

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX060520\  
 Data File : VX016620.D  
 Acq On : 05 Jun 2020 18:33  
 Operator : JC/SP  
 Sample : L2894-19  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF012MW144-200602

Quant Time: Jun 06 06:03:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 16:31:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 218024   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 349384   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 346065   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 178788   | 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   | 131880   | 48.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.42%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 107502   | 49.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.94%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 424569   | 50.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.40% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 171086   | 52.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.76% |          |

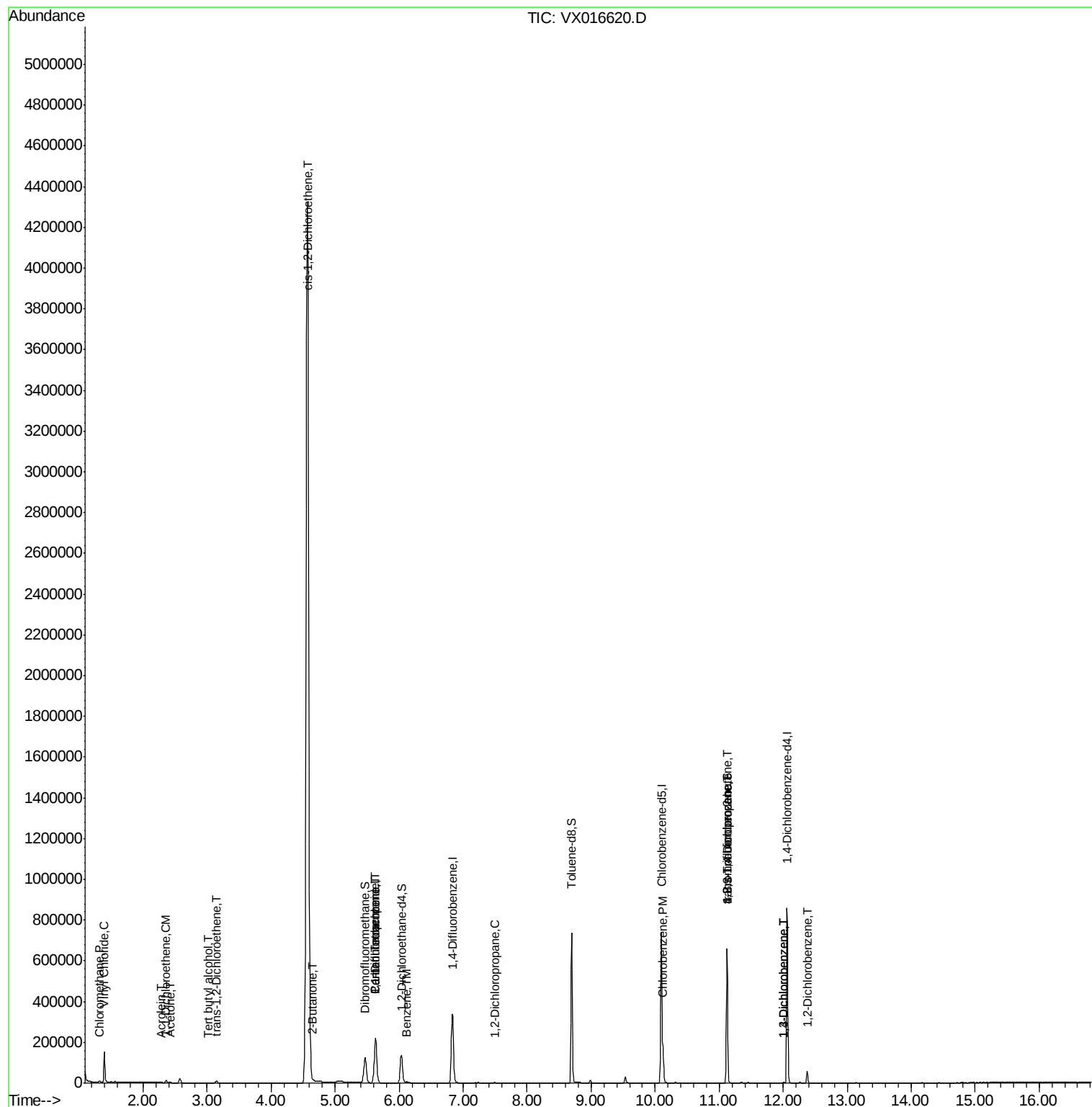
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 1616     | 0.62    | ug/l # | 85     |
| 4) Vinyl Chloride              | 1.39  | 62   | 86354    | 31.49   | ug/l   | 99     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 281      | 0.40    | ug/l # | 72     |
| 12) 1,1-Dichloroethene         | 2.36  | 96   | 4036     | 1.92    | ug/l   | 95     |
| 13) Acrolein                   | 2.28  | 56   | 177      | 0.60    | ug/l # | 1      |
| 16) Acetone                    | 2.42  | 43   | 3674     | 3.10    | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene   | 3.14  | 96   | 4327     | 1.86    | ug/l   | 83     |
| 25) 2-Butanone                 | 4.65  | 43   | 731      | 0.36    | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene     | 4.57  | 96   | 2876389  | 1071.49 | ug/l   | 89     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 15002    | 4.54    | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 20926    | 6.02    | ug/l # | 18     |
| 40) Benzene                    | 6.12  | 78   | 6415     | 0.65    | ug/l   | 96     |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 661      | 0.26    | ug/l # | 86     |
| 65) Chlorobenzene              | 10.12 | 112  | 72614    | 10.29   | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 84399    | 21.48   | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 84399    | 52.83   | ug/l # | 14     |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 1185     | 0.21    | ug/l   | 97     |
| 88) 1,4-Dichlorobenzene        | 12.01 | 146  | 1185     | 0.21    | ug/l   | 95     |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 18973    | 3.48    | ug/l   | 98     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX060520\  
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Sample : L2894-19  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
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LF012MW144-200602

Quant Time: Jun 06 06:03:13 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 27 16:31:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

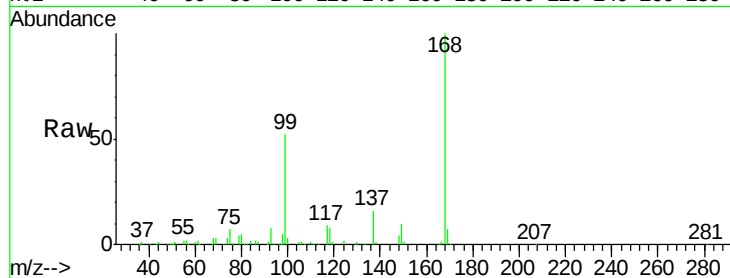
LF012MW144-200602

Tgt Ion:168 Resp: 218024

Ion Ratio Lower Upper

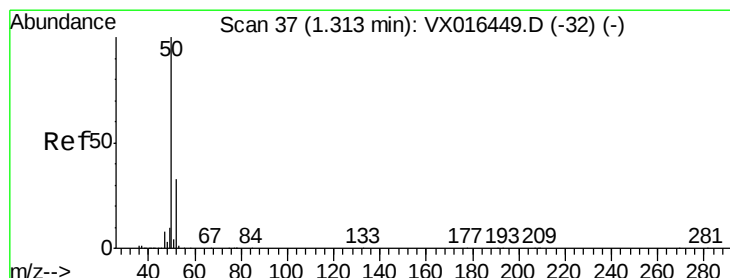
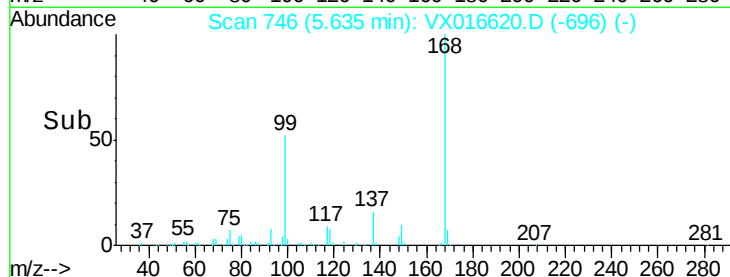
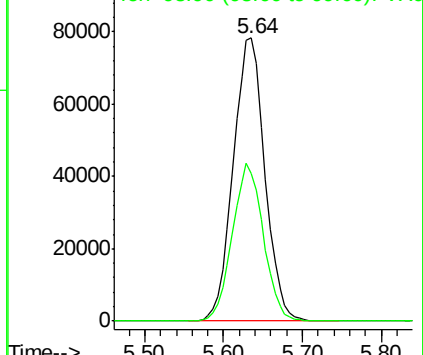
168 100

99 52.0 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.62 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016620.D

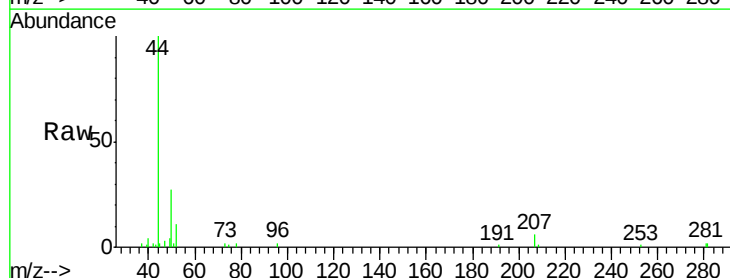
Acq: 05 Jun 2020 18:33

Tgt Ion: 50 Resp: 1616

Ion Ratio Lower Upper

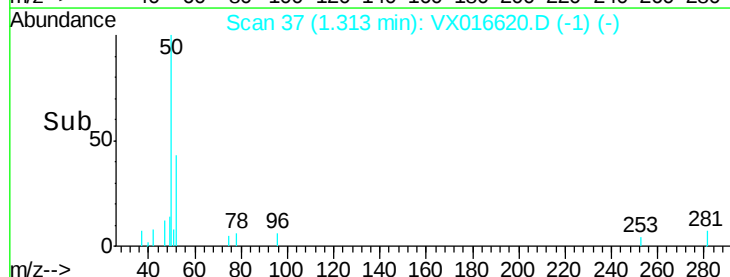
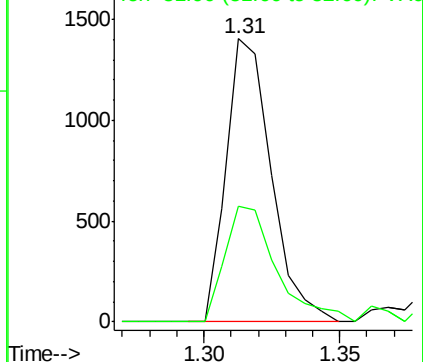
50 100

