

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032419\  
 Data File : VX008398.D  
 Acq On : 24 Mar 2019 17:38  
 Operator : JC/SP  
 Sample : K1969-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPS1-TT-MW312S-20190315

Quant Time: Mar 25 05:47:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 15:27:34 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 217875   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 380494   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 328795   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 137930   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 161744   | 48.67 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.34% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 119254   | 48.37 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.74% |          |
| 50) Toluene-d8              | 8.71  | 98   | 480523   | 49.28 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.56% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 162497   | 45.39 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.78% |          |

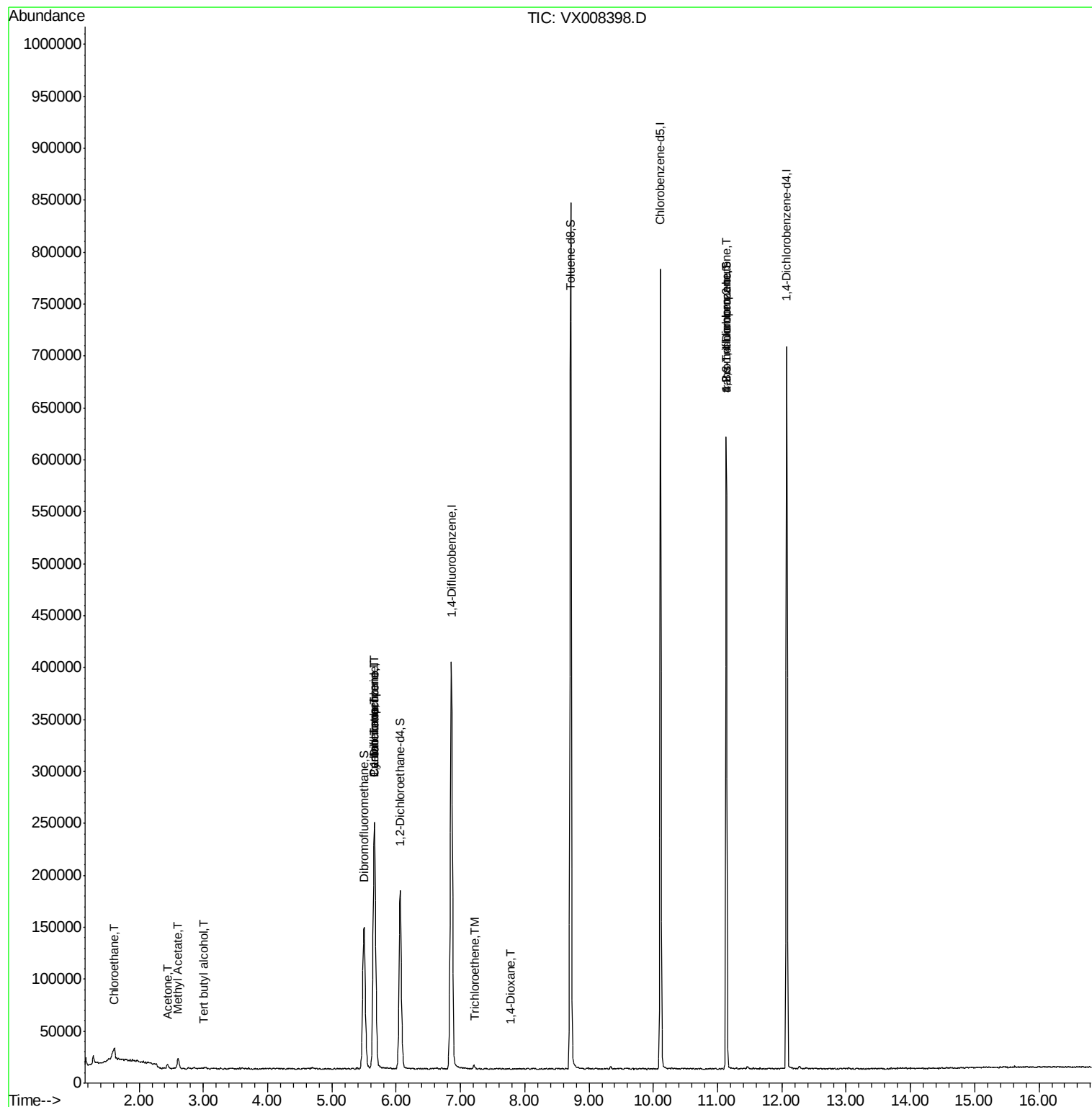
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 6) Chloroethane                | 1.60  | 64   | 17205    | 8.232  | ug/l # | 53     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 953      | 1.288  | ug/l # | 90     |
| 16) Acetone                    | 2.44  | 43   | 4338     | 2.612  | ug/l   | 94     |
| 18) Methyl Acetate             | 2.61  | 43   | 3313     | 0.797  | ug/l # | 55     |
| 31) Cyclohexane                | 5.65  | 56   | 5786     | 1.107  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 19293    | 4.962  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 22302    | 6.691  | ug/l # | 17     |
| 44) Trichloroethene            | 7.21  | 130  | 1264     | 0.460  | ug/l   | 86     |
| 49) 1,4-Dioxane                | 7.77  | 88   | 20       | 0.240  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 83278    | 23.067 | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 83278    | 65.734 | ug/l # | 12     |

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

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BPS1-TT-MW312S-20190315

Quant Time: Mar 25 05:47:24 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032319W.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 23 15:27:34 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008398.D

Acq: 24 Mar 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

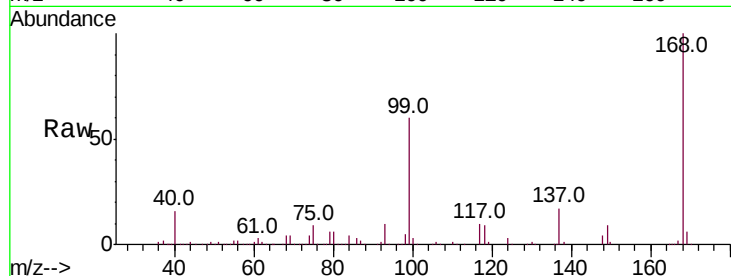
BPS1-TT-MW312S-20190315

Tot Ion:168 Resp: 217875

Ion Ratio Lower Upper

168 100

99 60.2 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

80000

60000

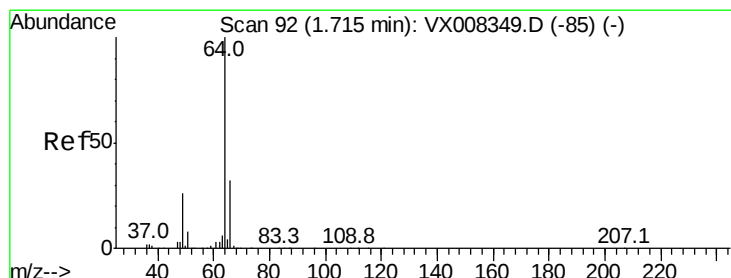
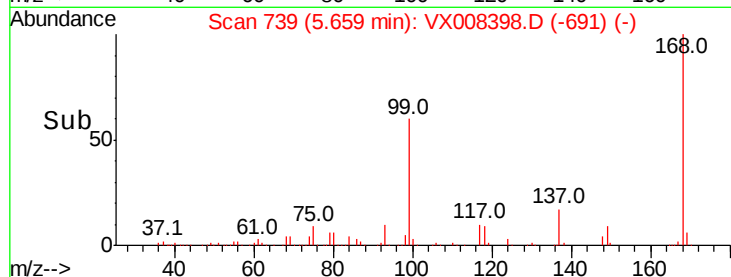
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#6

