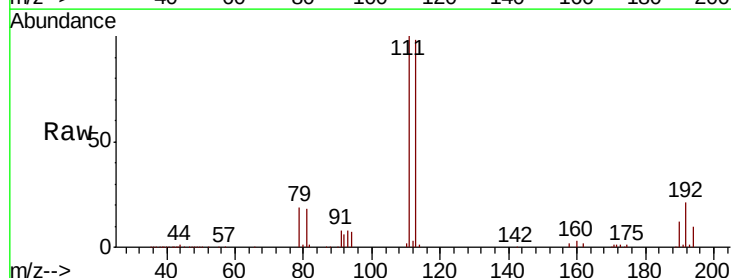
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-1R

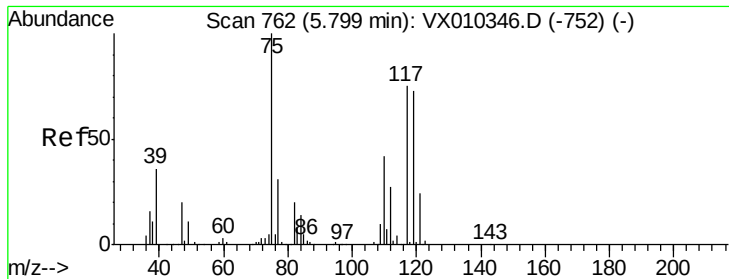
Tot Ion:114 Resp: 355861  
 Ion Ratio Lower Upper  
 114 100  
 63 17.1 0.0 33.8  
 88 14.2 0.0 27.6



#35  
 Dibromofluoromethane  
 Concen: 49.549 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX010655.D  
 Acq: 03 Jul 2019 21:05

Tgt Ion:113 Resp: 107883  
 Ion Ratio Lower Upper  
 113 100  
 111 101.6 81.2 121.8  
 192 22.0 18.6 27.8

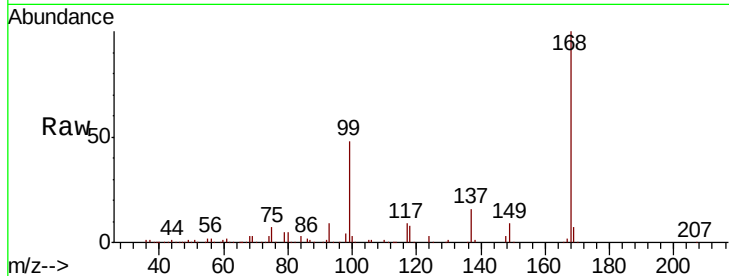




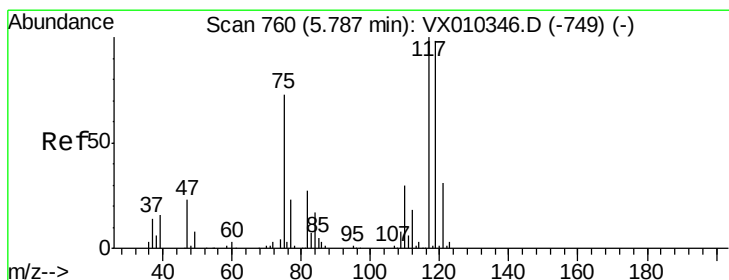
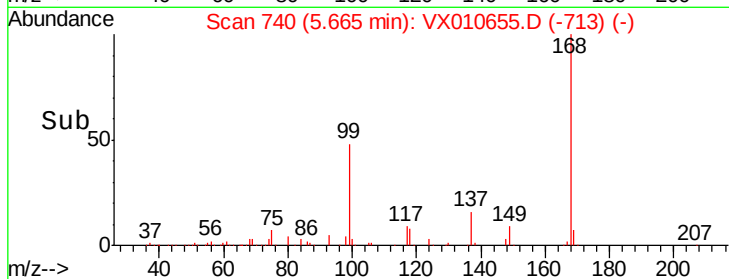
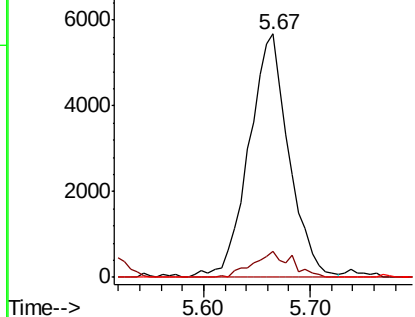
#36  
 1,1-Dichloropropene  
 Concen: 5.273 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX010655.D  
 Acq: 03 Jul 2019 21:05

