

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\  
 Data File : VX012845.D  
 Acq On : 07 Oct 2019 17:57  
 Operator : JC/SP  
 Sample : K5154-18  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-104I

Quant Time: Oct 08 11:13:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 180527   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 308875   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 266860   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 100419   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 118757   | 45.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.34%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 93314    | 50.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.46% |          |
| 50) Toluene-d8              | 8.71  | 98   | 364571   | 51.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.92% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 124695   | 44.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.54%  |          |

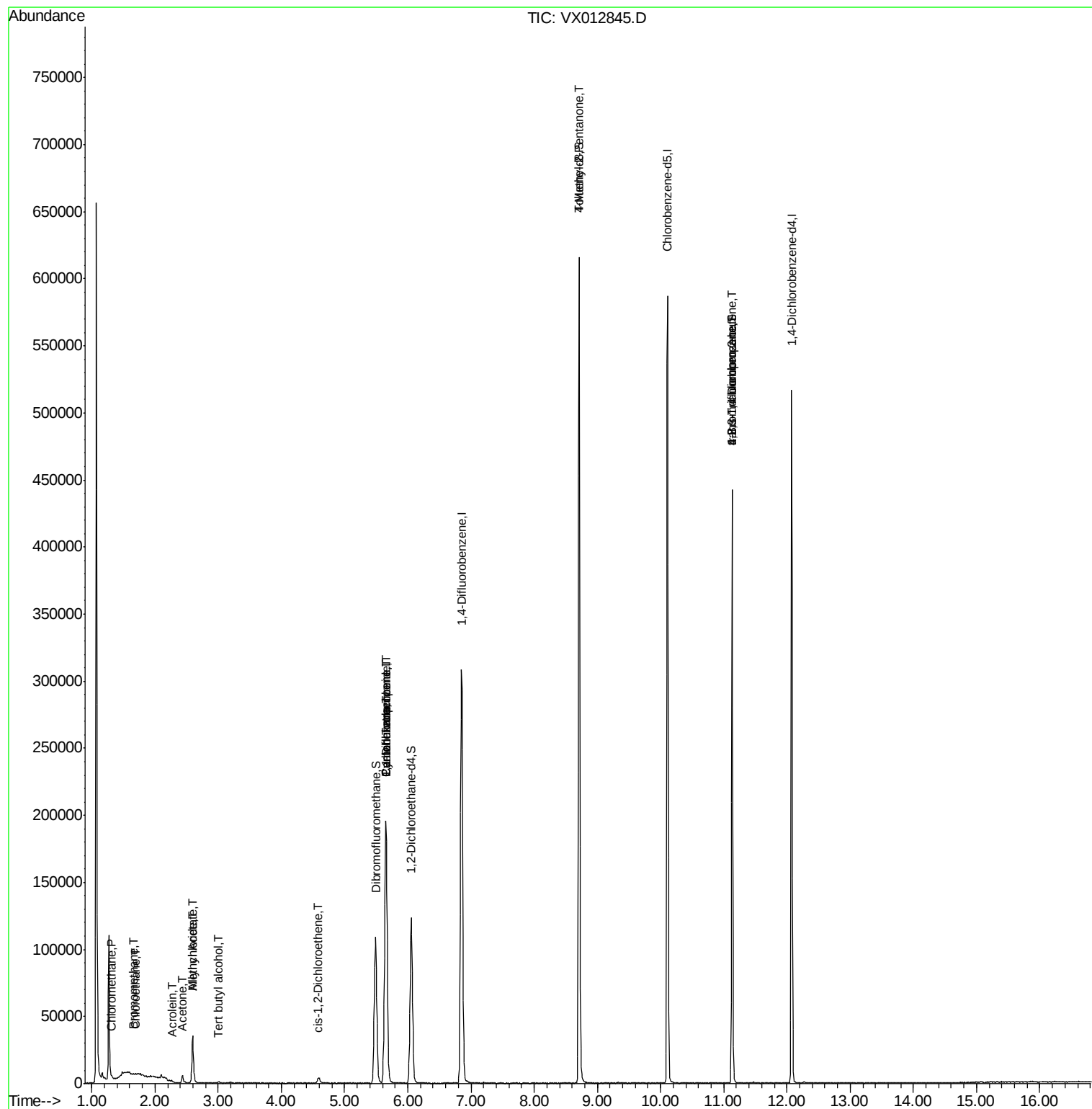
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 573      | 0.246  | ug/l # | 73     |
| 5) Bromomethane                | 1.66  | 94   | 412      | 0.452  | ug/l # | 40     |
| 6) Chloroethane                | 1.69  | 64   | 468      | 0.299  | ug/l # | 53     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 836      | 1.273  | ug/l # | 72     |
| 13) Acrolein                   | 2.28  | 56   | 63       | 10.398 | ug/l # | 55     |
| 14) Allyl chloride             | 2.59  | 41   | 3550     | 0.922  | ug/l # | 59     |
| 16) Acetone                    | 2.44  | 43   | 6121     | 4.396  | ug/l   | 92     |
| 18) Methyl Acetate             | 2.59  | 43   | 9400     | 2.867  | ug/l # | 54     |
| 27) cis-1,2-Dichloroethene     | 4.58  | 96   | 2738     | 1.097  | ug/l   | 88     |
| 31) Cyclohexane                | 5.66  | 56   | 3938     | 1.076  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 14925    | 5.013  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 19287    | 6.377  | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 8.71  | 43   | 1725     | 0.480  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 62462    | 23.514 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 62462    | 67.387 | ug/l # | 8      |

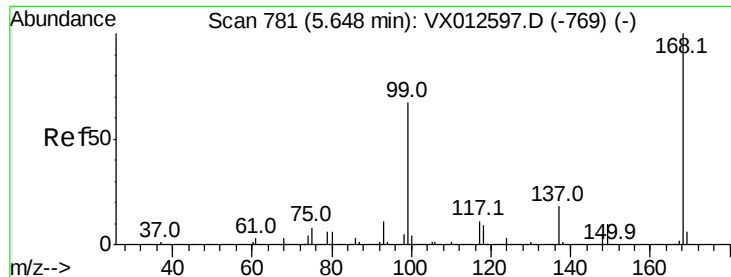
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX100719\  
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Instrument :  
MSVOA\_X  
ClientSampleID :  
MW-104I

Quant Time: Oct 08 11:13:18 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 23 12:27:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012845.D

Acq: 07 Oct 2019 17:57

Instrument :

MSVOA\_X

ClientSampleId :

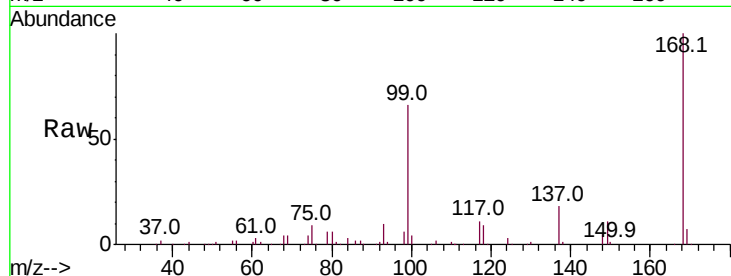
MW-104I

Tot Ion:168 Resp: 180527

Ion Ratio Lower Upper

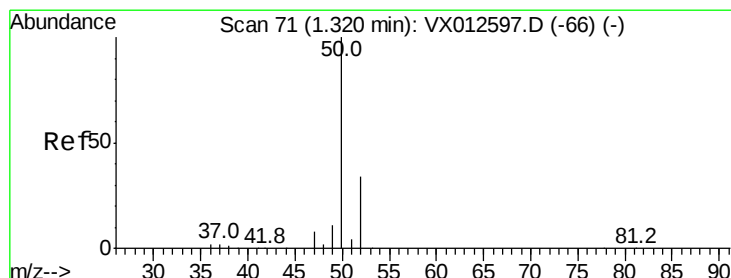
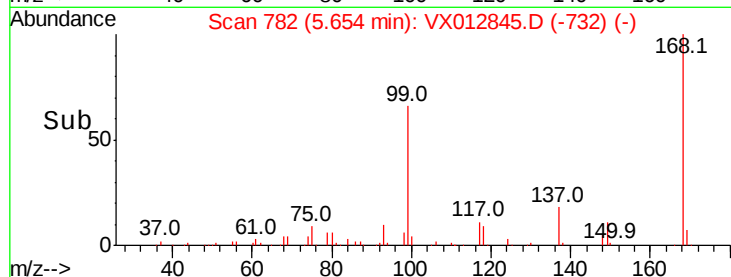
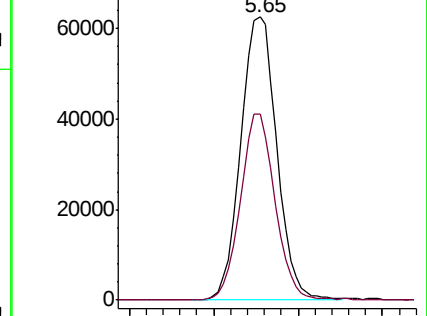
168 100

