

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020619\  
 Data File : VX007397.D  
 Acq On : 06 Feb 2019 14:11  
 Operator : JC/SP  
 Sample : K1386-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OUTFALL001-190205

Quant Time: Feb 07 00:01:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 602027   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 900786   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 798529   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 392469   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 313587   | 49.07 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.14% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 271958   | 46.40 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.80% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1053559  | 48.45 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.90% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 357318   | 45.01 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.02% |          |

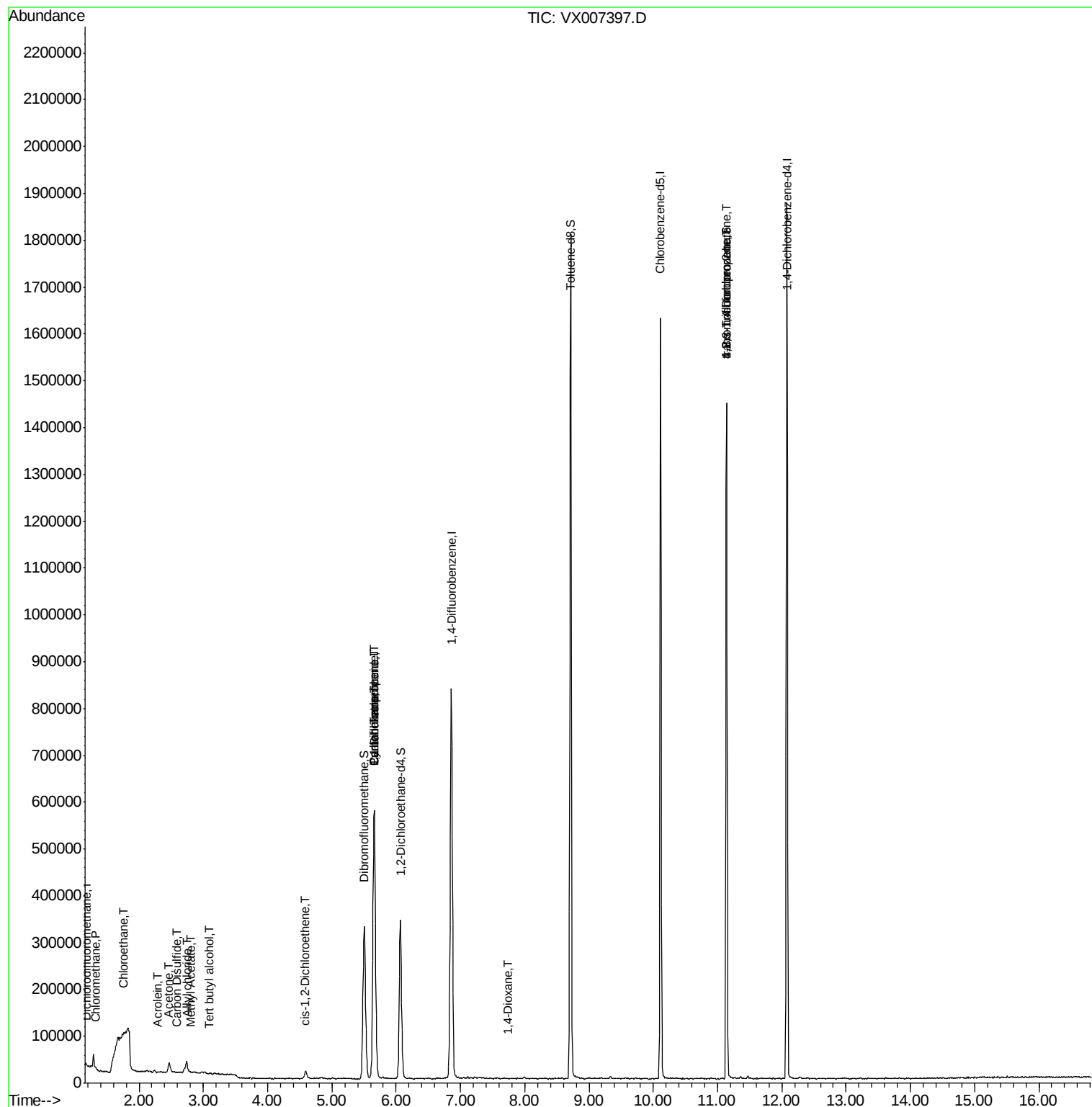
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.19  | 85   | 181      | 0.202     | ug/l   | 72     |
| 3) Chloromethane               | 1.32  | 50   | 2730     | 0.403     | ug/l   | 90     |
| 5) Bromomethane                | 1.64  | 94   | 2219     | Below Cal |        | 94     |
| 6) Chloroethane                | 1.76  | 64   | 968      | 0.225     | ug/l # | 82     |
| 11) Tert butyl alcohol         | 3.09  | 59   | 289      | 0.219     | ug/l # | 73     |
| 13) Acrolein                   | 2.29  | 56   | 184      | 0.297     | ug/l # | 57     |
| 14) Allyl chloride             | 2.74  | 41   | 2397     | 0.256     | ug/l # | 47     |
| 16) Acetone                    | 2.47  | 43   | 16247    | 5.551     | ug/l   | 93     |
| 17) Carbon Disulfide           | 2.59  | 76   | 173      | 2.132     | ug/l # | 75     |
| 18) Methyl Acetate             | 2.79  | 43   | 3423     | 1.037     | ug/l   | 95     |
| 20) Methylene Chloride         | 2.85  | 84   | 1275     | Below Cal | #      | 37     |
| 27) cis-1,2-Dichloroethene     | 4.59  | 96   | 10763    | 1.609     | ug/l   | 97     |
| 31) Cyclohexane                | 5.65  | 56   | 10340    | 1.164     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 37584    | 4.650     | ug/l # | 40     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 50681    | 6.464     | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.74  | 88   | 170      | 8.056     | ug/l # | 72     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 171709   | 22.493    | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 171709   | 67.872    | ug/l # | 9      |

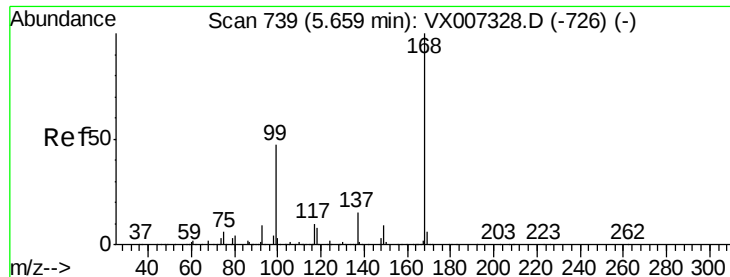
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX020619\  
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Quant Time: Feb 07 00:01:28 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Feb 02 01:32:36 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

Instrument :

MSVOA\_X

ClientSampleId :

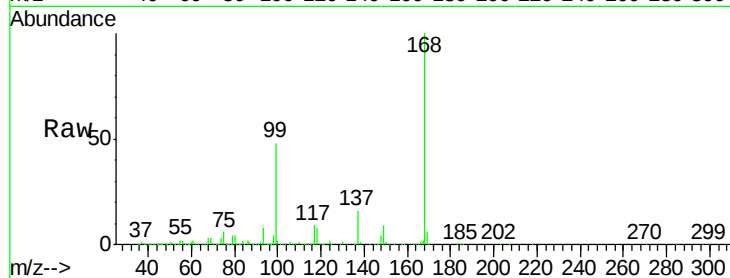
OUTFALL001-190205

Tot Ion:168 Resp: 602027

Ion Ratio Lower Upper

168 100

99 47.7 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

250000

200000

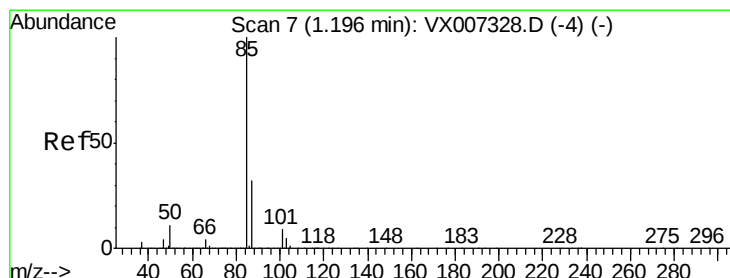
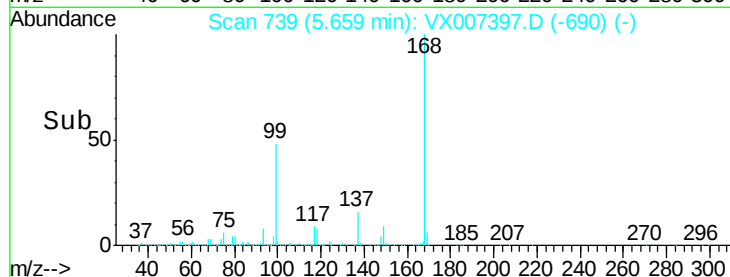
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.202 ug/l

