

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020119\  
 Data File : VX007345.D  
 Acq On : 01 Feb 2019 19:06  
 Operator : JC/SP  
 Sample : K1296-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-MW202S-20190129

Quant Time: Feb 02 03:20:47 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      | 5.67  | 168  | 490745   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 773895   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 737342   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 363384   | 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   | 267920   | 51.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.88% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 243390   | 48.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.68%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 935426   | 50.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.14% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 337746   | 49.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.04%  |          |

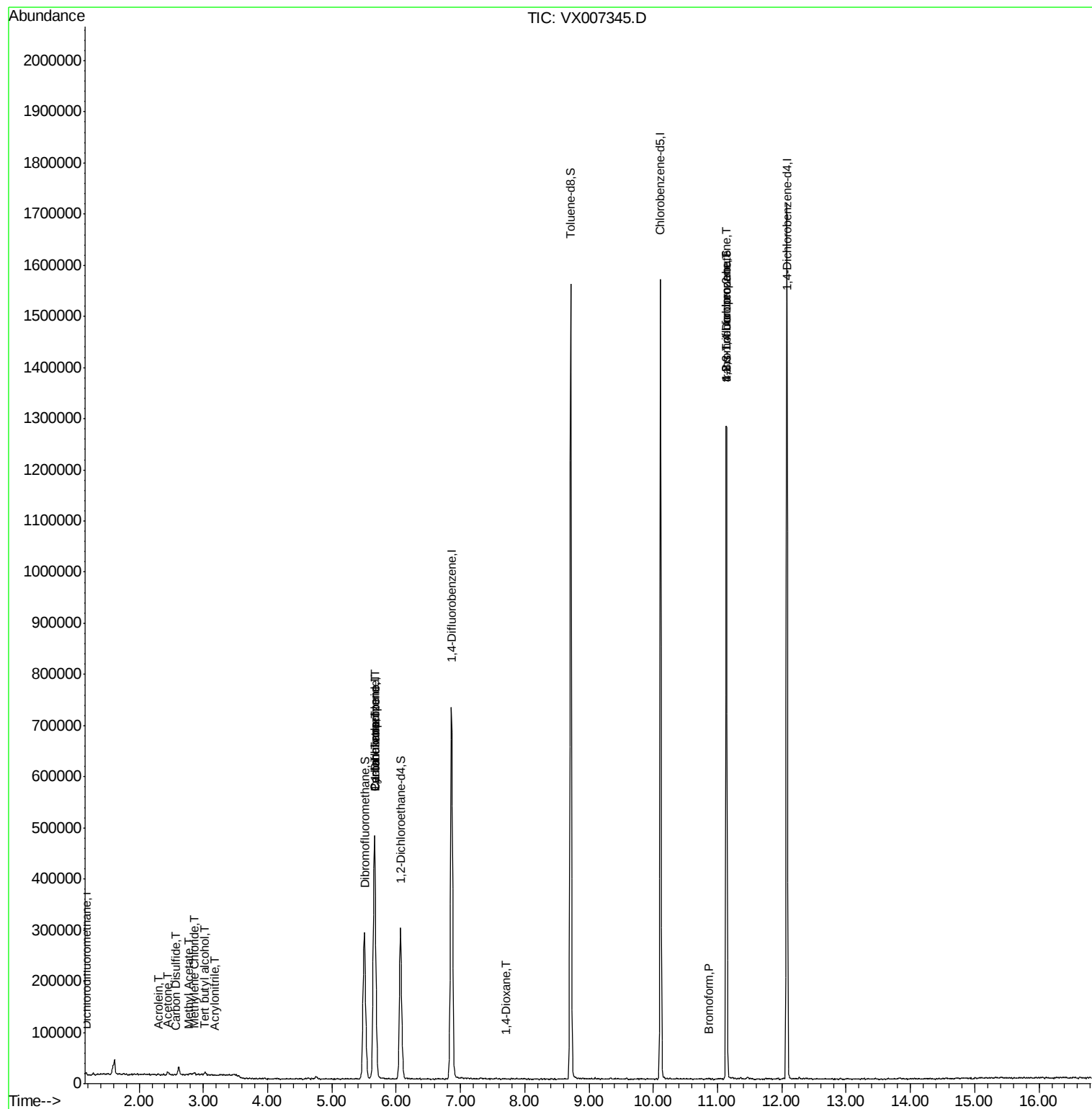
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.19  | 85   | 197      | 0.210     | ug/l # | 43     |
| 5) Bromomethane                | 1.66  | 94   | 551      | Below Cal | #      | 38     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 3209     | 2.977     | ug/l # | 84     |
| 13) Acrolein                   | 2.30  | 56   | 137      | 0.271     | ug/l # | 1      |
| 15) Acrylonitrile              | 3.17  | 53   | 816      | 0.306     | ug/l # | 33     |
| 16) Acetone                    | 2.45  | 43   | 6077     | 2.547     | ug/l   | 97     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1123     | 2.209     | ug/l # | 71     |
| 18) Methyl Acetate             | 2.78  | 43   | 2352     | 0.967     | ug/l # | 52     |
| 20) Methylene Chloride         | 2.86  | 84   | 2951     | 0.214     | ug/l # | 89     |
| 31) Cyclohexane                | 5.67  | 56   | 9201     | 1.270     | ug/l # | 6      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 31225    | 4.497     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 45024    | 6.684     | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.71  | 88   | 140      | 8.007     | ug/l # | 40     |
| 71) Bromoform                  | 10.86 | 173  | 189      | 4.066     | ug/l # | 29     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 160122   | 22.654    | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 160122   | 68.327    | ug/l # | 9      |

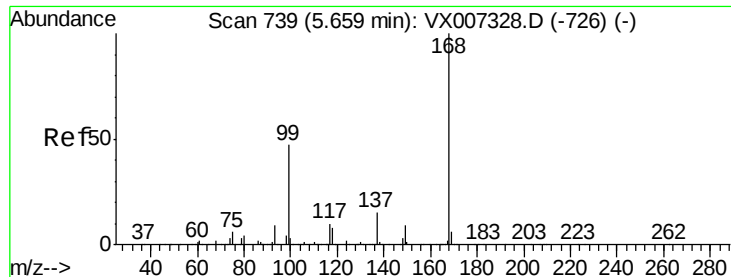
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

Instrument :

MSVOA\_X

ClientSampleId :

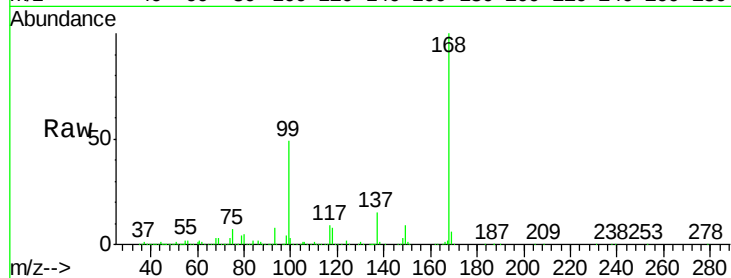
BP-TT-MW202S-20190129

Tot Ion:168 Resp: 490745

Ion Ratio Lower Upper

168 100

99 49.2 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

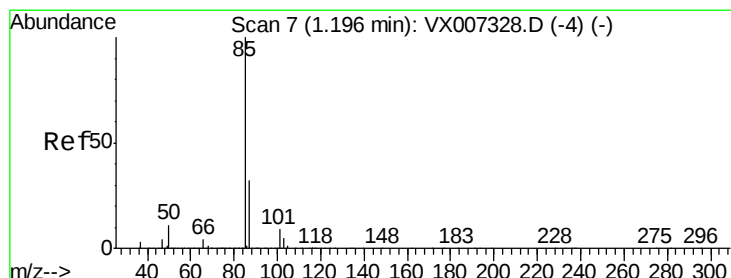
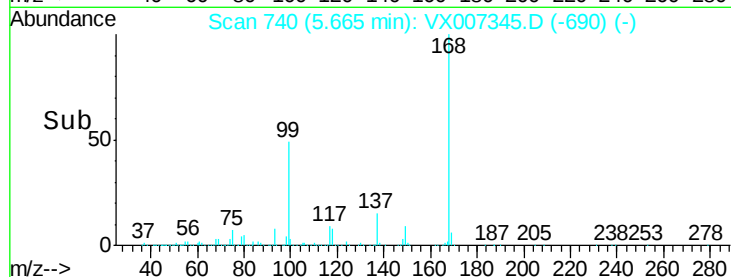
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.210 ug/l

