

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100219\  
 Data File : VX012758.D  
 Acq On : 02 Oct 2019 14:05  
 Operator : JC/SP  
 Sample : K5110-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-1

Quant Time: Oct 03 04:52:13 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  | 171695   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 301580   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 255896   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 98019    | 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   | 123279   | 49.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.62%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 91301    | 50.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.66% |          |
| 50) Toluene-d8              | 8.71  | 98   | 351167   | 50.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.54% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 120297   | 44.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.46%  |          |

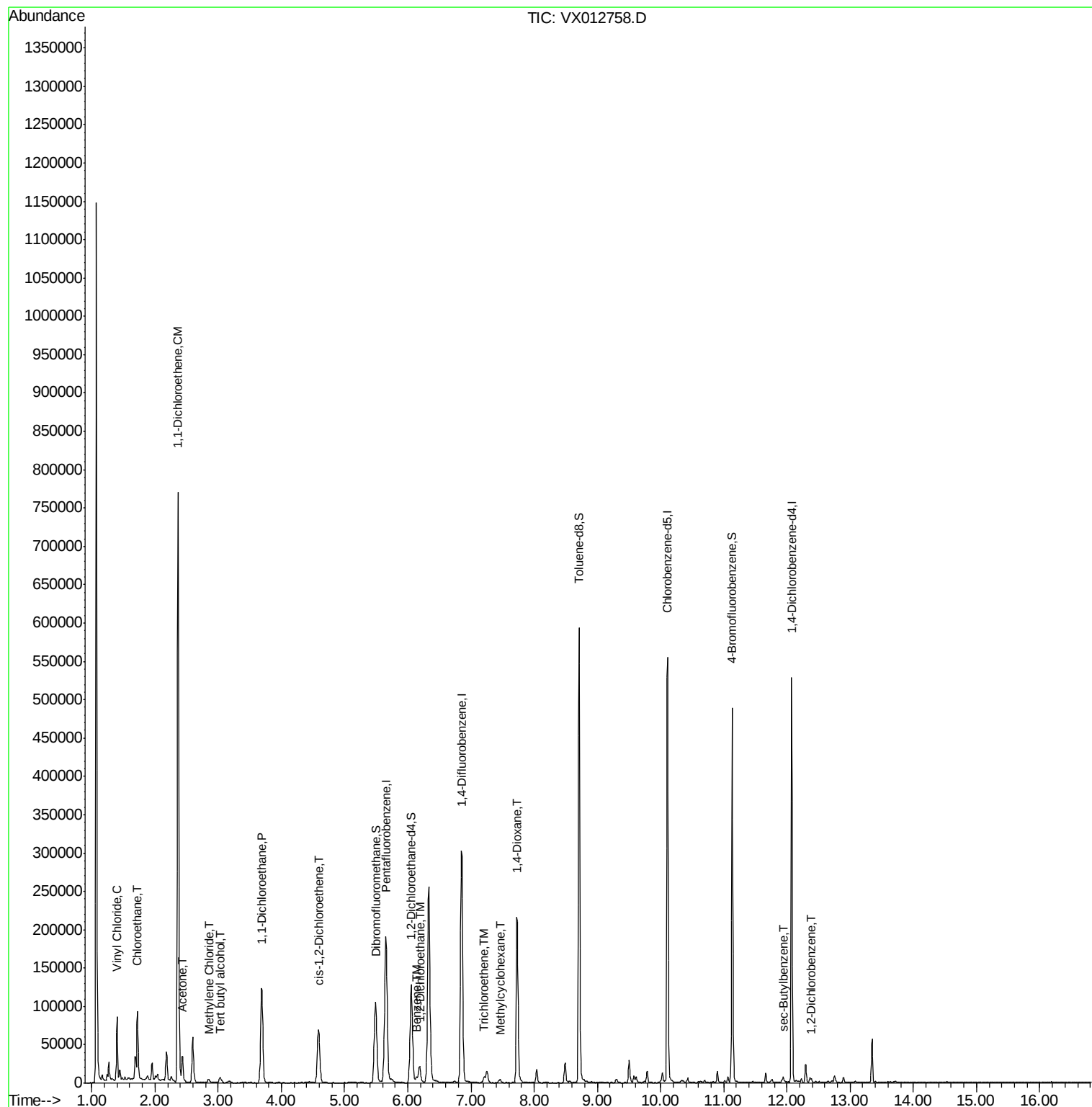
| Target Compounds           | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|----------------------------|-------|------|----------|----------|--------|--------|
| 4) Vinyl Chloride          | 1.40  | 62   | 50657    | 22.978   | ug/l   | 99     |
| 6) Chloroethane            | 1.72  | 64   | 58081    | 39.081   | ug/l   | 93     |
| 11) Tert butyl alcohol     | 3.03  | 59   | 8511     | 13.627   | ug/l   | 100    |
| 12) 1,1-Dichloroethene     | 2.36  | 96   | 257532   | 139.507  | ug/l   | 99     |
| 16) Acetone                | 2.43  | 43   | 35515    | 26.818   | ug/l   | 96     |
| 20) Methylene Chloride     | 2.85  | 84   | 1914     | 0.855    | ug/l   | 91     |
| 24) 1,1-Dichloroethane     | 3.69  | 63   | 138683   | 36.051   | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene | 4.59  | 96   | 43853    | 18.480   | ug/l   | 85     |
| 39) Methylcyclohexane      | 7.46  | 83   | 1894     | 0.541    | ug/l # | 88     |
| 40) Benzene                | 6.14  | 78   | 7311     | 0.855    | ug/l # | 88     |
| 42) 1,2-Dichloroethane     | 6.19  | 62   | 22552    | 6.944    | ug/l   | 96     |
| 44) Trichloroethene        | 7.22  | 130  | 2941     | 1.345    | ug/l   | 96     |
| 49) 1,4-Dioxane            | 7.73  | 88   | 160927   | 2603.551 | ug/l # | 92     |
| 85) sec-Butylbenzene       | 11.95 | 105  | 2795     | 0.372    | ug/l # | 69     |
| 91) 1,2-Dichlorobenzene    | 12.39 | 146  | 1148     | 0.353    | ug/l   | 93     |

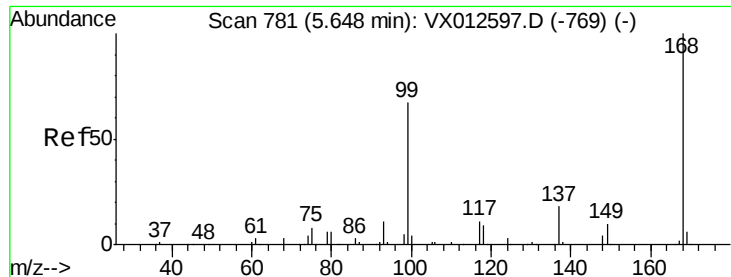
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX100219\  
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Sample : K5110-01  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-1

Quant Time: Oct 03 04:52:13 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: VX012758.D

Acq: 02 Oct 2019 14:05

Instrument :

MSVOA\_X

ClientSampleId :

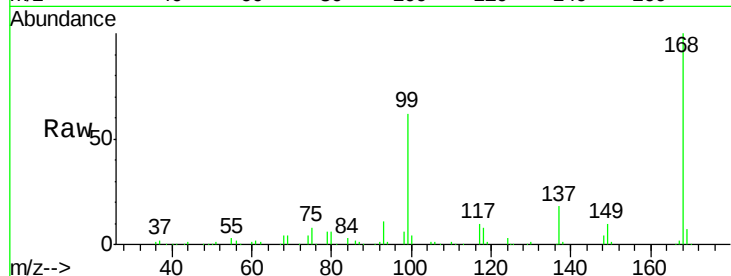
MW-1

Tot Ion:168 Resp: 171695

Ion Ratio Lower Upper

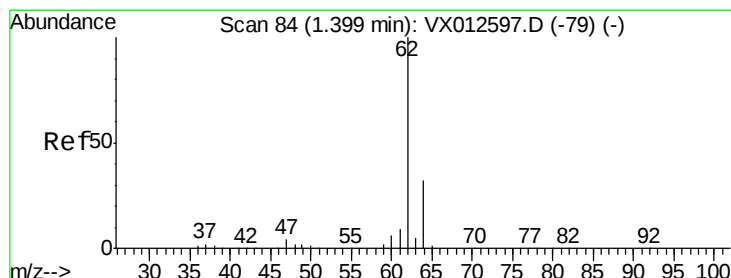
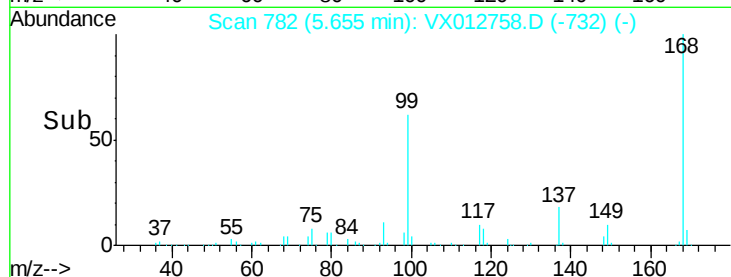
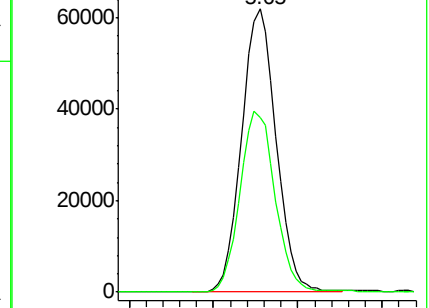
168 100