RT: 1.19 min Scan# 6

Delta R.T. -0.01 min

Lab File: VX007397.D

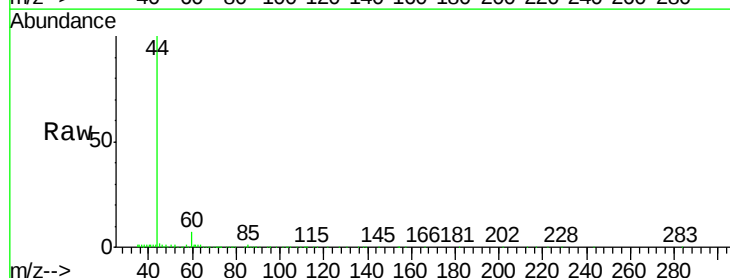
Acq: 06 Feb 2019 14:11

Tgt Ion: 85 Resp: 181

Ion Ratio Lower Upper

85 100

87 16.1 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

250

200

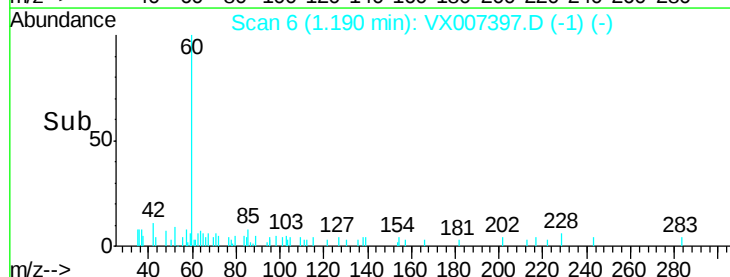
150

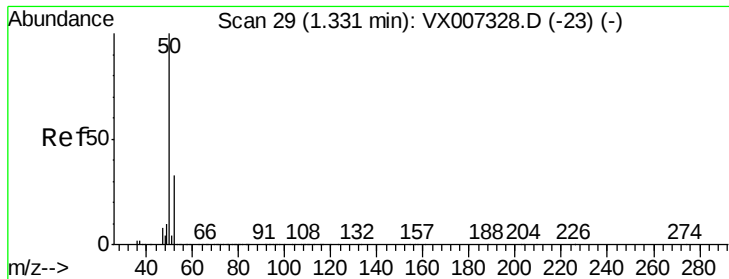
100

50

0

Time-->





#3

Chloromethane

Concen: 0.403 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

Instrument :

MSVOA\_X

ClientSampleId :

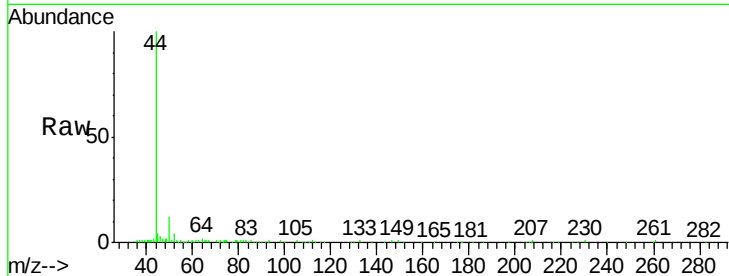
OUTFALL001-190205

Tot Ion: 50 Resp: 2730

Ion Ratio Lower Upper

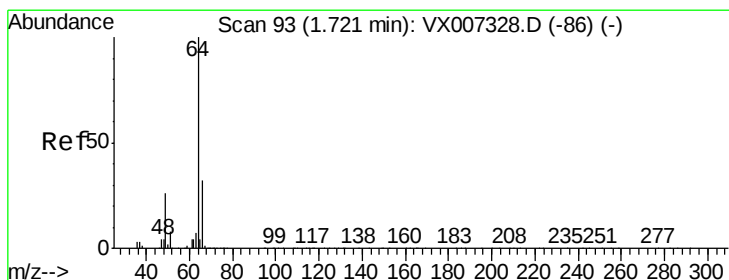
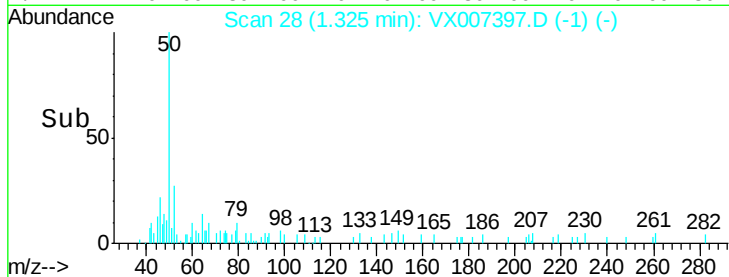
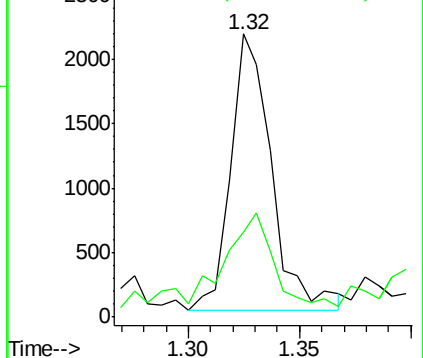
50 100

52 27.0 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#6

Chloroethane

Concen: 0.225 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.04 min

Lab File: VX007397.D

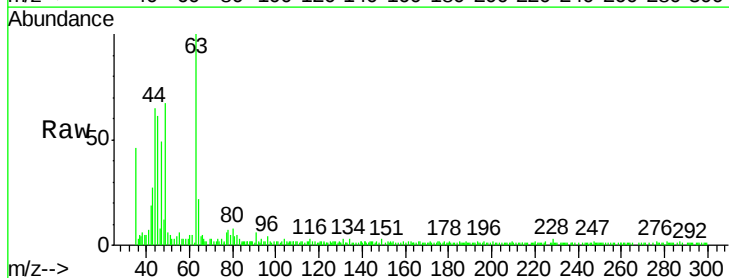
Acq: 06 Feb 2019 14:11

Tgt Ion: 64 Resp: 968

Ion Ratio Lower Upper

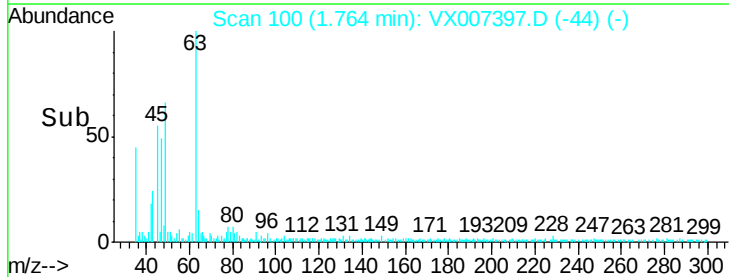
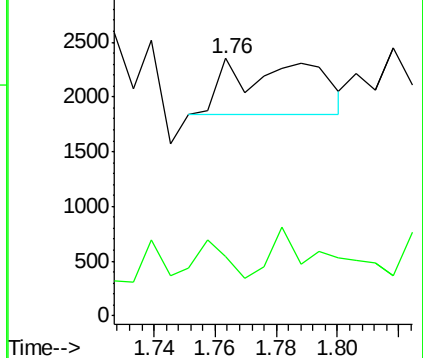
64 100

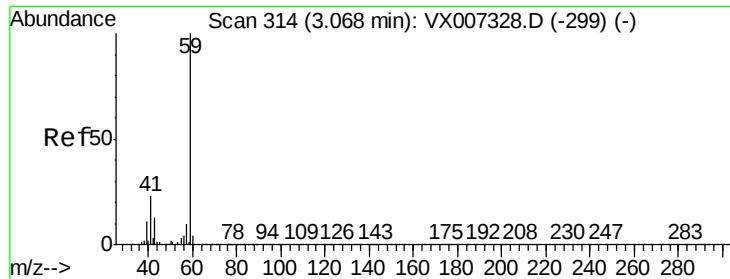
66 21.8 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



