

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062819\  
 Data File : VX010546.D  
 Acq On : 28 Jun 2019 19:41  
 Operator : JC/SP  
 Sample : K3572-07  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DAY-5

Quant Time: Jun 29 04:41:38 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      | 5.66  | 168  | 238532   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 370085   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 332249   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 159733   | 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   | 115130   | 51.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.96% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 111545   | 49.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.52%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 437631   | 50.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.04% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 149191   | 47.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.40%  |          |

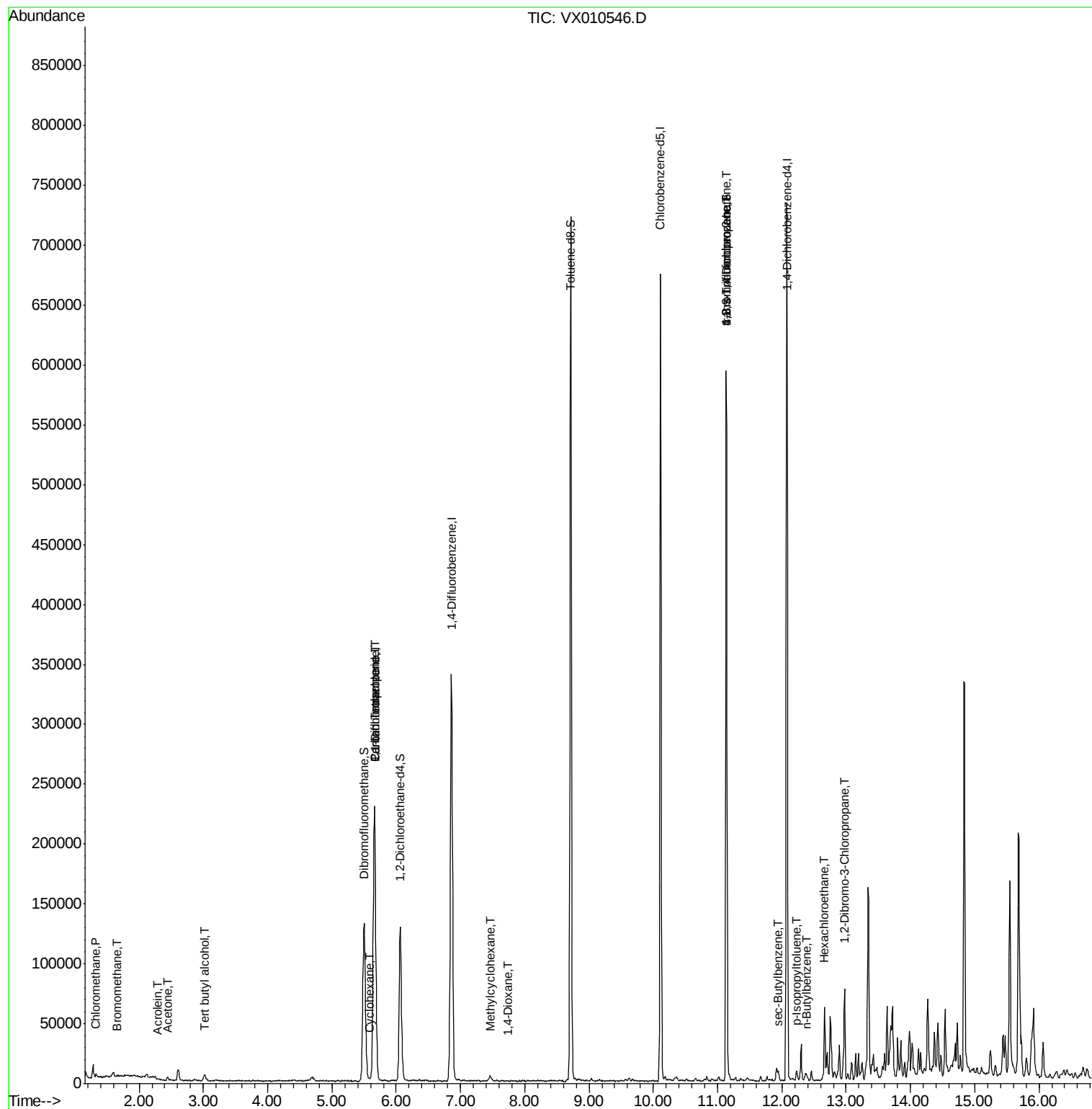
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 1721     | 0.891  | ug/l   | 95     |
| 5) Bromomethane                | 1.65  | 94   | 346      | 0.336  | ug/l # | 58     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 3215     | 5.494  | ug/l # | 94     |
| 13) Acrolein                   | 2.29  | 56   | 217      | 0.559  | ug/l # | 68     |
| 16) Acetone                    | 2.45  | 43   | 3335     | 2.975  | ug/l   | 93     |
| 31) Cyclohexane                | 5.58  | 56   | 855      | 0.265  | ug/l # | 57     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 15166    | 5.157  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 21653    | 6.799  | ug/l # | 15     |
| 39) Methylcyclohexane          | 7.46  | 83   | 1918     | 0.496  | ug/l   | 94     |
| 49) 1,4-Dioxane                | 7.74  | 88   | 41       | 0.612  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 69896    | 24.013 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 69896    | 56.020 | ug/l # | 16     |
| 85) sec-Butylbenzene           | 11.94 | 105  | 3916     | 0.372  | ug/l # | 55     |
| 86) p-Isopropyltoluene         | 12.23 | 119  | 3287     | 0.338  | ug/l   | 95     |
| 89) n-Butylbenzene             | 12.39 | 91   | 2140     | 0.259  | ug/l   | 95     |
| 90) Hexachloroethane           | 12.66 | 117  | 2948     | 1.752  | ug/l # | 5      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.97 | 75   | 437      | 0.565  | ug/l # | 1      |

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

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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: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

Instrument :

MSVOA\_X

ClientSampled :

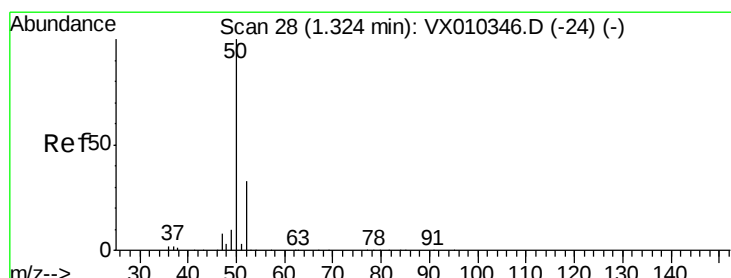
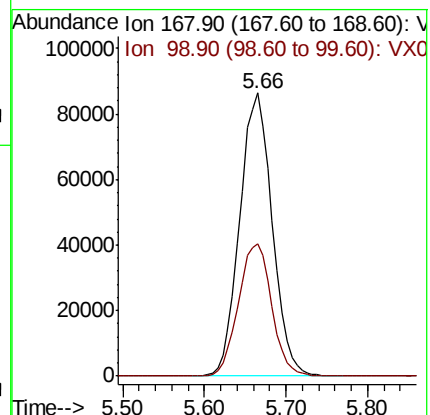
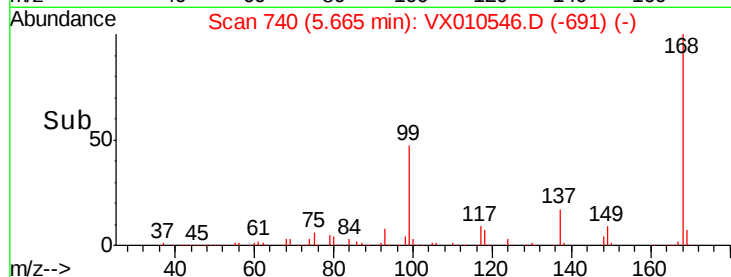
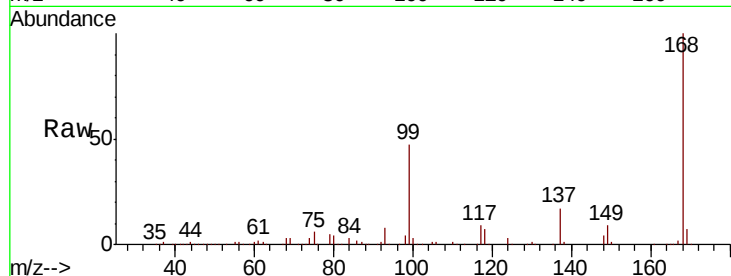
DAY-5

