

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042420\  
 Data File : VX015942.D  
 Acq On : 24 Apr 2020 19:44  
 Operator : JC/SP  
 Sample : L2414-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ST006MW081-200422

Quant Time: Apr 25 06:53:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042420W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 24 13:17:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 130267   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 250243   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 246533   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 120696   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.04  | 65   | 96106    | 52.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.50% |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 72307    | 52.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.96% |          |
| 50) Toluene-d8              | 8.70  | 98   | 315452   | 54.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.18% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 131683   | 56.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.38% |          |

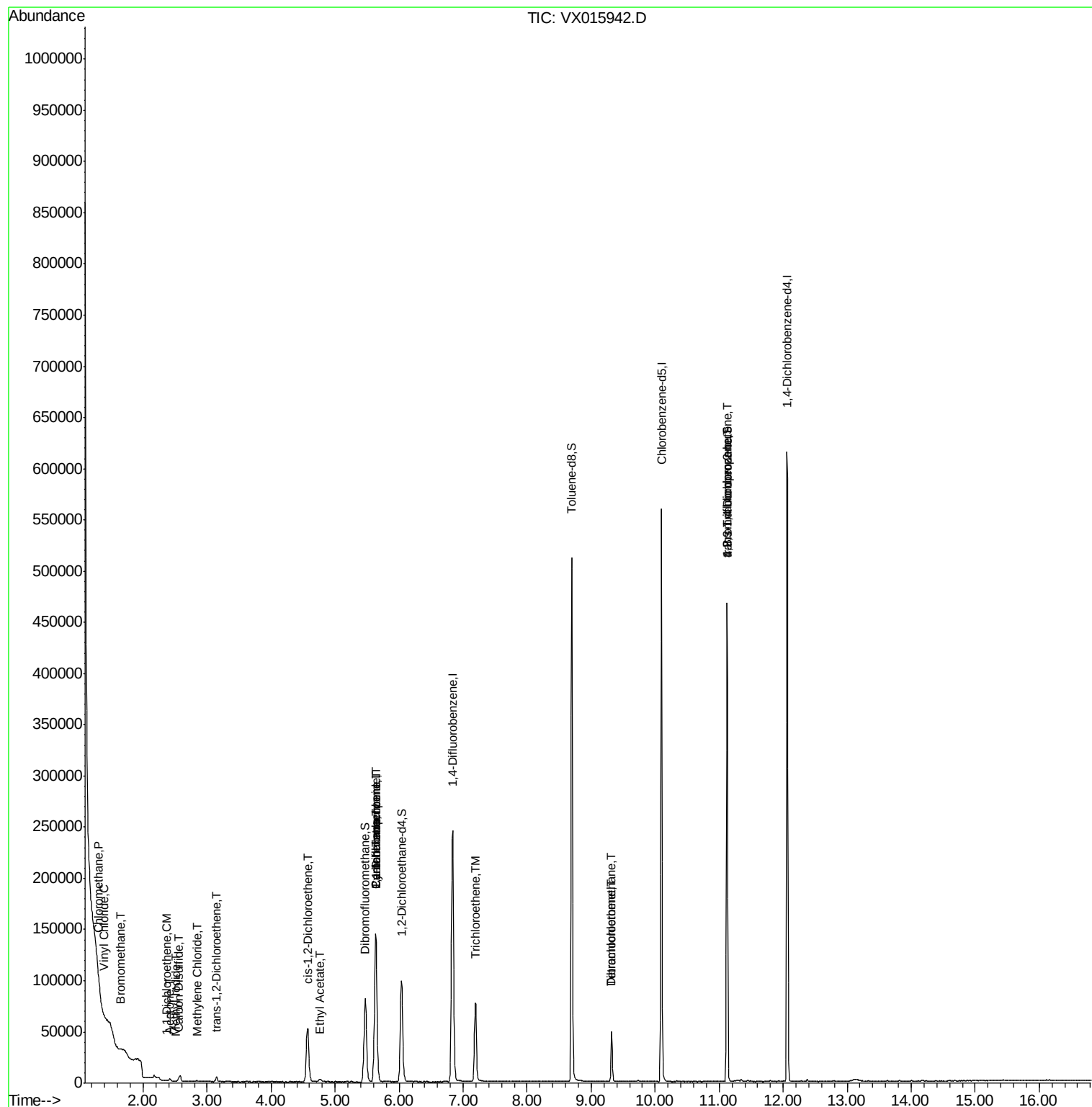
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 1372     | 0.930  | ug/l   | 97     |
| 4) Vinyl Chloride              | 1.39  | 62   | 1073     | 0.568  | ug/l   | 98     |
| 5) Bromomethane                | 1.64  | 94   | 268      | 0.393  | ug/l # | 80     |
| 10) Methyl Iodide              | 2.50  | 142  | 155      | 4.899  | ug/l # | 57     |
| 12) 1,1-Dichloroethene         | 2.37  | 96   | 317      | 0.215  | ug/l # | 62     |
| 16) Acetone                    | 2.42  | 43   | 1906     | 2.763  | ug/l # | 86     |
| 17) Carbon Disulfide           | 2.56  | 76   | 2488     | 0.314  | ug/l   | 97     |
| 20) Methylene Chloride         | 2.84  | 84   | 450      | 0.264  | ug/l # | 87     |
| 21) trans-1,2-Dichloroethene   | 3.15  | 96   | 2269     | 1.377  | ug/l   | 93     |
| 27) cis-1,2-Dichloroethene     | 4.57  | 96   | 35642    | 19.067 | ug/l   | 88     |
| 31) Cyclohexane                | 5.63  | 56   | 3001     | 1.088  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 11636    | 4.872  | ug/l # | 50     |
| 37) Ethyl Acetate              | 4.76  | 43   | 916      | 0.382  | ug/l # | 67     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 14213    | 6.513  | ug/l # | 17     |
| 44) Trichloroethene            | 7.19  | 130  | 29681    | 13.796 | ug/l   | 93     |
| 60) Dibromochloromethane       | 9.32  | 129  | 9555     | 5.434  | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.32  | 164  | 9455     | 3.854  | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 65949    | 25.473 | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 65949    | 57.380 | ug/l # | 14     |

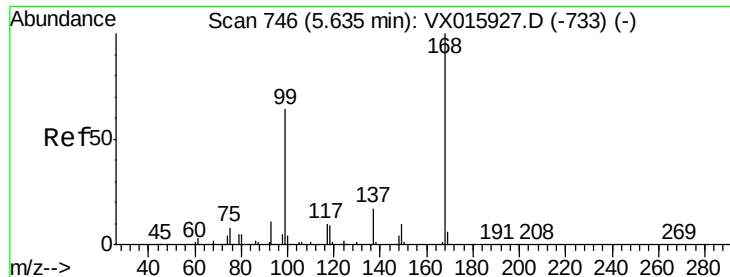
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX042420\  
Data File : VX015942.D  
Acq On : 24 Apr 2020 19:44  
Operator : JC/SP  
Sample : L2414-03  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ST006MW081-200422

Quant Time: Apr 25 06:53:52 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042420W.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 24 13:17:59 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX015942.D

Acq: 24 Apr 2020 19:44

Instrument :

MSVOA\_X

ClientSampleId :

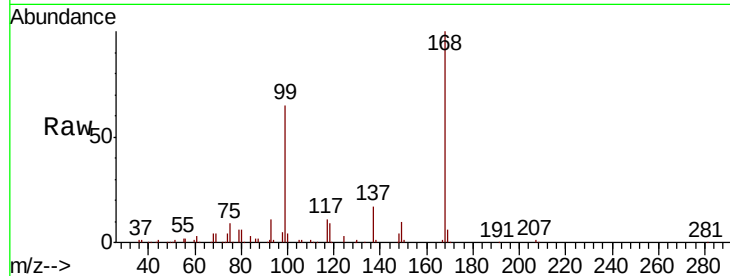
ST006MW081-200422

Tot Ion:168 Resp: 130267

Ion Ratio Lower Upper

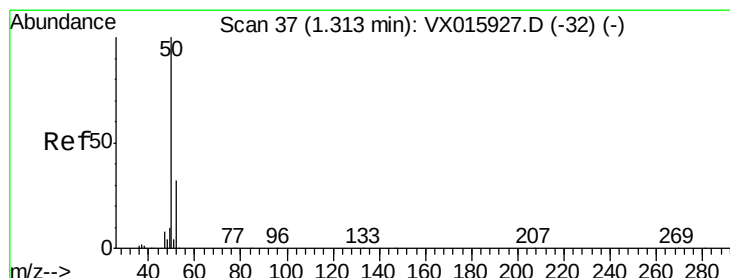
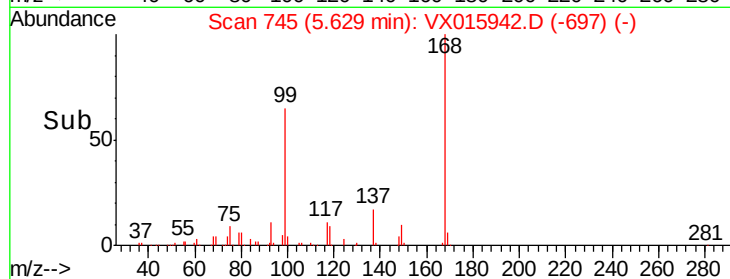
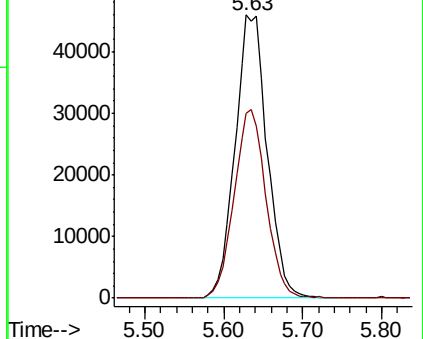
168 100

99 65.3 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.930 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX015942.D