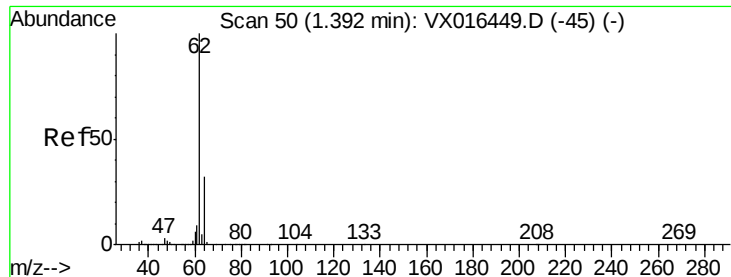
52 41.1 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 31.49 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

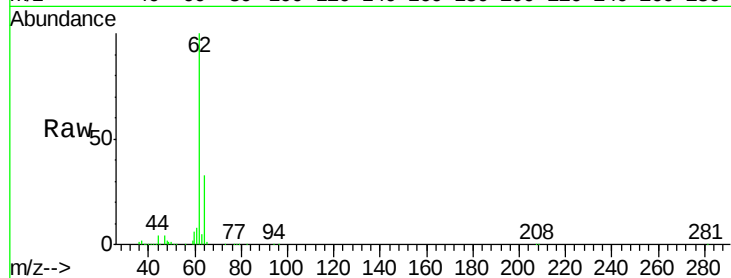
LF012MW144-200602

Tgt Ion: 62 Resp: 86354

Ion Ratio Lower Upper

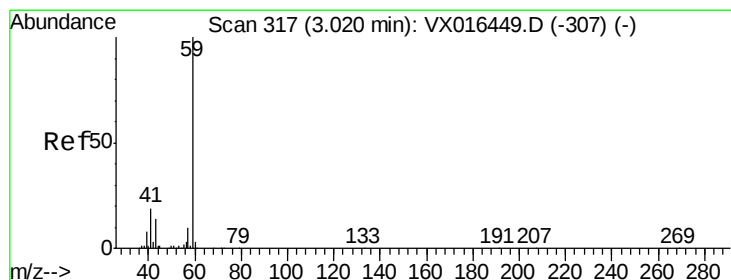
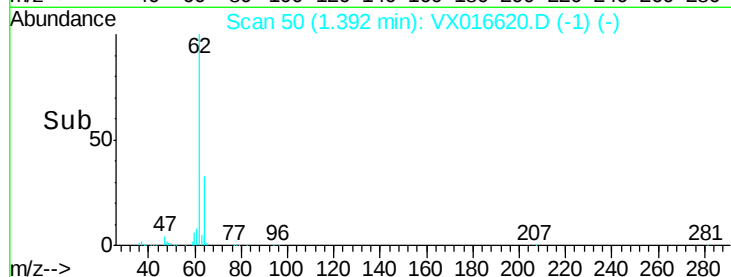
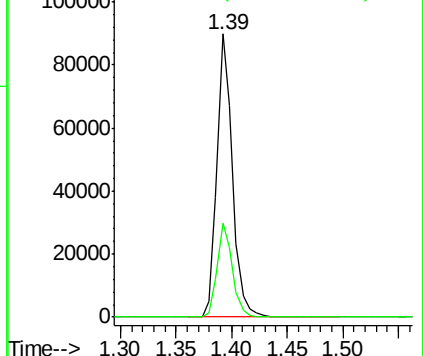
62 100

64 33.2 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 0.40 ug/l

RT: 3.02 min Scan# 317

Delta R.T. -0.00 min

Lab File: VX016620.D

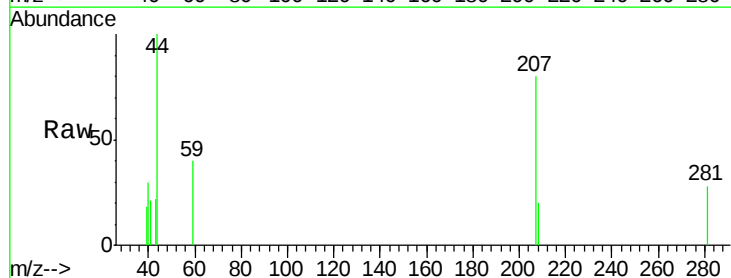
Acq: 05 Jun 2020 18:33

Tgt Ion: 59 Resp: 281

Ion Ratio Lower Upper

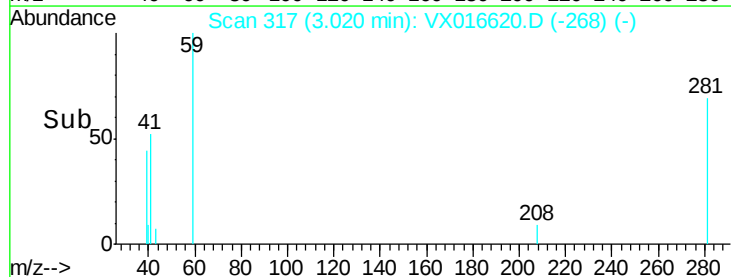
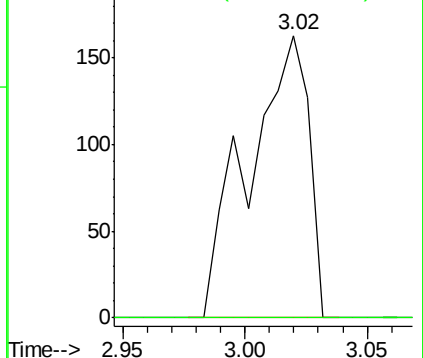
59 100

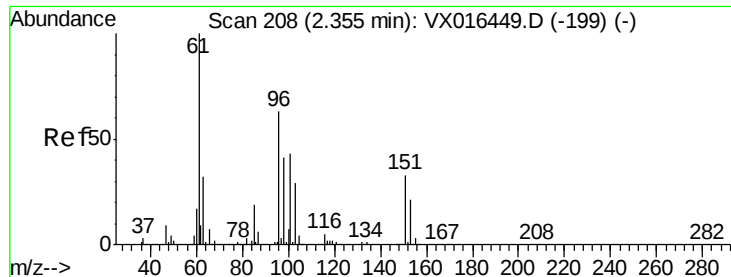
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.92 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

LF012MW144-200602

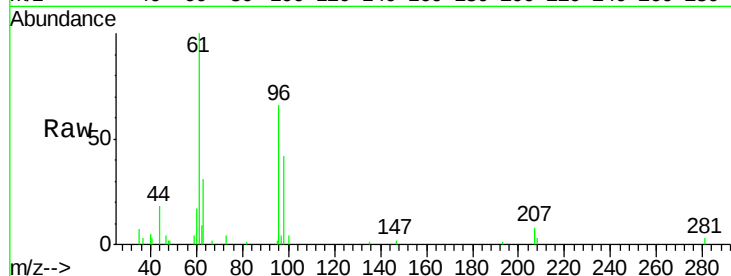
Tgt Ion: 96 Resp: 4036

Ion Ratio Lower Upper

96 100

61 150.6 126.6 189.8

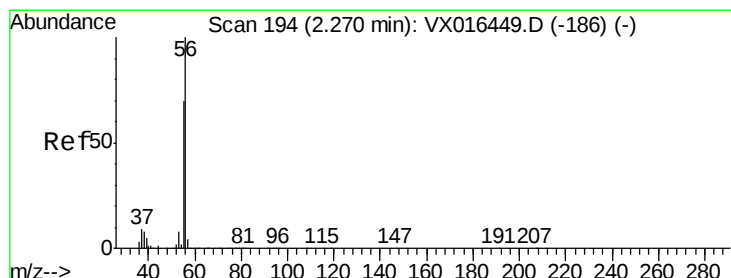
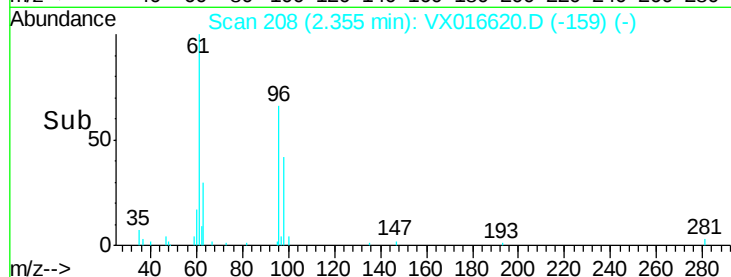
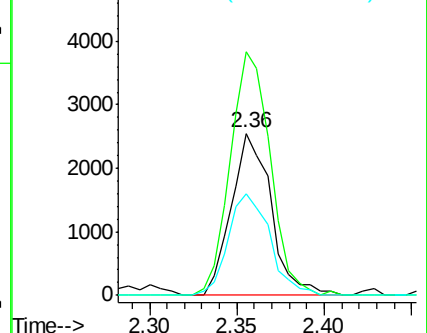
98 62.5 51.3 76.9