RT: 1.19 min Scan# 6

Delta R.T. -0.01 min

Lab File: VX007345.D

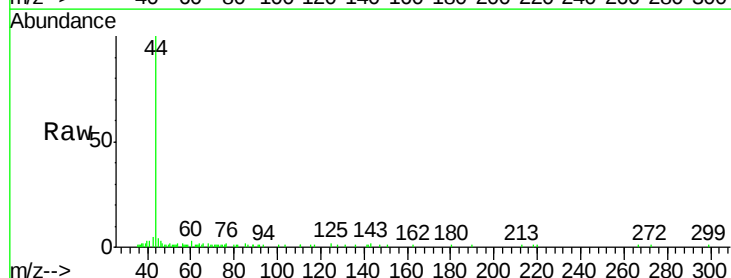
Acq: 01 Feb 2019 19:06

Tgt Ion: 85 Resp: 197

Ion Ratio Lower Upper

85 100

87 0.0 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

200

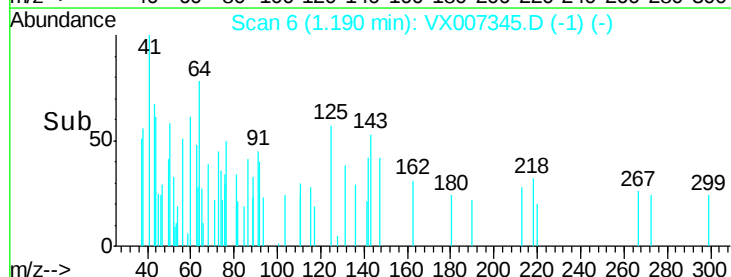
150

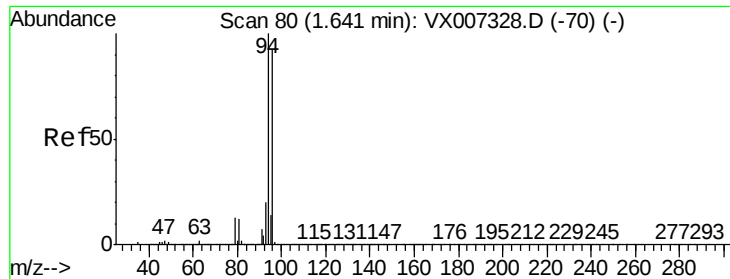
100

50

0

Time--> 1.18 1.20





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

Instrument :

MSVOA\_X

ClientSampleId :

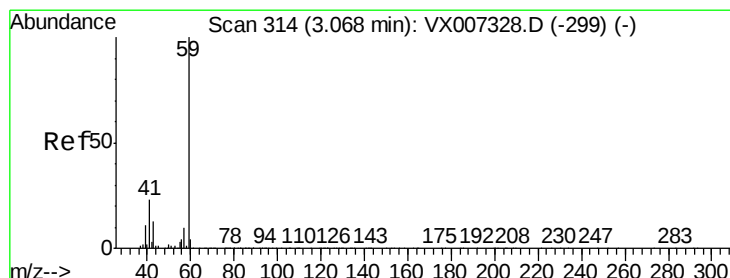
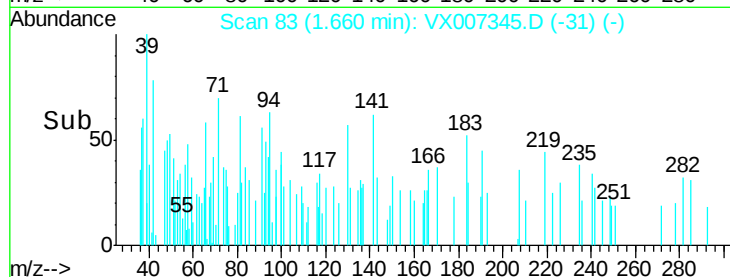
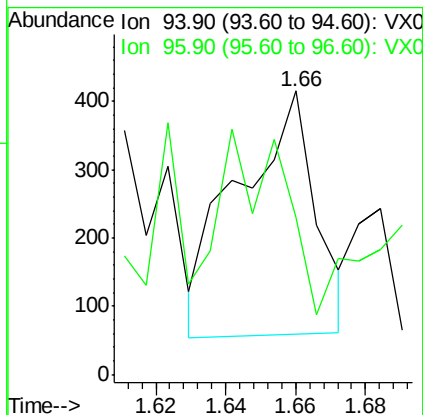
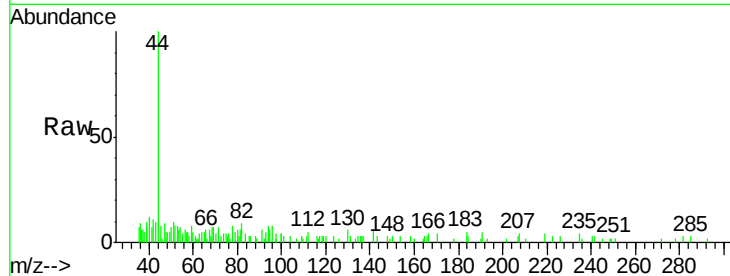
BP-TT-MW202S-20190129

Tot Ion: 94 Resp: 551

Ion Ratio Lower Upper

94 100

96 33.0 73.9 110.9#



#11

Tert butyl alcohol

Concen: 2.977 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.05 min

Lab File: VX007345.D

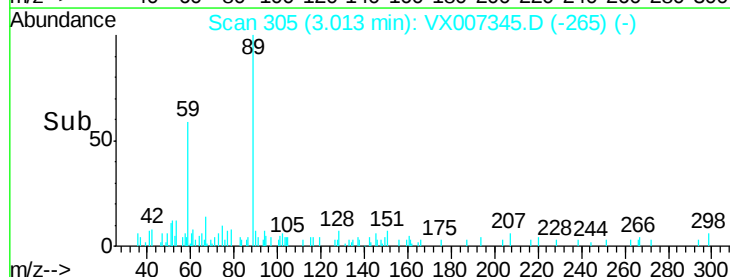
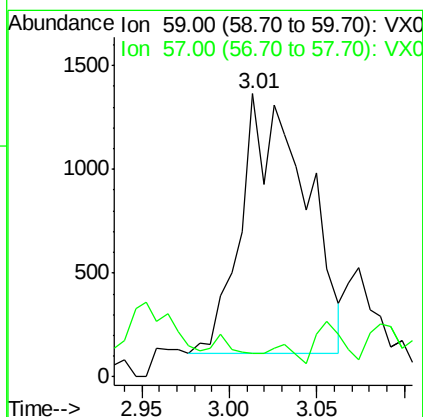
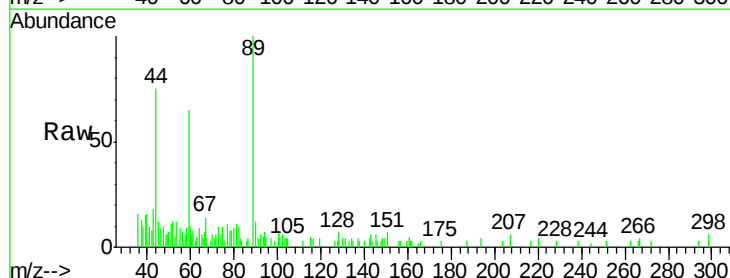
Acq: 01 Feb 2019 19:06

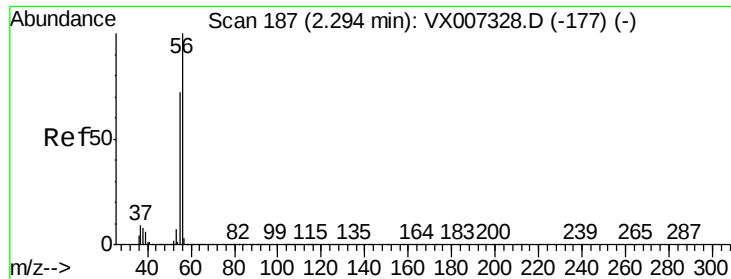
Tgt Ion: 59 Resp: 3209

Ion Ratio Lower Upper

59 100

57 4.3 8.1 12.1#





#13

Acrolein

Concen: 0.271 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

Instrument :

MSVOA\_X

ClientSampleId :