Chloroethane

Concen: 8.232 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX008398.D

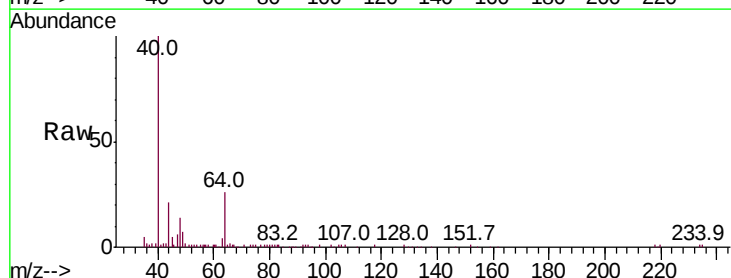
Acq: 24 Mar 2019 17:38

Tgt Ion: 64 Resp: 17205

Ion Ratio Lower Upper

64 100

66 5.7 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

4000

3000

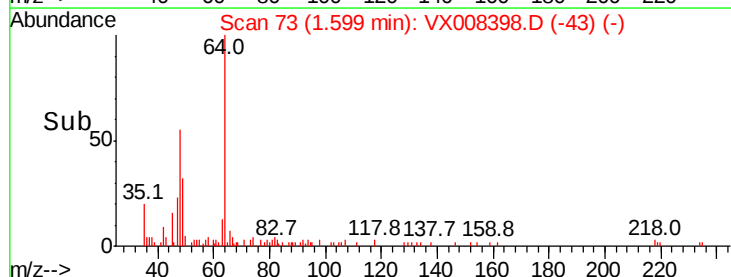
2000

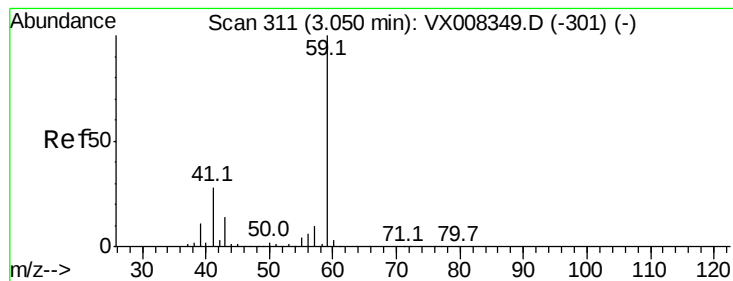
1000

0

1.40 1.50 1.60

Time-->



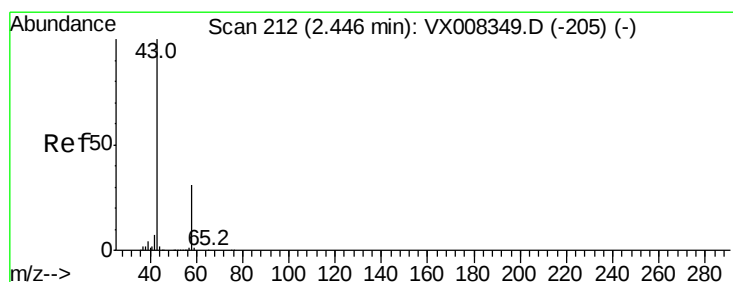
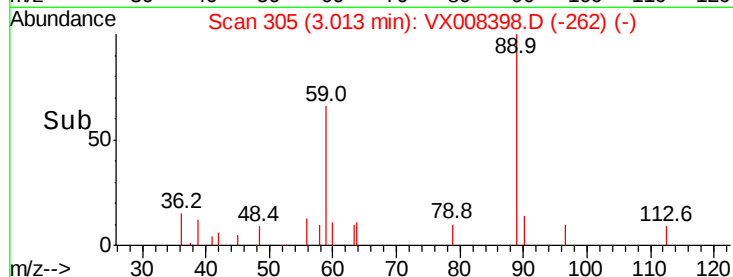
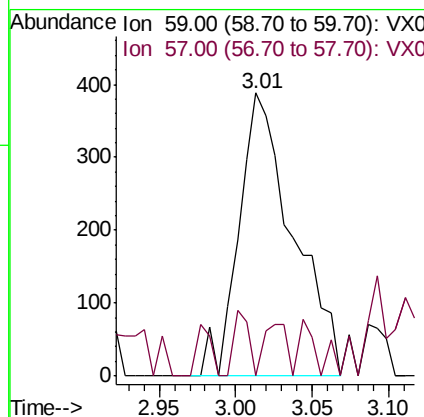
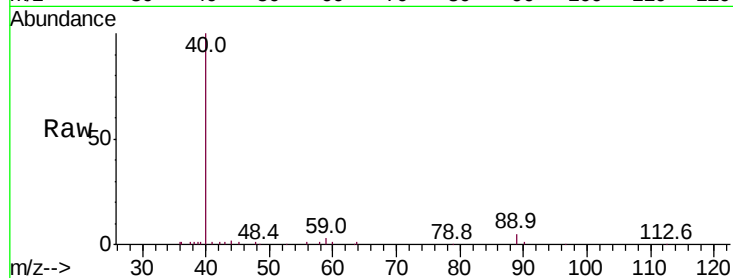


#11

Tert butyl alcohol  
 Concen: 1.288 ug/l  
 RT: 3.01 min Scan# 305  
 Delta R.T. -0.04 min  
 Lab File: VX008398.D  
 Acq: 24 Mar 2019 17:38