Tot Ion:168 Resp: 238532

Ion Ratio Lower Upper

168 100

99 46.6 35.5 53.3



#3

Chloromethane

Concen: 0.891 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010546.D

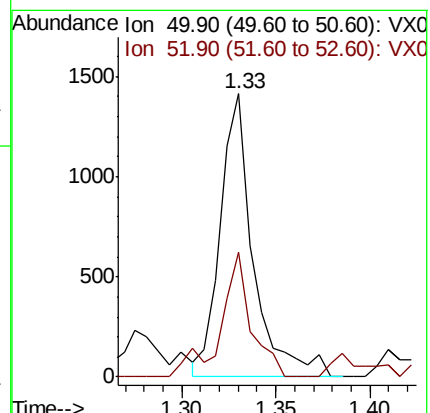
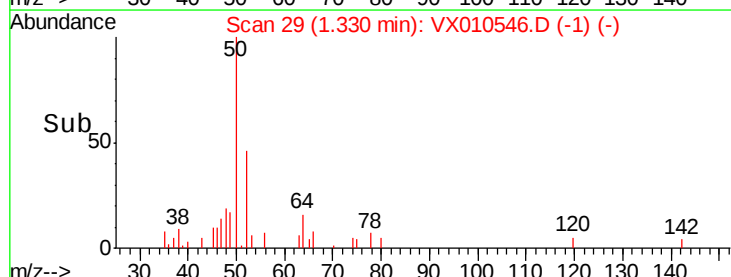
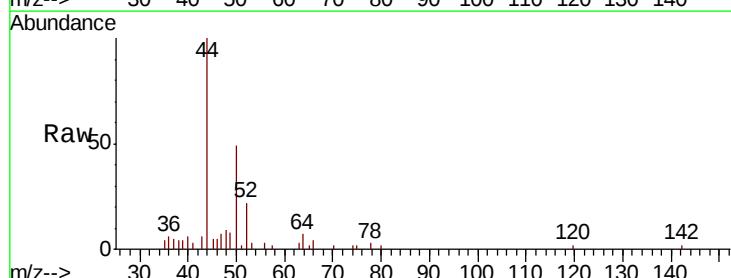
Acq: 28 Jun 2019 19:41

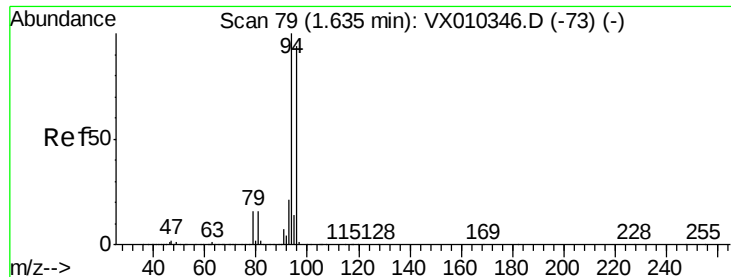
Tgt Ion: 50 Resp: 1721

Ion Ratio Lower Upper

50 100

52 35.8 26.5 39.7





#5

Bromomethane

Concen: 0.336 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

Instrument :

MSVOA\_X

ClientSampled :

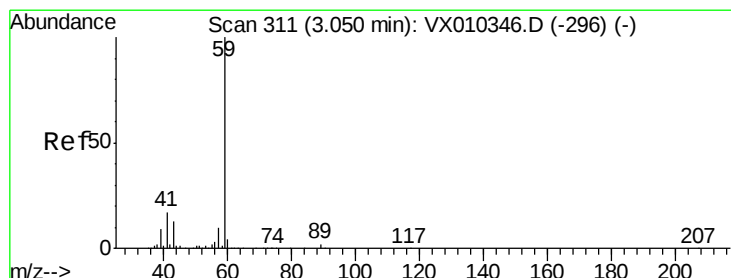
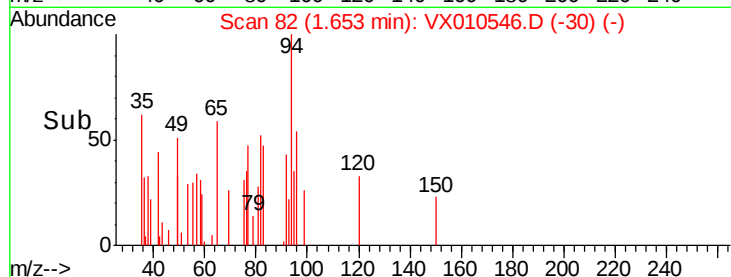
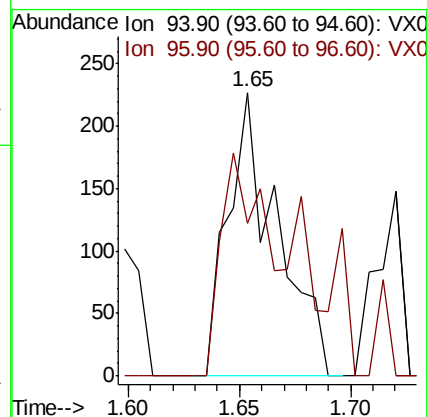
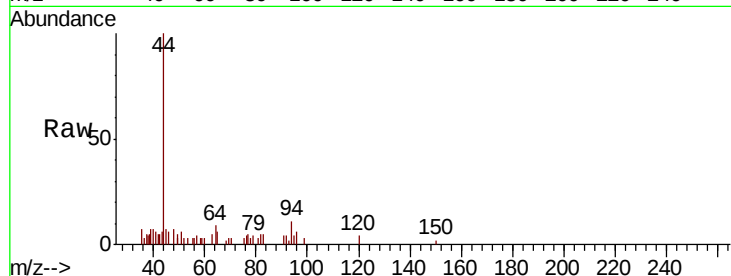
DAY-5

Tot Ion: 94 Resp: 346

Ion Ratio Lower Upper

94 100

96 53.7 75.5 113.3#



#11

Tert butyl alcohol

Concen: 5.494 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX010546.D

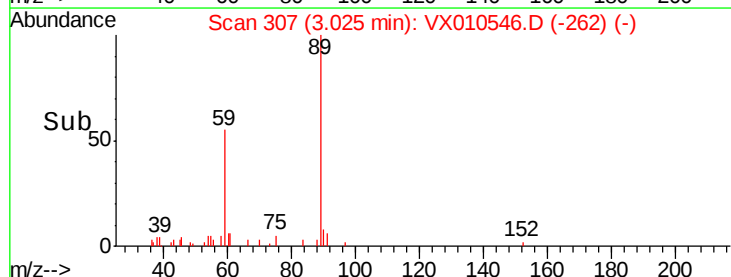
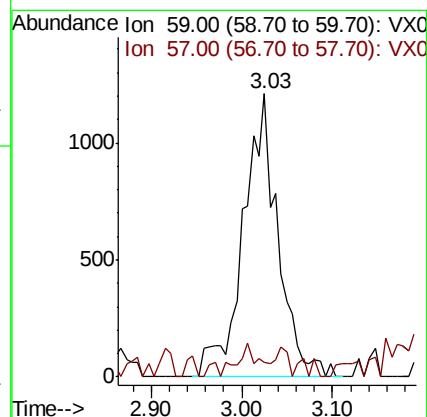
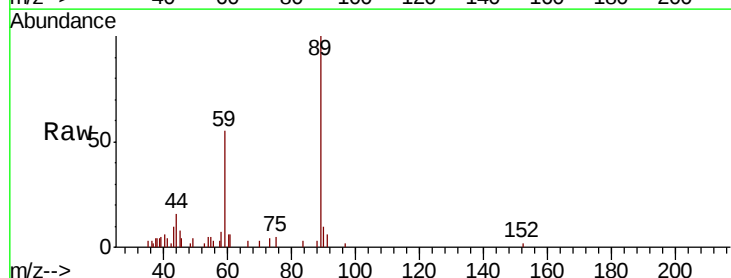
Acq: 28 Jun 2019 19:41

Tgt Ion: 59 Resp: 3215

Ion Ratio Lower Upper

59 100

57 7.3 7.7 11.5#





#13

Acrolein

Concen: 0.559 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

Instrument :

MSVOA\_X

ClientSampleId :

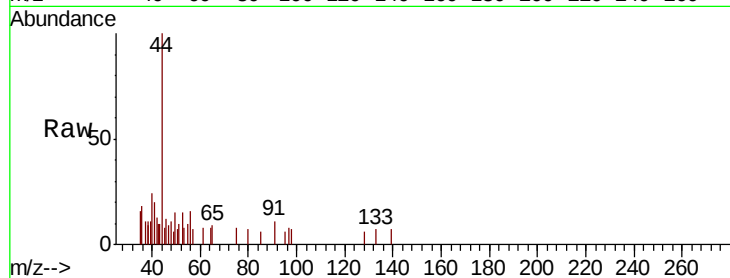
DAY-5

Tot Ion: 56 Resp: 217

Ion Ratio Lower Upper

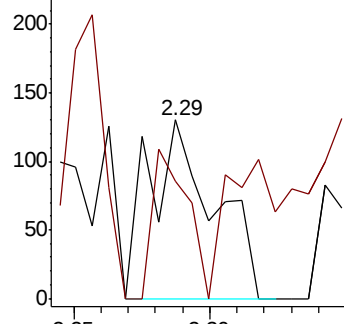
56 100

55 44.7 56.9 85.3#

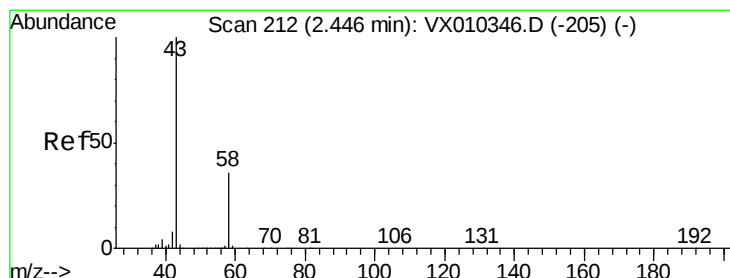
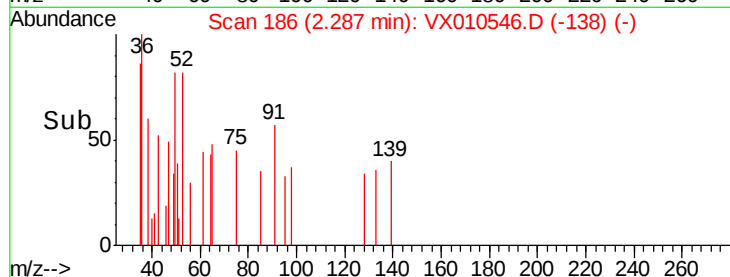


