

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX081219\  
 Data File : VX011503.D  
 Acq On : 12 Aug 2019 23:39  
 Operator : JC/SP  
 Sample : K4278-15  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-TB-2019-5

Quant Time: Aug 13 07:45:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 181143   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 275323   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 242774   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 111526   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 100194   | 54.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.84% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 84190    | 46.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.68%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 316992   | 46.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.44%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 106213   | 43.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.68%  |          |

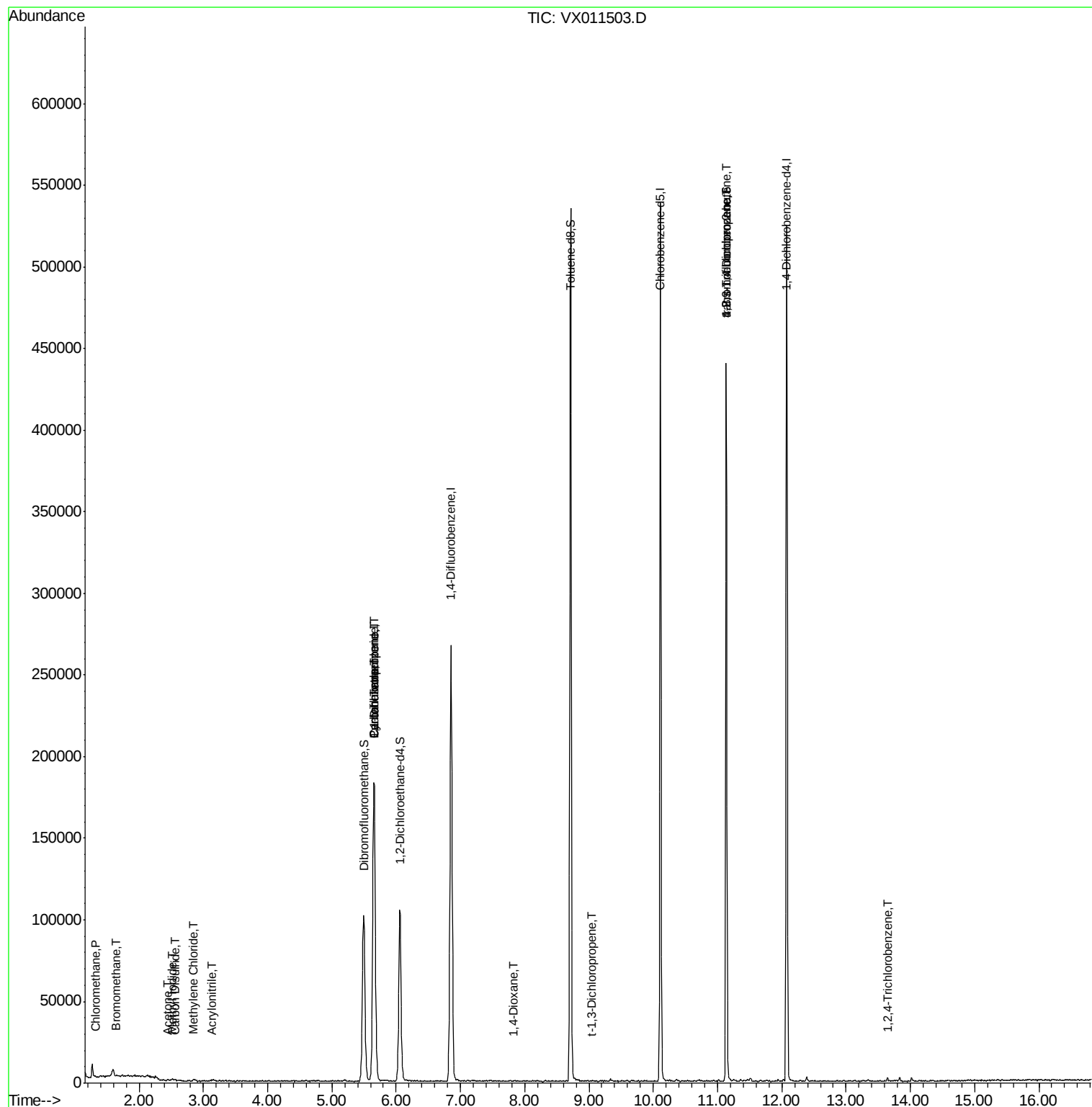
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 354      | 0.225     | ug/l   | 98     |
| 5) Bromomethane                | 1.65  | 94   | 604      | 0.490     | ug/l # | 55     |
| 6) Chloroethane                | 1.70  | 64   | 150      | Below Cal | #      | 71     |
| 10) Methyl Iodide              | 2.51  | 142  | 867      | 0.414     | ug/l # | 83     |
| 13) Acrolein                   | 2.30  | 56   | 45       | Below Cal | #      | 15     |
| 15) Acrylonitrile              | 3.14  | 53   | 240      | 0.276     | ug/l # | 70     |
| 16) Acetone                    | 2.44  | 43   | 436      | 0.502     | ug/l # | 70     |
| 17) Carbon Disulfide           | 2.56  | 76   | 889      | 0.230     | ug/l # | 75     |
| 20) Methylene Chloride         | 2.85  | 84   | 446      | 0.235     | ug/l # | 67     |
| 31) Cyclohexane                | 5.65  | 56   | 3664     | 1.560     | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 12623    | 5.251     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 17325    | 7.164     | ug/l # | 14     |
| 49) 1,4-Dioxane                | 7.84  | 88   | 19       | 0.361     | ug/l # | 1      |
| 53) t-1,3-Dichloropropene      | 9.05  | 75   | 52       | 2.857     | ug/l # | 43     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 54943    | 27.052    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 54943    | 70.222    | ug/l # | 11     |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 576      | 0.231     | ug/l   | 84     |

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

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Instrument :  
MSVOA\_X  
ClientSampled :  
Z3-TB-2019-5

Quant Time: Aug 13 07:45:53 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011503.D

Acq: 12 Aug 2019 23:39

Instrument :

MSVOA\_X

ClientSampleId :

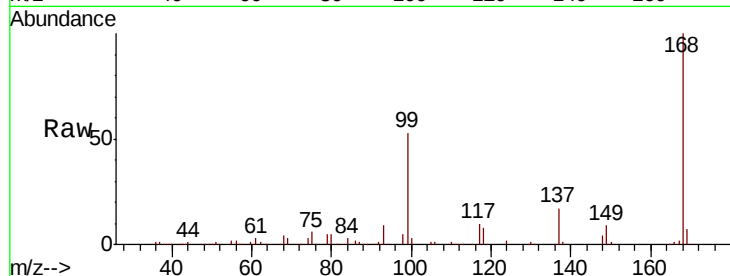
Z3-TB-2019-5

Tgt Ion:168 Resp: 181143

Ion Ratio Lower Upper

168 100

99 52.8 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

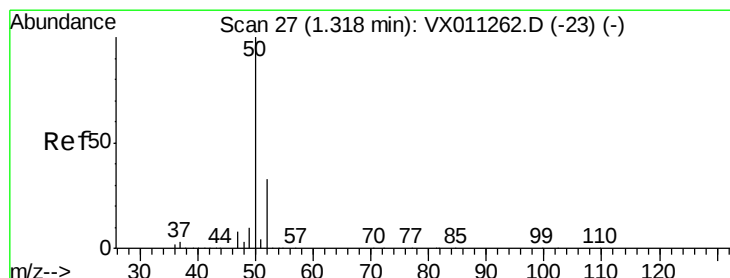
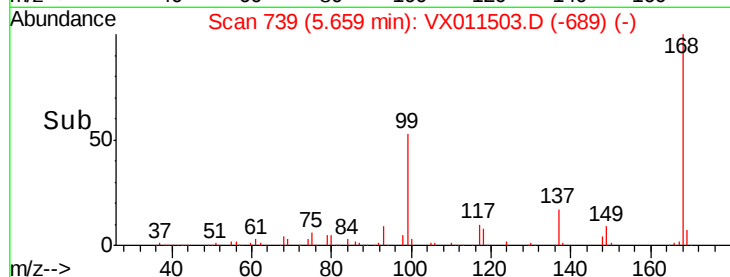
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.225 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011503.D

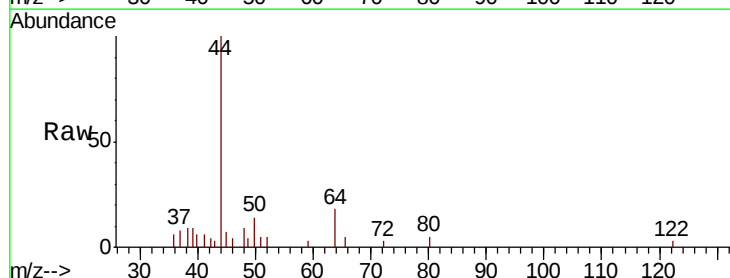
Acq: 12 Aug 2019 23:39

Tgt Ion: 50 Resp: 354

Ion Ratio Lower Upper

50 100

52 34.3 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

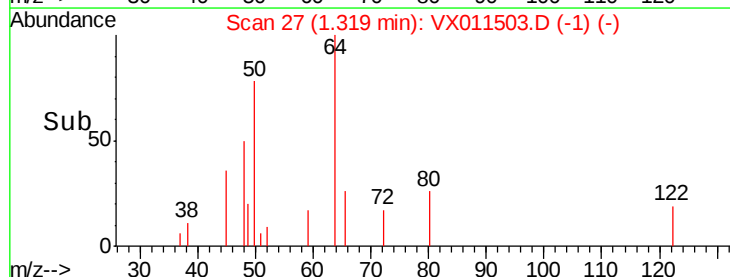
150

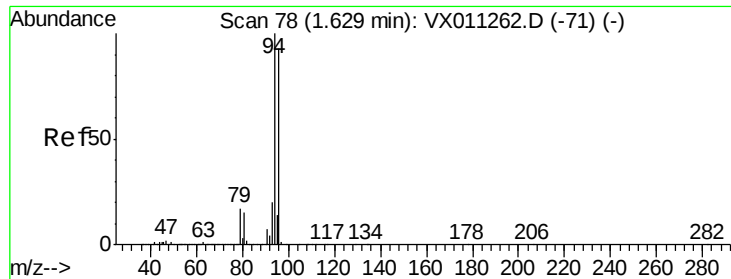
100

50

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.490 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011503.D

