

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063018\  
 Data File : VX003085.D  
 Acq On : 30 Jun 2018 18:03  
 Operator : JC/MD  
 Sample : J3716-07  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S22-0039

Quant Time: Jul 02 02:44:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 272622   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 374443   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 354390   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 216567   | 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   | 171880   | 45.61 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.22% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 141264   | 47.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.28% |          |
| 50) Toluene-d8              | 8.72  | 98   | 530434   | 48.99 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.98% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 197293   | 47.24 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.48% |          |

| Target Compounds              | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|-------------------------------|-------|------|----------|-----------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20  | 85   | 161      | Below Cal | #     | 43     |
| 3) Chloromethane              | 1.32  | 50   | 914      | Below Cal |       | 90     |
| 5) Bromomethane               | 1.66  | 94   | 1684     | Below Cal |       | 81     |
| 6) Chloroethane               | 1.73  | 64   | 1950     | Below Cal | #     | 59     |
| 10) Methyl Iodide             | 2.51  | 142  | 1773     | 6.73      | ug/l  | 93     |
| 11) Tert butyl alcohol        | 3.07  | 59   | 798      | 1.06      | ug/l  | 73     |
| 13) Acrolein                  | 2.32  | 56   | 114      | 4.50      | ug/l  | 14     |
| 14) Allyl chloride            | 2.84  | 41   | 37634    | 7.10      | ug/l  | 63     |
| 15) Acrylonitrile             | 3.17  | 53   | 3643     | 2.27      | ug/l  | 39     |
| 16) Acetone                   | 2.45  | 43   | 5376     | 3.45      | ug/l  | 97     |
| 18) Methyl Acetate            | 2.84  | 43   | 90804    | 20.81     | ug/l  | 55     |
| 20) Methylene Chloride        | 2.85  | 84   | 1651     | 0.54      | ug/l  | 1      |
| 25) 2-Butanone                | 4.71  | 43   | 466      | 0.20      | ug/l  | 79     |
| 26) 2,2-Dichloropropane       | 4.39  | 77   | 4051     | 0.90      | ug/l  | 53     |
| 31) Cyclohexane               | 5.58  | 56   | 428794   | 90.74     | ug/l  | 94     |
| 36) 1,1-Dichloropropene       | 5.67  | 75   | 18317    | 4.46      | ug/l  | 51     |
| 38) Carbon Tetrachloride      | 5.67  | 117  | 24431    | 5.42      | ug/l  | 15     |
| 39) Methylcyclohexane         | 7.46  | 83   | 607938   | 127.10    | ug/l  | 98     |
| 43) Isopropyl Acetate         | 6.45  | 43   | 7520     | 1.01      | ug/l  | 68     |
| 45) 1,2-Dichloropropane       | 7.46  | 63   | 6718     | 2.12      | ug/l  | 1      |
| 48) Methyl methacrylate       | 7.73  | 41   | 35879    | 9.39      | ug/l  | 54     |
| 49) 1,4-Dioxane               | 7.98  | 88   | 25       | 0.34      | ug/l  | 22     |
| 51) 4-Methyl-2-Pentanone      | 8.67  | 43   | 8382     | 1.81      | ug/l  | 55     |
| 52) Toluene                   | 8.79  | 92   | 2348     | 0.31      | ug/l  | 91     |
| 55) 1,1,2-Trichloroethane     | 9.16  | 97   | 36058    | 11.48     | ug/l  | 18     |
| 56) Ethyl methacrylate        | 9.17  | 69   | 7427     | 1.62      | ug/l  | 1      |
| 59) 2-Hexanone                | 9.32  | 43   | 3203     | 0.91      | ug/l  | 96     |
| 67) Ethyl Benzene             | 10.26 | 91   | 5110247  | 343.67    | ug/l  | 98     |
| 68) m/p-Xylenes               | 10.37 | 106  | 2351667  | 410.35    | ug/l  | 95     |
| 69) o-Xylene                  | 10.70 | 106  | 6674     | 1.20      | ug/l  | 99     |
| 73) Isopropylbenzene          | 11.02 | 105  | 1086202  | 74.56     | ug/l  | 99     |
| 74) N-amyl acetate            | 6.45  | 43   | 7520     | 1.05      | ug/l  | 67     |
| 75) 1,1,2,2-Tetrachloroethane | 11.28 | 83   | 3544     | 0.79      | ug/l  | 42     |
| 76) 1,2,3-Trichloropropane    | 11.36 | 75   | 8073     | 2.06      | ug/l  | 1      |

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 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 2018  
 Response via : Initial Calibration

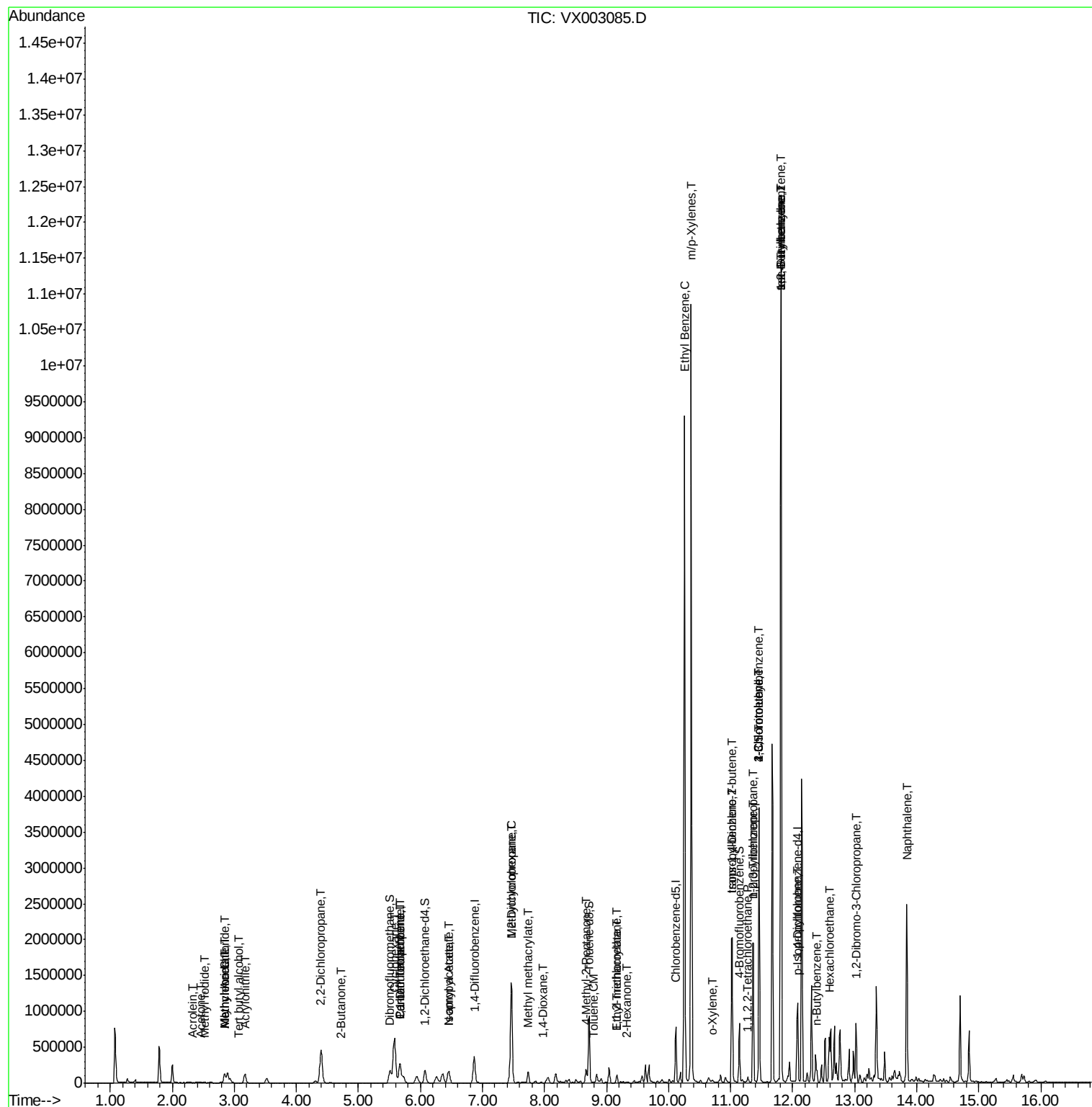
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 78) n-propylbenzene            | 11.37 | 91   | 1217476  | 73.41  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.46 | 91   | 201954   | 20.11  | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene     | 11.46 | 105  | 1807545  | 147.31 | ug/l   | 73       |
| 81) trans-1,4-Dichloro-2-buten | 11.02 | 75   | 13323    | 12.55  | ug/l # | 67       |
| 82) 4-Chlorotoluene            | 11.46 | 91   | 201954   | 16.99  | ug/l # | 44       |
| 83) tert-Butylbenzene          | 11.81 | 119  | 687018   | 56.81  | ug/l # | 65       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 5240850  | 412.22 | ug/l   | 96       |
| 85) sec-Butylbenzene           | 11.81 | 105  | 5240086  | 357.18 | ug/l # | 56       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 162372   | 12.31  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 78171    | 6.81   | ug/l # | 56       |
| 90) Hexachloroethane           | 12.59 | 117  | 28781    | 14.67  | ug/l # | 1        |
| 92) 1,2-Dibromo-3-Chloropropan | 13.02 | 75   | 2657     | 2.63   | ug/l # | 1        |
| 95) Naphthalene                | 13.84 | 128  | 1561172  | 105.31 | ug/l   | 100      |

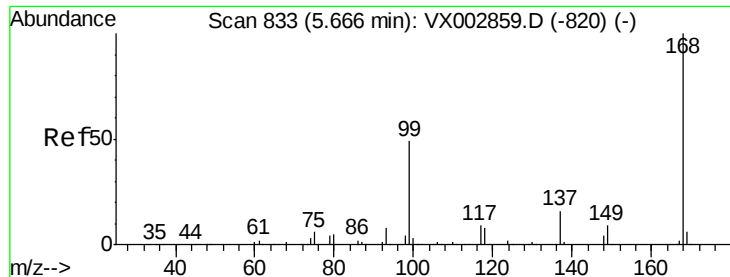
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

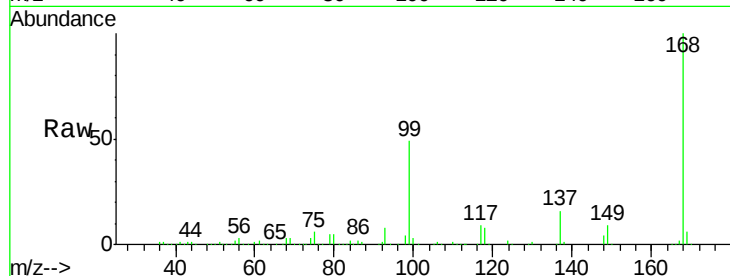
S22-0039

Tot Ion:168 Resp: 272622

Ion Ratio Lower Upper

168 100

99 49.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

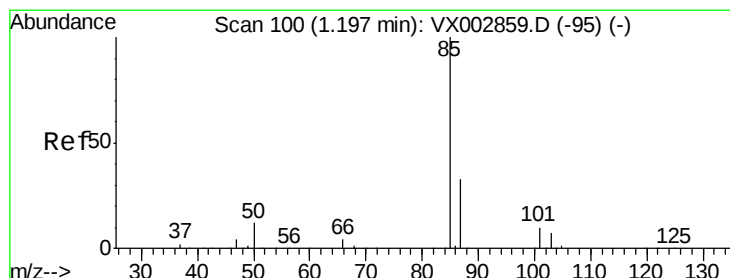
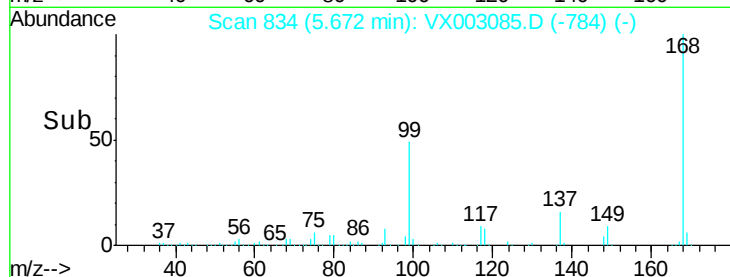
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003085.D

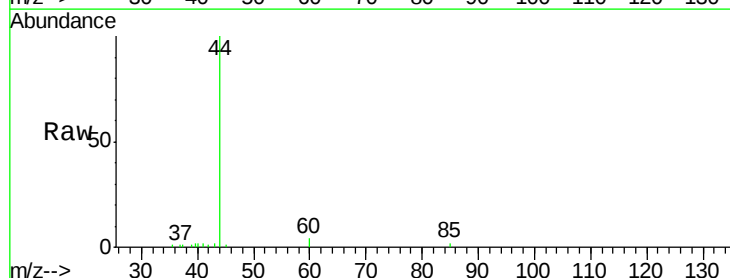
Acq: 30 Jun 2018 18:03

Tgt Ion: 85 Resp: 161

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

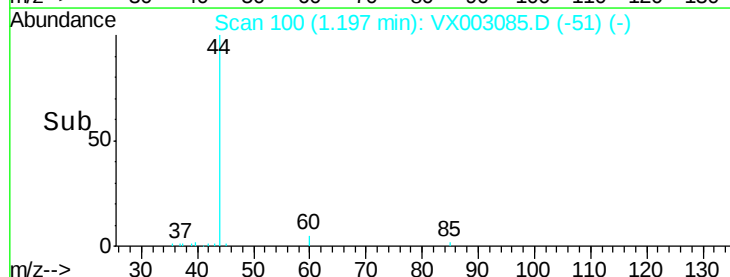
150

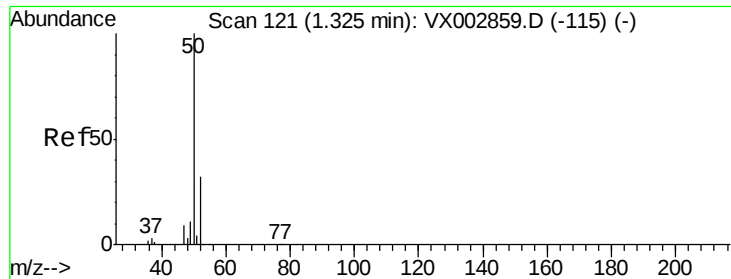
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

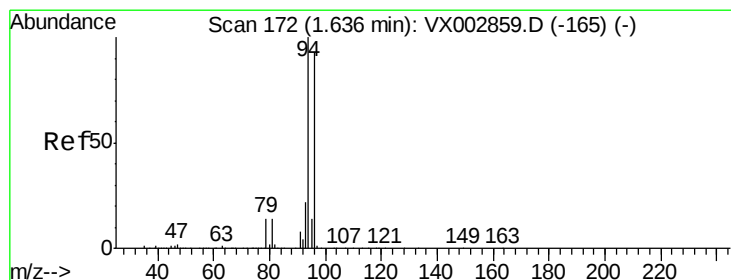
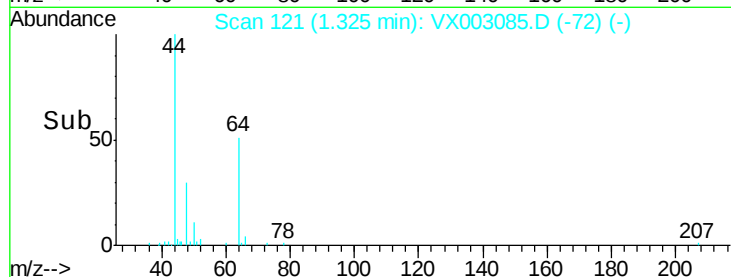
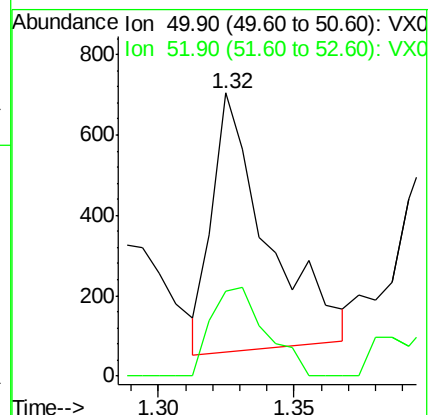
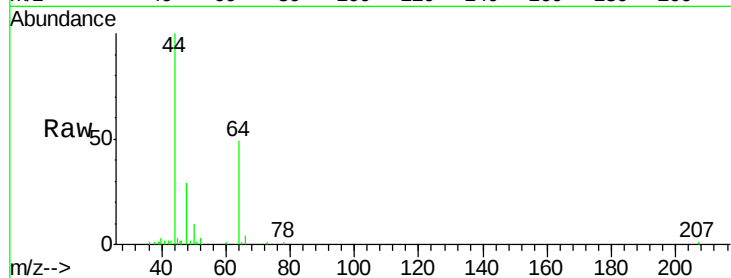
S22-0039

Tot Ion: 50 Resp: 914

Ion Ratio Lower Upper

50 100

52 37.6 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003085.D

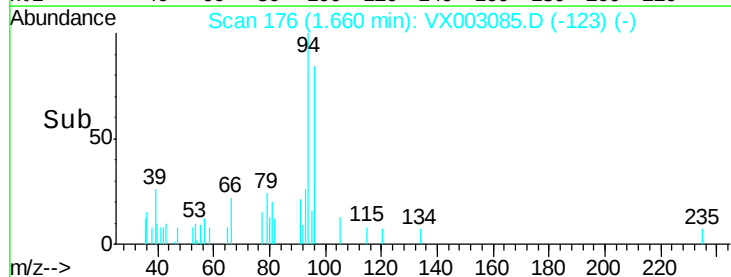
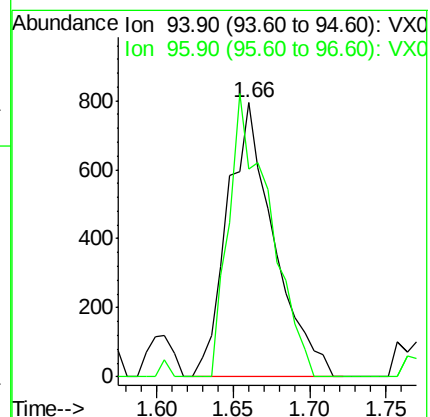
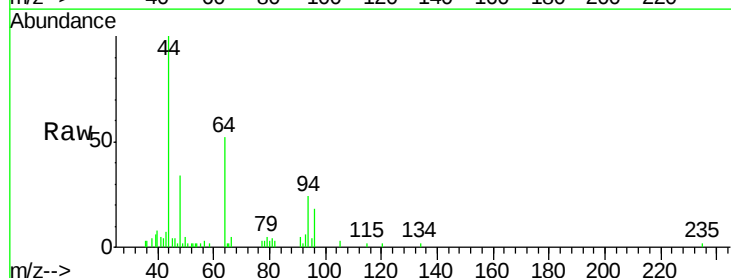
Acq: 30 Jun 2018 18:03