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



#13

Acrolein

Concen: 0.60 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016620.D

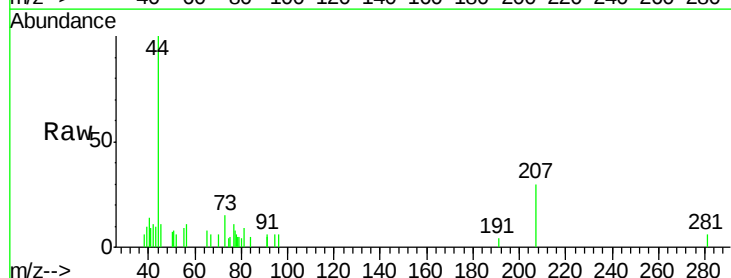
Acq: 05 Jun 2020 18:33

Tgt Ion: 56 Resp: 177

Ion Ratio Lower Upper

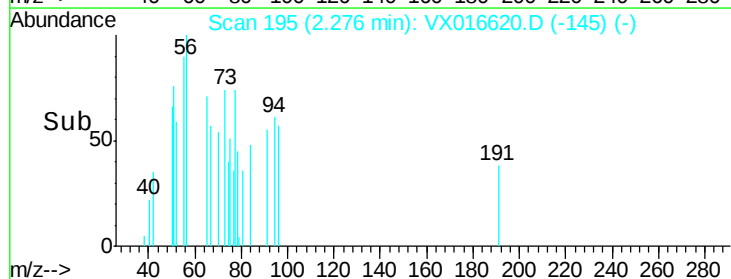
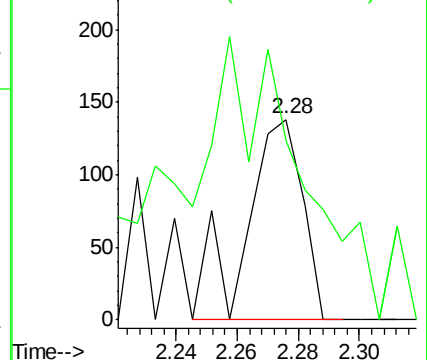
56 100

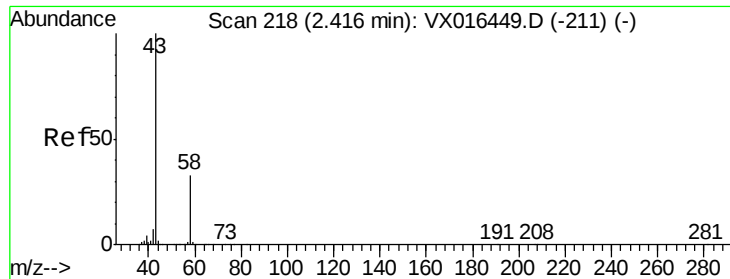
55 321.5 58.3 87.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 3.10 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

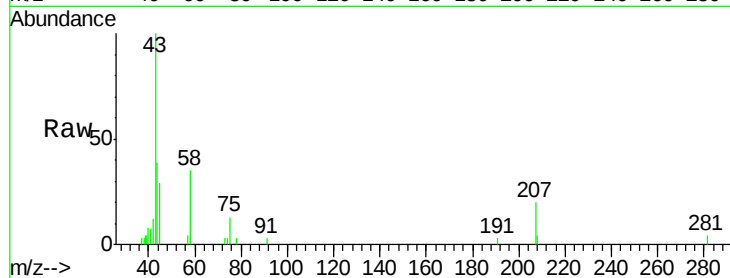
LF012MW144-200602

Tgt Ion: 43 Resp: 3674

Ion Ratio Lower Upper

43 100

58 34.6 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

2000

1500

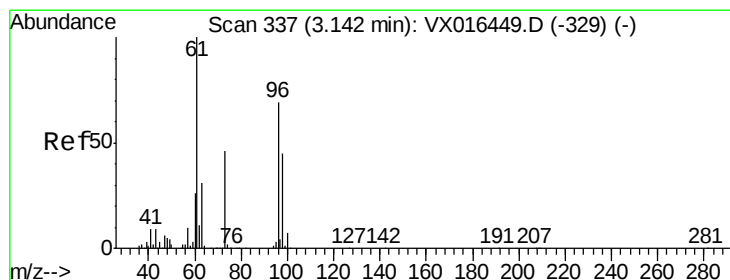
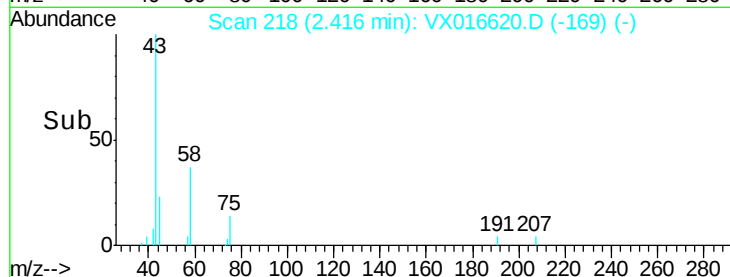
1000

500

0

Time-->

2.35 2.40 2.45 2.50



#21

trans-1,2-Dichloroethene

Concen: 1.86 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

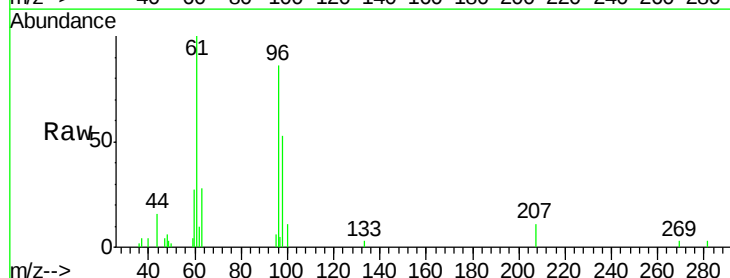
Tgt Ion: 96 Resp: 4327

Ion Ratio Lower Upper

96 100

61 116.1 115.3 172.9

98 61.5 51.9 77.9



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

4000

3000

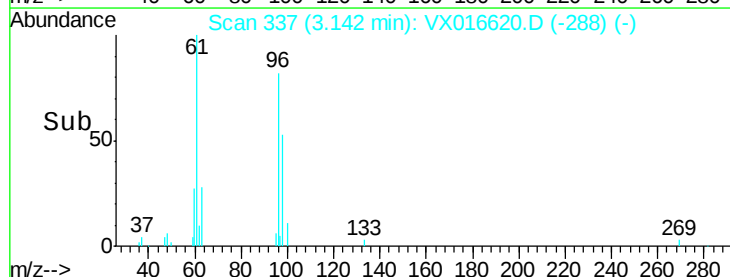
2000

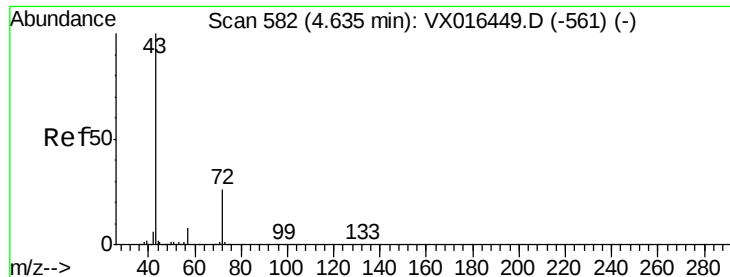
1000

0

Time-->

3.10 3.15 3.20





#25

2-Butanone

Concen: 0.36 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

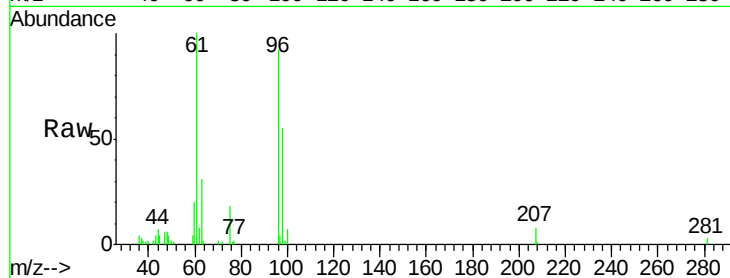
LF012MW144-200602

Tgt Ion: 43 Resp: 731

Ion Ratio Lower Upper

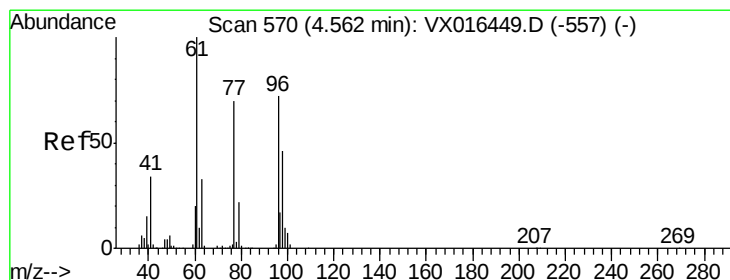
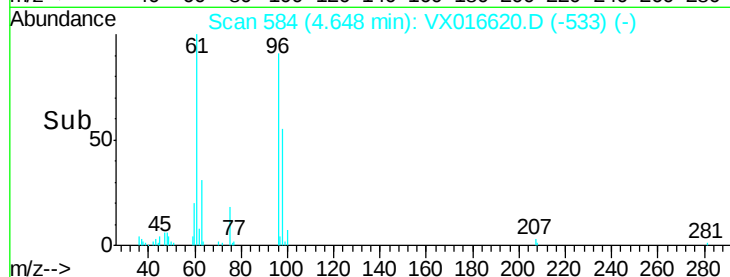
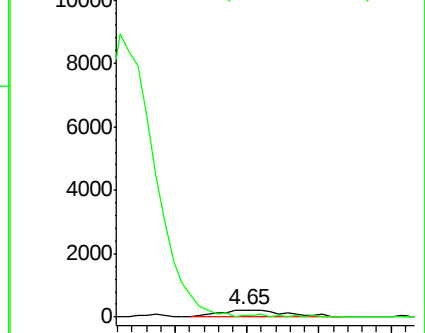
43 100