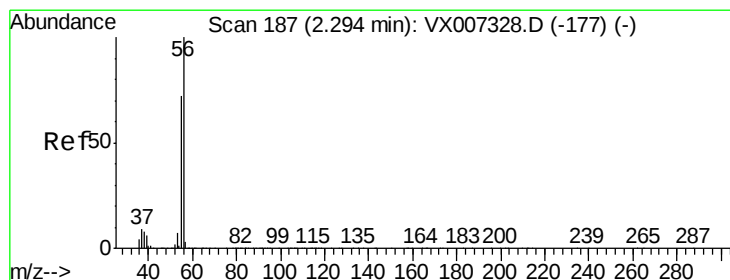
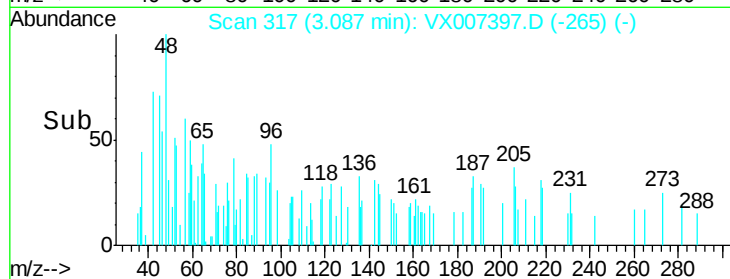
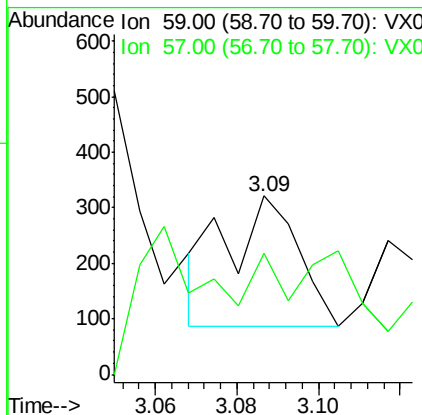
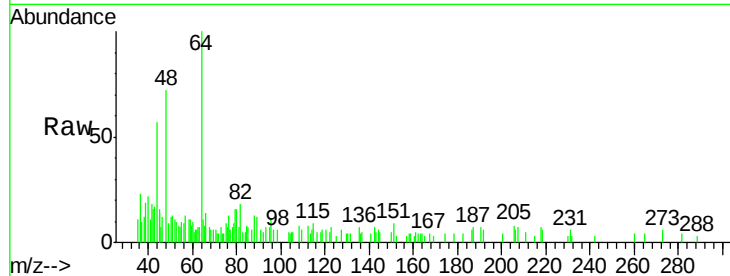


#11

Tert butyl alcohol  
 Concen: 0.219 ug/l  
 RT: 3.09 min Scan# 317  
 Delta R.T. 0.02 min  
 Lab File: VX007397.D  
 Acq: 06 Feb 2019 14:11

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OUTFALL001-190205

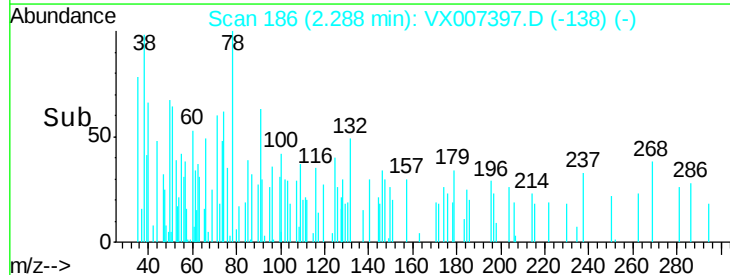
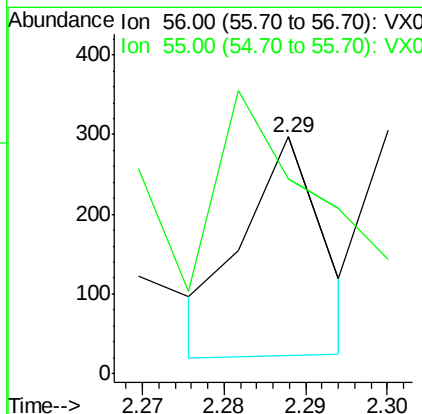
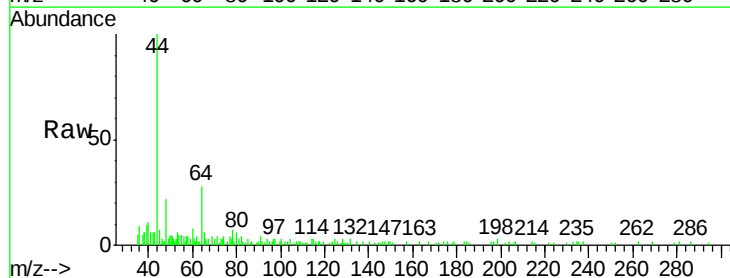
Tot Ion: 59 Resp: 289  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.1 12.1#

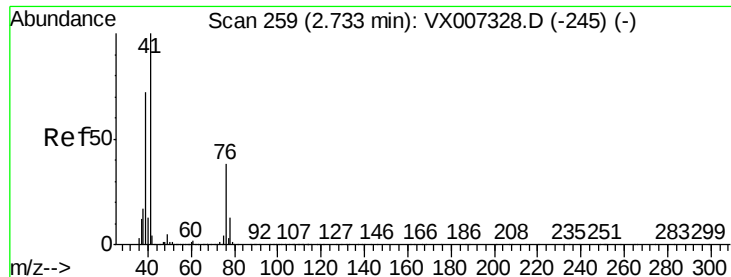


#13

Acrolein  
 Concen: 0.297 ug/l  
 RT: 2.29 min Scan# 186  
 Delta R.T. -0.01 min  
 Lab File: VX007397.D  
 Acq: 06 Feb 2019 14:11

Tgt Ion: 56 Resp: 184  
 Ion Ratio Lower Upper  
 56 100  
 55 107.1 56.9 85.3#





#14

Allvl chloride

Concen: 0.256 ug/l

RT: 2.74 min Scan# 260

Delta R.T. 0.01 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

Instrument :

MSVOA\_X

ClientSampleId :

OUTFALL001-190205

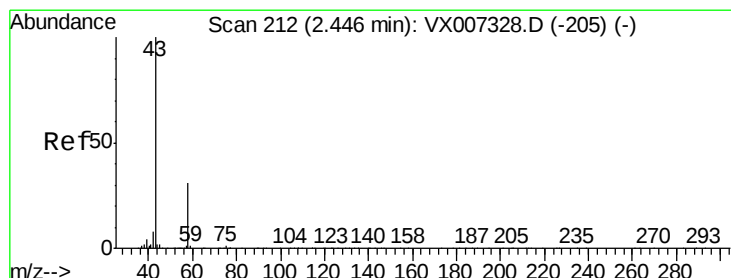
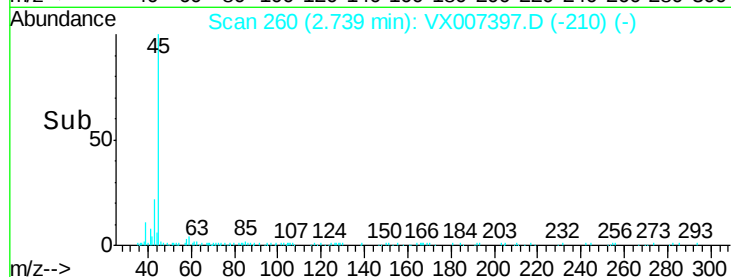
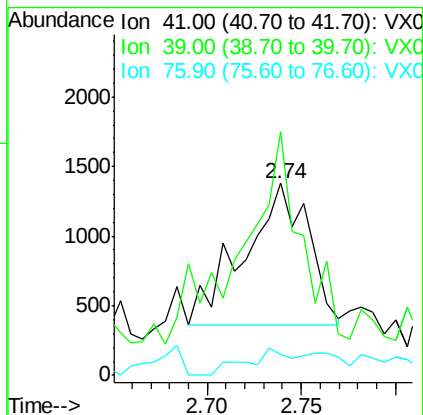
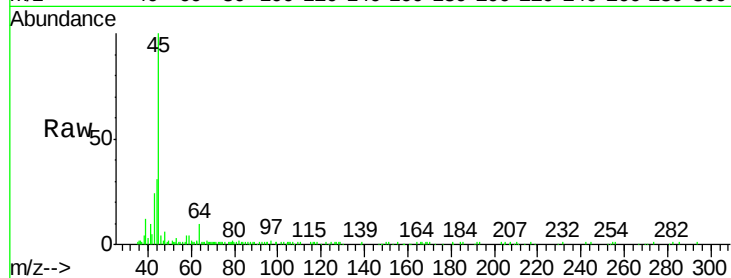
Tot Ion: 41 Resp: 2397