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-1R

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.4  | 20.8  | 62.2# |
| 77      | 0.0   | 25.4  | 38.0# |

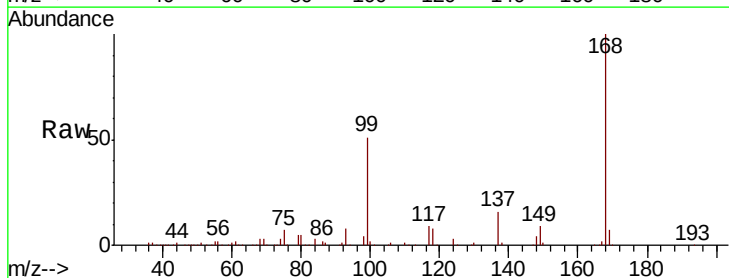


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

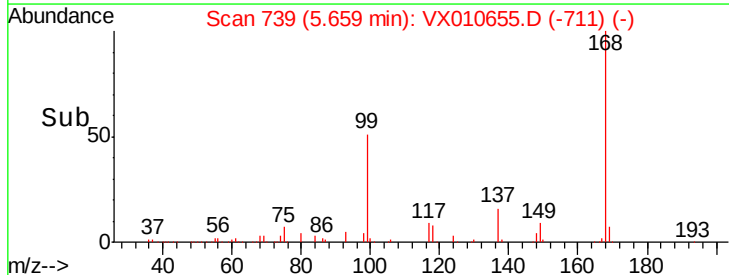
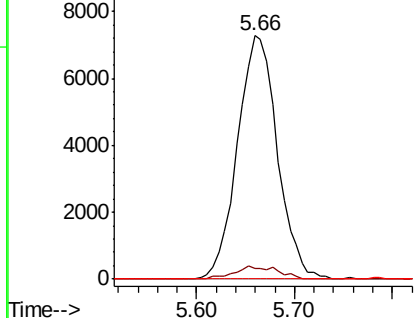


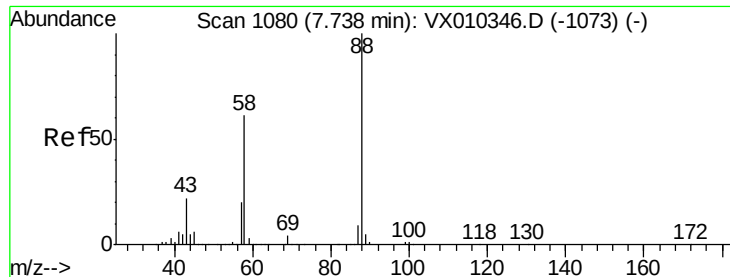
#38  
 Carbon Tetrachloride  
 Concen: 6.727 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.13 min  
 Lab File: VX010655.D  
 Acq: 03 Jul 2019 21:05

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.6   | 78.2  | 117.4# |
| 121     | 0.0   | 24.7  | 37.1#  |



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: 0.326 ug/l

RT: 7.79 min Scan# 1088

Delta R.T. 0.05 min

Lab File: VX010655.D

Acq: 03 Jul 2019 21:05

Instrument :

MSVOA\_X

ClientSampleId :

MW-1R

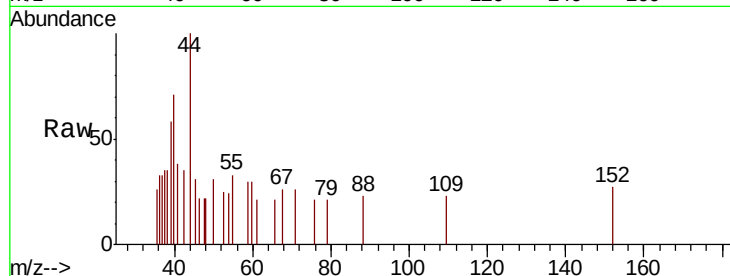
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.2#