72 28.4 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 1071.49 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

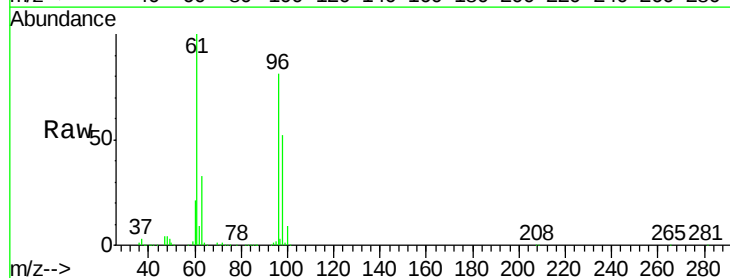
Tgt Ion: 96 Resp: 2876389

Ion Ratio Lower Upper

96 100

61 123.6 0.0 284.6

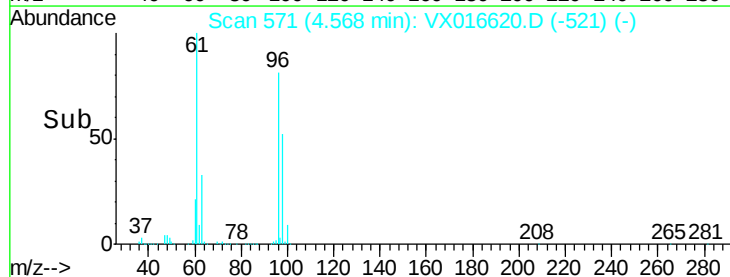
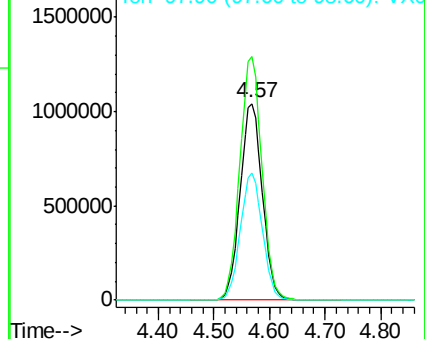
98 64.6 0.0 127.2

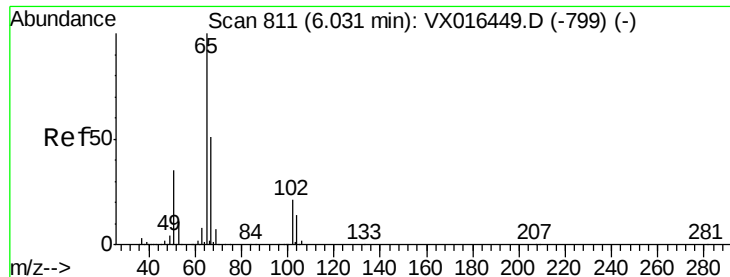


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

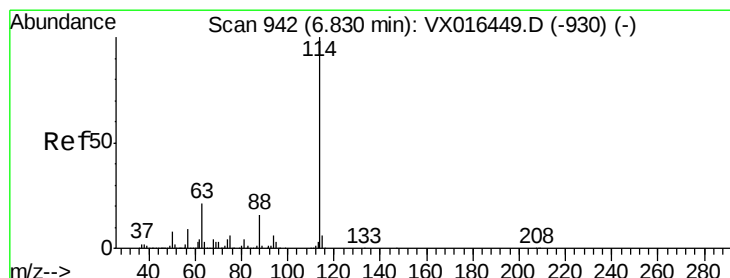
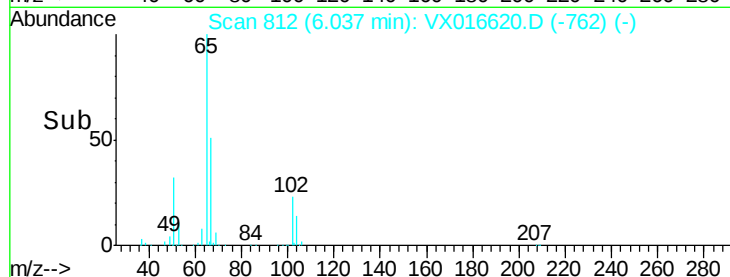
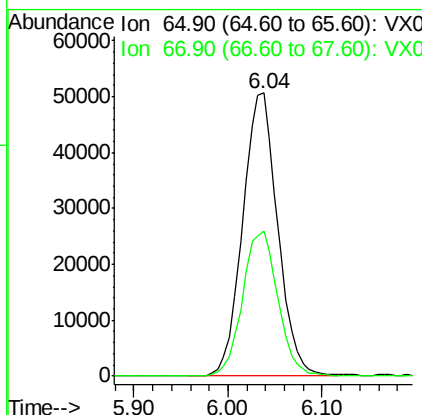
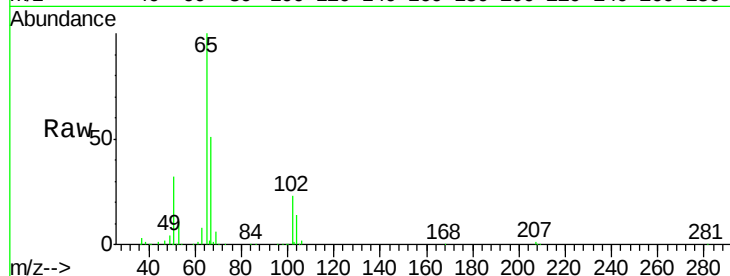




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.71 ug/l  
 RT: 6.04 min Scan# 812  
 Delta R.T. 0.01 min  
 Lab File: VX016620.D  
 Acq: 05 Jun 2020 18:33

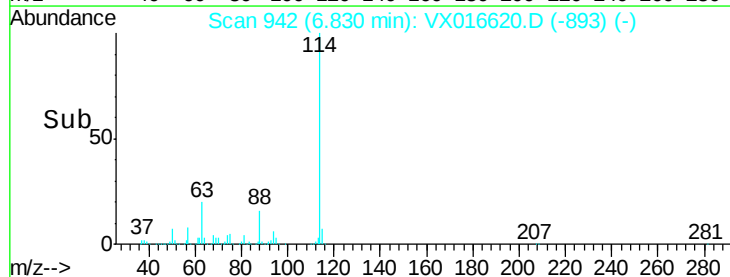
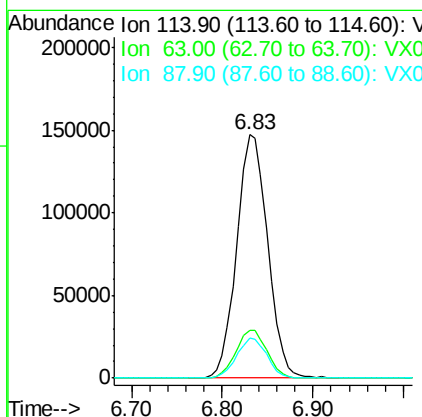
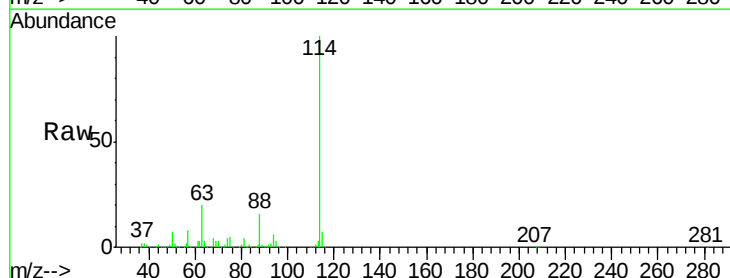
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF012MW144-200602

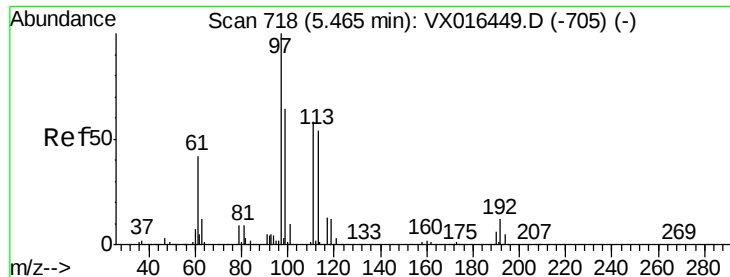
Tgt Ion: 65 Resp: 131880  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 104.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.83 min Scan# 942  
 Delta R.T. -0.00 min  
 Lab File: VX016620.D  
 Acq: 05 Jun 2020 18:33

Tgt Ion: 114 Resp: 349384  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 42.6  
 88 16.5 0.0 32.8