Ion Ratio Lower Upper

41 100

39 115.9 54.1 81.1#

76 12.7 27.8 41.8#



#16

Acetone

Concen: 5.551 ug/l

RT: 2.47 min Scan# 216

Delta R.T. 0.02 min

Lab File: VX007397.D

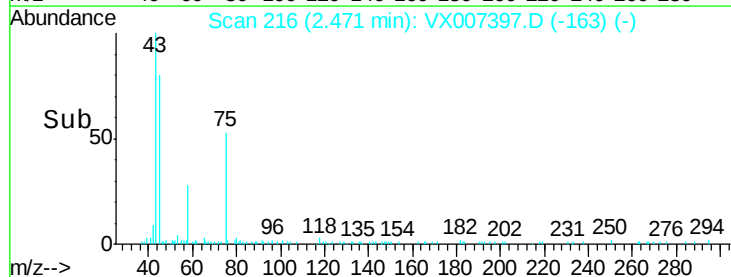
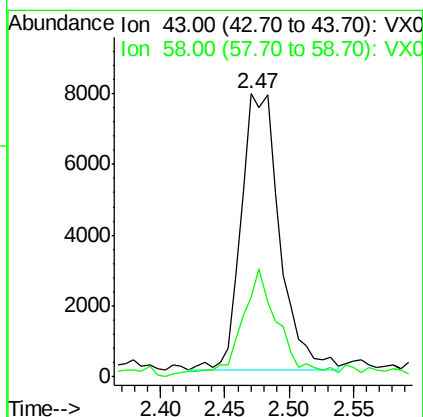
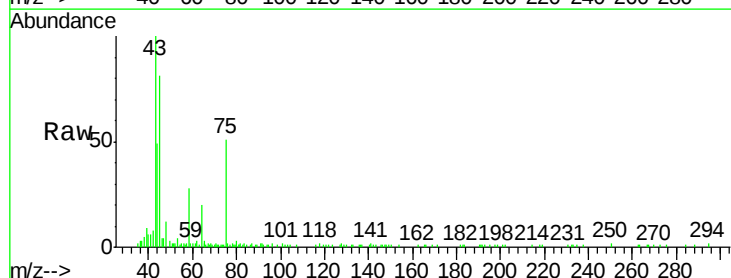
Acq: 06 Feb 2019 14:11

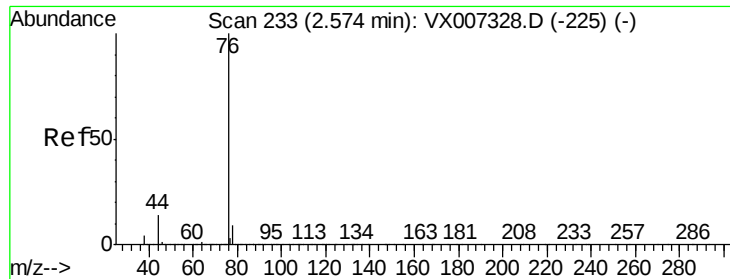
Tgt Ion: 43 Resp: 16247

Ion Ratio Lower Upper

43 100

58 27.2 24.9 37.3





#17

Carbon Disulfide

Concen: 2.132 ug/l

RT: 2.59 min Scan# 236

Delta R.T. 0.02 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

Instrument :

MSVOA\_X

ClientSampleId :

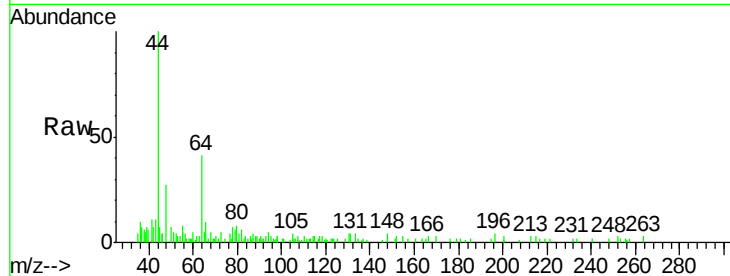
OUTFALL001-190205

Tot Ion: 76 Resp: 173

Ion Ratio Lower Upper

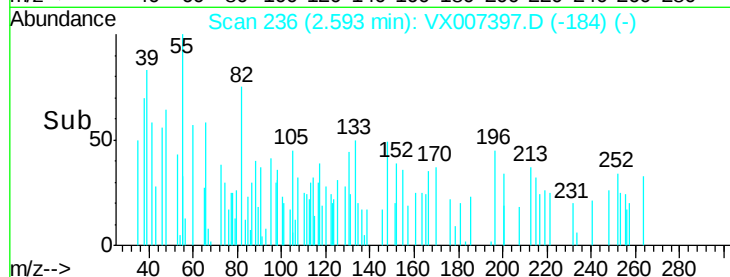
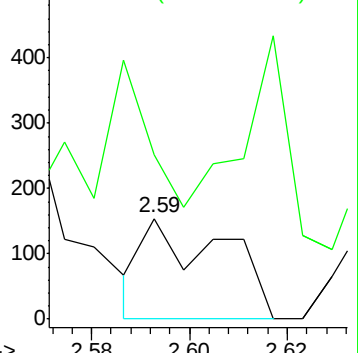
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 1.037 ug/l

RT: 2.79 min Scan# 269

Delta R.T. 0.02 min

Lab File: VX007397.D

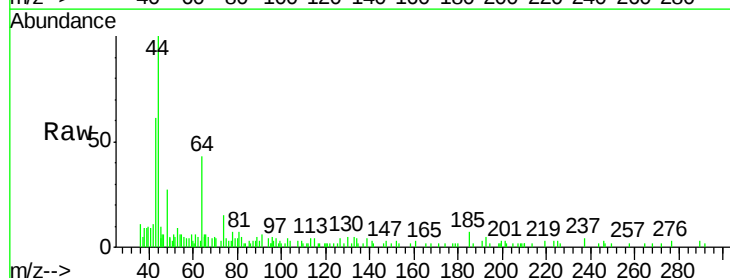
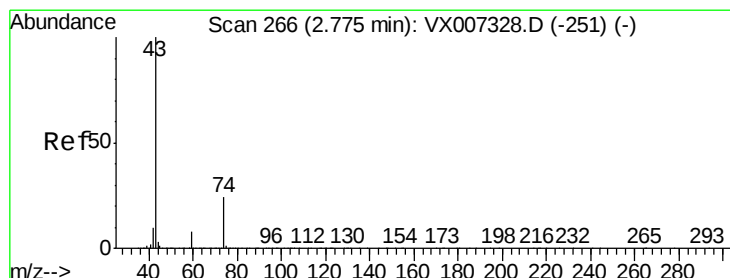
Acq: 06 Feb 2019 14:11

Tgt Ion: 43 Resp: 3423

Ion Ratio Lower Upper

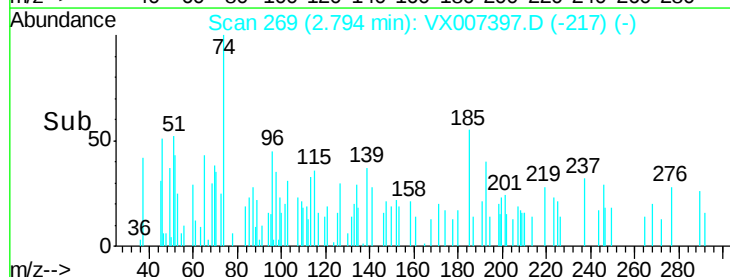
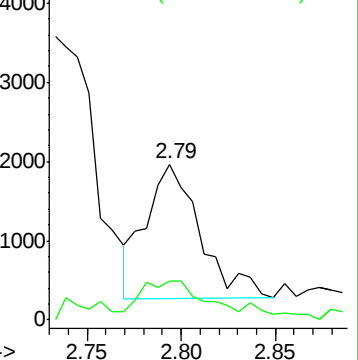
43 100

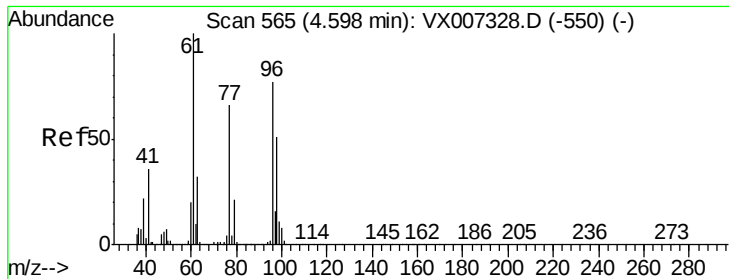
74 26.7 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