99 61.5 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 22.978 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012758.D

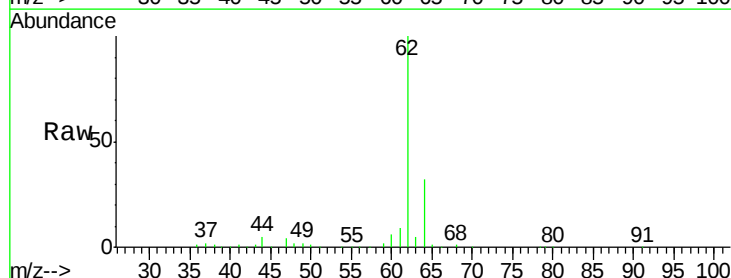
Acq: 02 Oct 2019 14:05

Tgt Ion: 62 Resp: 50657

Ion Ratio Lower Upper

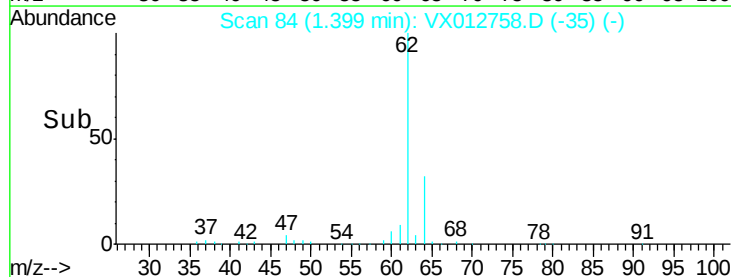
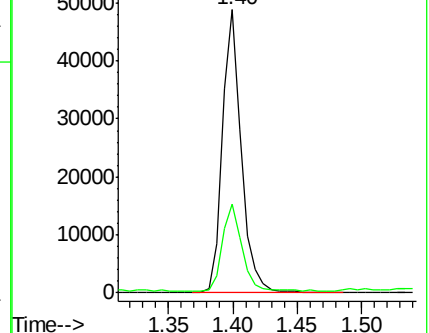
62 100

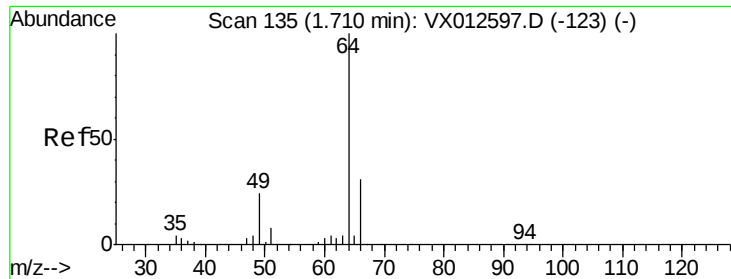
64 30.8 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#6

Chloroethane

Concen: 39.081 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX012758.D

Acq: 02 Oct 2019 14:05

Instrument :

MSVOA\_X

ClientSampleId :

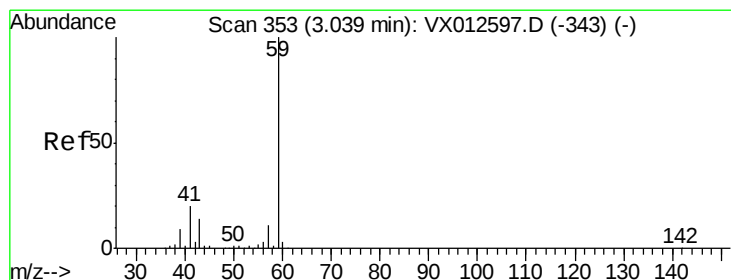
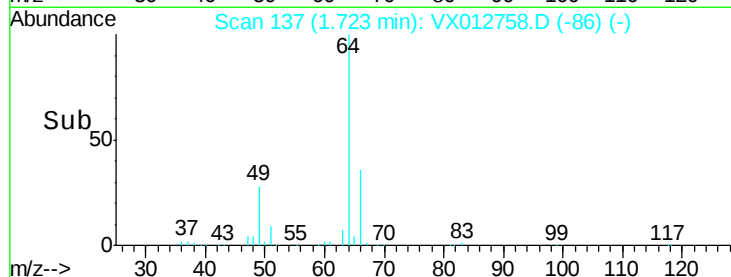
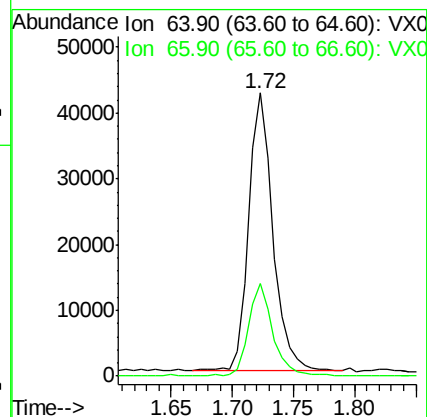
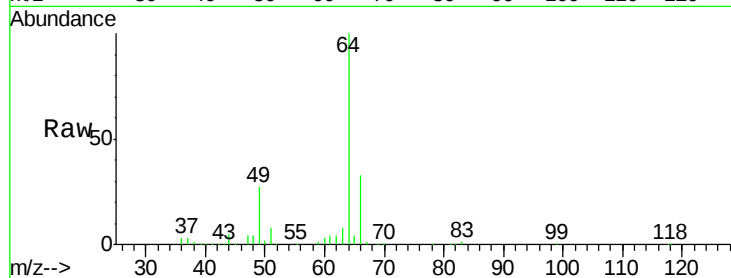
MW-1

Tot Ion: 64 Resp: 58081

Ion Ratio Lower Upper

64 100

66 33.6 24.0 36.0



#11

Tert butyl alcohol

Concen: 13.627 ug/l

RT: 3.03 min Scan# 352

Delta R.T. -0.01 min

Lab File: VX012758.D

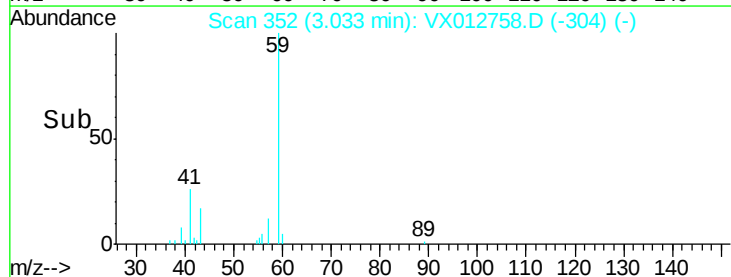
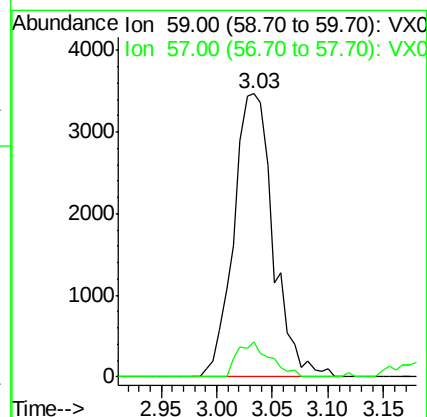
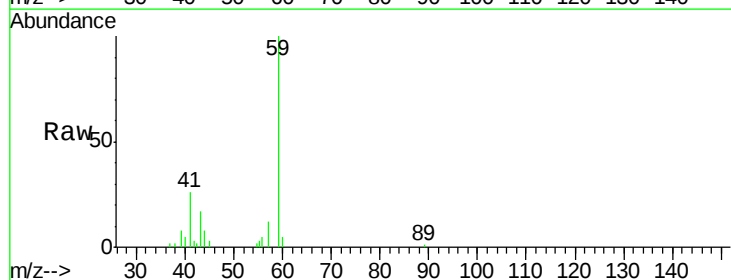
Acq: 02 Oct 2019 14:05