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 2.975 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010546.D

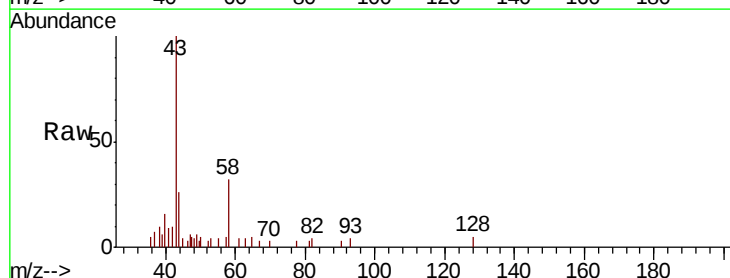
Acq: 28 Jun 2019 19:41

Tgt Ion: 43 Resp: 3335

Ion Ratio Lower Upper

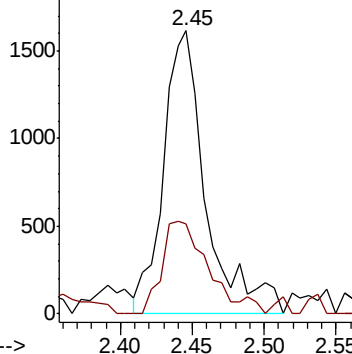
43 100

58 31.8 28.9 43.3

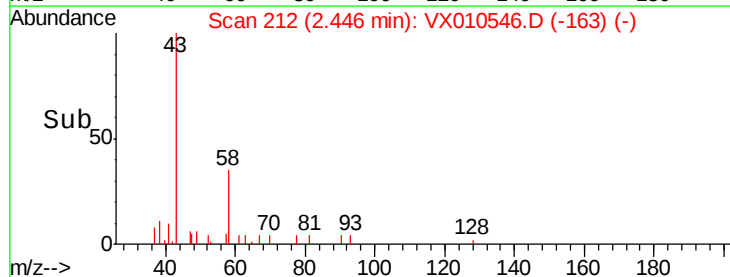


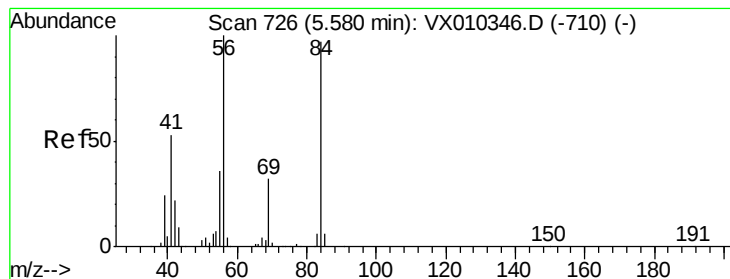
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#31

Cyclohexane

Concen: 0.265 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

Instrument :

MSVOA\_X

ClientSampled :

DAY-5

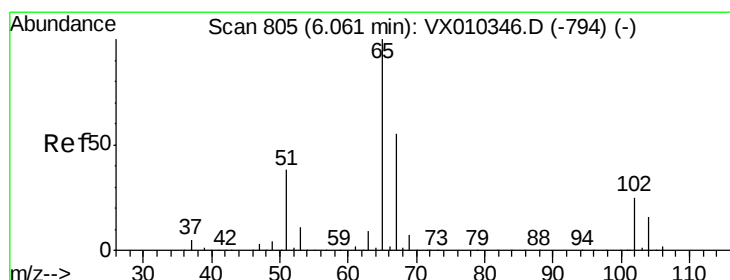
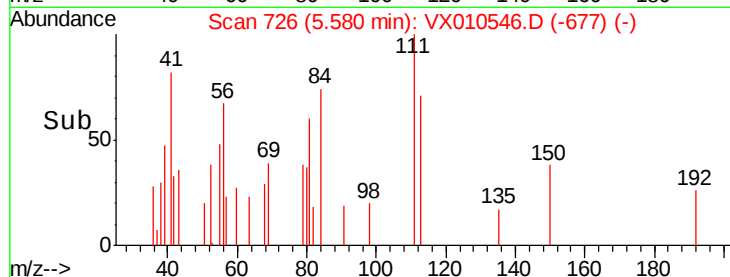
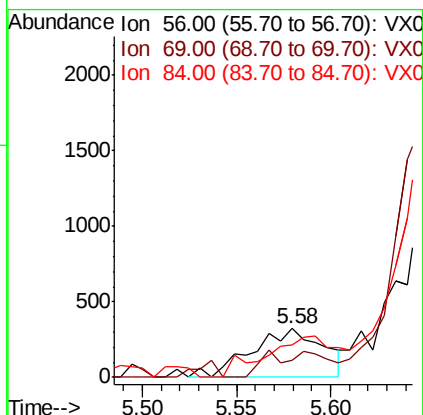
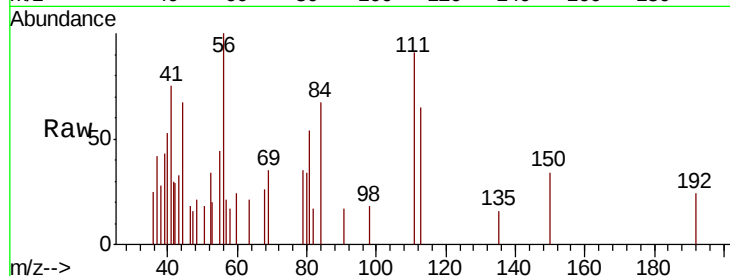
Tot Ion: 56 Resp: 855

Ion Ratio Lower Upper

56 100

69 17.7 25.9 38.9#

84 49.1 78.0 117.0#



#33

1,2-Dichloroethane-d4

Concen: 51.478 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010546.D

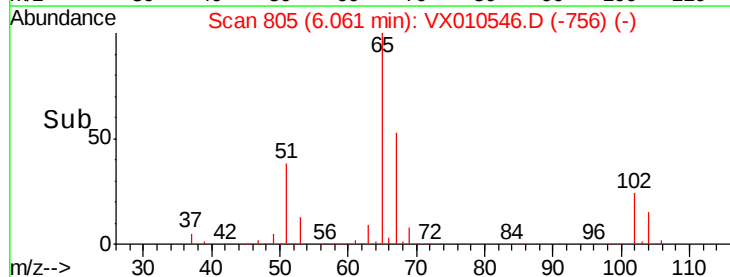
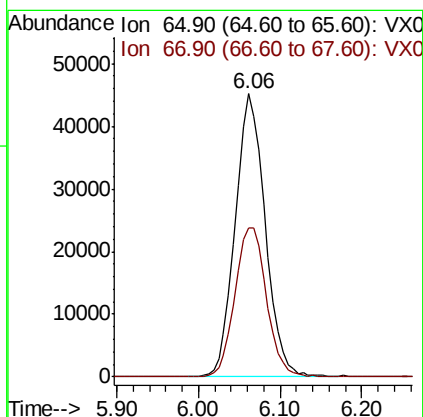
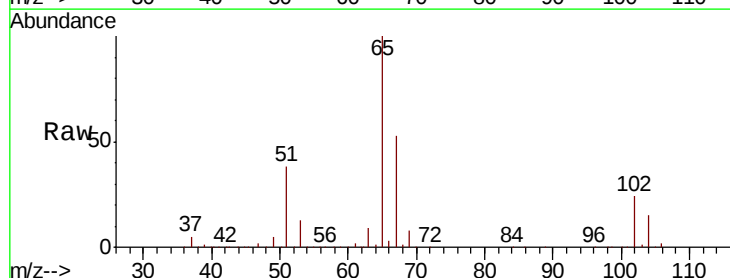
Acq: 28 Jun 2019 19:41