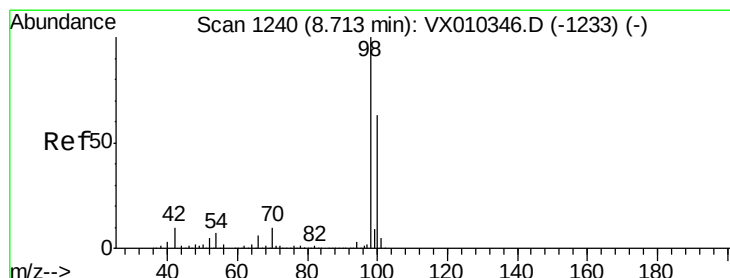
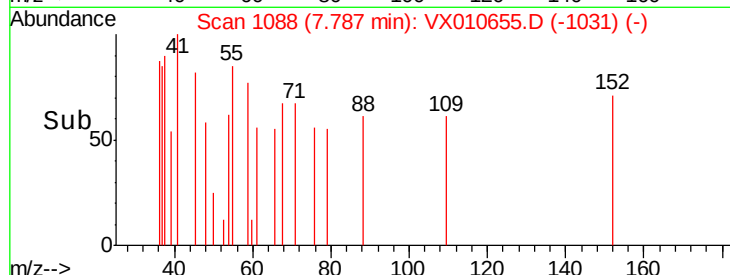
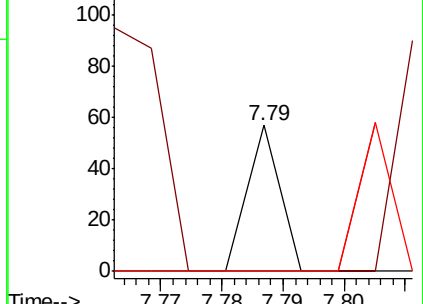
58 100.0 49.5 74.3#



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: 50.550 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010655.D

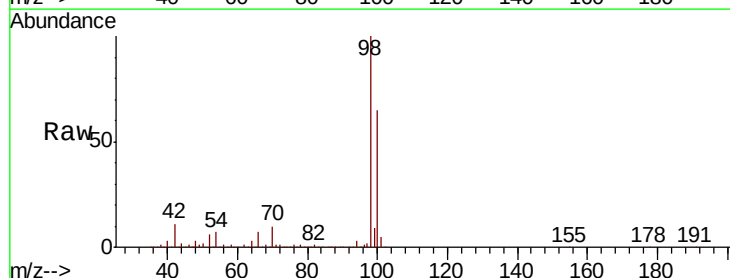
Acq: 03 Jul 2019 21:05

Tgt Ion: 98 Resp: 421076

Ion Ratio Lower Upper

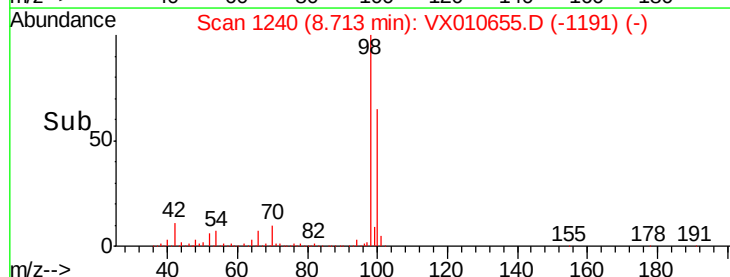
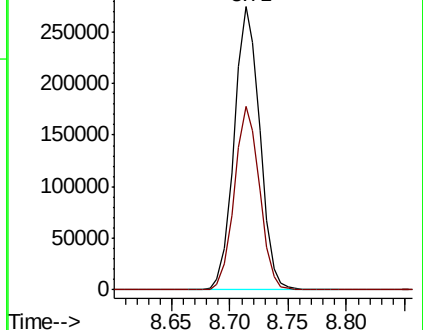
98 100

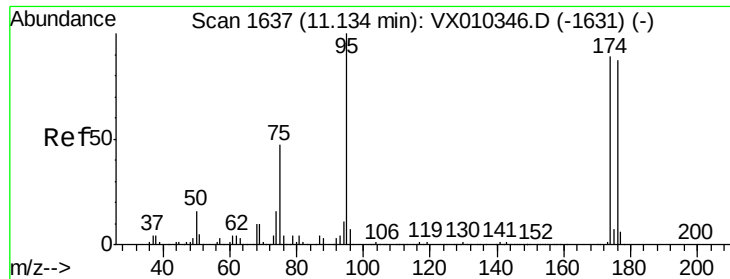
100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