99 65.7 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.246 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012845.D

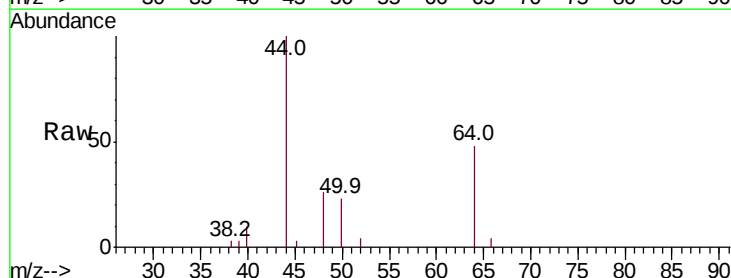
Acq: 07 Oct 2019 17:57

Tgt Ion: 50 Resp: 573

Ion Ratio Lower Upper

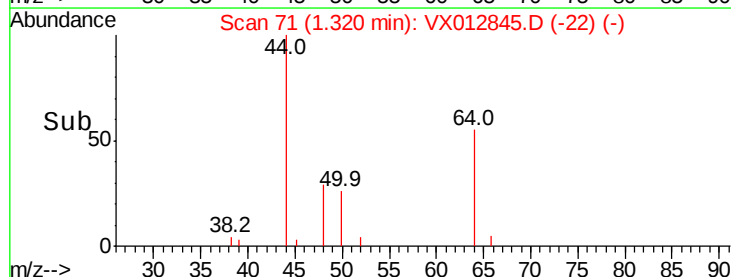
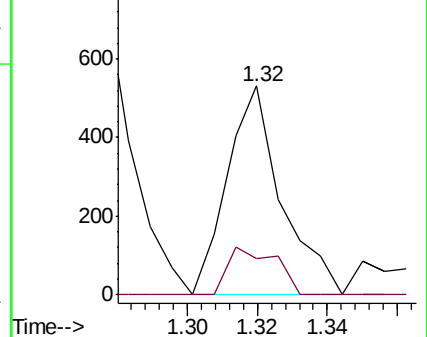
50 100

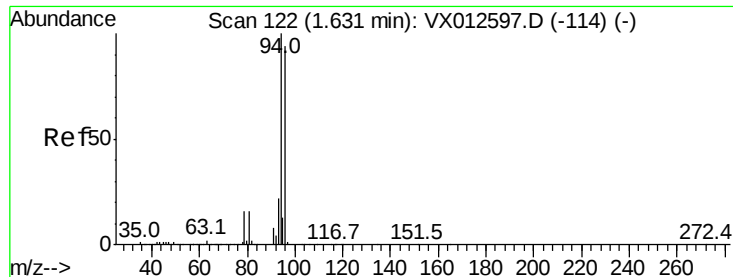
52 17.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.452 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.03 min

Lab File: VX012845.D

Acq: 07 Oct 2019 17:57

Instrument :

MSVOA\_X

ClientSampleId :

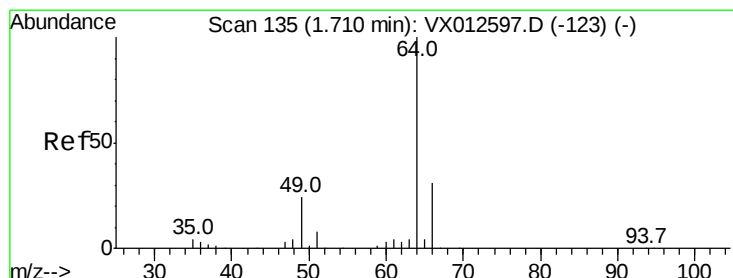
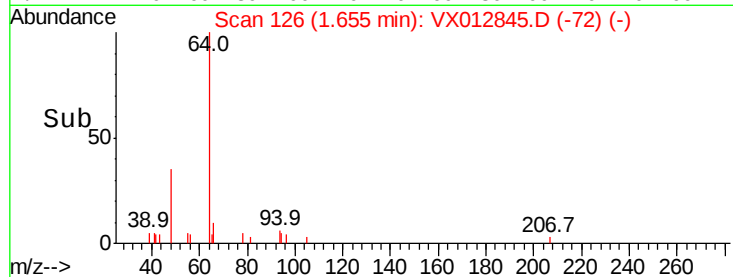
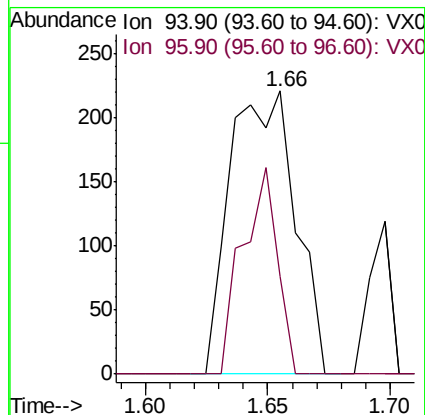
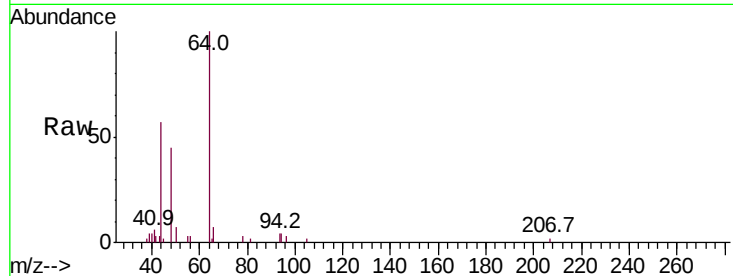
MW-104I

Tot Ion: 94 Resp: 412

Ion Ratio Lower Upper

94 100

96 34.4 72.8 109.2#



#6

Chloroethane

Concen: 0.299 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX012845.D

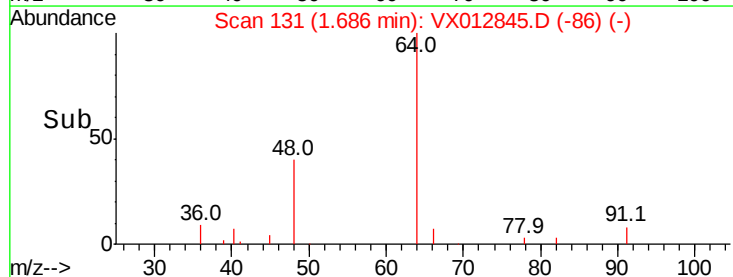
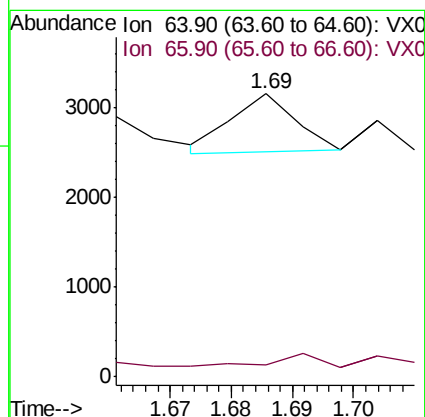
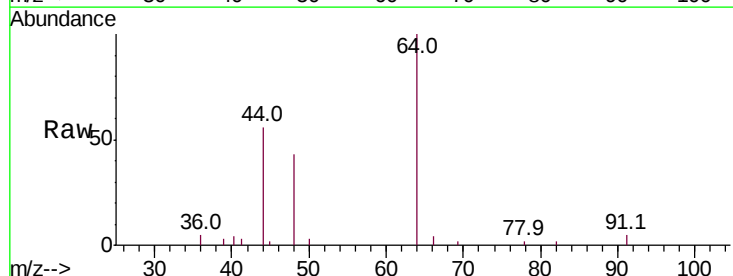
Acq: 07 Oct 2019 17:57