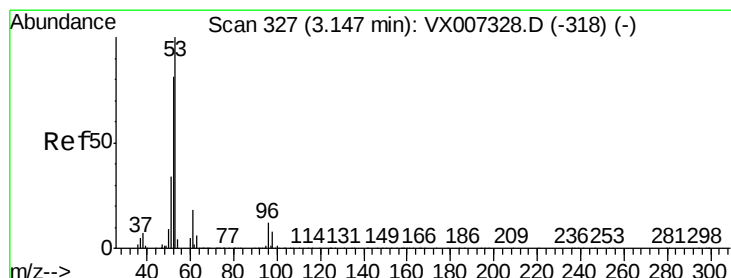
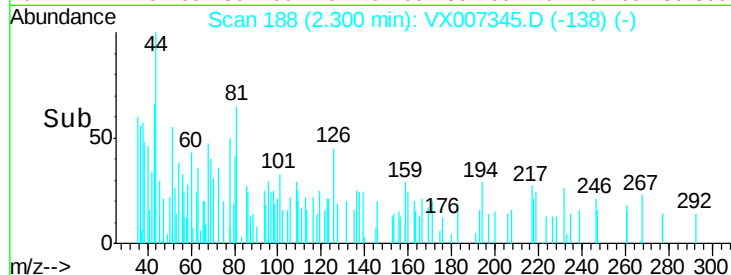
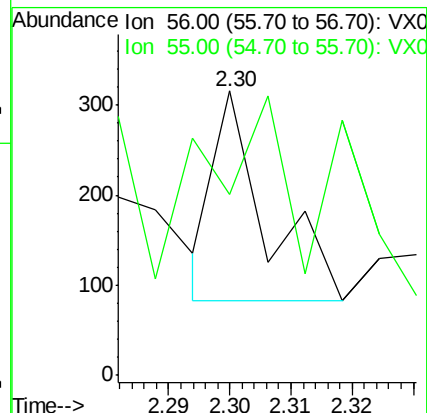
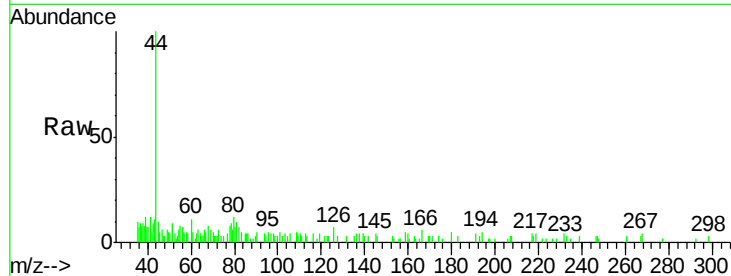
BP-TT-MW202S-20190129

Tot Ion: 56 Resp: 137

Ion Ratio Lower Upper

56 100

55 216.8 56.9 85.3#



#15

Acrylonitrile

Concen: 0.306 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.02 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

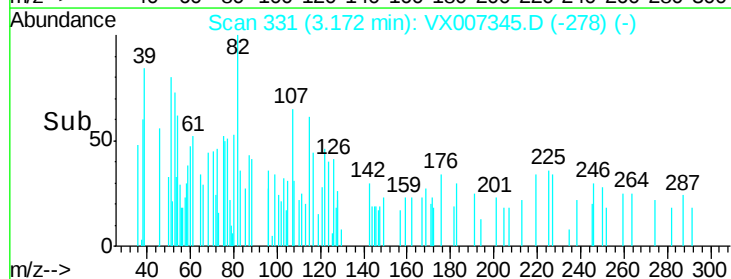
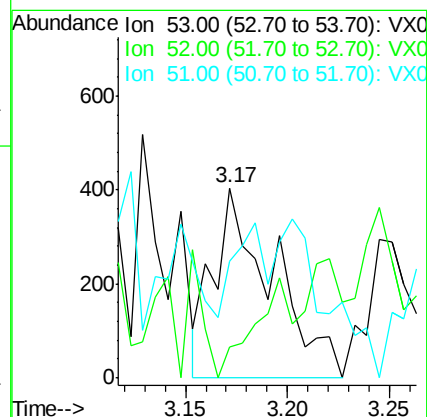
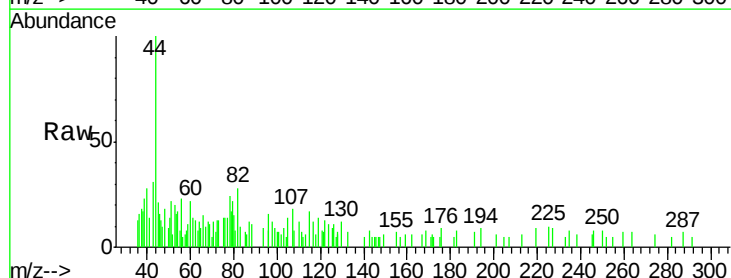
Tgt Ion: 53 Resp: 816

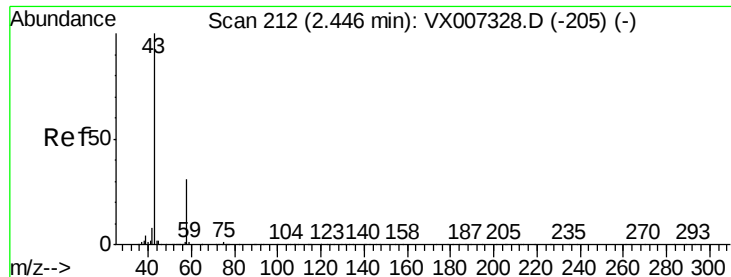
Ion Ratio Lower Upper

53 100

52 0.0 66.4 99.6#

51 40.6 28.4 42.6





#16

Acetone

Concen: 2.547 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

Instrument :

MSVOA\_X

ClientSampleId :

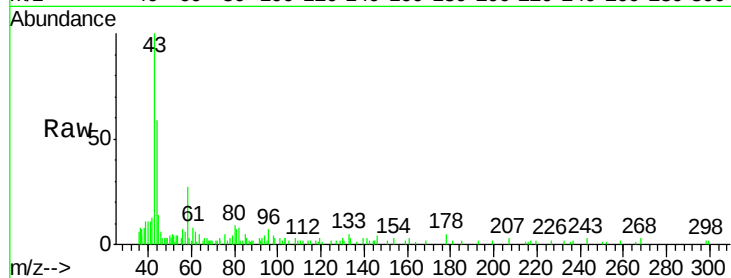
BP-TT-MW202S-20190129

Tot Ion: 43 Resp: 6077

Ion Ratio Lower Upper

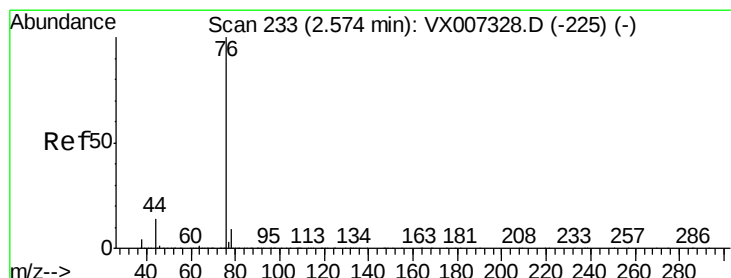
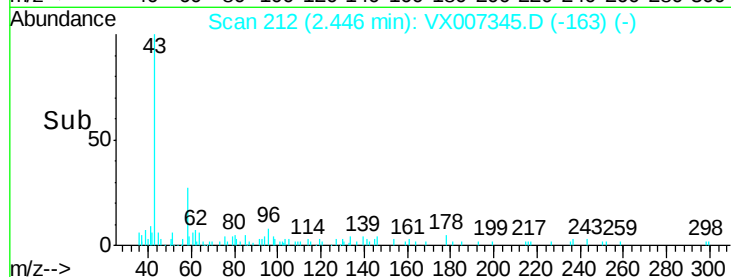
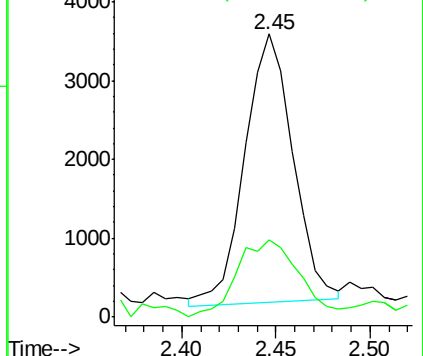
43 100

58 29.2 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 2.209 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007345.D

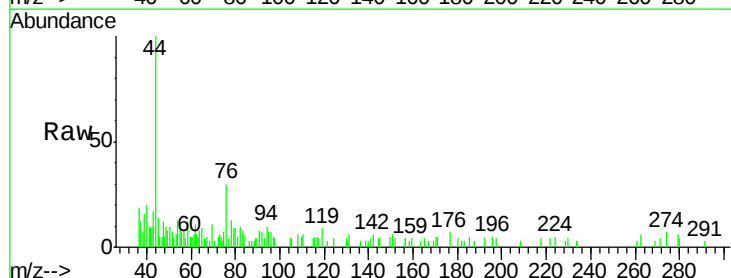
Acq: 01 Feb 2019 19:06

Tgt Ion: 76 Resp: 1123

Ion Ratio Lower Upper

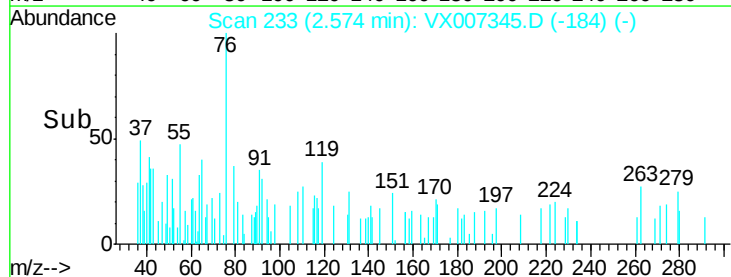
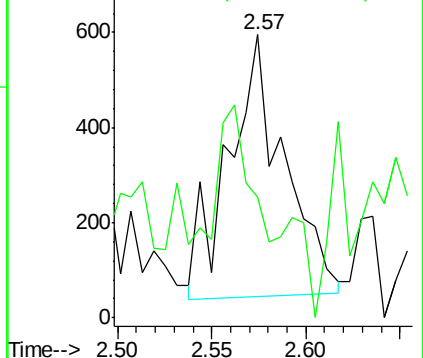
76 100