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPS1-TT-MW312S-20190315

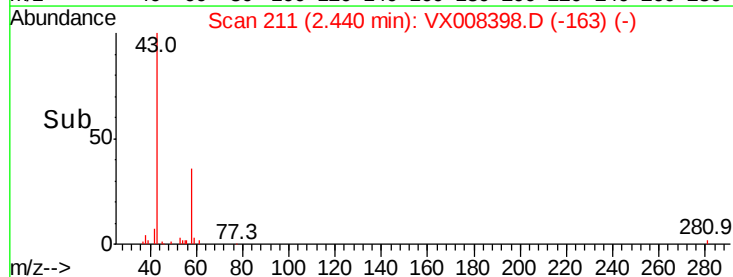
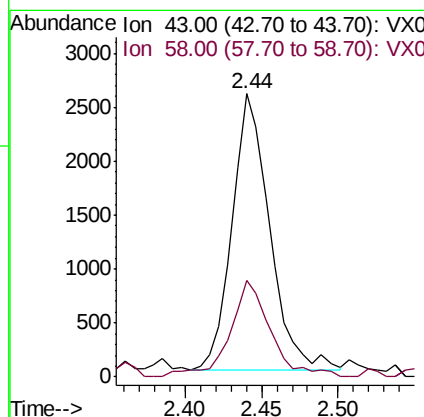
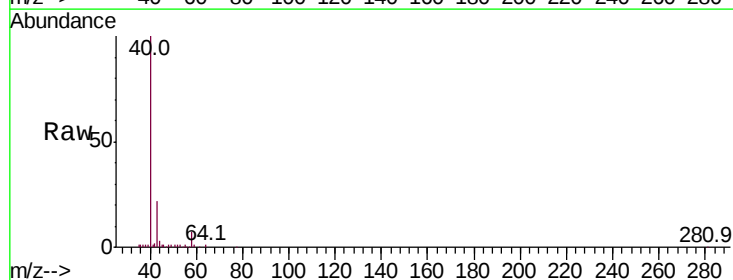
Tot Ion: 59 Resp: 953  
 Ion Ratio Lower Upper  
 59 100  
 57 6.3 8.2 12.2#

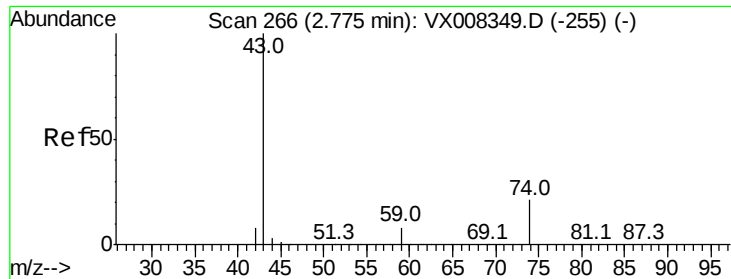


#16

Acetone  
 Concen: 2.612 ug/l  
 RT: 2.44 min Scan# 211  
 Delta R.T. -0.01 min  
 Lab File: VX008398.D  
 Acq: 24 Mar 2019 17:38

Tgt Ion: 43 Resp: 4338  
 Ion Ratio Lower Upper  
 43 100  
 58 35.0 25.5 38.3

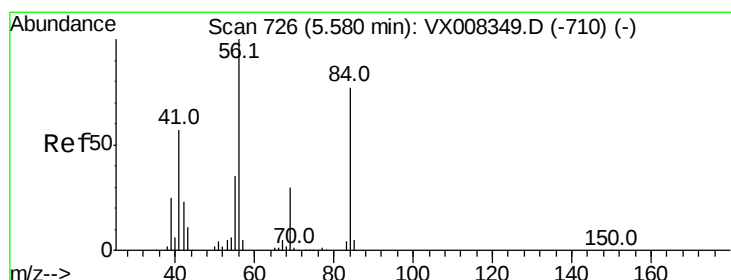
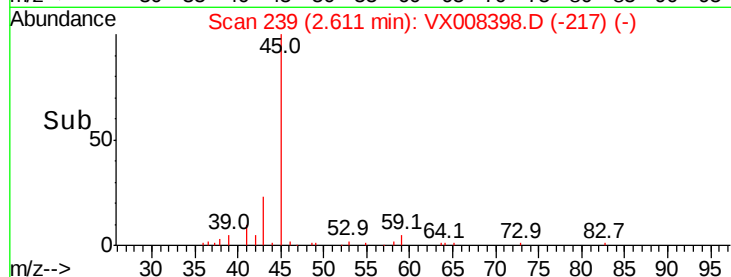
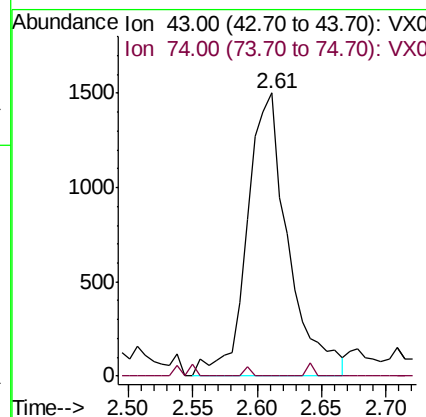
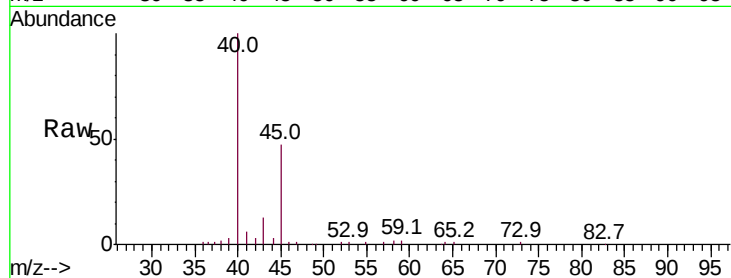




#18  
Methvl Acetate  
Concen: 0.797 ug/l  
RT: 2.61 min Scan# 239  
Delta R.T. -0.16 min  
Lab File: VX008398.D  
Acq: 24 Mar 2019 17:38

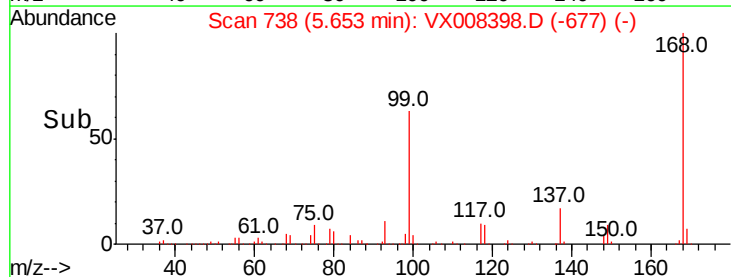
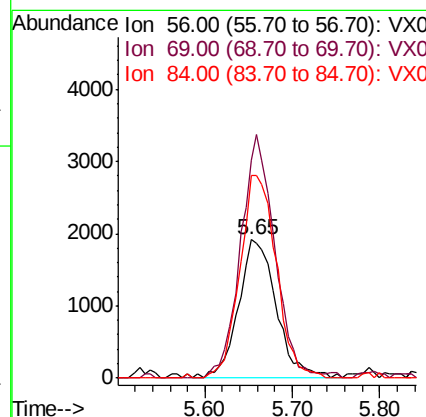
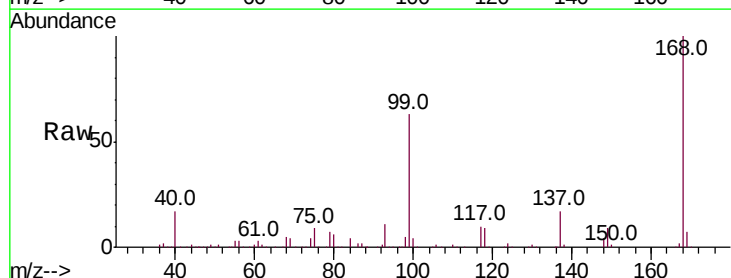
Instrument :  
MSVOA\_X  
ClientSampleId :  
BPS1-TT-MW312S-20190315

