

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\  
 Data File : VX004104.D  
 Acq On : 16 Aug 2018 06:14  
 Operator : JC/MD  
 Sample : J4495-09DL 4X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS050MW636-180814DL

Quant Time: Aug 16 07:20:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 14 13:27:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 250510   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 388370   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 365731   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 215054   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 187280   | 53.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.12% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 152699   | 52.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.06% |          |
| 50) Toluene-d8              | 8.72  | 98   | 562972   | 47.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.54%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 196934   | 46.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.14%  |          |

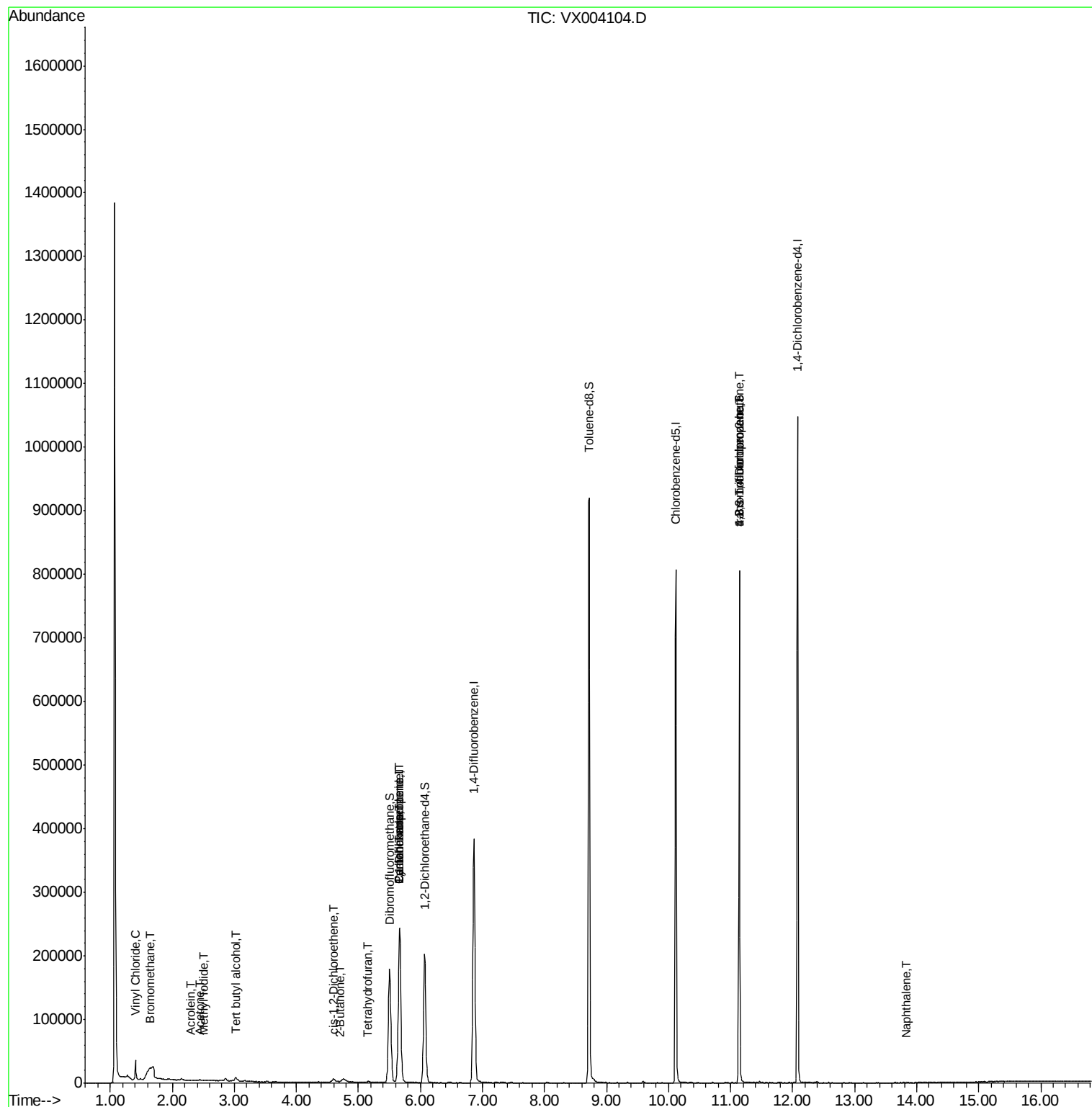
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 4) Vinyl Chloride              | 1.40  | 62   | 19792    | 6.11      | ug/l  | 98     |
| 5) Bromomethane                | 1.64  | 94   | 1079     | 0.48      | ug/l  | 96     |
| 6) Chloroethane                | 1.70  | 64   | 1609     | Below Cal | #     | 74     |
| 10) Methyl Iodide              | 2.51  | 142  | 528      | 5.17      | ug/l  | # 68   |
| 11) Tert butyl alcohol         | 3.01  | 59   | 4586     | 6.45      | ug/l  | # 77   |
| 13) Acrolein                   | 2.29  | 56   | 135      | 11.22     | ug/l  | # 68   |
| 16) Acetone                    | 2.44  | 43   | 1789     | 0.97      | ug/l  | 99     |
| 20) Methylene Chloride         | 2.85  | 84   | 1565     | Below Cal |       | 95     |
| 25) 2-Butanone                 | 4.70  | 43   | 798      | 0.27      | ug/l  | # 48   |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96   | 2385     | 0.71      | ug/l  | # 1    |
| 29) Tetrahydrofuran            | 5.16  | 42   | 1155     | 0.76      | ug/l  | # 71   |
| 31) Cyclohexane                | 5.66  | 56   | 4619     | 0.95      | ug/l  | # 1    |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 17968    | 4.07      | ug/l  | # 49   |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 22182    | 5.17      | ug/l  | # 15   |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 97490    | 22.61     | ug/l  | # 36   |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 97490    | 69.97     | ug/l  | # 9    |
| 95) Naphthalene                | 13.84 | 128  | 267      | 1.16      | ug/l  | # 69   |

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

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Instrument :  
MSVOA\_X  
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Quant Time: Aug 16 07:20:03 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X081418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 14 13:27:25 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004104.D