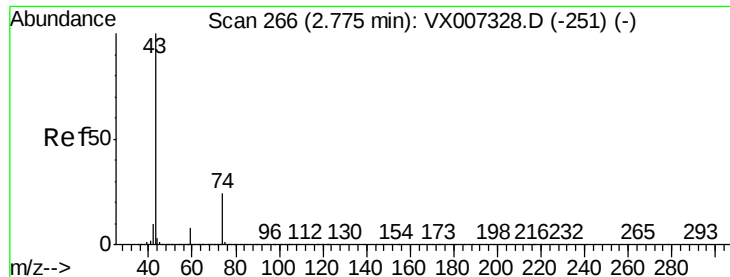
78 19.4 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#18

Methyl Acetate

Concen: 0.967 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

Instrument :

MSVOA\_X

ClientSampleId :

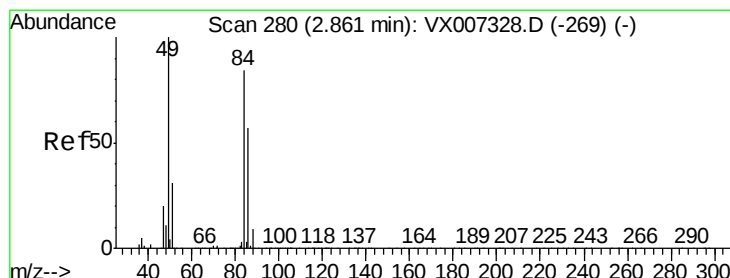
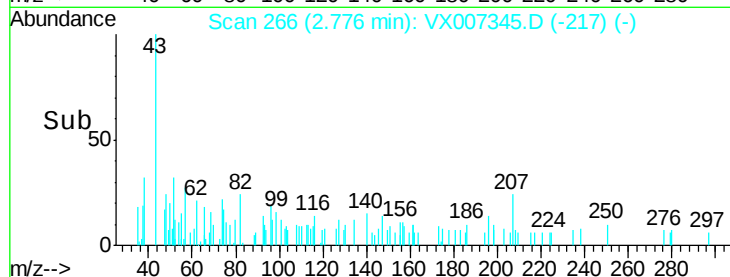
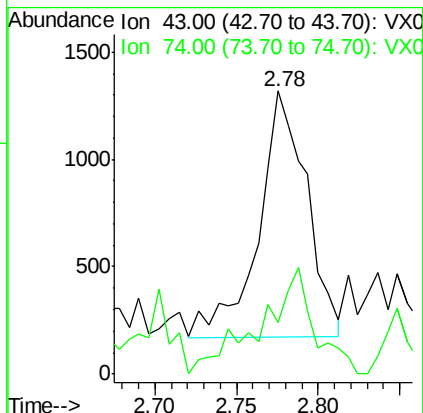
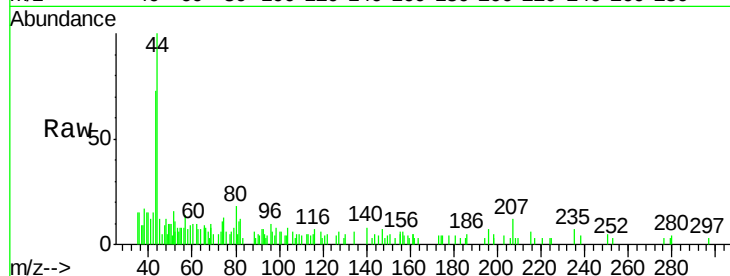
BP-TT-MW202S-20190129

Tot Ion: 43 Resp: 2352

Ion Ratio Lower Upper

43 100

74 48.1 19.4 29.2#



#20

Methylene Chloride

Concen: 0.214 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

Tgt Ion: 84 Resp: 2951

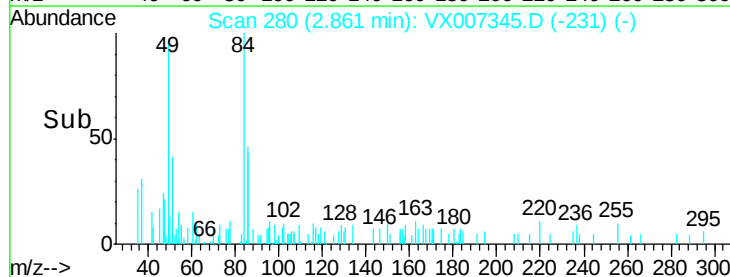
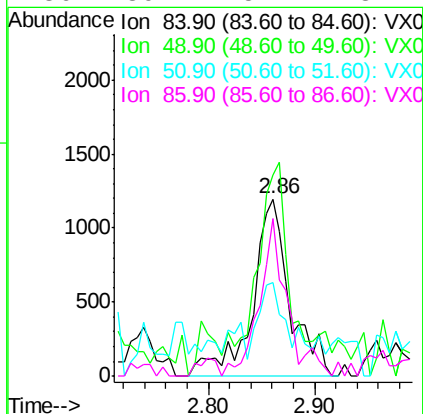
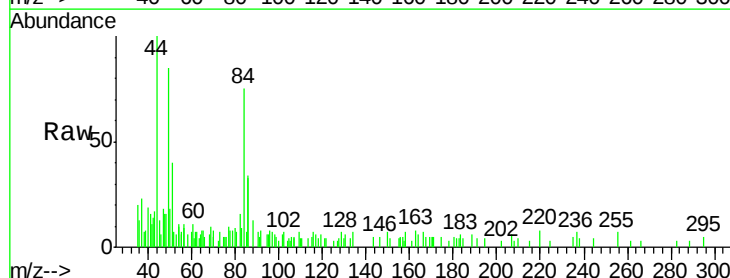
Ion Ratio Lower Upper

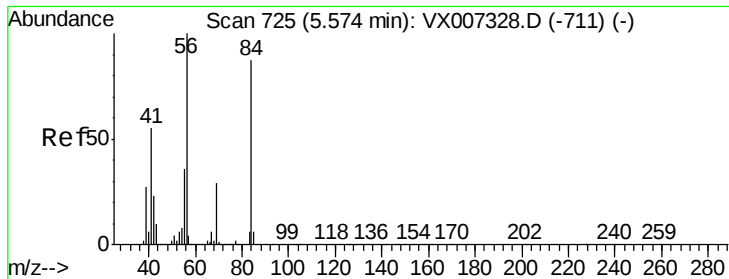
84 100

49 113.3 94.8 142.2

51 40.1 29.8 44.8

86 89.1 54.1 81.1#

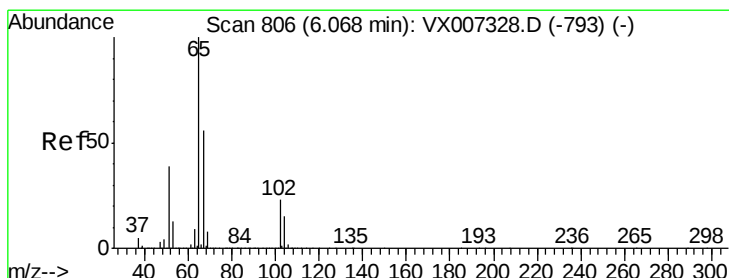
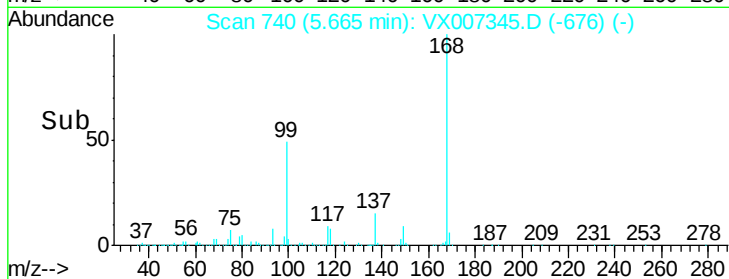
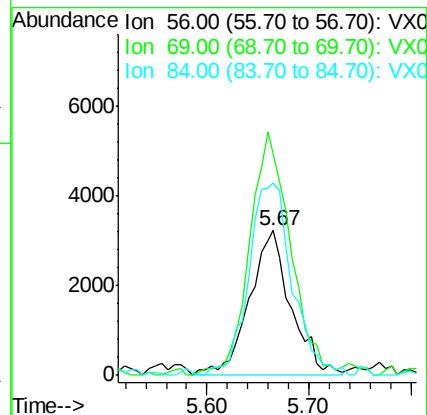
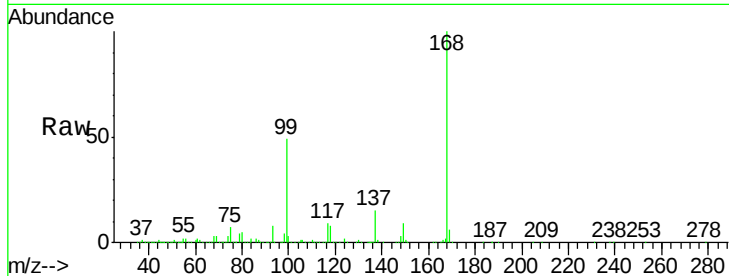