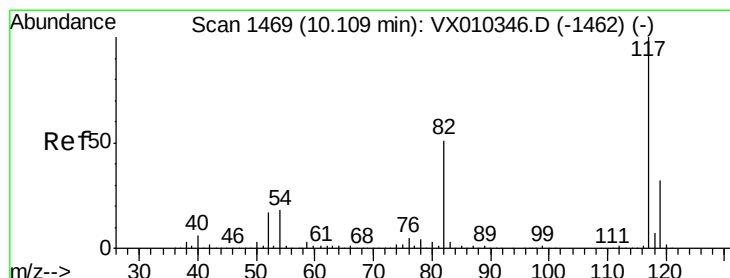
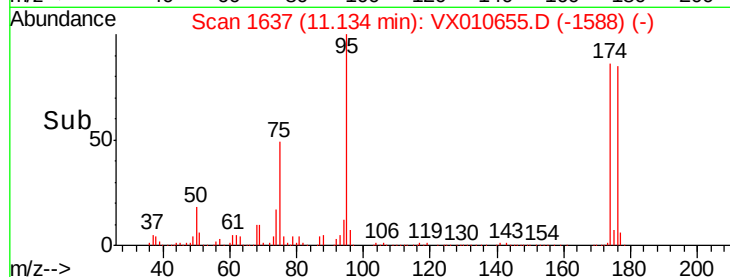
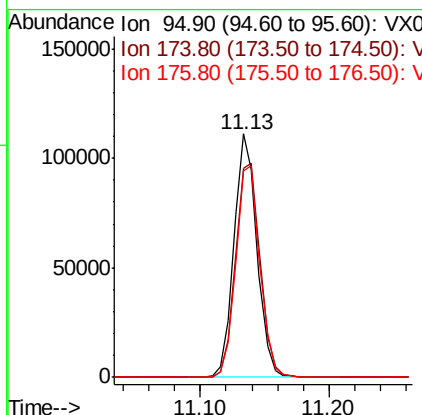
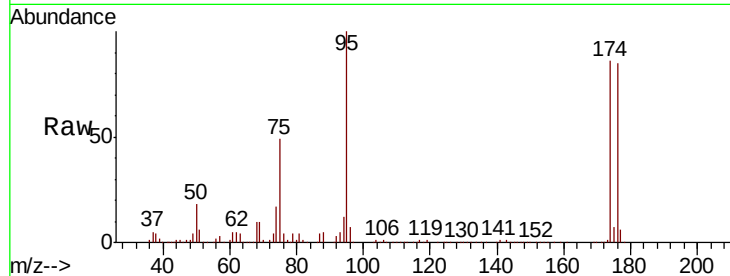




#62  
4-Bromofluorobenzene  
Concen: 46.121 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX010655.D  
Acq: 03 Jul 2019 21:05

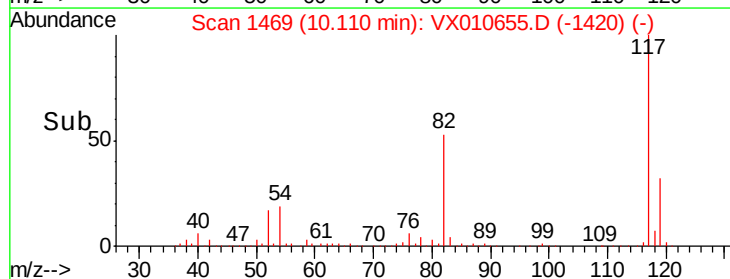
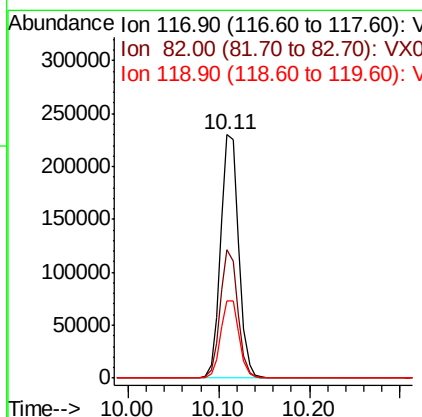
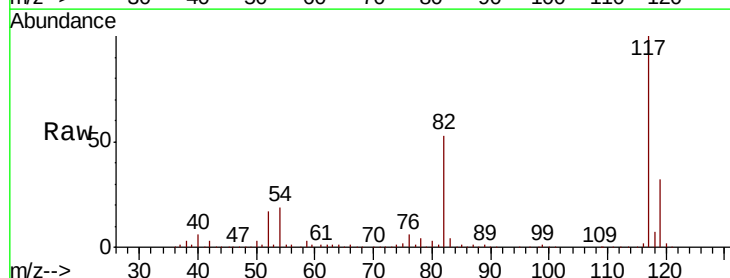
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-1R