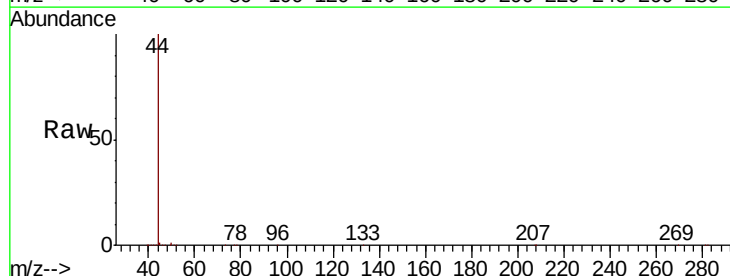
Acq: 24 Apr 2020 19:44

Tgt Ion: 50 Resp: 1372

Ion Ratio Lower Upper

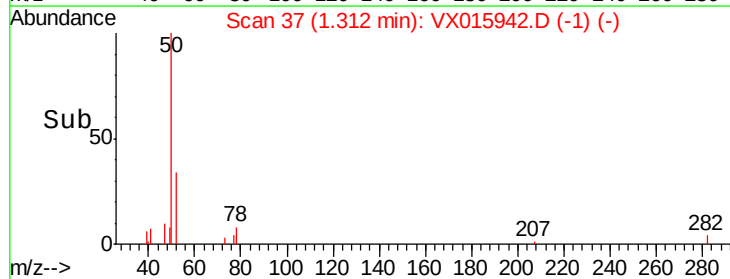
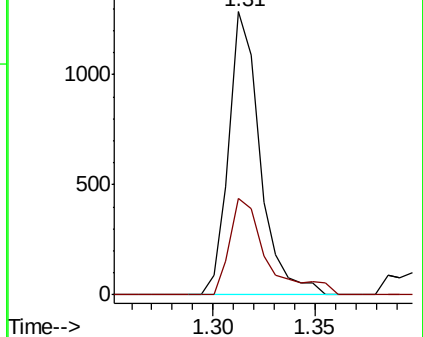
50 100

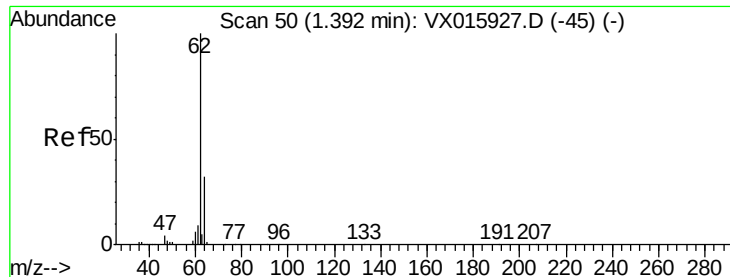
52 34.1 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.568 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX015942.D

Acq: 24 Apr 2020 19:44

Instrument :

MSVOA\_X

ClientSampleId :

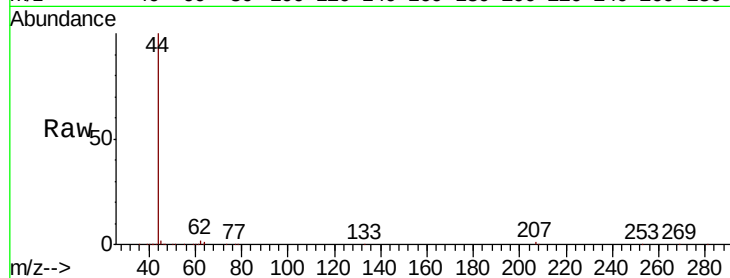
ST006MW081-200422

Tot Ion: 62 Resp: 1073

Ion Ratio Lower Upper

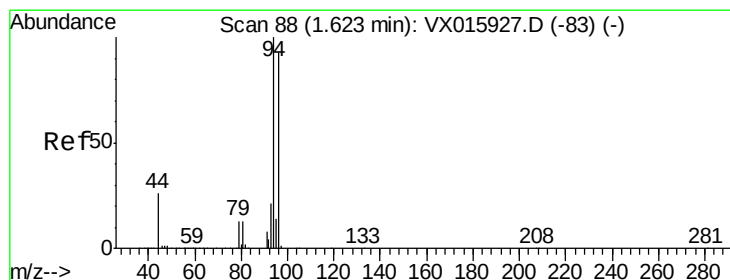
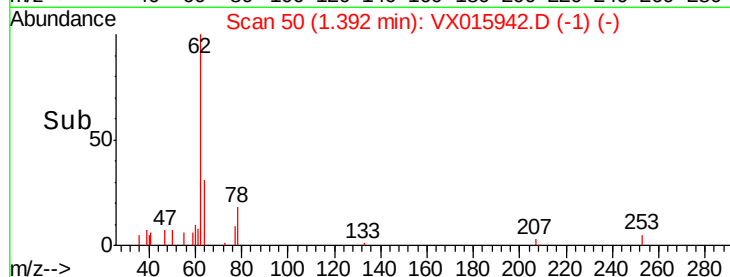
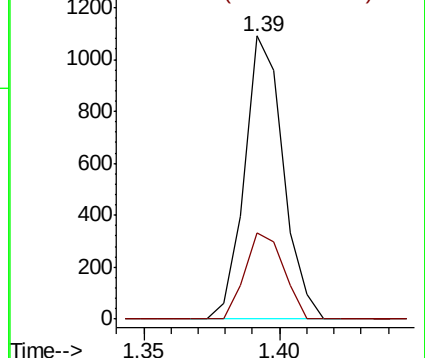
62 100

64 30.6 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.393 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX015942.D

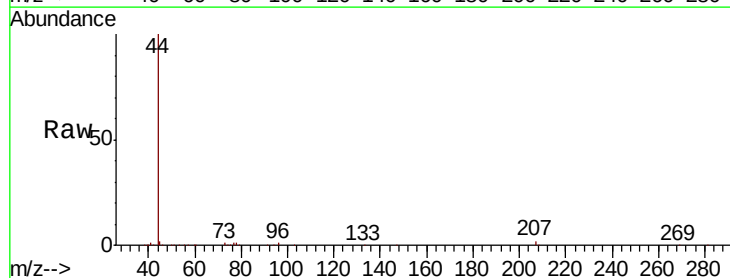
Acq: 24 Apr 2020 19:44

Tgt Ion: 94 Resp: 268

Ion Ratio Lower Upper

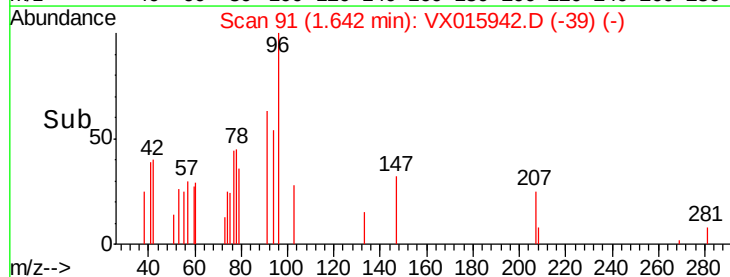
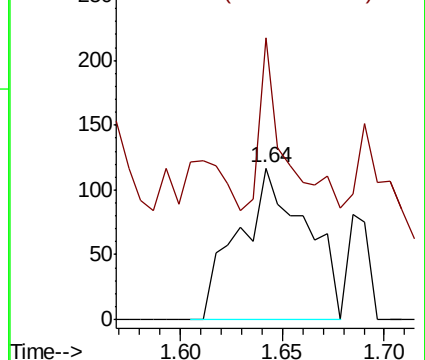
94 100

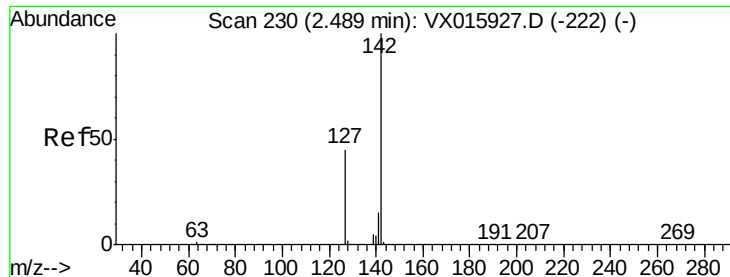
96 112.8 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

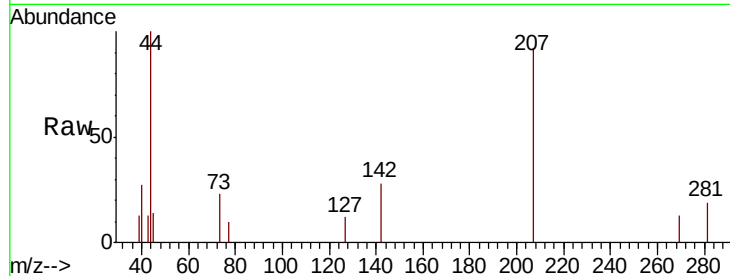




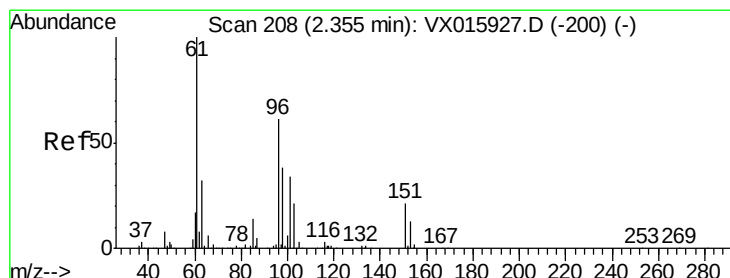
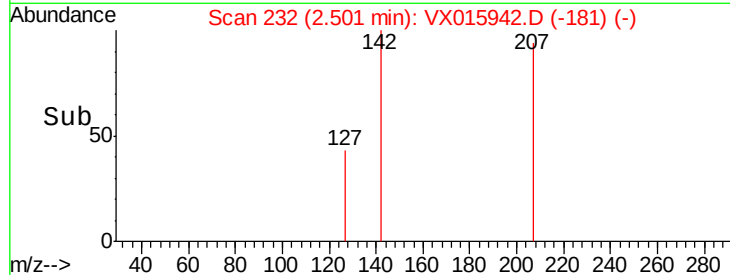
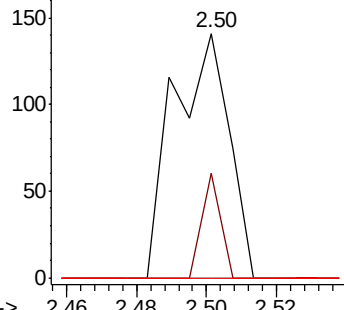
#10  
Methyl Iodide  
Concen: 4.899 ug/l  
RT: 2.50 min Scan# 232  
Delta R.T. 0.01 min  
Lab File: VX015942.D  
Acq: 24 Apr 2020 19:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
ST006MW081-200422