Acq: 16 Aug 2018 06:14

Instrument :

MSVOA\_X

ClientSampleId :

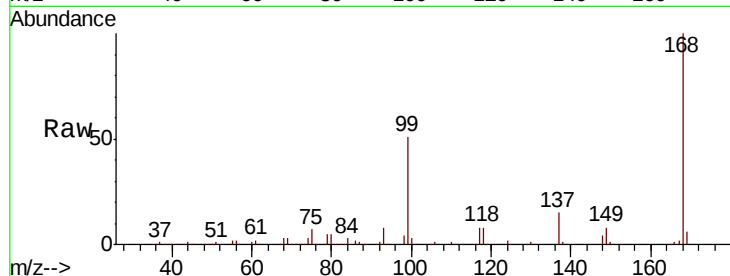
SS050MW636-180814DL

Tot Ion:168 Resp: 250510

Ion Ratio Lower Upper

168 100

99 50.6 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

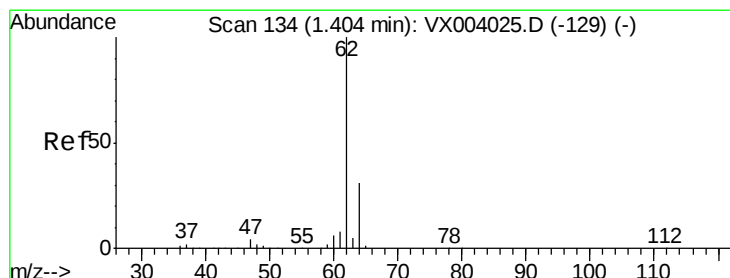
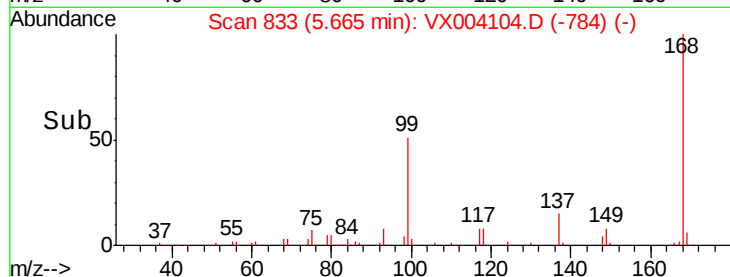
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 6.11 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX004104.D

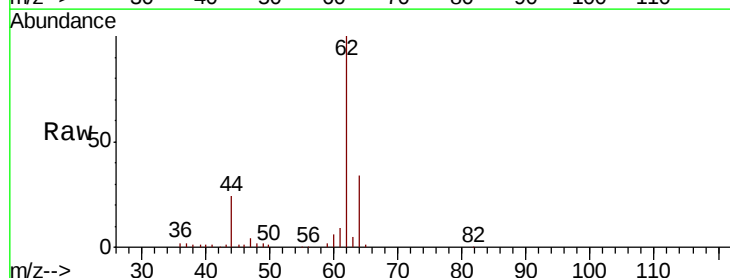
Acq: 16 Aug 2018 06:14

Tgt Ion: 62 Resp: 19792

Ion Ratio Lower Upper

62 100

64 33.6 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

20000

15000

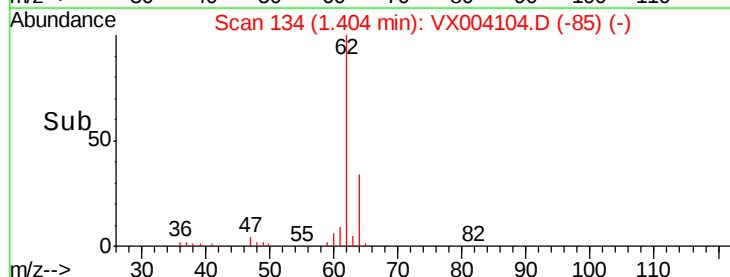
10000

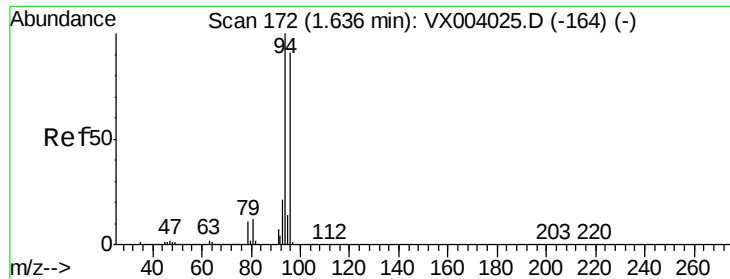
5000

0

Time-->

1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.48 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX004104.D

Acq: 16 Aug 2018 06:14

Instrument :

MSVOA\_X

ClientSampleId :

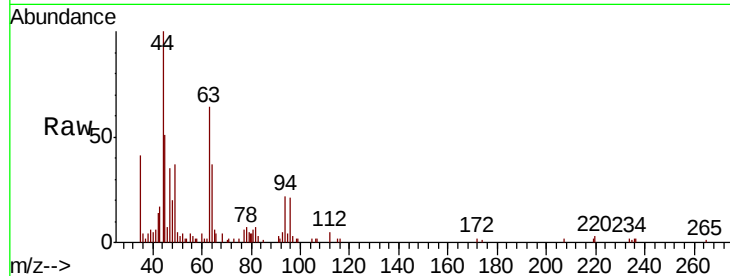
SS050MW636-180814DL

Tot Ion: 94 Resp: 1079

Ion Ratio Lower Upper

94 100

96 97.8 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

600

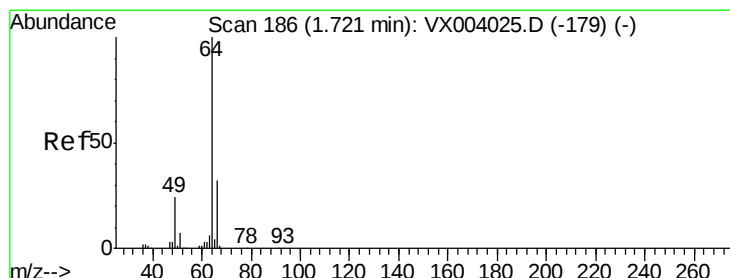
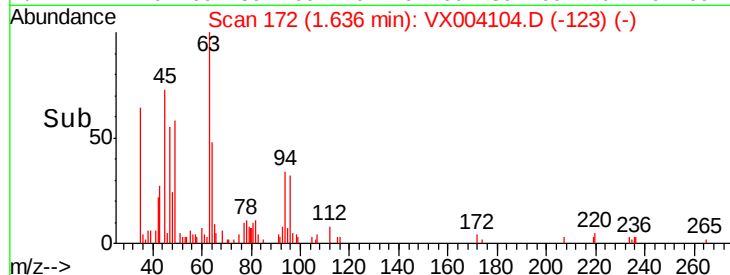
400