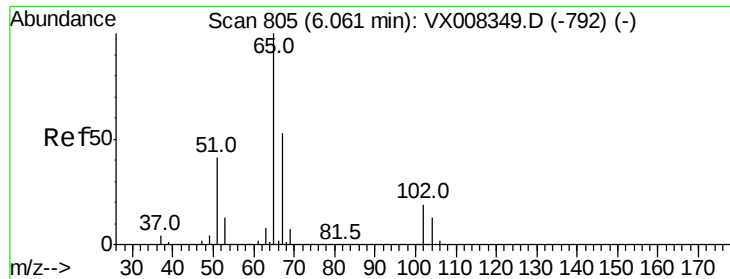
Tot Ion: 43 Resp: 3313  
Ion Ratio Lower Upper  
43 100  
74 0.6 17.8 26.6#



#31  
Cyclohexane  
Concen: 1.107 ug/l  
RT: 5.65 min Scan# 738  
Delta R.T. 0.07 min  
Lab File: VX008398.D  
Acq: 24 Mar 2019 17:38

Tgt Ion: 56 Resp: 5786  
Ion Ratio Lower Upper  
56 100  
69 157.8 24.0 36.0#  
84 146.2 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 48.674 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008398.D

Acq: 24 Mar 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

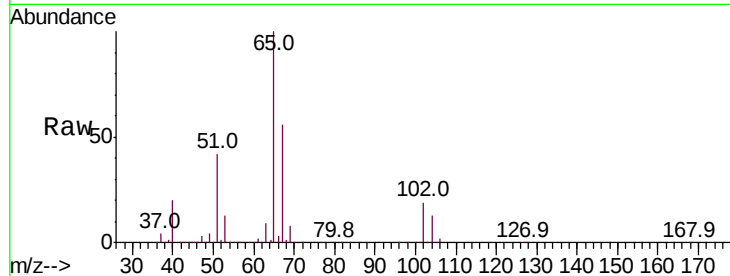
BPS1-TT-MW312S-20190315

Tot Ion: 65 Resp: 161744

Ion Ratio Lower Upper

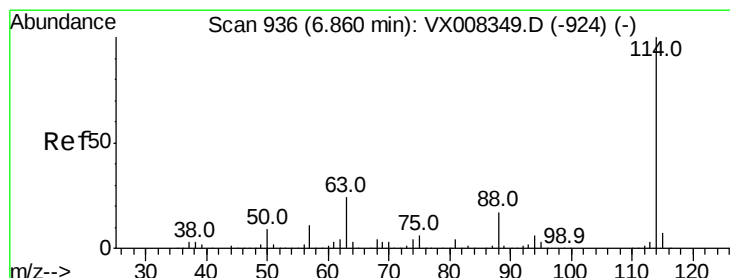
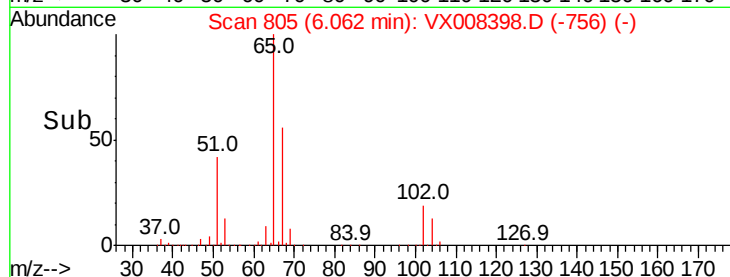
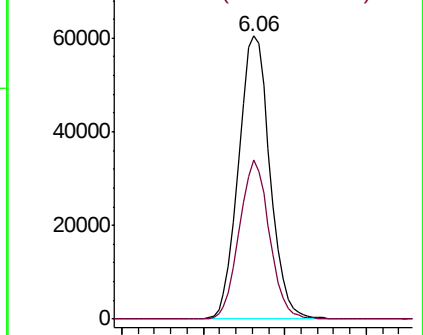
65 100

67 54.2 0.0 110.0



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: VX008398.D

Acq: 24 Mar 2019 17:38

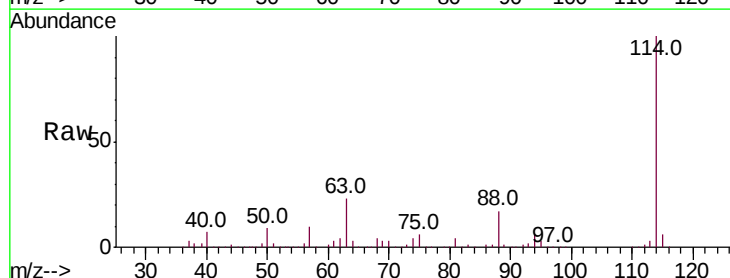
Tgt Ion:114 Resp: 380494

Ion Ratio Lower Upper

114 100

63 23.2 0.0 39.8

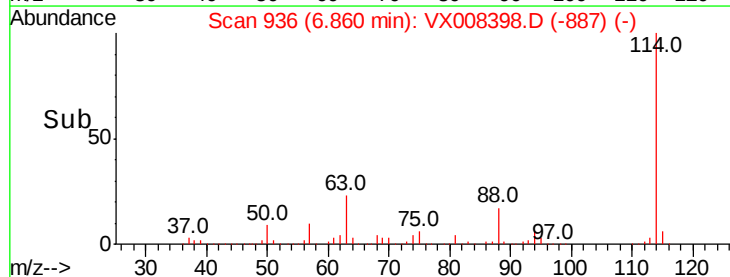
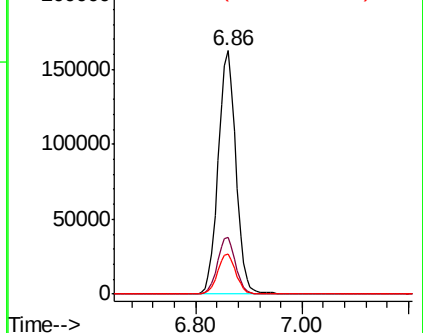
88 16.7 0.0 31.4

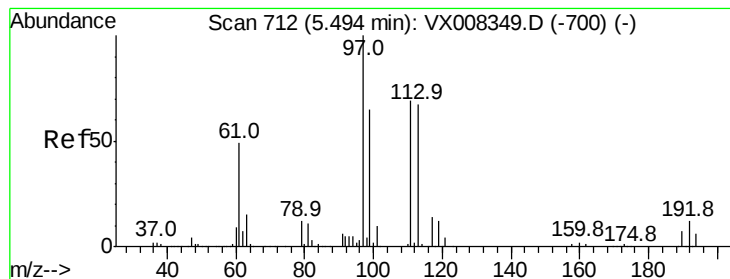


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.375 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008398.D