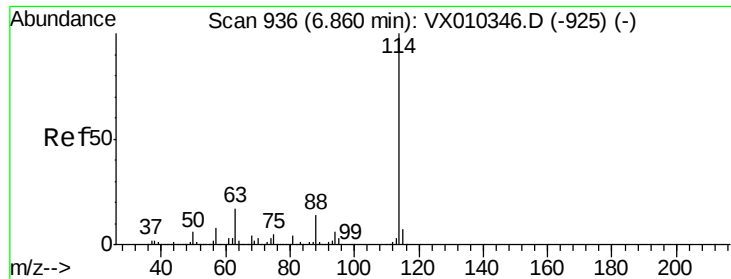
Tgt Ion: 65 Resp: 115130

Ion Ratio Lower Upper

65 100

67 55.3 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: VX010546.D

Acq: 28 Jun 2019 19:41

Instrument :

MSVOA\_X

ClientSampleId :

DAY-5

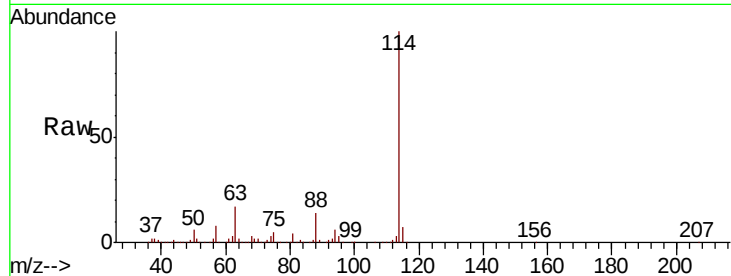
Tot Ion:114 Resp: 370085

Ion Ratio Lower Upper

114 100

63 17.3 0.0 33.8

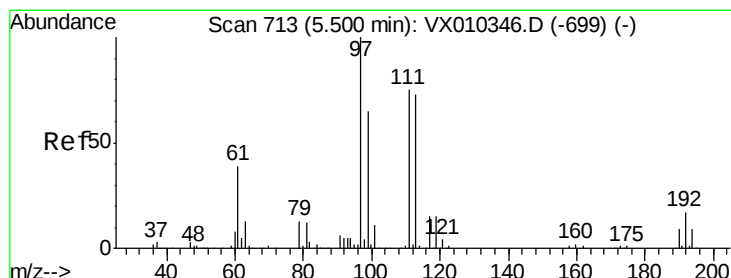
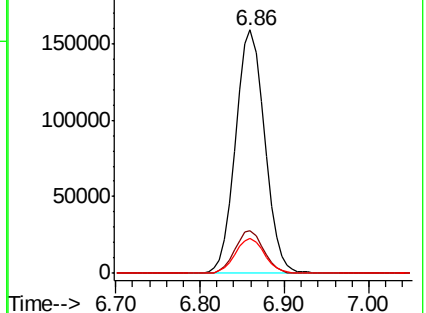
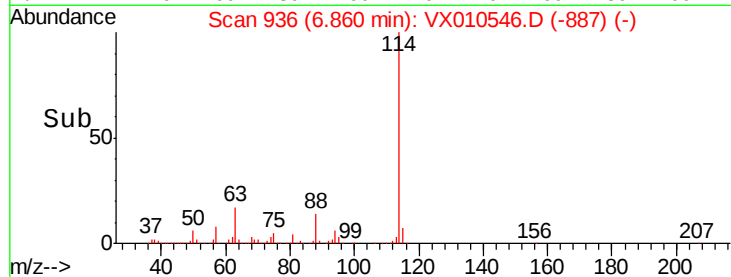
88 14.2 0.0 27.6



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: 49.262 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

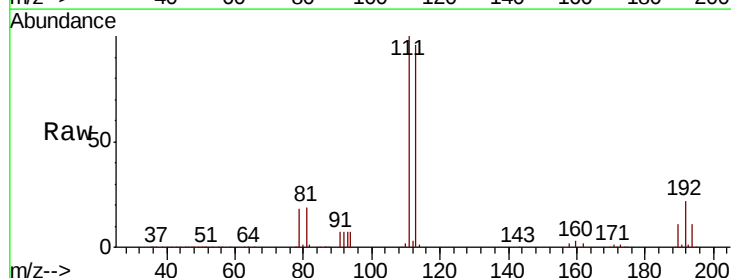
Tgt Ion:113 Resp: 111545

Ion Ratio Lower Upper

113 100

111 102.5 81.2 121.8

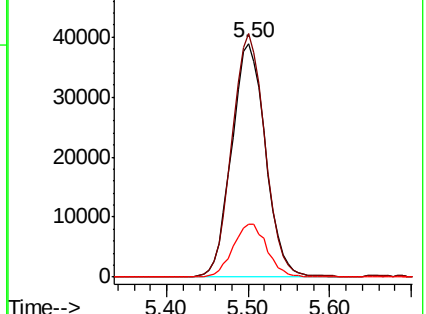
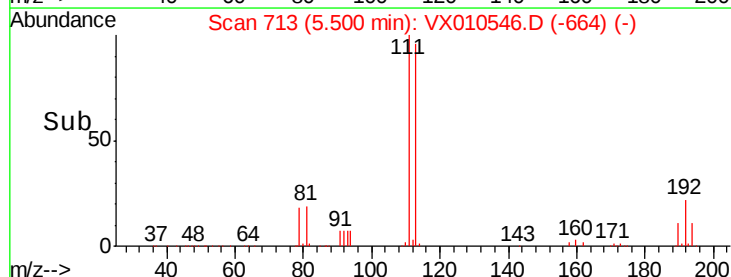
192 22.8 18.6 27.8

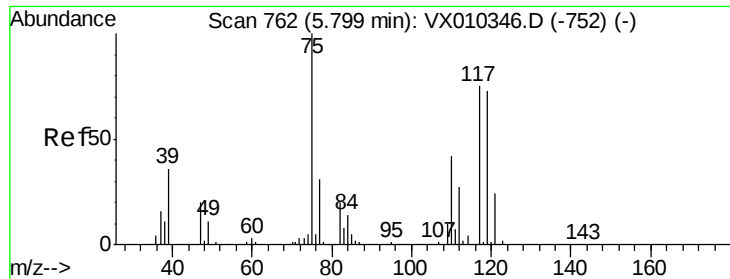


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

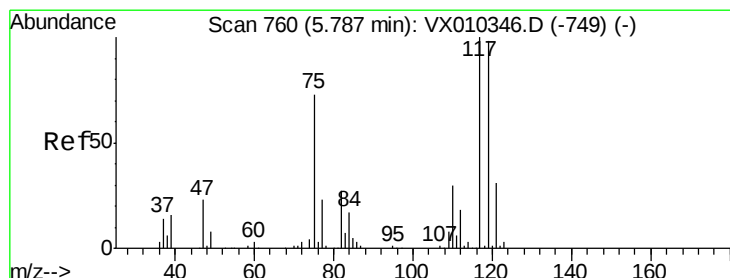
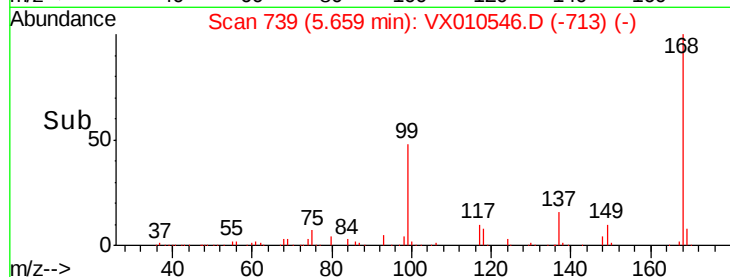
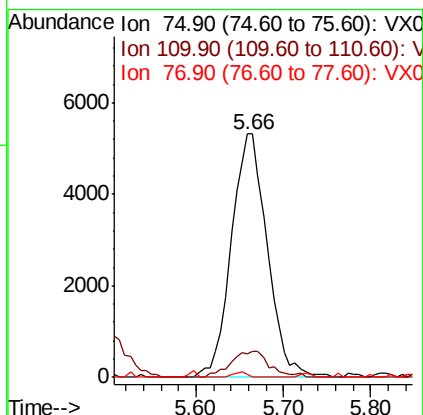
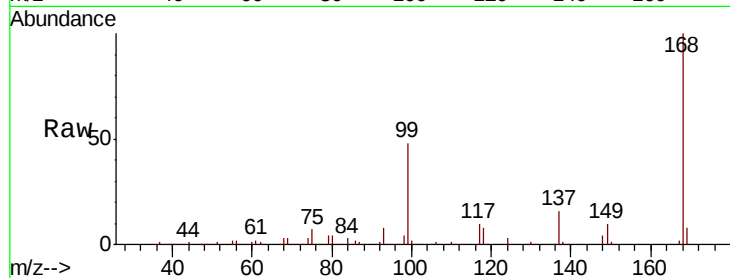




#36  
 1,1-Dichloropropene  
 Concen: 5.157 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX010546.D  
 Acq: 28 Jun 2019 19:41