#31  
Cyclohexane  
Concen: 1.270 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.09 min  
Lab File: VX007345.D  
Acq: 01 Feb 2019 19:06

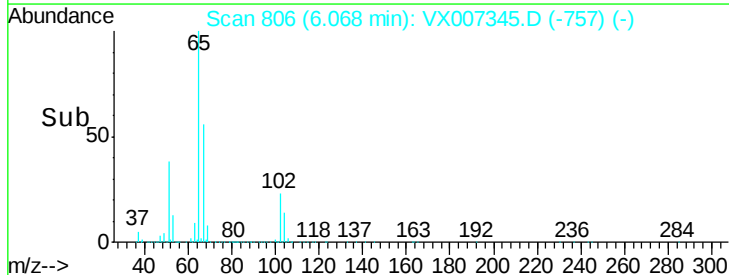
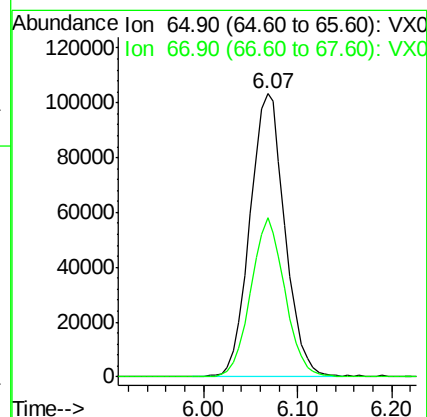
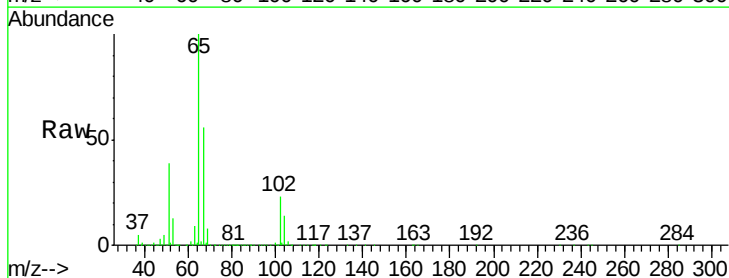
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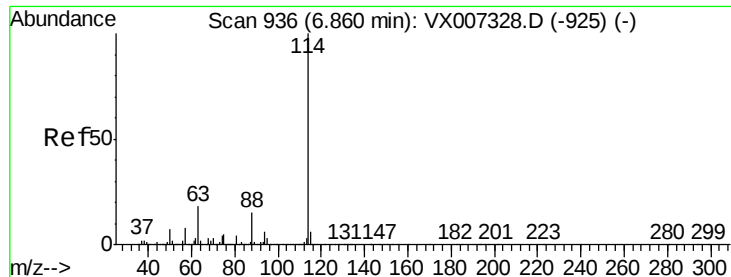
Tot Ion: 56 Resp: 9201  
Ion Ratio Lower Upper  
56 100  
69 153.6 23.0 34.6#  
84 131.1 69.8 104.6#



#33  
1,2-Dichloroethane-d4  
Concen: 51.435 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: VX007345.D  
Acq: 01 Feb 2019 19:06

Tgt Ion: 65 Resp: 267920  
Ion Ratio Lower Upper  
65 100  
67 54.5 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-MW202S-20190129

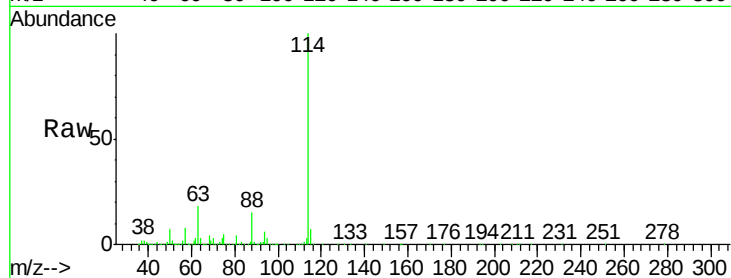
Tot Ion:114 Resp: 773895

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.6

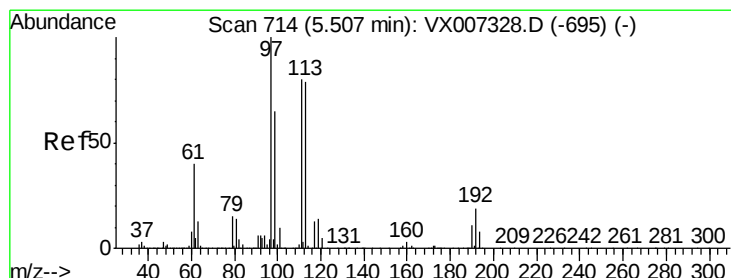
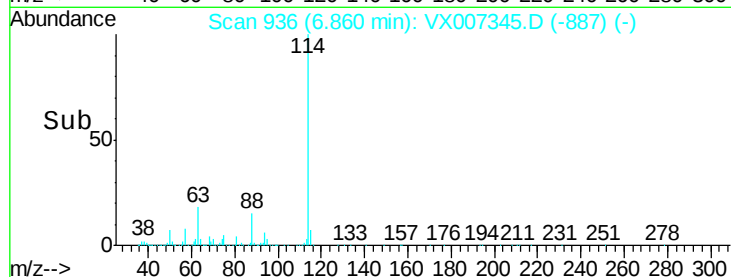
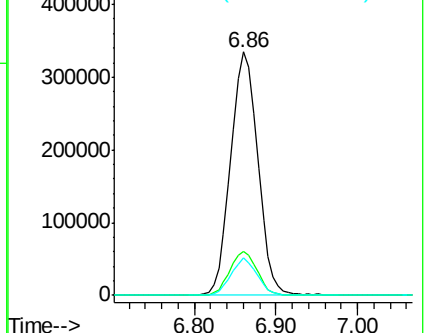
88 15.1 0.0 29.6



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: 48.335 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

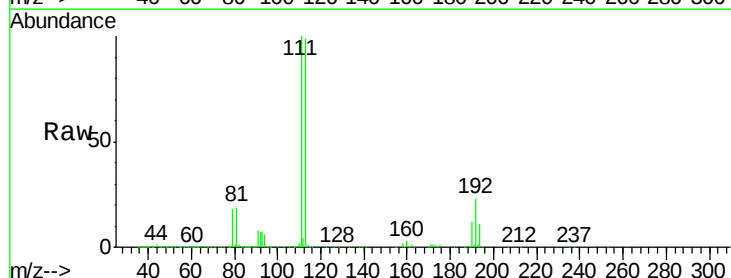
Tgt Ion:113 Resp: 243390

Ion Ratio Lower Upper

113 100

111 102.8 81.8 122.8

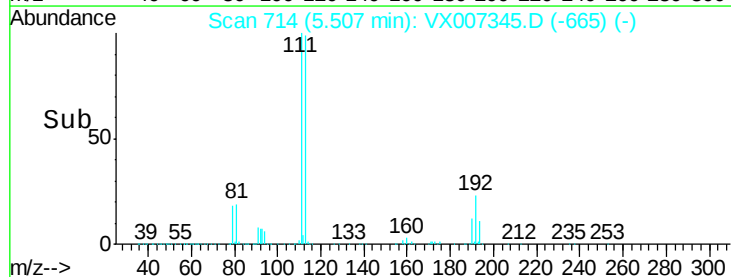
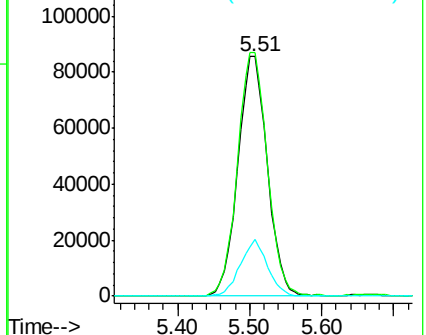
192 21.7 18.5 27.7