Acq: 12 Aug 2019 23:39

Instrument :

MSVOA\_X

ClientSampled :

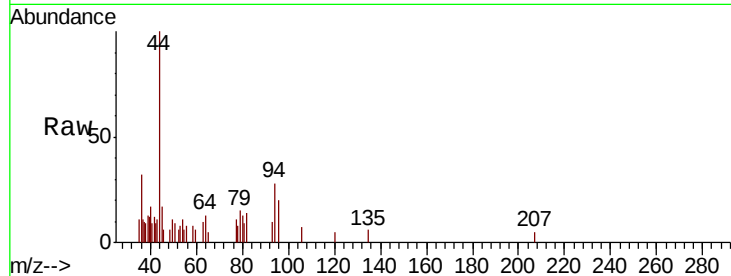
Z3-TB-2019-5

Tgt Ion: 94 Resp: 604

Ion Ratio Lower Upper

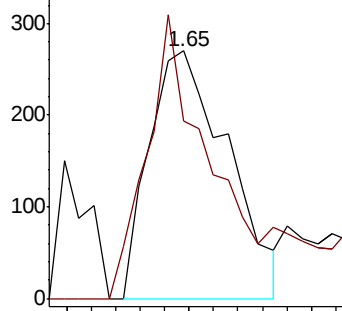
94 100

96 50.4 74.6 112.0#

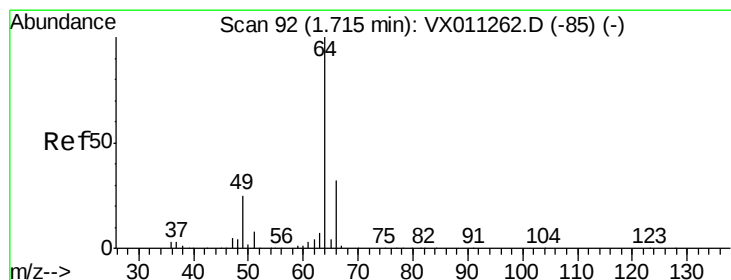
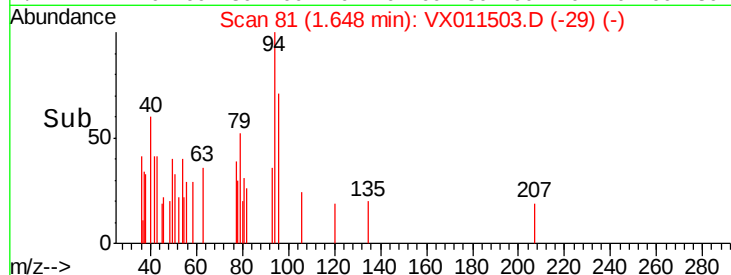


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX011503.D

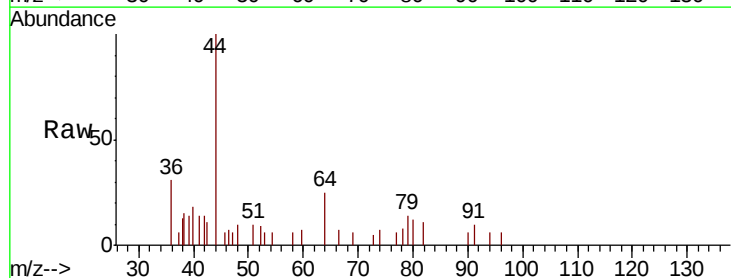
Acq: 12 Aug 2019 23:39

Tgt Ion: 64 Resp: 150

Ion Ratio Lower Upper

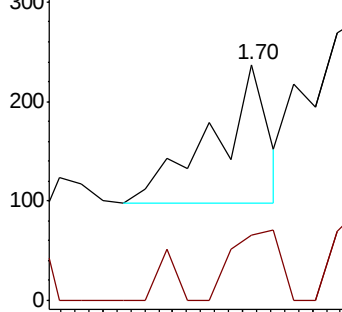
64 100

66 47.5 25.1 37.7#

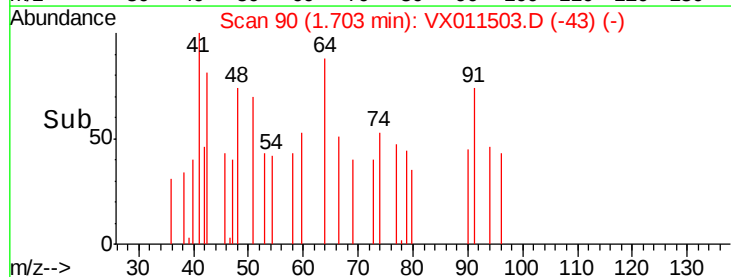


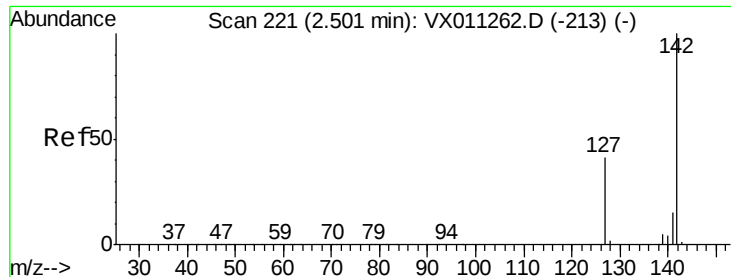
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

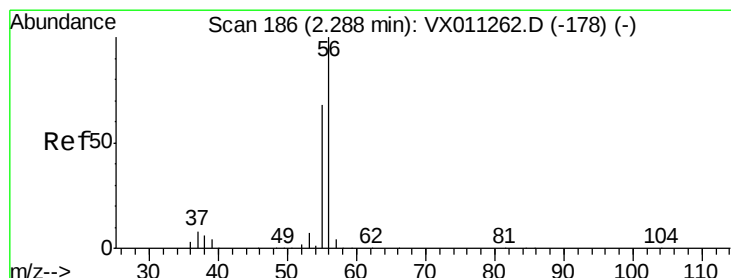
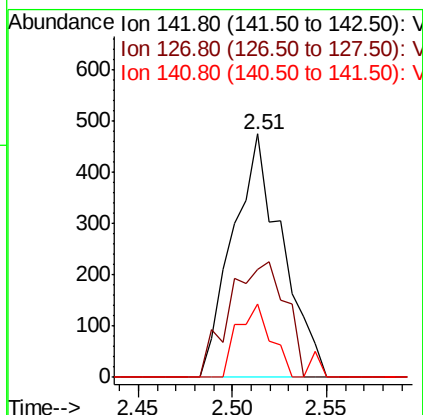
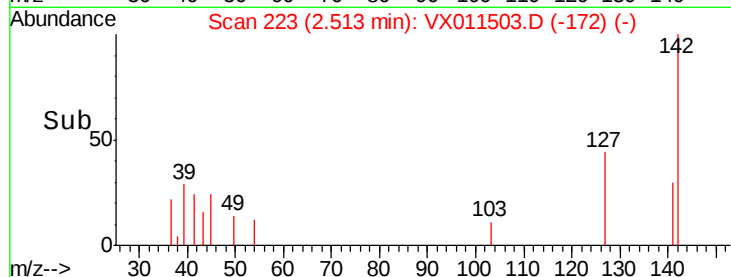
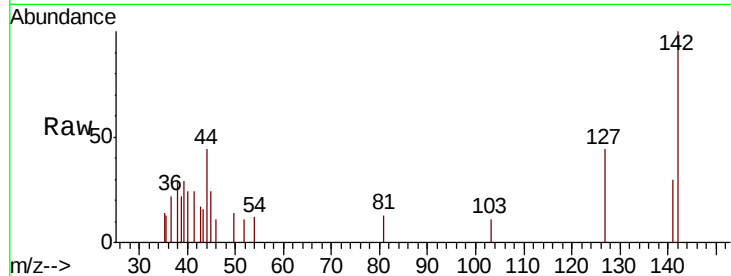




#10  
Methyl Iodide  
Concen: 0.414 ug/l  
RT: 2.51 min Scan# 223  
Delta R.T. 0.01 min  
Lab File: VX011503.D  
Acq: 12 Aug 2019 23:39