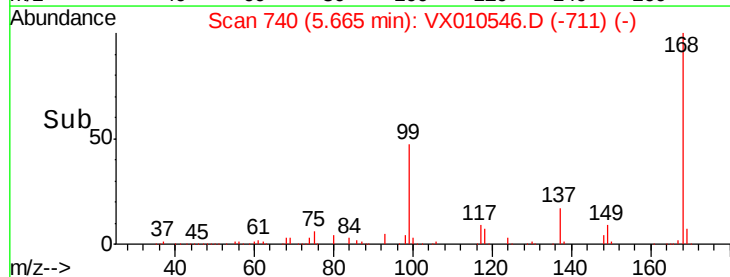
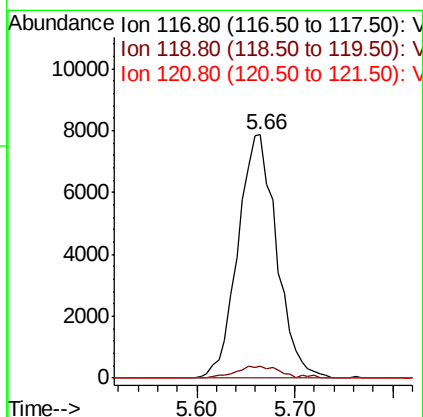
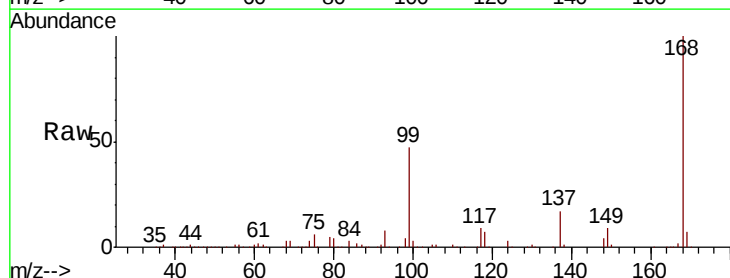
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DAY-5

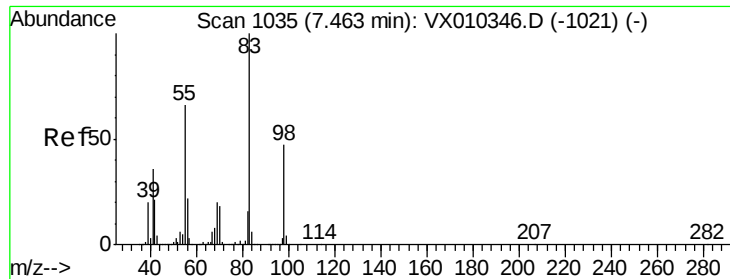
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.6  | 20.8  | 62.2# |
| 77      | 0.8   | 25.4  | 38.0# |



#38  
 Carbon Tetrachloride  
 Concen: 6.799 ug/l  
 RT: 5.66 min Scan# 740  
 Delta R.T. -0.12 min  
 Lab File: VX010546.D  
 Acq: 28 Jun 2019 19:41

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.1   | 78.2  | 117.4# |
| 121     | 0.0   | 24.7  | 37.1#  |





#39

Methvlcvclohexane

Concen: 0.496 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

Instrument :

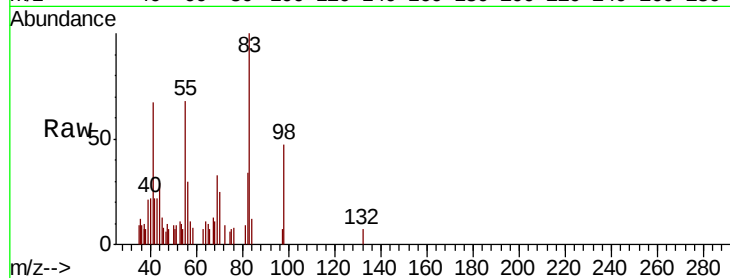
MSVOA\_X

ClientSampleId :

DAY-5

Tot Ion: 83 Resp: 1918

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 59.1  | 53.0  | 79.6  |
| 98  | 46.6  | 37.8  | 56.8  |

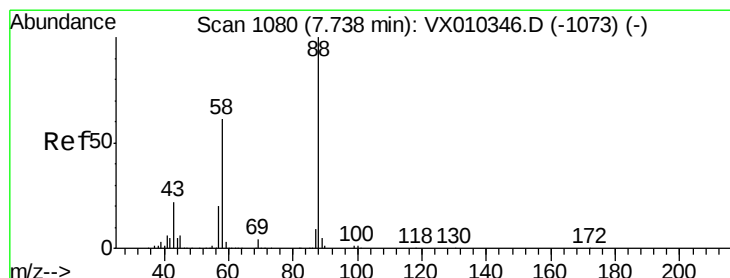
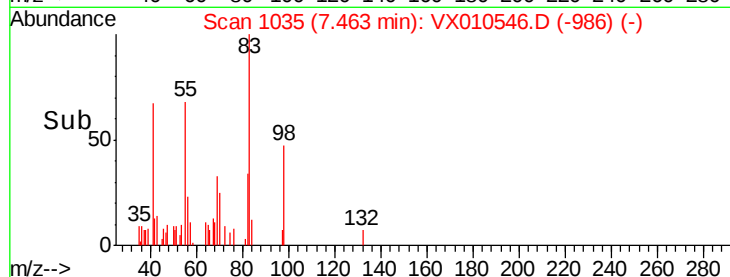
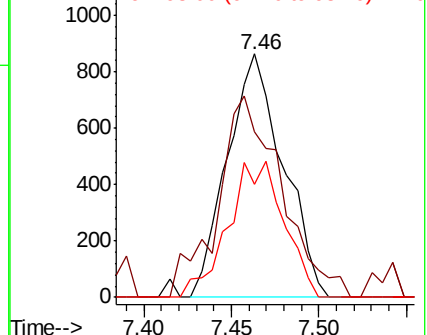


Abundance

Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#49

1,4-Dioxane

Concen: 0.612 ug/l

RT: 7.74 min Scan# 1081

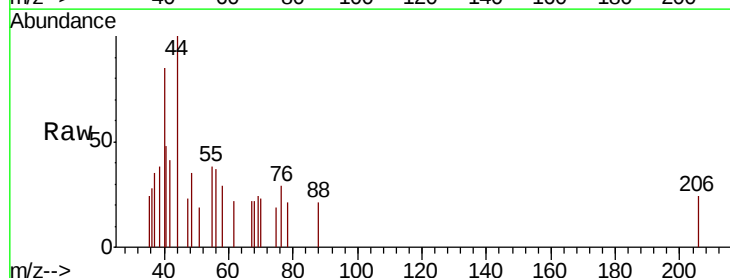
Delta R.T. 0.01 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

Tgt Ion: 88 Resp: 41

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 0.0   | 20.2  | 30.2# |
| 58  | 175.6 | 49.5  | 74.3# |

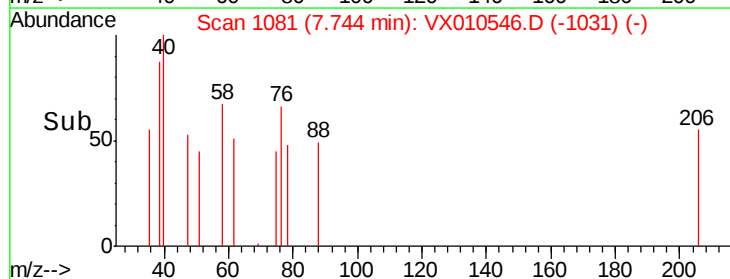
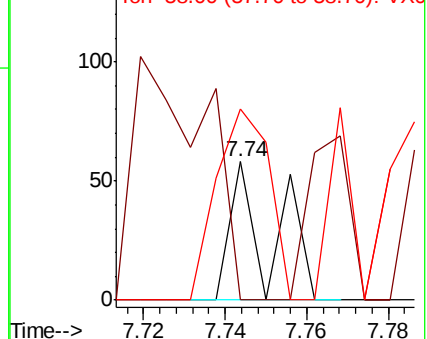


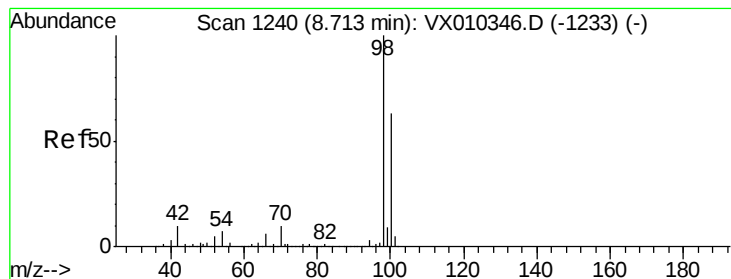
Abundance

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: 50.518 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

Instrument :

MSVOA\_X

ClientSampleId :