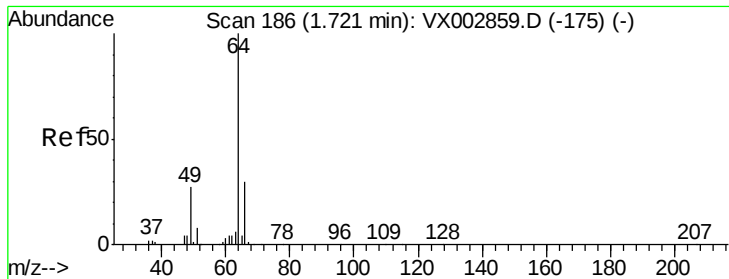
Tgt Ion: 94 Resp: 1684

Ion Ratio Lower Upper

94 100

96 75.7 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

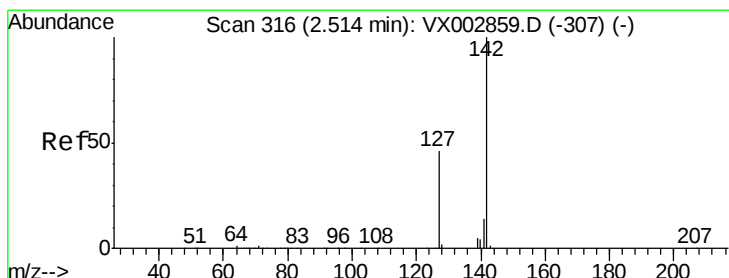
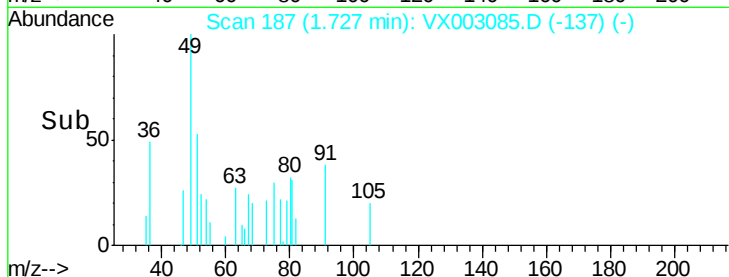
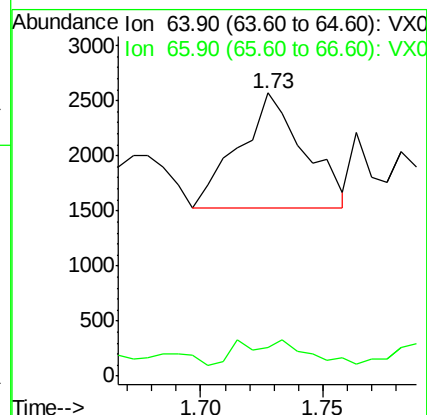
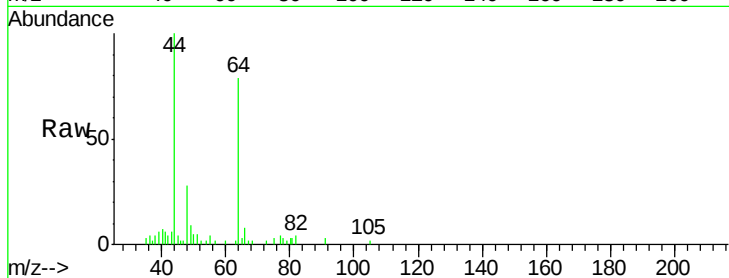
S22-0039

Tot Ion: 64 Resp: 1950

Ion Ratio Lower Upper

64 100

66 9.2 25.5 38.3#



#10

Methyl Iodide

Concen: 6.73 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

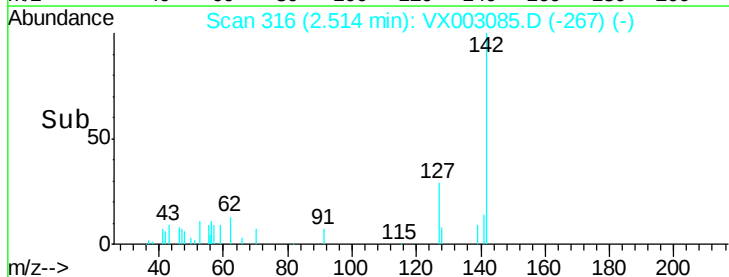
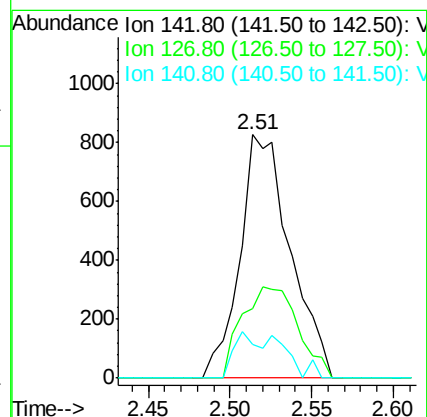
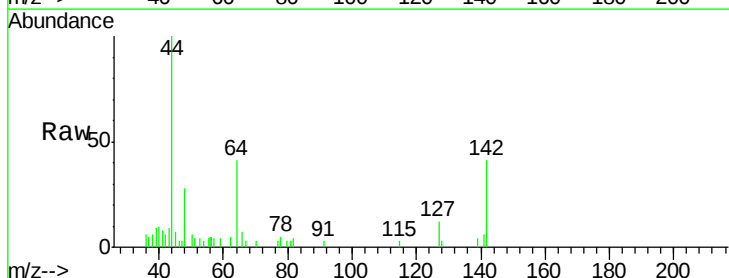
Tgt Ion:142 Resp: 1773

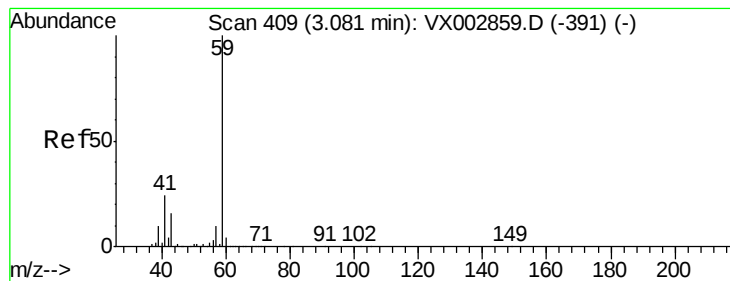
Ion Ratio Lower Upper

142 100

127 41.8 36.6 55.0

141 9.6 11.3 16.9#





#11

Tert butyl alcohol

Concen: 1.06 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

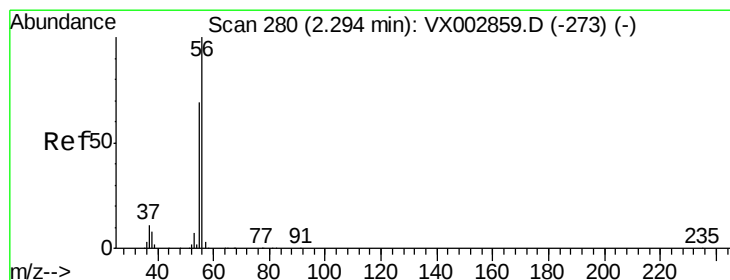
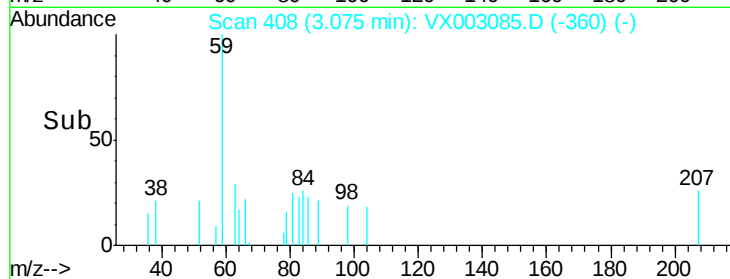
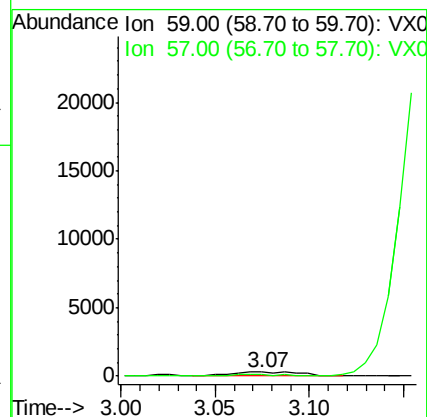
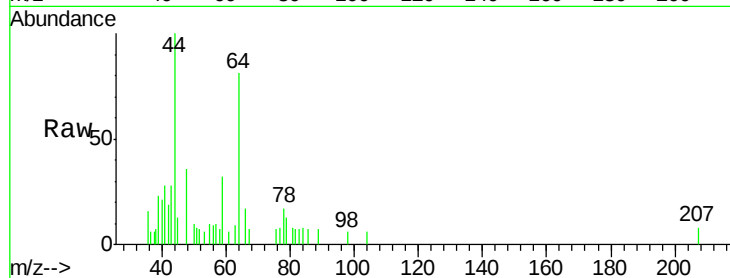
S22-0039

Tot Ion: 59 Resp: 798

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#13

Acrolein

Concen: 4.50 ug/l

RT: 2.32 min Scan# 284

Delta R.T. 0.02 min

Lab File: VX003085.D

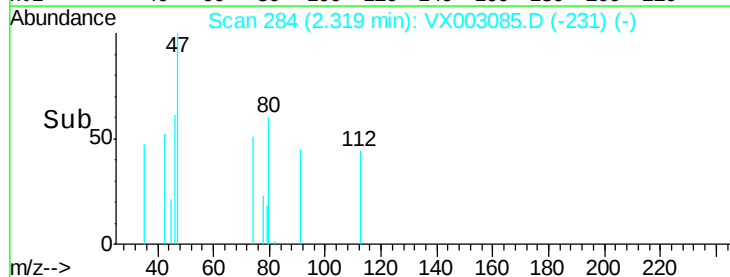
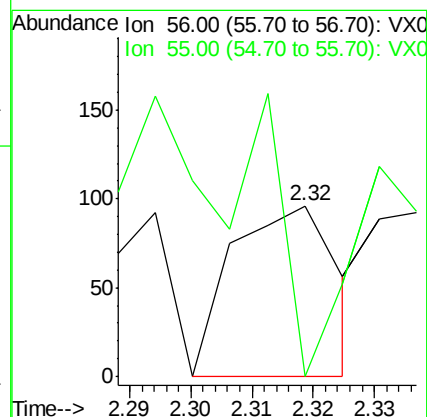
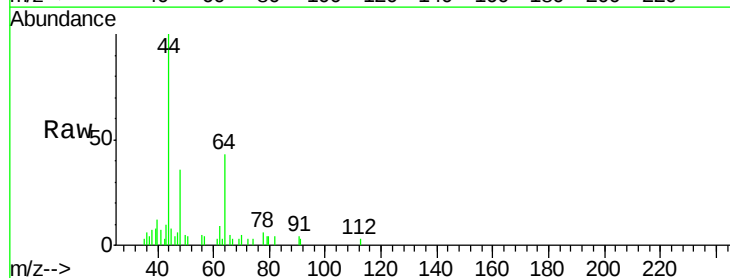
Acq: 30 Jun 2018 18:03

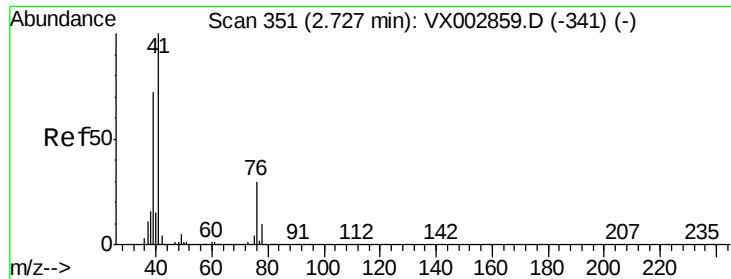
Tgt Ion: 56 Resp: 114

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#

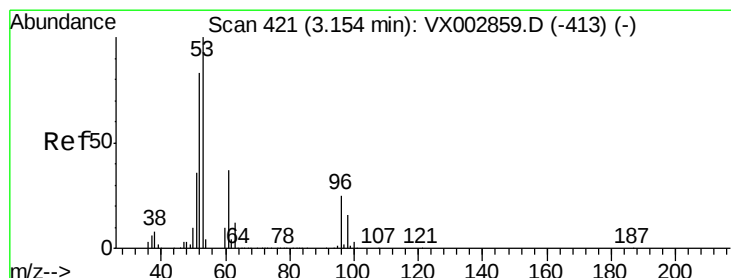
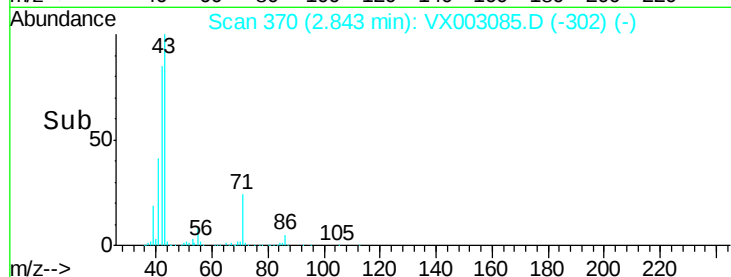
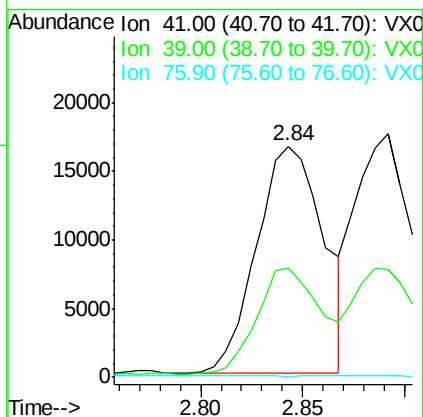
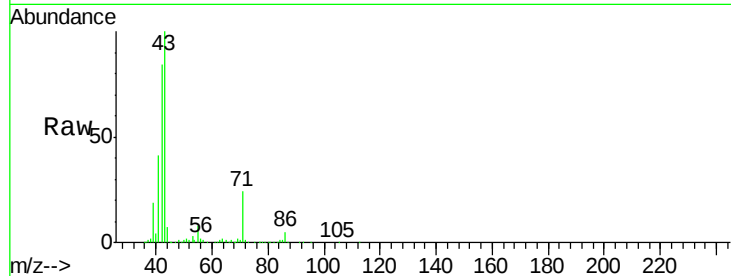




#14  
Allvl chloride  
Concen: 7.10 ug/l  
RT: 2.84 min Scan# 370  
Delta R.T. 0.12 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

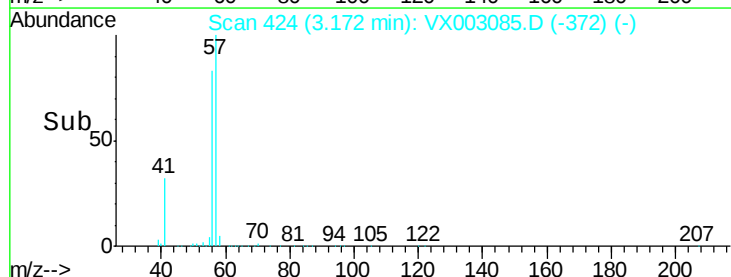
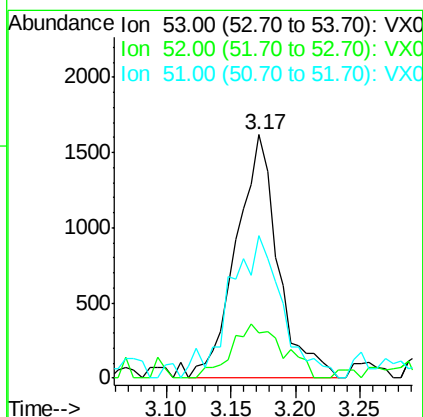
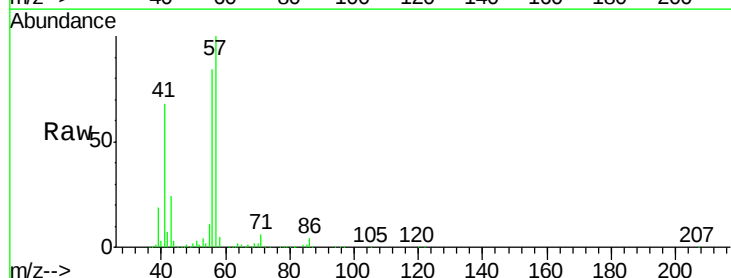
Instrument :  
MSVOA\_X  
ClientSampleId :  
S22-0039

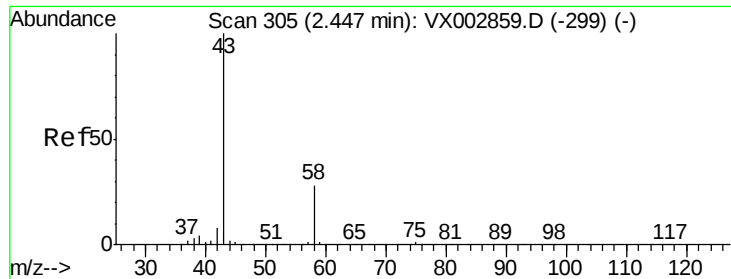
Tot Ion: 41 Resp: 37634  
Ion Ratio Lower Upper  
41 100  
39 46.3 56.8 85.2#  
76 0.0 23.8 35.8#



#15  
Acrylonitrile  
Concen: 2.27 ug/l  
RT: 3.17 min Scan# 424  
Delta R.T. 0.02 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

Tgt Ion: 53 Resp: 3643  
Ion Ratio Lower Upper  
53 100  
52 27.3 66.7 100.1#  
51 73.0 29.9 44.9#





#16

Acetone

Concen: 3.45 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

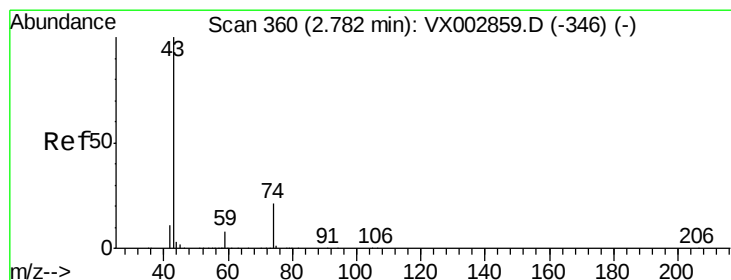
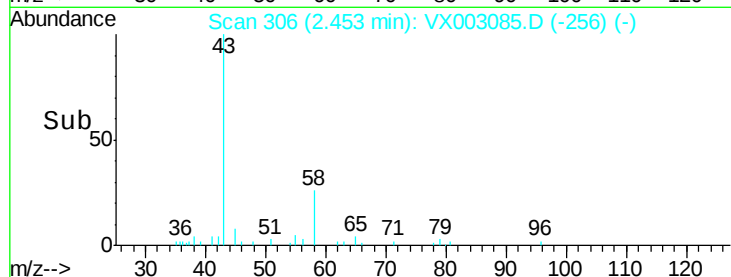
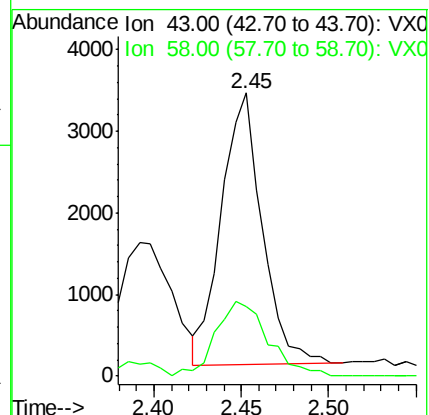
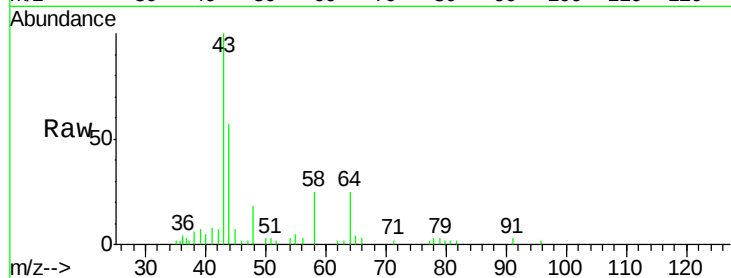
S22-0039