200

0

1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX004104.D

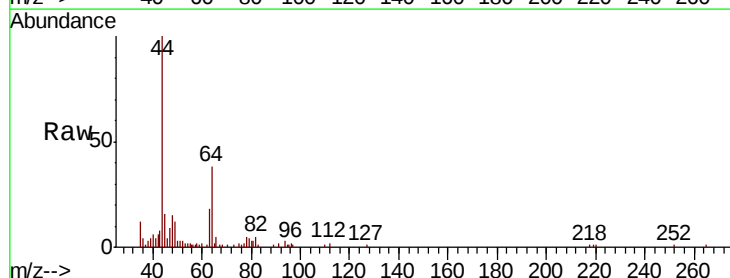
Acq: 16 Aug 2018 06:14

Tgt Ion: 64 Resp: 1609

Ion Ratio Lower Upper

64 100

66 18.2 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

2500

2000

1500

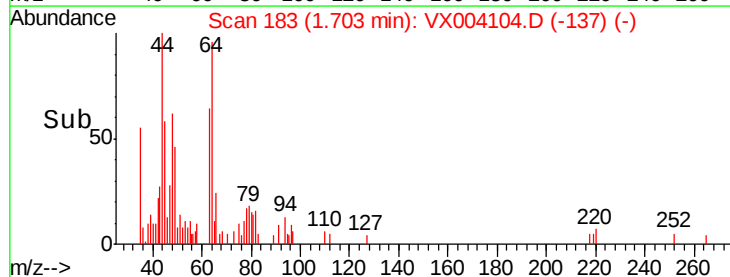
1000

500

0

1.68 1.70 1.72 1.74

Time-->

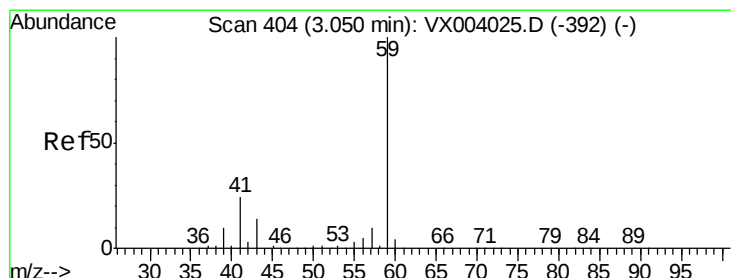
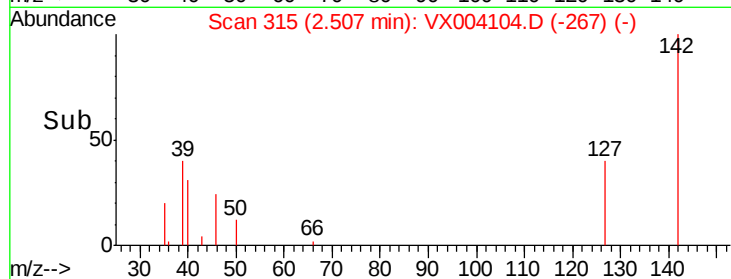
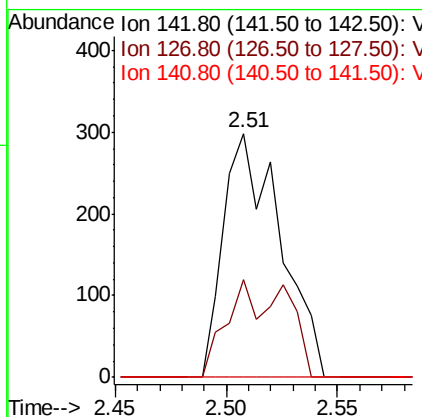
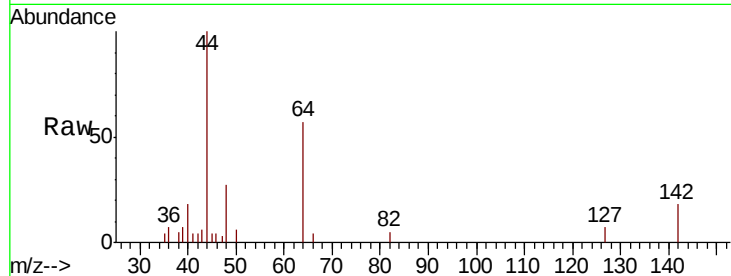




#10  
Methyl Iodide  
Concen: 5.17 ug/l  
RT: 2.51 min Scan# 315  
Delta R.T. -0.01 min  
Lab File: VX004104.D  
Acq: 16 Aug 2018 06:14