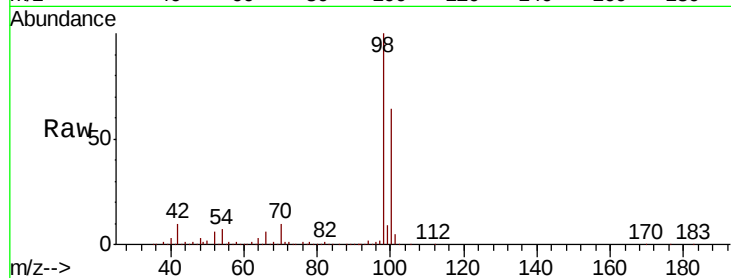
DAY-5

Tot Ion: 98 Resp: 437631

Ion Ratio Lower Upper

98 100

100 64.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

300000

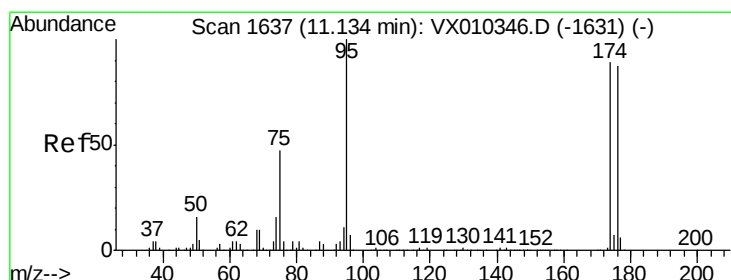
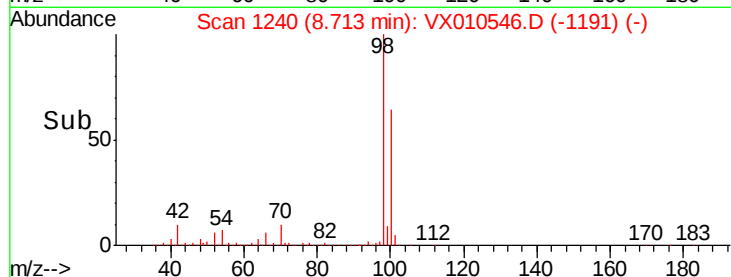
200000

100000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 47.703 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

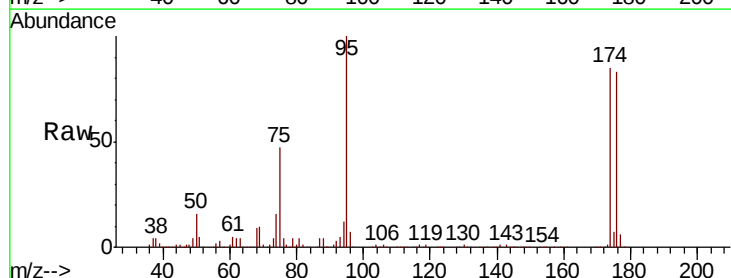
Tgt Ion: 95 Resp: 149191

Ion Ratio Lower Upper

95 100

174 93.0 0.0 187.6

176 91.7 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

150000

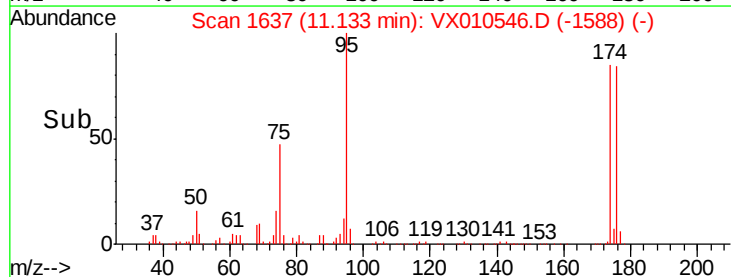
100000

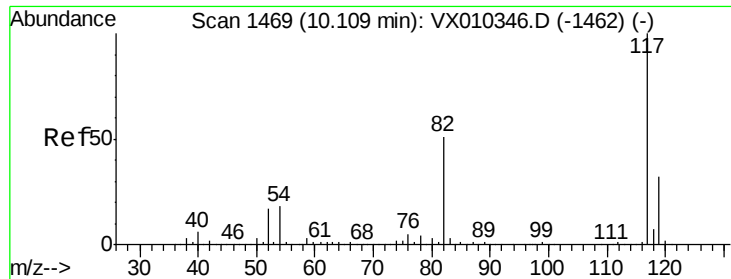
50000

0

11.10 11.20

Time-->

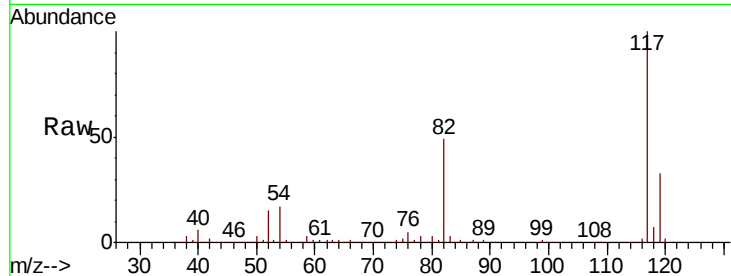




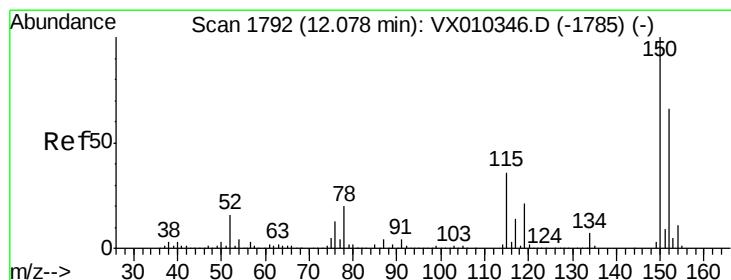
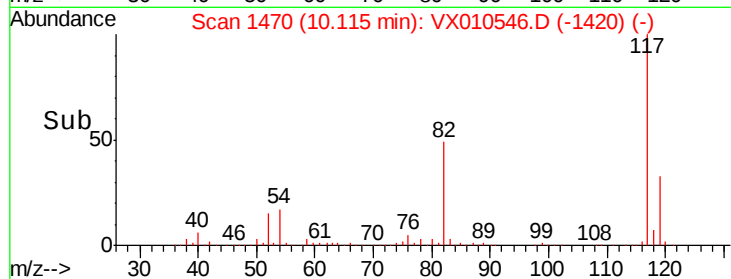
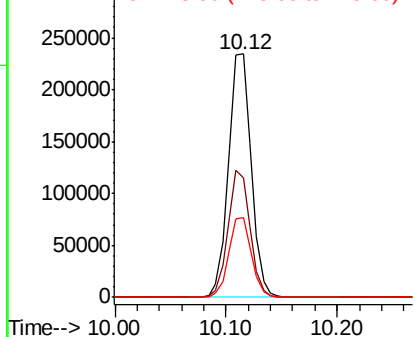
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX010546.D  
Acq: 28 Jun 2019 19:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
DAY-5

Tot Ion:117 Resp: 332249  
Ion Ratio Lower Upper  
117 100  
82 49.0 41.2 61.8  
119 32.8 25.5 38.3

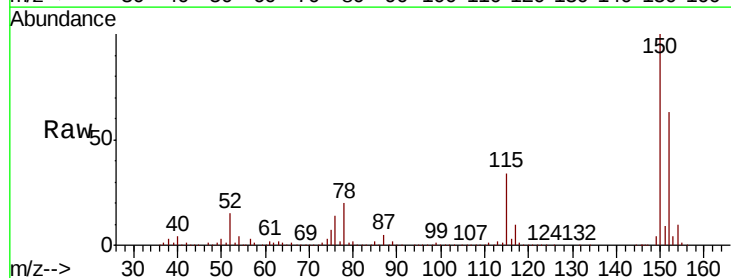


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

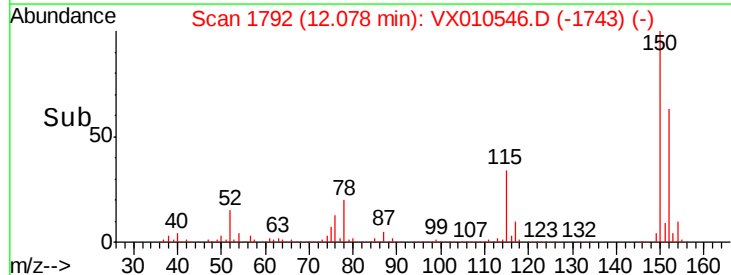
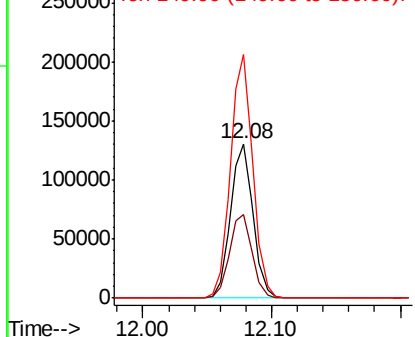


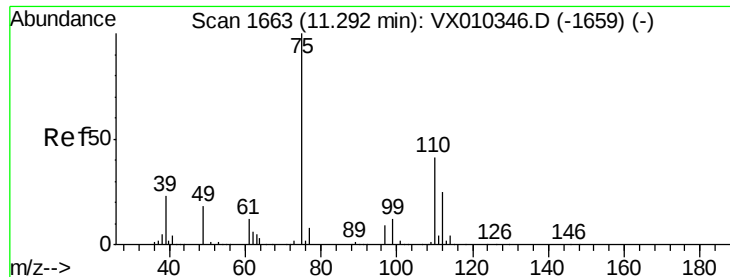
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX010546.D  
Acq: 28 Jun 2019 19:41