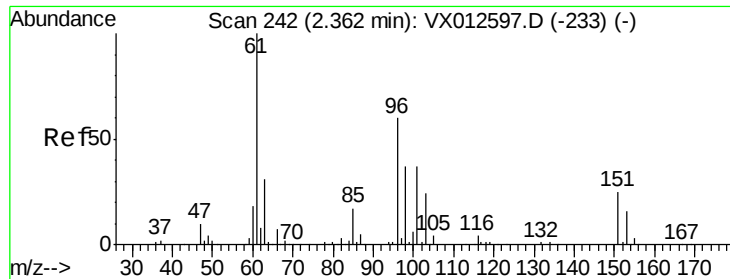
Tgt Ion: 59 Resp: 8511

Ion Ratio Lower Upper

59 100

57 10.2 8.3 12.5





#12

1,1-Dichloroethene

Concen: 139.507 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX012758.D

Acq: 02 Oct 2019 14:05

Instrument :

MSVOA\_X

ClientSampled :

MW-1

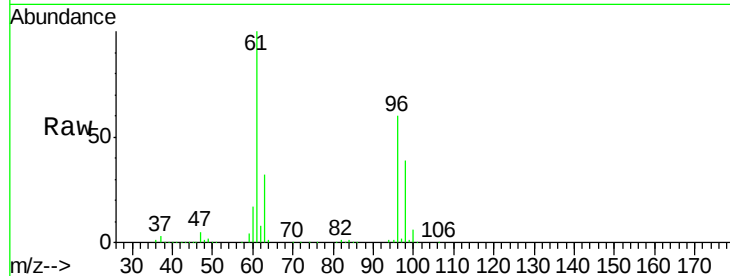
Tot Ion: 96 Resp: 257532

Ion Ratio Lower Upper

96 100

61 167.3 133.8 200.6

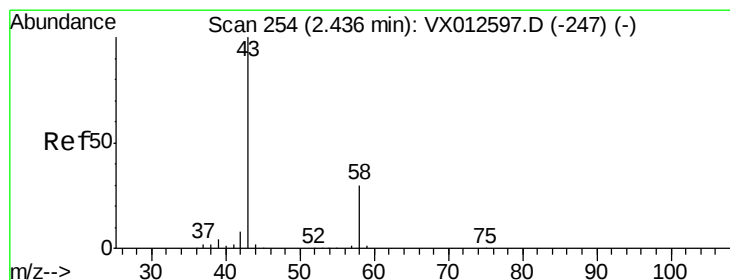
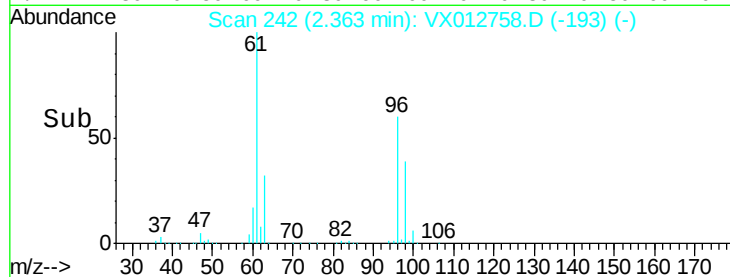
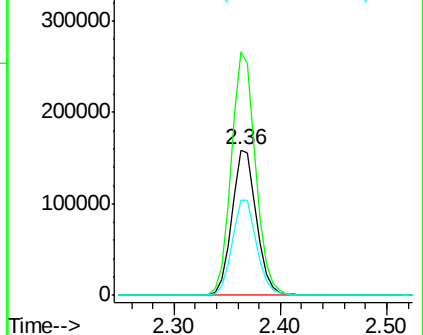
98 65.1 49.9 74.9



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#16

Acetone

Concen: 26.818 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012758.D

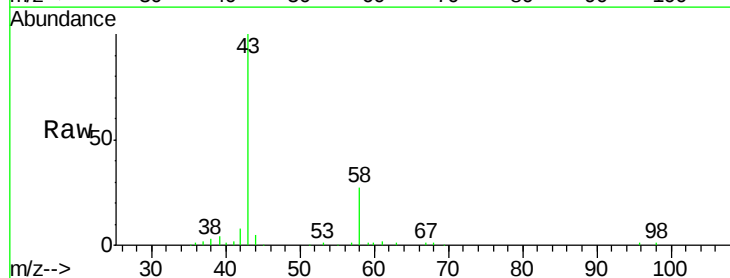
Acq: 02 Oct 2019 14:05

Tgt Ion: 43 Resp: 35515

Ion Ratio Lower Upper

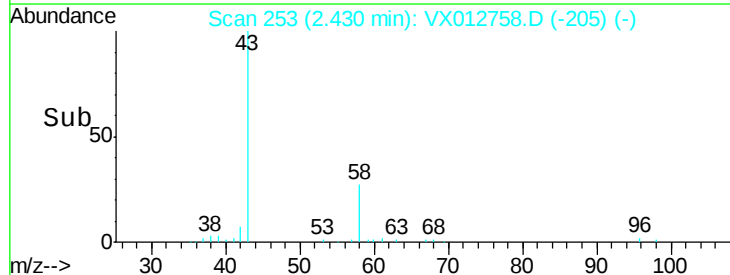
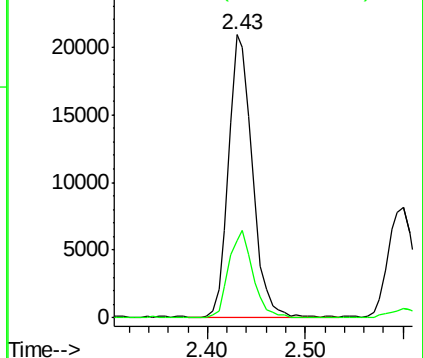
43 100

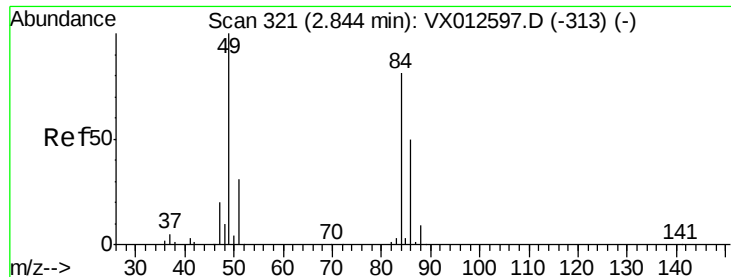
58 27.1 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



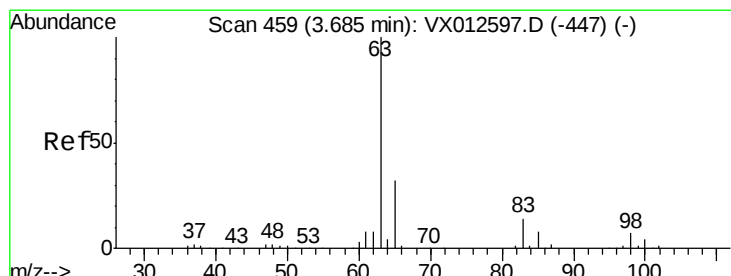
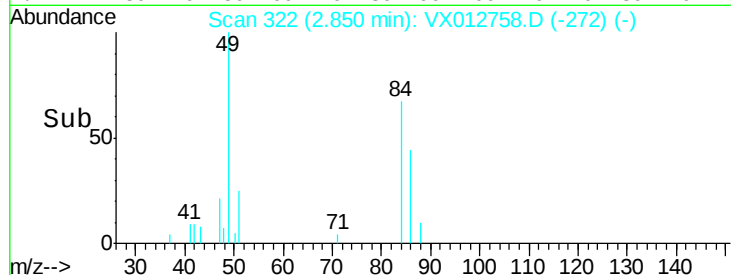
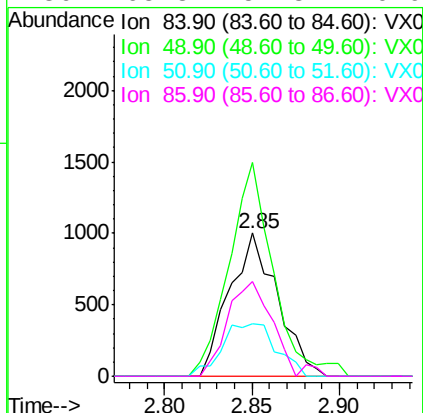
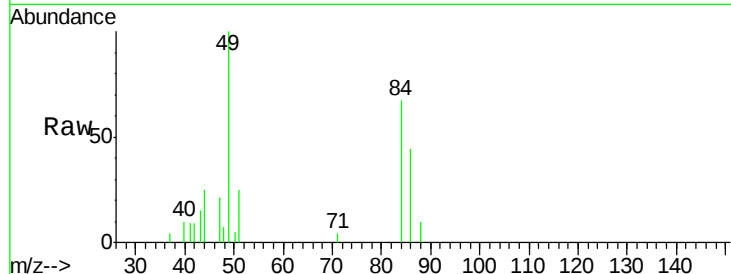


#20  
Methvlene Chloride  
Concen: 0.855 ug/l  
RT: 2.85 min Scan# 322  
Delta R.T. 0.01 min  
Lab File: VX012758.D  
Acq: 02 Oct 2019 14:05