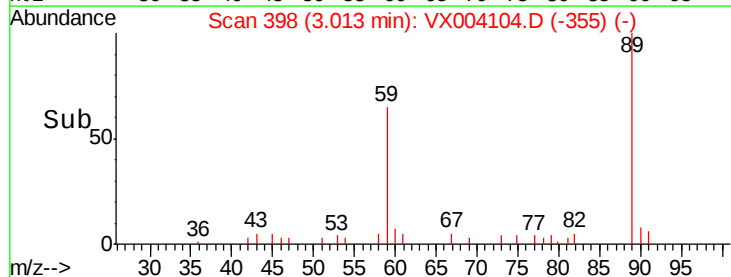
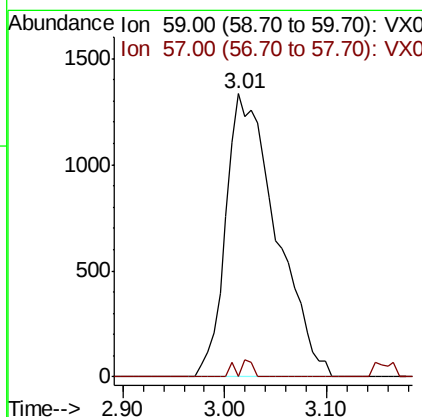
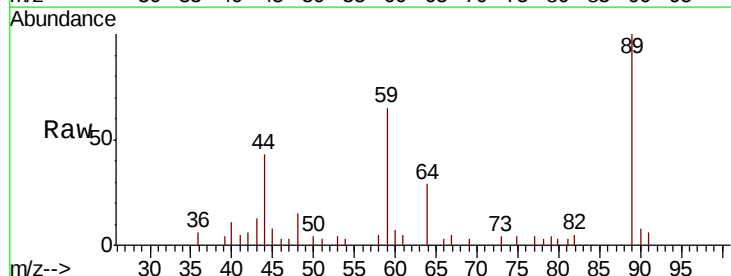
Instrument :  
MSVOA\_X  
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SS050MW636-180814DL

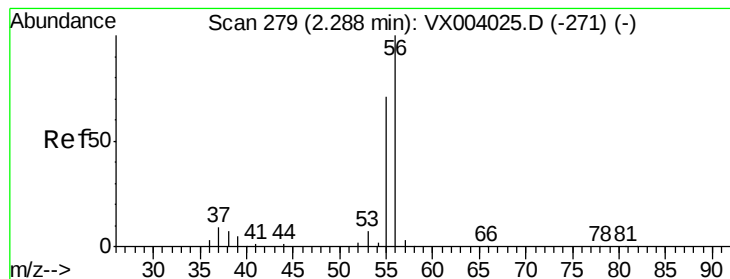
Tot Ion:142 Resp: 528  
Ion Ratio Lower Upper  
142 100  
127 21.6 33.1 49.7#  
141 0.0 11.1 16.7#



#11  
Tert butyl alcohol  
Concen: 6.45 ug/l  
RT: 3.01 min Scan# 398  
Delta R.T. -0.04 min  
Lab File: VX004104.D  
Acq: 16 Aug 2018 06:14

Tgt Ion: 59 Resp: 4586  
Ion Ratio Lower Upper  
59 100  
57 1.7 8.1 12.1#





#13

Acrolein

Concen: 11.22 ug/l

RT: 2.29 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004104.D

Acq: 16 Aug 2018 06:14

Instrument :

MSVOA\_X

ClientSampleId :

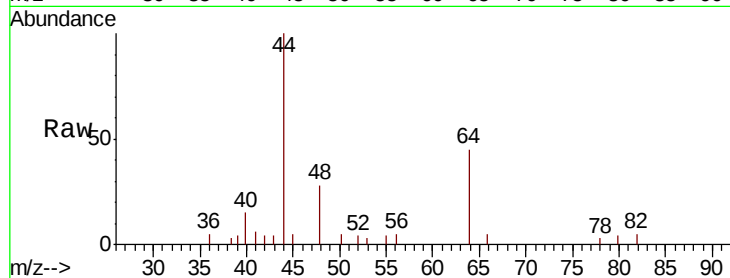
SS050MW636-180814DL

Tot Ion: 56 Resp: 135

Ion Ratio Lower Upper

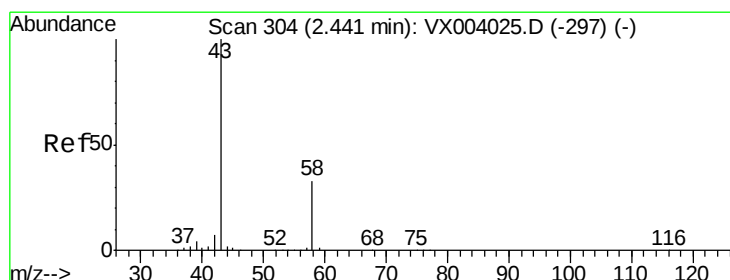
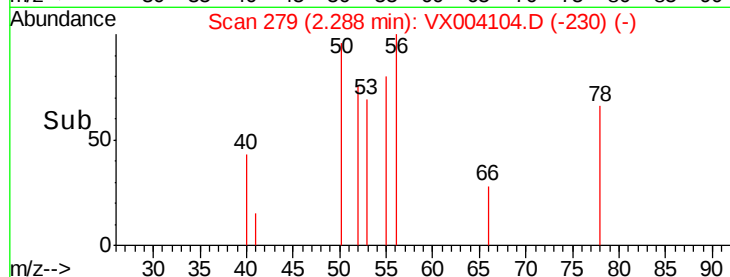
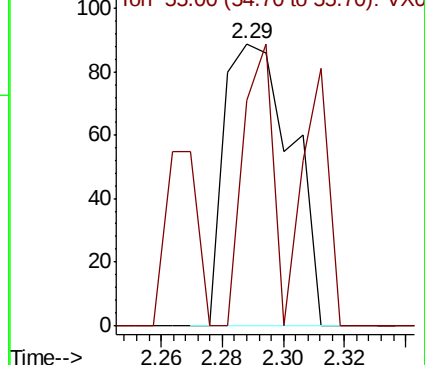
56 100

55 43.7 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.97 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004104.D