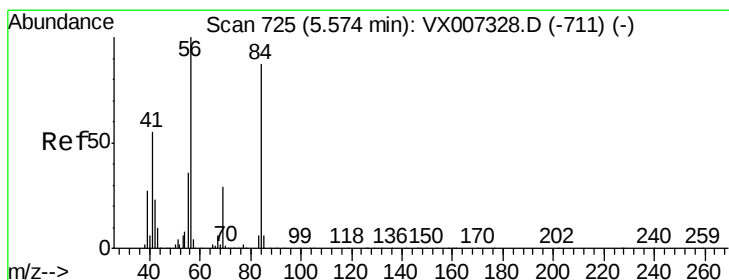
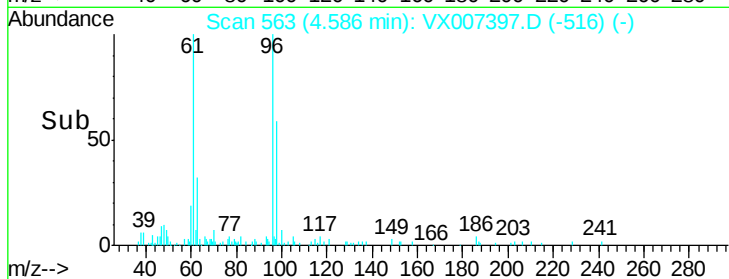
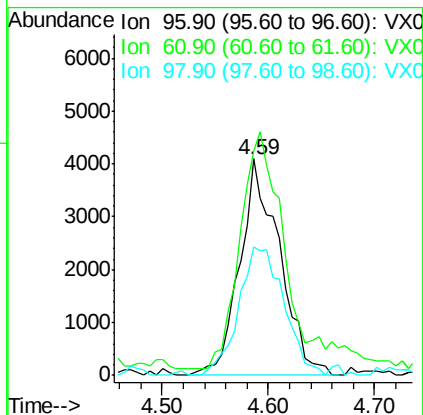
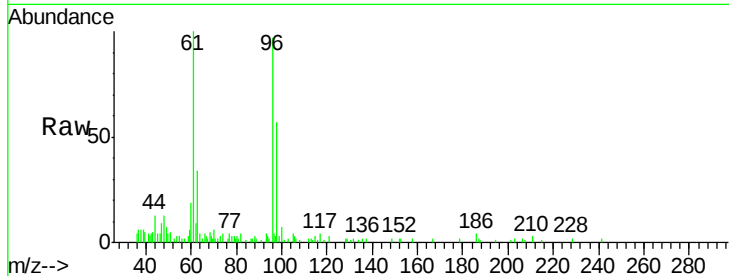


#27

cis-1,2-Dichloroethene  
 Concen: 1.609 ug/l  
 RT: 4.59 min Scan# 563  
 Delta R.T. -0.01 min  
 Lab File: VX007397.D  
 Acq: 06 Feb 2019 14:11

Instrument :  
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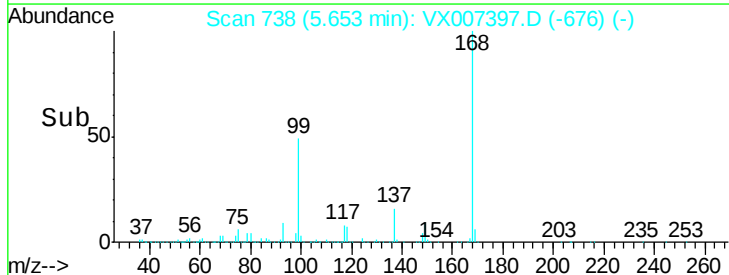
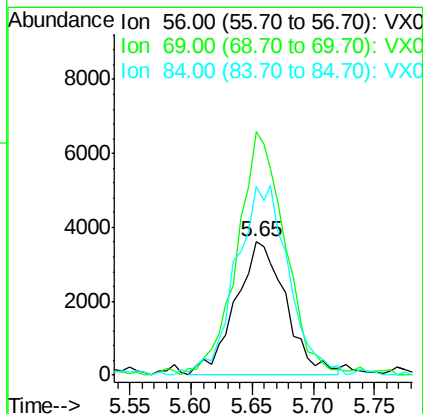
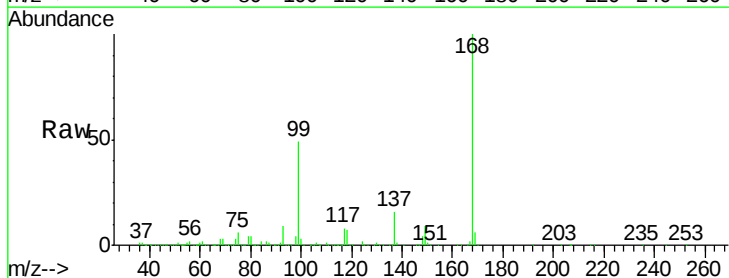
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 128.1 | 0.0   | 265.6 |
| 98      | 67.3  | 0.0   | 131.6 |

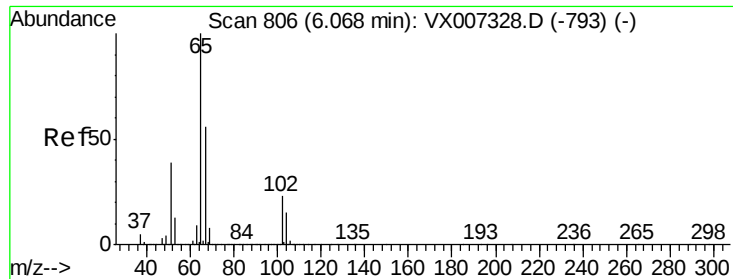


#31

Cyclohexane  
 Concen: 1.164 ug/l  
 RT: 5.65 min Scan# 738  
 Delta R.T. 0.08 min  
 Lab File: VX007397.D  
 Acq: 06 Feb 2019 14:11

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 56      | 100   |       |        |
| 69      | 178.5 | 23.0  | 34.6#  |
| 84      | 138.9 | 69.8  | 104.6# |





#33

1,2-Dichloroethane-d4

Concen: 49.074 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

Instrument :

MSVOA\_X

ClientSampleId :

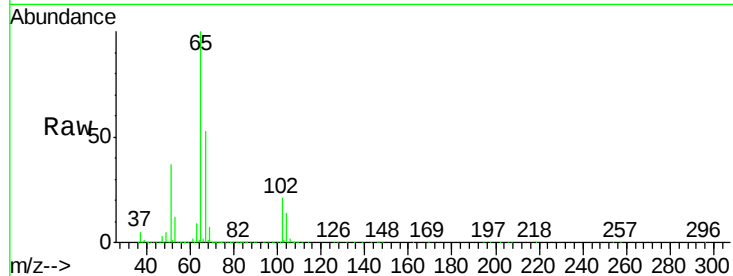
OUTFALL001-190205

Tot Ion: 65 Resp: 313587

Ion Ratio Lower Upper

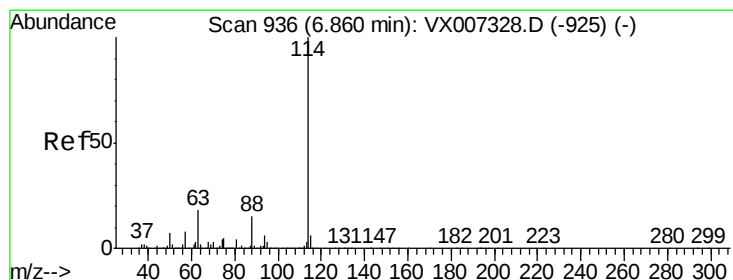
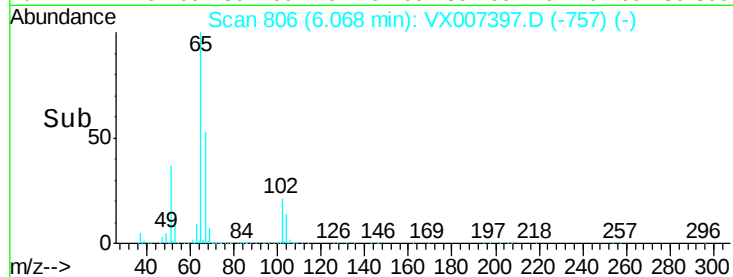
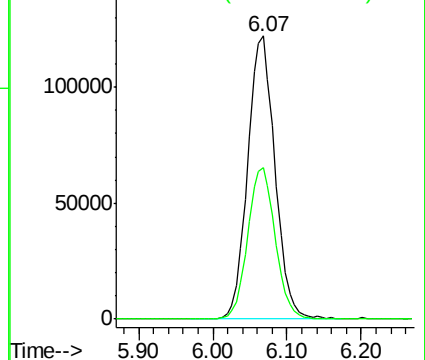
65 100

67 54.2 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

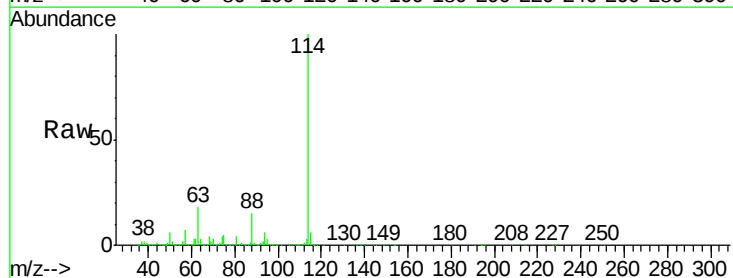
Tgt Ion: 114 Resp: 900786

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.6

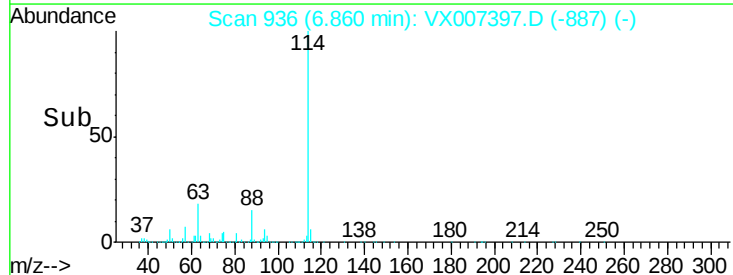
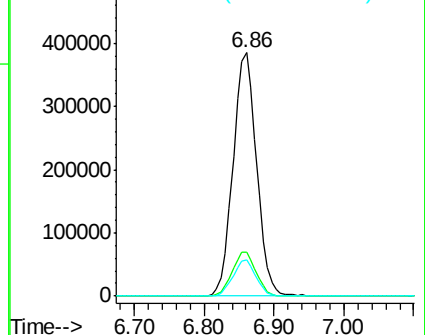
88 14.7 0.0 29.6