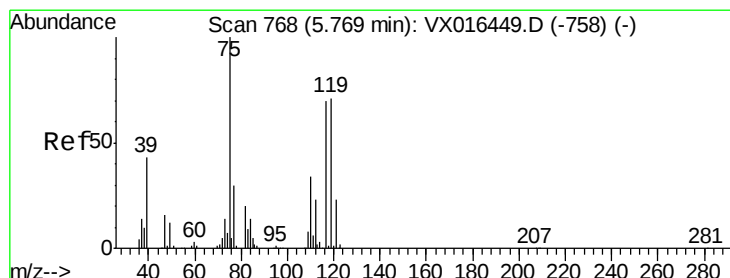
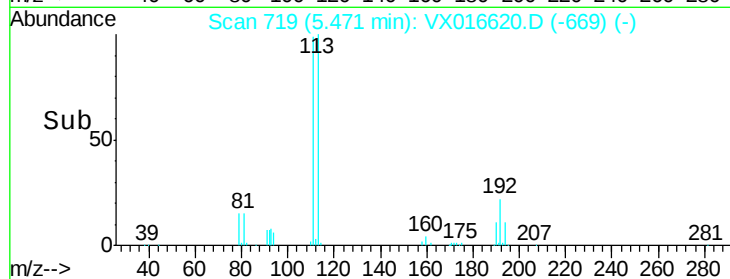
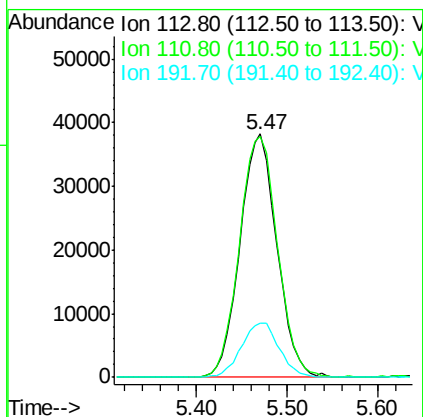
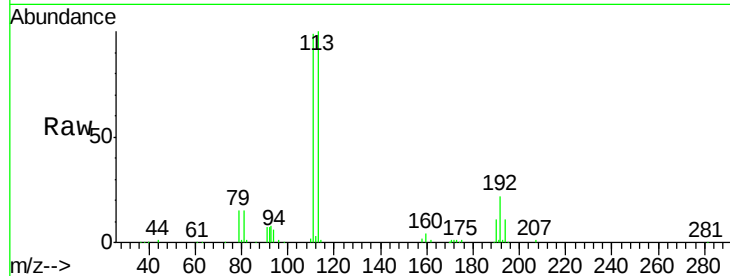




#35  
 Dibromofluoromethane  
 Concen: 49.97 ug/l  
 RT: 5.47 min Scan# 719  
 Delta R.T. 0.01 min  
 Lab File: VX016620.D  
 Acq: 05 Jun 2020 18:33

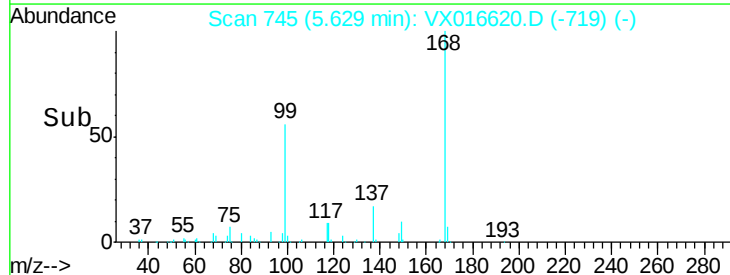
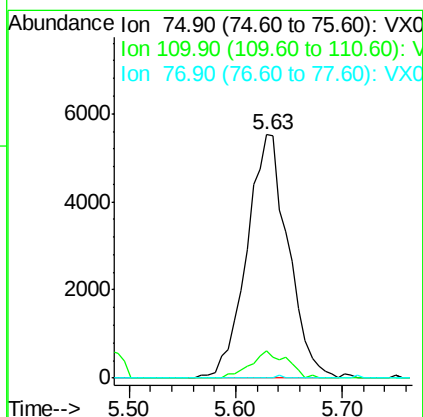
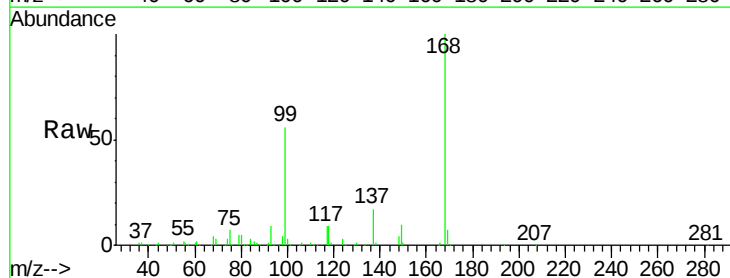
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF012MW144-200602

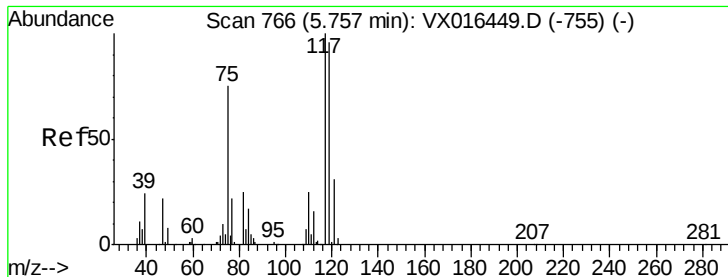
Tgt Ion:113 Resp: 107502  
 Ion Ratio Lower Upper  
 113 100  
 111 102.8 83.0 124.6  
 192 23.0 17.7 26.5



#36  
 1,1-Dichloropropene  
 Concen: 4.54 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.14 min  
 Lab File: VX016620.D  
 Acq: 05 Jun 2020 18:33

Tgt Ion: 75 Resp: 15002  
 Ion Ratio Lower Upper  
 75 100  
 110 9.8 17.4 52.3#  
 77 0.1 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.02 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

LF012MW144-200602

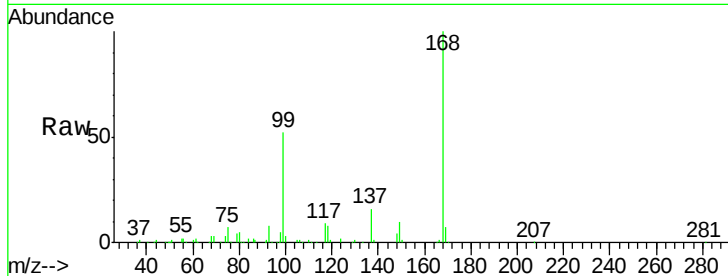
Tgt Ion:117 Resp: 20926

Ion Ratio Lower Upper

117 100

119 7.4 76.3 114.5#

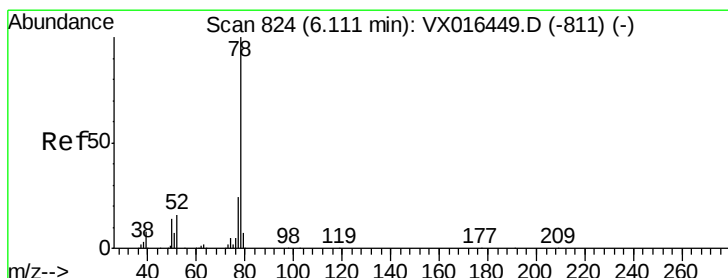
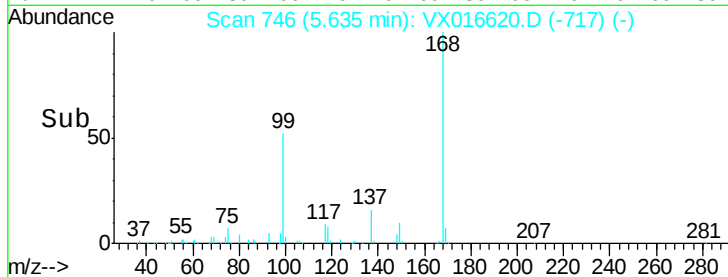
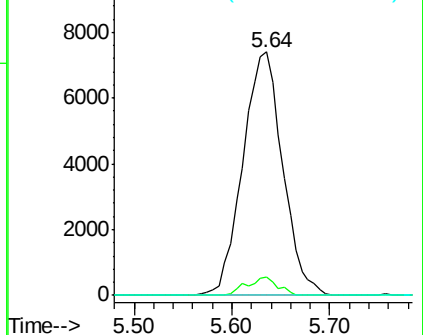
121 0.0 24.6 37.0#



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



#40

Benzene

Concen: 0.65 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX016620.D

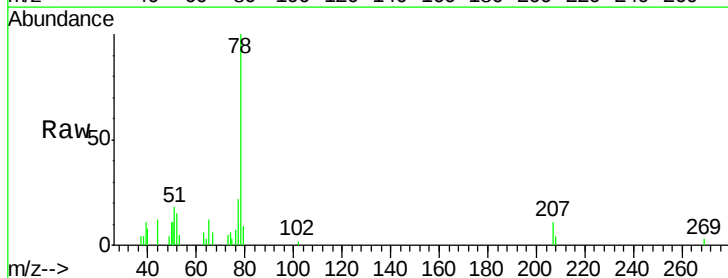
Acq: 05 Jun 2020 18:33

Tgt Ion: 78 Resp: 6415

Ion Ratio Lower Upper

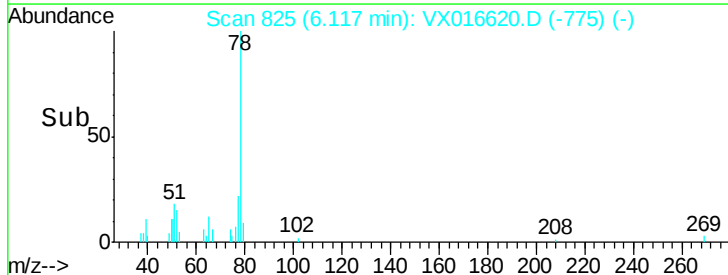
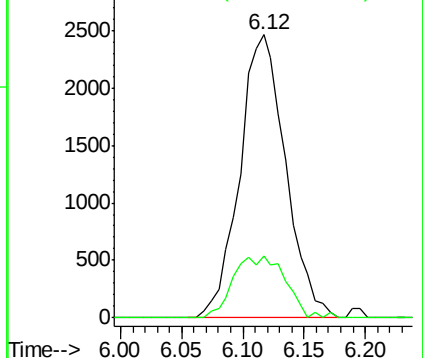
78 100