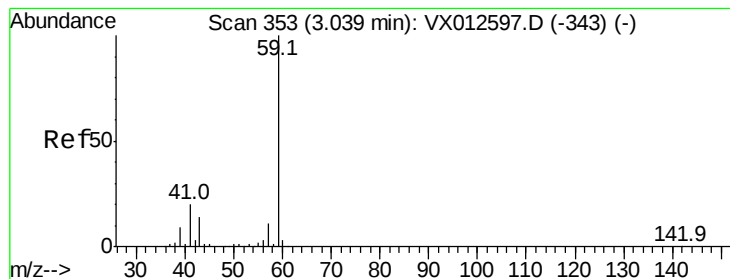
Tgt Ion: 64 Resp: 468

Ion Ratio Lower Upper

64 100

66 4.7 24.0 36.0#



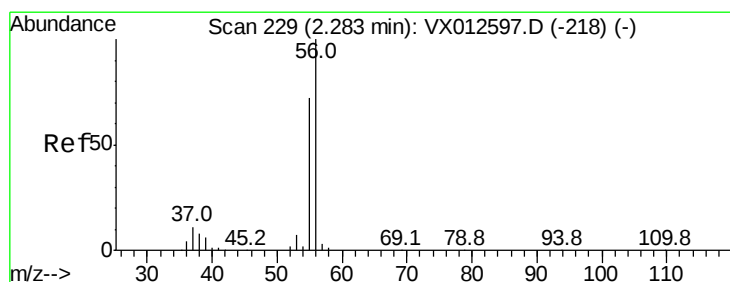
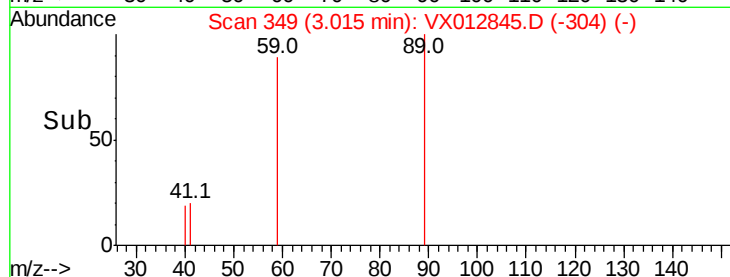
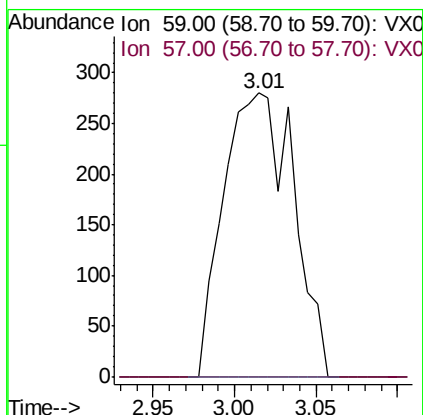
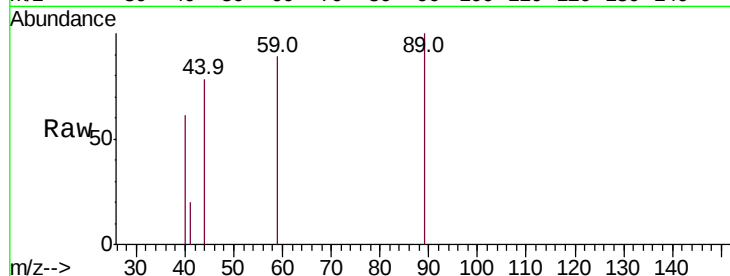


#11

Tert butyl alcohol  
 Concen: 1.273 ug/l  
 RT: 3.01 min Scan# 349  
 Delta R.T. -0.02 min  
 Lab File: VX012845.D  
 Acq: 07 Oct 2019 17:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-104I

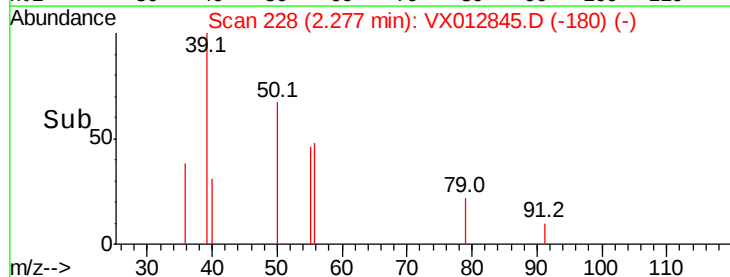
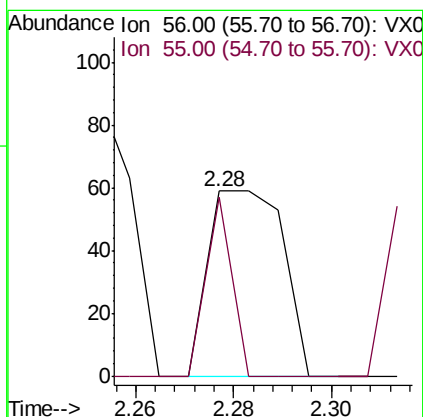
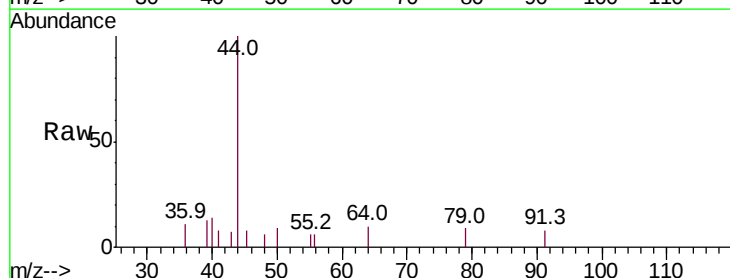
Tot Ion: 59 Resp: 836  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.3 12.5#

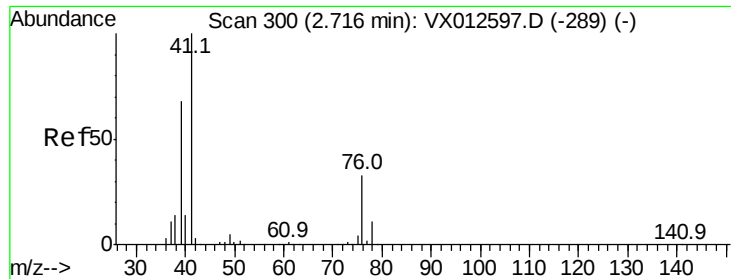


#13

Acrolein  
 Concen: 10.398 ug/l  
 RT: 2.28 min Scan# 228  
 Delta R.T. -0.01 min  
 Lab File: VX012845.D  
 Acq: 07 Oct 2019 17:57

Tgt Ion: 56 Resp: 63  
 Ion Ratio Lower Upper  
 56 100  
 55 33.3 55.8 83.8#

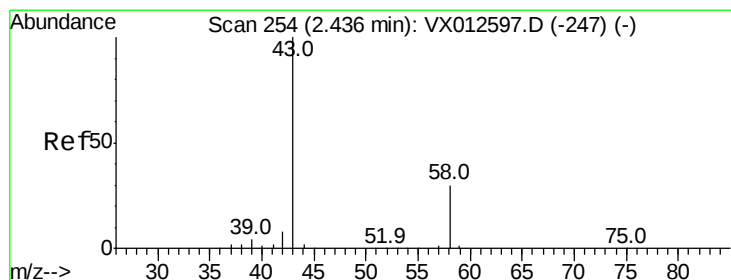
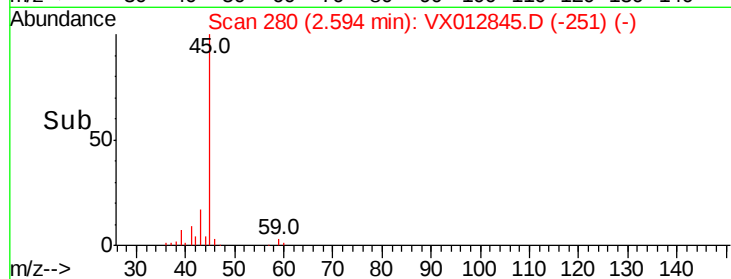
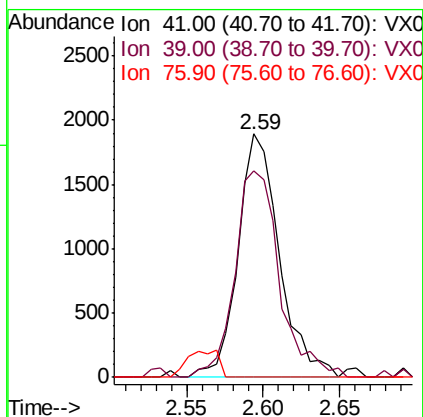
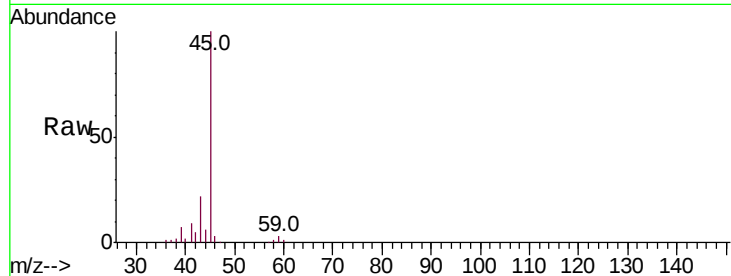




#14  
Allv1 chloride  
Concen: 0.922 ug/l  
RT: 2.59 min Scan# 280  
Delta R.T. -0.12 min  
Lab File: VX012845.D  
Acq: 07 Oct 2019 17:57