Tot Ion:142 Resp: 155  
Ion Ratio Lower Upper  
142 100  
127 14.2 34.4 51.6#  
141 0.0 11.5 17.3#

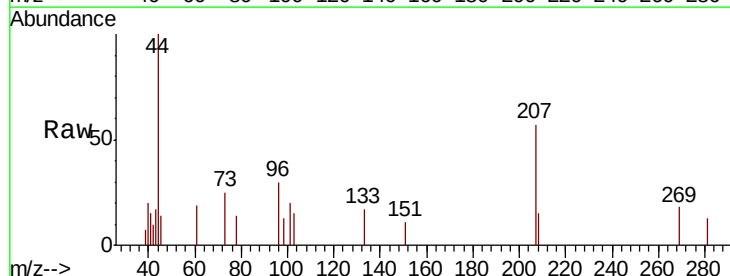


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

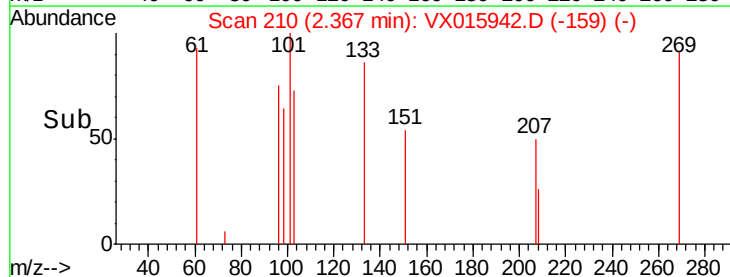
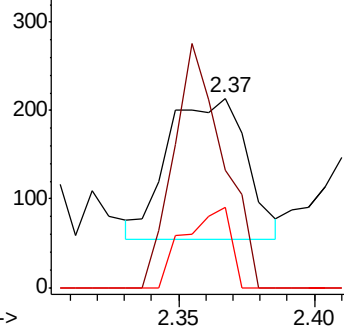


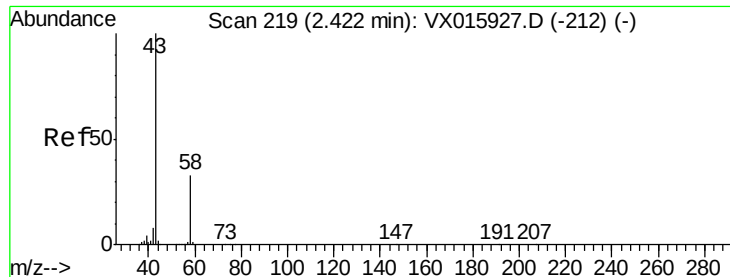
#12  
1,1-Dichloroethene  
Concen: 0.215 ug/l  
RT: 2.37 min Scan# 210  
Delta R.T. 0.01 min  
Lab File: VX015942.D  
Acq: 24 Apr 2020 19:44

Tgt Ion: 96 Resp: 317  
Ion Ratio Lower Upper  
96 100  
61 95.7 131.2 196.8#  
98 65.9 50.2 75.4



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: 2.763 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX015942.D

Acq: 24 Apr 2020 19:44

Instrument :

MSVOA\_X

ClientSampleId :

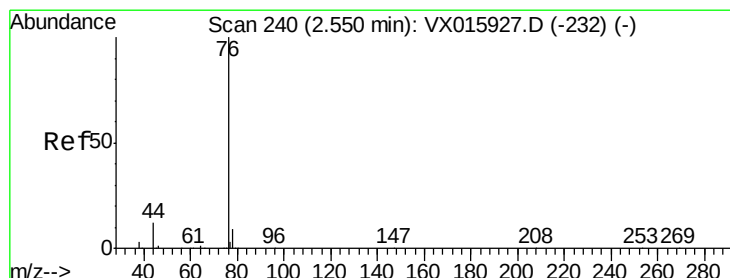
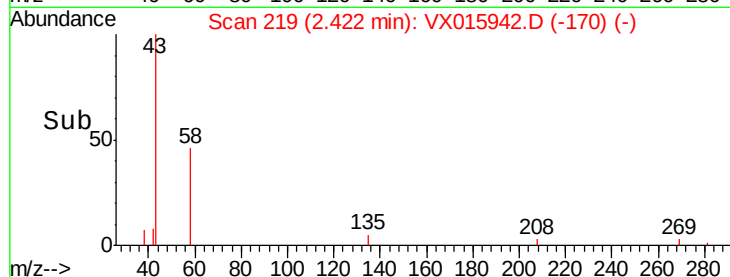
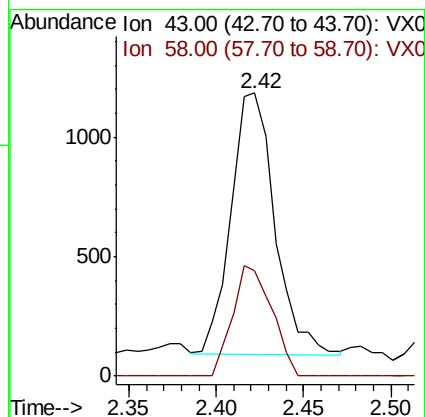
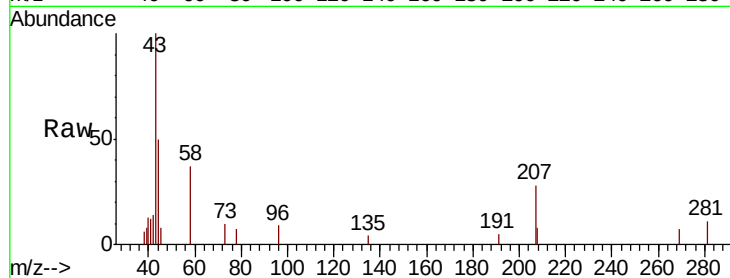
ST006MW081-200422

Tot Ion: 43 Resp: 1906

Ion Ratio Lower Upper

43 100

58 40.7 26.4 39.6#



#17

Carbon Disulfide

Concen: 0.314 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX015942.D

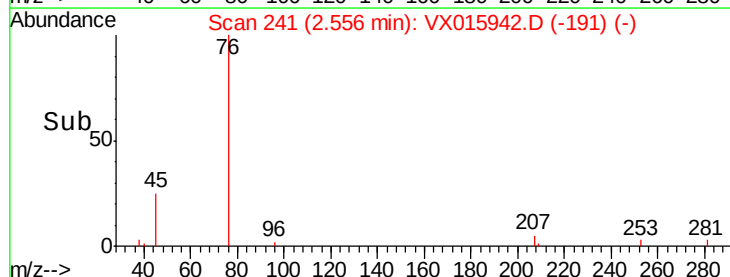
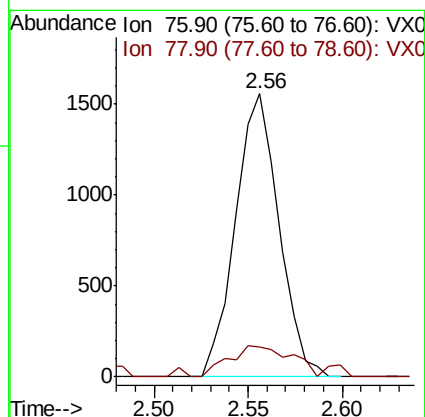
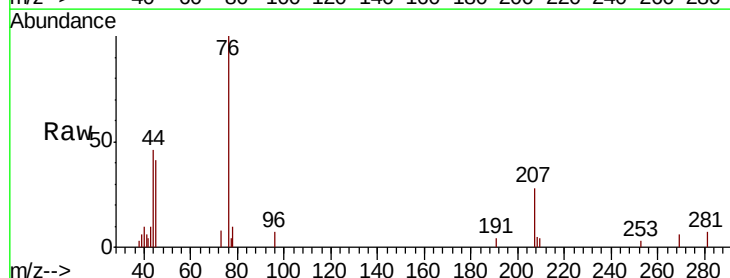
Acq: 24 Apr 2020 19:44