Acq: 24 Mar 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW312S-20190315

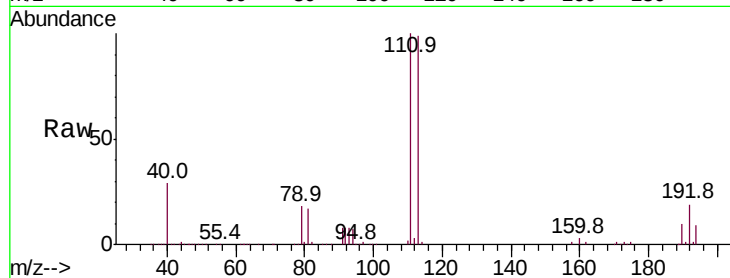
Tot Ion:113 Resp: 119254

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

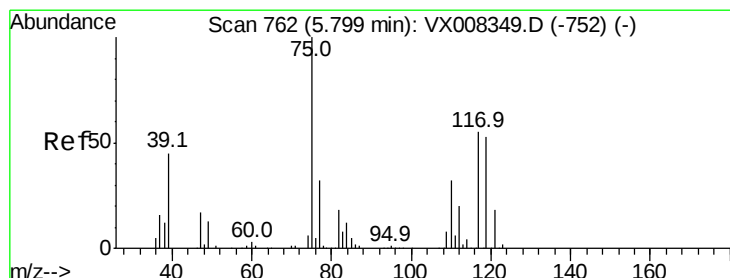
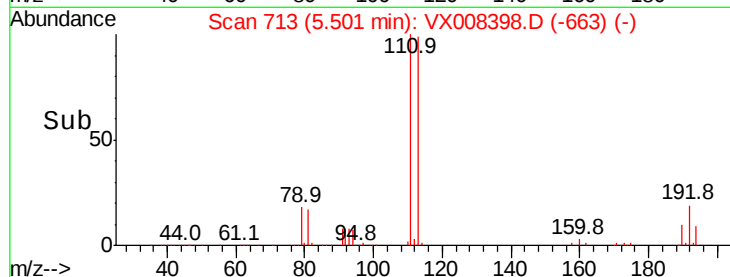
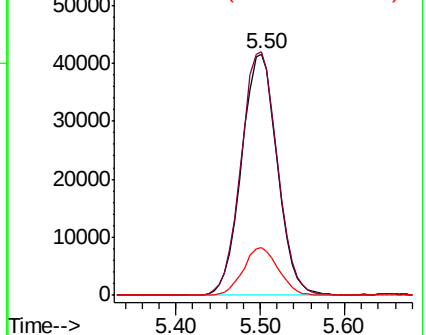
192 19.5 19.4 29.0



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: 4.962 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008398.D

Acq: 24 Mar 2019 17:38

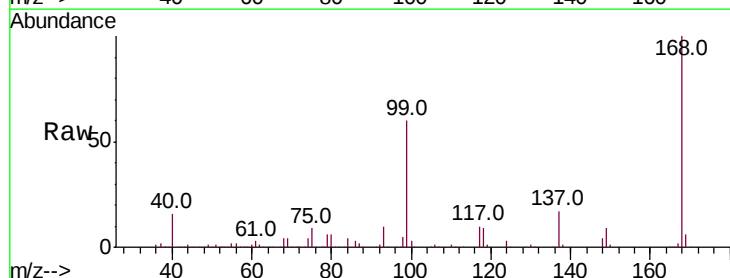
Tgt Ion: 75 Resp: 19293

Ion Ratio Lower Upper

75 100

110 8.4 18.4 55.0#

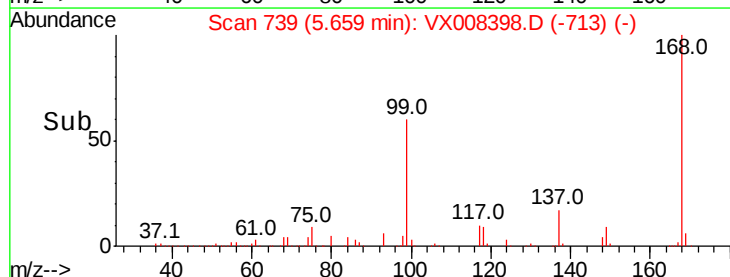
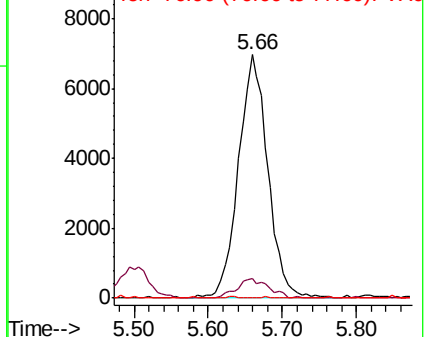
77 0.1 25.0 37.4#

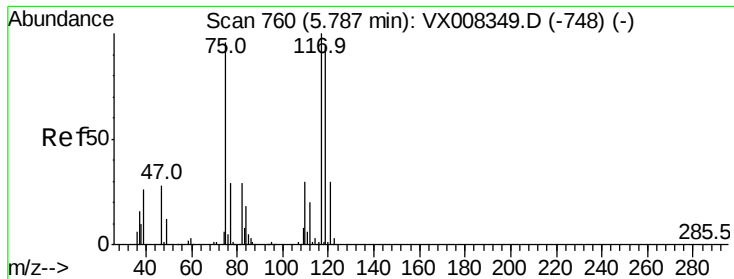


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.691 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008398.D