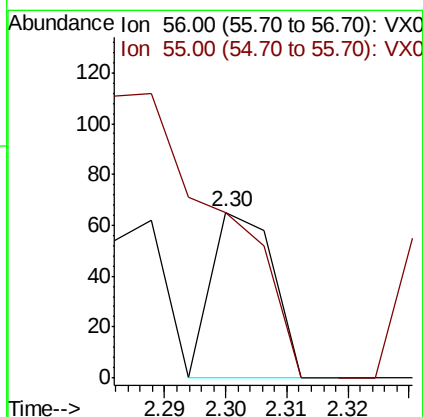
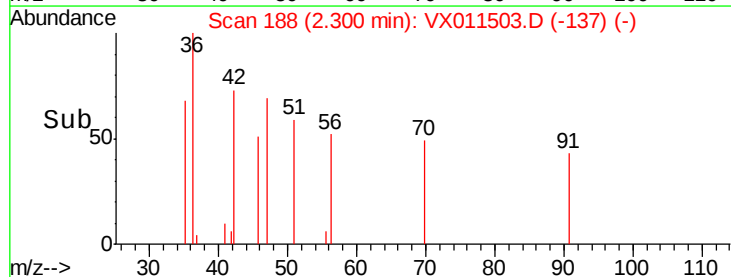
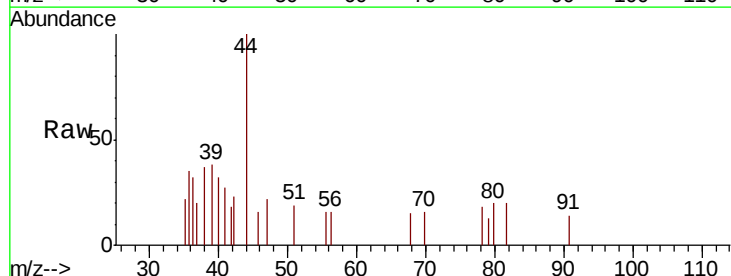
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z3-TB-2019-5

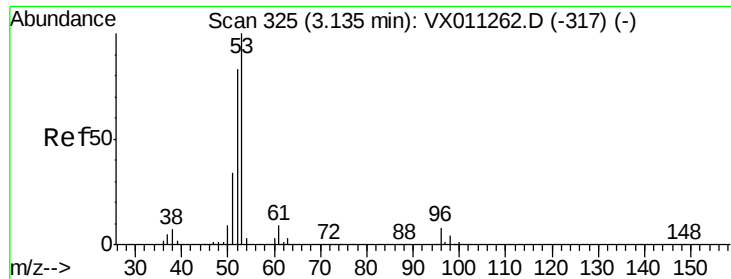
Tgt Ion: 142 Resp: 867  
Ion Ratio Lower Upper  
142 100  
127 53.6 33.8 50.8#  
141 20.4 11.4 17.2#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.30 min Scan# 188  
Delta R.T. 0.01 min  
Lab File: VX011503.D  
Acq: 12 Aug 2019 23:39

Tgt Ion: 56 Resp: 45  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.0 84.0#





#15

Acrylonitrile

Concen: 0.276 ug/l

RT: 3.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX011503.D

Acq: 12 Aug 2019 23:39

Instrument :

MSVOA\_X

ClientSampleId :

Z3-TB-2019-5

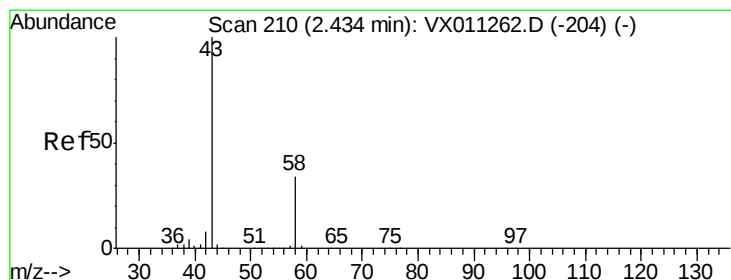
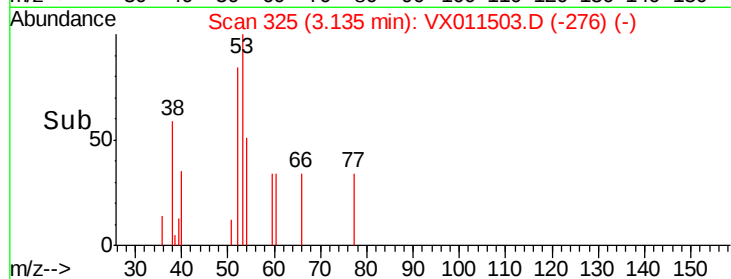
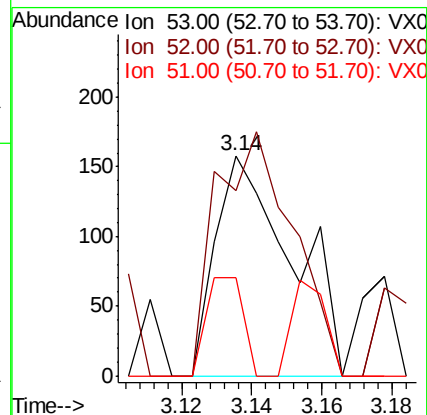
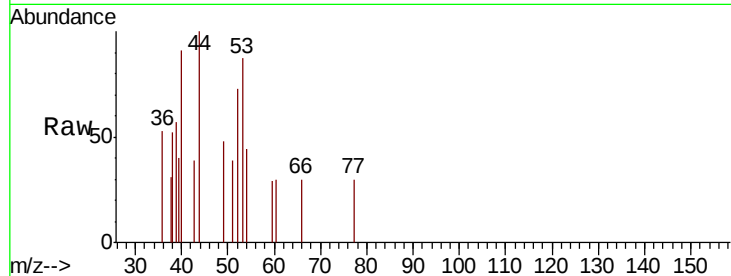
Tgt Ion: 53 Resp: 240

Ion Ratio Lower Upper

53 100

52 111.3 65.5 98.3#

51 21.3 27.9 41.9#



#16

Acetone

Concen: 0.502 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX011503.D

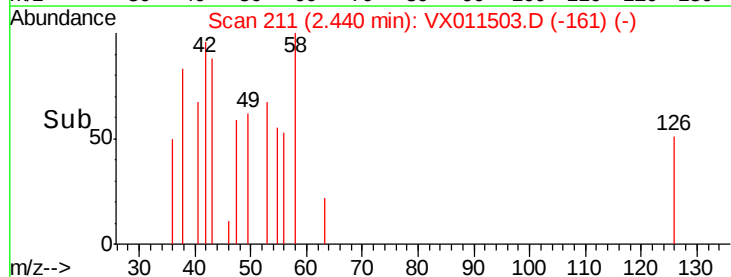
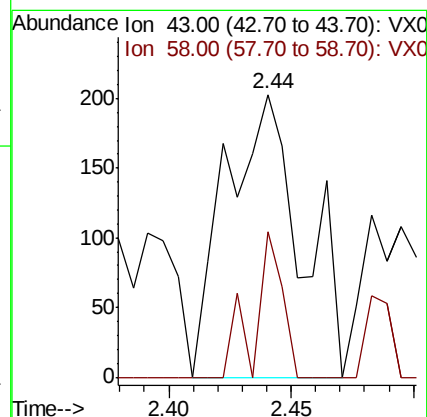
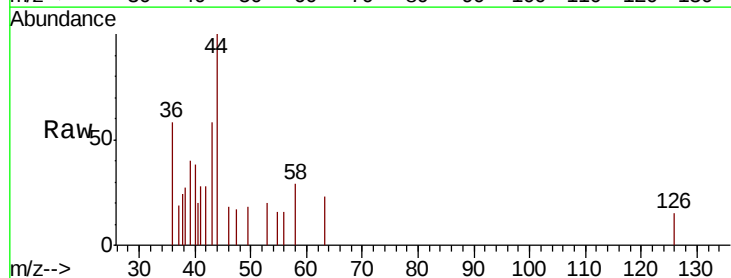
Acq: 12 Aug 2019 23:39