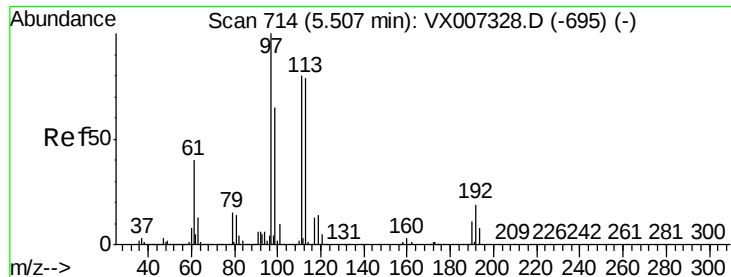


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.401 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

Instrument :

MSVOA\_X

ClientSampleId :

OUTFALL001-190205

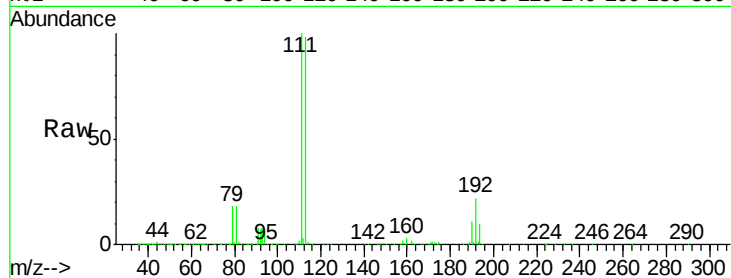
Tot Ion:113 Resp: 271958

Ion Ratio Lower Upper

113 100

111 102.8 81.8 122.8

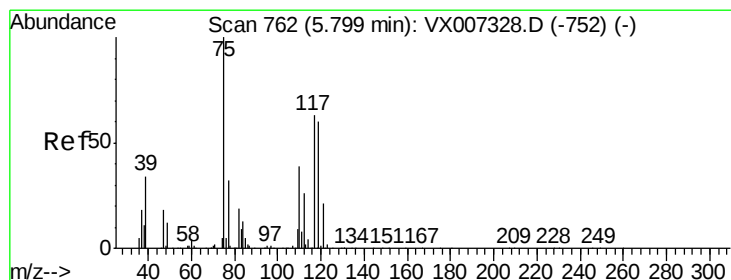
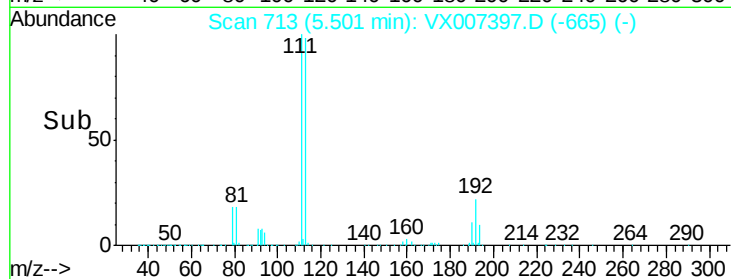
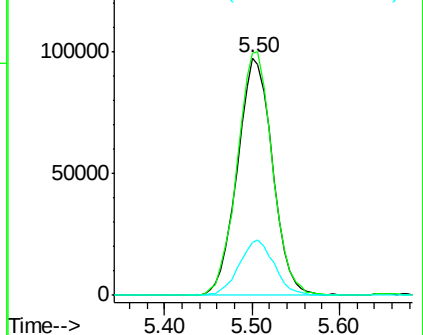
192 23.3 18.5 27.7



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: 4.650 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

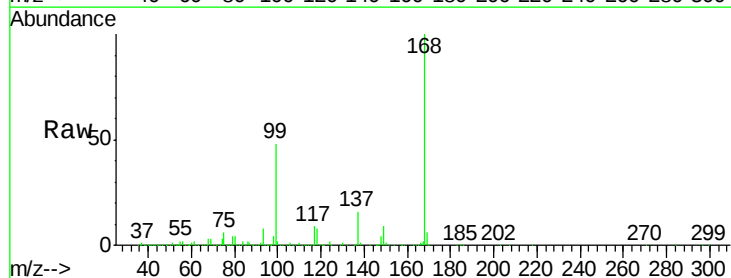
Tgt Ion: 75 Resp: 37584

Ion Ratio Lower Upper

75 100

110 0.0 20.0 59.9#

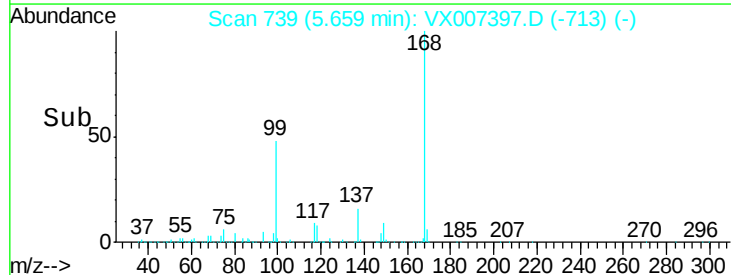
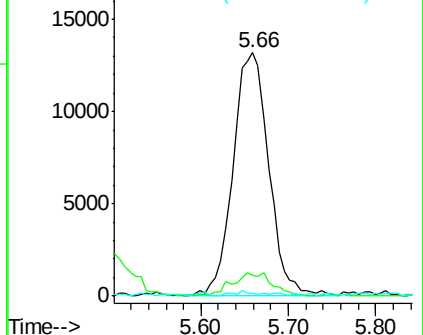
77 1.1 24.7 37.1#

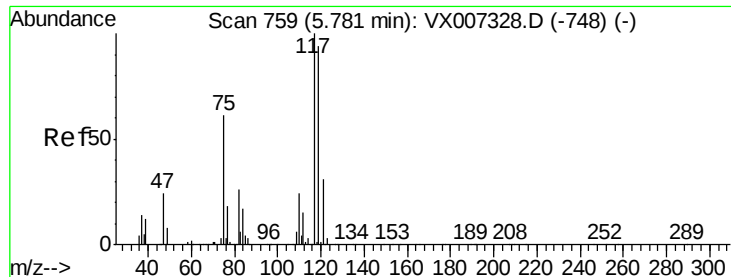


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.464 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

Instrument :

MSVOA\_X

ClientSampleId :

OUTFALL001-190205

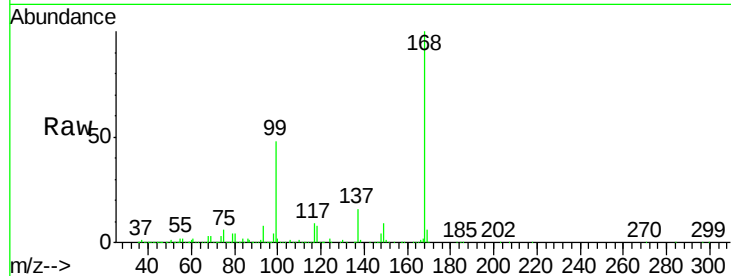
Tot Ion:117 Resp: 50681

Ion Ratio Lower Upper

117 100

119 5.2 75.3 112.9#

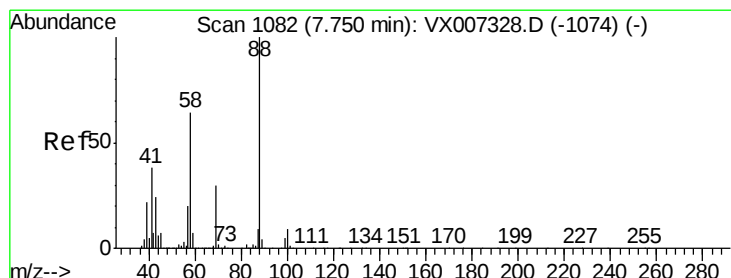
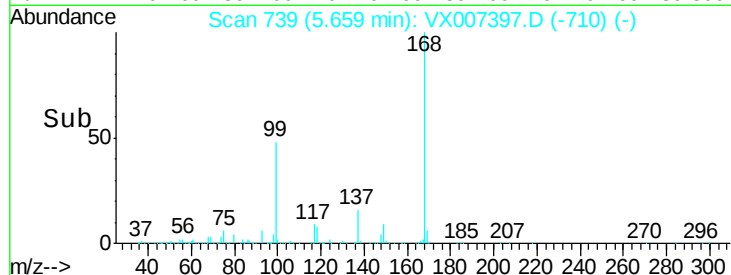
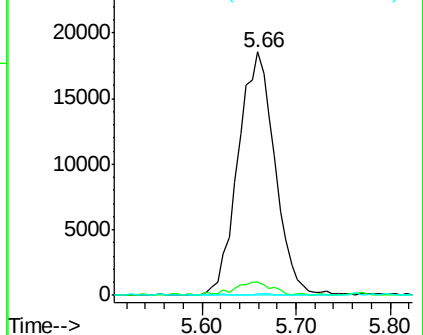
121 0.9 25.0 37.4#