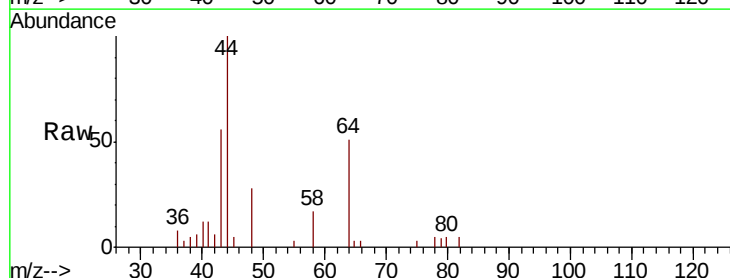
Acq: 16 Aug 2018 06:14

Tgt Ion: 43 Resp: 1789

Ion Ratio Lower Upper

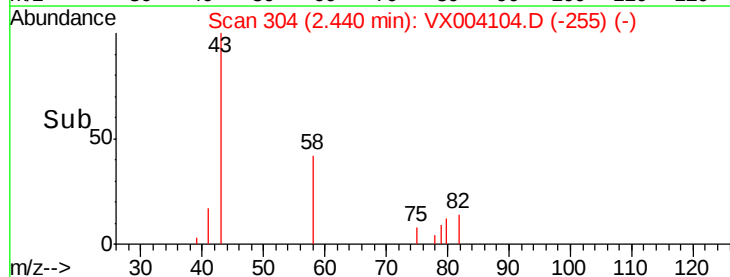
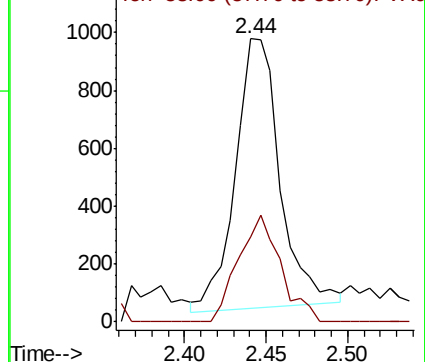
43 100

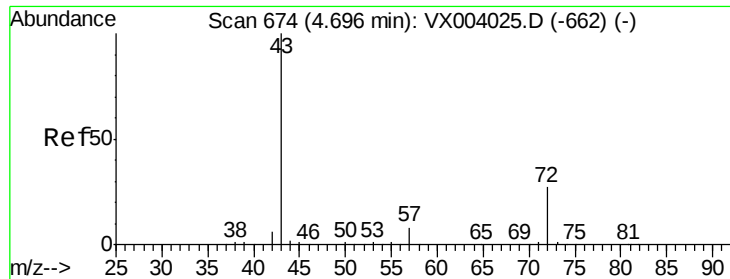
58 32.2 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#25

2-Butanone

Concen: 0.27 ug/l

RT: 4.70 min Scan# 675

Delta R.T. 0.01 min

Lab File: VX004104.D

Acq: 16 Aug 2018 06:14

Instrument :

MSVOA\_X

ClientSampleId :

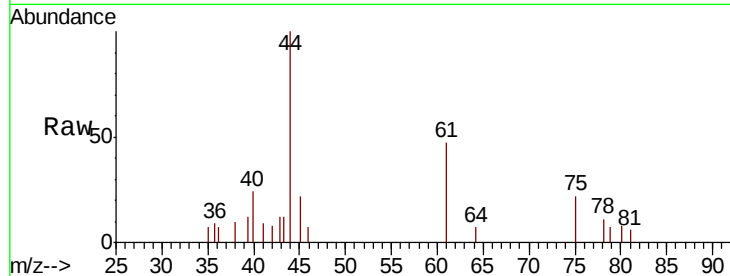
SS050MW636-180814DL

Tot Ion: 43 Resp: 798

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

200

150

100

50

0

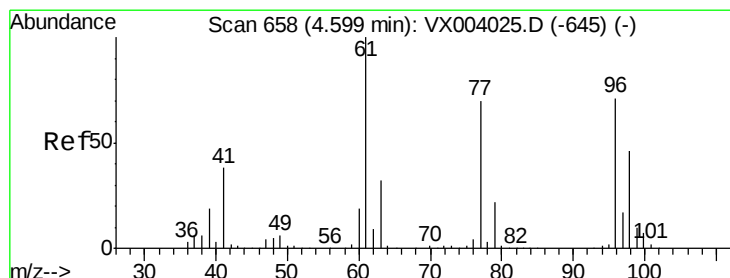
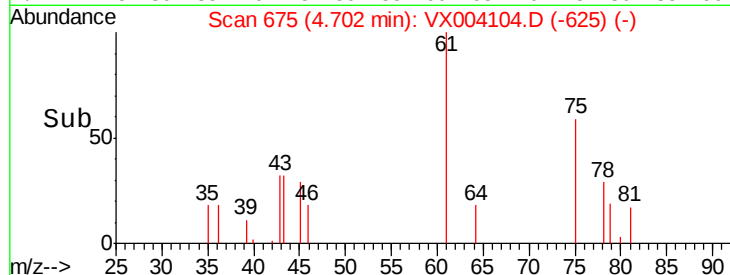
4.60

4.65

4.70

4.75

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.71 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004104.D