Acq: 24 Mar 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW312S-20190315

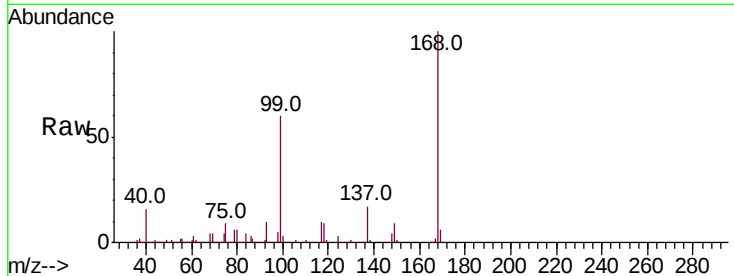
Tot Ion:117 Resp: 22302

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

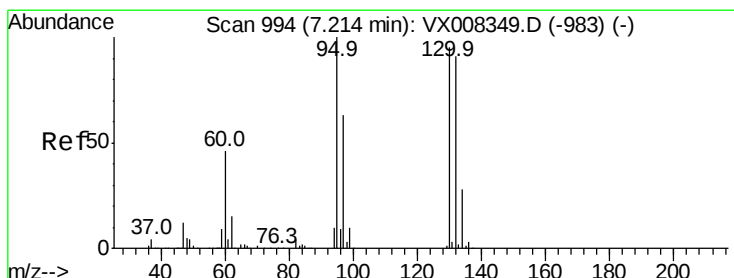
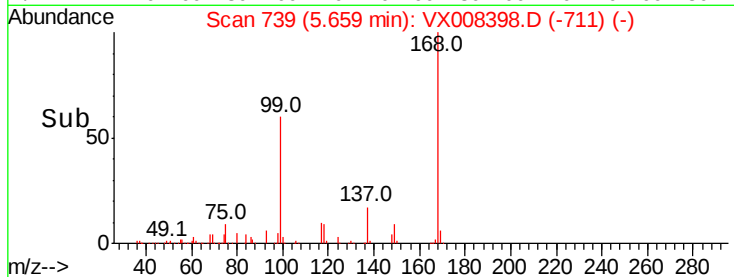
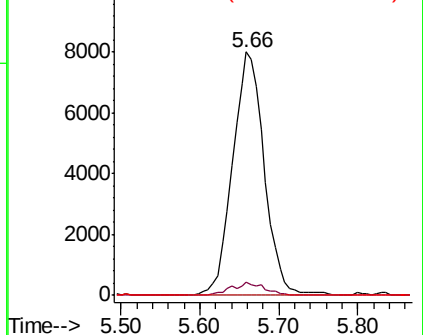
121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 0.460 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008398.D

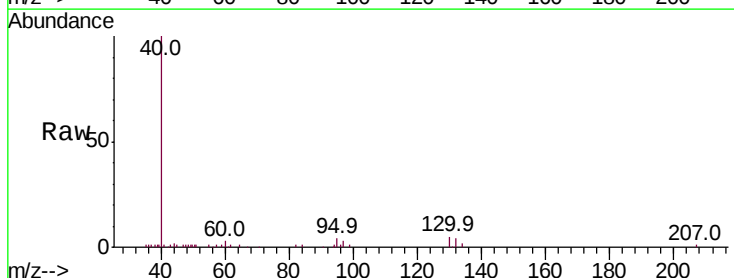
Acq: 24 Mar 2019 17:38

Tgt Ion:130 Resp: 1264

Ion Ratio Lower Upper

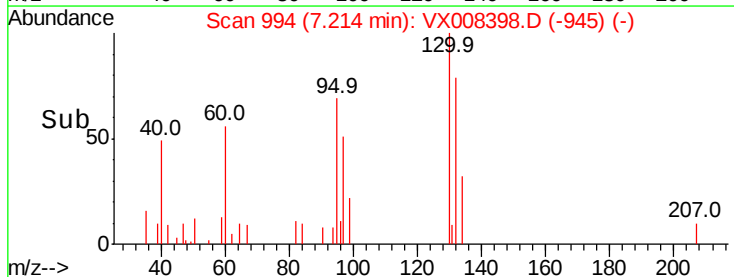
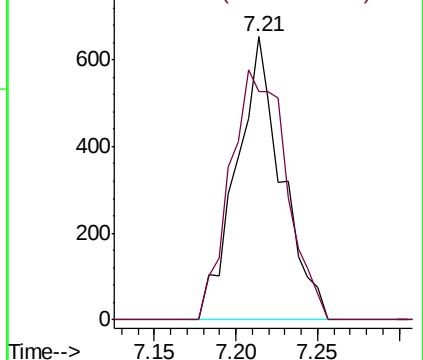
130 100

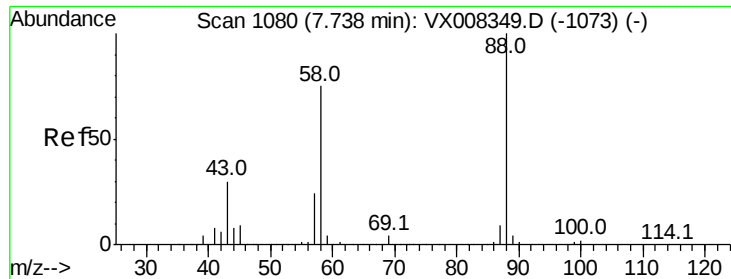
95 80.9 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 0.240 ug/l

RT: 7.77 min Scan# 1086

Delta R.T. 0.04 min

Lab File: VX008398.D

Acq: 24 Mar 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW312S-20190315

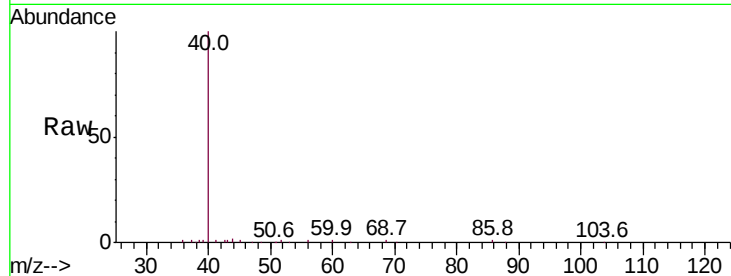
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 950.0 25.1 37.7#

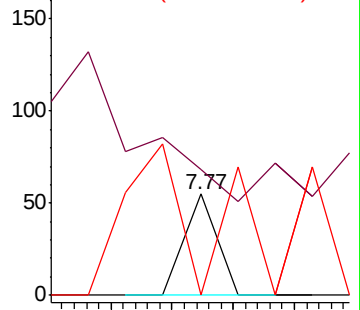
58 250.0 57.8 86.6#



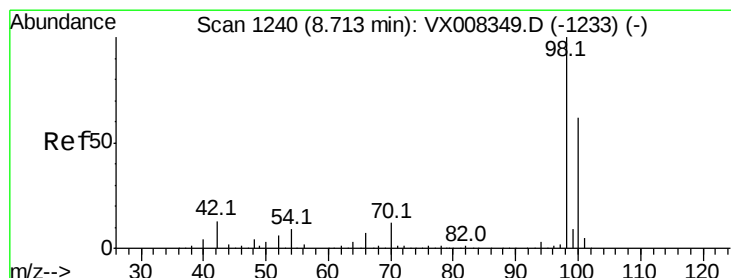
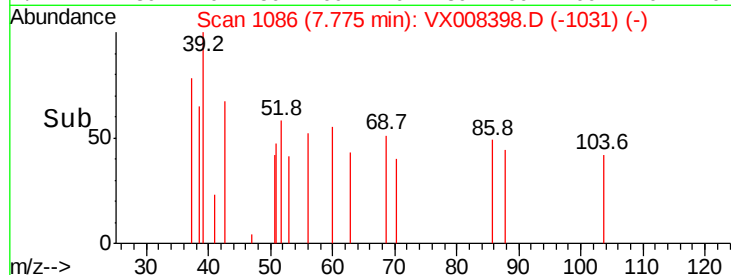
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 49.282 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008398.D