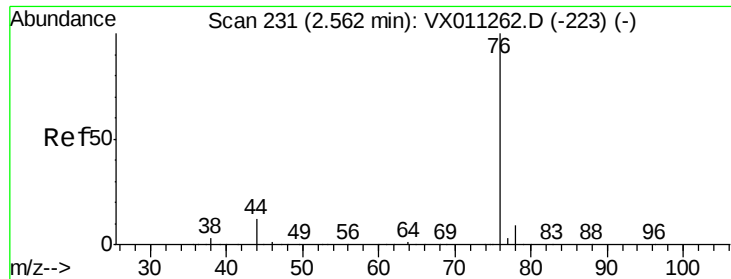
Tgt Ion: 43 Resp: 436

Ion Ratio Lower Upper

43 100

58 51.2 27.4 41.0#

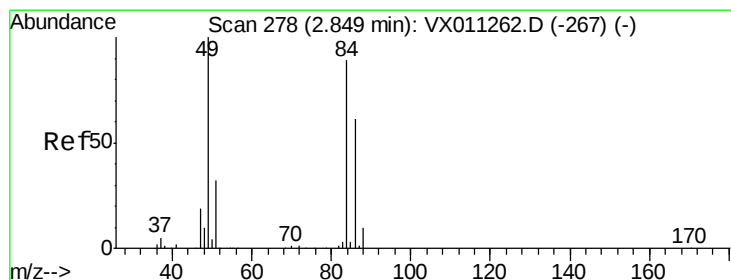
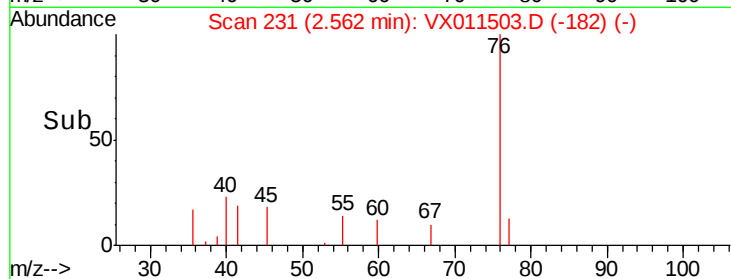
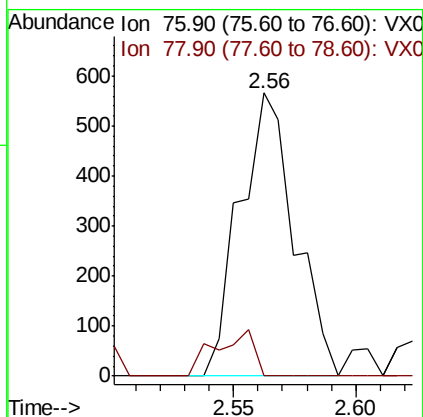
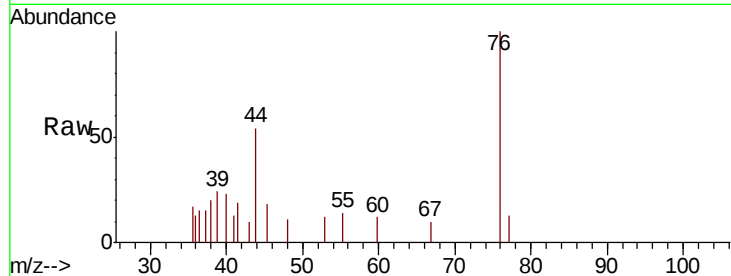




#17  
Carbon Disulfide  
Concen: 0.230 ug/l  
RT: 2.56 min Scan# 231  
Delta R.T. 0.00 min  
Lab File: VX011503.D  
Acq: 12 Aug 2019 23:39

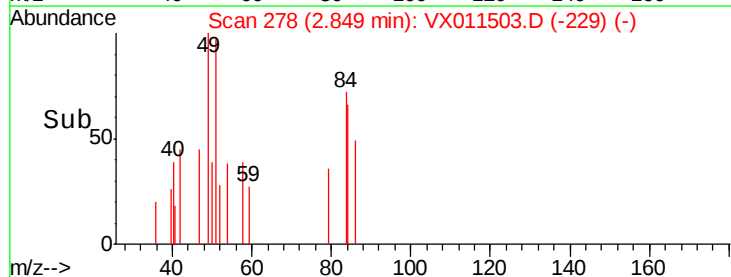
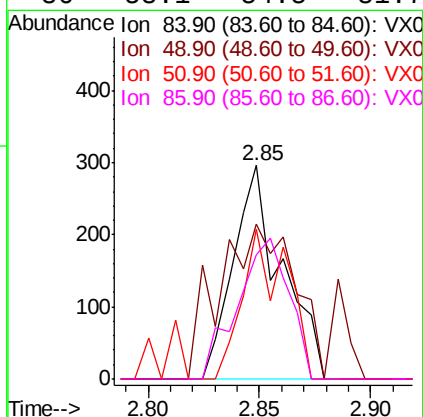
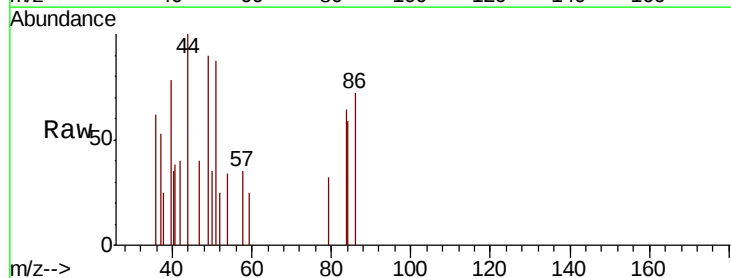
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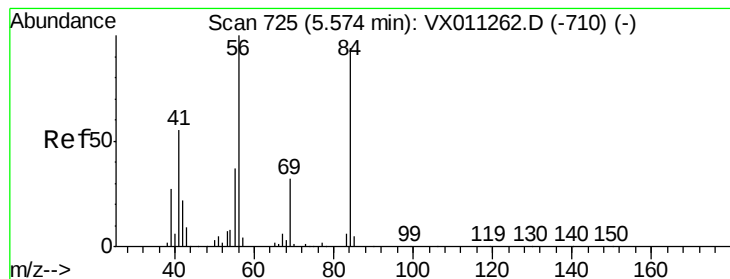
Tgt Ion: 76 Resp: 889  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



#20  
Methylene Chloride  
Concen: 0.235 ug/l  
RT: 2.85 min Scan# 278  
Delta R.T. 0.00 min  
Lab File: VX011503.D  
Acq: 12 Aug 2019 23:39

Tgt Ion: 84 Resp: 446  
Ion Ratio Lower Upper  
84 100  
49 72.6 89.3 133.9#  
51 70.3 28.3 42.5#  
86 58.1 54.5 81.7





#31

Cyclohexane

Concen: 1.560 ug/l

RT: 5.65 min Scan# 737

Delta R.T. 0.07 min

Lab File: VX011503.D

Acq: 12 Aug 2019 23:39

Instrument :

MSVOA\_X

ClientSampleId :

Z3-TB-2019-5

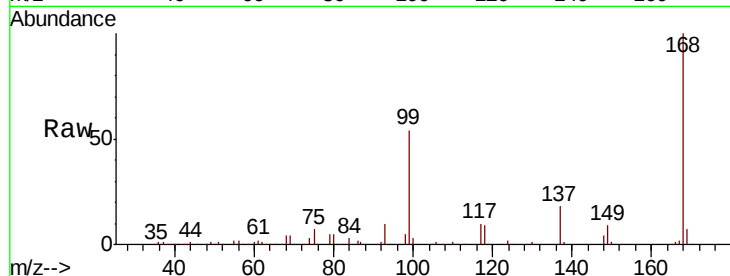
Tgt Ion: 56 Resp: 3664

Ion Ratio Lower Upper

56 100

69 171.8 25.5 38.3#

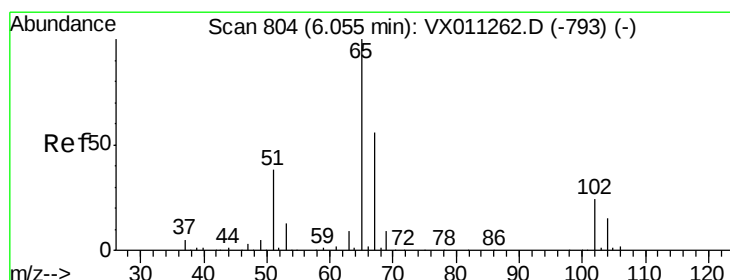
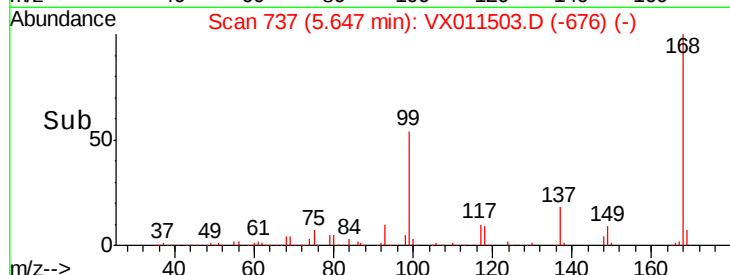
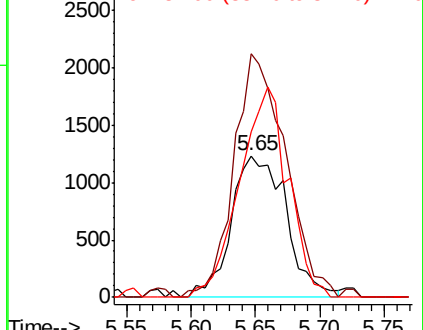
84 116.5 75.0 112.4#



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: 54.925 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011503.D

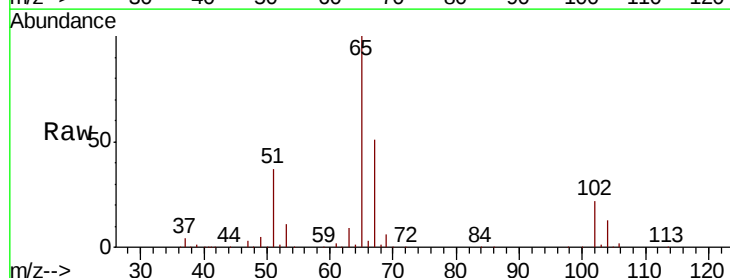
Acq: 12 Aug 2019 23:39

Tgt Ion: 65 Resp: 100194

Ion Ratio Lower Upper

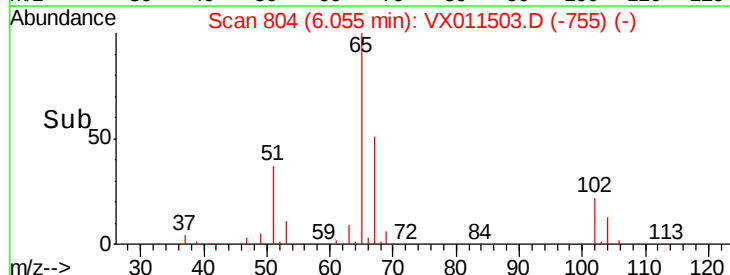
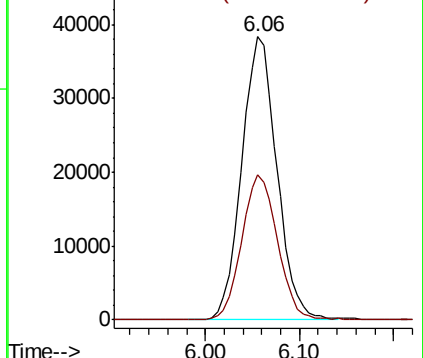
65 100