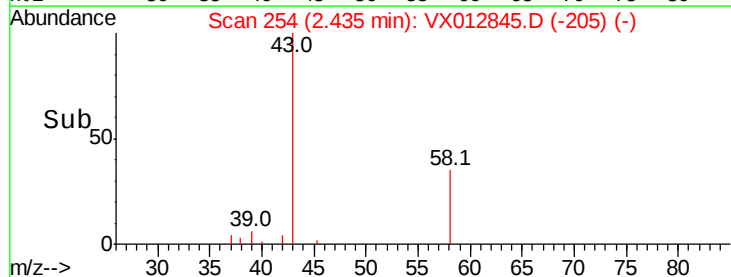
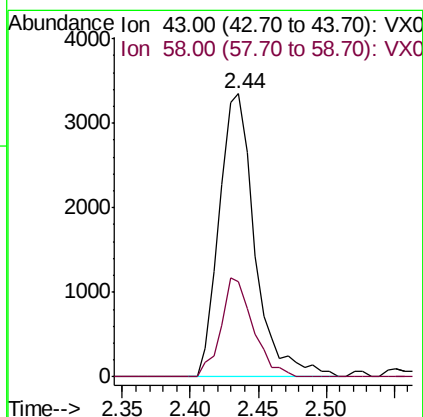
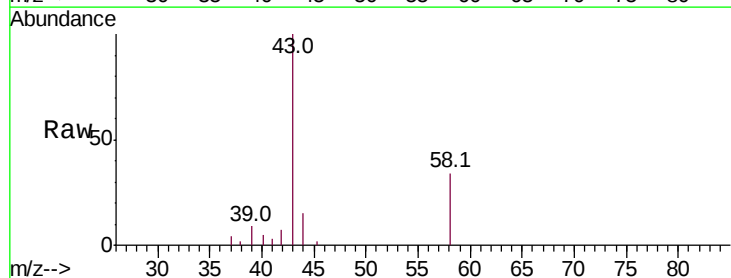
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-104I

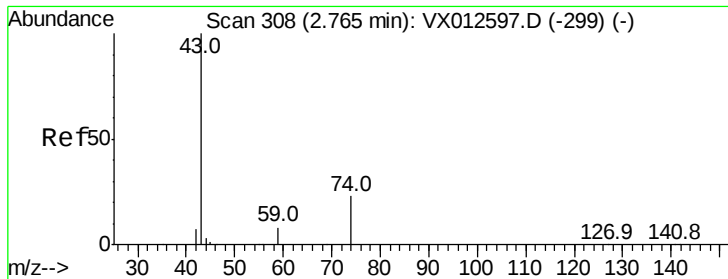
Tot Ion: 41 Resp: 3550  
Ion Ratio Lower Upper  
41 100  
39 91.9 51.3 76.9#  
76 0.0 22.6 33.8#



#16  
Acetone  
Concen: 4.396 ug/l  
RT: 2.44 min Scan# 254  
Delta R.T. 0.00 min  
Lab File: VX012845.D  
Acq: 07 Oct 2019 17:57

Tgt Ion: 43 Resp: 6121  
Ion Ratio Lower Upper  
43 100  
58 33.6 23.3 34.9

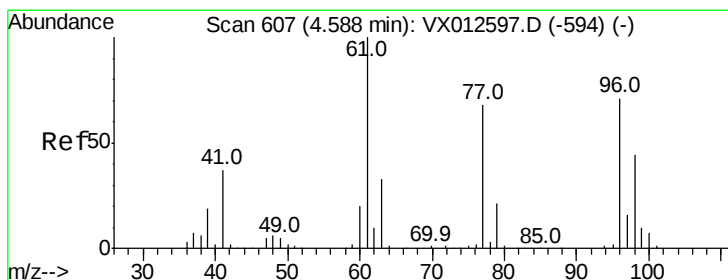
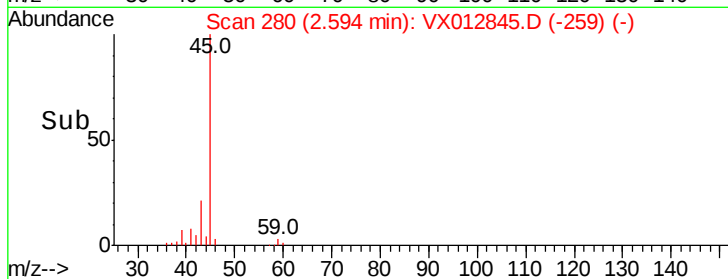
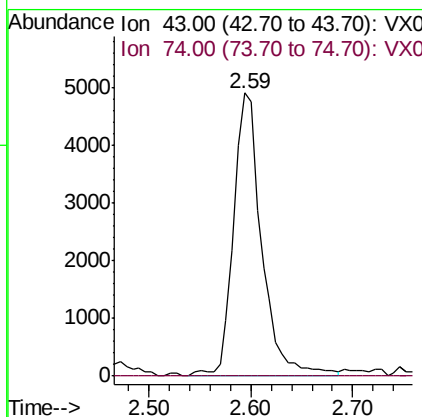
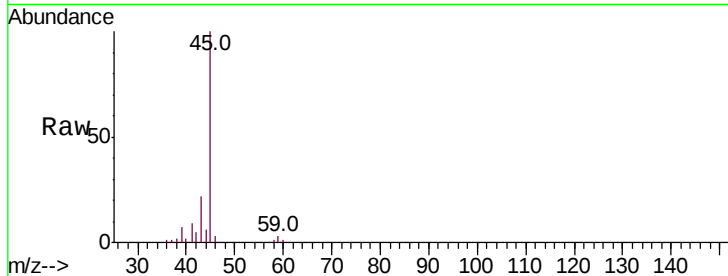




#18  
Methvl Acetate  
Concen: 2.867 ug/l  
RT: 2.59 min Scan# 280  
Delta R.T. -0.17 min  
Lab File: VX012845.D  
Acq: 07 Oct 2019 17:57

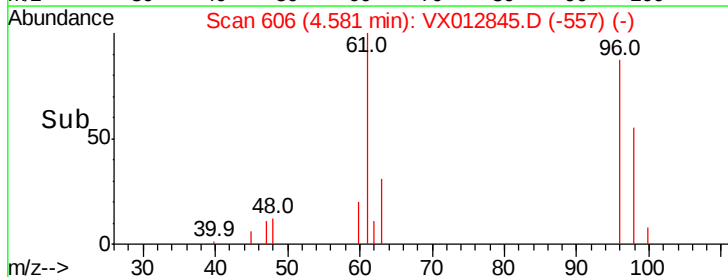
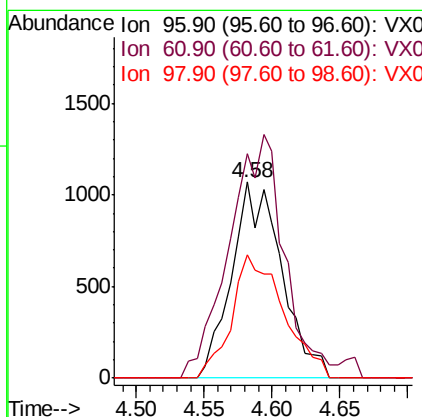
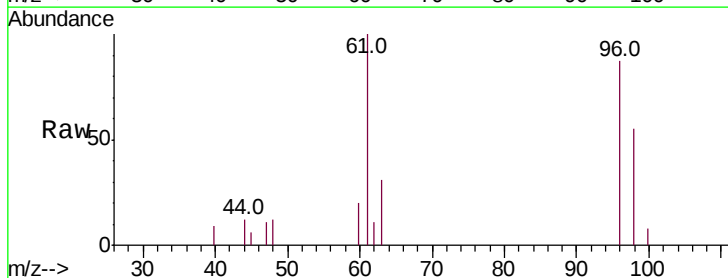
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-104I

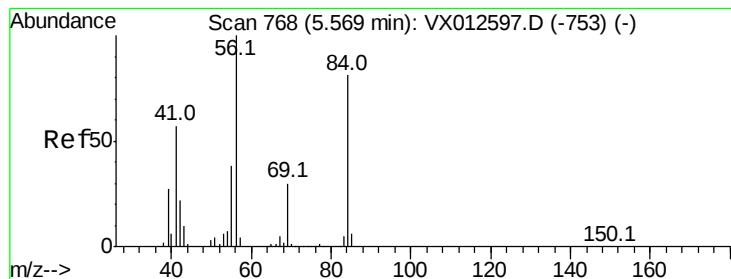
Tot Ion: 43 Resp: 9400  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.7 26.5#



#27  
cis-1,2-Dichloroethene  
Concen: 1.097 ug/l  
RT: 4.58 min Scan# 606  
Delta R.T. -0.00 min  
Lab File: VX012845.D  
Acq: 07 Oct 2019 17:57

Tgt Ion: 96 Resp: 2738  
Ion Ratio Lower Upper  
96 100  
61 137.4 0.0 319.4  
98 65.6 0.0 130.6