Tot Ion: 43 Resp: 5376

Ion Ratio Lower Upper

43 100

58 26.0 22.1 33.1



#18

Methyl Acetate

Concen: 20.81 ug/l

RT: 2.84 min Scan# 370

Delta R.T. 0.06 min

Lab File: VX003085.D

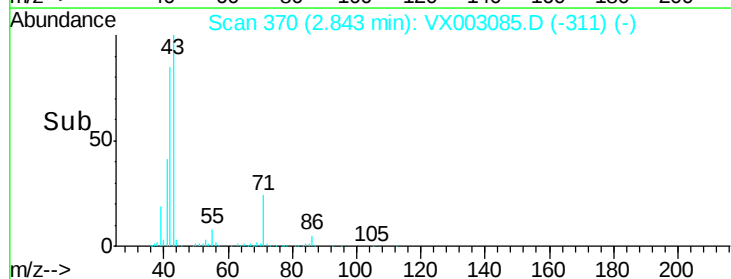
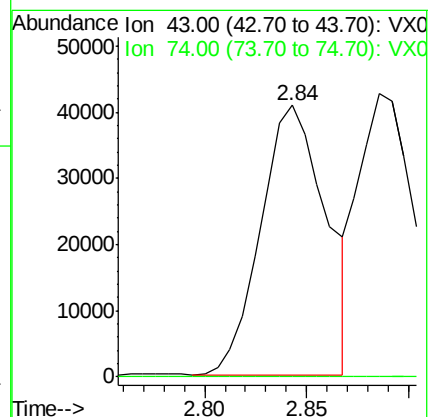
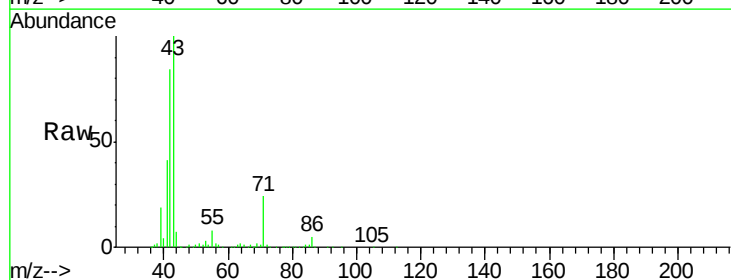
Acq: 30 Jun 2018 18:03

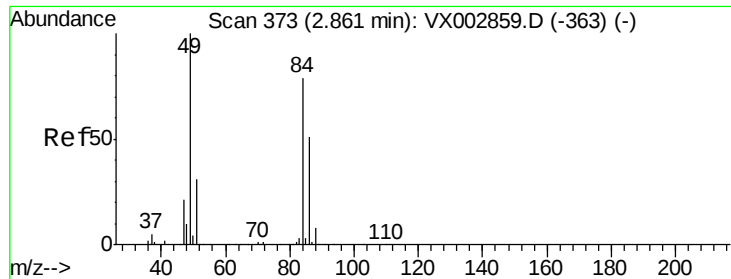
Tgt Ion: 43 Resp: 90804

Ion Ratio Lower Upper

43 100

74 0.1 16.7 25.1#

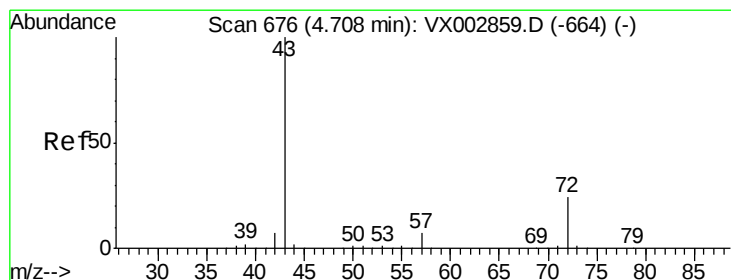
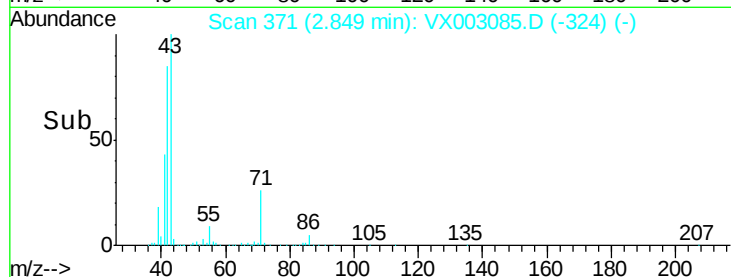
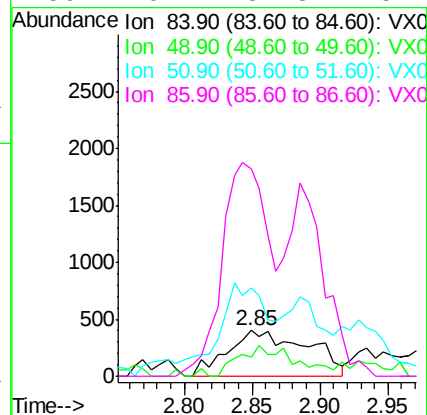
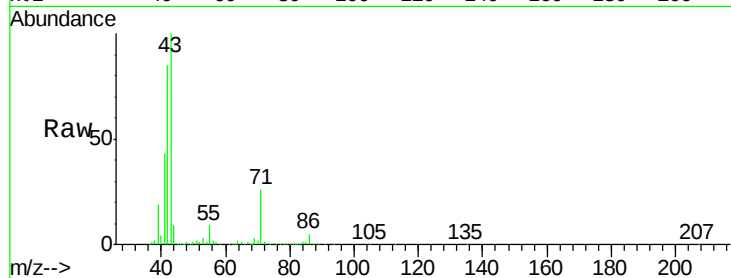




#20  
Methylene Chloride  
Concen: 0.54 ug/l  
RT: 2.85 min Scan# 371  
Delta R.T. -0.01 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

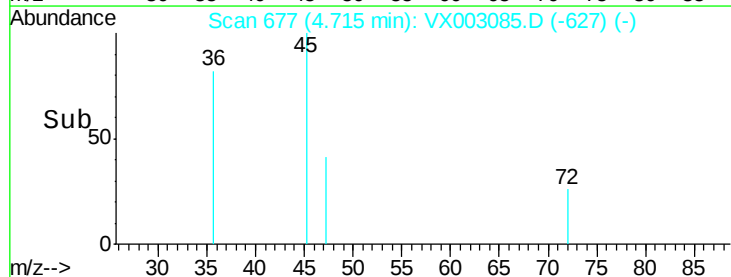
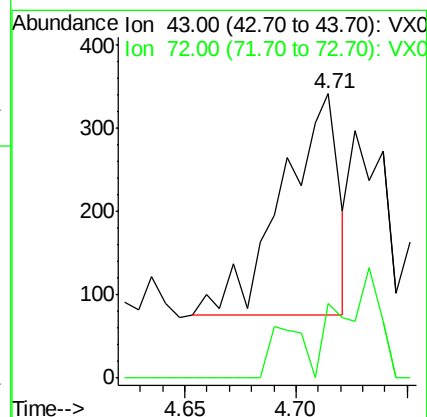
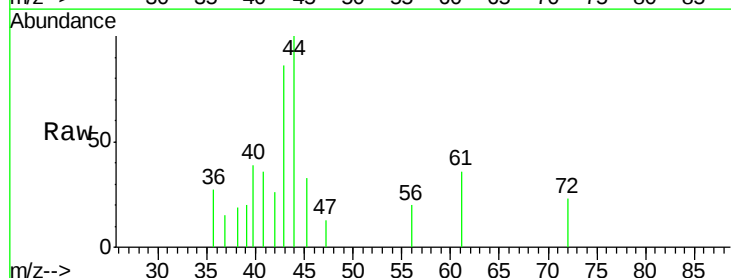
Instrument :  
MSVOA\_X  
ClientSampled :  
S22-0039

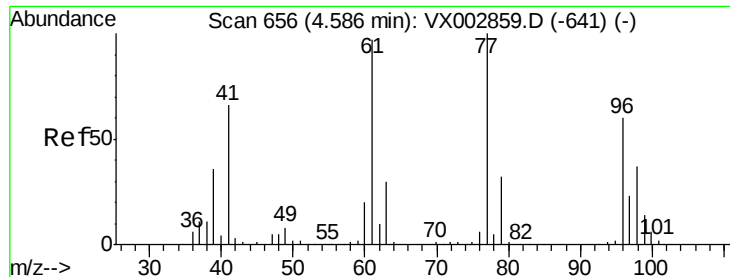
Tot Ion: 84 Resp: 1651  
Ion Ratio Lower Upper  
84 100  
49 41.8 107.8 161.6#  
51 150.5 32.8 49.2#  
86 426.1 52.5 78.7#



#25  
2-Butanone  
Concen: 0.20 ug/l  
RT: 4.71 min Scan# 677  
Delta R.T. 0.01 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

Tgt Ion: 43 Resp: 466  
Ion Ratio Lower Upper  
43 100  
72 33.5 18.5 27.7#





#26

2,2-Dichloropropane

Concen: 0.90 ug/l

RT: 4.39 min Scan# 624

Delta R.T. -0.20 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampled :

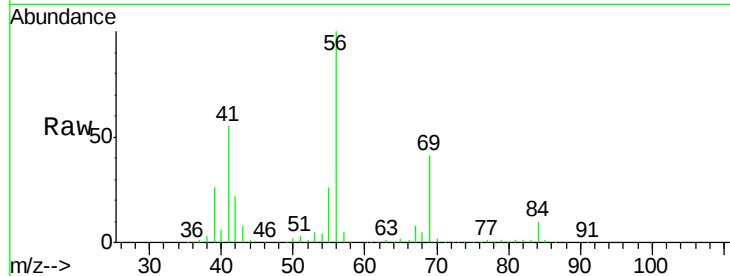
S22-0039

Tot Ion: 77 Resp: 4051

Ion Ratio Lower Upper

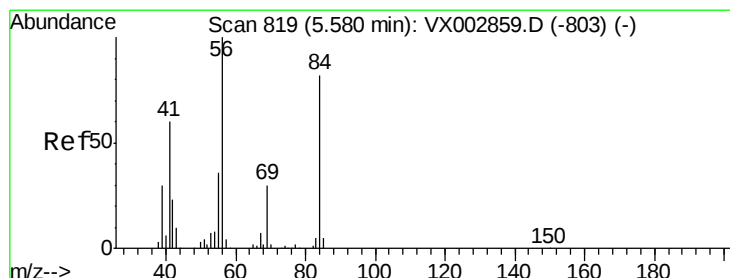
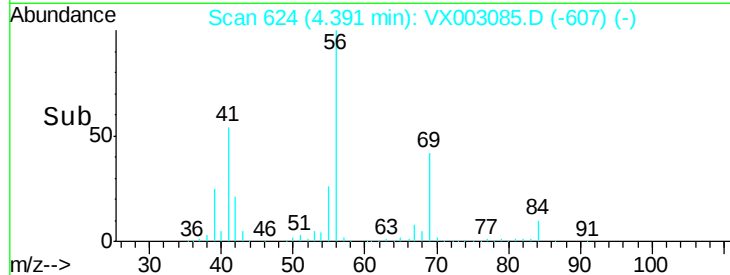
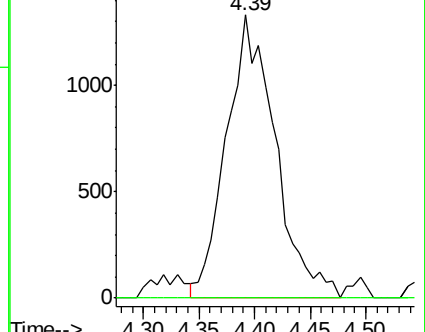
77 100

97 0.0 11.2 33.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#31

Cyclohexane

Concen: 90.74 ug/l

RT: 5.58 min Scan# 819

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

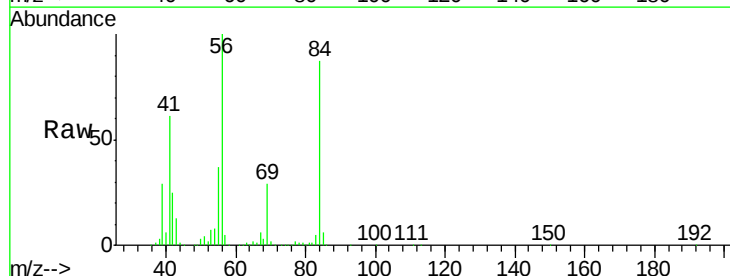
Tgt Ion: 56 Resp: 428794

Ion Ratio Lower Upper

56 100

69 29.2 23.7 35.5

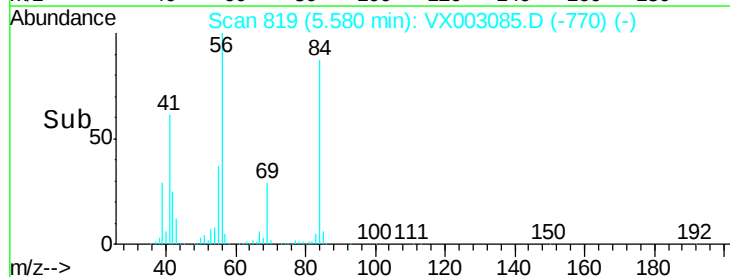
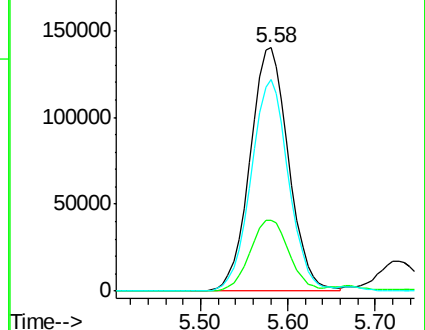
84 86.8 64.1 96.1

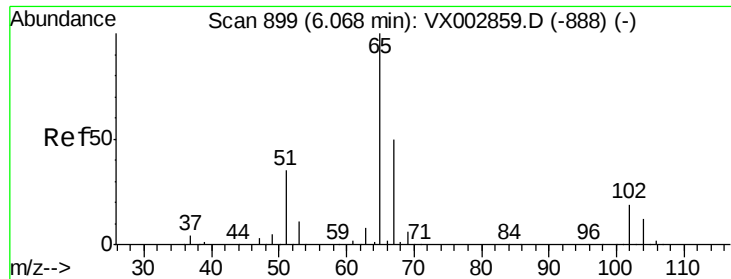


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

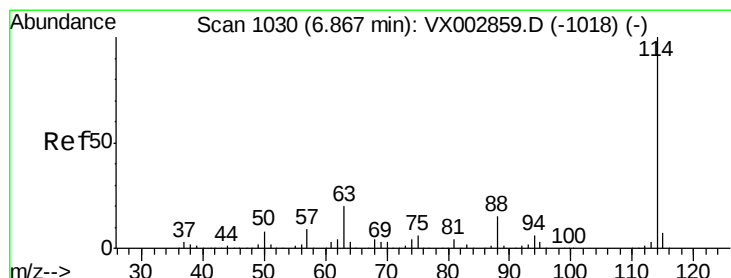
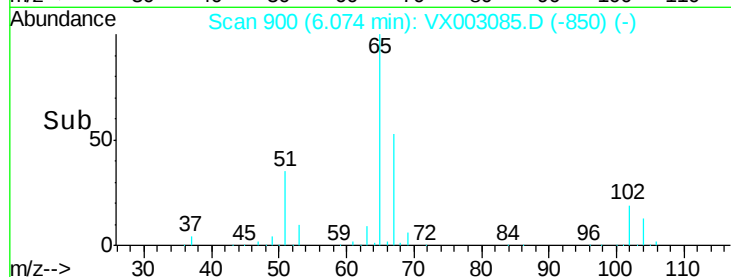
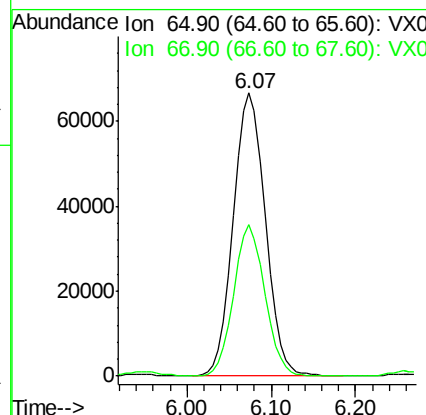
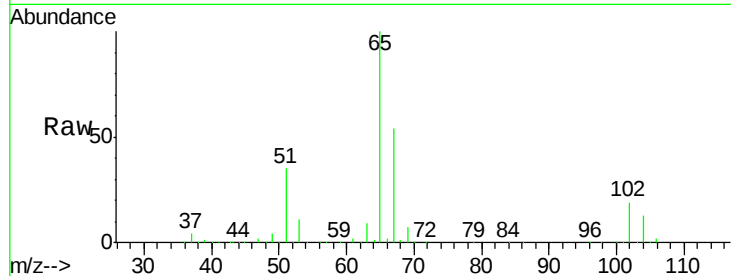




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.61 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.01 min  
 Lab File: VX003085.D  
 Acq: 30 Jun 2018 18:03

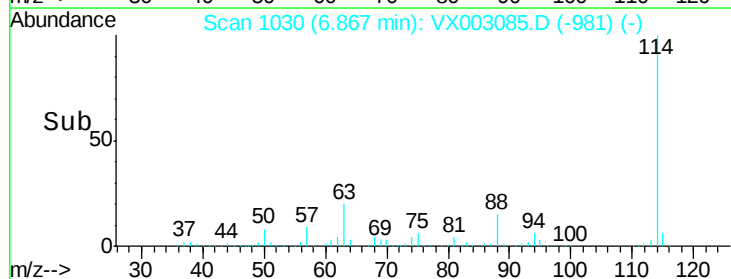
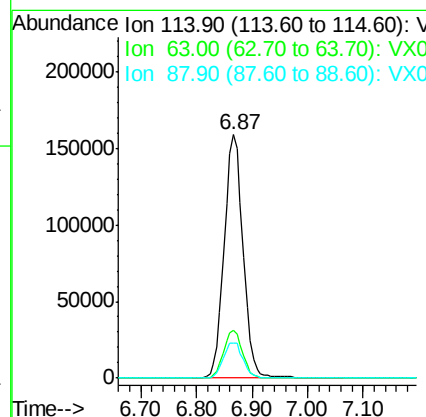
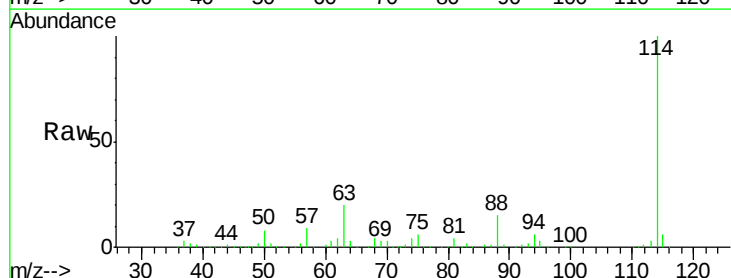
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S22-0039

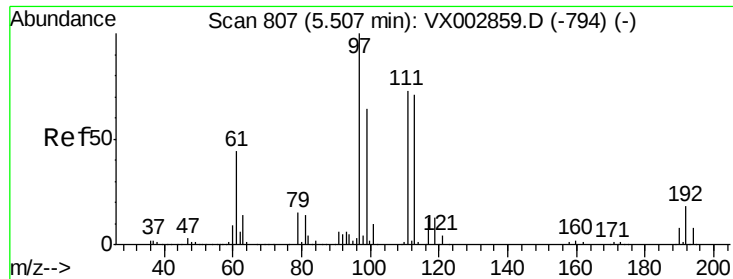
Tot Ion: 65 Resp: 171880  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX003085.D  
 Acq: 30 Jun 2018 18:03

Tgt Ion: 114 Resp: 374443  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 41.4  
 88 14.6 0.0 30.0