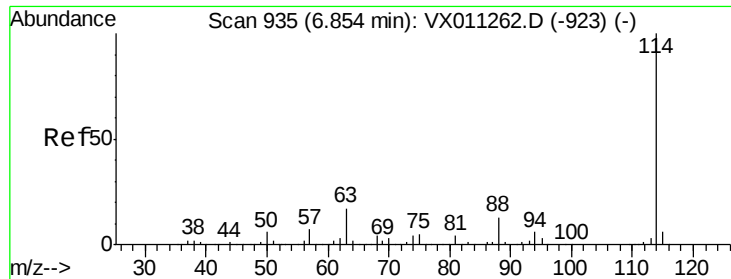
67 52.2 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

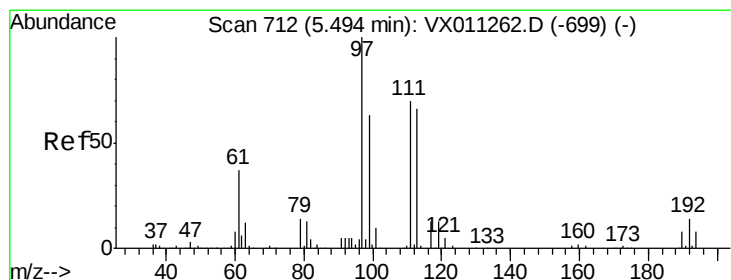
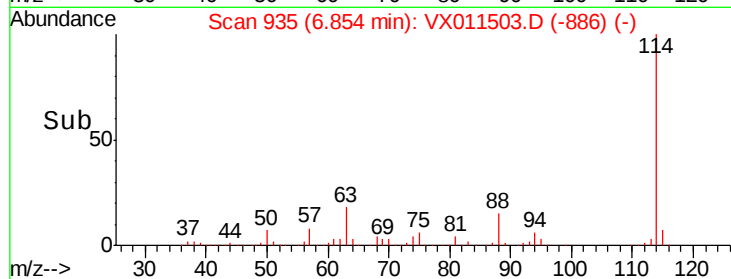
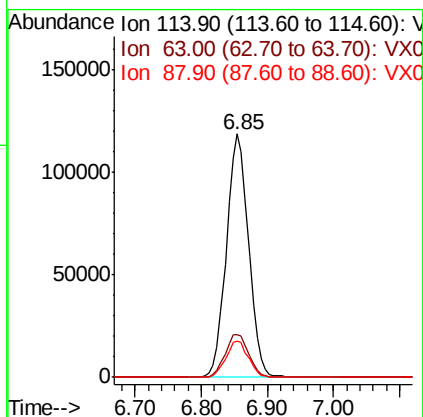
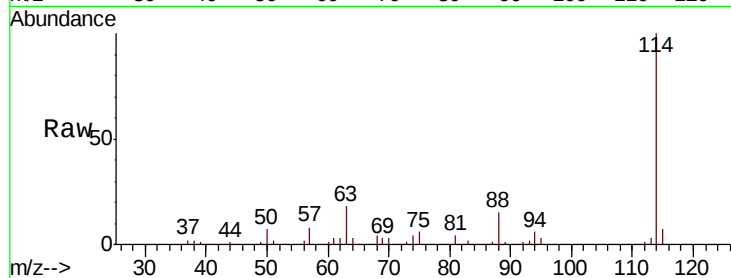




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. 0.00 min  
 Lab File: VX011503.D  
 Acq: 12 Aug 2019 23:39

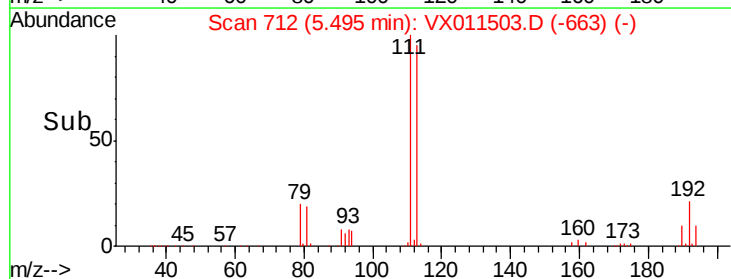
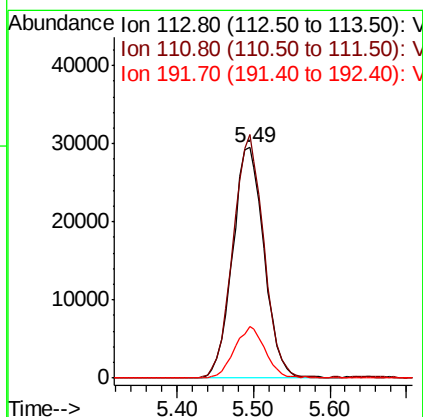
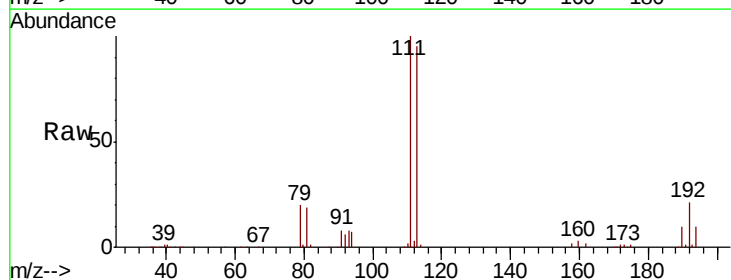
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-TB-2019-5

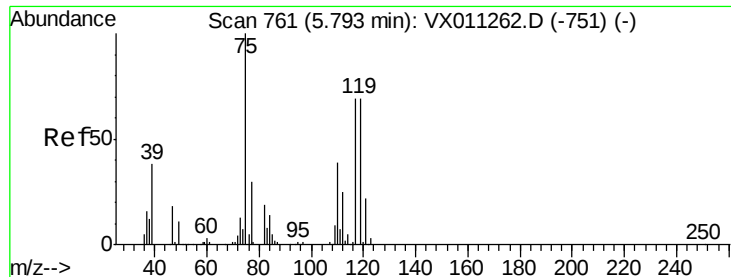
Tgt Ion:114 Resp: 275323  
 Ion Ratio Lower Upper  
 114 100  
 63 17.7 0.0 34.0  
 88 15.1 0.0 26.4



#35  
 Dibromofluoromethane  
 Concen: 46.837 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. 0.00 min  
 Lab File: VX011503.D  
 Acq: 12 Aug 2019 23:39

Tgt Ion:113 Resp: 84190  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 81.9 122.9  
 192 21.9 17.8 26.8

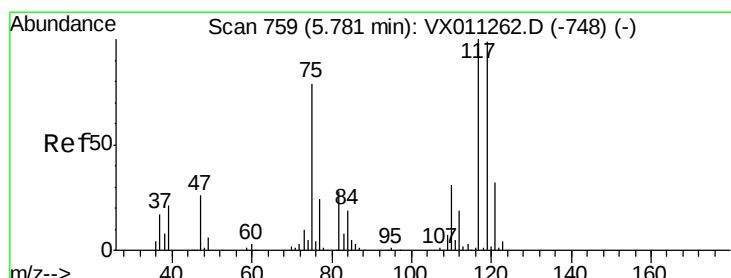
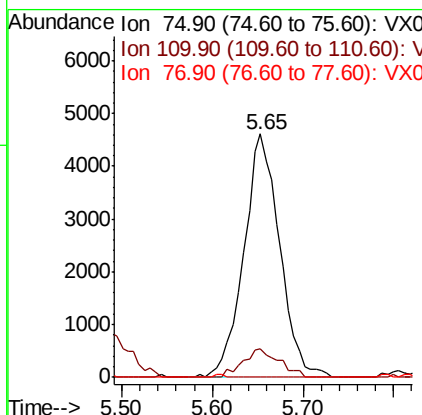
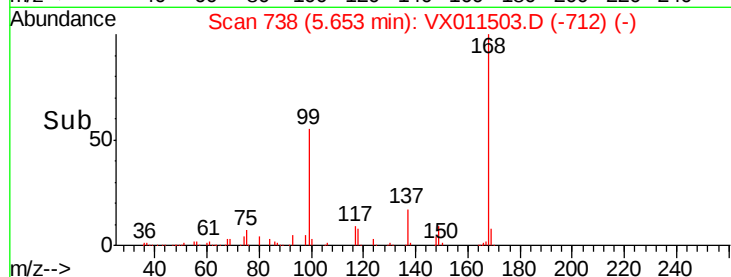
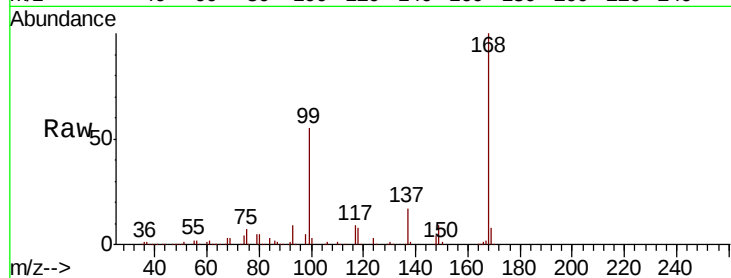