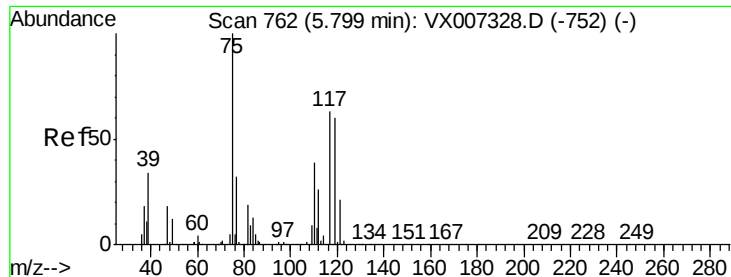


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

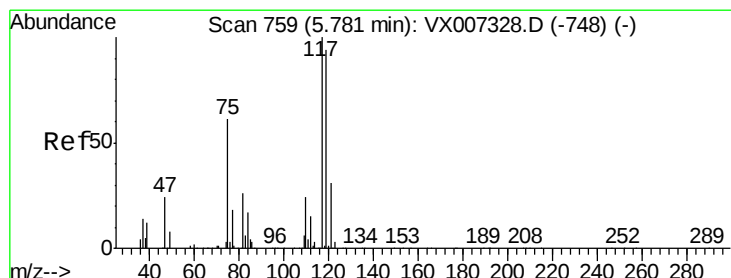
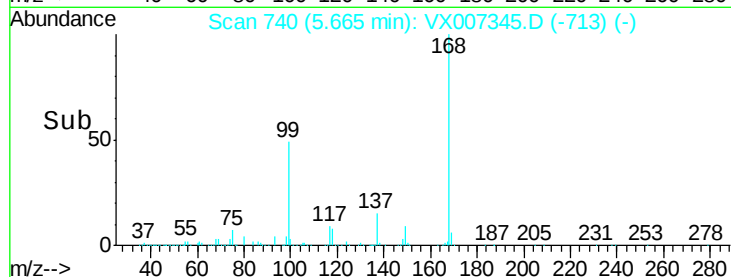
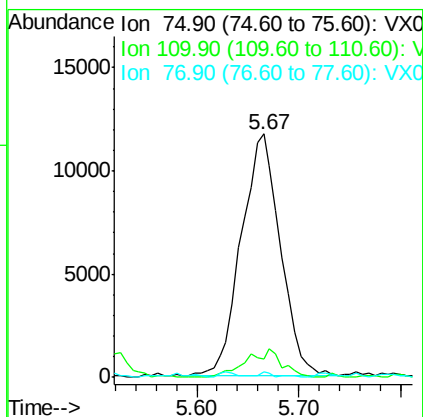
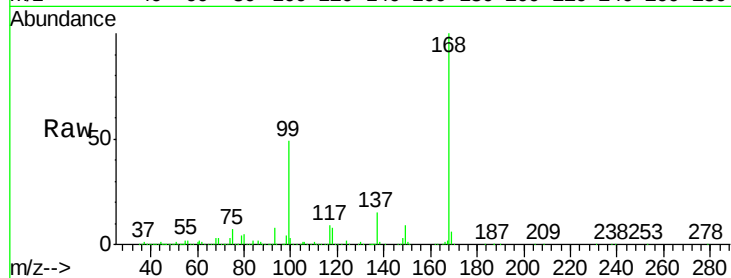




#36  
 1,1-Dichloropropene  
 Concen: 4.497 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX007345.D  
 Acq: 01 Feb 2019 19:06

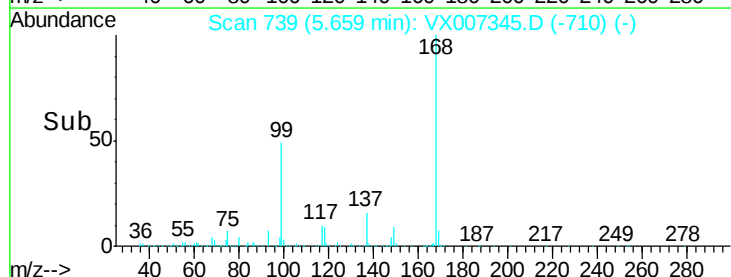
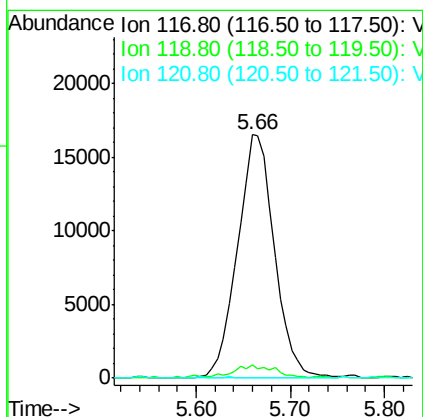
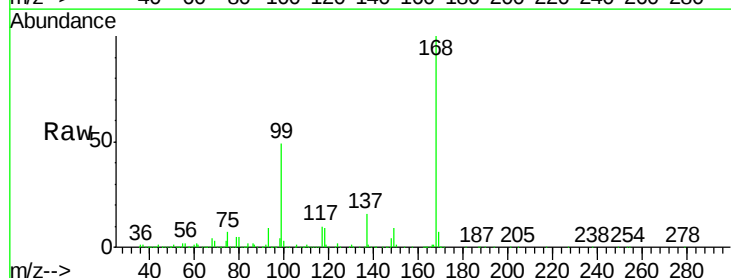
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-MW202S-20190129

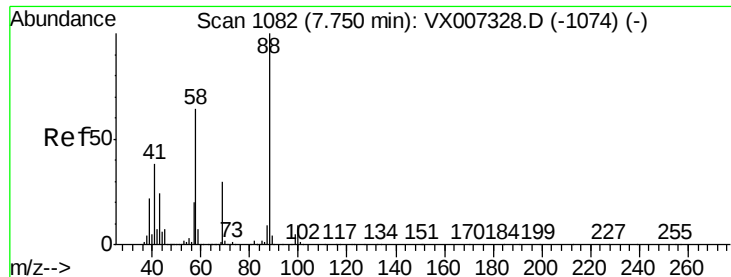
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.0  | 20.0  | 59.9# |
| 77      | 0.8   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.684 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.12 min  
 Lab File: VX007345.D  
 Acq: 01 Feb 2019 19:06

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.7   | 75.3  | 112.9# |
| 121     | 0.0   | 25.0  | 37.4#  |

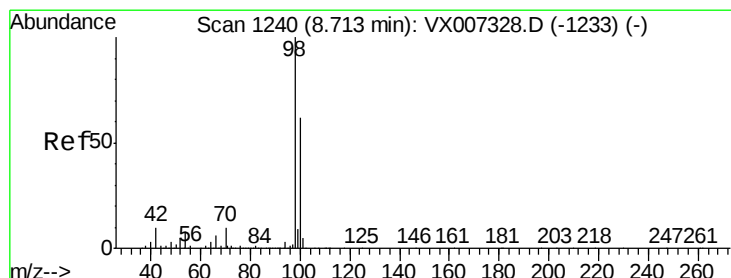
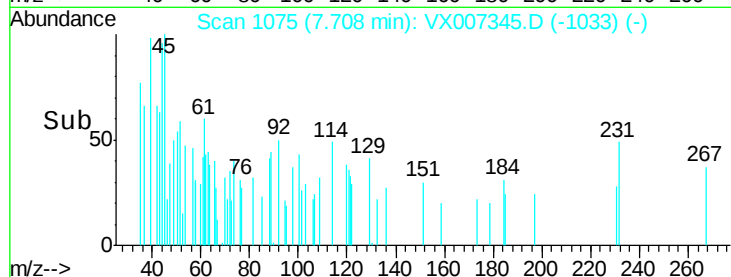
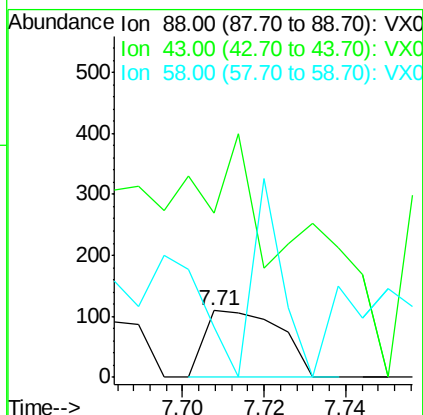
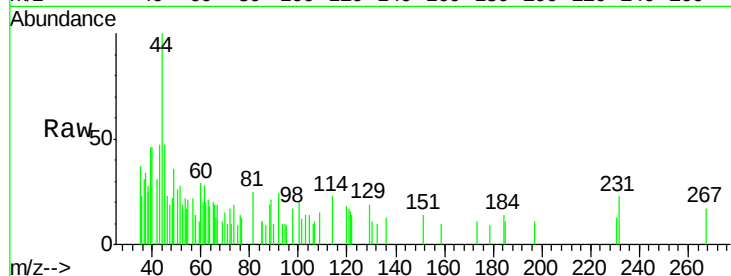