#31

Cyclohexane

Concen: 1.076 ug/l

RT: 5.66 min Scan# 783

Delta R.T. 0.09 min

Lab File: VX012845.D

Acq: 07 Oct 2019 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-104I

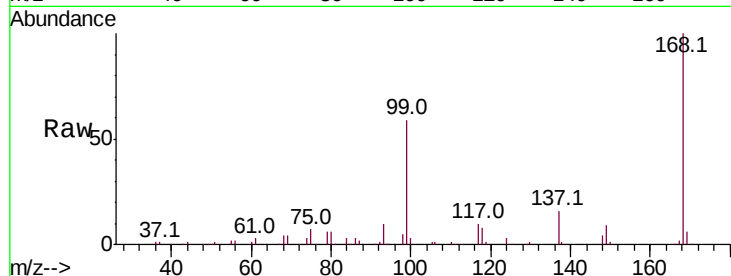
Tot Ion: 56 Resp: 3938

Ion Ratio Lower Upper

56 100

69 172.2 25.0 37.6#

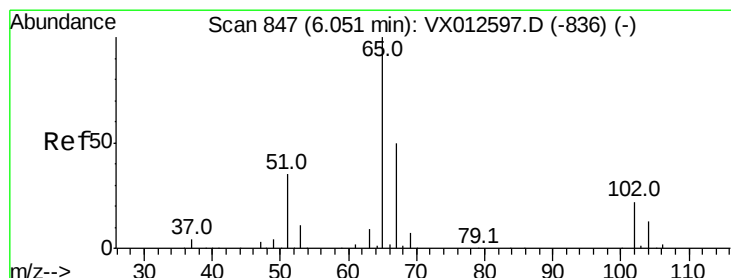
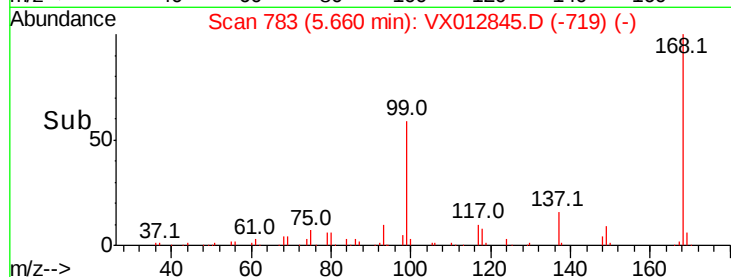
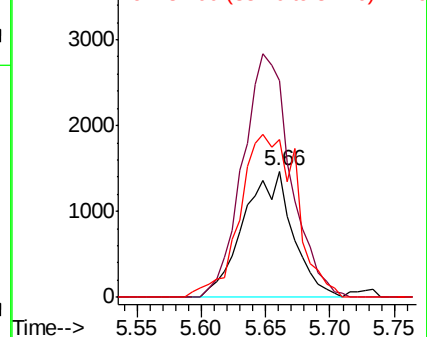
84 125.3 66.4 99.6#



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: 45.175 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012845.D

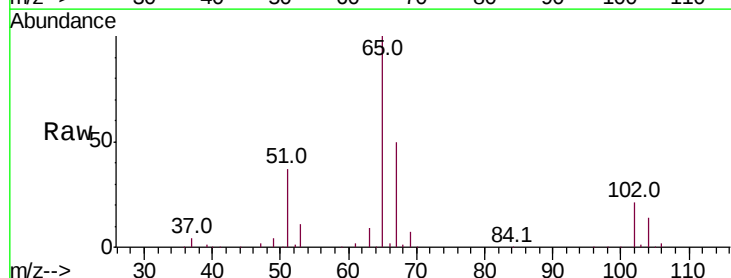
Acq: 07 Oct 2019 17:57

Tgt Ion: 65 Resp: 118757

Ion Ratio Lower Upper

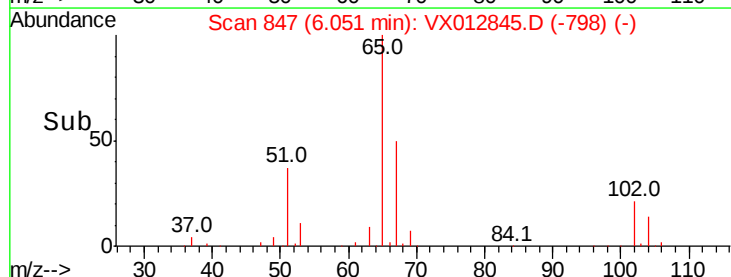
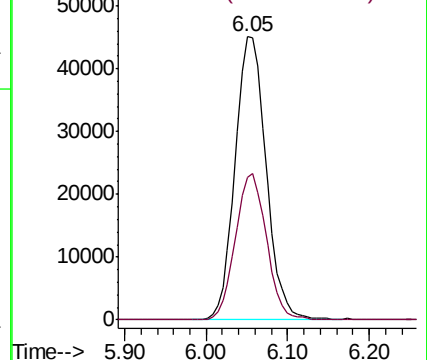
65 100

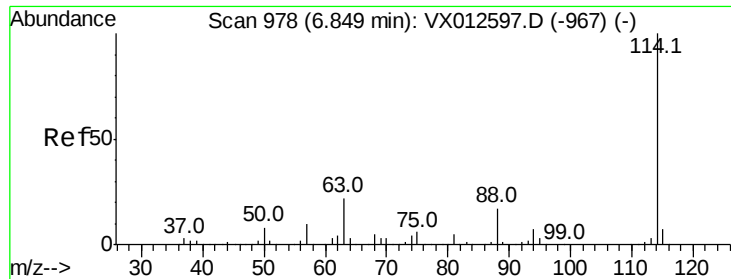
67 51.8 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

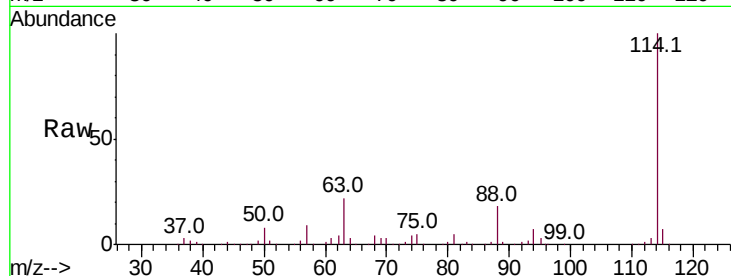




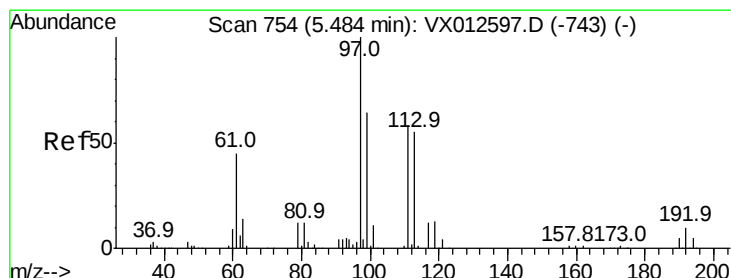
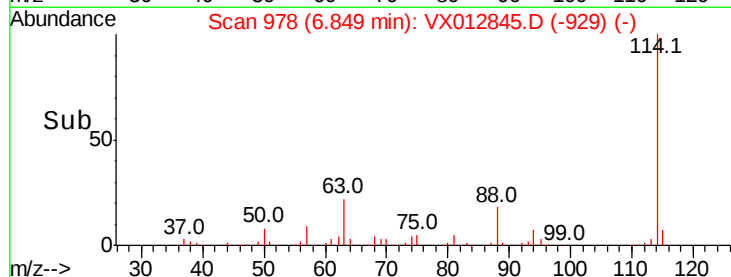
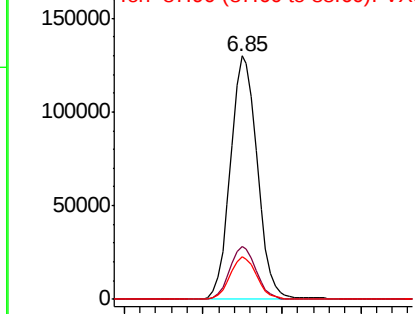
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.85 min Scan# 978  
Delta R.T. -0.00 min  
Lab File: VX012845.D  
Acq: 07 Oct 2019 17:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-104I

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 114   | Resp: | 308875 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 21.6  | 0.0   | 43.2   |
| 88       | 17.7  | 0.0   | 33.2   |

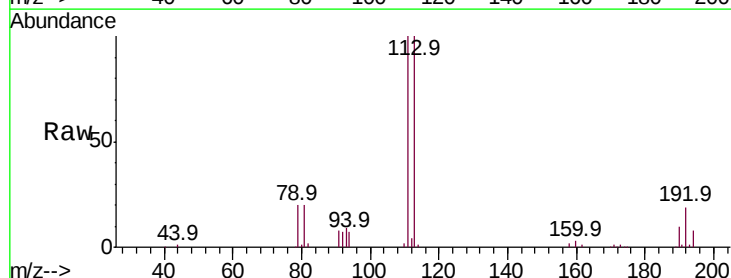


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VX0  
Ion 87.90 (87.60 to 88.60): VX0