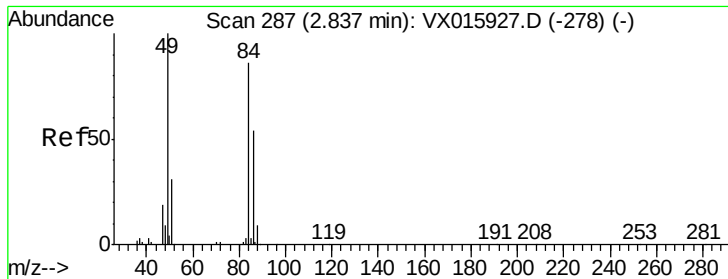
Tgt Ion: 76 Resp: 2488

Ion Ratio Lower Upper

76 100

78 10.3 7.4 11.2

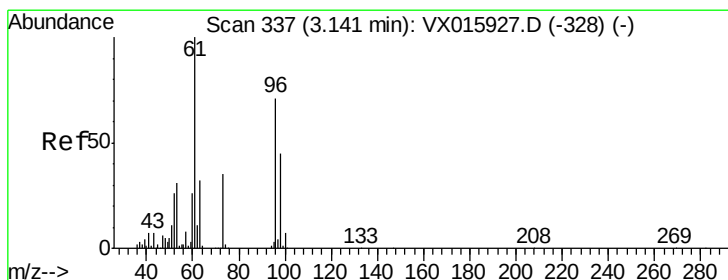
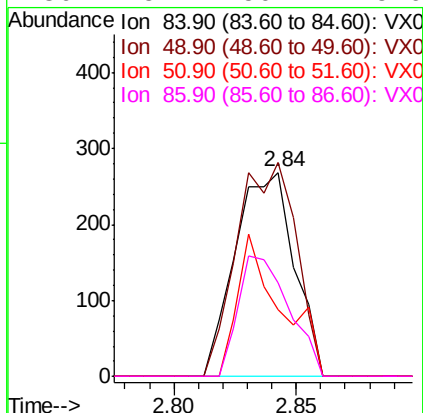
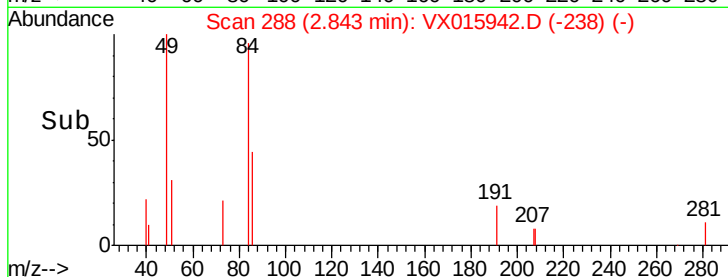
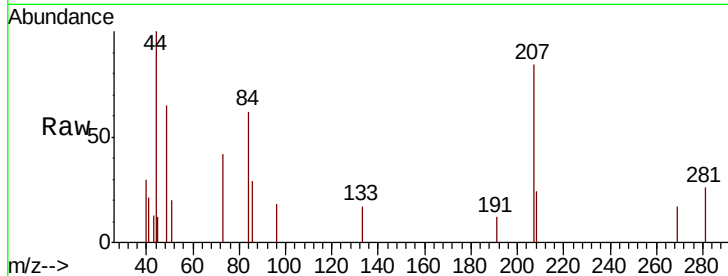




#20  
Methylene Chloride  
Concen: 0.264 ug/l  
RT: 2.84 min Scan# 288  
Delta R.T. 0.01 min  
Lab File: VX015942.D  
Acq: 24 Apr 2020 19:44

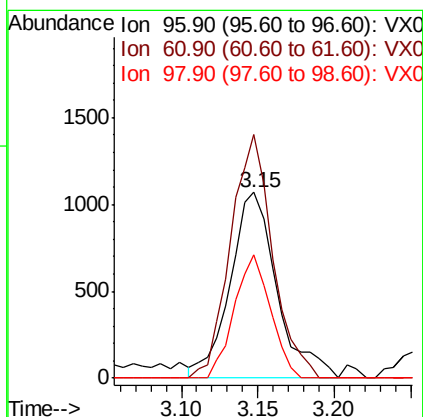
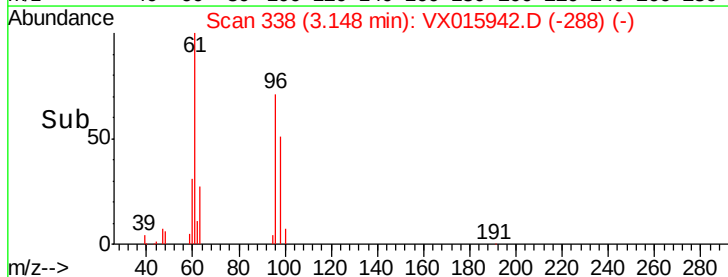
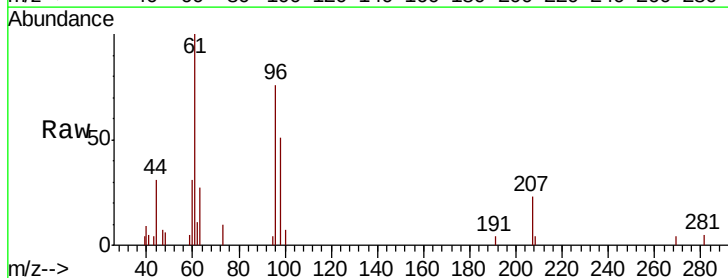
Instrument :  
MSVOA\_X  
ClientSampleId :  
ST006MW081-200422

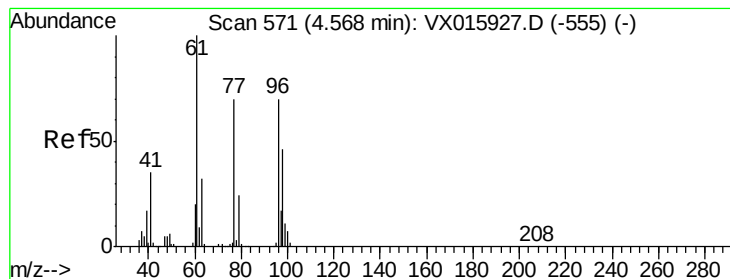
Tot Ion: 84 Resp: 450  
Ion Ratio Lower Upper  
84 100  
49 104.5 93.0 139.6  
51 32.7 28.6 43.0  
86 45.7 50.4 75.6#



#21  
trans-1,2-Dichloroethene  
Concen: 1.377 ug/l  
RT: 3.15 min Scan# 338  
Delta R.T. 0.01 min  
Lab File: VX015942.D  
Acq: 24 Apr 2020 19:44

Tgt Ion: 96 Resp: 2269  
Ion Ratio Lower Upper  
96 100  
61 131.3 112.7 169.1  
98 66.5 51.0 76.4



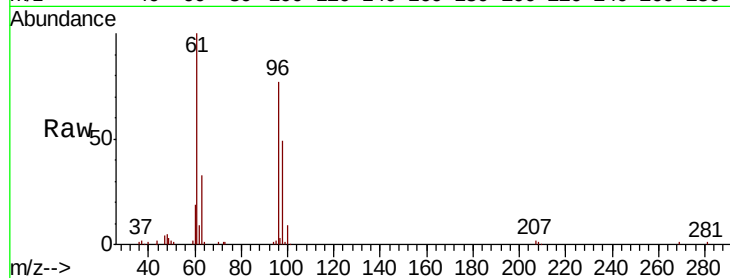


#27

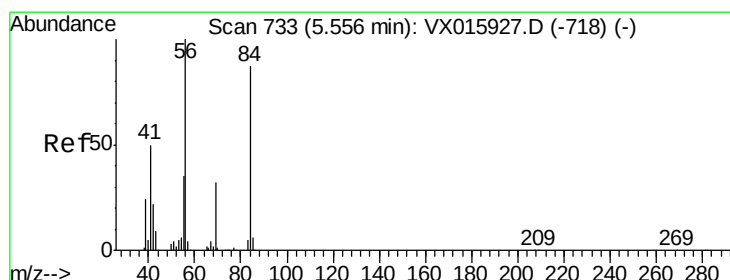
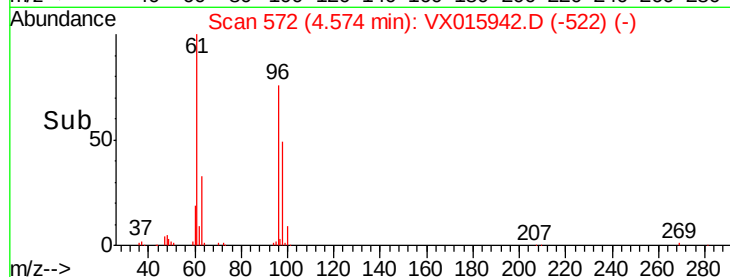
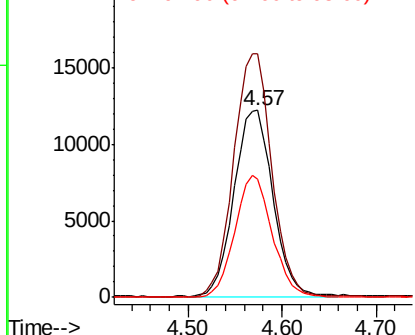
cis-1,2-Dichloroethene  
 Concen: 19.067 ug/l  
 RT: 4.57 min Scan# 572  
 Delta R.T. 0.01 min  
 Lab File: VX015942.D  
 Acq: 24 Apr 2020 19:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ST006MW081-200422

Tot Ion: 96 Resp: 35642  
 Ion Ratio Lower Upper  
 96 100  
 61 126.8 0.0 293.4  
 98 61.8 0.0 129.0



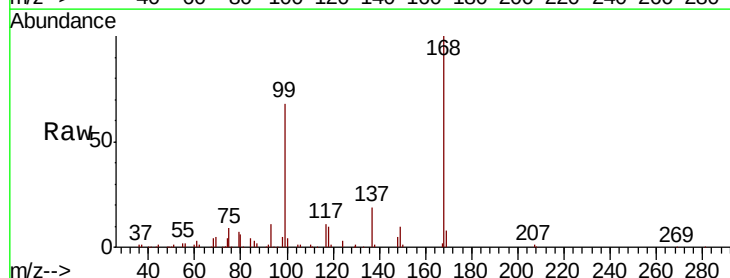
Abundance Ion 95.90 (95.60 to 96.60): VX0  
 Ion 60.90 (60.60 to 61.60): VX0  
 Ion 97.90 (97.60 to 98.60): VX0



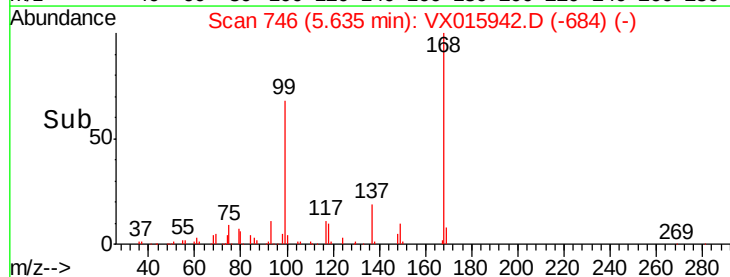
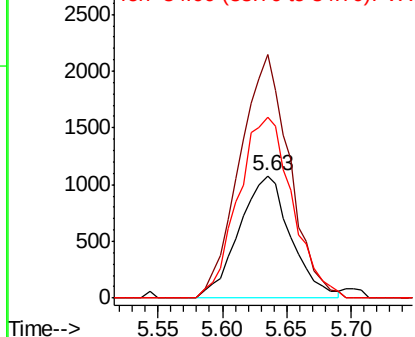
#31