#36  
 1,1-Dichloropropene  
 Concen: 5.251 ug/l  
 RT: 5.65 min Scan# 738  
 Delta R.T. -0.14 min  
 Lab File: VX011503.D  
 Acq: 12 Aug 2019 23:39

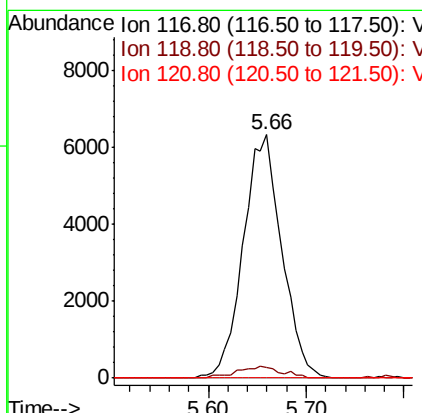
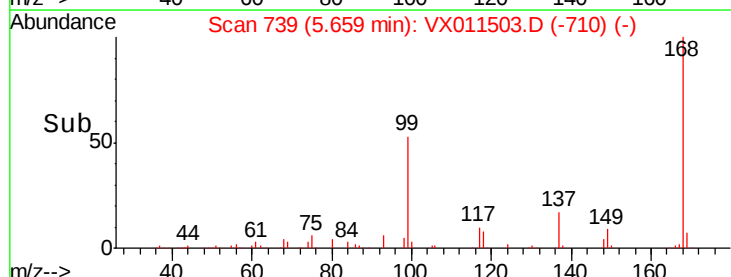
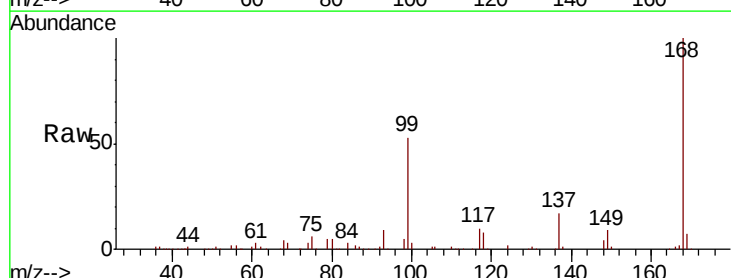
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-TB-2019-5

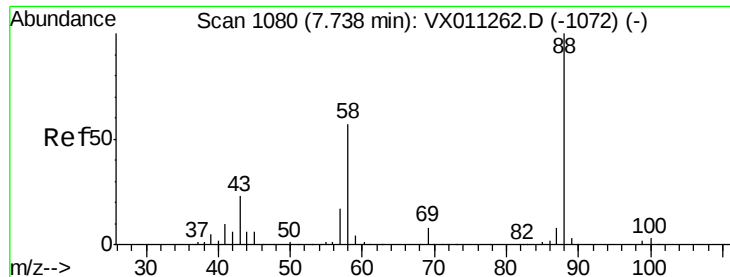
Tgt Ion: 75 Resp: 12623  
 Ion Ratio Lower Upper  
 75 100  
 110 11.6 20.0 59.9#  
 77 0.0 24.8 37.2#



#38  
 Carbon Tetrachloride  
 Concen: 7.164 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.12 min  
 Lab File: VX011503.D  
 Acq: 12 Aug 2019 23:39

Tgt Ion: 117 Resp: 17325  
 Ion Ratio Lower Upper  
 117 100  
 119 4.2 79.0 118.4#  
 121 0.0 25.9 38.9#

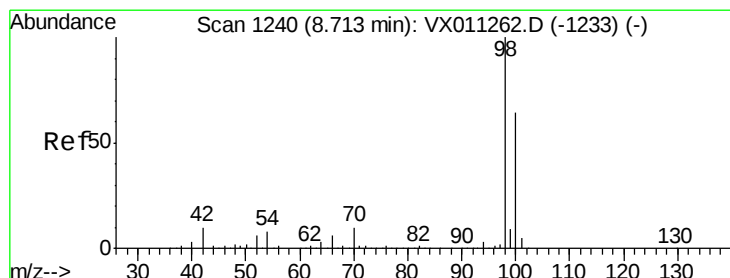
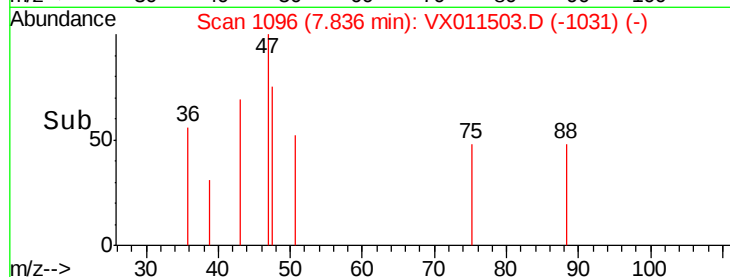
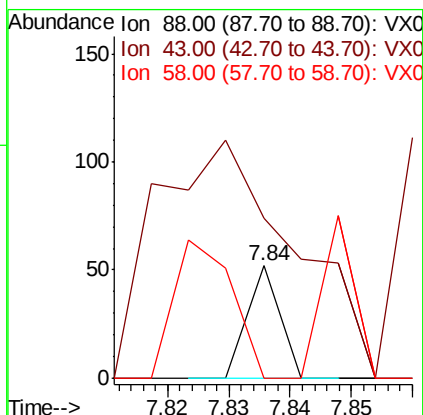
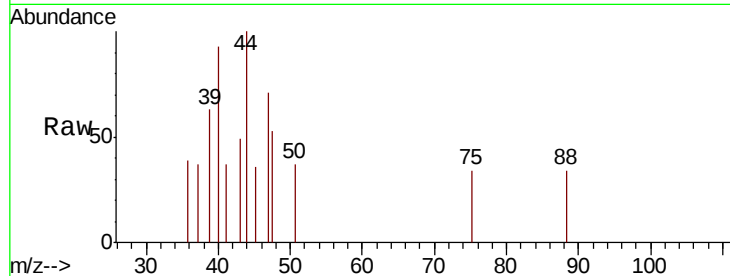




#49  
1,4-Dioxane  
Concen: 0.361 ug/l  
RT: 7.84 min Scan# 1096  
Delta R.T. 0.10 min  
Lab File: VX011503.D  
Acq: 12 Aug 2019 23:39

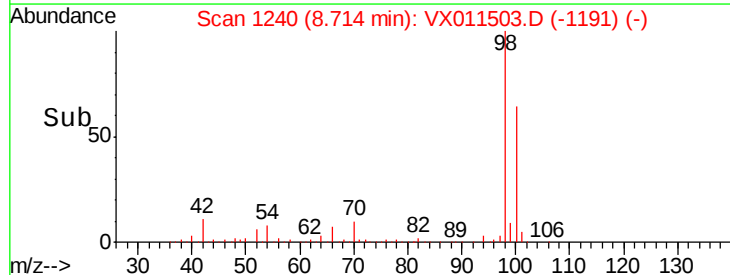
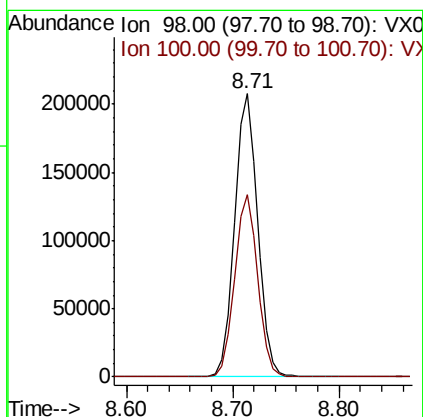
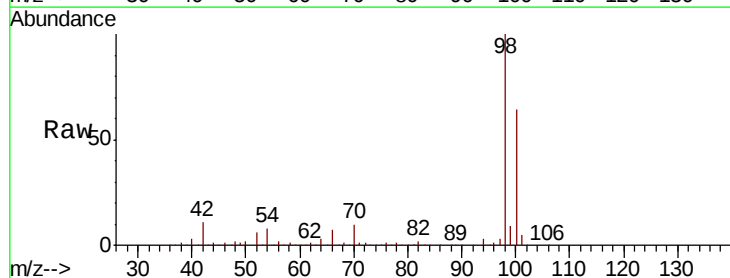
Instrument :  
MSVOA\_X  
ClientSampleId :  
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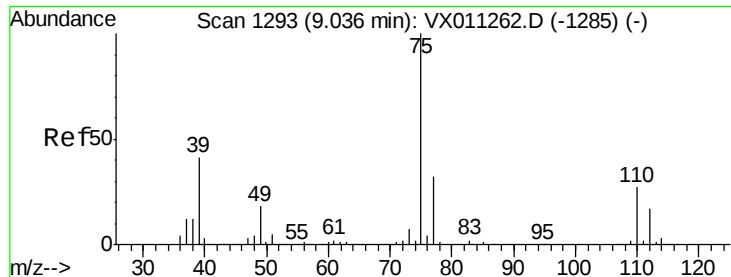
Tgt Ion: 88 Resp: 19  
Ion Ratio Lower Upper  
88 100  
43 905.3 22.2 33.2#  
58 221.1 47.8 71.8#