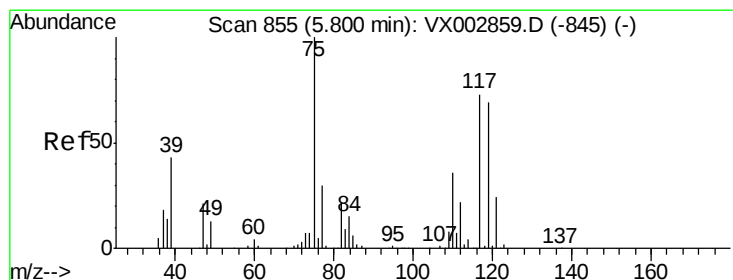
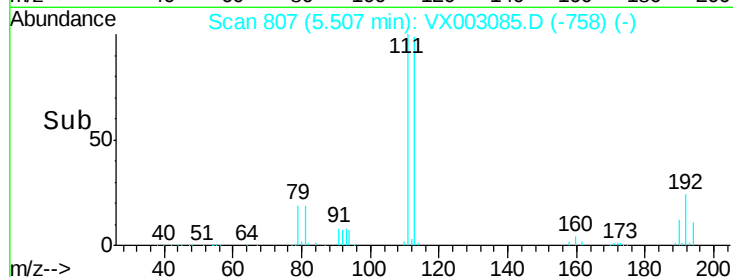
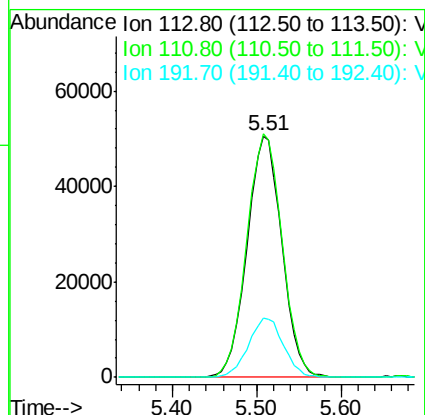
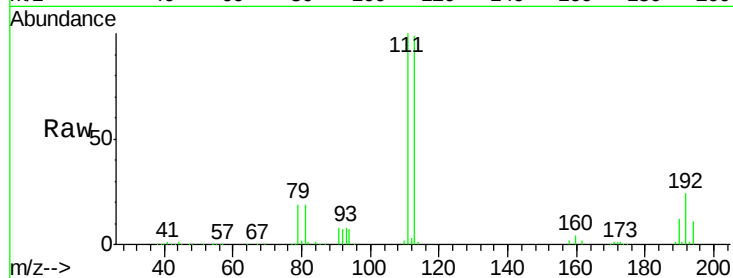




#35  
 Dibromofluoromethane  
 Concen: 47.64 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.00 min  
 Lab File: VX003085.D  
 Acq: 30 Jun 2018 18:03

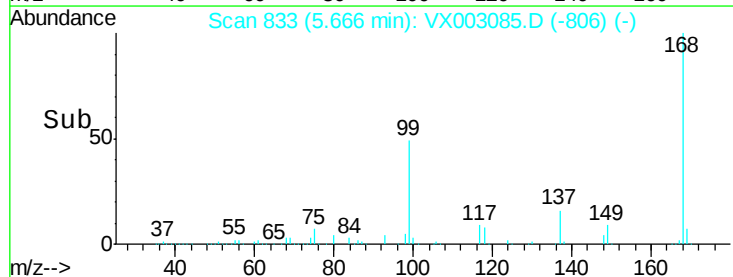
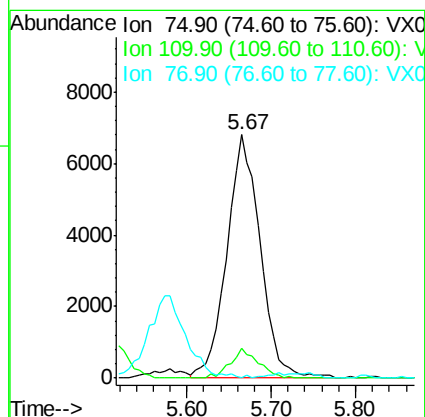
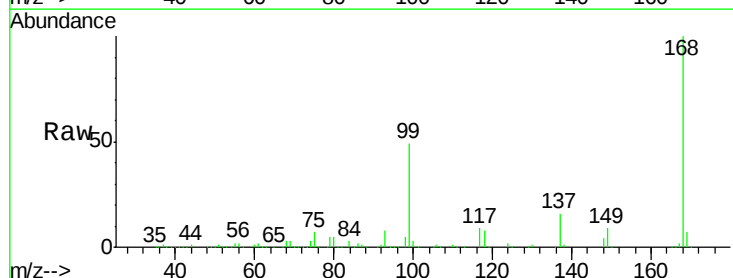
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S22-0039

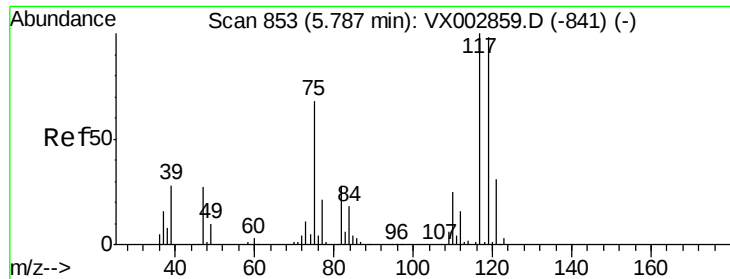
Tot Ion:113 Resp: 141264  
 Ion Ratio Lower Upper  
 113 100  
 111 102.8 81.4 122.0  
 192 24.8 19.1 28.7



#36  
 1,1-Dichloropropene  
 Concen: 4.46 ug/l  
 RT: 5.67 min Scan# 833  
 Delta R.T. -0.13 min  
 Lab File: VX003085.D  
 Acq: 30 Jun 2018 18:03

Tgt Ion: 75 Resp: 18317  
 Ion Ratio Lower Upper  
 75 100  
 110 10.4 18.1 54.4#  
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.42 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampled :

S22-0039

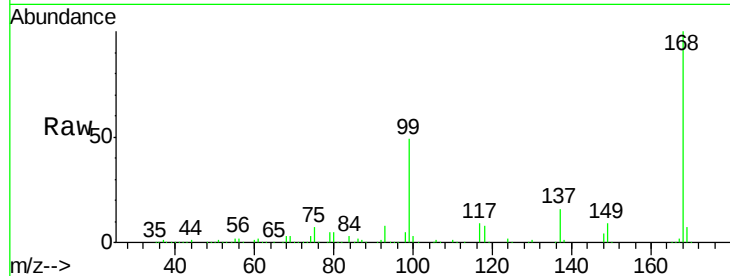
Tot Ion:117 Resp: 24431

Ion Ratio Lower Upper

117 100

119 4.7 77.4 116.0#

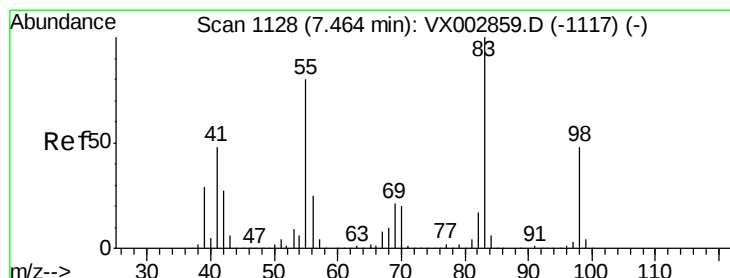
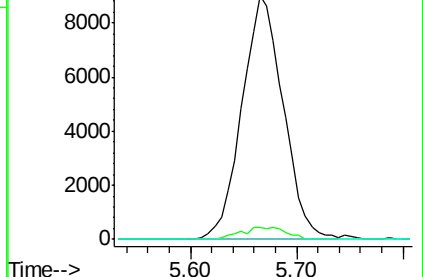
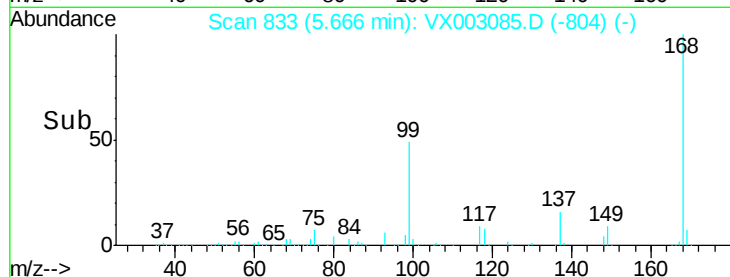
121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 127.10 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

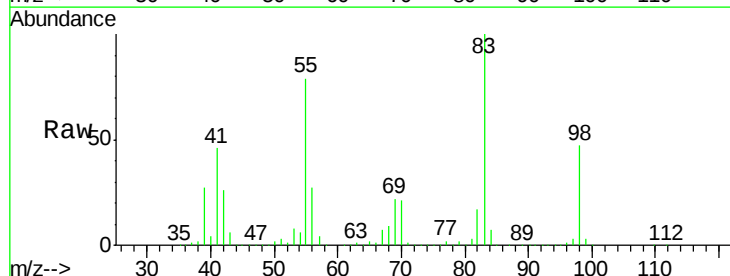
Tgt Ion: 83 Resp: 607938

Ion Ratio Lower Upper

83 100

55 79.3 65.4 98.0

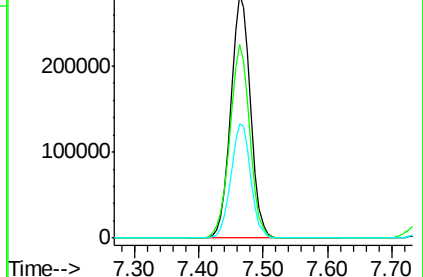
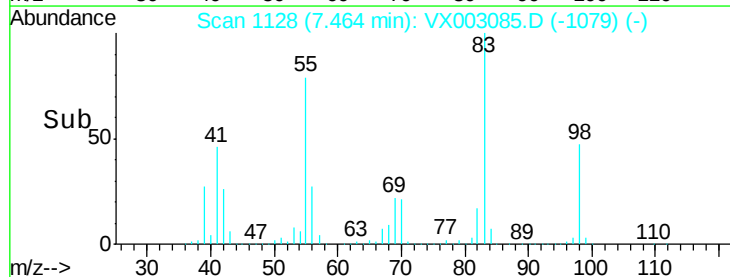
98 46.9 37.4 56.0

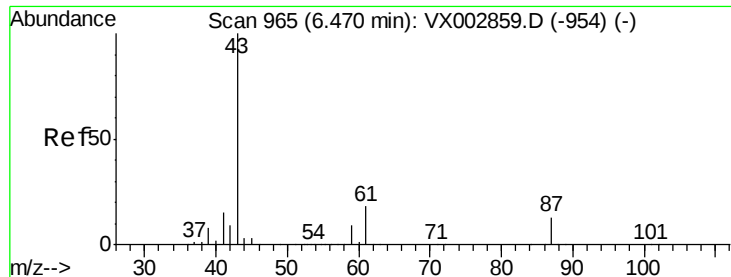


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#43

Isopropyl Acetate

Concen: 1.01 ug/l

RT: 6.45 min Scan# 962

Delta R.T. -0.02 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampled :

S22-0039

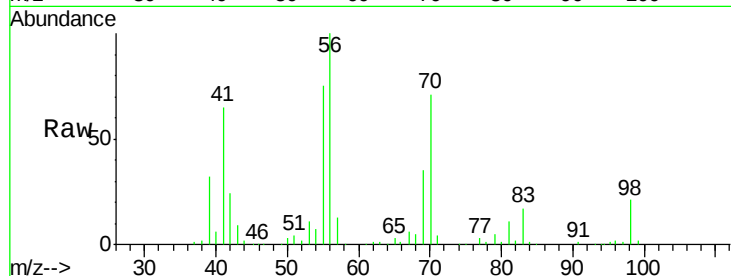
Tot Ion: 43 Resp: 7520

Ion Ratio Lower Upper

43 100

61 3.4 14.4 21.6#

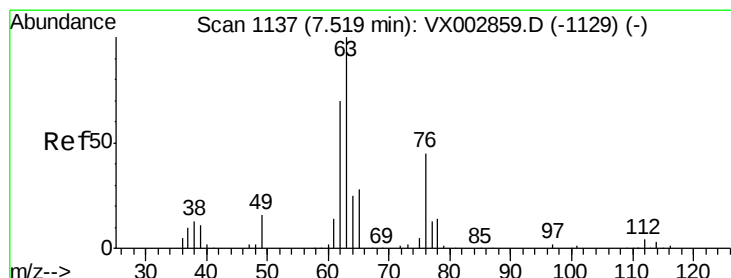
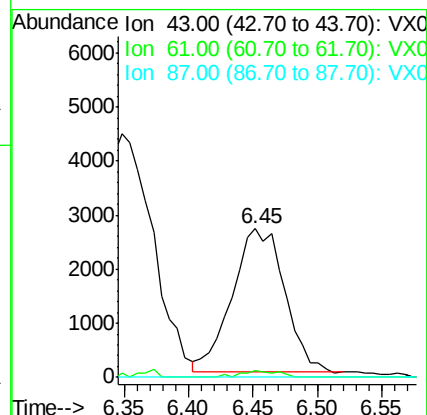
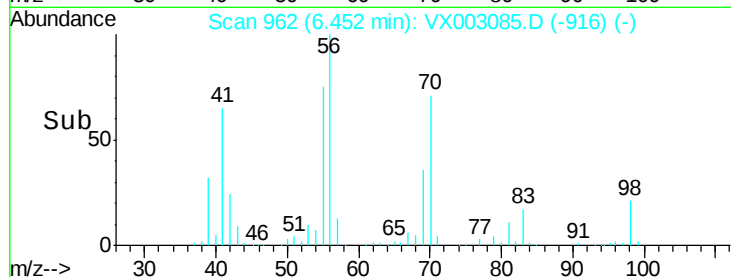
87 0.0 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#45

1,2-Dichloropropane

Concen: 2.12 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. -0.05 min

Lab File: VX003085.D

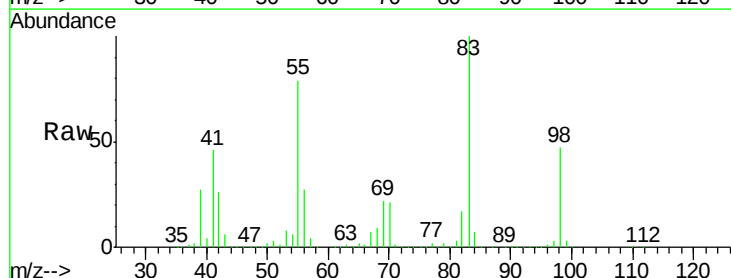
Acq: 30 Jun 2018 18:03

Tgt Ion: 63 Resp: 6718

Ion Ratio Lower Upper

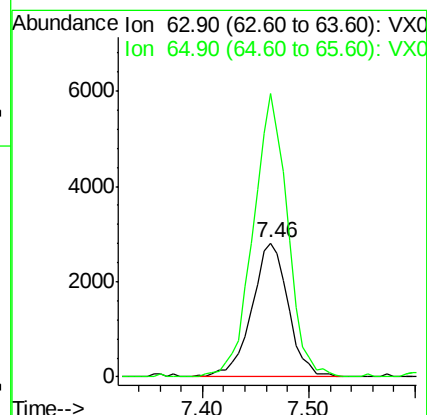
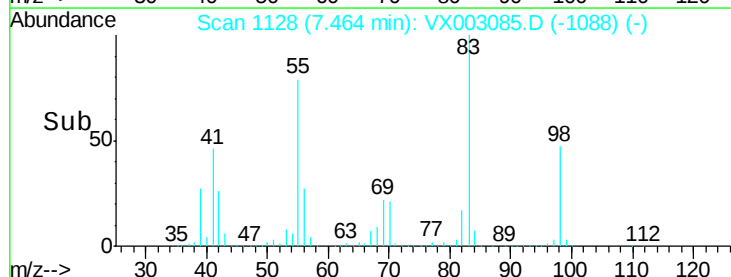
63 100

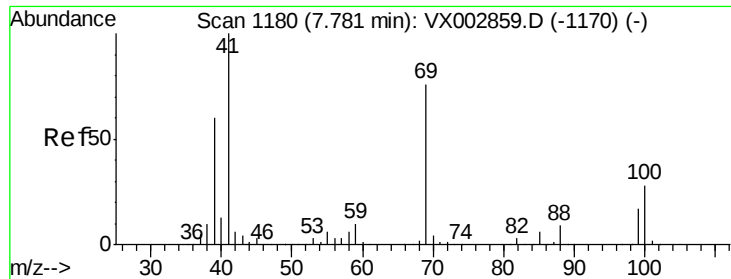
65 211.8 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

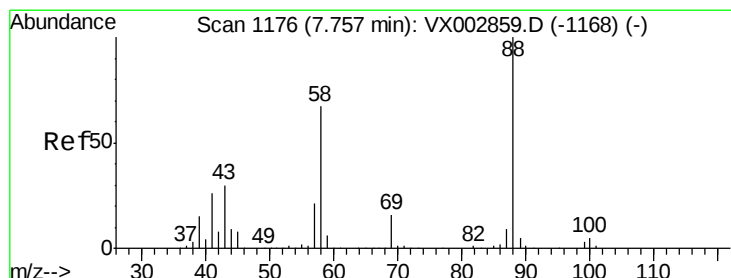
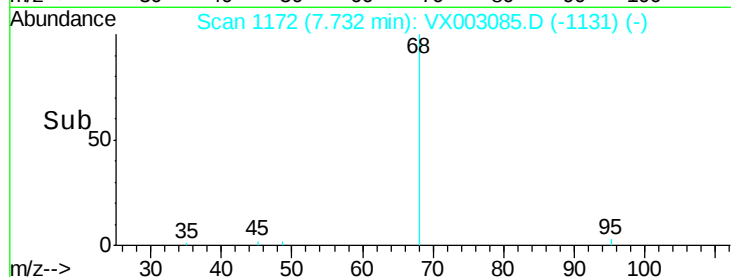
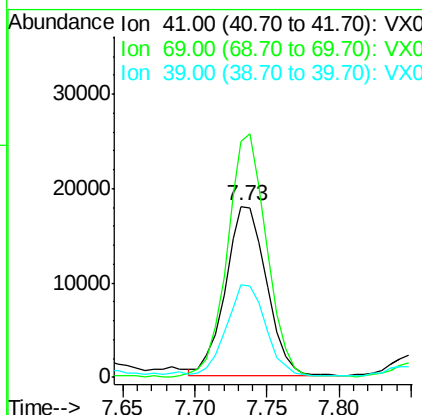
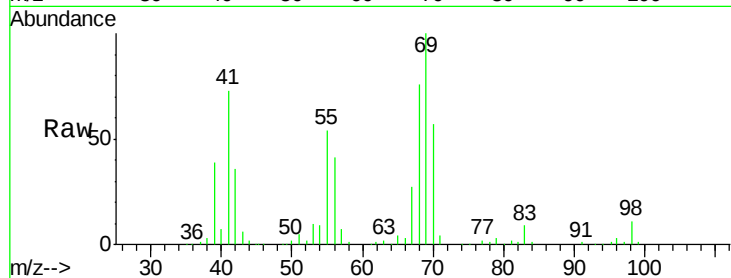




#48  
Methyl methacrylate  
Concen: 9.39 ug/l  
RT: 7.73 min Scan# 1172  
Delta R.T. -0.05 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

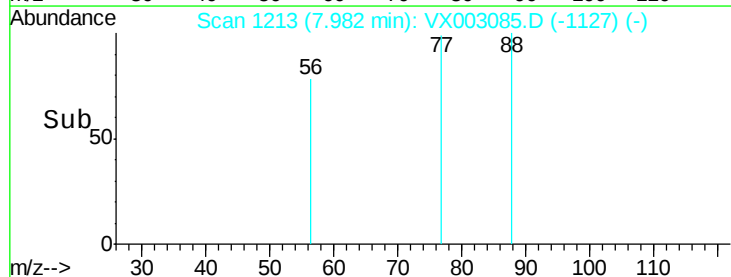
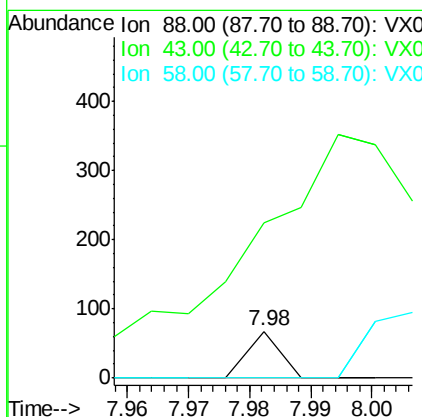
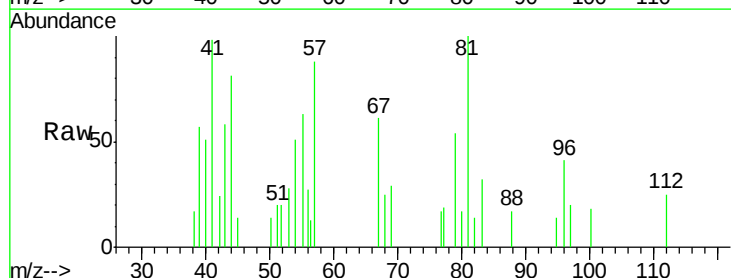
Instrument :  
MSVOA\_X  
ClientSampleId :  
S22-0039