Cyclohexane  
 Concen: 1.088 ug/l  
 RT: 5.63 min Scan# 746  
 Delta R.T. 0.08 min  
 Lab File: VX015942.D  
 Acq: 24 Apr 2020 19:44

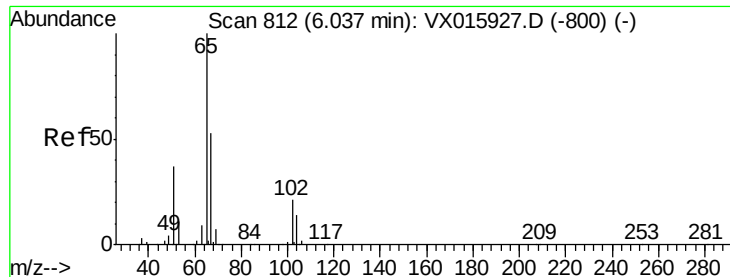
Tgt Ion: 56 Resp: 3001  
 Ion Ratio Lower Upper  
 56 100  
 69 199.5 25.4 38.0#  
 84 148.7 69.5 104.3#



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



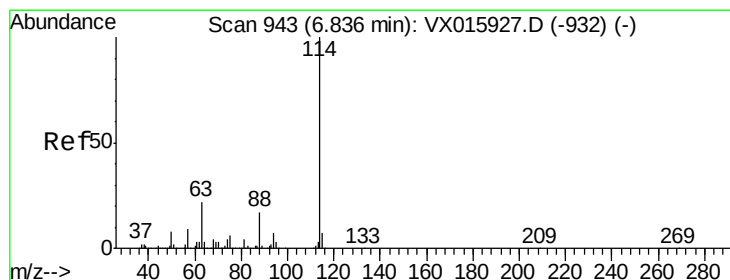
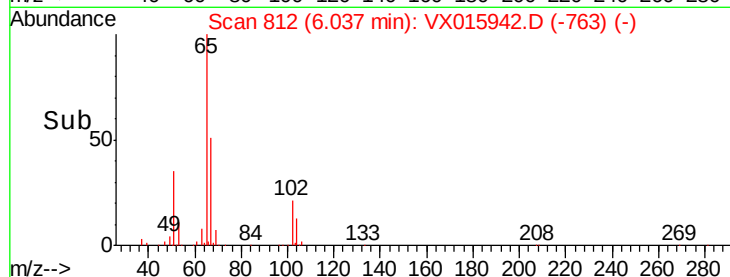
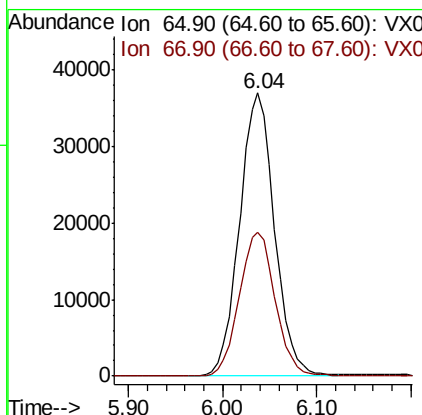
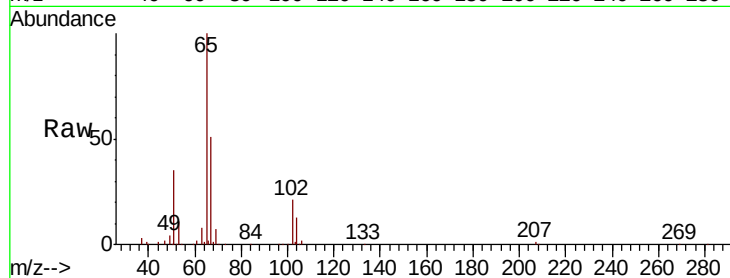




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.249 ug/l  
 RT: 6.04 min Scan# 812  
 Delta R.T. -0.00 min  
 Lab File: VX015942.D  
 Acq: 24 Apr 2020 19:44

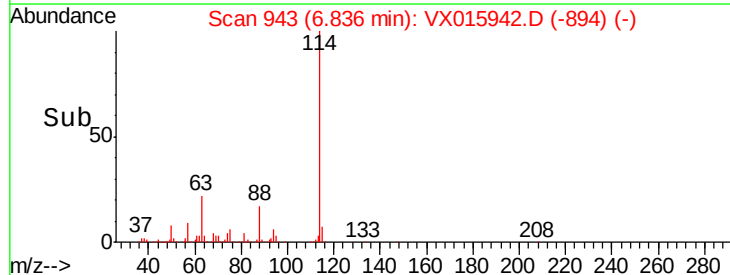
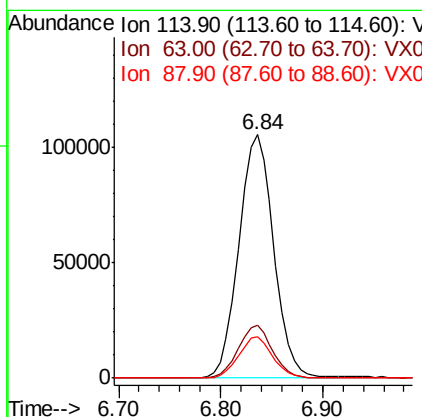
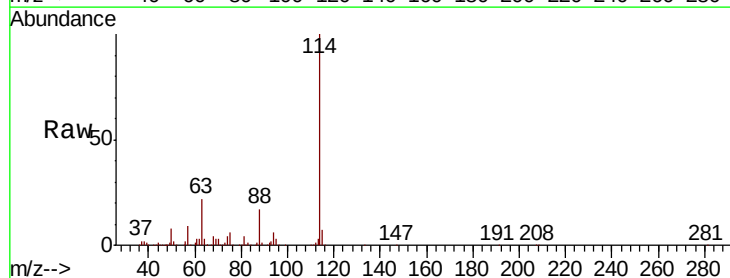
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ST006MW081-200422

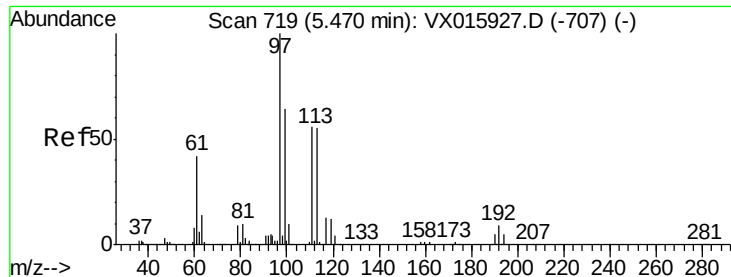
Tot Ion: 65 Resp: 96106  
 Ion Ratio Lower Upper  
 65 100  
 67 52.1 0.0 106.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. -0.00 min  
 Lab File: VX015942.D  
 Acq: 24 Apr 2020 19:44

Tgt Ion: 114 Resp: 250243  
 Ion Ratio Lower Upper  
 114 100  
 63 21.8 0.0 44.4  
 88 17.1 0.0 34.2





#35

Dibromofluoromethane

Concen: 52.980 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX015942.D

Acq: 24 Apr 2020 19:44

Instrument :

MSVOA\_X

ClientSampleId :

ST006MW081-200422

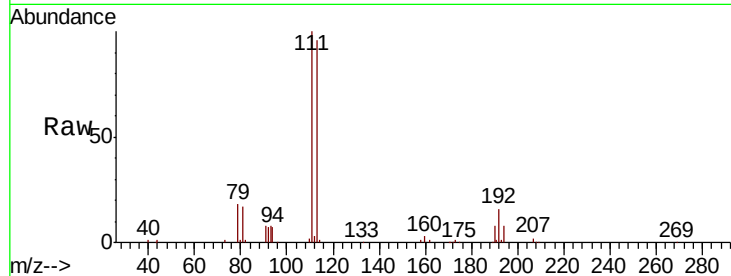
Tot Ion:113 Resp: 72307

Ion Ratio Lower Upper

113 100

111 104.4 81.2 121.8

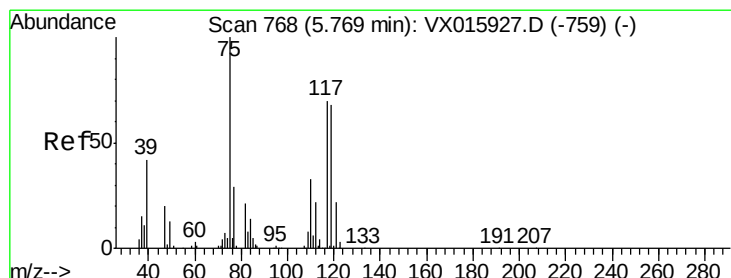
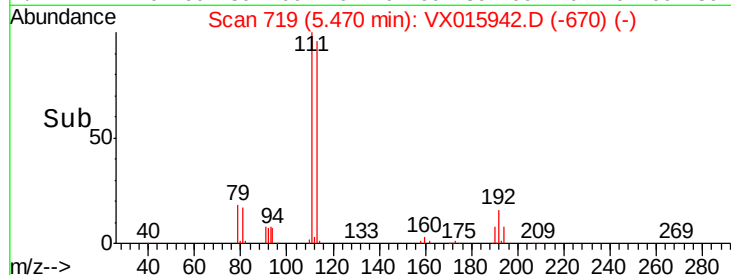
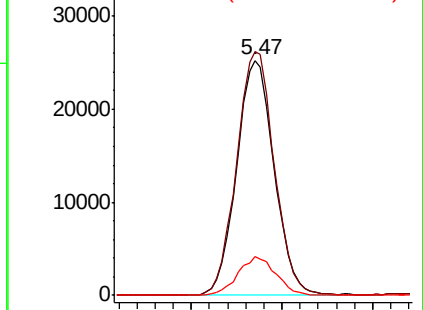
192 16.6 13.6 20.4



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: 4.872 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX015942.D