#50  
Toluene-d8  
Concen: 46.719 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX011503.D  
Acq: 12 Aug 2019 23:39

Tgt Ion: 98 Resp: 316992  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.7 77.5

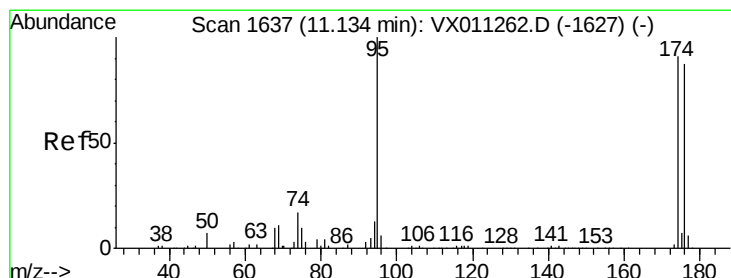
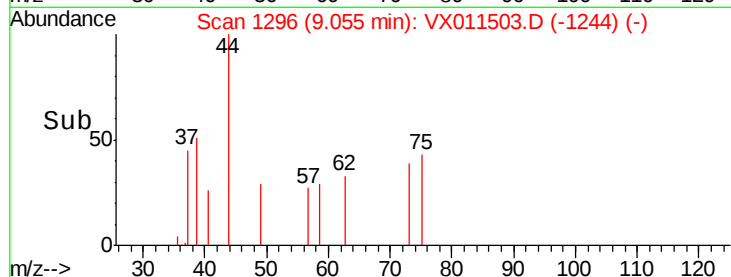
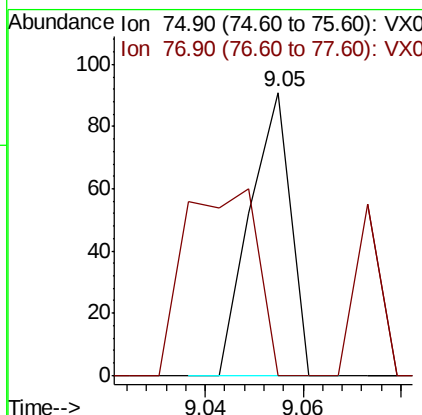
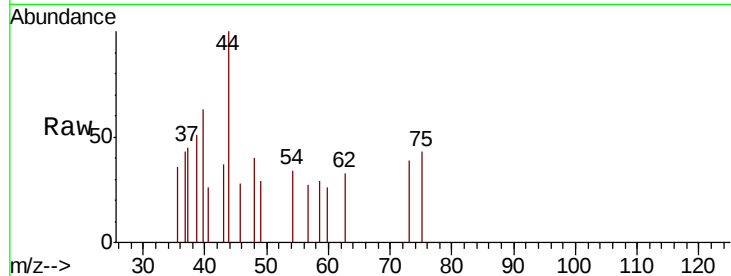




#53  
t-1,3-Dichloropropene  
Concen: 2.857 ug/l  
RT: 9.05 min Scan# 1296  
Delta R.T. 0.02 min  
Lab File: VX011503.D  
Acq: 12 Aug 2019 23:39

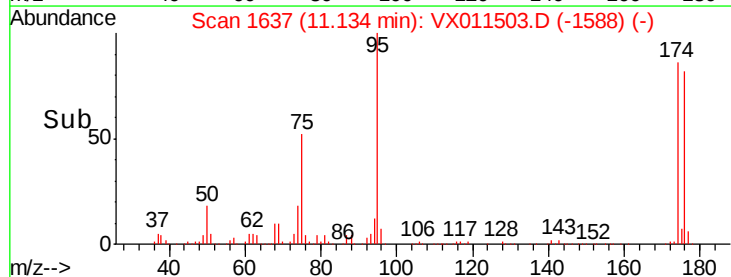
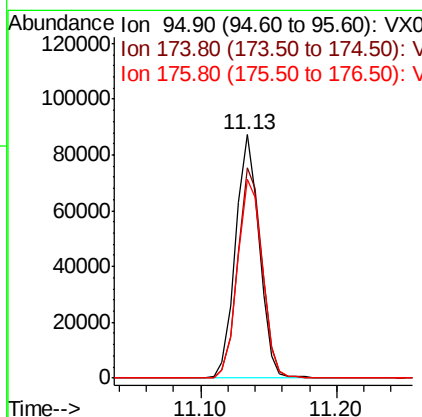
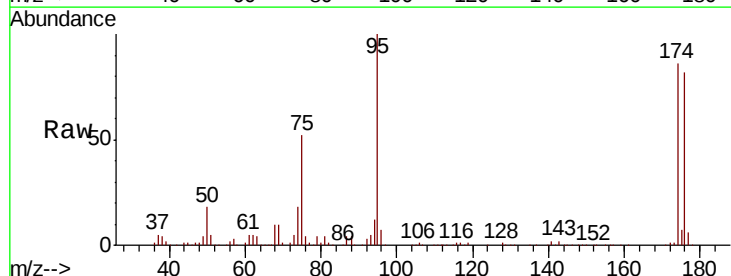
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z3-TB-2019-5

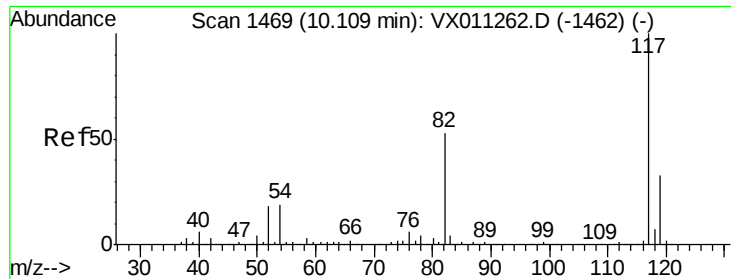
Tgt Ion: 75 Resp: 52  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.4 38.0#



#62  
4-Bromofluorobenzene  
Concen: 43.845 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX011503.D  
Acq: 12 Aug 2019 23:39

Tgt Ion: 95 Resp: 106213  
Ion Ratio Lower Upper  
95 100  
174 88.7 0.0 191.2  
176 85.7 0.0 184.8

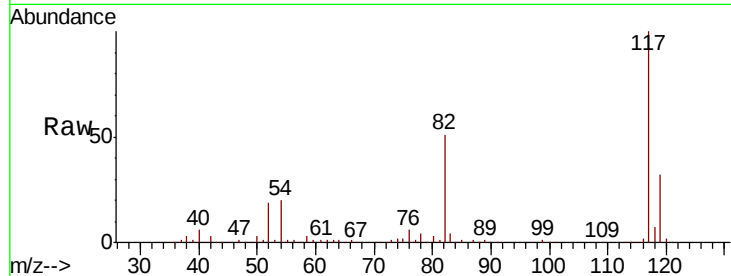




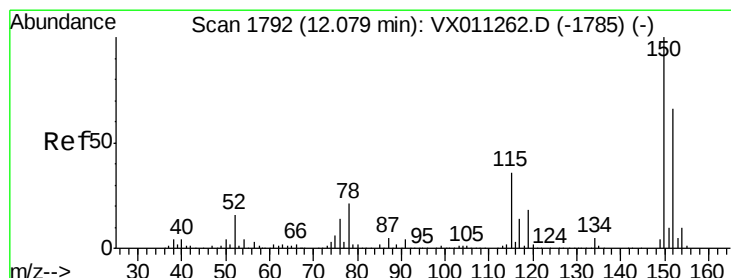
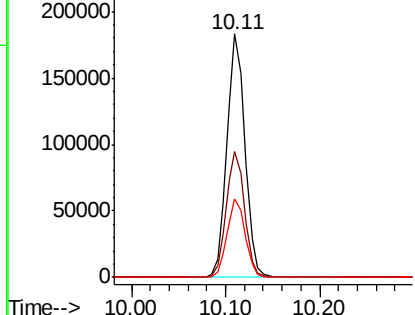
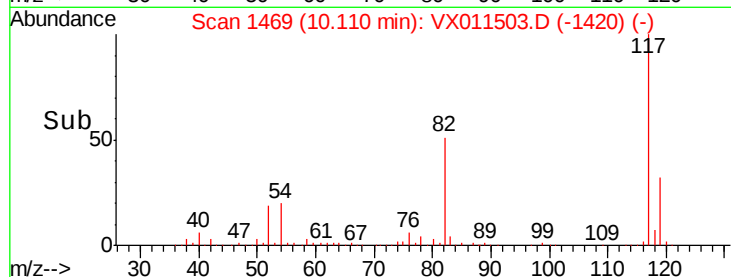
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011503.D  
Acq: 12 Aug 2019 23:39

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Tgt Ion:117 Resp: 242774  
Ion Ratio Lower Upper  
117 100  
82 51.5 42.2 63.2  
119 32.2 26.6 39.8