Tgt Ion:152 Resp: 159733  
Ion Ratio Lower Upper  
152 100  
115 55.0 38.6 115.7  
150 156.9 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

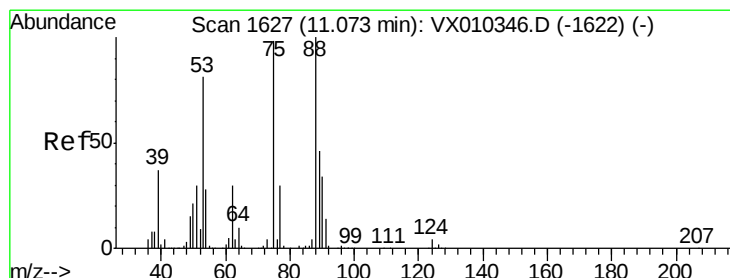
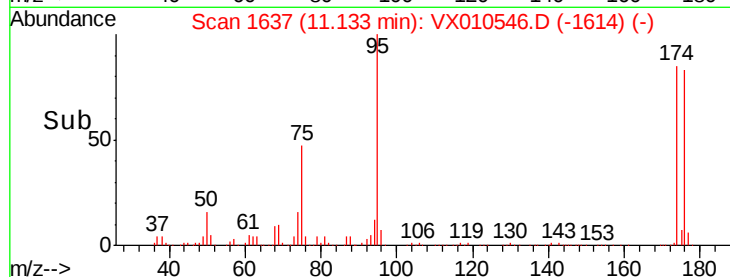
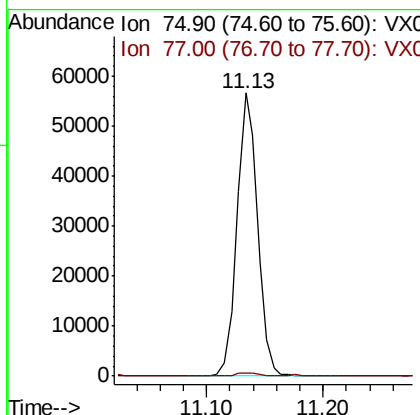
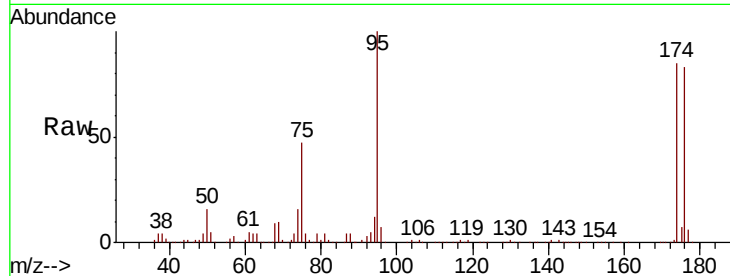




#76  
 1,2,3-Trichloropropane  
 Concen: 24.013 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX010546.D  
 Acq: 28 Jun 2019 19:41

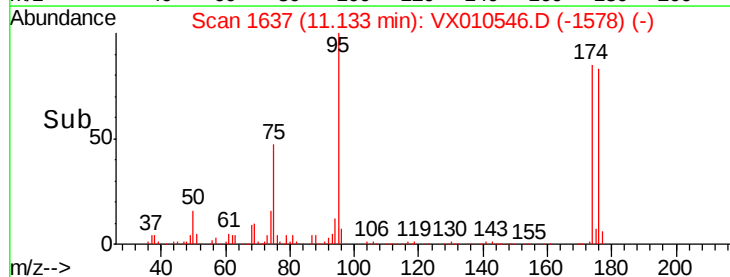
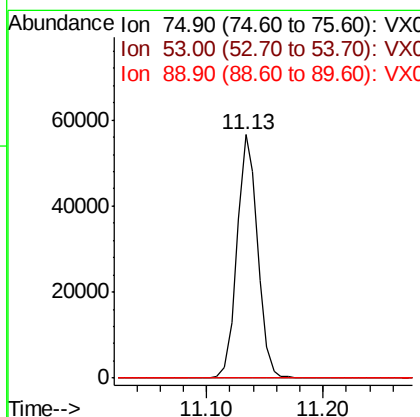
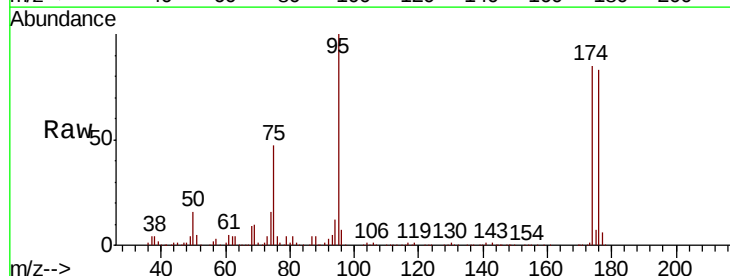
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DAY-5

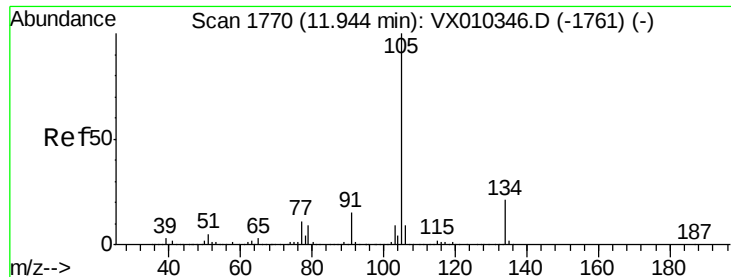
Tot Ion: 75 Resp: 69896  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 22.6 67.8#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 56.020 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX010546.D  
 Acq: 28 Jun 2019 19:41

Tgt Ion: 75 Resp: 69896  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 66.1 99.1#  
 89 0.1 37.8 56.6#





#85

sec-Butylbenzene

Concen: 0.372 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

Instrument :

MSVOA\_X

ClientSampleId :

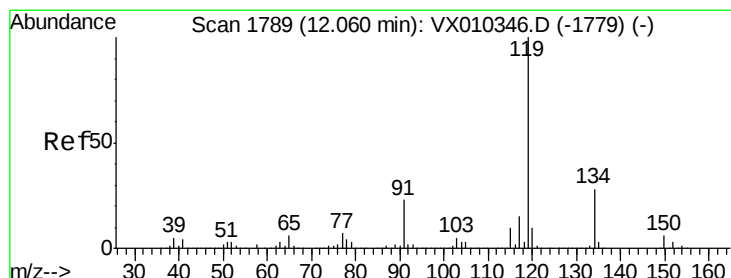
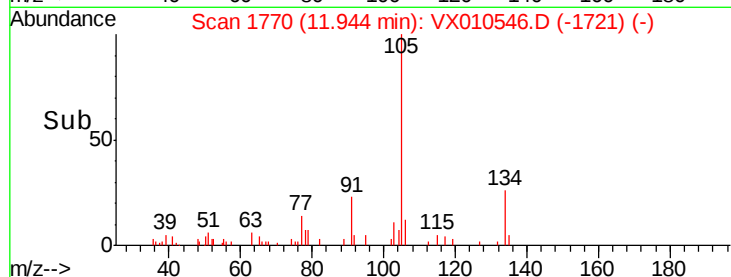
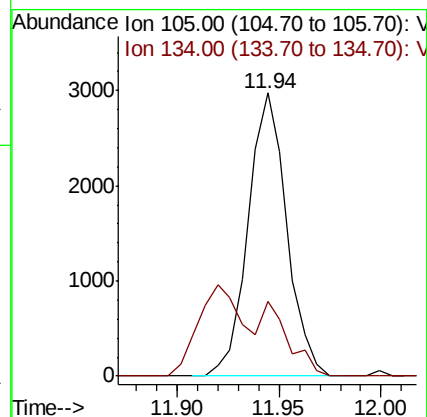
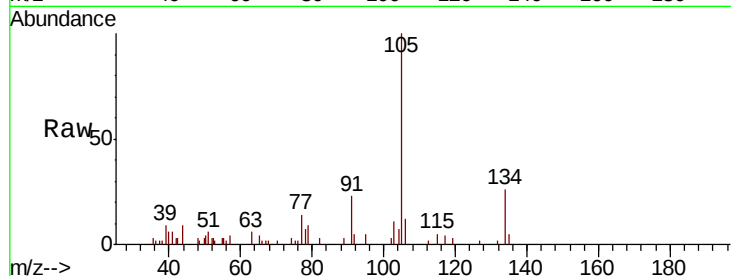
DAY-5