Instrument :  
MSVOA\_X  
ClientSampled :  
MW-1

Tot Ion: 84 Resp: 1914

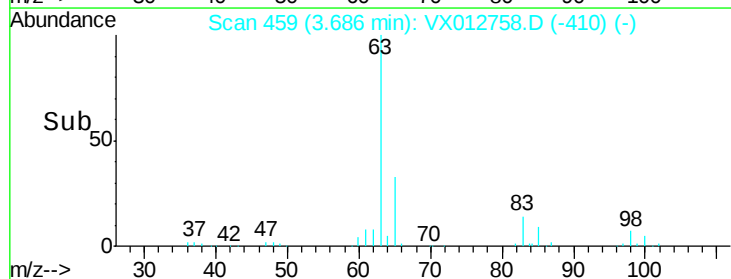
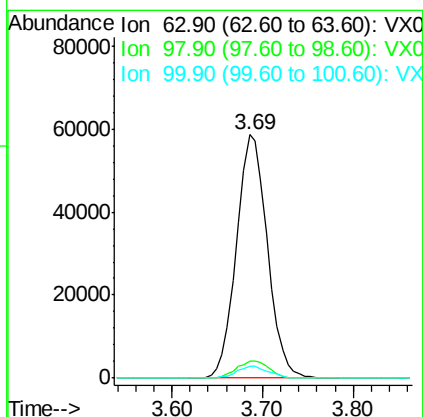
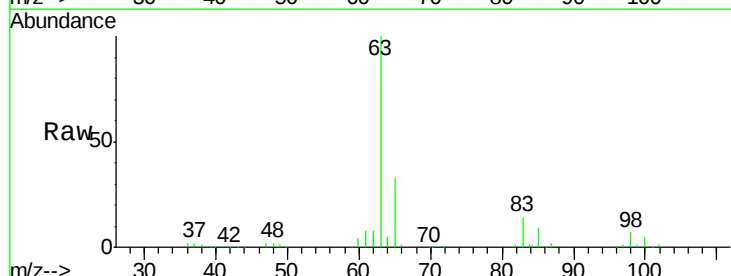
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 149.2 | 106.8 | 160.2 |
| 51  | 36.8  | 32.3  | 48.5  |
| 86  | 65.8  | 51.3  | 76.9  |

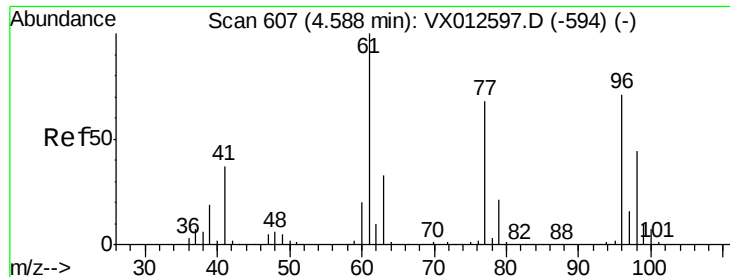


#24  
1,1-Dichloroethane  
Concen: 36.051 ug/l  
RT: 3.69 min Scan# 459  
Delta R.T. 0.00 min  
Lab File: VX012758.D  
Acq: 02 Oct 2019 14:05

Tgt Ion: 63 Resp: 138683

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 7.3   | 3.9   | 11.7  |
| 100 | 4.8   | 2.3   | 6.9   |



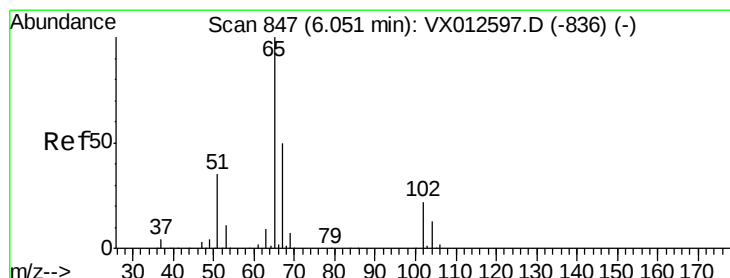
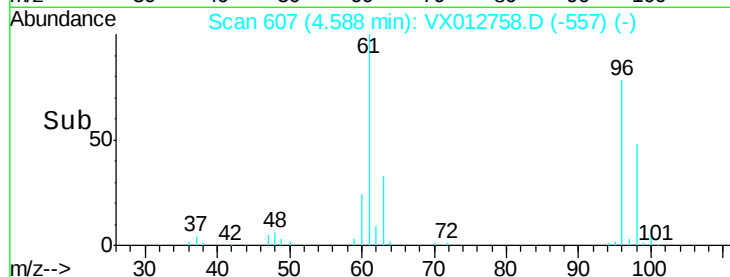
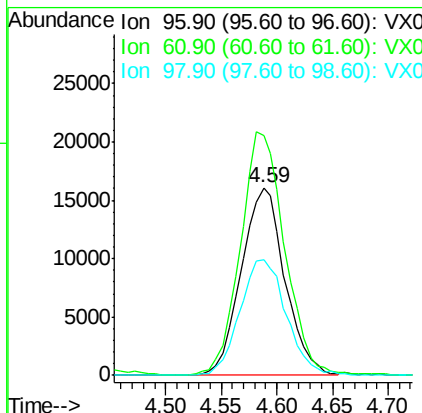
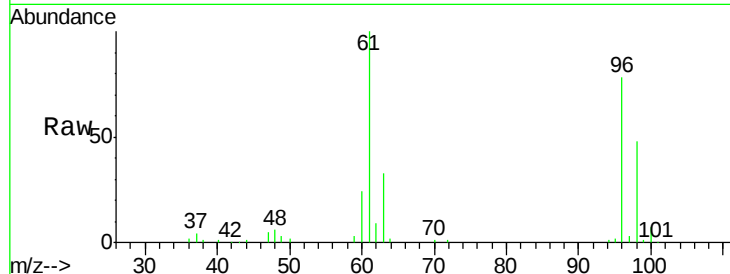


#27

cis-1,2-Dichloroethene  
 Concen: 18.480 ug/l  
 RT: 4.59 min Scan# 607  
 Delta R.T. 0.01 min  
 Lab File: VX012758.D  
 Acq: 02 Oct 2019 14:05

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-1

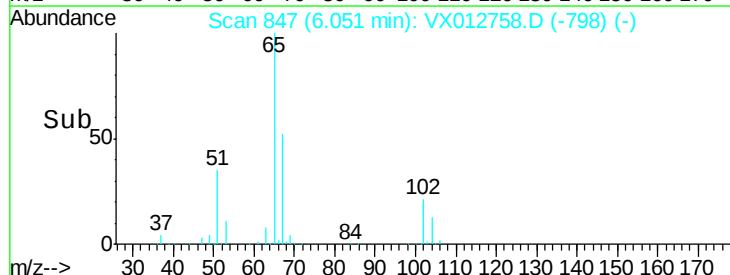
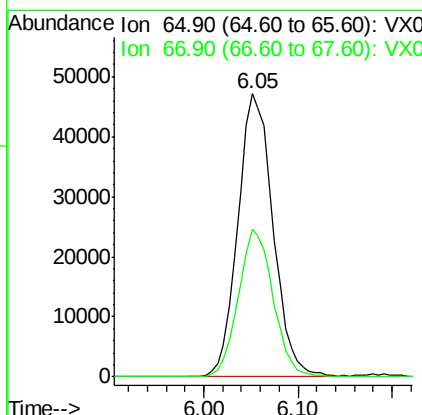
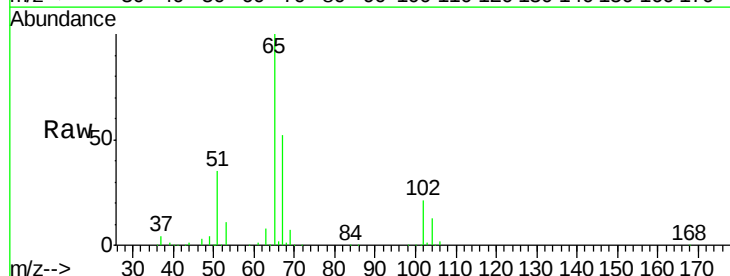
| Tot Ion | 96    | Resp  | 43853 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 96      | 100   |       |       |
| 61      | 132.1 | 0.0   | 319.4 |
| 98      | 65.4  | 0.0   | 130.6 |

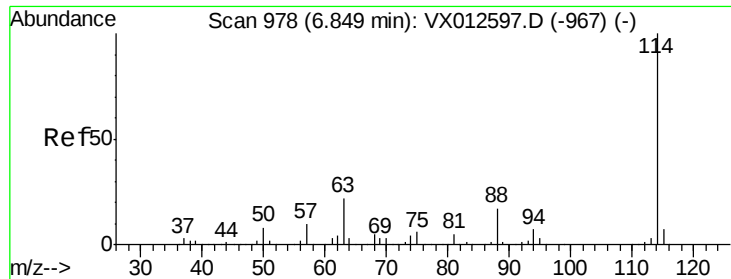


#33

1,2-Dichloroethane-d4  
 Concen: 49.307 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX012758.D  
 Acq: 02 Oct 2019 14:05

| Tgt Ion | 65    | Resp  | 123279 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 65      | 100   |       |        |
| 67      | 51.6  | 0.0   | 101.2  |