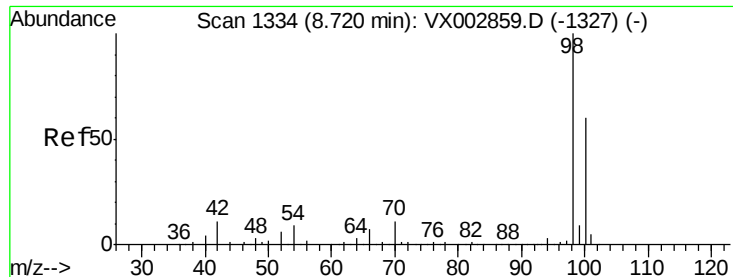
Tot Ion: 41 Resp: 35879  
Ion Ratio Lower Upper  
41 100  
69 137.6 59.1 88.7#  
39 52.8 48.9 73.3



#49  
1,4-Dioxane  
Concen: 0.34 ug/l  
RT: 7.98 min Scan# 1213  
Delta R.T. 0.23 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

Tgt Ion: 88 Resp: 25  
Ion Ratio Lower Upper  
88 100  
43 0.0 29.8 44.6#  
58 0.0 57.1 85.7#

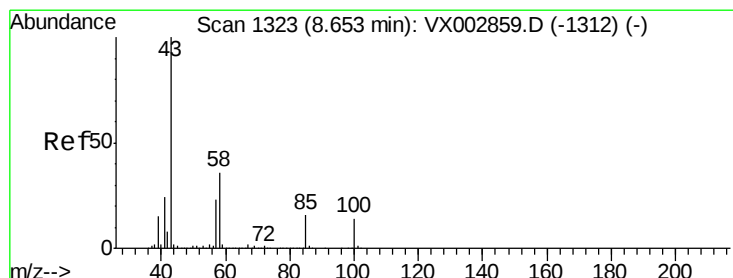
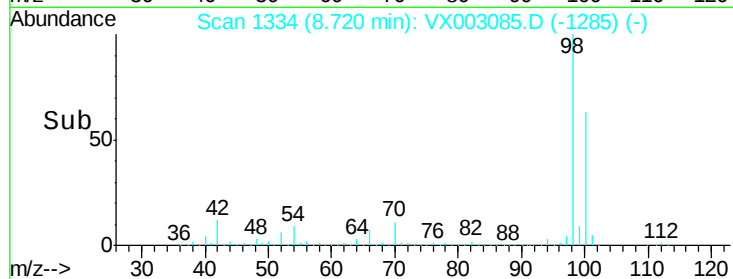
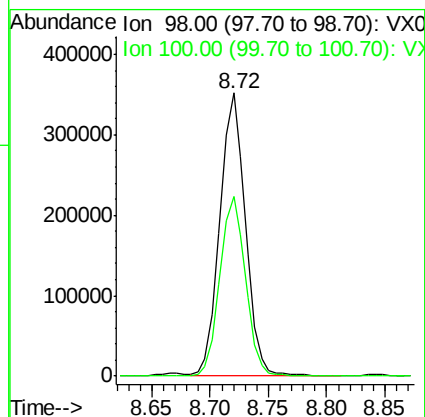
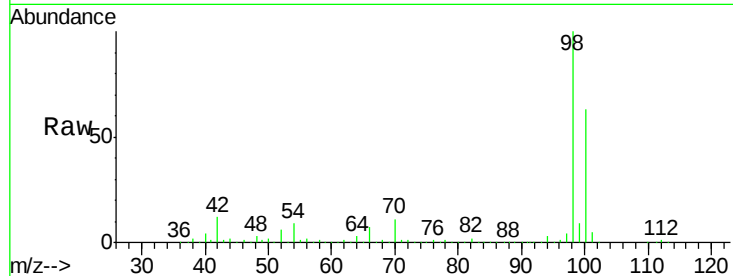




#50  
Toluene-d8  
Concen: 48.99 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

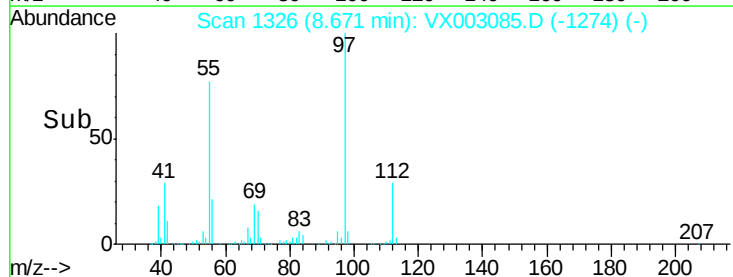
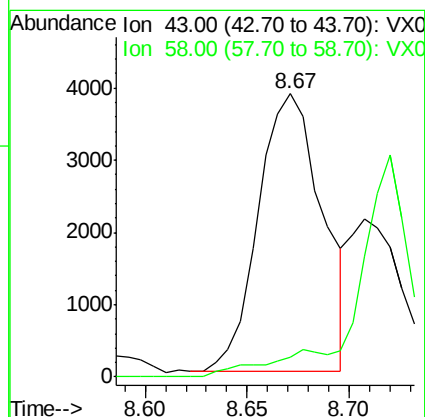
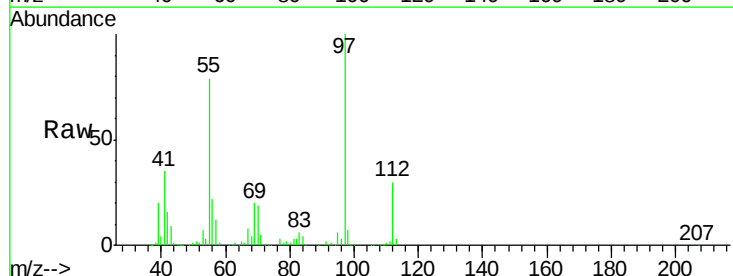
Instrument :  
MSVOA\_X  
ClientSampleId :  
S22-0039

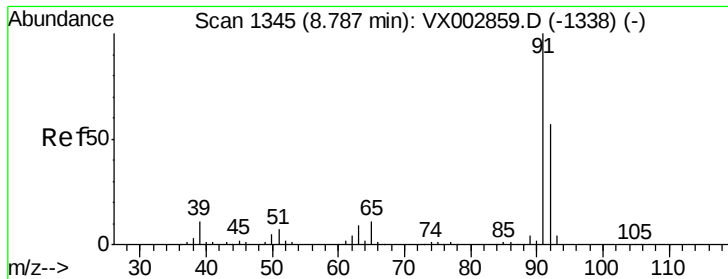
Tot Ion: 98 Resp: 530434  
Ion Ratio Lower Upper  
98 100  
100 64.4 50.9 76.3



#51  
4-Methyl-2-Pentanone  
Concen: 1.81 ug/l  
RT: 8.67 min Scan# 1326  
Delta R.T. 0.02 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

Tgt Ion: 43 Resp: 8382  
Ion Ratio Lower Upper  
43 100  
58 9.6 28.6 42.8#





#52

Toluene

Concen: 0.31 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampled :

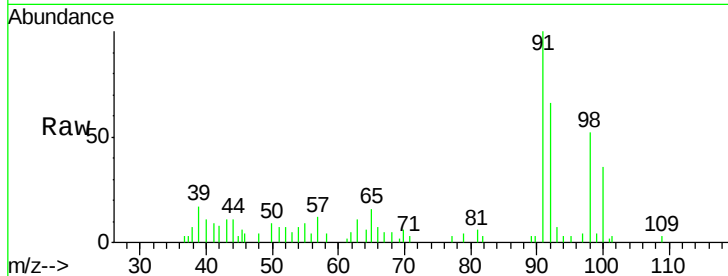
S22-0039

Tot Ion: 92 Resp: 2348

Ion Ratio Lower Upper

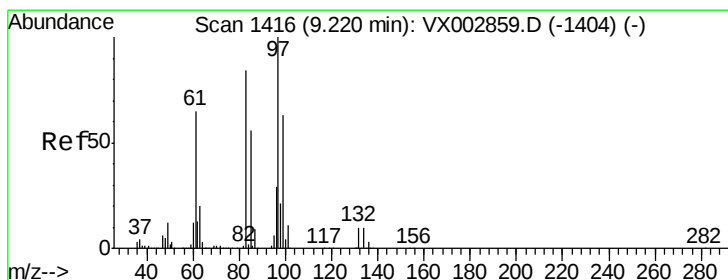
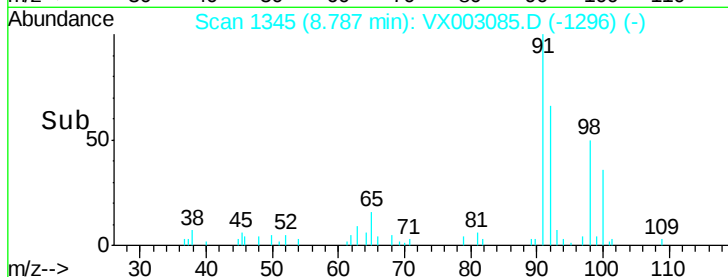
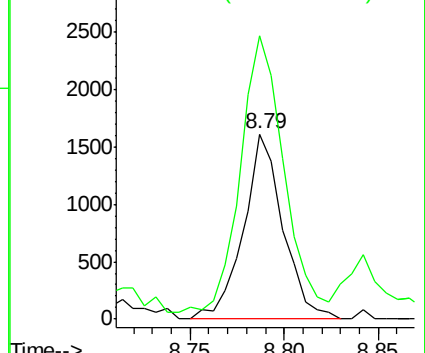
92 100

91 163.0 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#55

1,1,2-Trichloroethane

Concen: 11.48 ug/l

RT: 9.16 min Scan# 1407

Delta R.T. -0.05 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Tgt Ion: 97 Resp: 36058

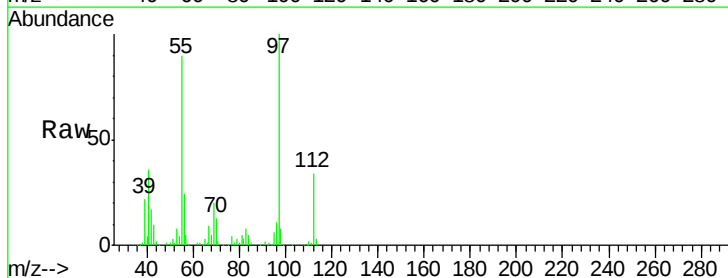
Ion Ratio Lower Upper

97 100

83 7.6 70.2 105.2#

85 0.6 44.9 67.3#

99 0.3 49.8 74.8#

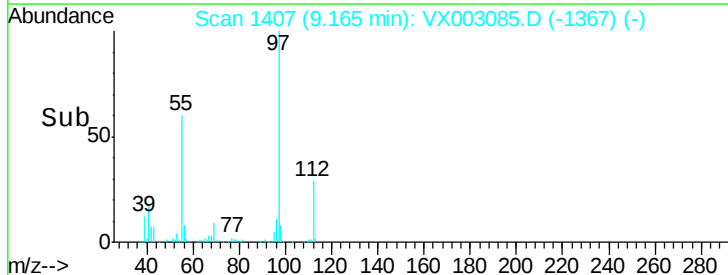
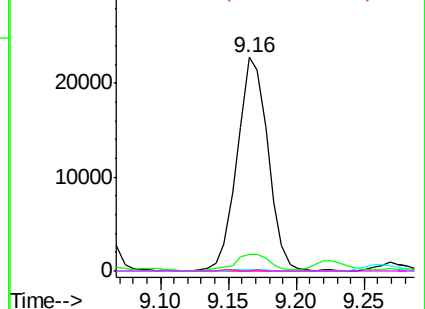


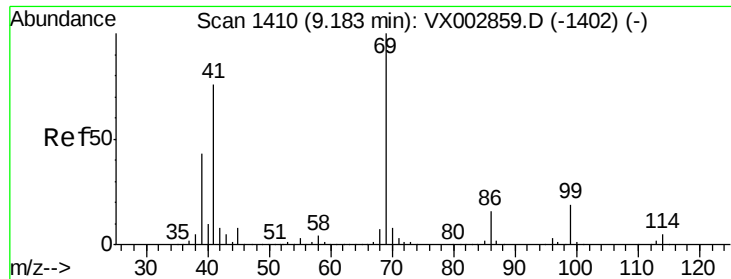
Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

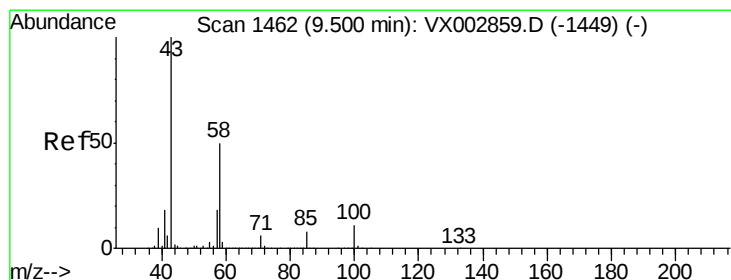
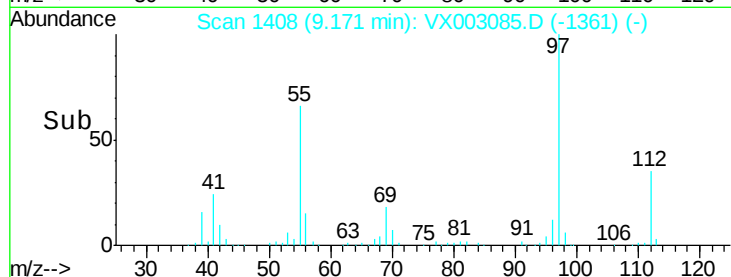
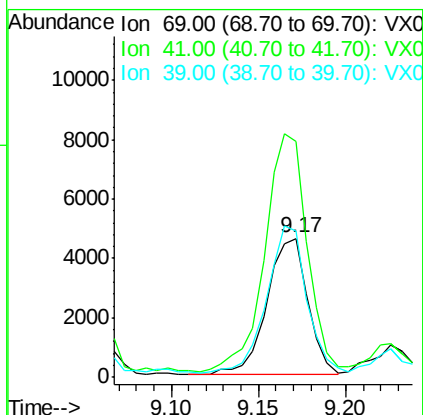
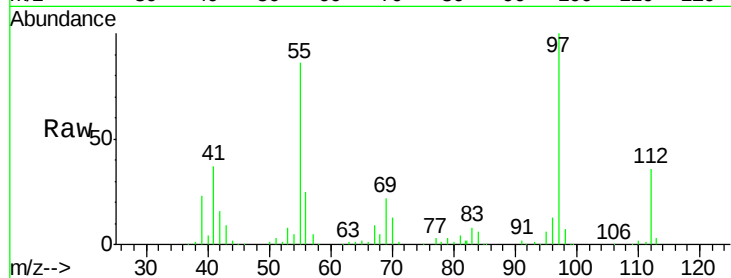




#56  
Ethyl methacrylate  
Concen: 1.62 ug/l  
RT: 9.17 min Scan# 1408  
Delta R.T. -0.01 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

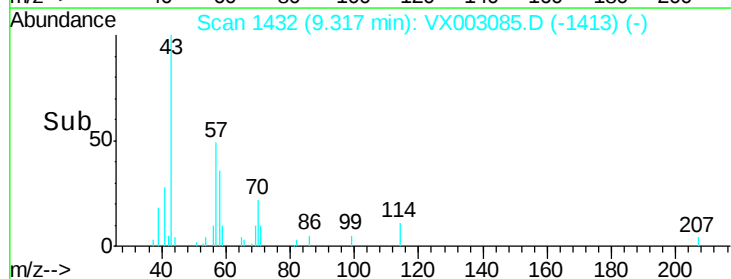
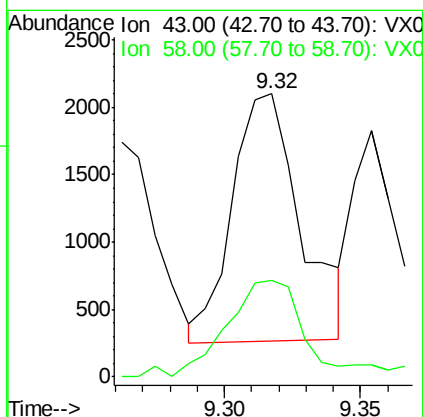
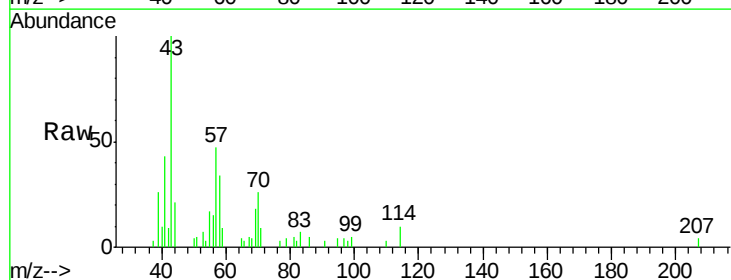
Instrument :  
MSVOA\_X  
ClientSampled :  
S22-0039

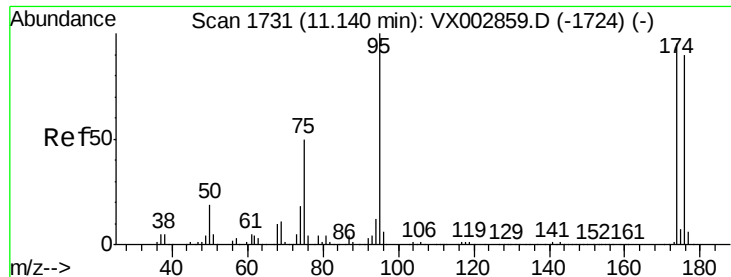
Tot Ion: 69 Resp: 7427  
Ion Ratio Lower Upper  
69 100  
41 181.4 60.3 90.5#  
39 106.5 35.8 53.8#



#59  
2-Hexanone  
Concen: 0.91 ug/l  
RT: 9.32 min Scan# 1432  
Delta R.T. -0.18 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