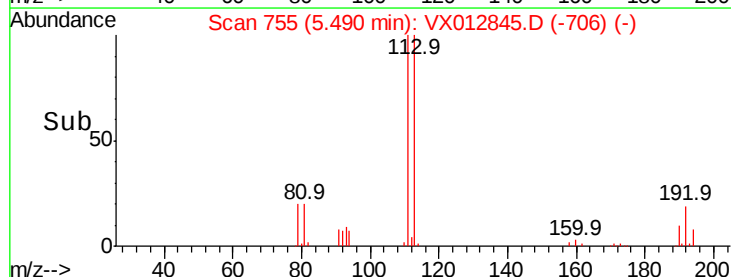
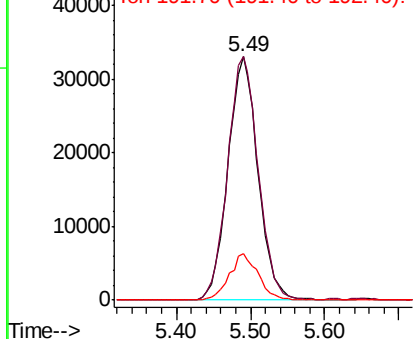


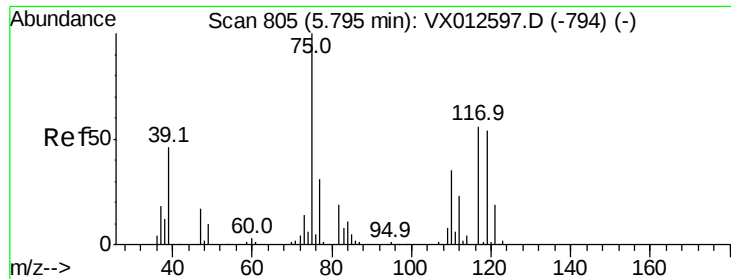
#35  
Dibromofluoromethane  
Concen: 50.728 ug/l  
RT: 5.49 min Scan# 755  
Delta R.T. -0.00 min  
Lab File: VX012845.D  
Acq: 07 Oct 2019 17:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 93314 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 101.9 | 83.4  | 125.2 |
| 192      | 18.2  | 14.4  | 21.6  |



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

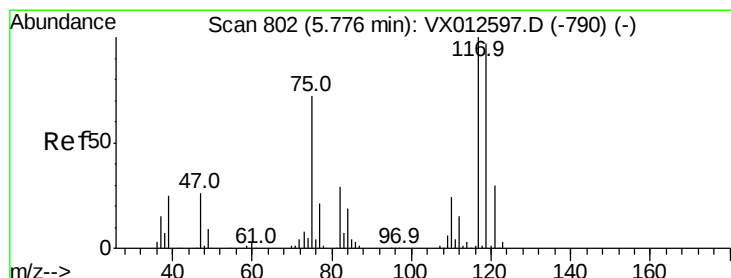
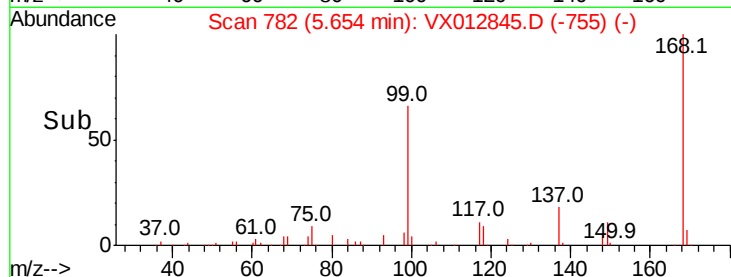
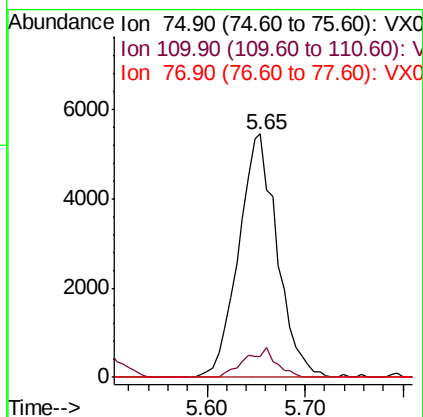
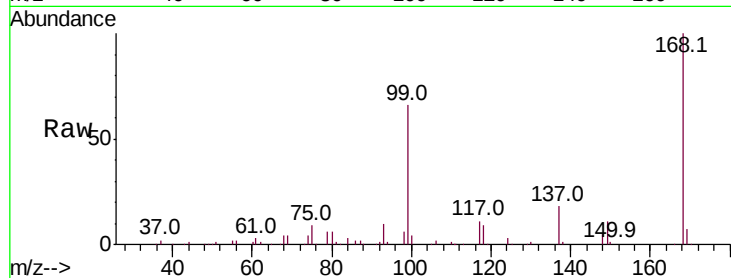




#36  
 1,1-Dichloropropene  
 Concen: 5.013 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.13 min  
 Lab File: VX012845.D  
 Acq: 07 Oct 2019 17:57

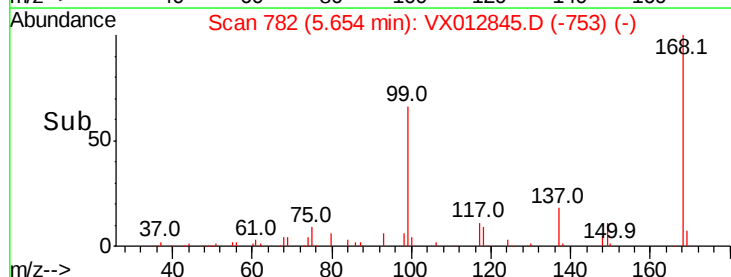
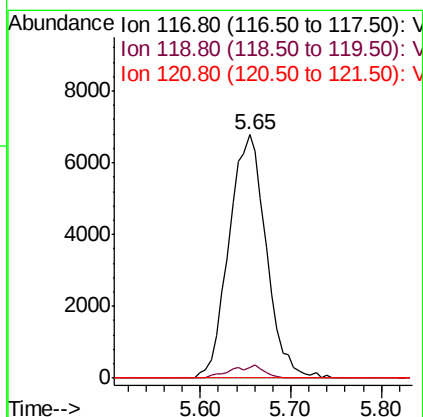
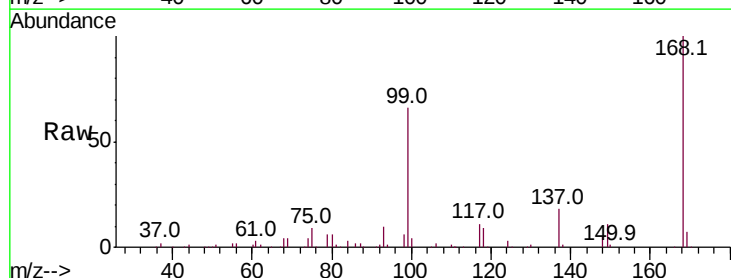
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-104I

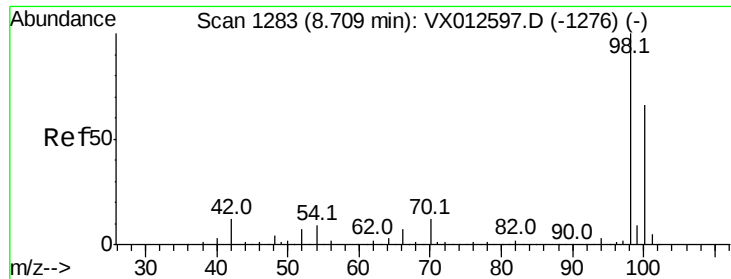
Tot Ion: 75 Resp: 14925  
 Ion Ratio Lower Upper  
 75 100  
 110 9.6 16.7 50.0#  
 77 0.0 24.2 36.2#



#38  
 Carbon Tetrachloride  
 Concen: 6.377 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.12 min  
 Lab File: VX012845.D  
 Acq: 07 Oct 2019 17:57

Tgt Ion: 117 Resp: 19287  
 Ion Ratio Lower Upper  
 117 100  
 119 4.5 75.7 113.5#  
 121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 51.464 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012845.D

Acq: 07 Oct 2019 17:57

Instrument :

MSVOA\_X

ClientSampleId :