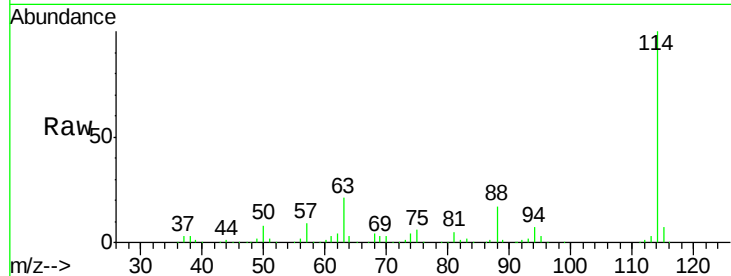




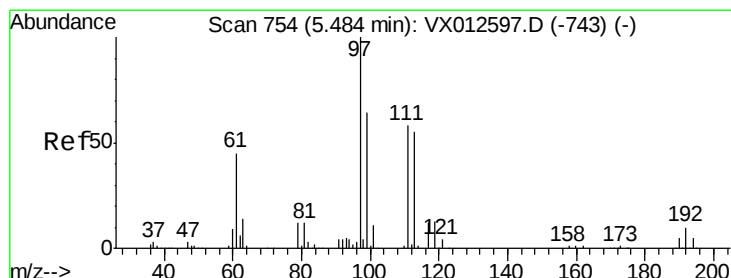
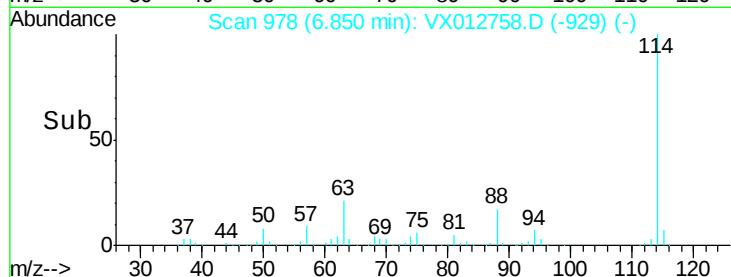
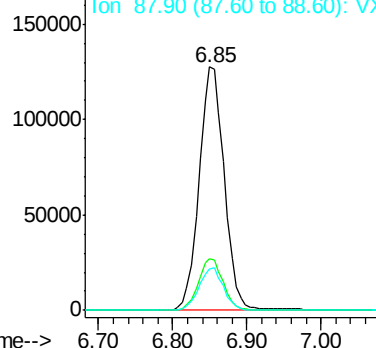
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.85 min Scan# 978  
Delta R.T. 0.00 min  
Lab File: VX012758.D  
Acq: 02 Oct 2019 14:05

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-1

Tot Ion:114 Resp: 301580  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 43.2  
88 16.8 0.0 33.2

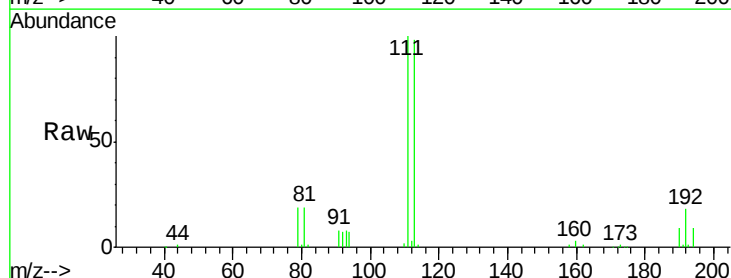


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VX0  
Ion 87.90 (87.60 to 88.60): VX0

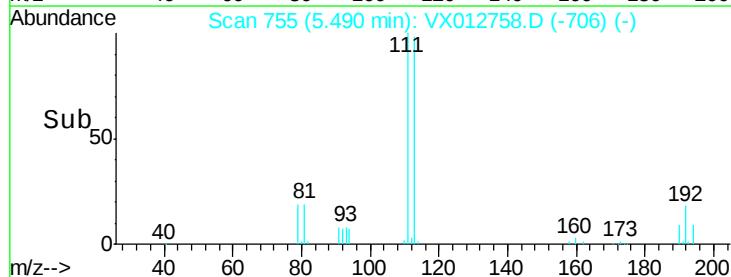
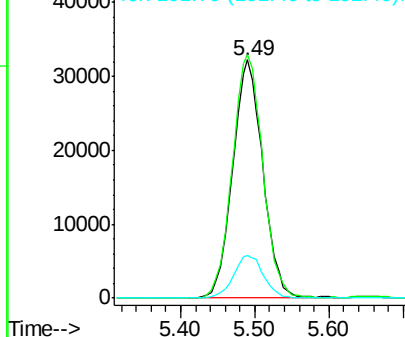


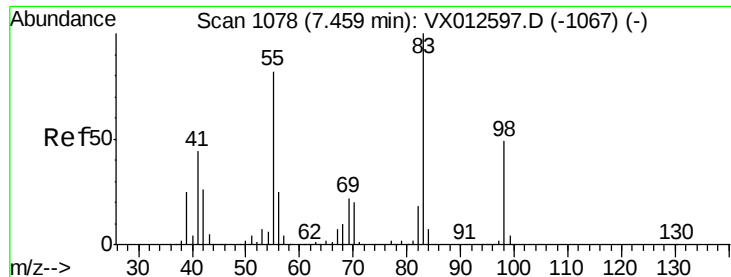
#35  
Dibromofluoromethane  
Concen: 50.835 ug/l  
RT: 5.49 min Scan# 755  
Delta R.T. 0.00 min  
Lab File: VX012758.D  
Acq: 02 Oct 2019 14:05

Tgt Ion:113 Resp: 91301  
Ion Ratio Lower Upper  
113 100  
111 103.5 83.4 125.2  
192 17.9 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

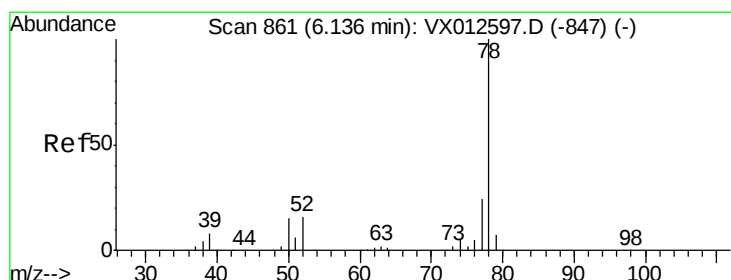
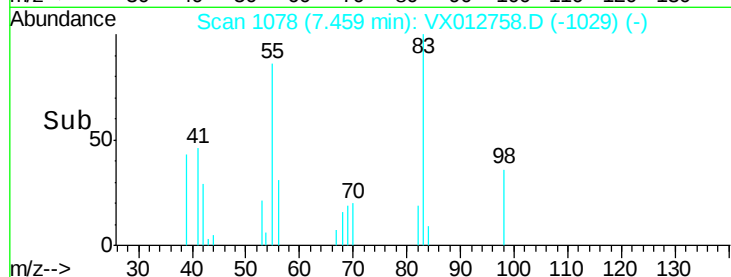
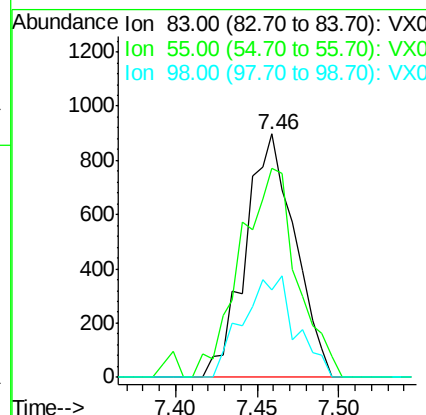
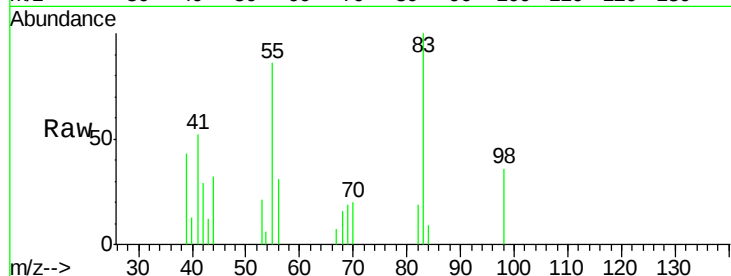




#39  
Methvlcvclohexane  
Concen: 0.541 ug/l  
RT: 7.46 min Scan# 1078  
Delta R.T. 0.00 min  
Lab File: VX012758.D  
Acq: 02 Oct 2019 14:05