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: 8.056 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

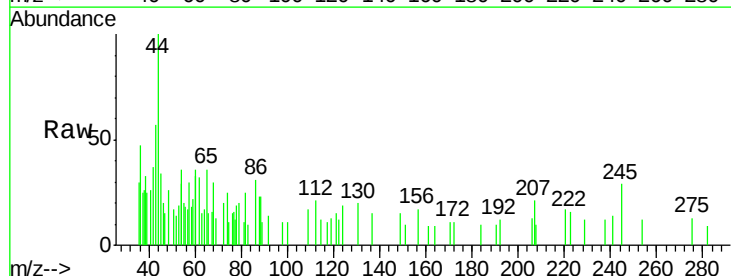
Tgt Ion: 88 Resp: 170

Ion Ratio Lower Upper

88 100

43 66.5 24.2 36.4#

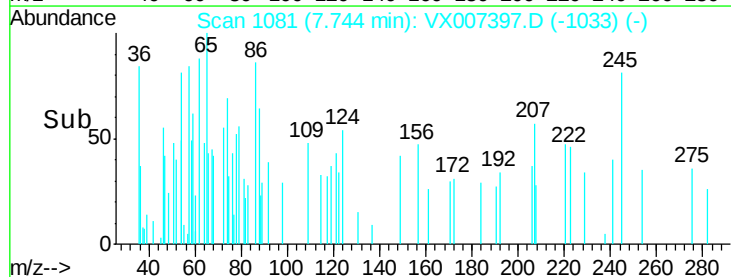
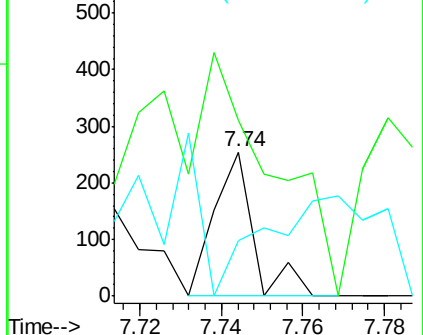
58 74.7 53.0 79.4

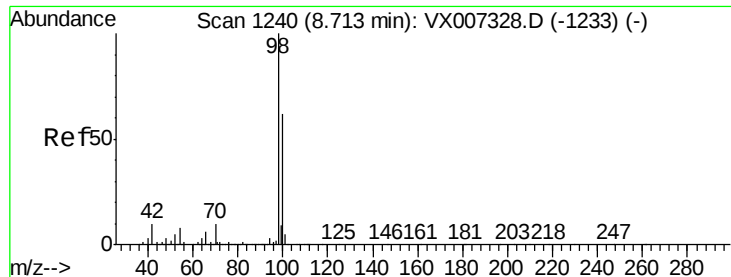


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.449 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

Instrument :

MSVOA\_X

ClientSampleId :

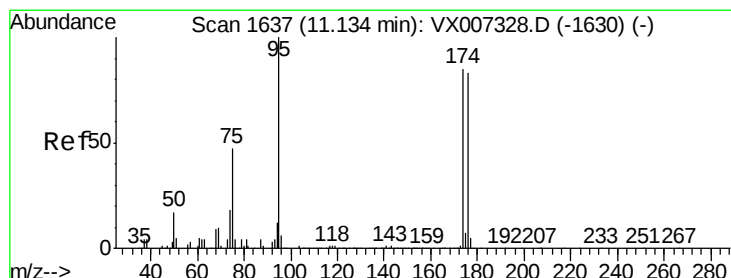
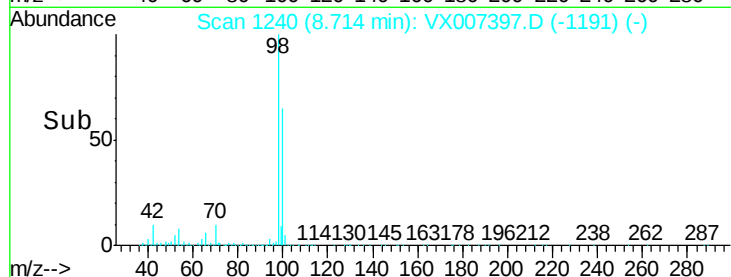
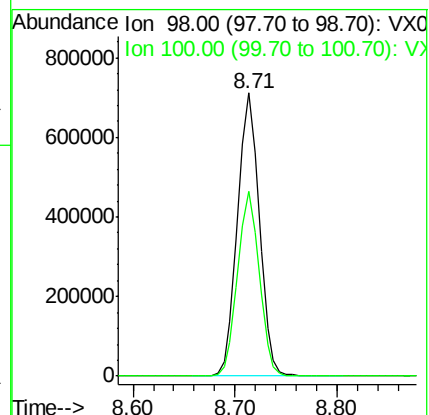
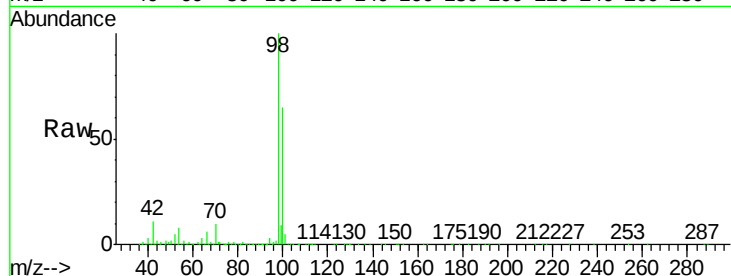
OUTFALL001-190205

Tot Ion: 98 Resp: 1053559

Ion Ratio Lower Upper

98 100

100 64.7 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 45.006 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

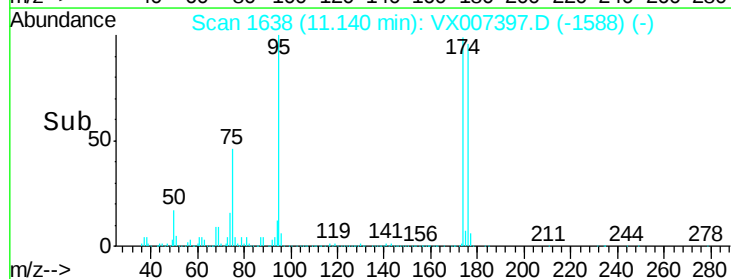
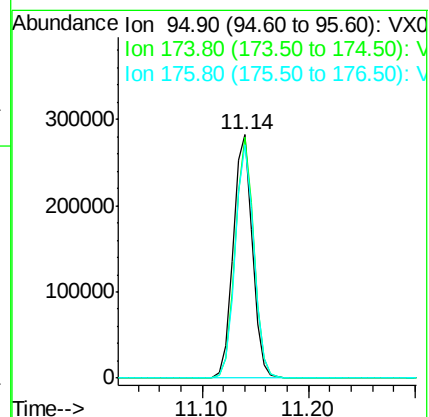
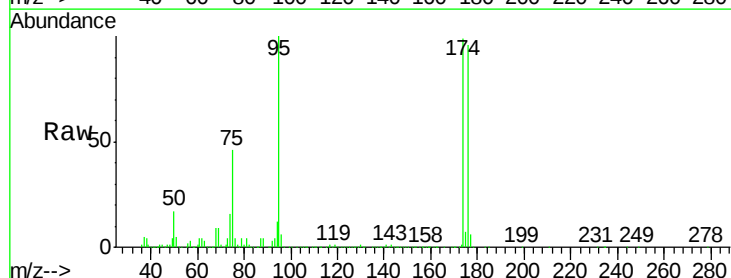
Tgt Ion: 95 Resp: 357318

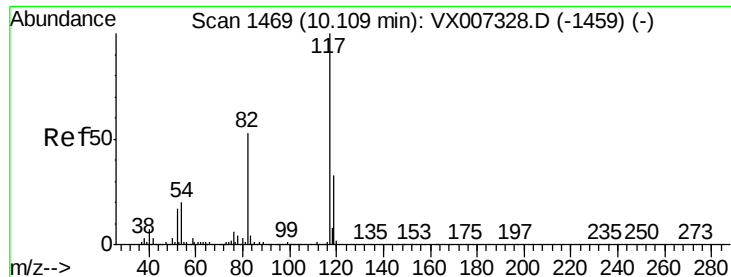
Ion Ratio Lower Upper

95 100

174 96.5 0.0 189.2

176 94.0 0.0 186.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

Instrument :