Acq: 16 Aug 2018 06:14

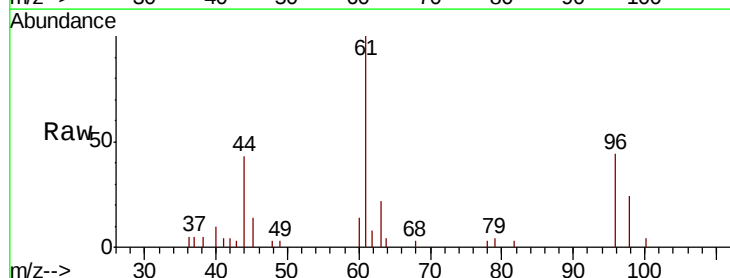
Tgt Ion: 96 Resp: 2385

Ion Ratio Lower Upper

96 100

61 442.8 0.0 293.0#

98 66.7 0.0 131.8



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

2500

2000

1500

1000

500

0

4.50

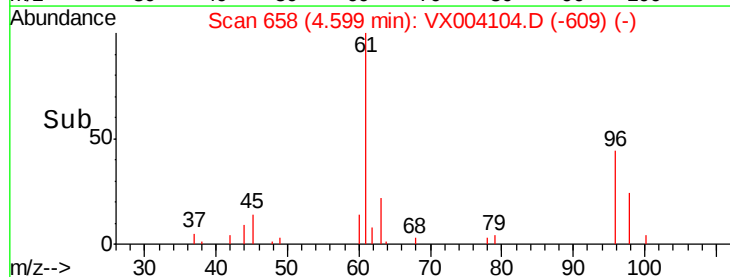
4.55

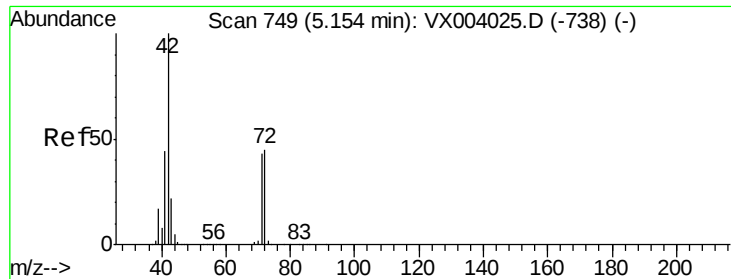
4.60

4.65

4.70

Time-->

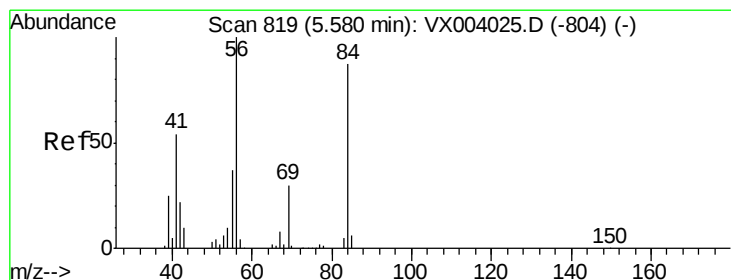
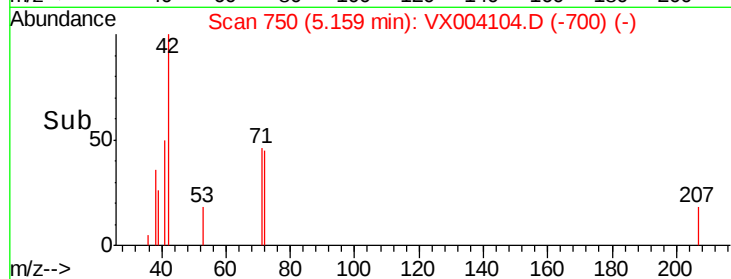
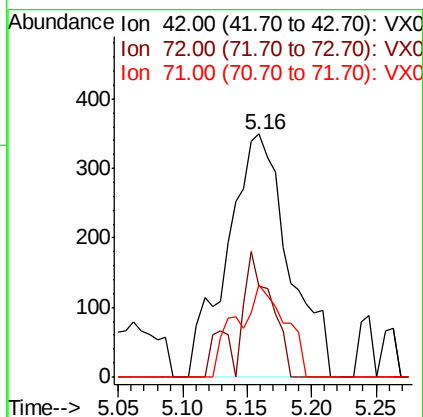
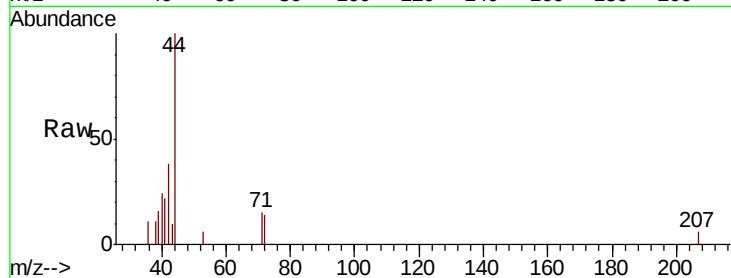




#29  
Tetrahydrofuran  
Concen: 0.76 ug/l  
RT: 5.16 min Scan# 750  
Delta R.T. 0.01 min  
Lab File: VX004104.D  
Acq: 16 Aug 2018 06:14

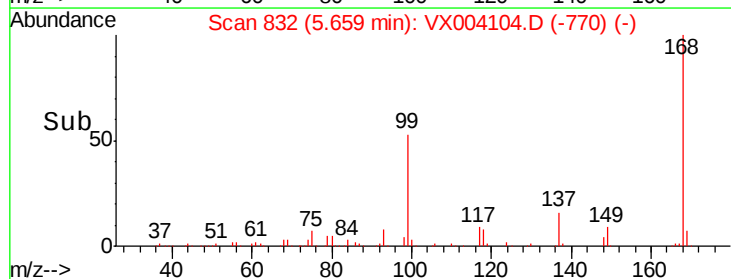
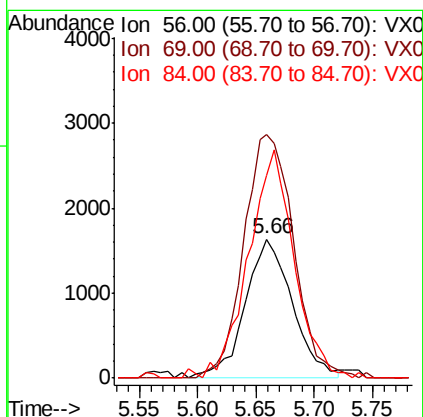
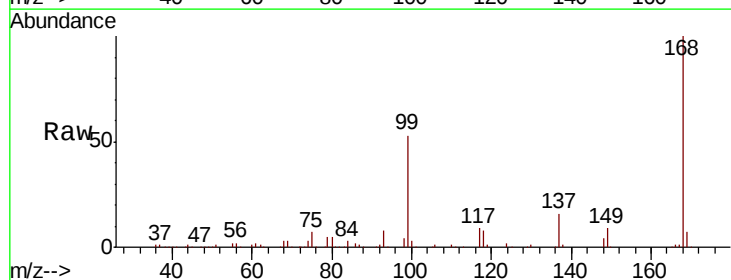
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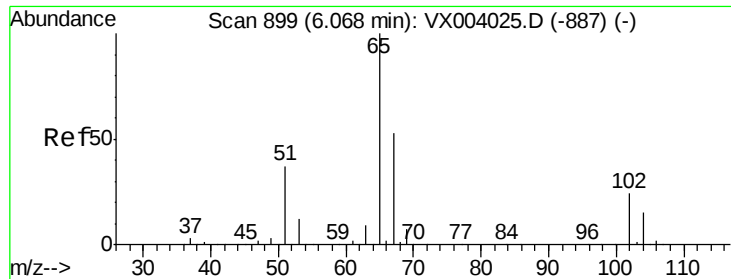
Tot Ion: 42 Resp: 1155  
Ion Ratio Lower Upper  
42 100  
72 22.3 37.7 56.5#  
71 30.5 35.0 52.6#