#49  
1,4-Dioxane  
Concen: 8.007 ug/l  
RT: 7.71 min Scan# 1075  
Delta R.T. -0.04 min  
Lab File: VX007345.D  
Acq: 01 Feb 2019 19:06

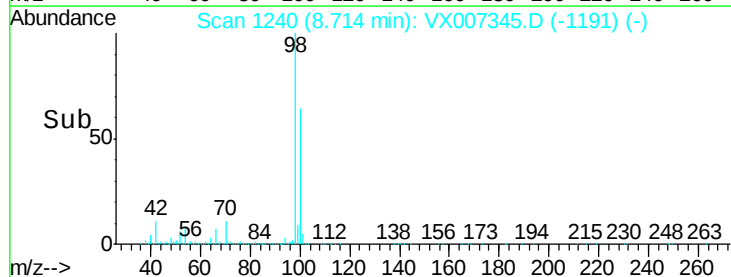
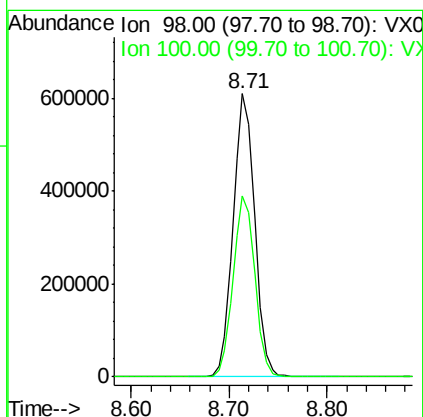
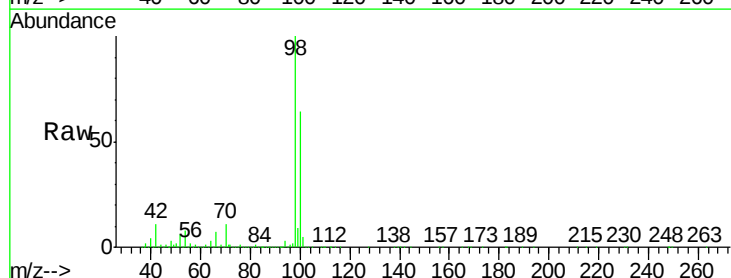
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-MW202S-20190129

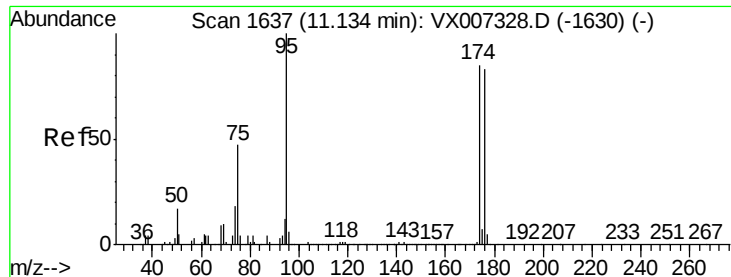
Tot Ion: 88 Resp: 140  
Ion Ratio Lower Upper  
88 100  
43 0.0 24.2 36.4#  
58 115.0 53.0 79.4#



#50  
Toluene-d8  
Concen: 50.070 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX007345.D  
Acq: 01 Feb 2019 19:06

Tgt Ion: 98 Resp: 935426  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.6 77.4

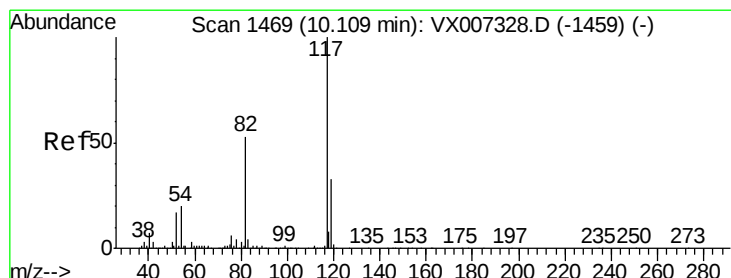
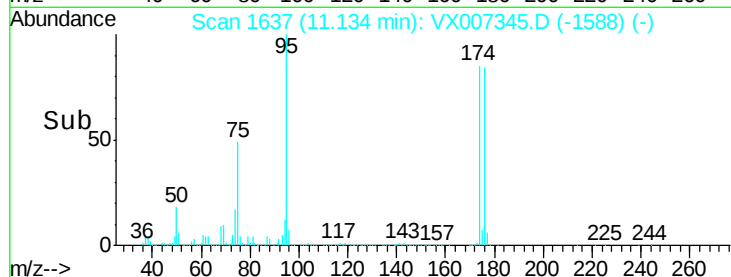
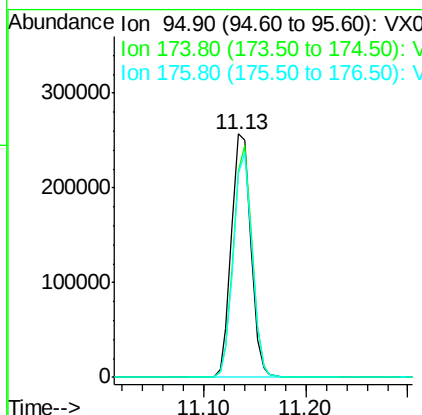
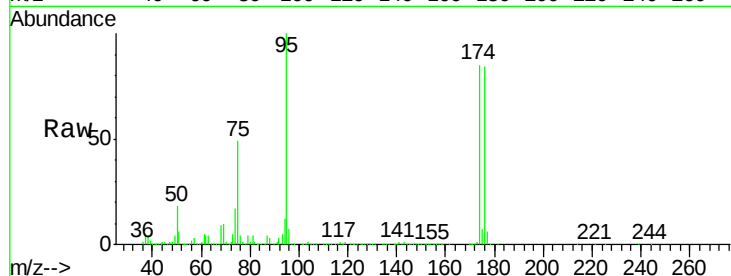




#62  
4-Bromofluorobenzene  
Concen: 49.516 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX007345.D  
Acq: 01 Feb 2019 19:06

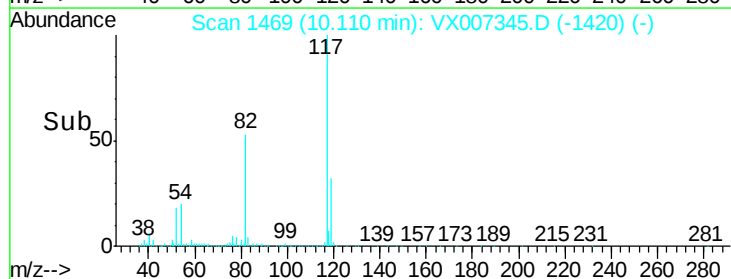
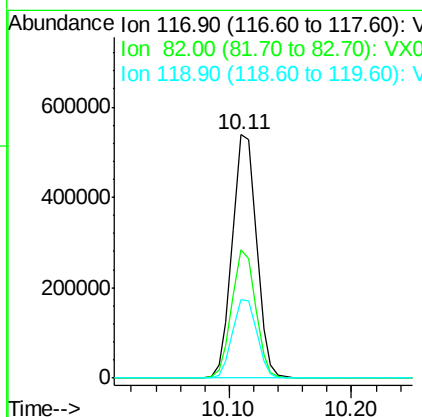
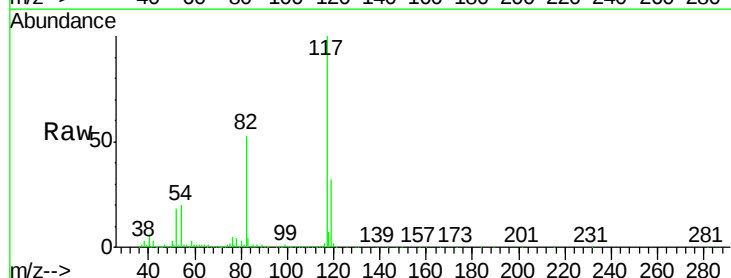
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-MW202S-20190129

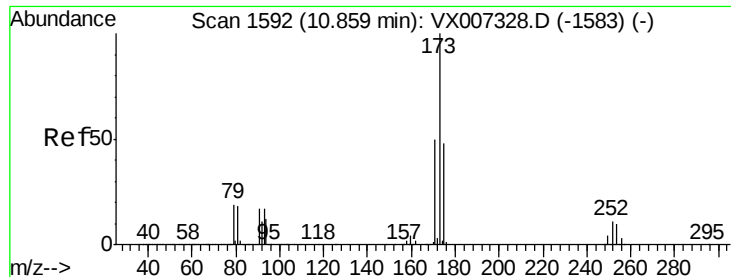
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 91.5  | 0.0   | 189.2 |
| 176     | 88.4  | 0.0   | 186.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX007345.D  
Acq: 01 Feb 2019 19:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.9  | 42.1  | 63.1  |
| 119     | 32.0  | 26.5  | 39.7  |