Tgt Ion: 43 Resp: 3203  
Ion Ratio Lower Upper  
43 100  
58 46.6 24.6 73.6





#62

4-Bromofluorobenzene

Concen: 47.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

S22-0039

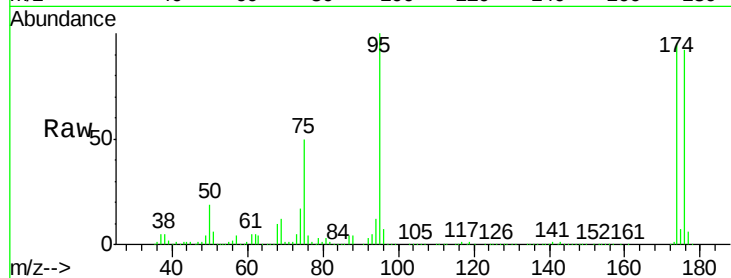
Tot Ion: 95 Resp: 197293

Ion Ratio Lower Upper

95 100

174 97.6 0.0 187.4

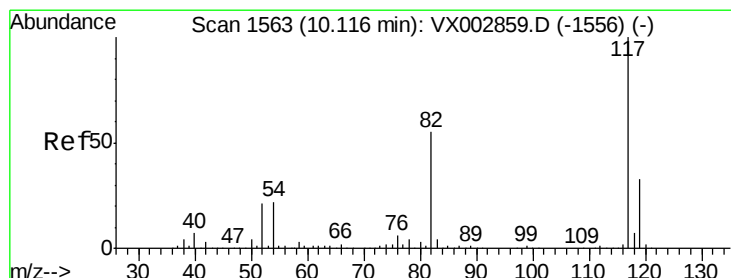
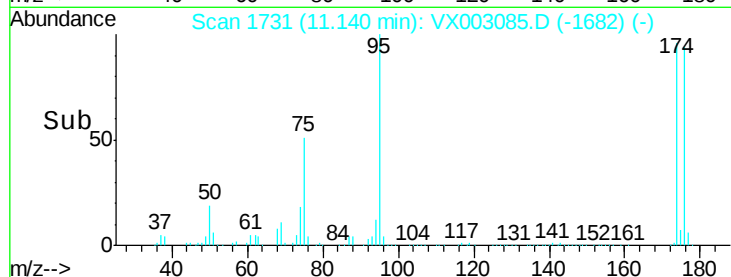
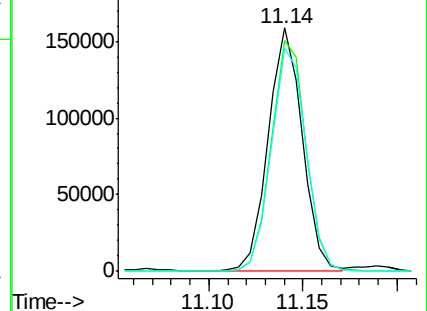
176 94.8 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

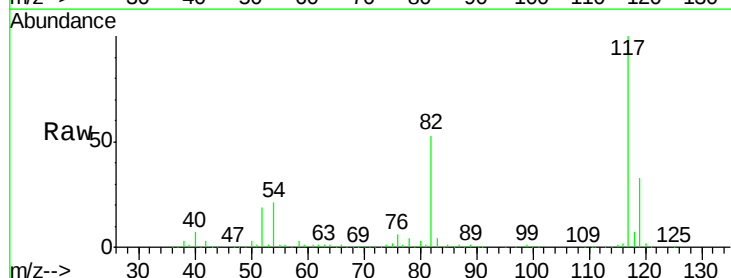
Tgt Ion: 117 Resp: 354390

Ion Ratio Lower Upper

117 100

82 52.9 45.0 67.4

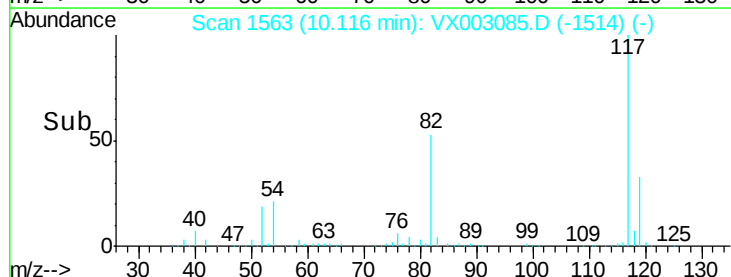
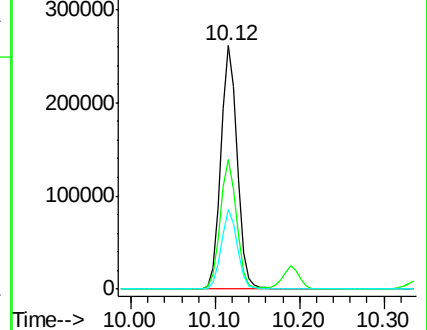
119 32.5 25.8 38.6

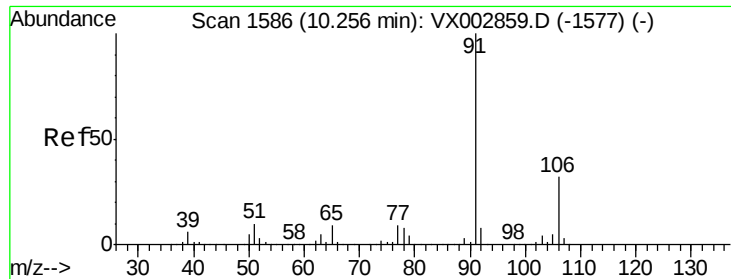


Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)

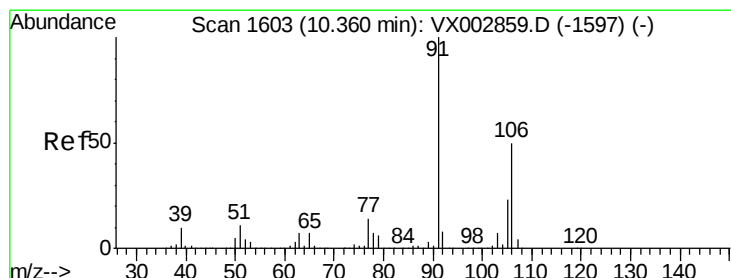
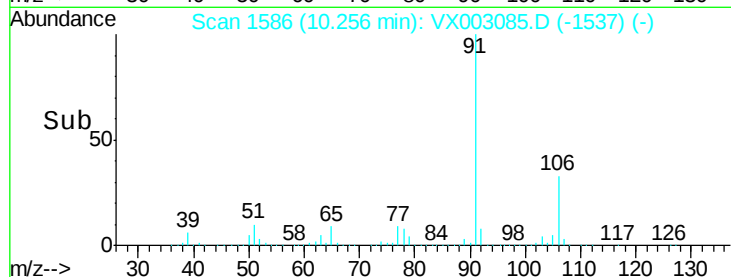
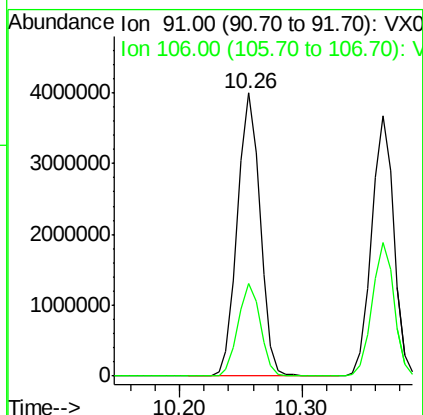
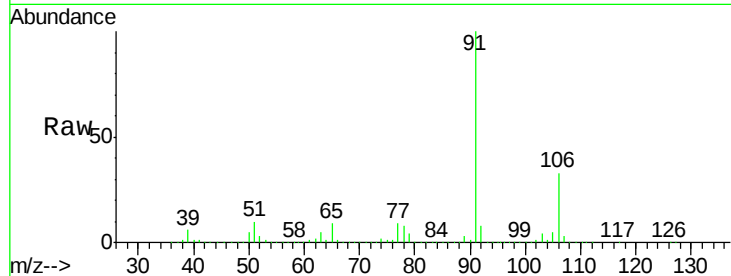




#67  
Ethyl Benzene  
Concen: 343.67 ug/l  
RT: 10.26 min Scan# 1586  
Delta R.T. 0.00 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

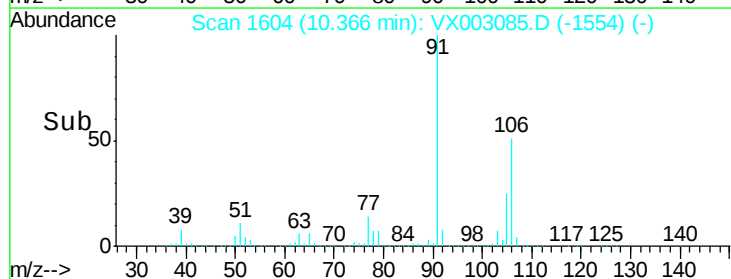
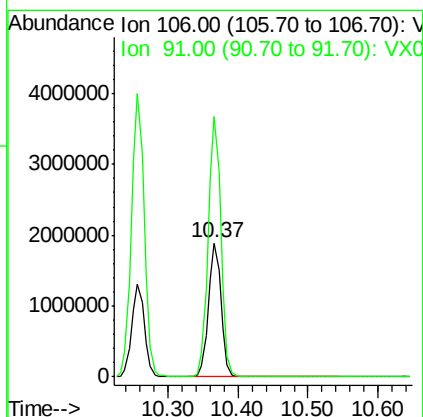
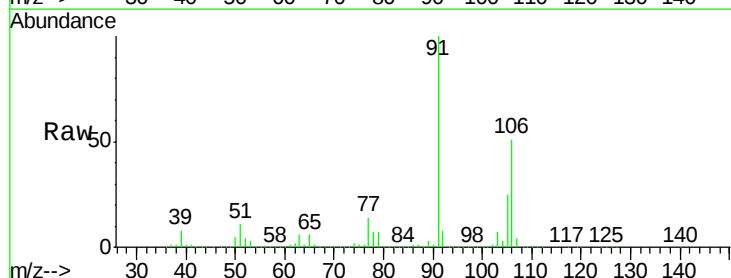
Instrument :  
MSVOA\_X  
ClientSampleId :  
S22-0039

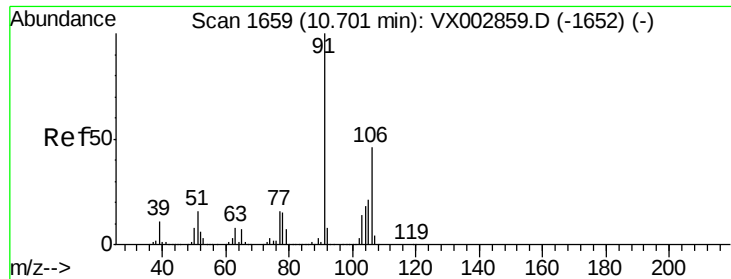
Tot Ion: 91 Resp: 5110247  
Ion Ratio Lower Upper  
91 100  
106 32.9 25.5 38.3



#68  
m/p-Xylenes  
Concen: 410.35 ug/l  
RT: 10.37 min Scan# 1604  
Delta R.T. 0.01 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

Tgt Ion: 106 Resp: 2351667  
Ion Ratio Lower Upper  
106 100  
91 197.1 163.4 245.2

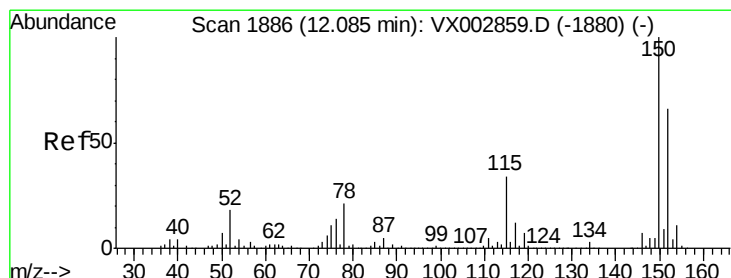
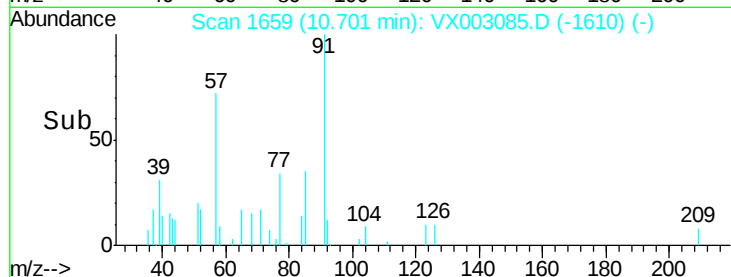
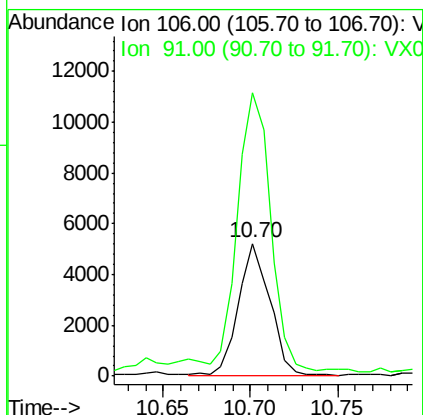
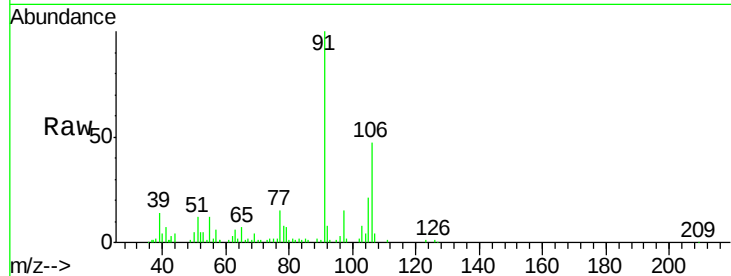




#69  
o-Xylene  
Concen: 1.20 ug/l  
RT: 10.70 min Scan# 1659  
Delta R.T. 0.00 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

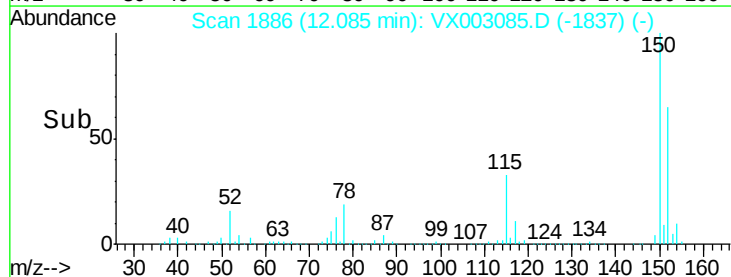
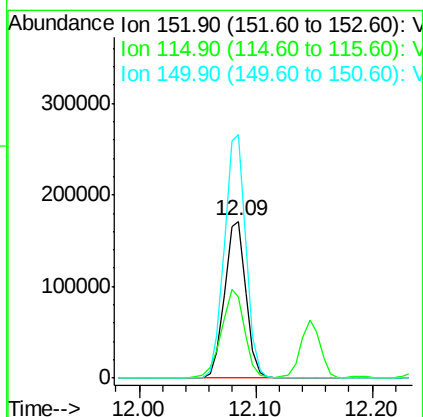
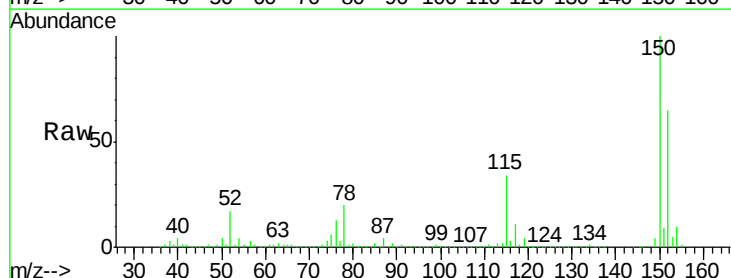
Instrument :  
MSVOA\_X  
ClientSampled :  
S22-0039

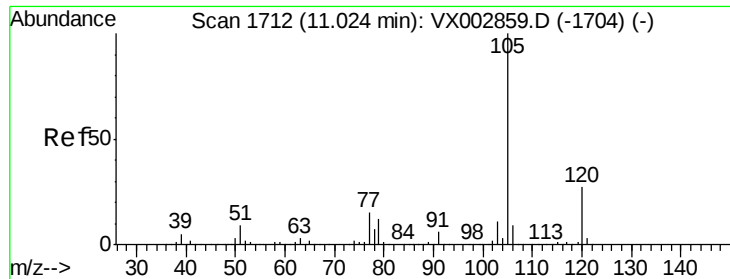
Tot Ion:106 Resp: 6674  
Ion Ratio Lower Upper  
106 100  
91 215.1 108.2 324.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX003085.D  
Acq: 30 Jun 2018 18:03

Tgt Ion:152 Resp: 216567  
Ion Ratio Lower Upper  
152 100  
115 61.1 40.1 120.2  
150 156.3 0.0 347.2





#73

Isopropylbenzene

Concen: 74.56 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

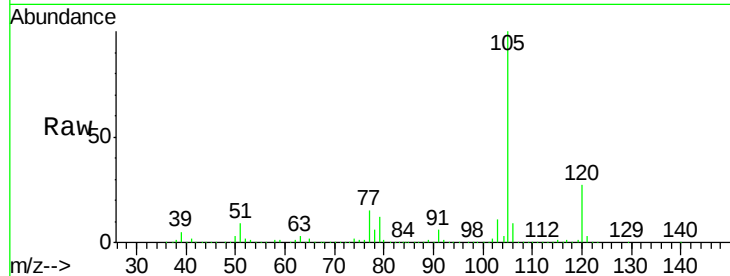
S22-0039

Tot Ion:105 Resp: 1086202

Ion Ratio Lower Upper

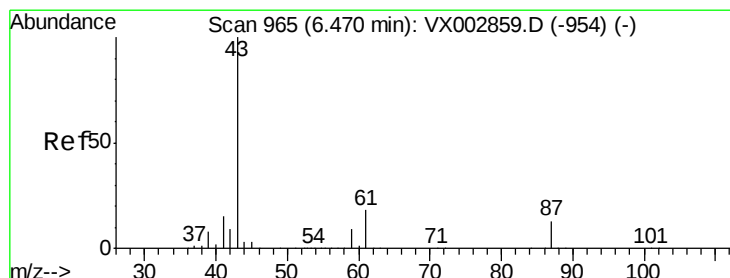
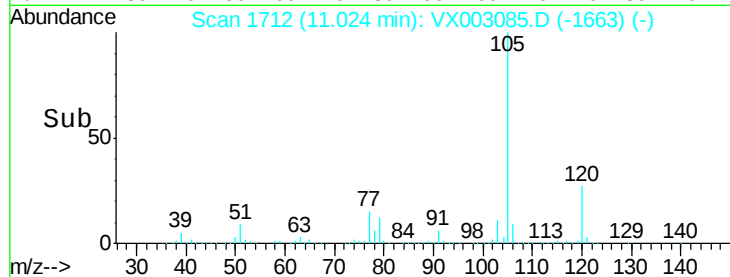
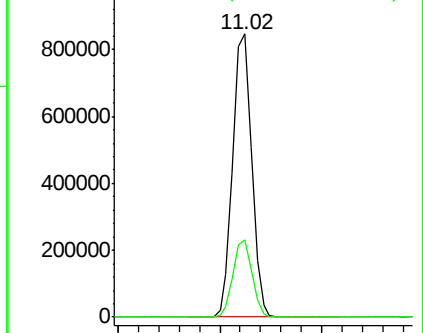
105 100

120 27.2 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 1.05 ug/l

RT: 6.45 min Scan# 962

Delta R.T. -0.02 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Tgt Ion: 43 Resp: 7520

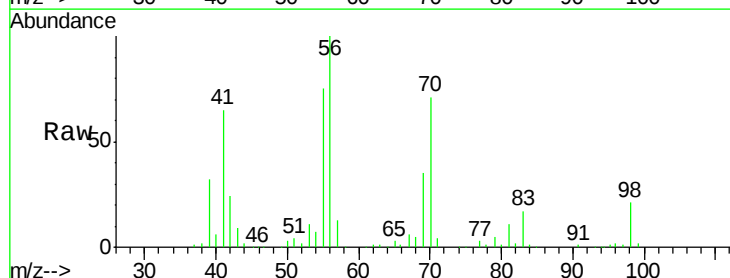
Ion Ratio Lower Upper

43 100

70 834.0 0.0 0.0#

55 853.6 0.0 0.0#

61 3.4 14.4 21.6#

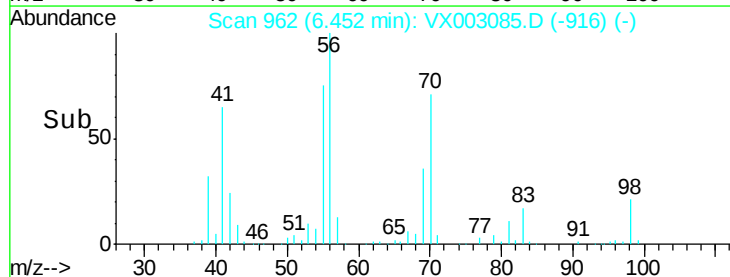
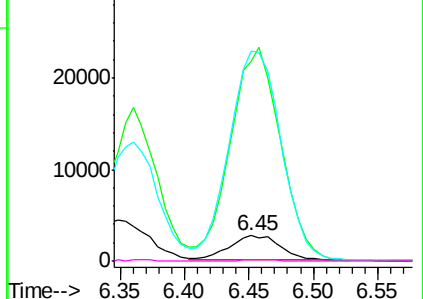