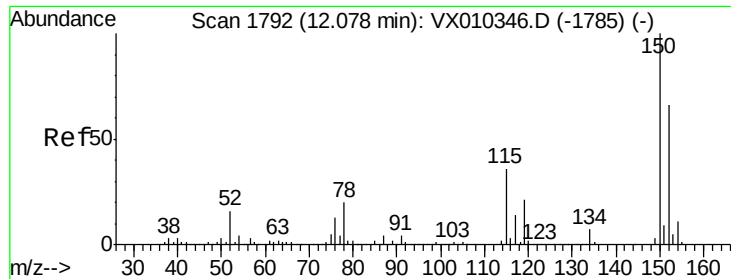
Tot Ion: 95 Resp: 138700  
Ion Ratio Lower Upper  
95 100  
174 93.6 0.0 187.6  
176 90.5 0.0 184.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010655.D  
Acq: 03 Jul 2019 21:05

Tgt Ion: 117 Resp: 320348  
Ion Ratio Lower Upper  
117 100  
82 52.6 41.2 61.8  
119 32.0 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: VX010655.D

Acq: 03 Jul 2019 21:05

Instrument :

MSVOA\_X

ClientSampleId :

MW-1R

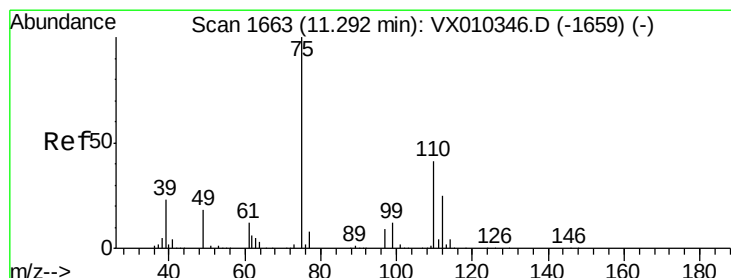
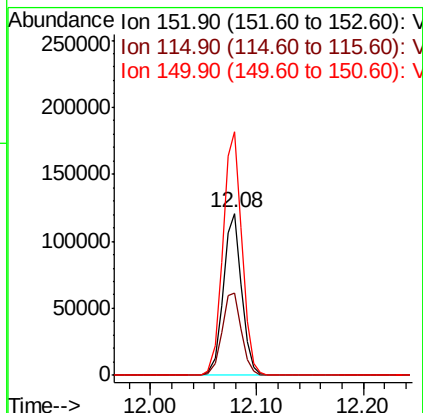
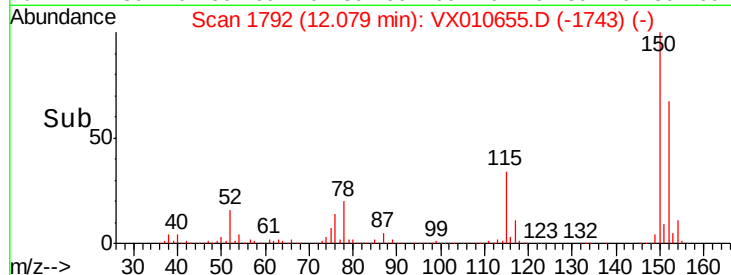
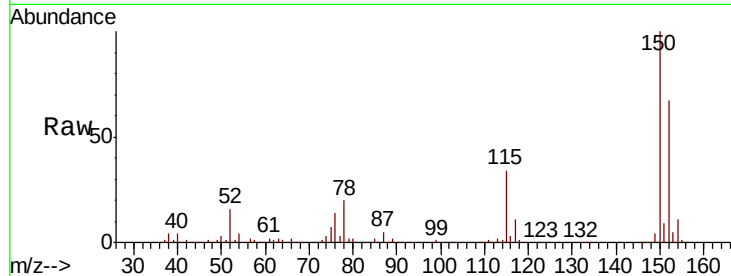
Tot Ion:152 Resp: 145079

Ion Ratio Lower Upper

152 100

115 54.5 38.6 115.7

150 156.1 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 25.821 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010655.D