#31  
Cyclohexane  
Concen: 0.95 ug/l  
RT: 5.66 min Scan# 832  
Delta R.T. 0.08 min  
Lab File: VX004104.D  
Acq: 16 Aug 2018 06:14

Tgt Ion: 56 Resp: 4619  
Ion Ratio Lower Upper  
56 100  
69 174.9 24.9 37.3#  
84 141.8 71.7 107.5#

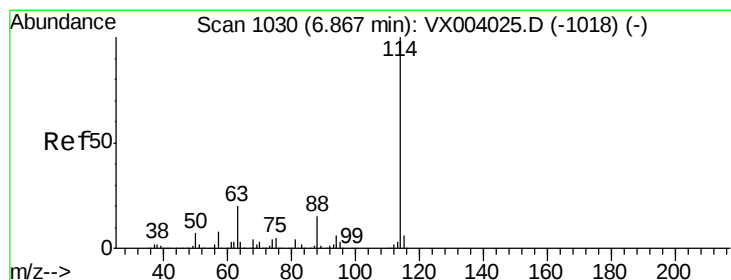
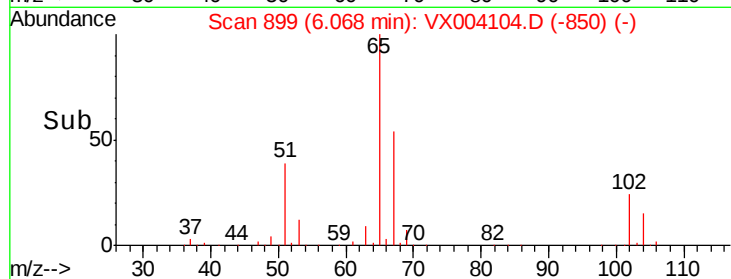
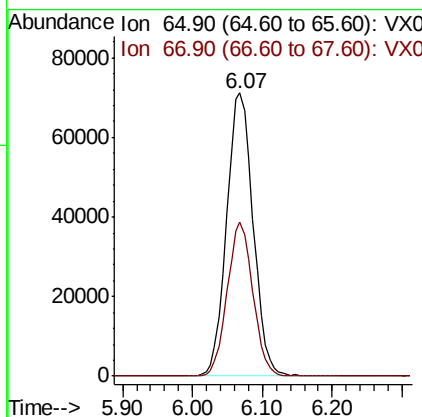
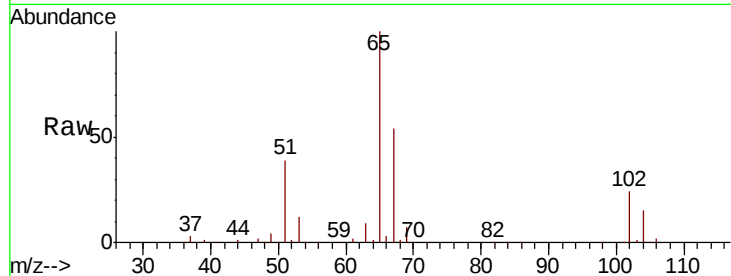




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.06 ug/l  
 RT: 6.07 min Scan# 899  
 Delta R.T. -0.00 min  
 Lab File: VX004104.D  
 Acq: 16 Aug 2018 06:14

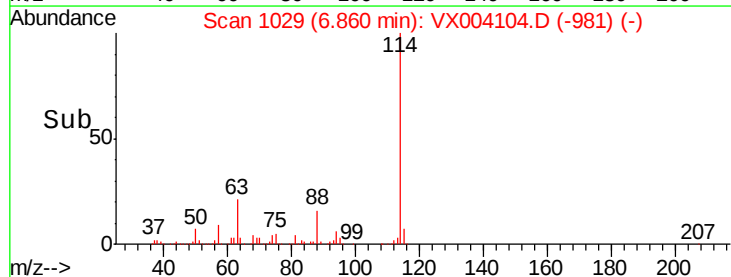
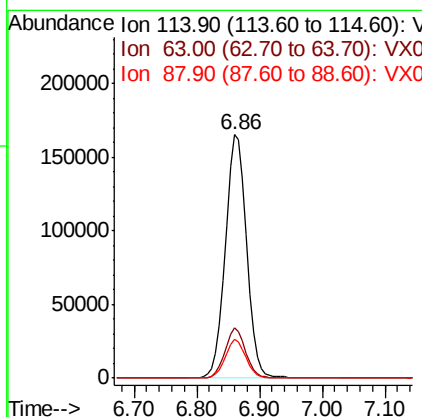
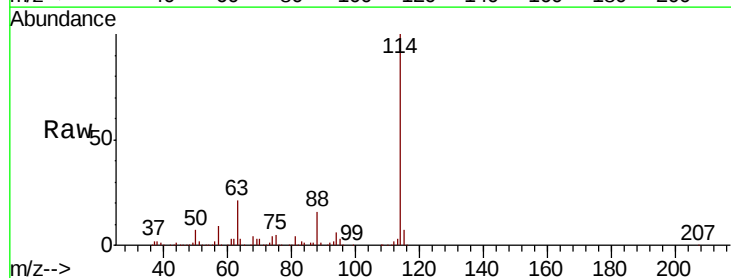
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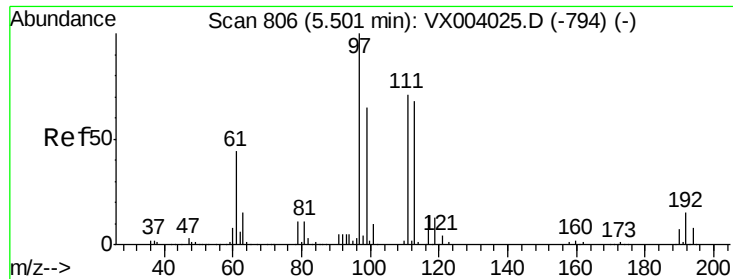
Tot Ion: 65 Resp: 187280  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 105.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 1029  
 Delta R.T. -0.01 min  
 Lab File: VX004104.D  
 Acq: 16 Aug 2018 06:14

Tgt Ion: 114 Resp: 388370  
 Ion Ratio Lower Upper  
 114 100  
 63 20.6 0.0 39.0  
 88 16.1 0.0 32.0