Acq: 24 Apr 2020 19:44

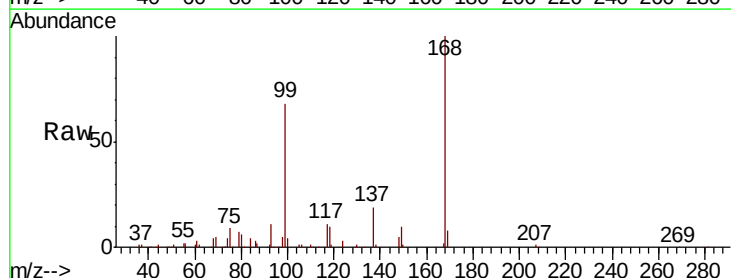
Tgt Ion: 75 Resp: 11636

Ion Ratio Lower Upper

75 100

110 8.7 17.1 51.3#

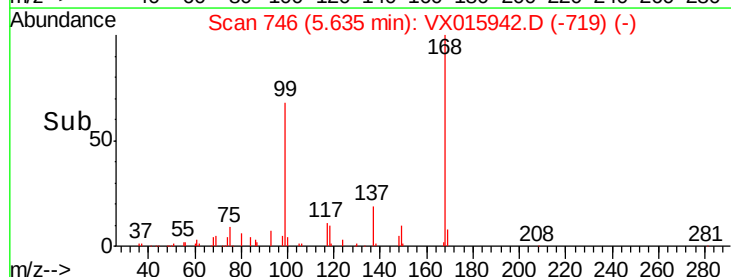
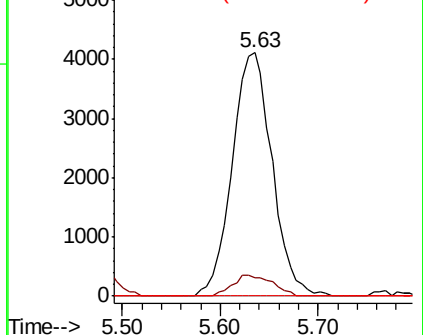
77 0.0 25.0 37.4#

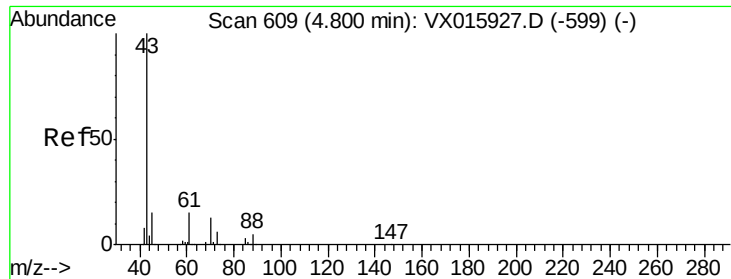


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

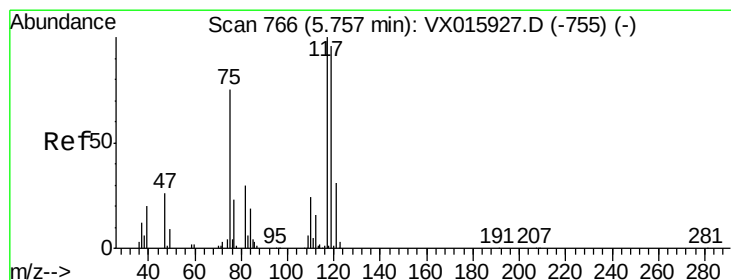
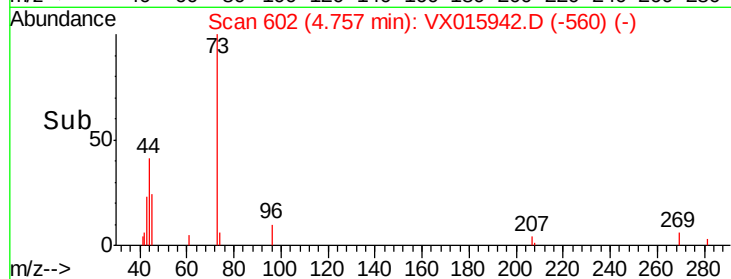
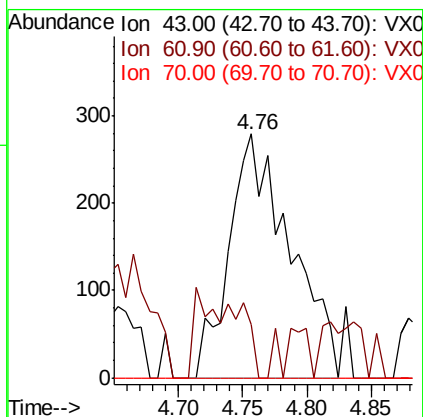
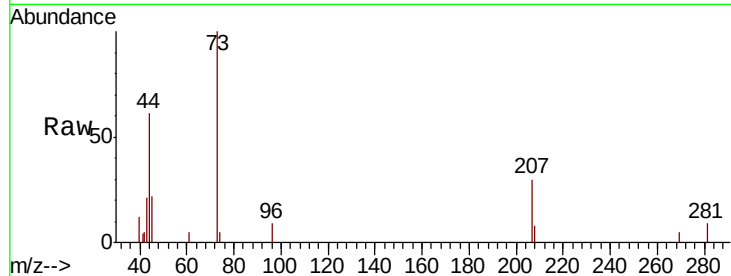




#37  
Ethyl Acetate  
Concen: 0.382 ug/l  
RT: 4.76 min Scan# 602  
Delta R.T. -0.04 min  
Lab File: VX015942.D  
Acq: 24 Apr 2020 19:44

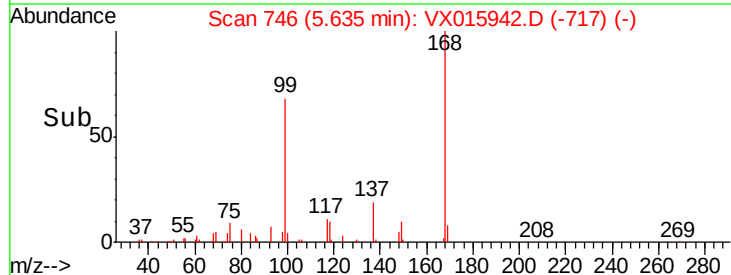
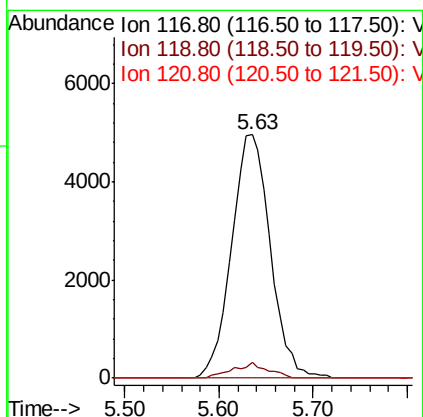
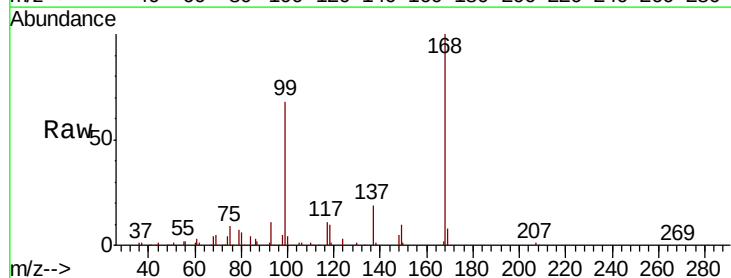
Instrument :  
MSVOA\_X  
ClientSampleId :  
ST006MW081-200422

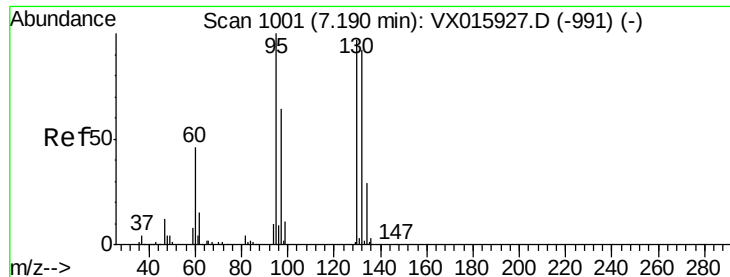
Tot Ion: 43 Resp: 916  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.6 17.4#  
70 0.0 9.8 14.6#



#38  
Carbon Tetrachloride  
Concen: 6.513 ug/l  
RT: 5.63 min Scan# 746  
Delta R.T. -0.12 min  
Lab File: VX015942.D  
Acq: 24 Apr 2020 19:44

Tgt Ion: 117 Resp: 14213  
Ion Ratio Lower Upper  
117 100  
119 6.5 77.0 115.6#  
121 0.0 25.0 37.4#





#44

Trichloroethene

Concen: 13.796 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX015942.D

Acq: 24 Apr 2020 19:44

Instrument :

MSVOA\_X

ClientSampleId :

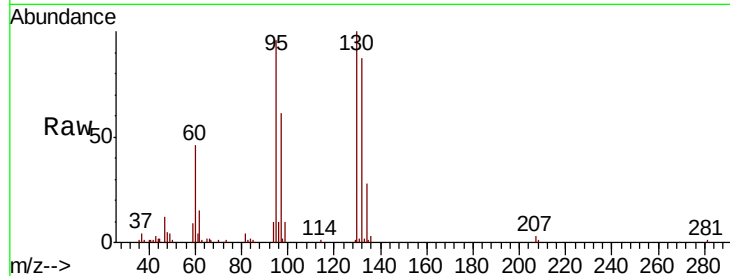
ST006MW081-200422

Tot Ion:130 Resp: 29681

Ion Ratio Lower Upper

130 100

95 95.9 0.0 205.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

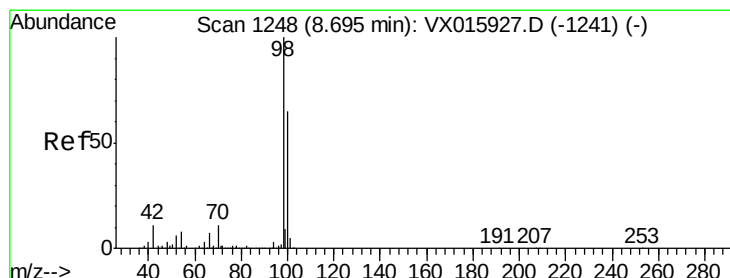
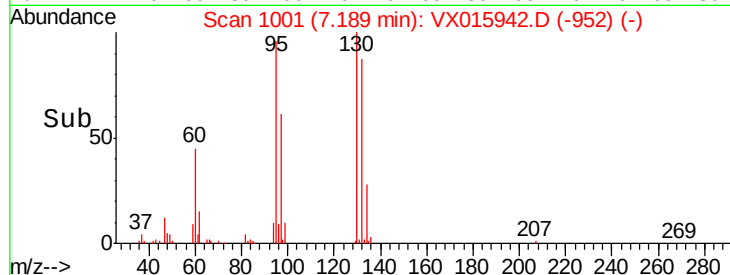
15000