#71

Bromoform

Concen: 4.066 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-MW202S-20190129

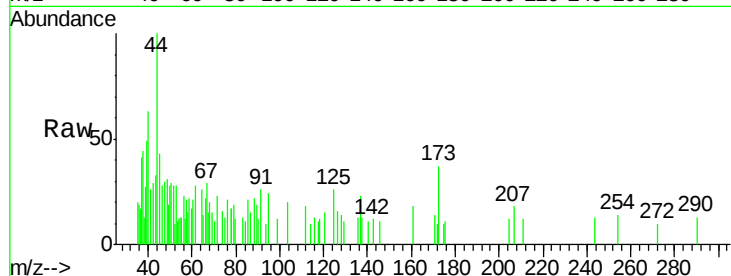
Tot Ion:173 Resp: 189

Ion Ratio Lower Upper

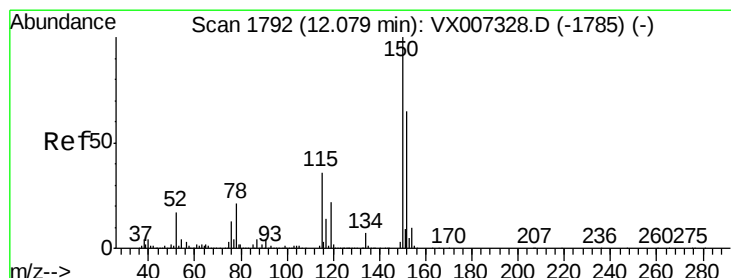
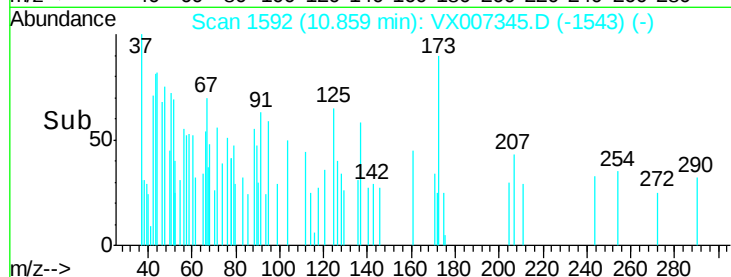
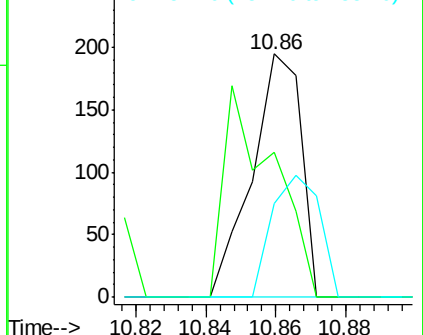
173 100

175 0.0 24.2 72.6#

254 49.2 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): 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: VX007345.D

Acq: 01 Feb 2019 19:06

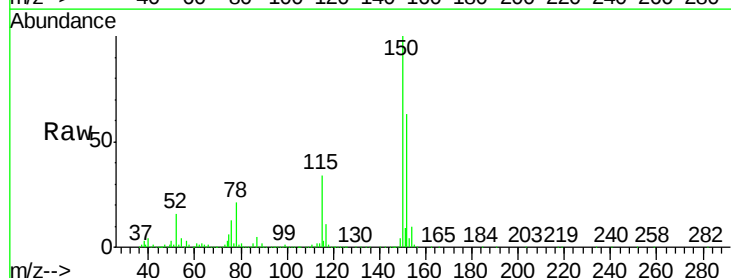
Tgt Ion:152 Resp: 363384

Ion Ratio Lower Upper

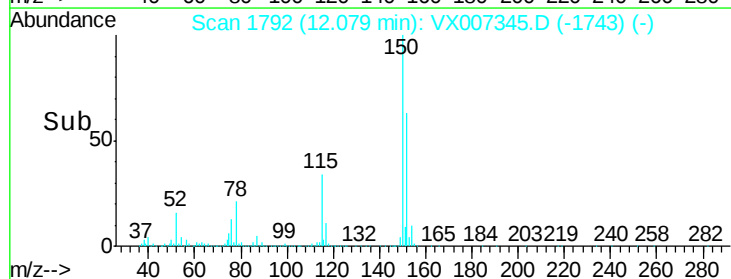
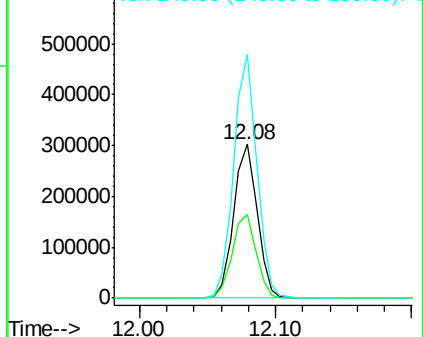
152 100

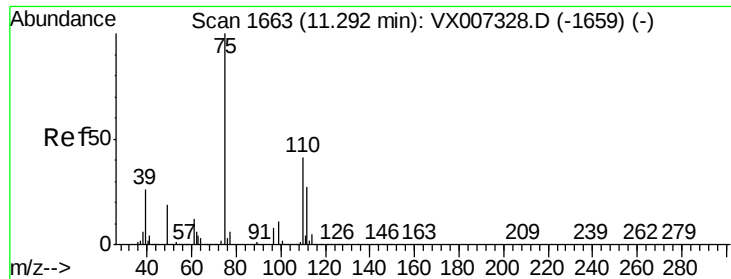
115 55.4 38.0 114.0

150 156.9 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: 22.654 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

Instrument :

MSVOA\_X

ClientSampleId :

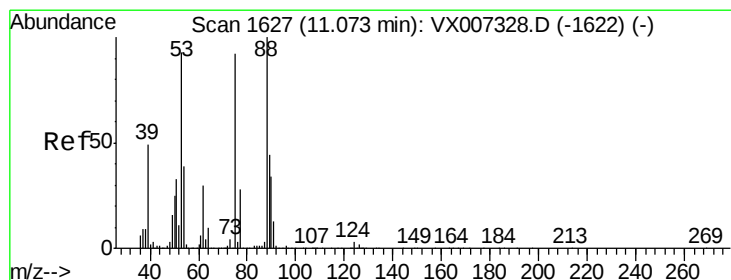
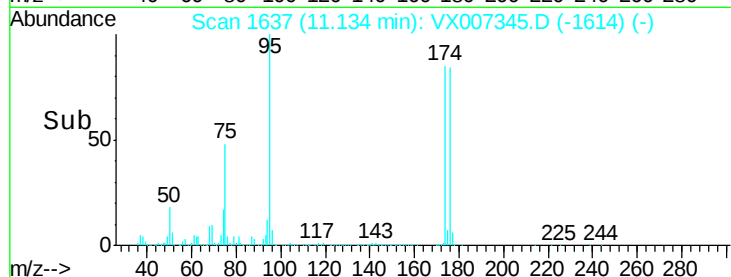
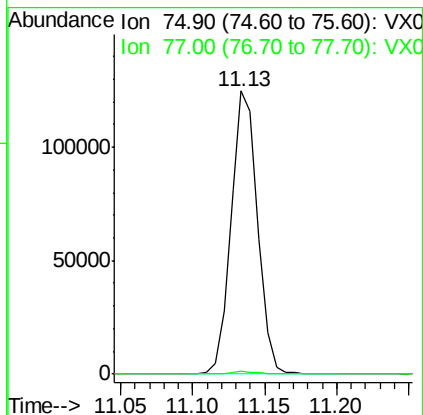
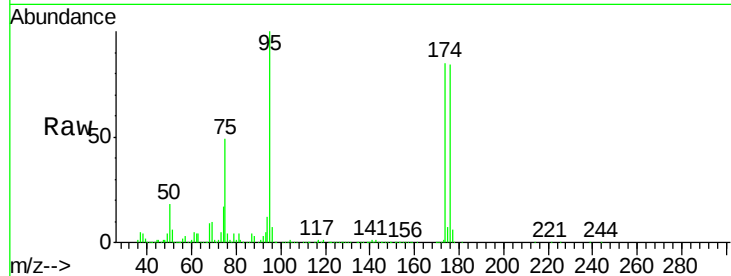
BP-TT-MW202S-20190129

Tot Ion: 75 Resp: 160122

Ion Ratio Lower Upper

75 100

77 1.3 23.0 69.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.327 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007345.D

Acq: 01 Feb 2019 19:06

Tgt Ion: 75 Resp: 160122

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.0 41.4 62.0#