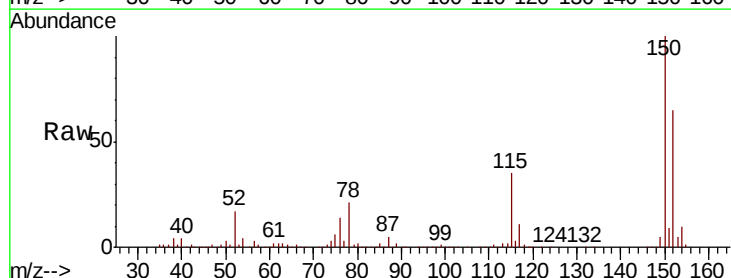


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

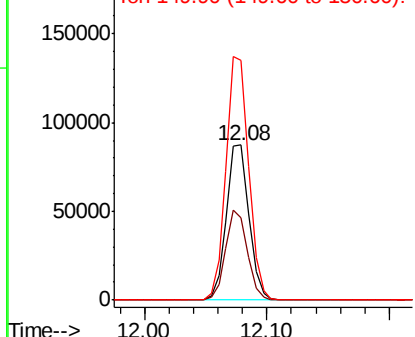
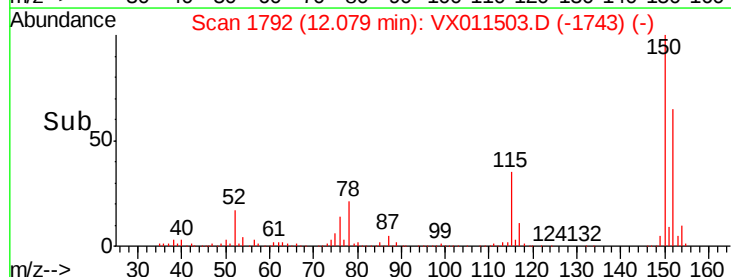


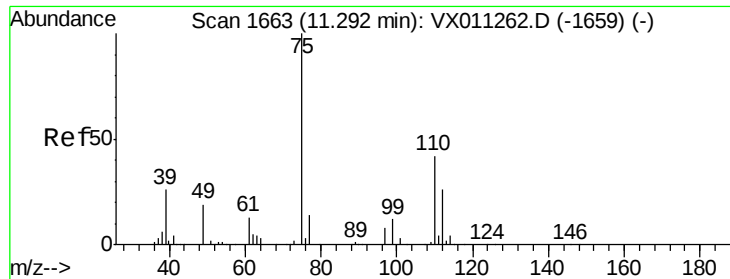
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX011503.D  
Acq: 12 Aug 2019 23:39

Tgt Ion:152 Resp: 111526  
Ion Ratio Lower Upper  
152 100  
115 56.0 40.0 119.9  
150 157.3 0.0 350.4



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

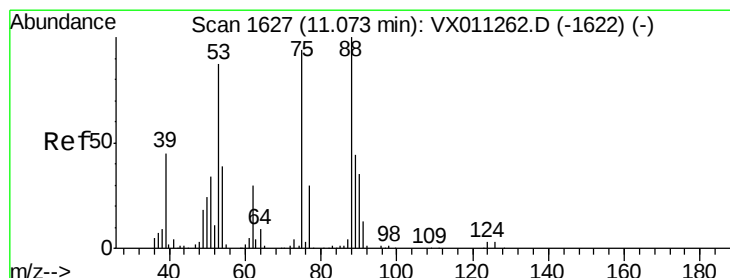
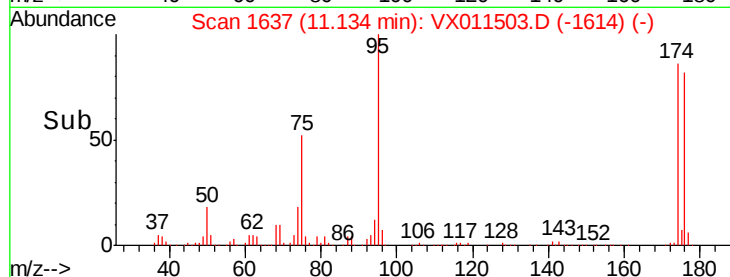
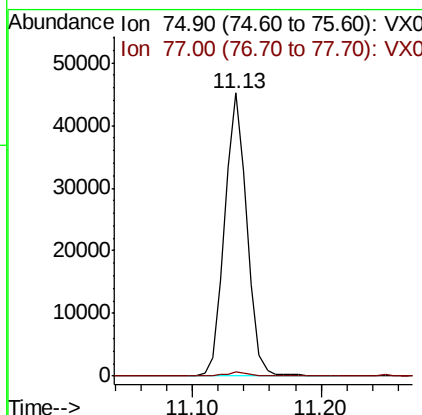
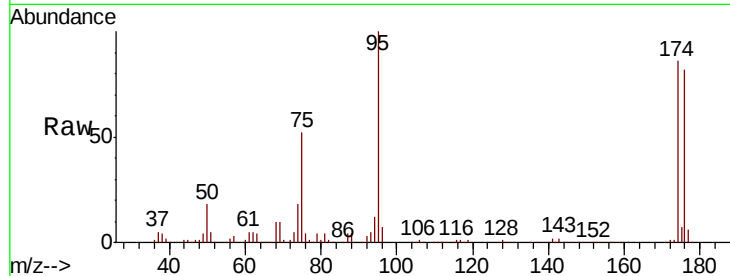




#76  
 1,2,3-Trichloropropane  
 Concen: 27.052 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX011503.D  
 Acq: 12 Aug 2019 23:39

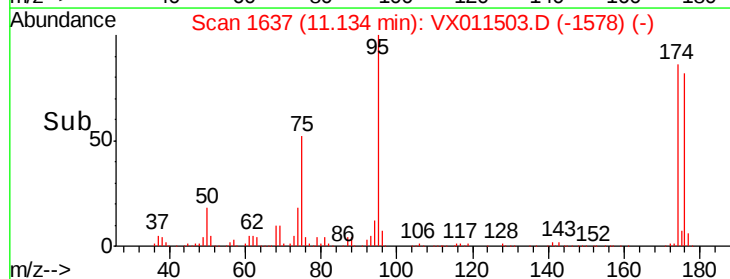
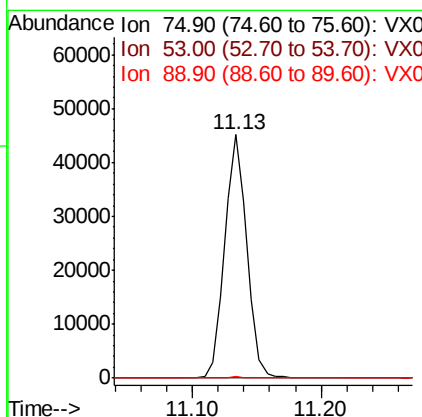
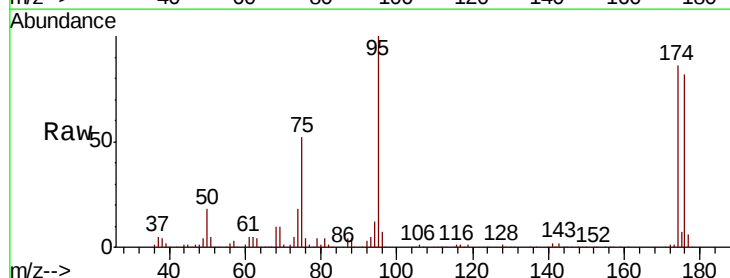
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-TB-2019-5

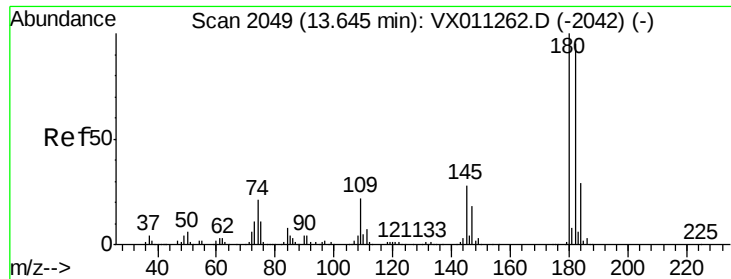
Tgt Ion: 75 Resp: 54943  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 21.1 63.4#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 70.222 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX011503.D  
 Acq: 12 Aug 2019 23:39

Tgt Ion: 75 Resp: 54943  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 78.2 117.4#  
 89 0.4 37.9 56.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.231 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX011503.D

Acq: 12 Aug 2019 23:39

Instrument :

MSVOA\_X

ClientSampleId :

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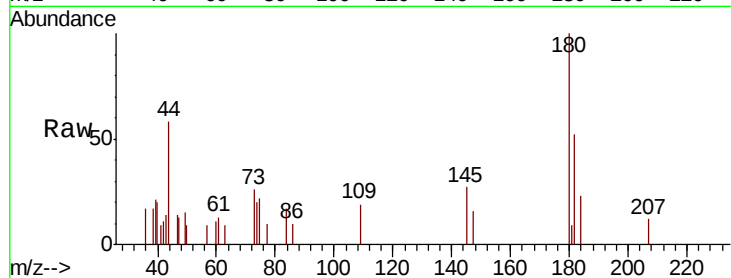
Tgt Ion:180 Resp: 576

Ion Ratio Lower Upper

180 100

182 75.9 47.8 143.4

145 28.5 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