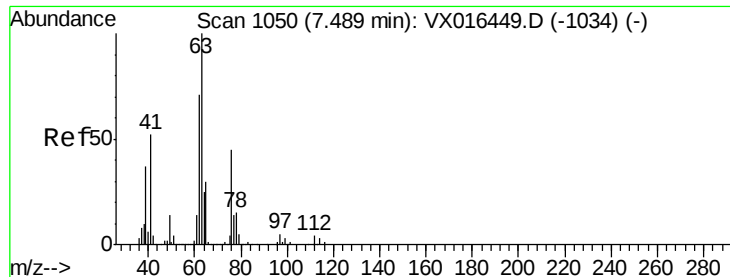
77 21.7 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#45

1,2-Dichloropropane

Concen: 0.26 ug/l

RT: 7.49 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

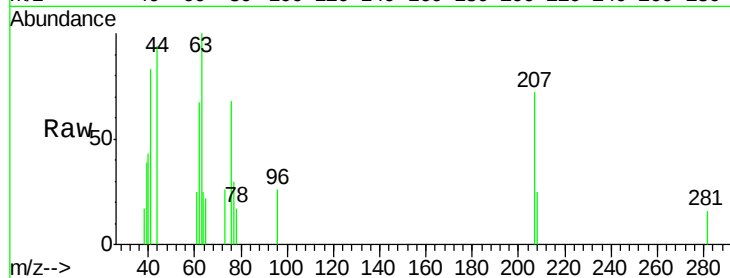
LF012MW144-200602

Tgt Ion: 63 Resp: 661

Ion Ratio Lower Upper

63 100

65 22.3 24.2 36.2#

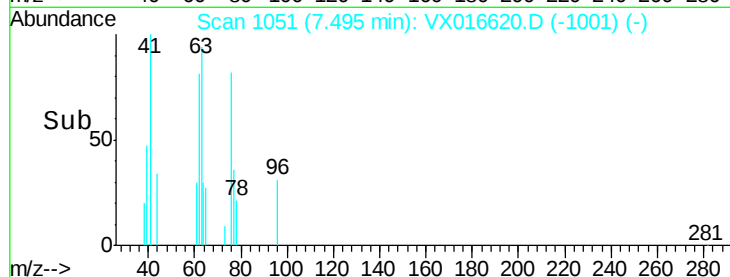


Abundance Ion 62.90 (62.60 to 63.60): VX0

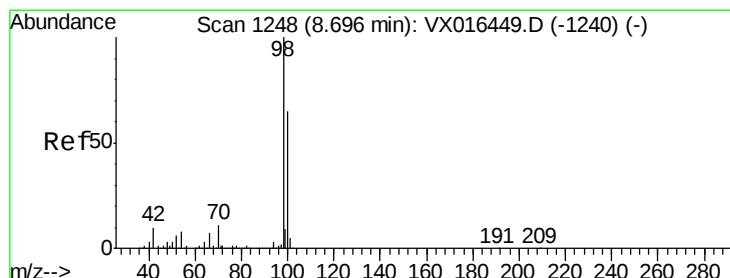
Ion 64.90 (64.60 to 65.60): VX0

7.49

Time-->



Time-->



#50

Toluene-d8

Concen: 50.70 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016620.D

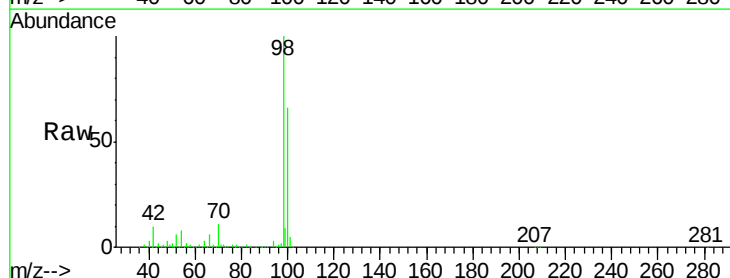
Acq: 05 Jun 2020 18:33

Tgt Ion: 98 Resp: 424569

Ion Ratio Lower Upper

98 100

100 66.4 53.8 80.6

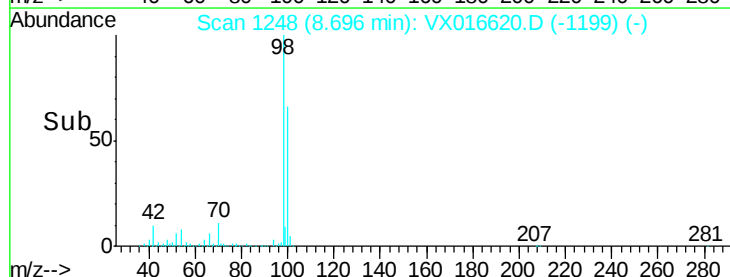


Abundance Ion 98.00 (97.70 to 98.70): VX0

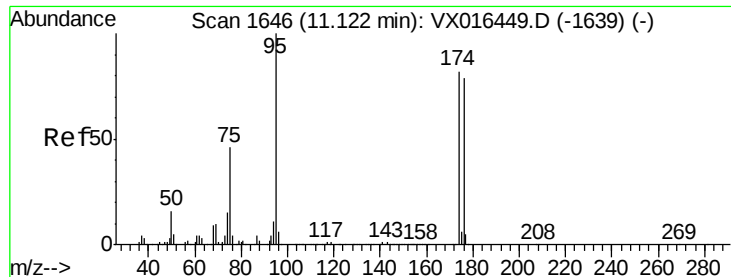
Ion 100.00 (99.70 to 100.70): VX0

8.70

Time-->



Time-->



#62

4-Bromofluorobenzene

Concen: 52.88 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

LF012MW144-200602

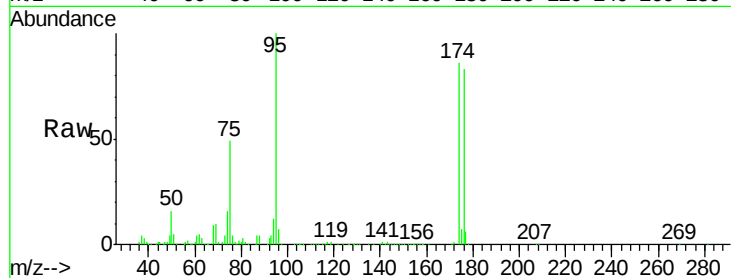
Tgt Ion: 95 Resp: 171086

Ion Ratio Lower Upper

95 100

174 85.4 0.0 163.0

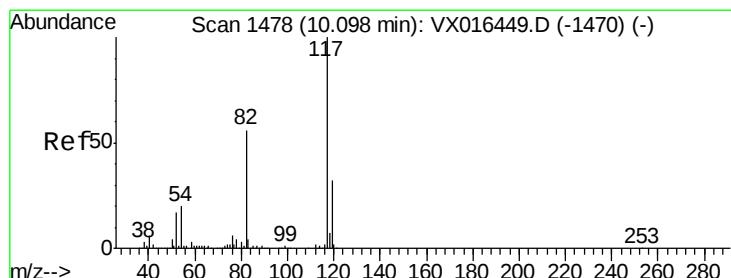
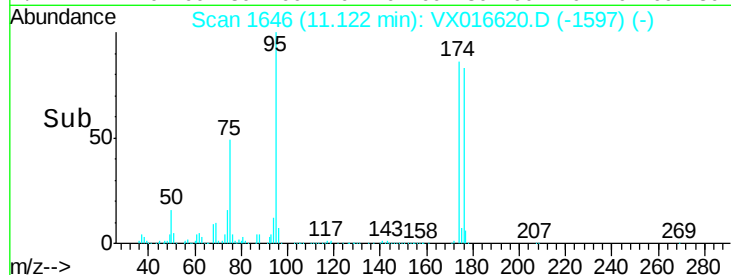
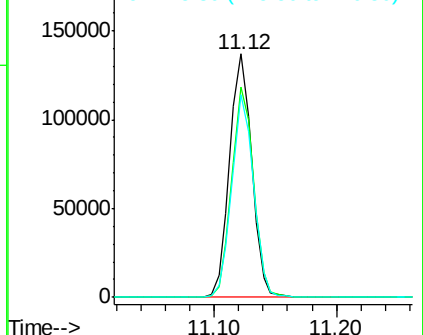
176 81.6 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX016620.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016620.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016620.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

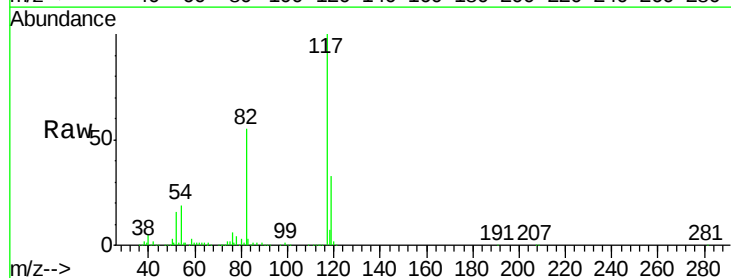
Tgt Ion: 117 Resp: 346065

Ion Ratio Lower Upper

117 100

82 54.8 45.0 67.6

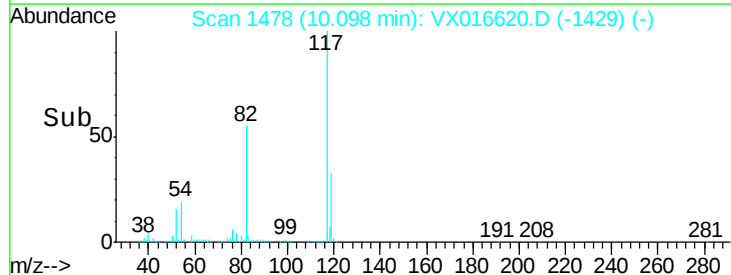
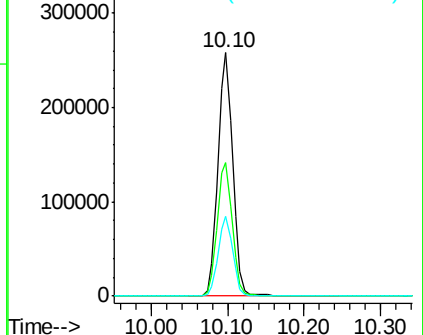
119 32.8 25.8 38.8