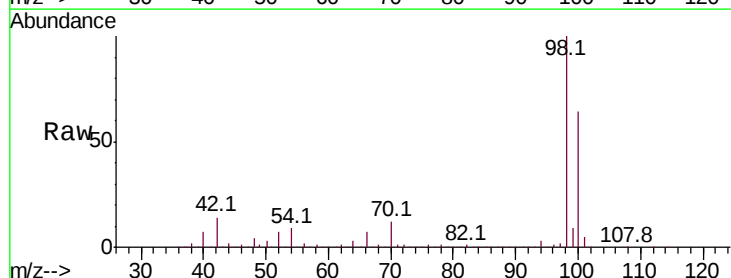
Acq: 24 Mar 2019 17:38

Tgt Ion: 98 Resp: 480523

Ion Ratio Lower Upper

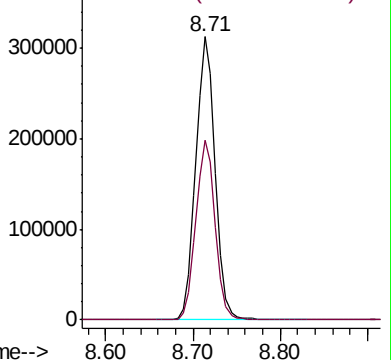
98 100

100 63.5 51.7 77.5

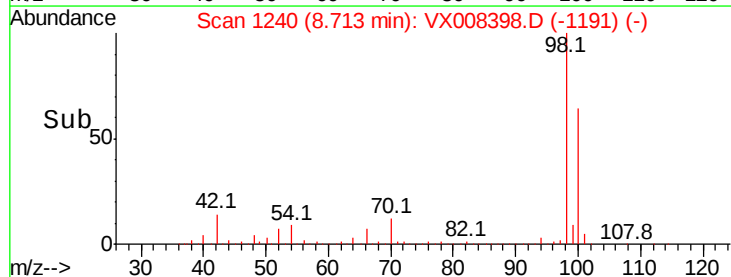


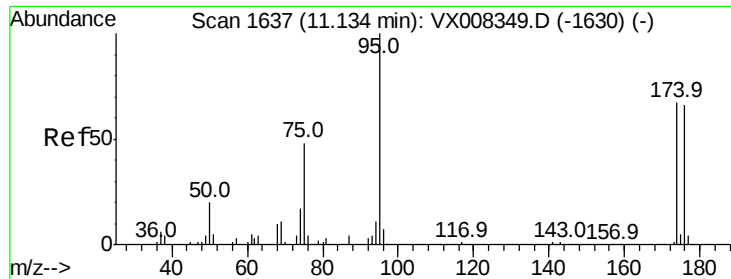
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->

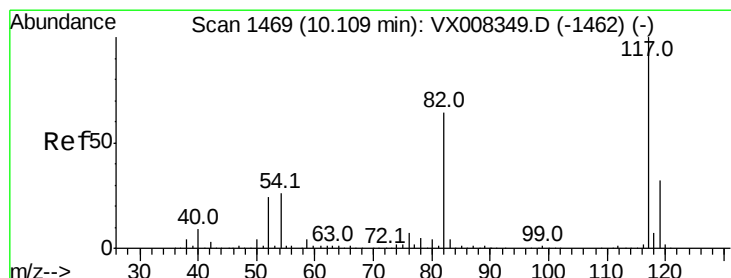
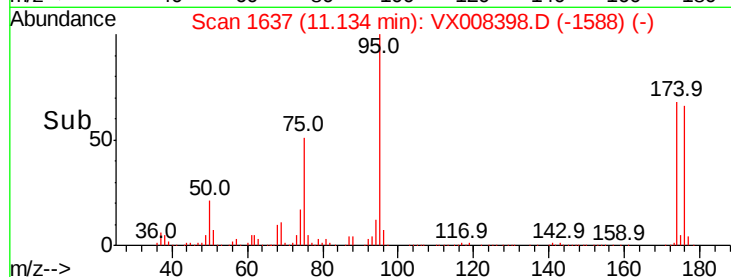
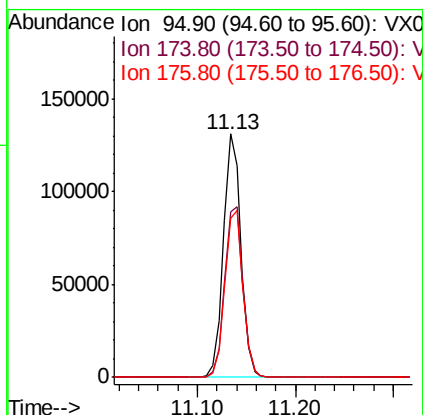
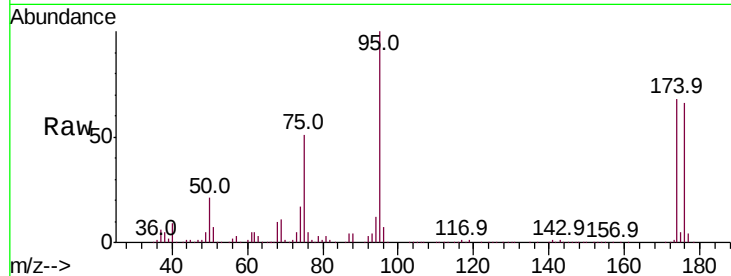




#62  
4-Bromofluorobenzene  
Concen: 45.390 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX008398.D  
Acq: 24 Mar 2019 17:38

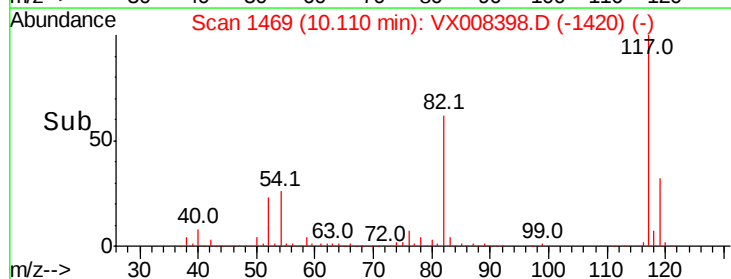
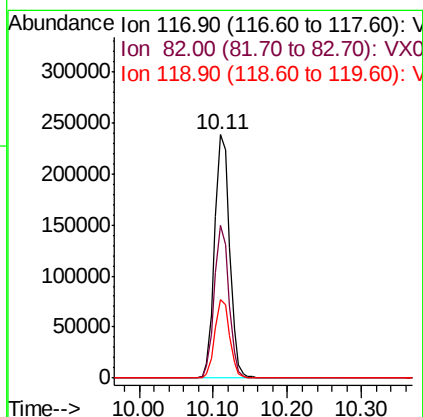
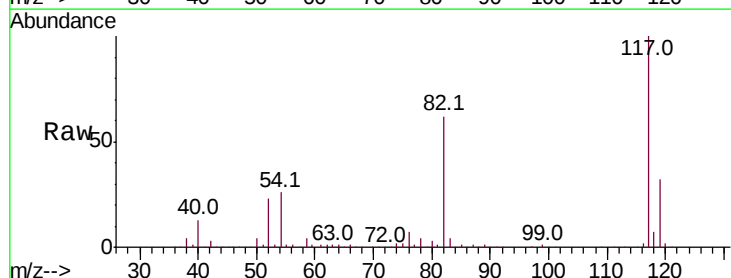
Instrument :  
MSVOA\_X  
ClientSampleId :  
BPS1-TT-MW312S-20190315