Tot Ion:105 Resp: 3916

Ion Ratio Lower Upper

105 100

134 0.0 10.7 31.9#



#86

p-Isopropyltoluene

Concen: 0.338 ug/l

RT: 12.23 min Scan# 1817

Delta R.T. 0.17 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

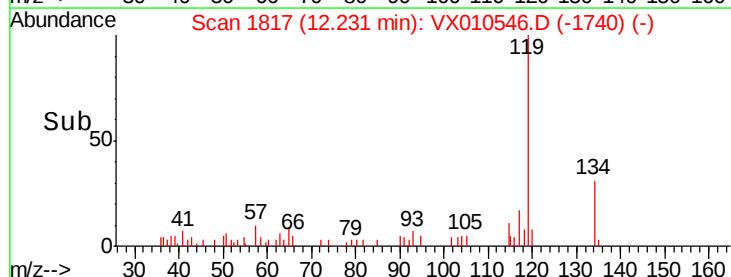
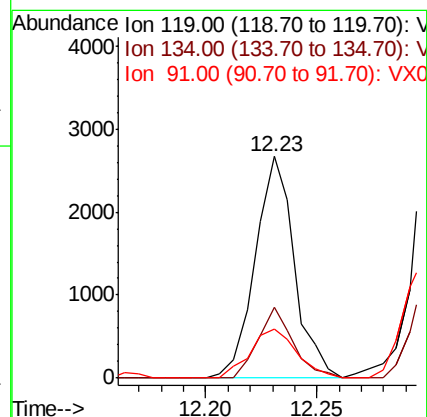
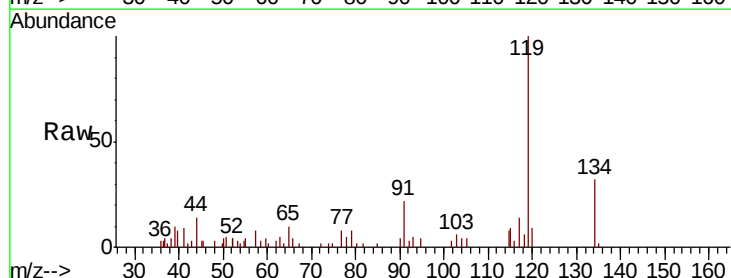
Tgt Ion:119 Resp: 3287

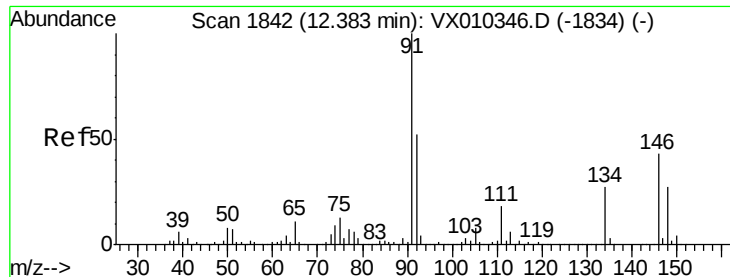
Ion Ratio Lower Upper

119 100

134 28.6 13.7 41.1

91 26.3 11.3 33.8

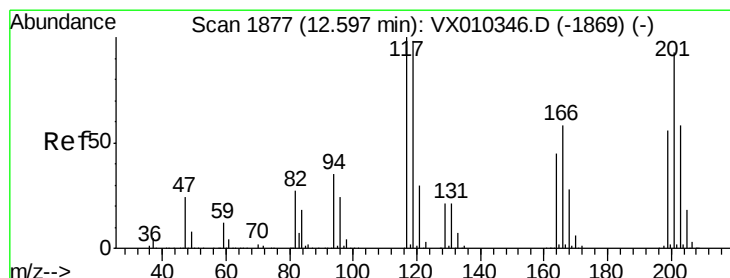
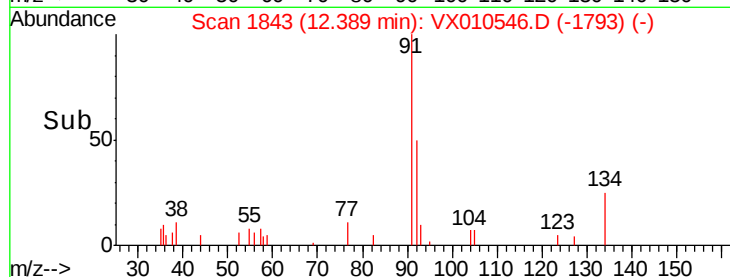
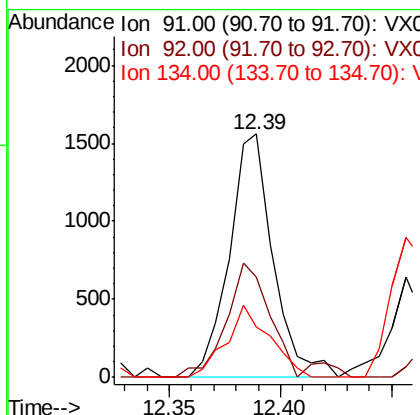
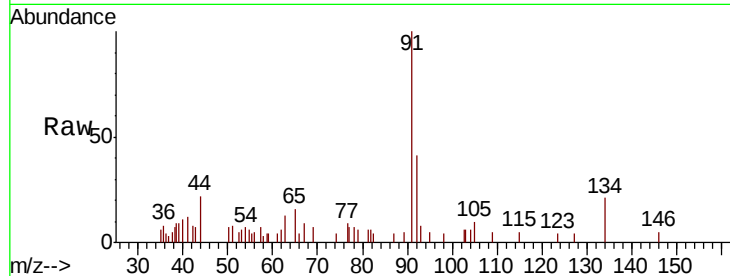




#89  
n-Butylbenzene  
Concen: 0.259 ug/l  
RT: 12.39 min Scan# 1843  
Delta R.T. 0.01 min  
Lab File: VX010546.D  
Acq: 28 Jun 2019 19:41

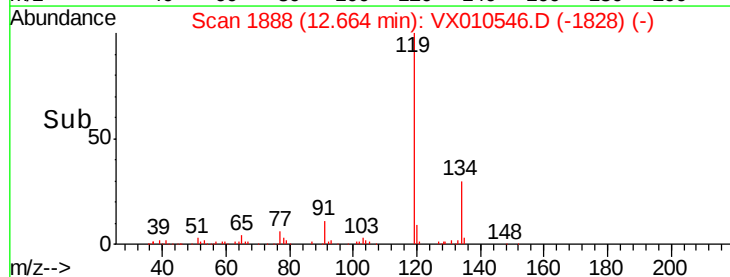
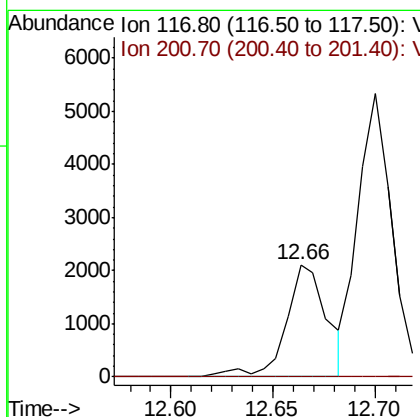
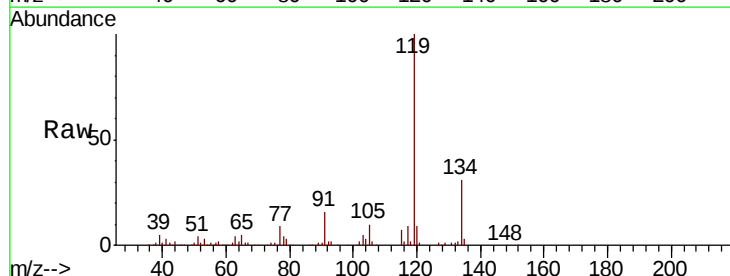
Instrument :  
MSVOA\_X  
ClientSampled :  
DAY-5

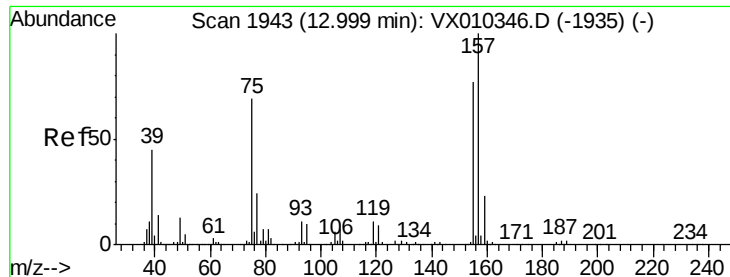
Tot Ion: 91 Resp: 2140  
Ion Ratio Lower Upper  
91 100  
92 47.5 26.2 78.5  
134 29.4 14.1 42.4



#90  
Hexachloroethane  
Concen: 1.752 ug/l  
RT: 12.66 min Scan# 1888  
Delta R.T. 0.07 min  
Lab File: VX010546.D  
Acq: 28 Jun 2019 19:41

Tgt Ion: 117 Resp: 2948  
Ion Ratio Lower Upper  
117 100  
201 0.0 44.0 131.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.565 ug/l

RT: 12.97 min Scan# 1939

Delta R.T. -0.02 min

Lab File: VX010546.D

Acq: 28 Jun 2019 19:41

Instrument :

MSVOA\_X

ClientSampleId :

DAY-5

Tot Ion: 75 Resp: 437

Ion Ratio Lower Upper

75 100

155 7.8 54.4 163.1#

157 0.0 69.5 208.3#