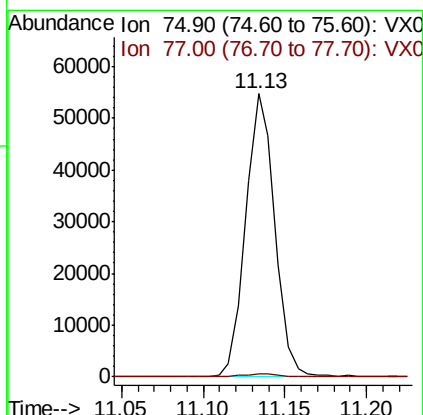
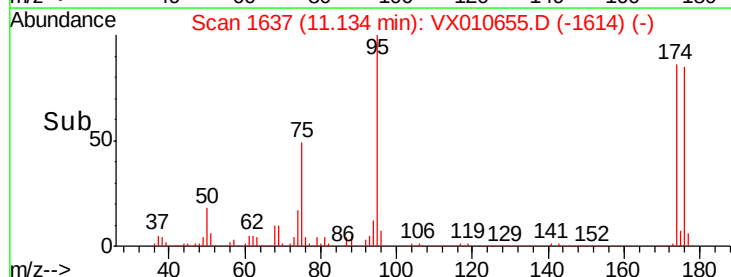
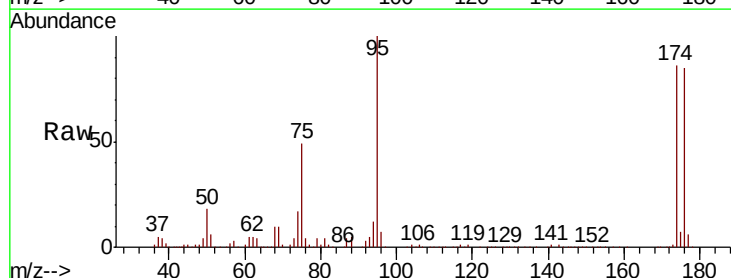
Acq: 03 Jul 2019 21:05

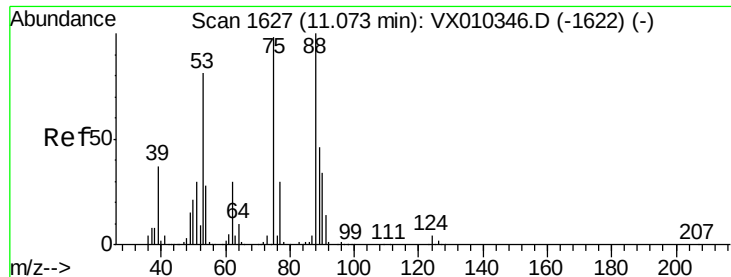
Tgt Ion: 75 Resp: 68264

Ion Ratio Lower Upper

75 100

77 1.2 22.6 67.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 60.238 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010655.D

Acq: 03 Jul 2019 21:05

Instrument :

MSVOA\_X

ClientSampleId :

MW-1R

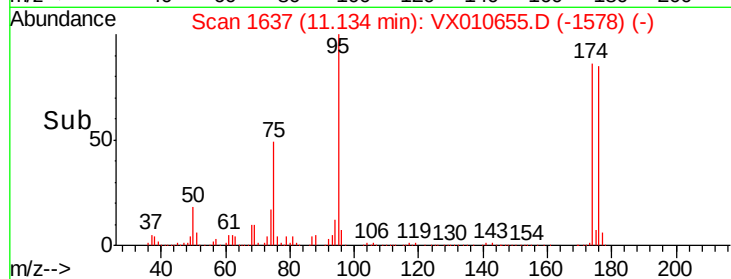
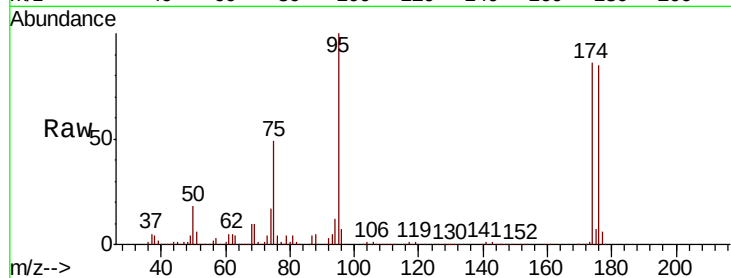
Tot Ion: 75 Resp: 68264

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