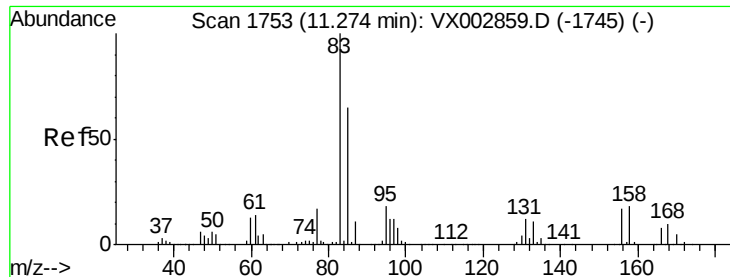
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 0.79 ug/l

RT: 11.28 min Scan# 1754

Delta R.T. 0.01 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

S22-0039

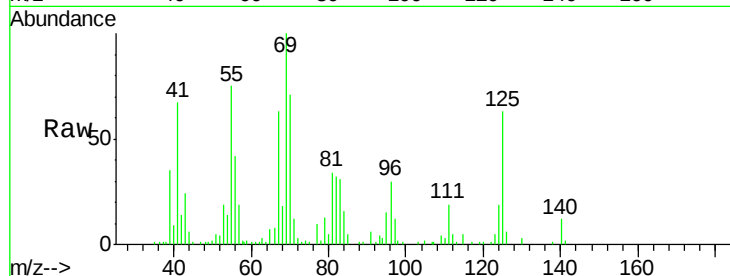
Tot Ion: 83 Resp: 3544

Ion Ratio Lower Upper

83 100

131 2.4 5.6 16.8#

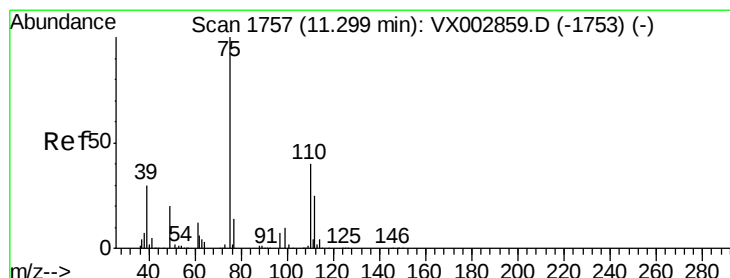
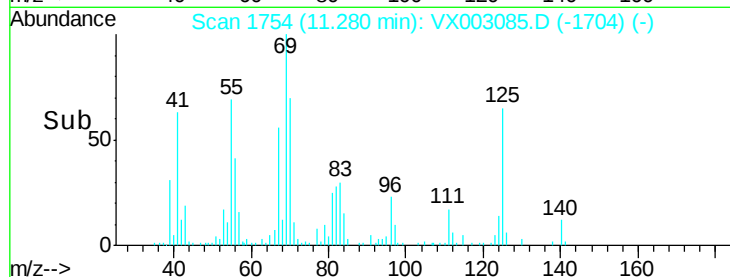
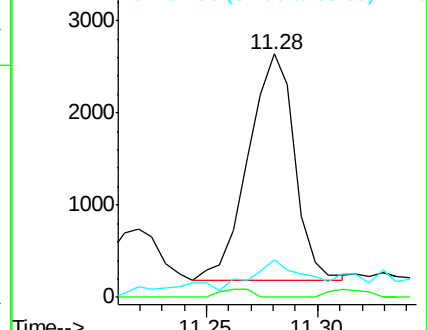
85 14.2 32.4 97.2#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 2.06 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. 0.06 min

Lab File: VX003085.D

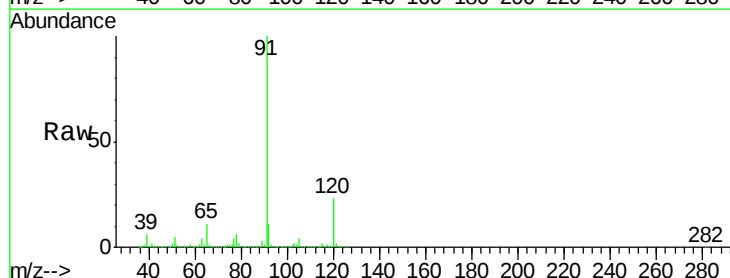
Acq: 30 Jun 2018 18:03

Tgt Ion: 75 Resp: 8073

Ion Ratio Lower Upper

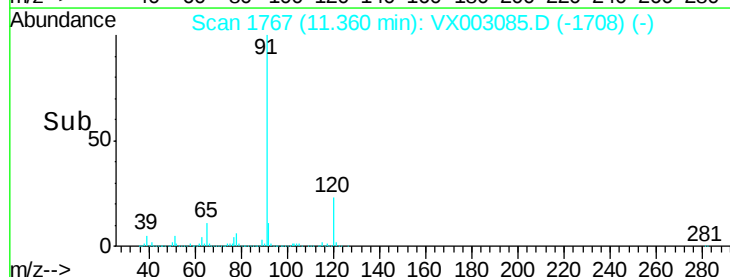
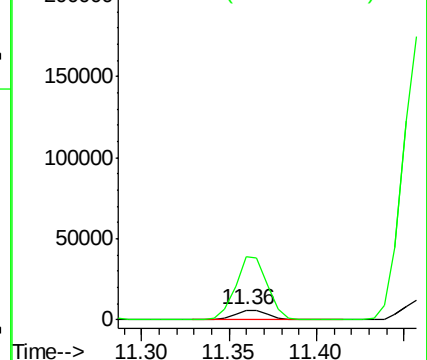
75 100

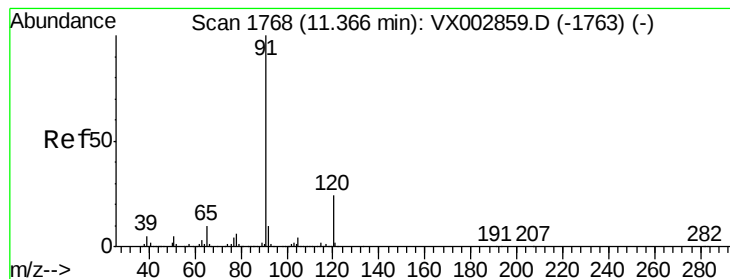
77 603.8 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 73.41 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

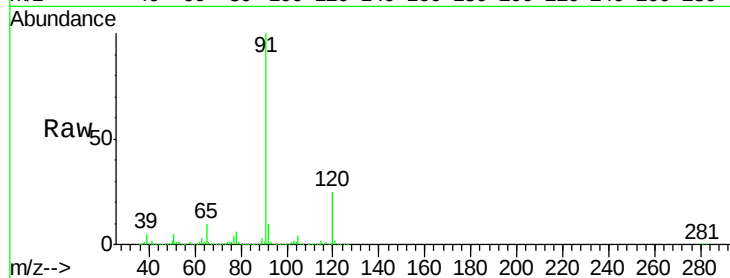
S22-0039

Tot Ion: 91 Resp: 1217476

Ion Ratio Lower Upper

91 100

120 24.0 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

11.37

1000000

800000

600000

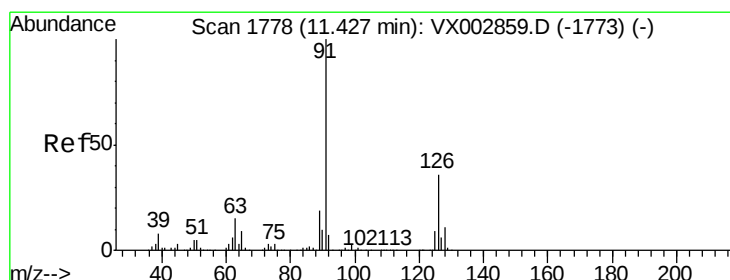
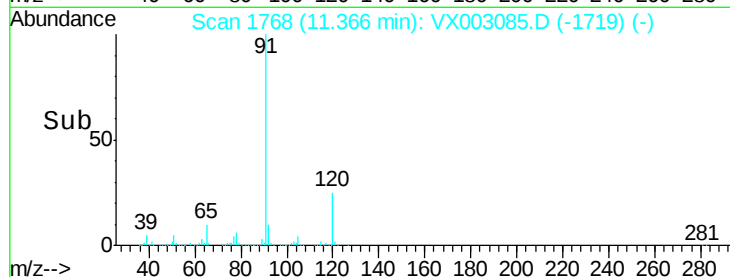
400000

200000

0

11.30 11.40

Time-->



#79

2-Chlorotoluene

Concen: 20.11 ug/l

RT: 11.46 min Scan# 1783

Delta R.T. 0.03 min

Lab File: VX003085.D

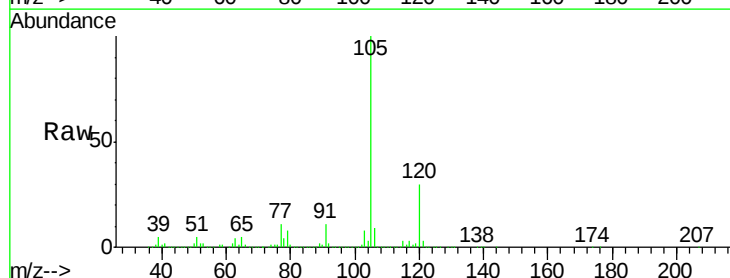
Acq: 30 Jun 2018 18:03

Tgt Ion: 91 Resp: 201954

Ion Ratio Lower Upper

91 100

126 0.0 17.7 53.1#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

11.46

200000

150000

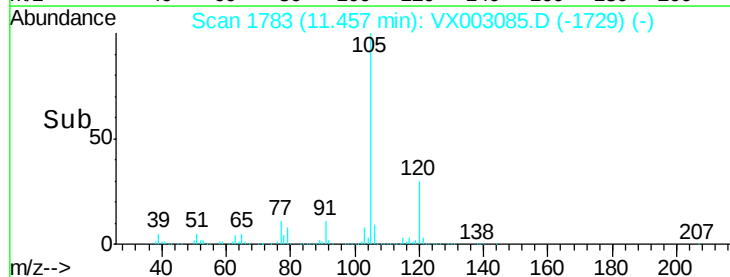
100000

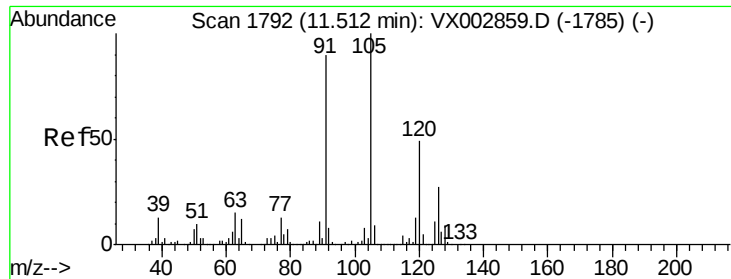
50000

0

11.40 11.45 11.50

Time-->

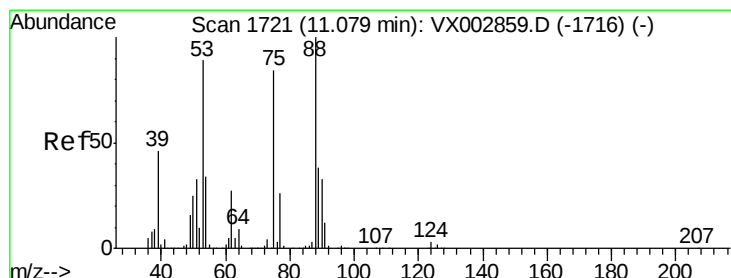
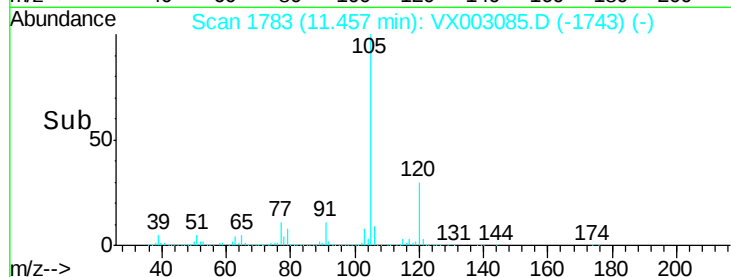
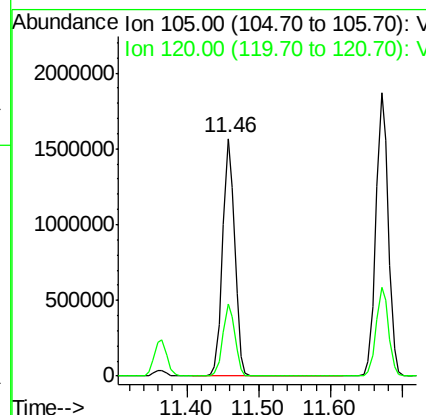
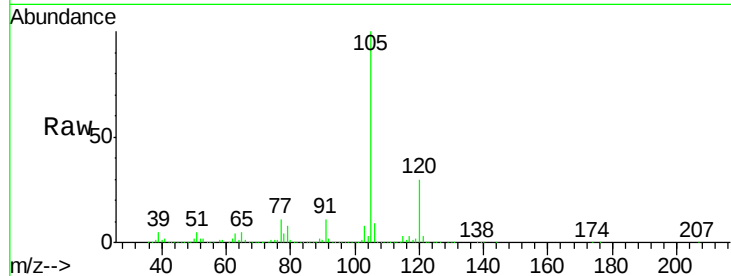




#80  
 1,3,5-Trimethylbenzene  
 Concen: 147.31 ug/l  
 RT: 11.46 min Scan# 1783  
 Delta R.T. -0.05 min  
 Lab File: VX003085.D  
 Acq: 30 Jun 2018 18:03

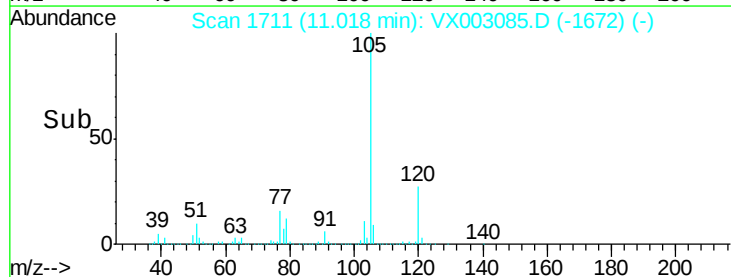
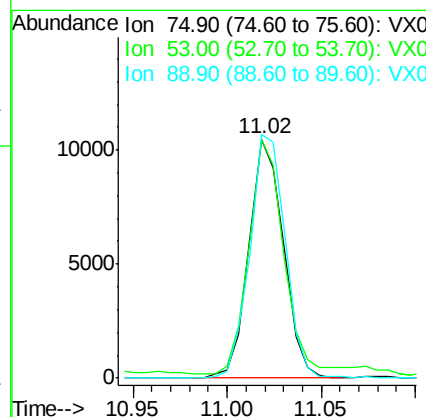
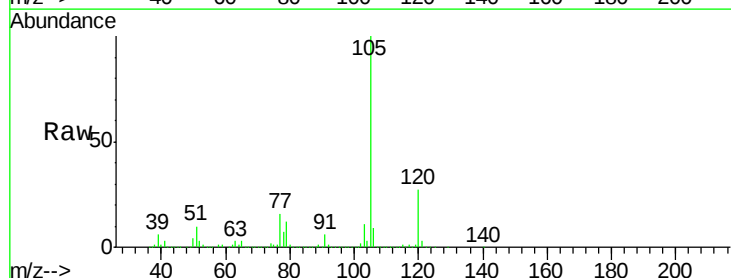
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S22-0039

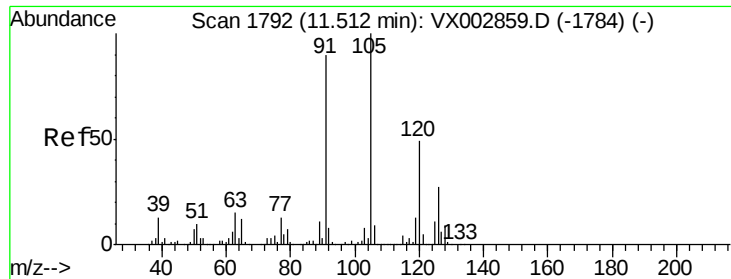
Tot Ion:105 Resp: 1807545  
 Ion Ratio Lower Upper  
 105 100  
 120 30.4 24.4 73.4



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 12.55 ug/l  
 RT: 11.02 min Scan# 1711  
 Delta R.T. -0.06 min  
 Lab File: VX003085.D  
 Acq: 30 Jun 2018 18:03

Tgt Ion: 75 Resp: 13323  
 Ion Ratio Lower Upper  
 75 100  
 53 98.1 86.8 130.2  
 89 104.8 38.2 57.2#





#82

4-Chlorotoluene

Concen: 16.99 ug/l

RT: 11.46 min Scan# 1783

Delta R.T. -0.05 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

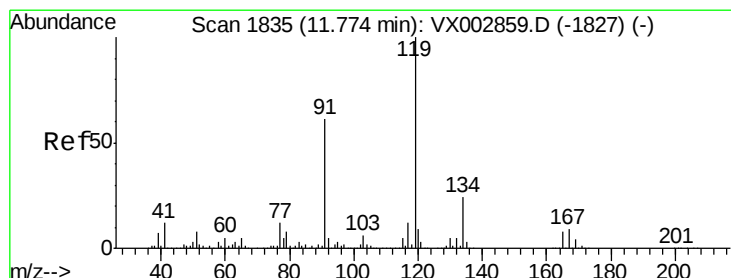
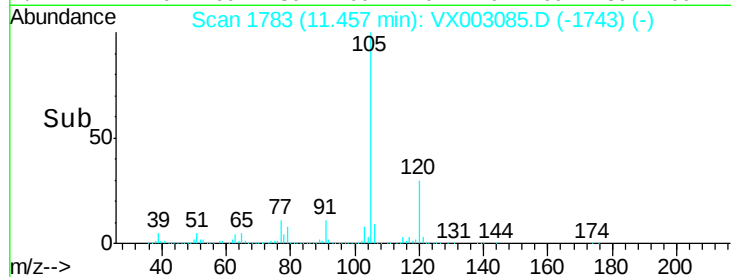
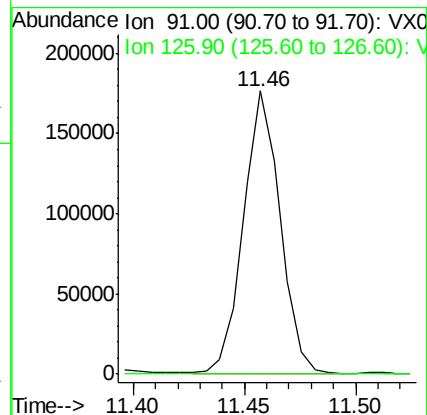
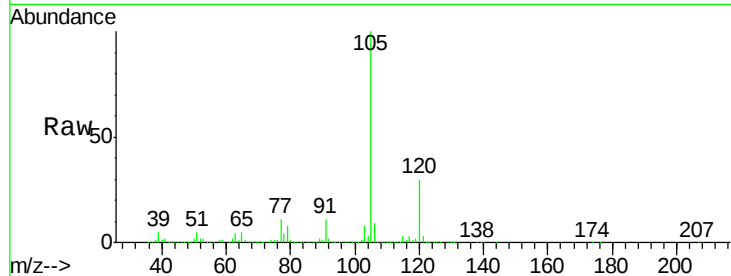
S22-0039

Tot Ion: 91 Resp: 201954

Ion Ratio Lower Upper

91 100

126 0.0 15.4 46.4#



#83

tert-Butylbenzene

Concen: 56.81 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.04 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