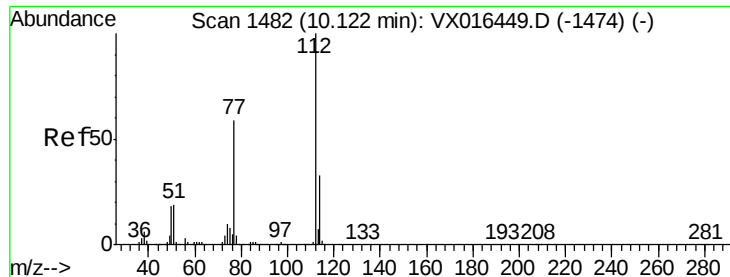


Abundance Ion 116.90 (116.60 to 117.60): VX016620.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016620.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016620.D (-1429) (-)





#65

Chlorobenzene

Concen: 10.29 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

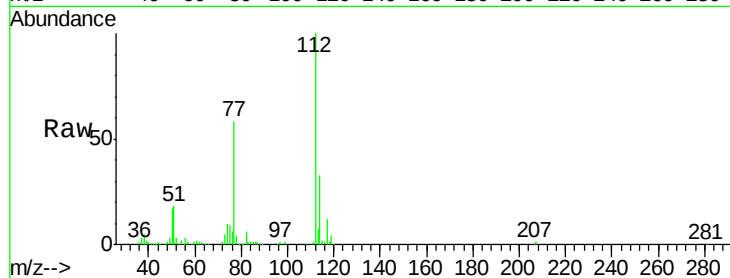
LF012MW144-200602

Tgt Ion:112 Resp: 72614

Ion Ratio Lower Upper

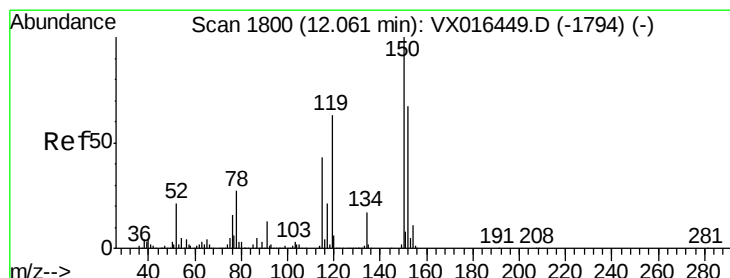
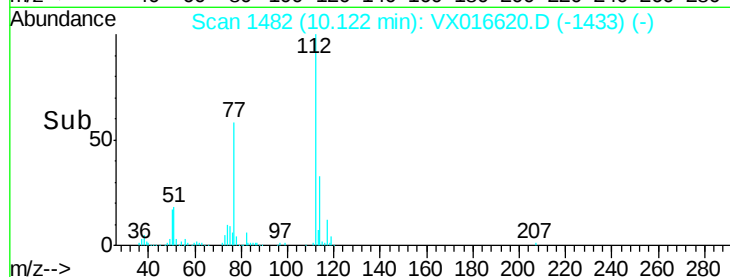
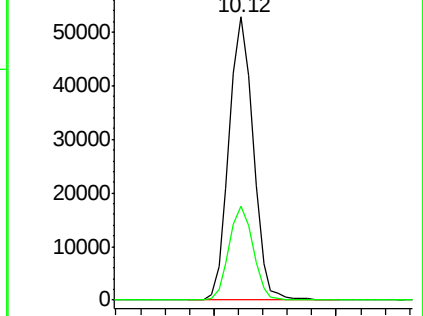
112 100

114 33.0 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

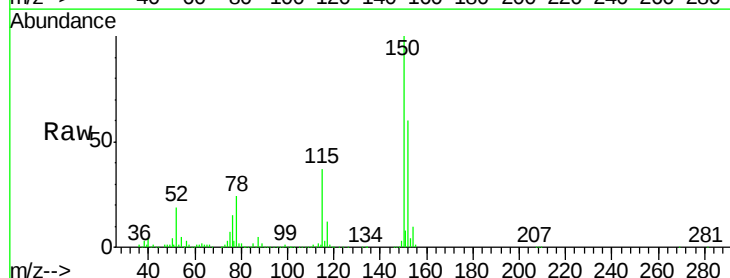
Tgt Ion:152 Resp: 178788

Ion Ratio Lower Upper

152 100

115 58.8 39.9 119.6

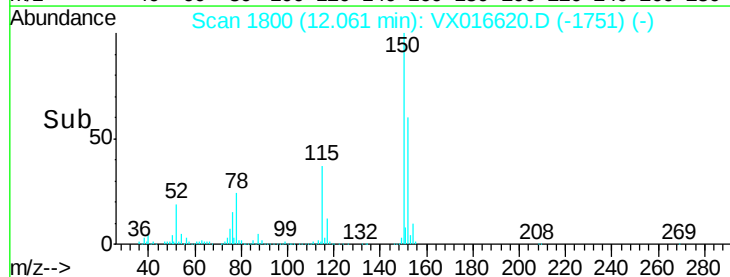
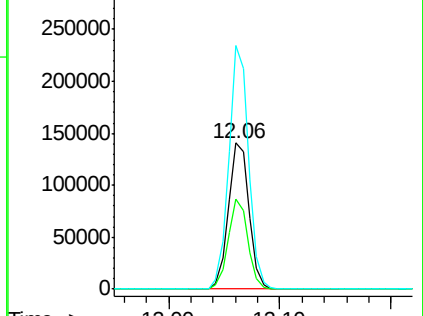
150 160.1 0.0 341.0

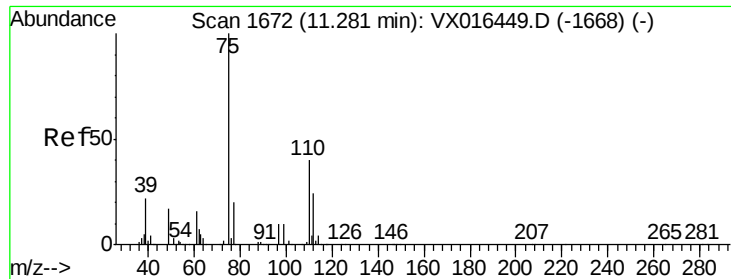


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.48 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

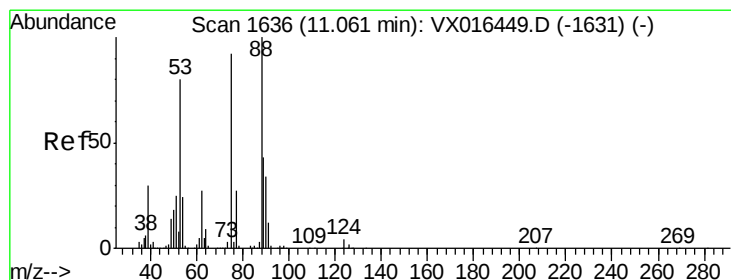
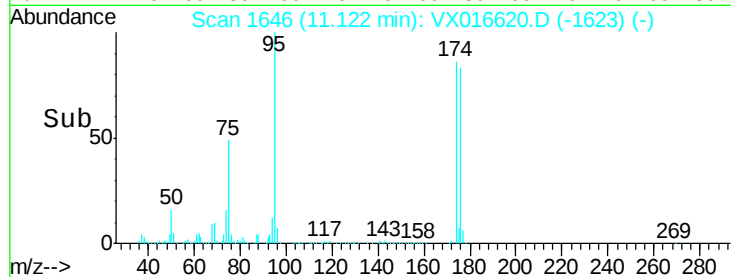
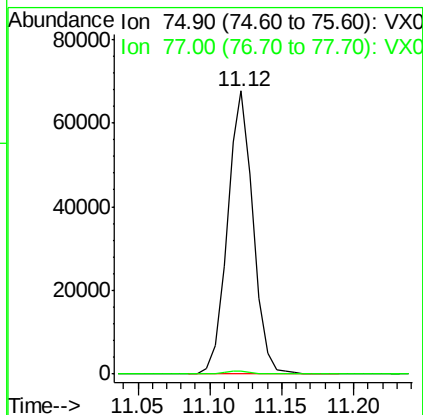
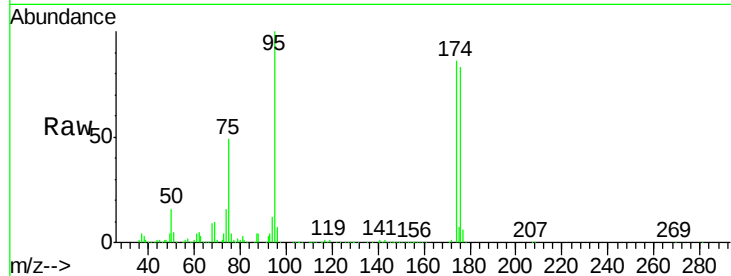
LF012MW144-200602

Tgt Ion: 75 Resp: 84399

Ion Ratio Lower Upper

75 100

77 1.2 21.3 63.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 52.83 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016620.D