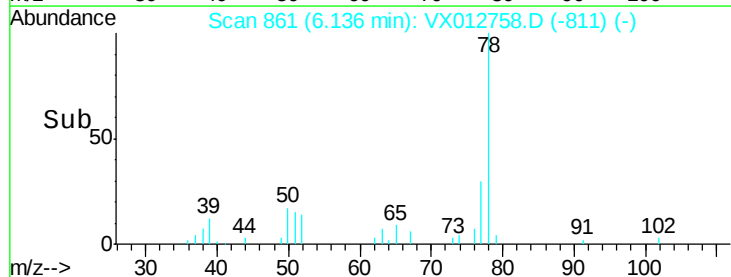
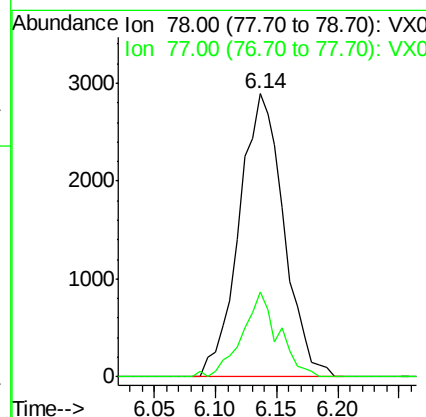
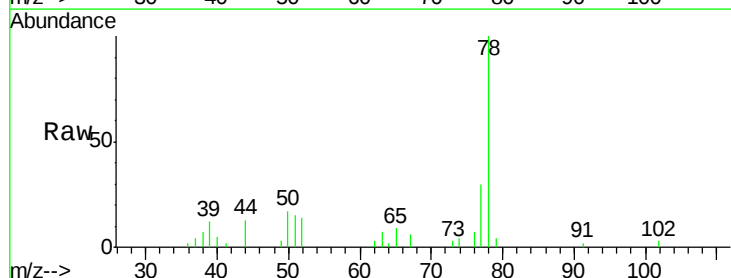
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-1

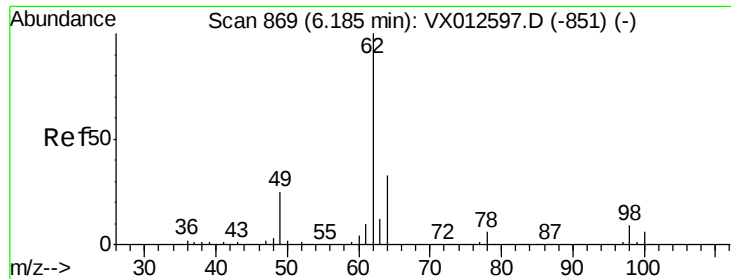
Tot Ion: 83 Resp: 1894  
Ion Ratio Lower Upper  
83 100  
55 85.9 64.4 96.6  
98 36.1 40.1 60.1#



#40  
Benzene  
Concen: 0.855 ug/l  
RT: 6.14 min Scan# 861  
Delta R.T. 0.01 min  
Lab File: VX012758.D  
Acq: 02 Oct 2019 14:05

Tgt Ion: 78 Resp: 7311  
Ion Ratio Lower Upper  
78 100  
77 30.1 19.2 28.8#

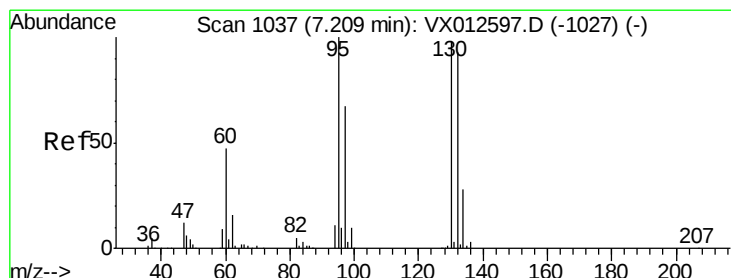
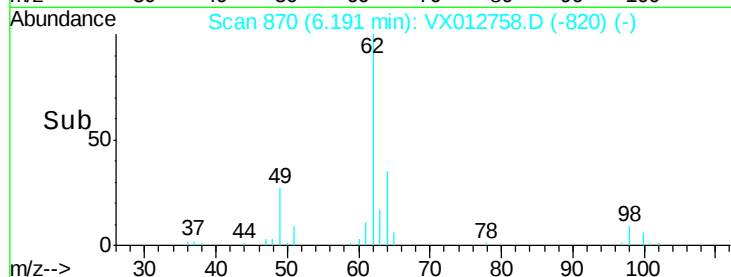
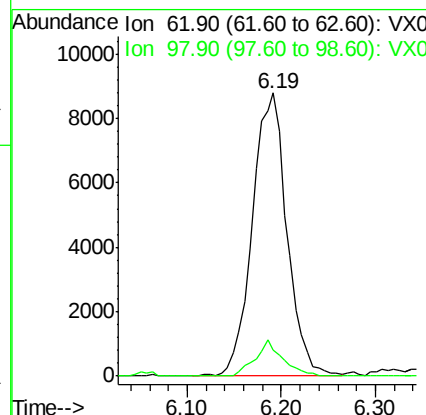
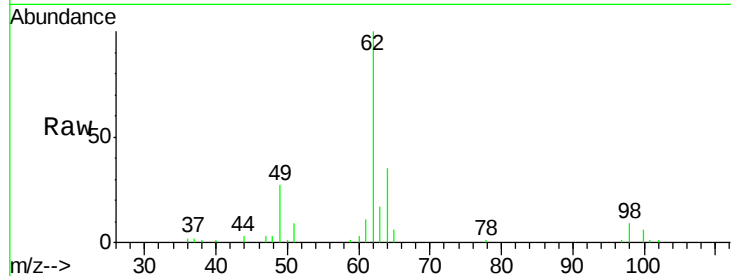




#42  
 1,2-Dichloroethane  
 Concen: 6.944 ug/l  
 RT: 6.19 min Scan# 870  
 Delta R.T. 0.01 min  
 Lab File: VX012758.D  
 Acq: 02 Oct 2019 14:05

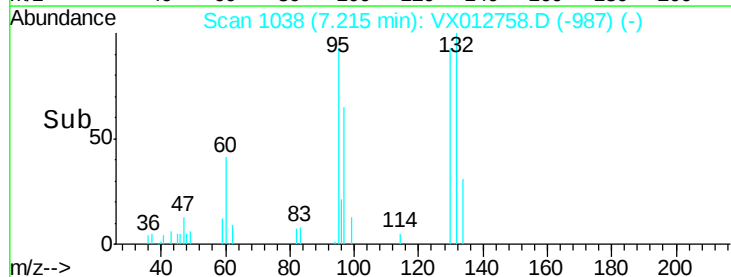
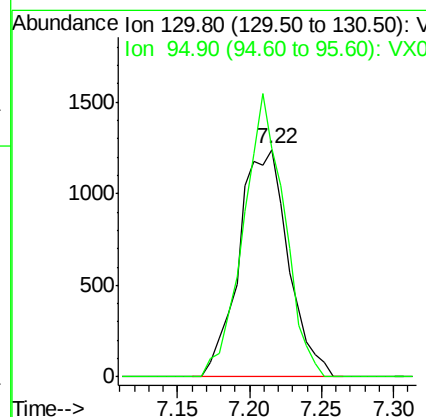
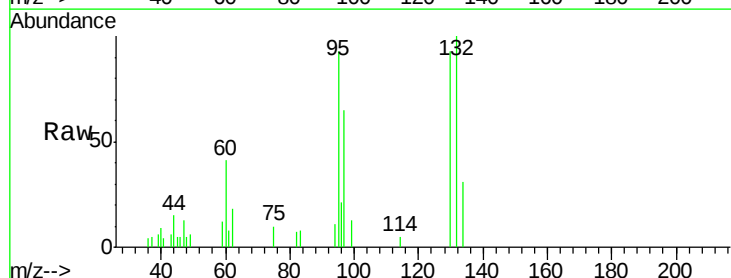
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-1

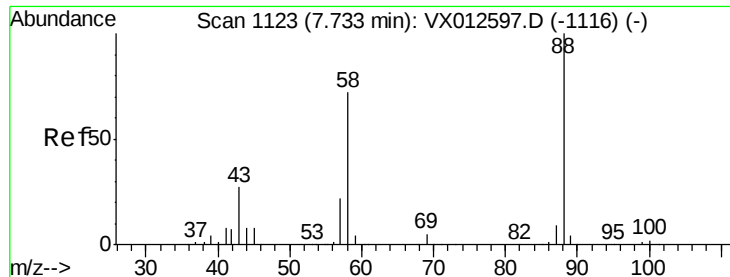
Tot Ion: 62 Resp: 22552  
 Ion Ratio Lower Upper  
 62 100  
 98 10.2 0.0 17.8