10000

5000

0

Time-->



#50

Toluene-d8

Concen: 54.595 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX015942.D

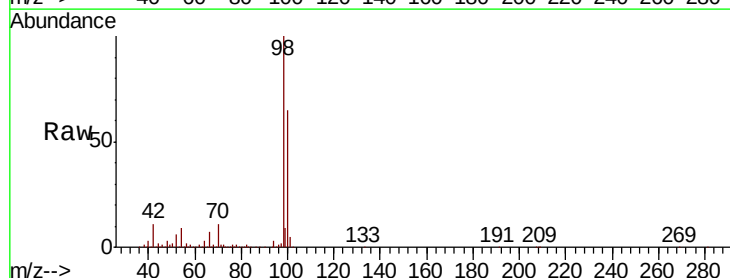
Acq: 24 Apr 2020 19:44

Tgt Ion: 98 Resp: 315452

Ion Ratio Lower Upper

98 100

100 66.2 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

200000

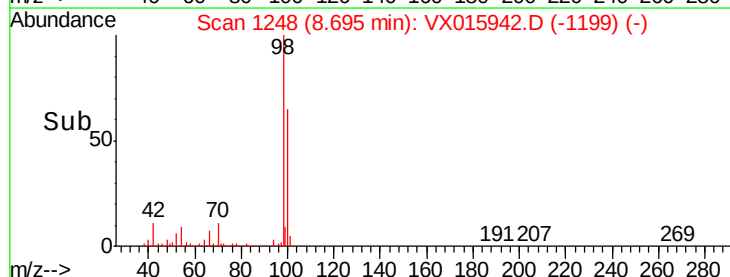
150000

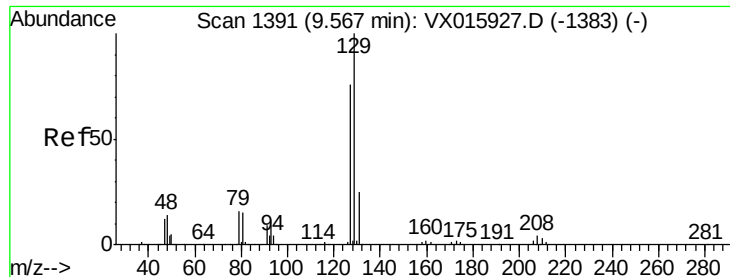
100000

50000

0

Time-->





#60

Dibromochloromethane

Concen: 5.434 ug/l

RT: 9.32 min Scan# 1351

Delta R.T. -0.24 min

Lab File: VX015942.D

Acq: 24 Apr 2020 19:44

Instrument :

MSVOA\_X

ClientSampleId :

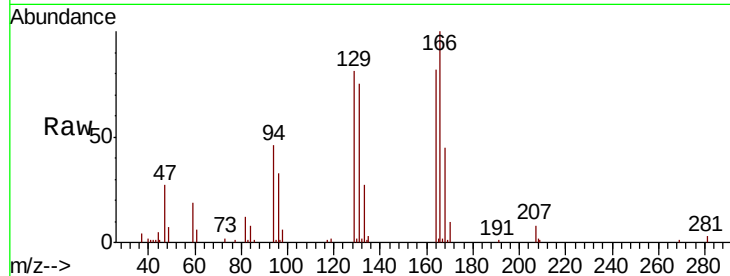
ST006MW081-200422

Tot Ion:129 Resp: 9555

Ion Ratio Lower Upper

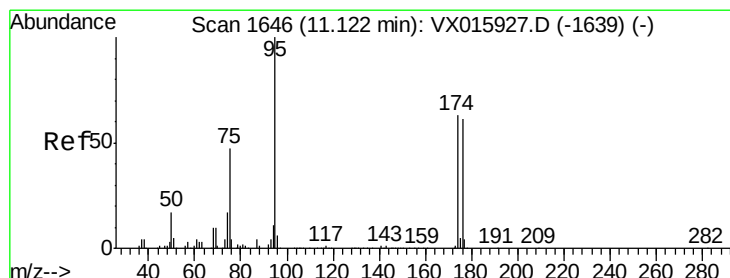
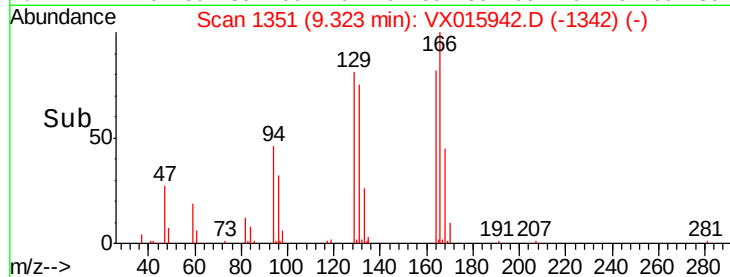
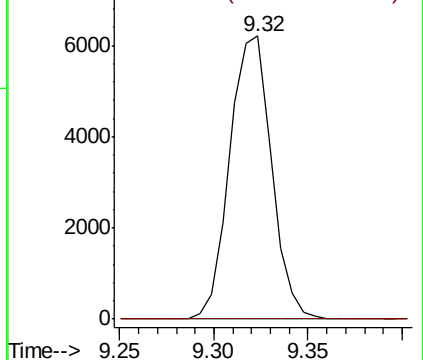
129 100

127 0.0 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 56.188 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX015942.D

Acq: 24 Apr 2020 19:44

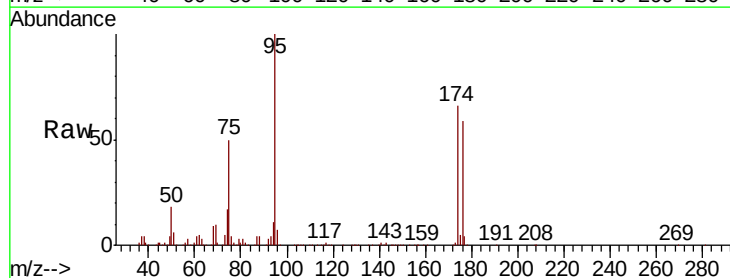
Tgt Ion: 95 Resp: 131683

Ion Ratio Lower Upper

95 100

174 66.4 0.0 133.6

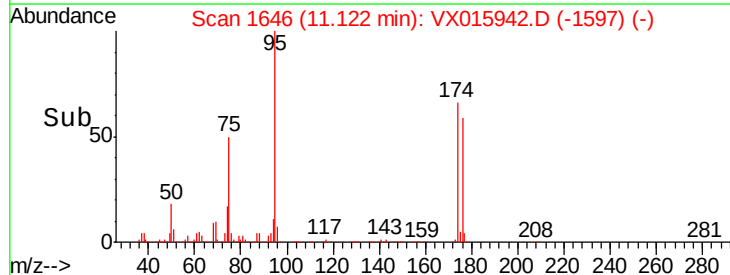
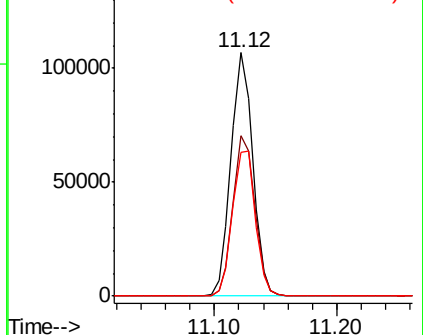
176 62.7 0.0 126.0

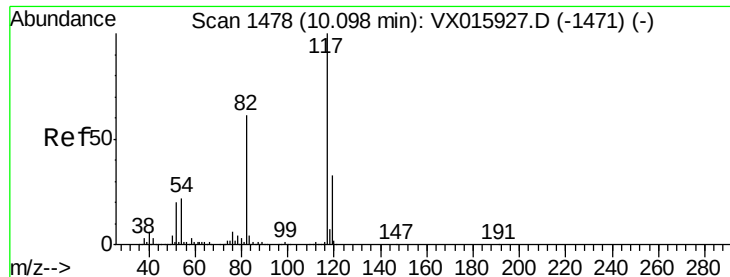


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

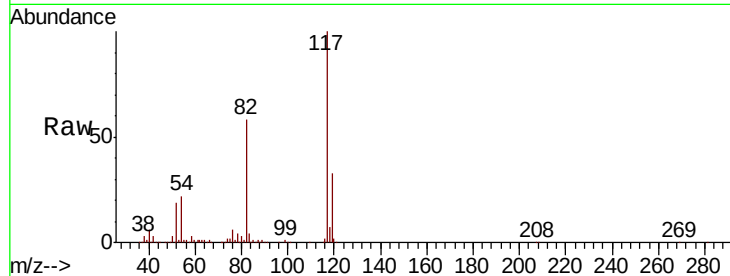




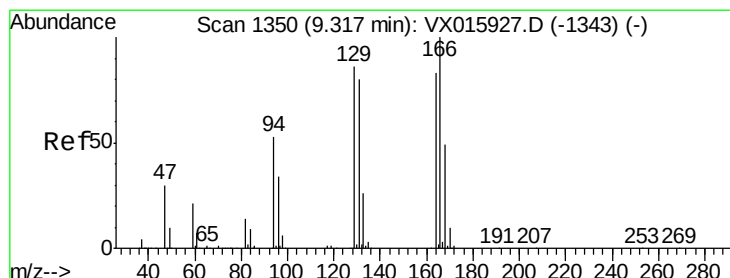
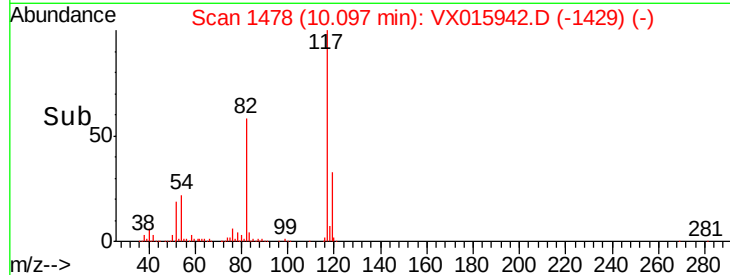
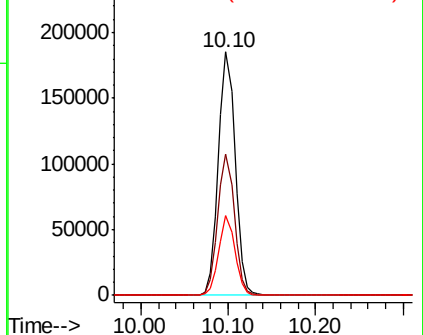
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX015942.D  
Acq: 24 Apr 2020 19:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
ST006MW081-200422