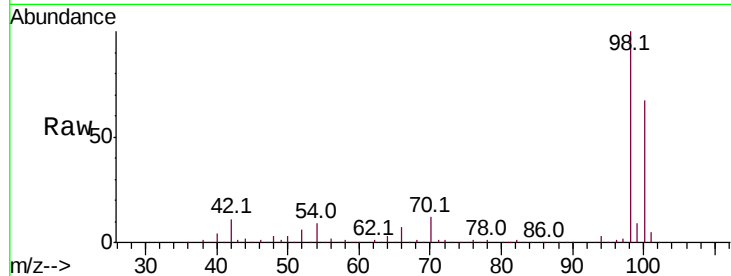
MW-104I

Tot Ion: 98 Resp: 364571

Ion Ratio Lower Upper

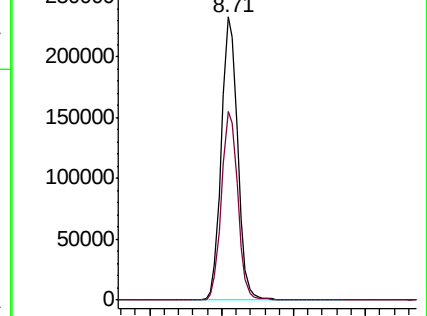
98 100

100 66.8 53.4 80.2

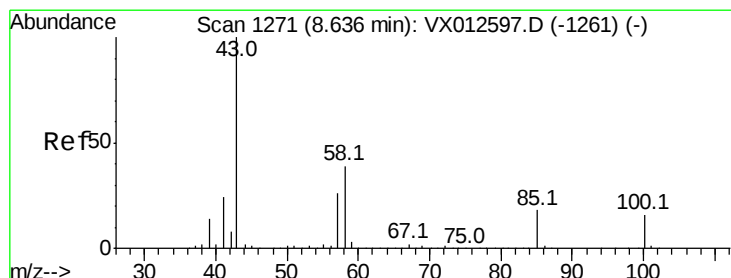
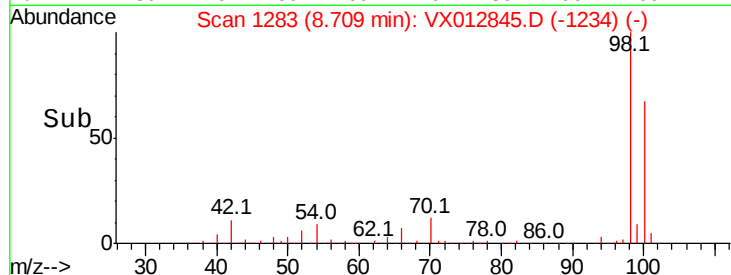


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.480 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012845.D

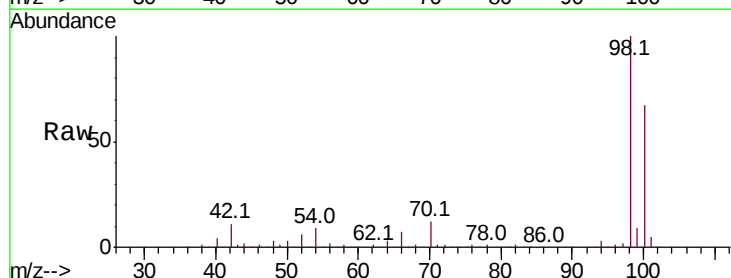
Acq: 07 Oct 2019 17:57

Tgt Ion: 43 Resp: 1725

Ion Ratio Lower Upper

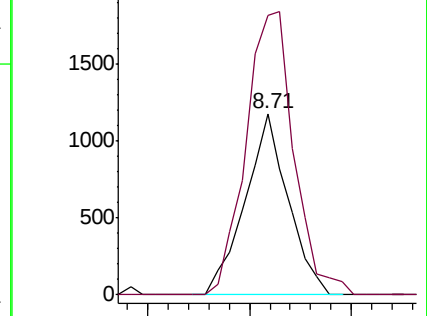
43 100

58 175.0 29.8 44.6#

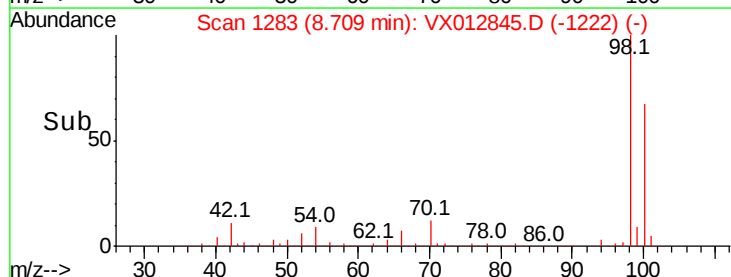


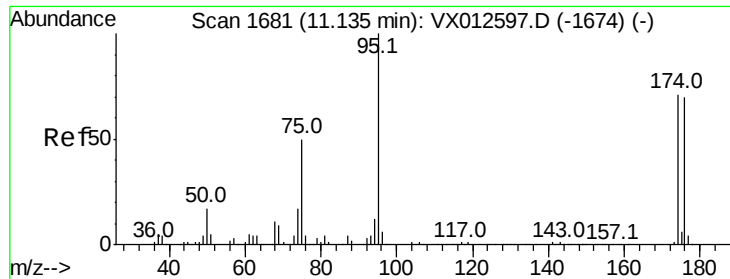
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#62

4-Bromofluorobenzene

Concen: 44.767 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012845.D

Acq: 07 Oct 2019 17:57

Instrument :

MSVOA\_X

ClientSampled :

MW-104I

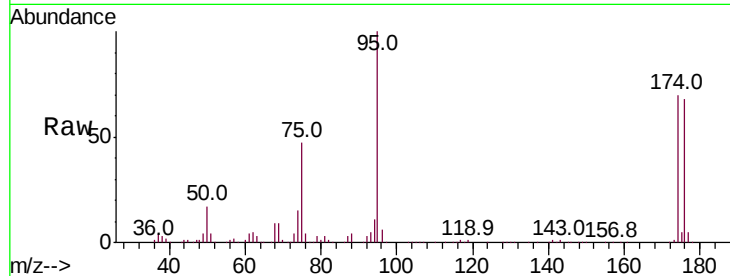
Tot Ion: 95 Resp: 124695

Ion Ratio Lower Upper

95 100

174 70.1 0.0 140.0

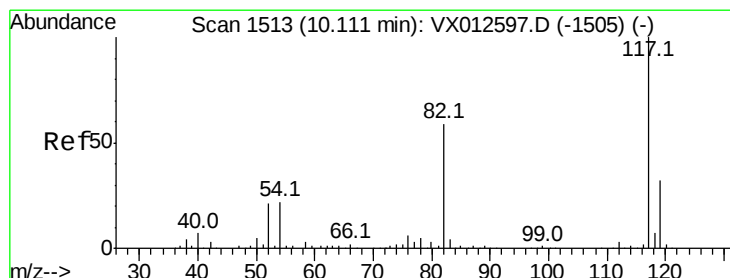
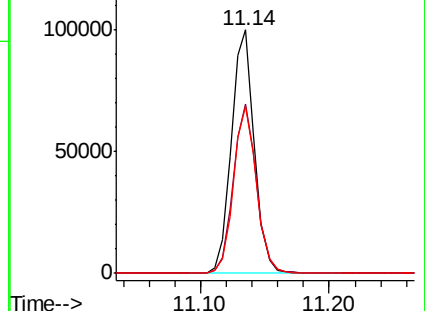
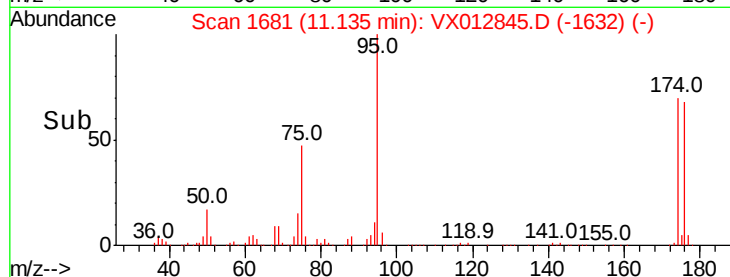
176 68.4 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012845.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012845.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012845.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012845.D

Acq: 07 Oct 2019 17:57

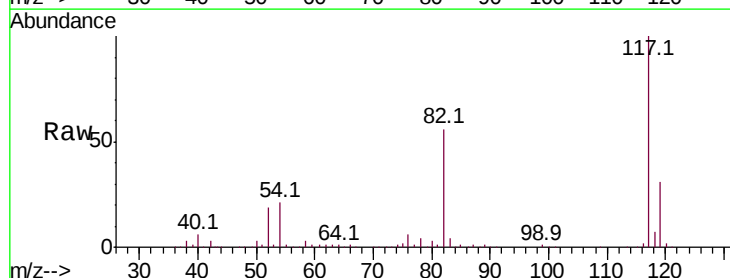
Tgt Ion: 117 Resp: 266860

Ion Ratio Lower Upper

117 100

82 55.9 45.9 68.9

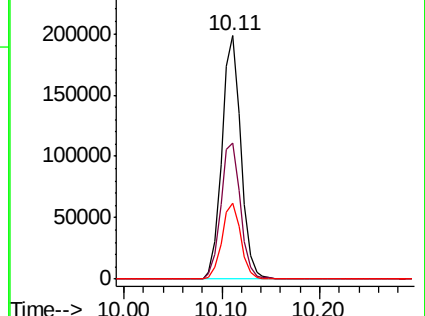
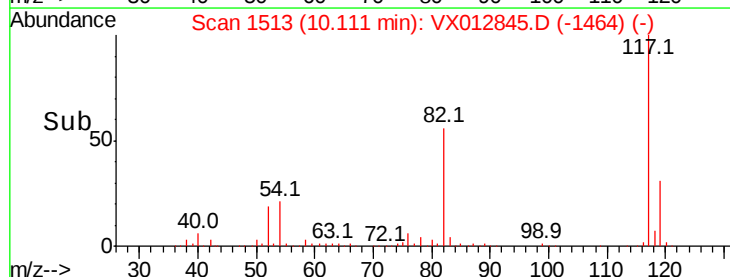
119 31.4 25.3 37.9