Acq: 05 Jun 2020 18:33

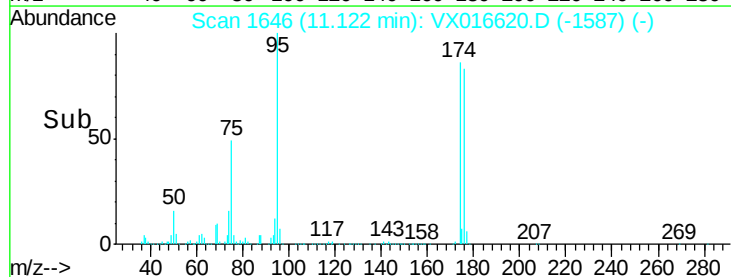
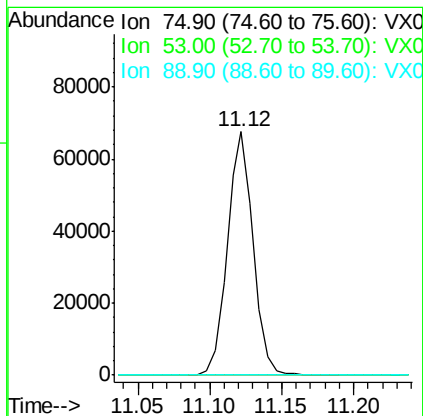
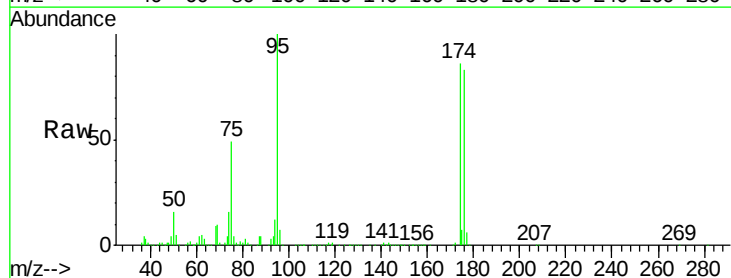
Tgt Ion: 75 Resp: 84399

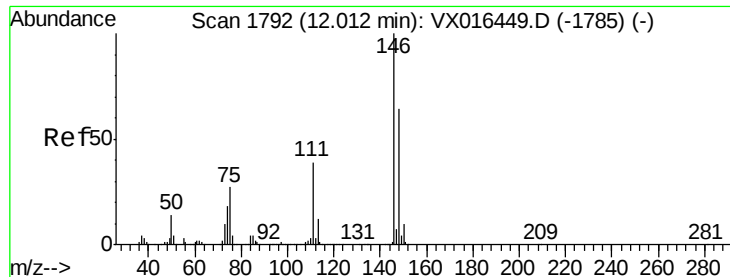
Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

89 0.1 36.6 55.0#

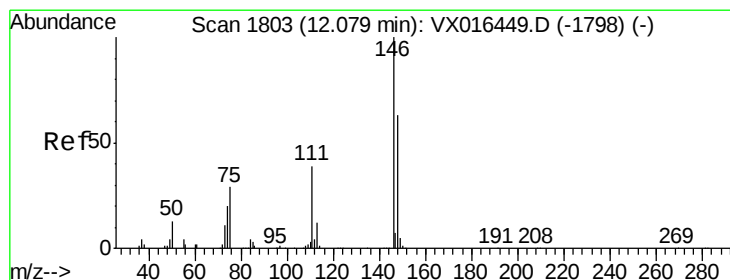
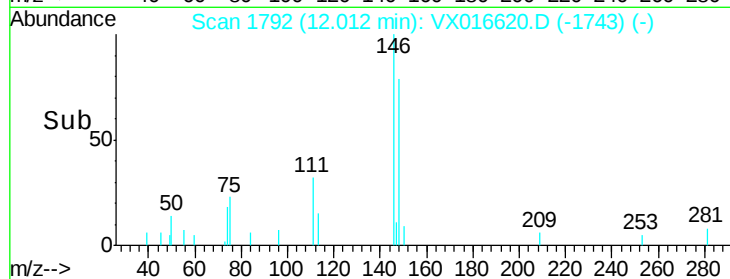
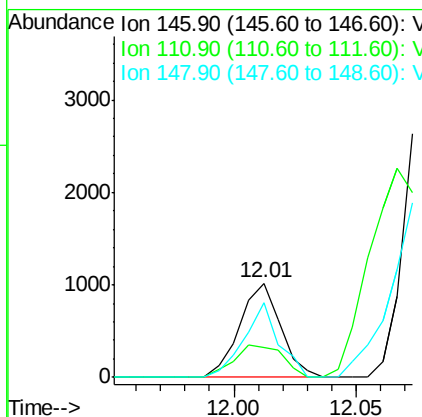
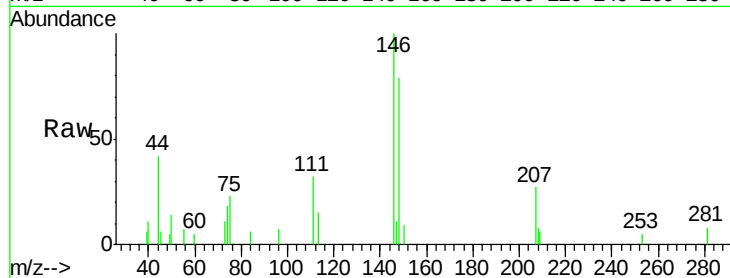




#87  
 1,3-Dichlorobenzene  
 Concen: 0.21 ug/l  
 RT: 12.01 min Scan# 1792  
 Delta R.T. -0.00 min  
 Lab File: VX016620.D  
 Acq: 05 Jun 2020 18:33

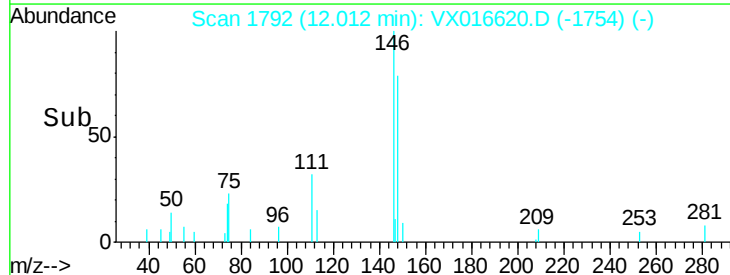
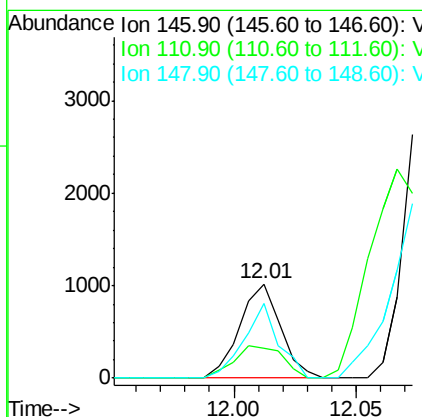
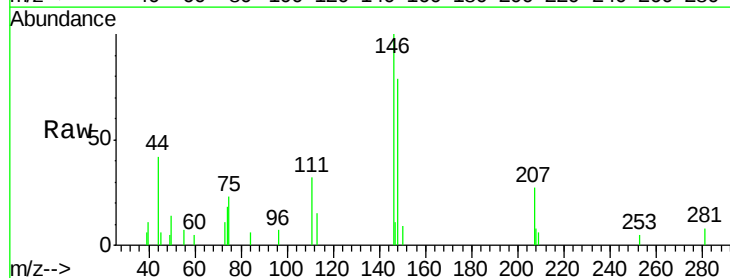
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF012MW144-200602

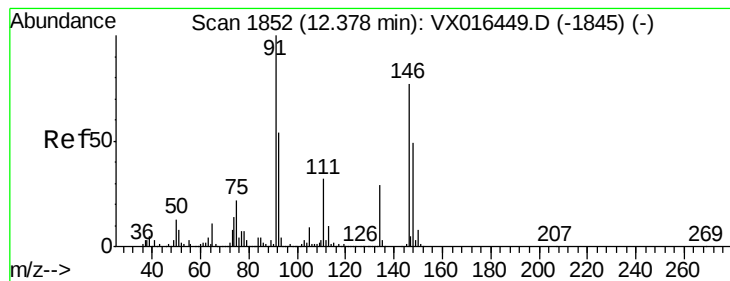
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.0  | 20.0  | 60.0  |
| 148     | 67.3  | 31.9  | 95.5  |



#88  
 1,4-Dichlorobenzene  
 Concen: 0.21 ug/l  
 RT: 12.01 min Scan# 1792  
 Delta R.T. -0.07 min  
 Lab File: VX016620.D  
 Acq: 05 Jun 2020 18:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.0  | 19.4  | 58.2  |
| 148     | 67.3  | 31.4  | 94.3  |





#91

1,2-Dichlorobenzene

Concen: 3.48 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX016620.D

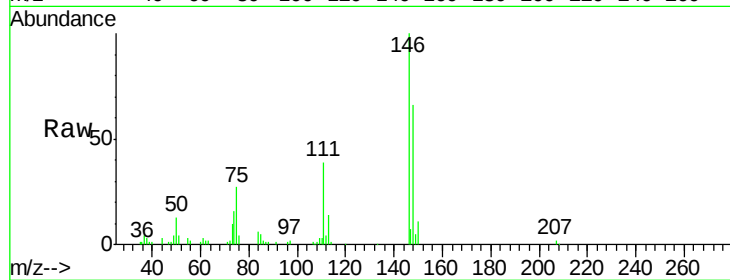
Acq: 05 Jun 2020 18:33

Instrument :

MSVOA\_X

ClientSampleId :

LF012MW144-200602



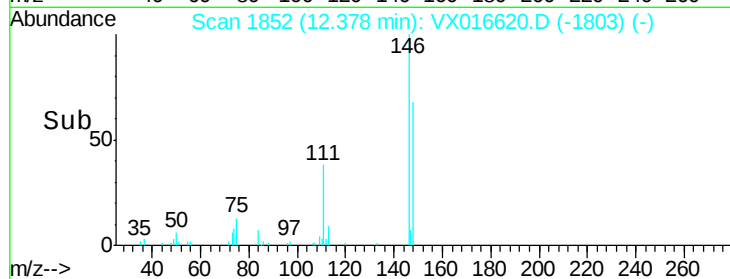
Tgt Ion:146 Resp: 18973

Ion Ratio Lower Upper

146 100

111 41.8 21.4 64.3

148 65.6 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