#44  
 Trichloroethene  
 Concen: 1.345 ug/l  
 RT: 7.22 min Scan# 1038  
 Delta R.T. 0.01 min  
 Lab File: VX012758.D  
 Acq: 02 Oct 2019 14:05

Tgt Ion:130 Resp: 2941  
 Ion Ratio Lower Upper  
 130 100  
 95 100.3 0.0 193.0





#49

1,4-Dioxane

Concen: 2603.551 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX012758.D

Acq: 02 Oct 2019 14:05

Instrument :

MSVOA\_X

ClientSampled :

MW-1

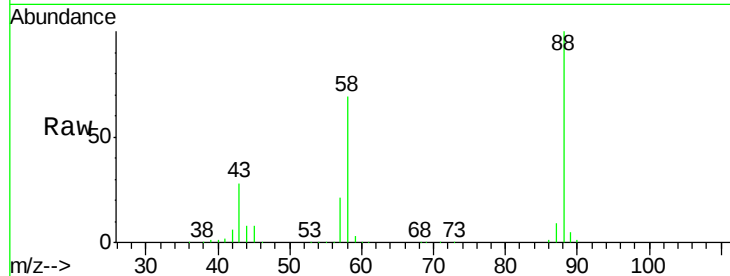
Tot Ion: 88 Resp: 160927

Ion Ratio Lower Upper

88 100

43 27.6 29.4 44.0#

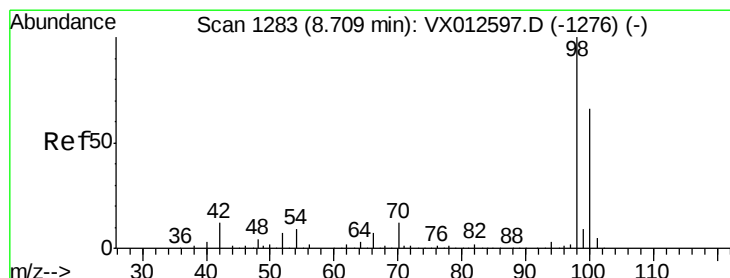
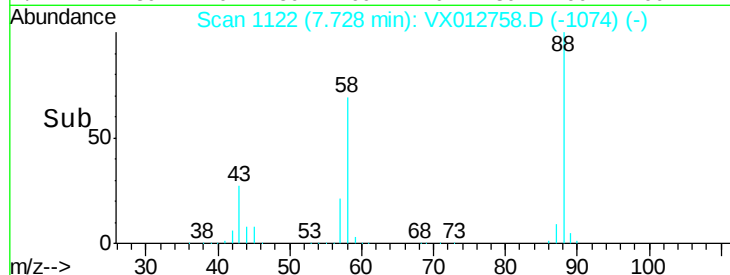
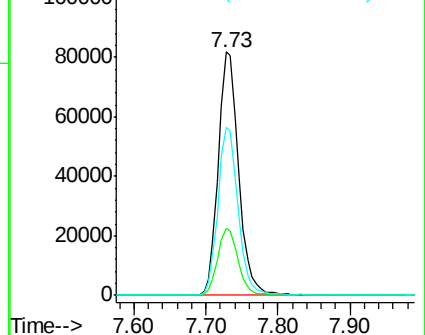
58 68.1 57.5 86.3



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.771 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012758.D

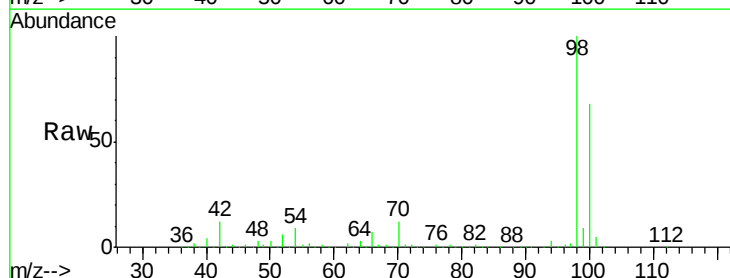
Acq: 02 Oct 2019 14:05

Tgt Ion: 98 Resp: 351167

Ion Ratio Lower Upper

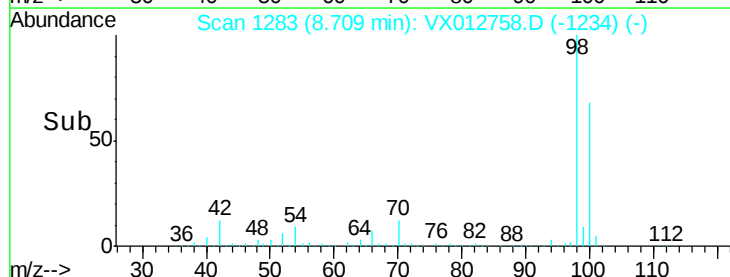
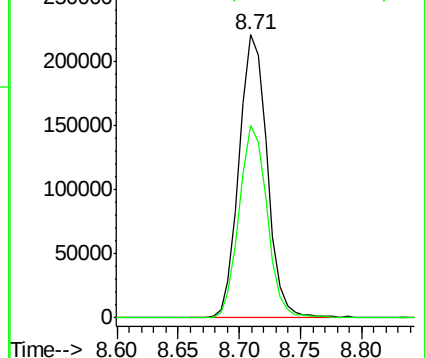
98 100

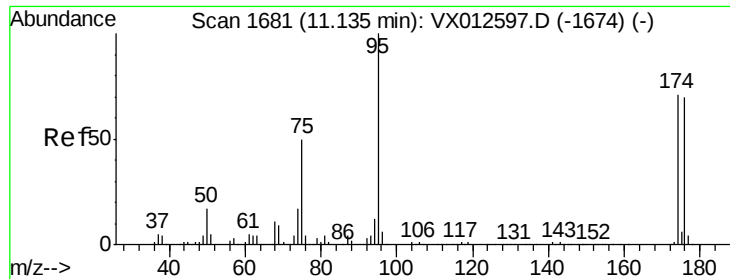
100 68.4 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

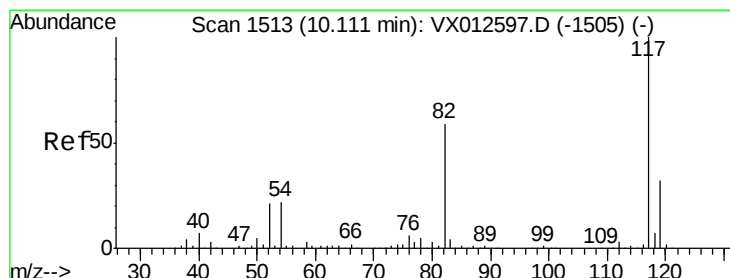
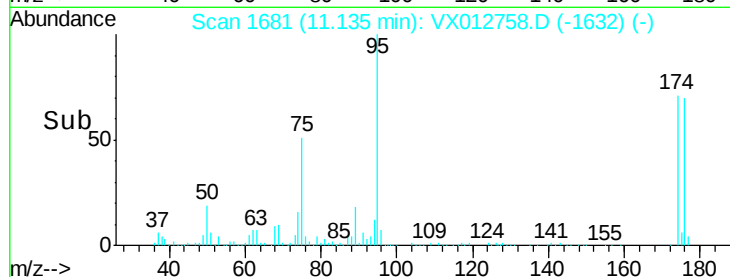
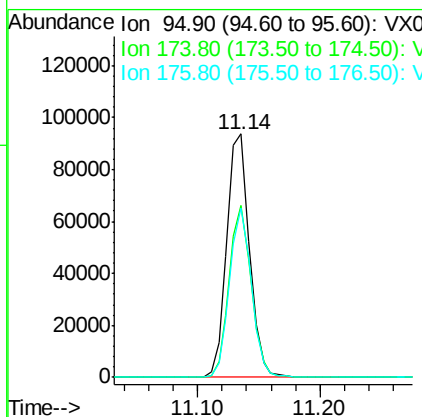
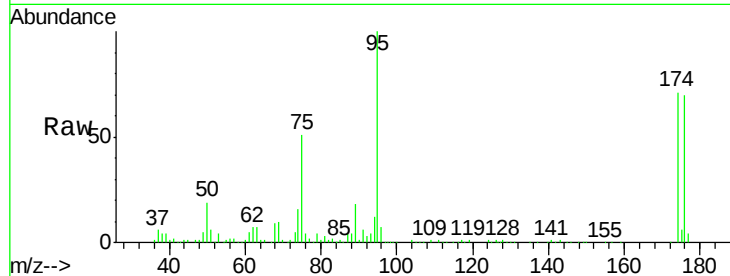




#62  
4-Bromofluorobenzene  
Concen: 44.232 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.00 min  
Lab File: VX012758.D  
Acq: 02 Oct 2019 14:05