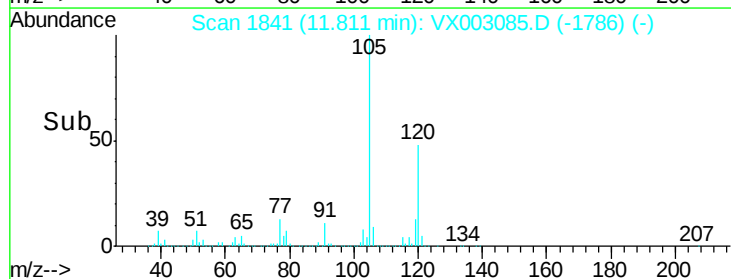
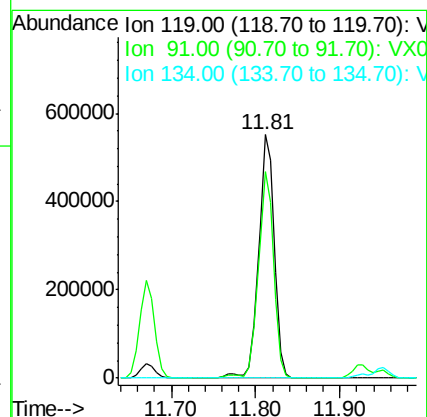
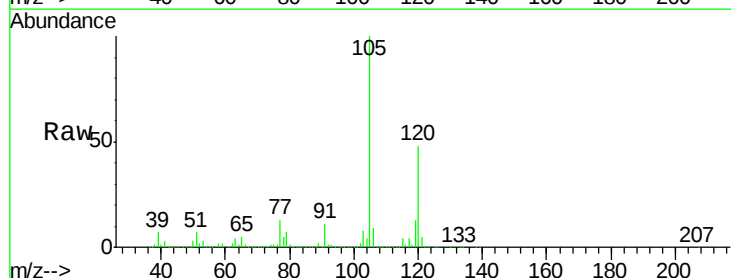
Tgt Ion: 119 Resp: 687018

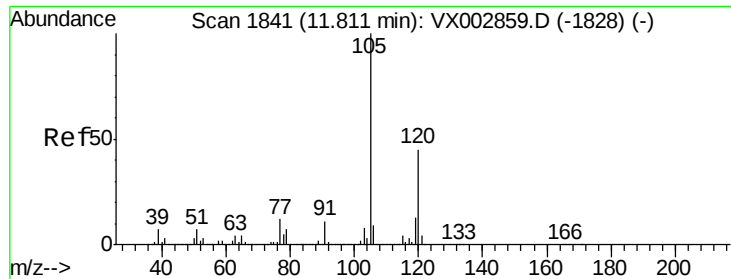
Ion Ratio Lower Upper

119 100

91 83.3 30.3 90.9

134 0.0 11.7 35.1#





#84

1,2,4-Trimethylbenzene

Concen: 412.22 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

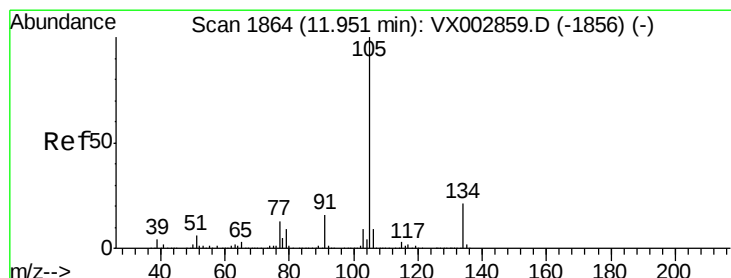
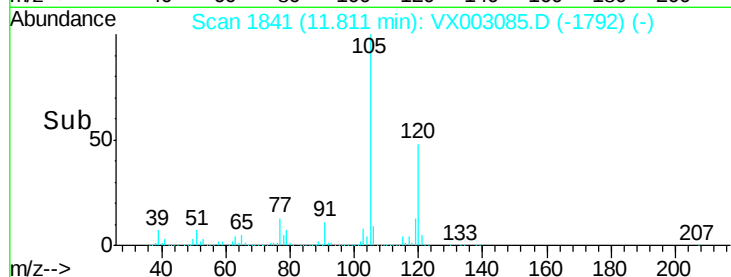
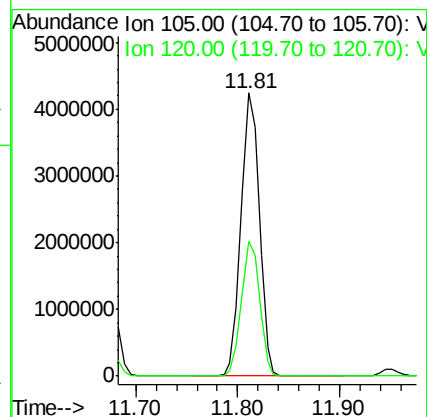
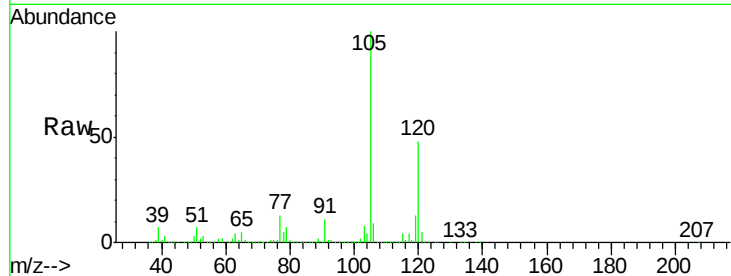
S22-0039

Tot Ion:105 Resp: 5240850

Ion Ratio Lower Upper

105 100

120 47.4 22.3 66.8



#85

sec-Butylbenzene

Concen: 357.18 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.14 min

Lab File: VX003085.D

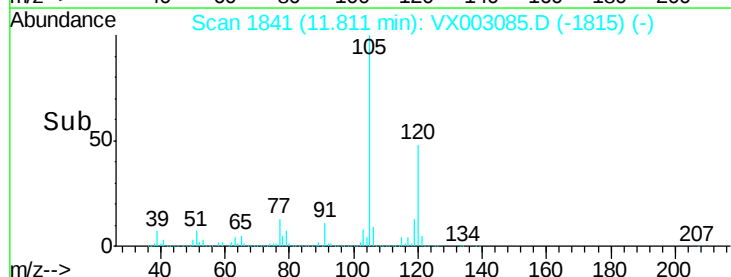
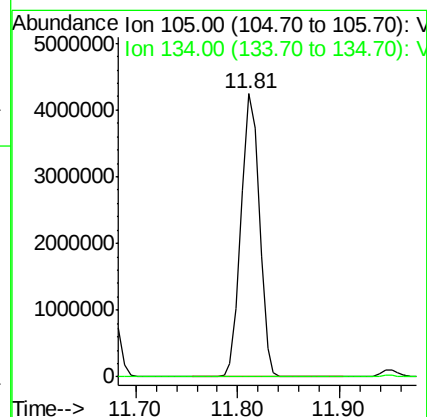
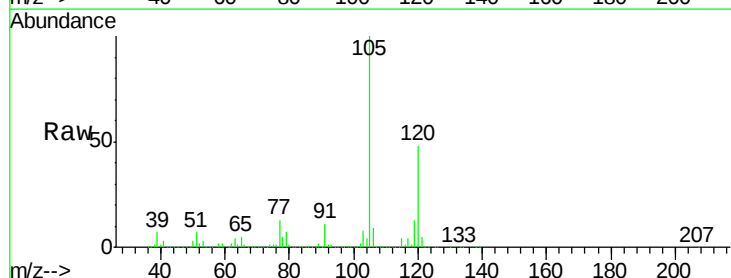
Acq: 30 Jun 2018 18:03

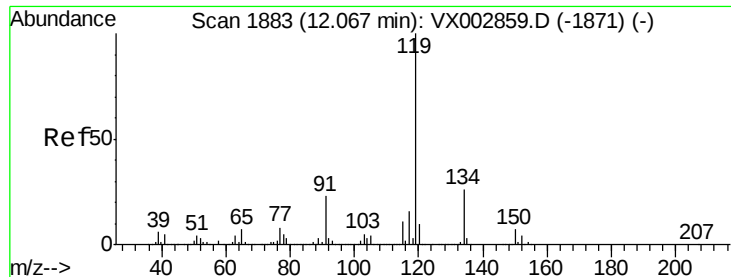
Tgt Ion:105 Resp: 5240086

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.1#





#86

p-Isopropyltoluene

Concen: 12.31 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

S22-0039

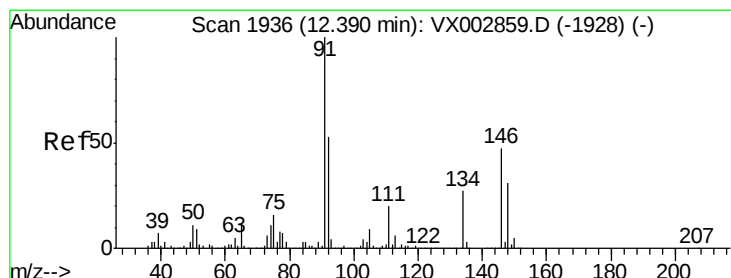
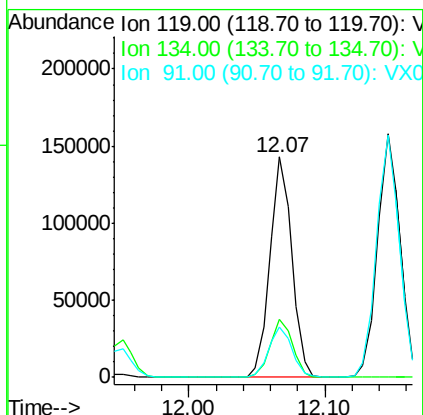
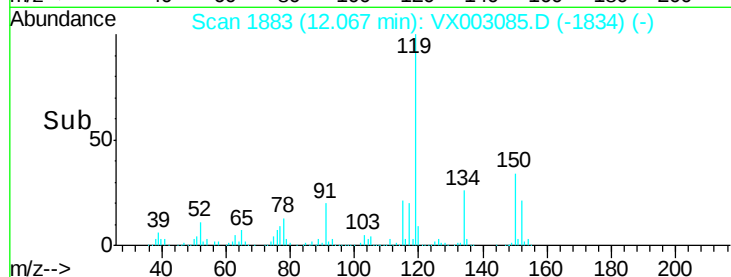
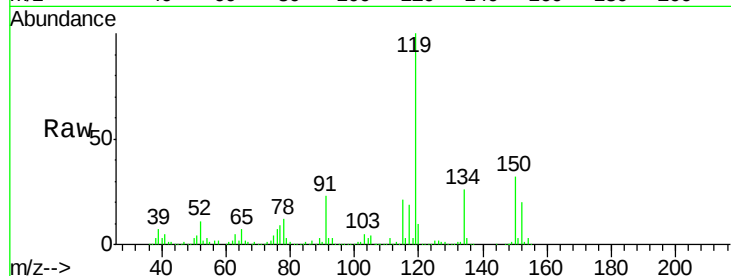
Tot Ion:119 Resp: 162372

Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.1

91 24.0 11.9 35.7



#89

n-Butylbenzene

Concen: 6.81 ug/l

RT: 12.39 min Scan# 1936

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

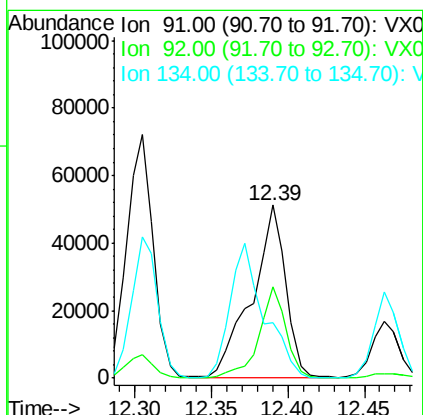
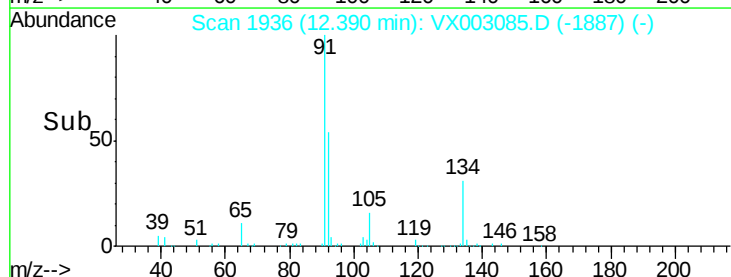
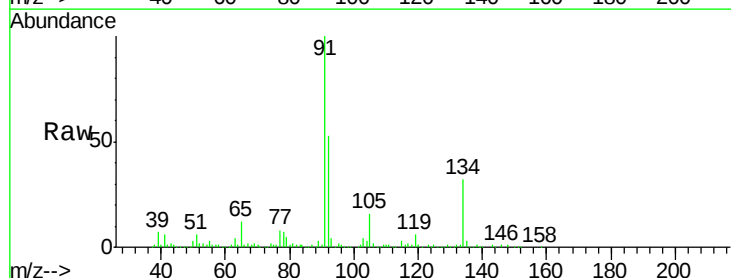
Tgt Ion: 91 Resp: 78171

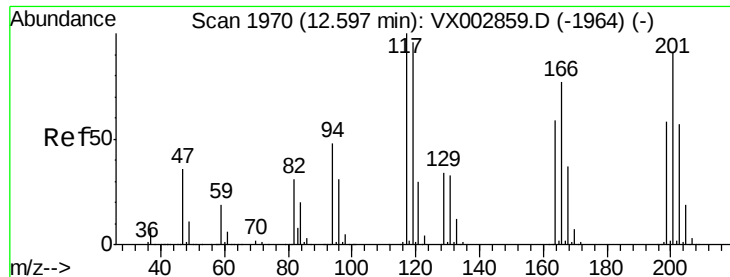
Ion Ratio Lower Upper

91 100

92 42.4 26.0 78.0

134 79.3 13.5 40.5#





#90

Hexachloroethane

Concen: 14.67 ug/l

RT: 12.59 min Scan# 1969

Delta R.T. -0.01 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

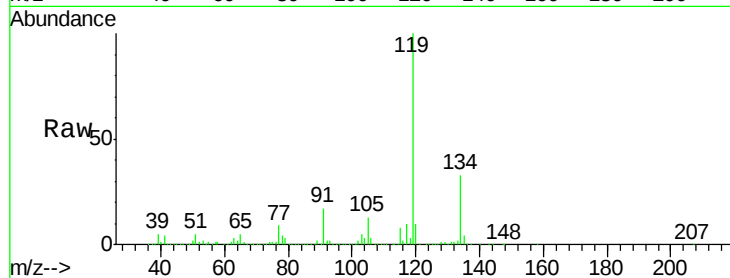
S22-0039

Tot Ion:117 Resp: 28781

Ion Ratio Lower Upper

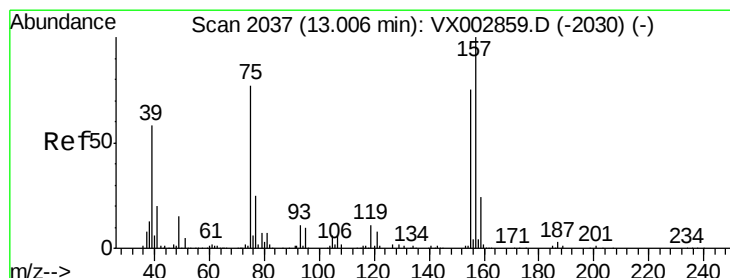
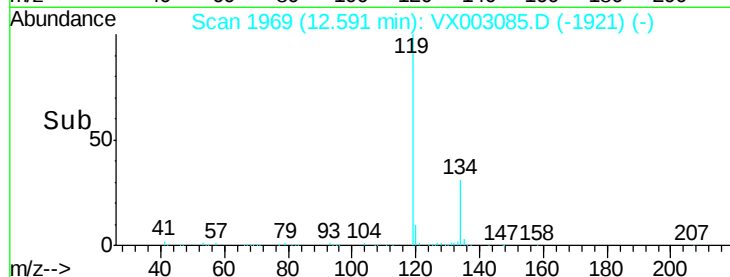
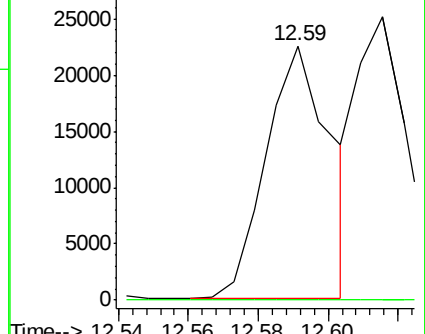
117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.63 ug/l

RT: 13.02 min Scan# 2040

Delta R.T. 0.02 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

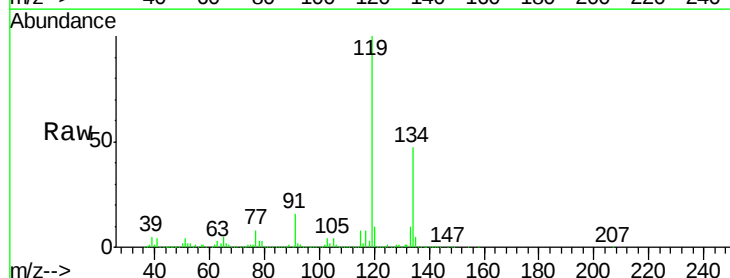
Tgt Ion: 75 Resp: 2657

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

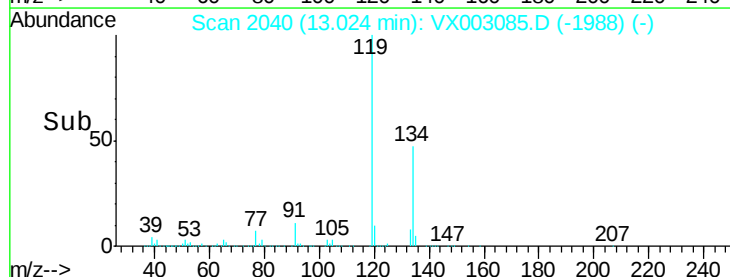
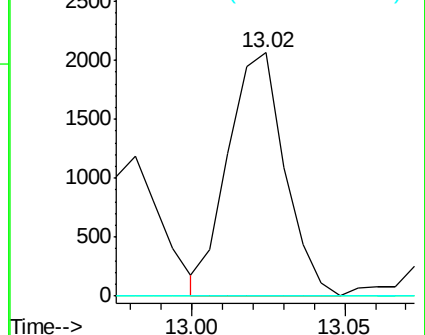
157 0.0 60.1 180.3#

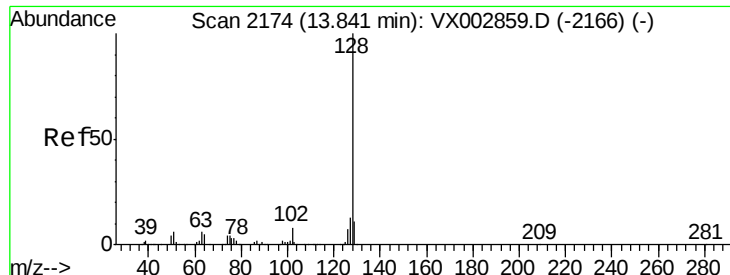


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 105.31 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX003085.D

Acq: 30 Jun 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

S22-0039

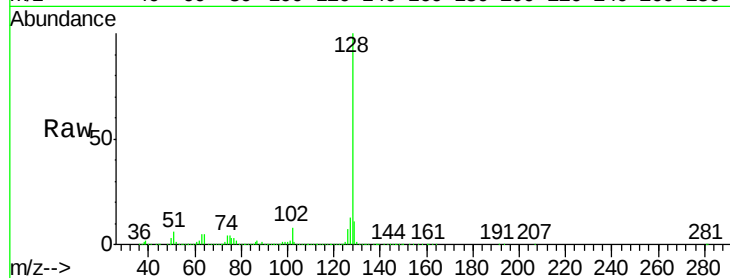
Tot Ion:128 Resp: 1561172

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 11.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