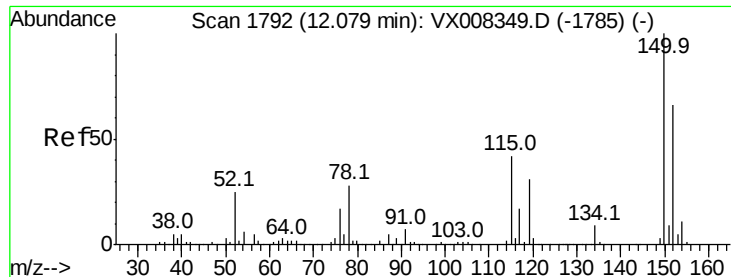
Tot Ion: 95 Resp: 162497  
Ion Ratio Lower Upper  
95 100  
174 73.1 0.0 182.8  
176 70.8 0.0 178.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX008398.D  
Acq: 24 Mar 2019 17:38

Tgt Ion: 117 Resp: 328795  
Ion Ratio Lower Upper  
117 100  
82 62.5 44.3 66.5  
119 32.3 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008398.D

Acq: 24 Mar 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW312S-20190315

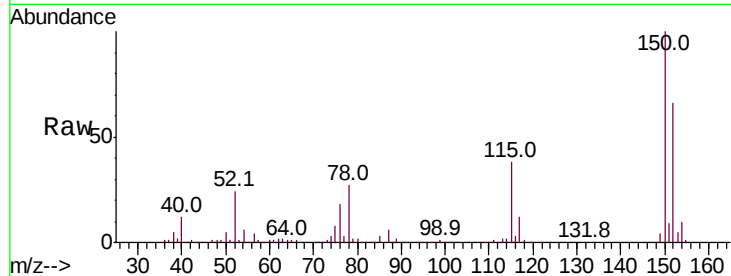
Tot Ion:152 Resp: 137930

Ion Ratio Lower Upper

152 100

115 60.3 38.6 115.7

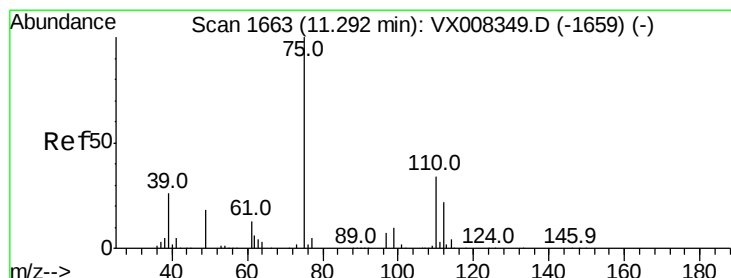
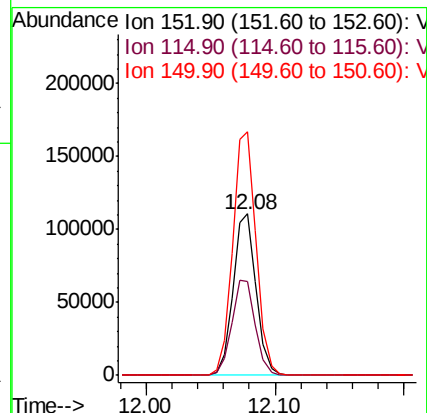
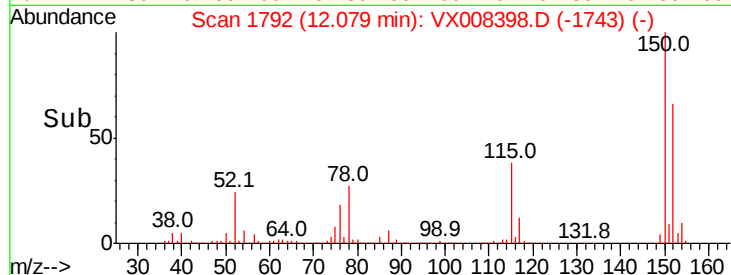
150 154.4 0.0 348.4



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: 23.067 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008398.D

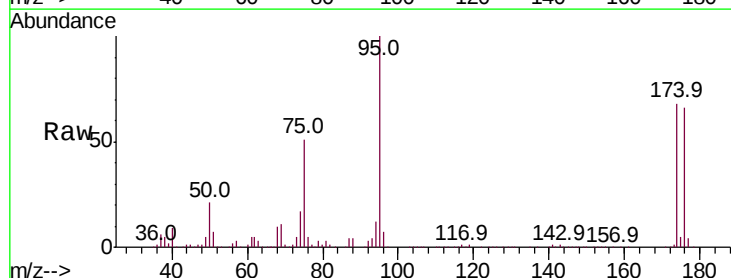
Acq: 24 Mar 2019 17:38

Tgt Ion: 75 Resp: 83278

Ion Ratio Lower Upper

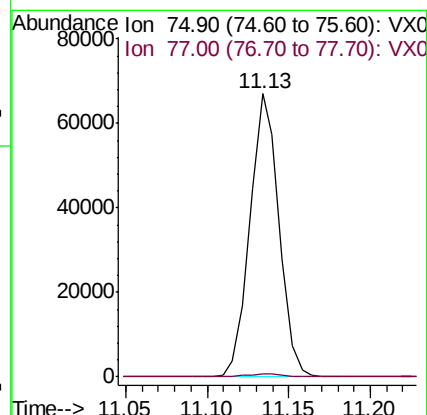
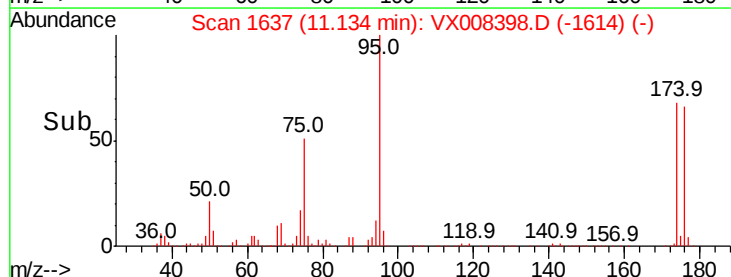
75 100

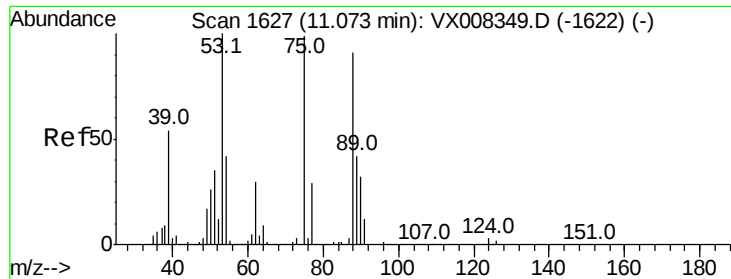
77 1.4 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.734 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008398.D

Acq: 24 Mar 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW312S-20190315

Tot Ion: 75 Resp: 83278

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.0 36.3 54.5#