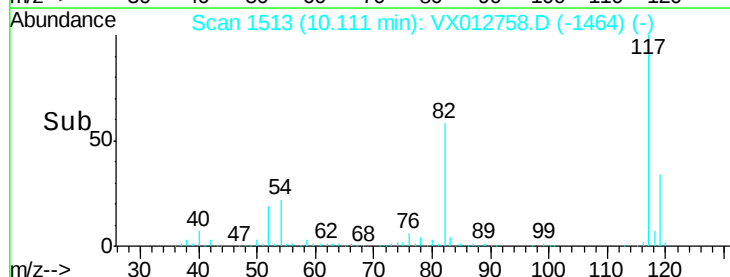
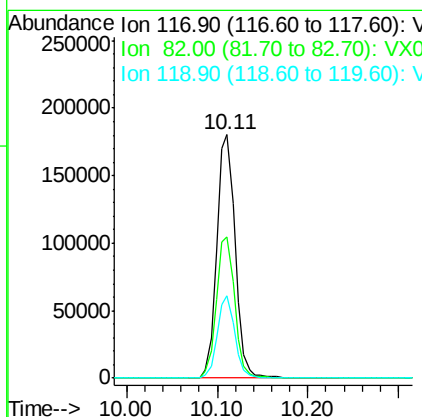
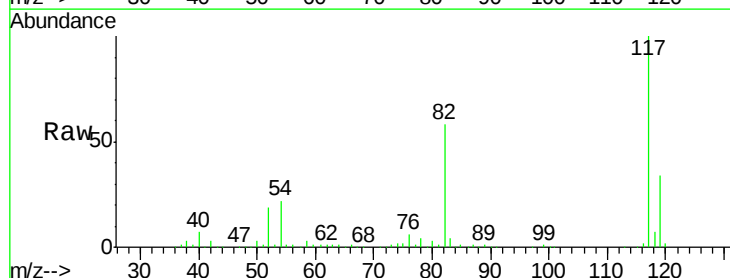
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-1

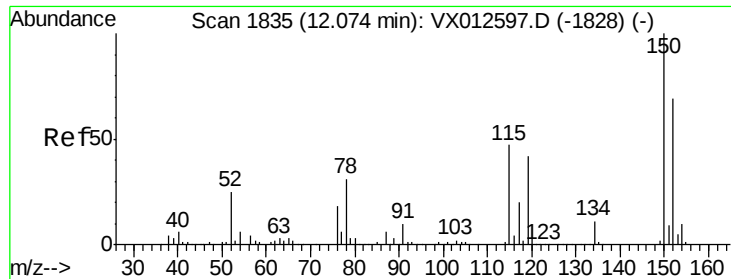
Tot Ion: 95 Resp: 120297  
Ion Ratio Lower Upper  
95 100  
174 68.5 0.0 140.0  
176 67.0 0.0 135.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX012758.D  
Acq: 02 Oct 2019 14:05

Tgt Ion: 117 Resp: 255896  
Ion Ratio Lower Upper  
117 100  
82 58.1 45.9 68.9  
119 33.9 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012758.D

Acq: 02 Oct 2019 14:05

Instrument :

MSVOA\_X

ClientSampleId :

MW-1

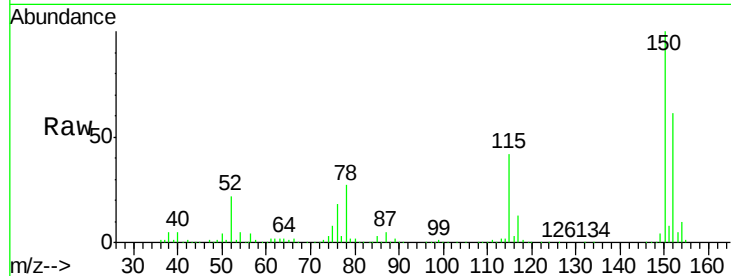
Tot Ion:152 Resp: 98019

Ion Ratio Lower Upper

152 100

115 65.3 44.1 132.3

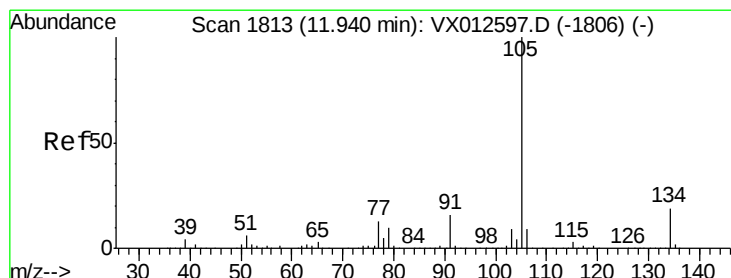
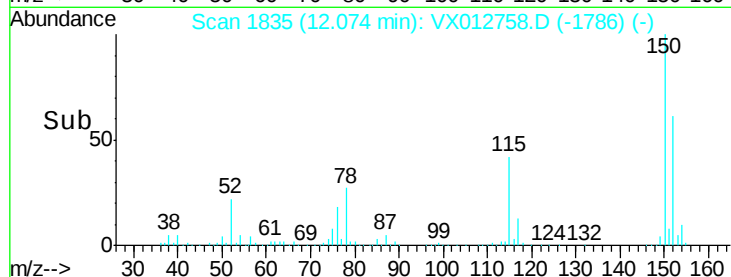
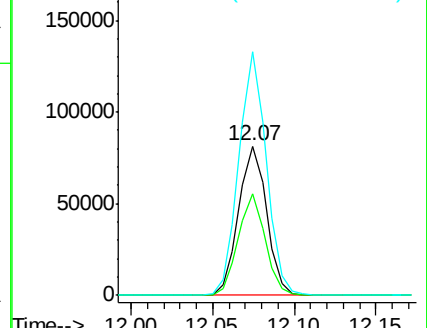
150 159.7 0.0 343.8



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



#85

sec-Butylbenzene

Concen: 0.372 ug/l

RT: 11.95 min Scan# 1814

Delta R.T. 0.01 min

Lab File: VX012758.D

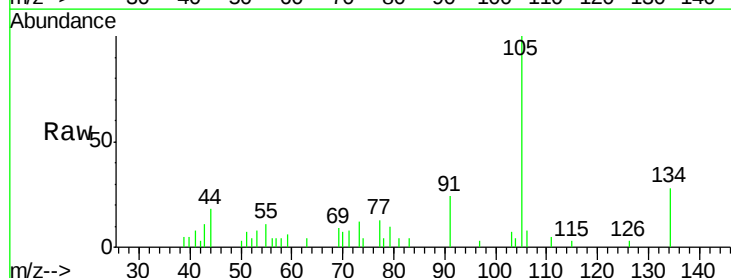
Acq: 02 Oct 2019 14:05

Tgt Ion:105 Resp: 2795

Ion Ratio Lower Upper

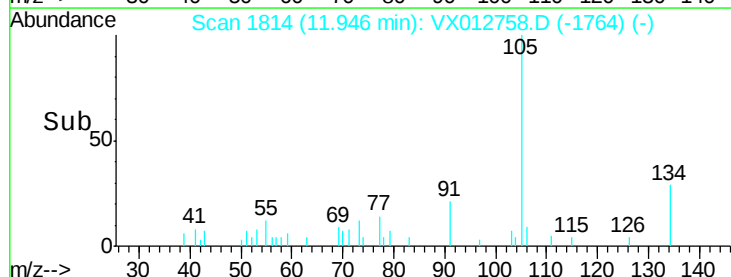
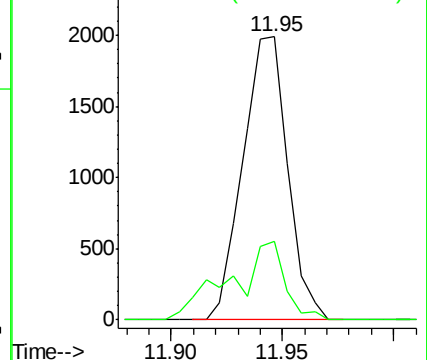
105 100

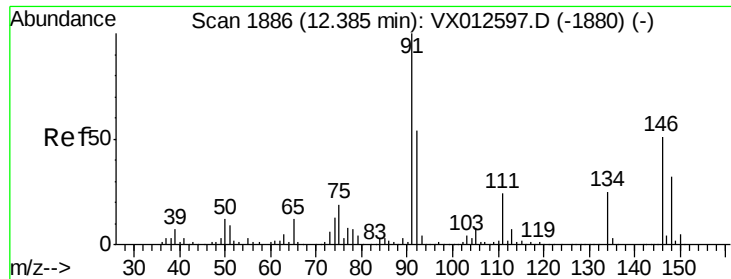
134 33.7 9.8 29.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#91  
 1,2-Dichlorobenzene  
 Concen: 0.353 ug/l  
 RT: 12.39 min Scan# 1886  
 Delta R.T. 0.00 min  
 Lab File: VX012758.D  
 Acq: 02 Oct 2019 14:05

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-1

Tot Ion:146 Resp: 1148  
 Ion Ratio Lower Upper  
 146 100  
 111 43.6 22.1 66.1  
 148 53.3 31.3 93.9