Tot Ion:117 Resp: 246533  
Ion Ratio Lower Upper  
117 100  
82 58.1 48.5 72.7  
119 32.6 26.2 39.4

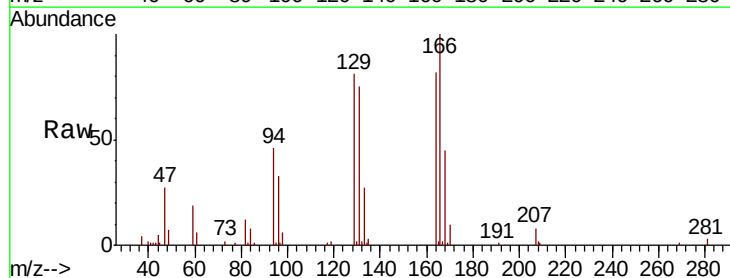


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

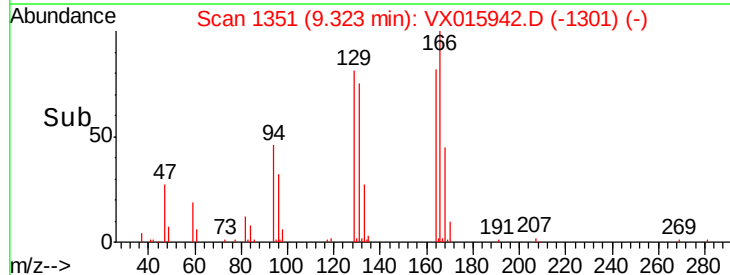
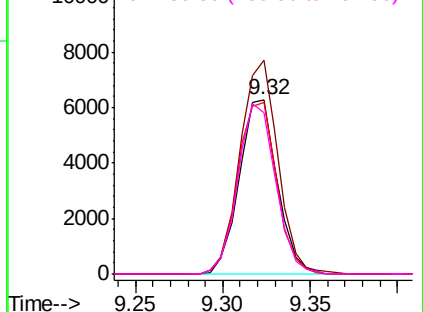


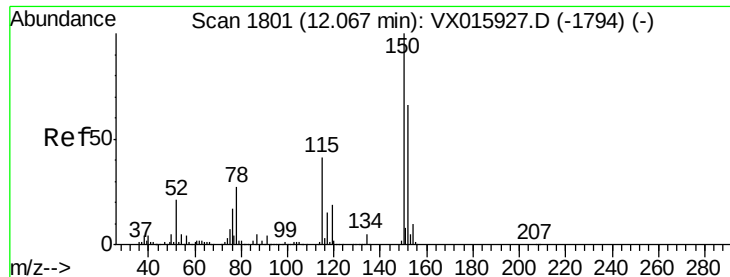
#64  
Tetrachloroethene  
Concen: 3.854 ug/l  
RT: 9.32 min Scan# 1351  
Delta R.T. 0.01 min  
Lab File: VX015942.D  
Acq: 24 Apr 2020 19:44

Tgt Ion:164 Resp: 9455  
Ion Ratio Lower Upper  
164 100  
166 122.5 96.7 145.1  
129 98.7 82.8 124.2  
131 92.4 77.0 115.4



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VX015942.D

Acq: 24 Apr 2020 19:44

Instrument :

MSVOA\_X

ClientSampleId :

ST006MW081-200422

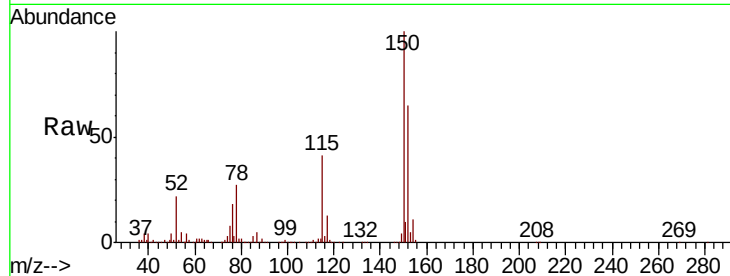
Tot Ion:152 Resp: 120696

Ion Ratio Lower Upper

152 100

115 64.4 44.1 132.4

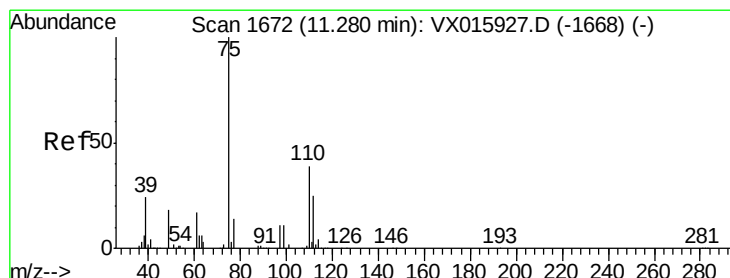
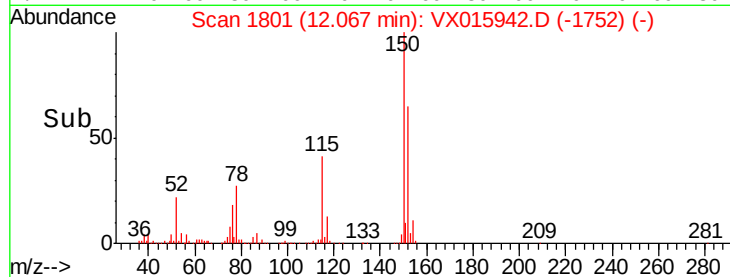
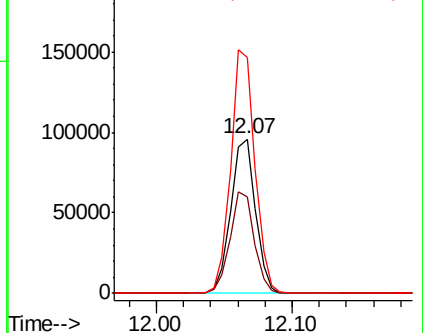
150 155.5 0.0 343.6



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: 25.473 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX015942.D

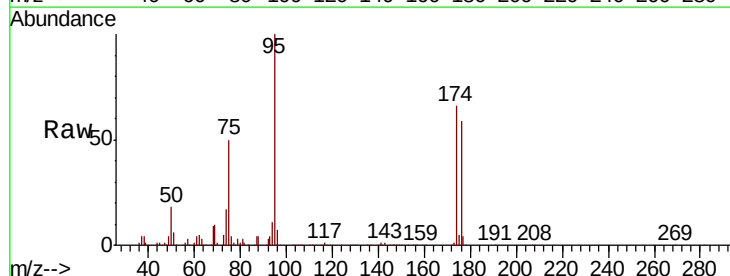
Acq: 24 Apr 2020 19:44

Tgt Ion: 75 Resp: 65949

Ion Ratio Lower Upper

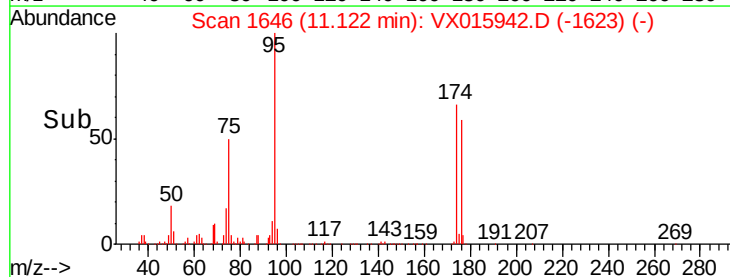
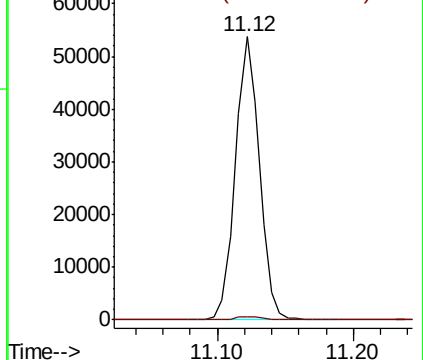
75 100

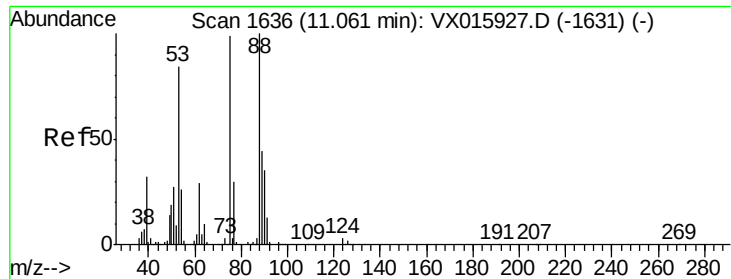
77 1.3 22.1 66.5#



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: 57.380 ug/l  
 RT: 11.12 min Scan# 1646  
 Delta R.T. 0.06 min  
 Lab File: VX015942.D  
 Acq: 24 Apr 2020 19:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ST006MW081-200422

Tot Ion: 75 Resp: 65949  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.7 104.5#  
 89 0.0 36.3 54.5#