MSVOA\_X

ClientSampleId :

OUTFALL001-190205

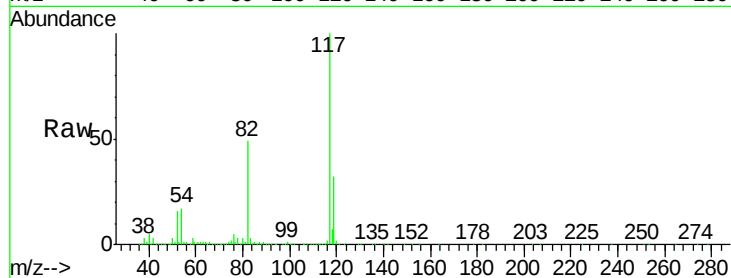
Tot Ion:117 Resp: 798529

Ion Ratio Lower Upper

117 100

82 49.0 42.1 63.1

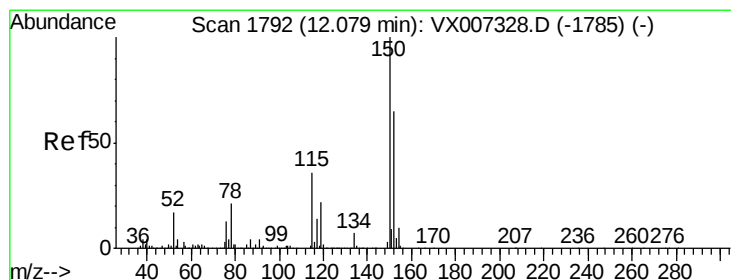
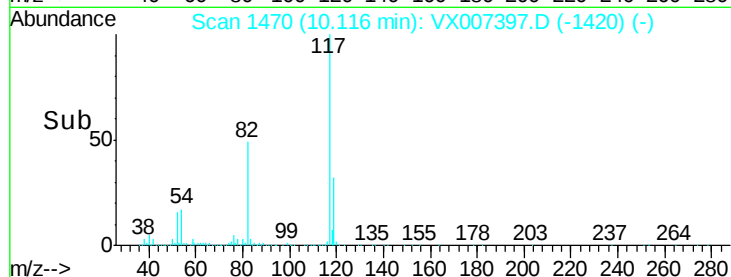
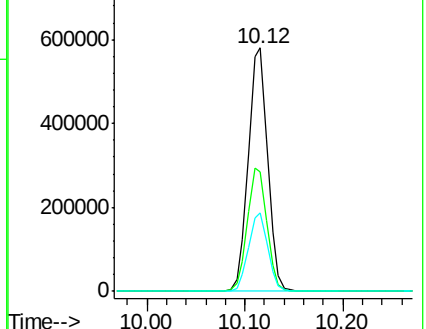
119 32.2 26.5 39.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

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: VX007397.D

Acq: 06 Feb 2019 14:11

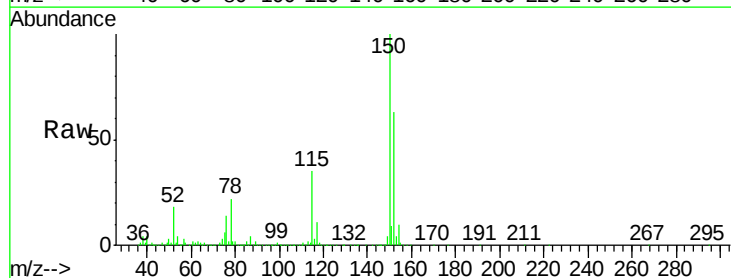
Tgt Ion:152 Resp: 392469

Ion Ratio Lower Upper

152 100

115 54.9 38.0 114.0

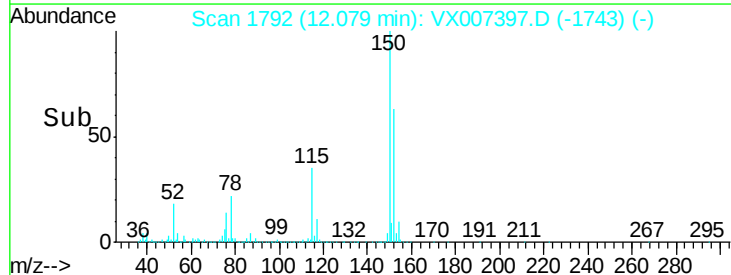
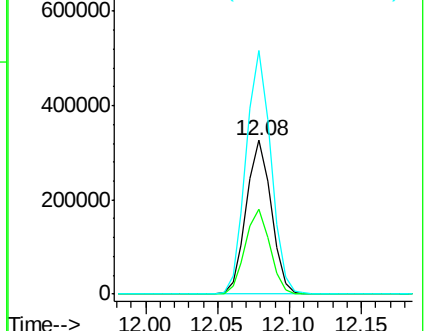
150 158.1 0.0 346.4

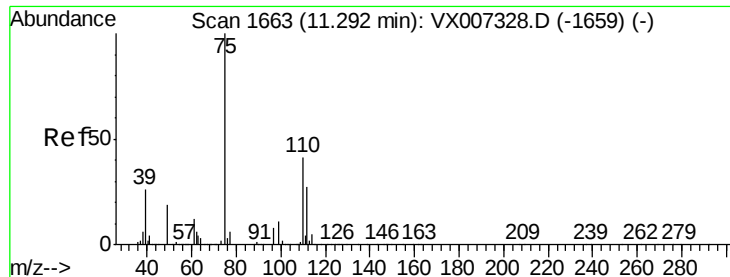


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.493 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.15 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

Instrument :

MSVOA\_X

ClientSampleId :

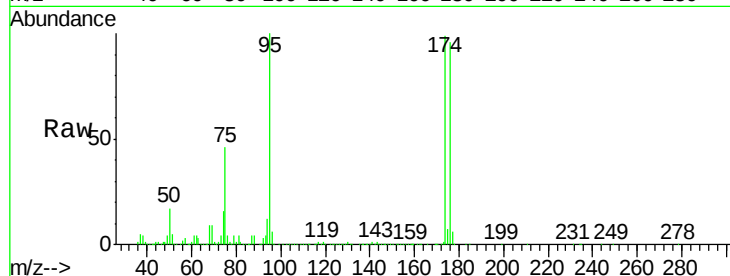
OUTFALL001-190205

Tot Ion: 75 Resp: 171709

Ion Ratio Lower Upper

75 100

77 1.3 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

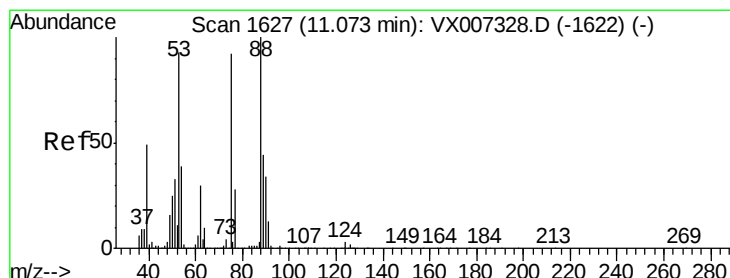
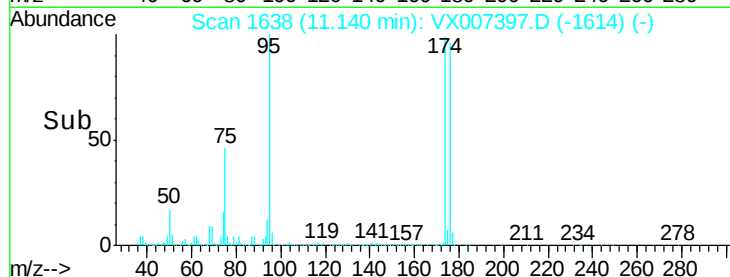
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 67.872 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX007397.D

Acq: 06 Feb 2019 14:11

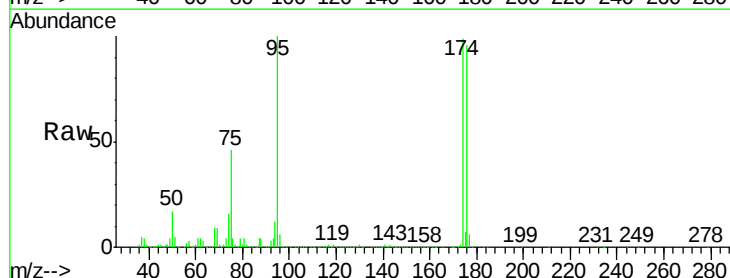
Tgt Ion: 75 Resp: 171709

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.0 41.4 62.0#



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

11.14

150000

100000

50000

0

Time-->