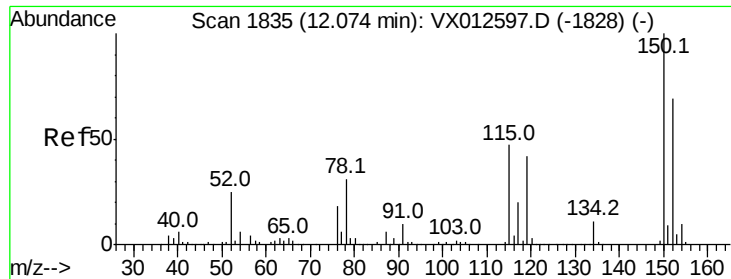


Abundance Ion 116.90 (116.60 to 117.60): VX012845.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012845.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012845.D (-1464) (-)



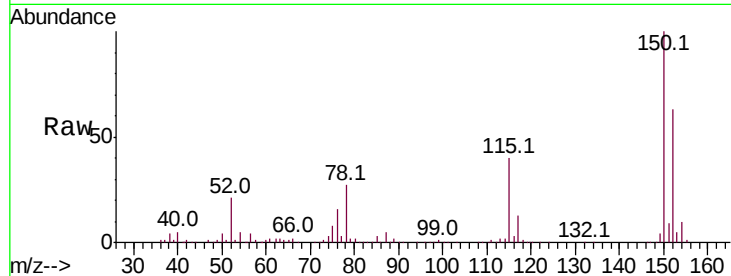


#72

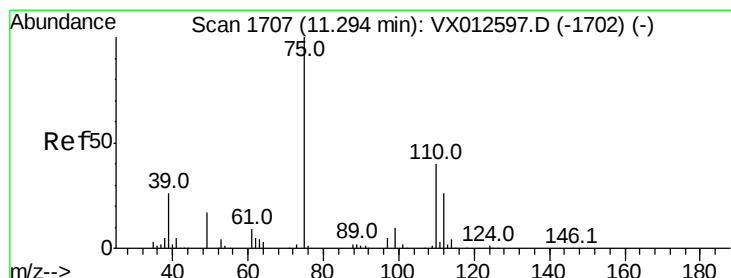
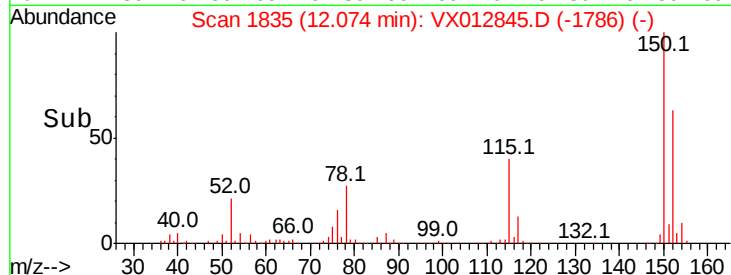
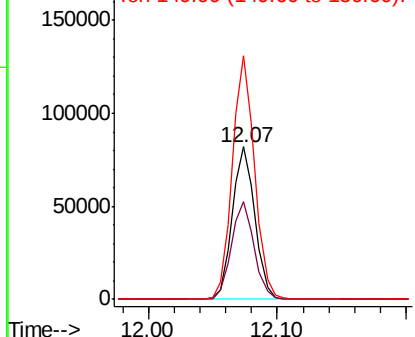
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX012845.D  
Acq: 07 Oct 2019 17:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-104I

Tot Ion:152 Resp: 100419  
Ion Ratio Lower Upper  
152 100  
115 64.3 44.1 132.3  
150 158.0 0.0 343.8



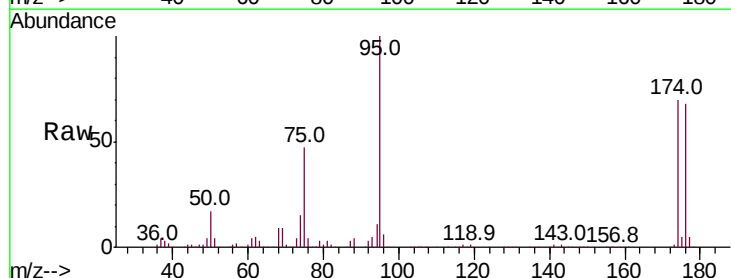
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



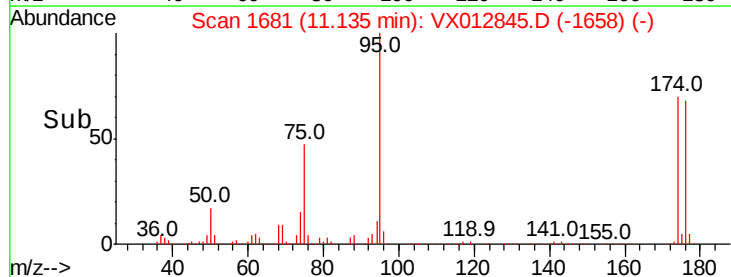
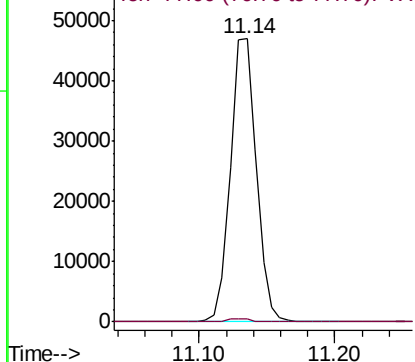
#76

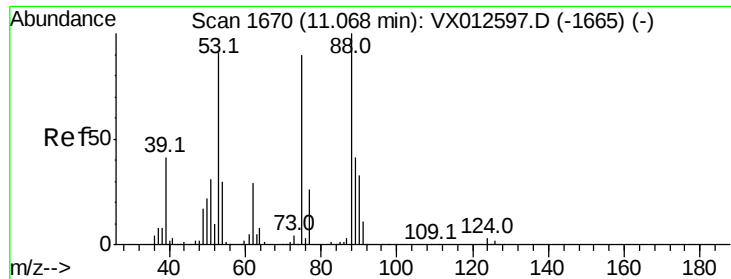
1,2,3-Trichloropropane  
Concen: 23.514 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. -0.16 min  
Lab File: VX012845.D  
Acq: 07 Oct 2019 17:57

Tgt Ion: 75 Resp: 62462  
Ion Ratio Lower Upper  
75 100  
77 0.8 19.7 59.0#



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: 67.387 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012845.D

Acq: 07 Oct 2019 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-104I

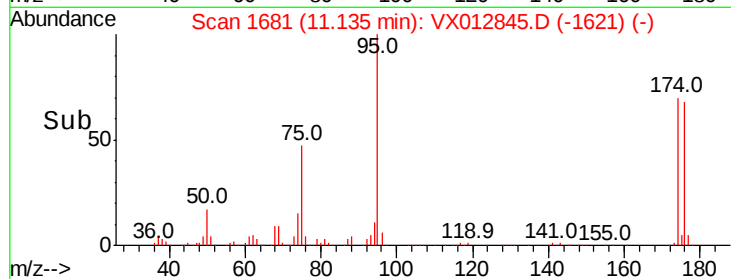
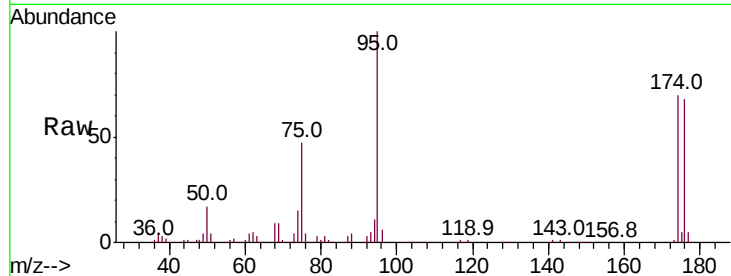
Tot Ion: 75 Resp: 62462

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.1 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