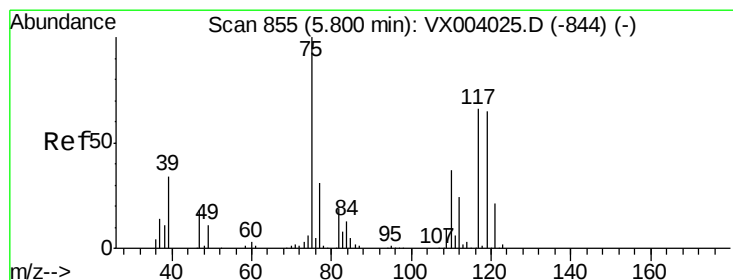
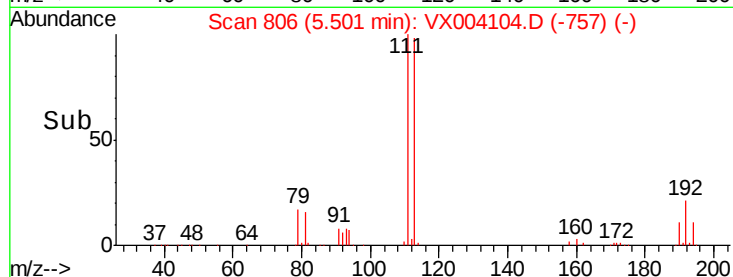
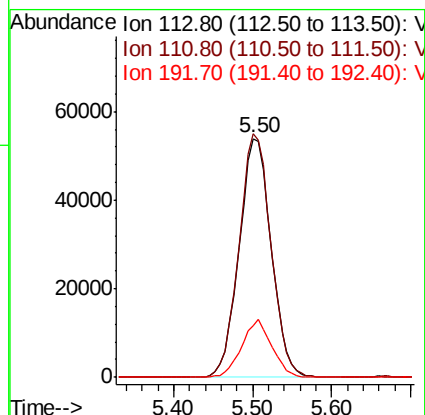
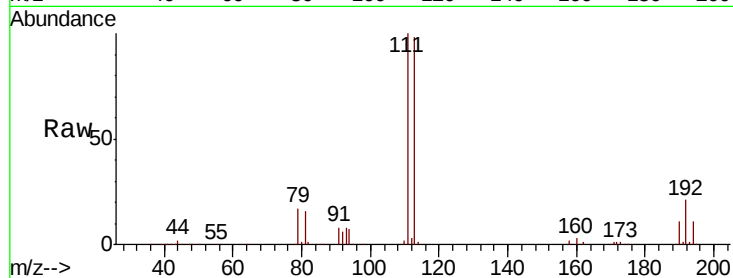




#35  
 Dibromofluoromethane  
 Concen: 52.53 ug/l  
 RT: 5.50 min Scan# 806  
 Delta R.T. -0.00 min  
 Lab File: VX004104.D  
 Acq: 16 Aug 2018 06:14

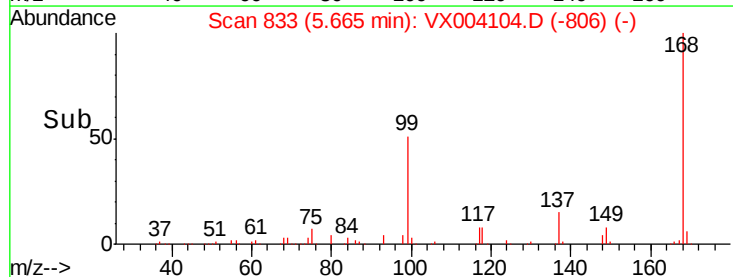
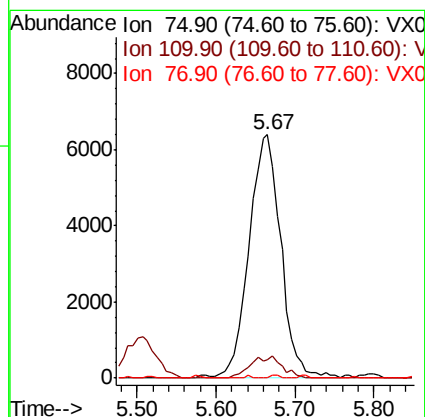
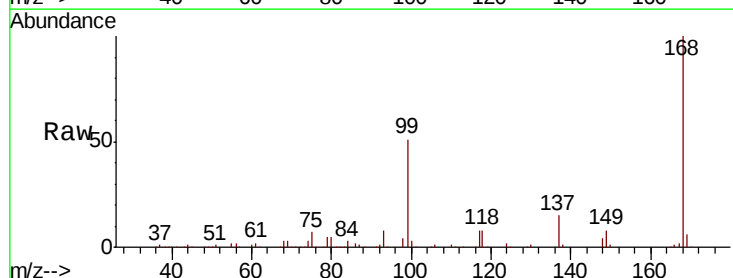
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS050MW636-180814DL

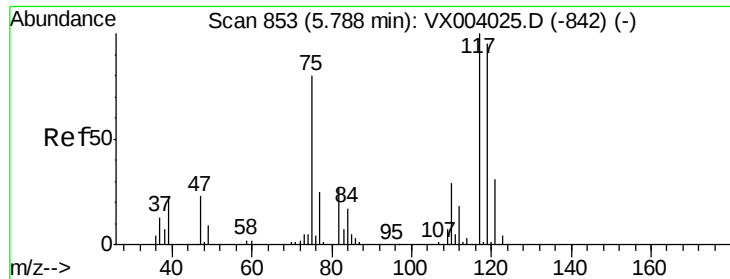
Tot Ion:113 Resp: 152699  
 Ion Ratio Lower Upper  
 113 100  
 111 101.5 82.0 123.0  
 192 22.6 19.0 28.4



#36  
 1,1-Dichloropropene  
 Concen: 4.07 ug/l  
 RT: 5.67 min Scan# 833  
 Delta R.T. -0.13 min  
 Lab File: VX004104.D  
 Acq: 16 Aug 2018 06:14

Tgt Ion: 75 Resp: 17968  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 18.2 54.6#  
 77 0.3 25.0 37.4#

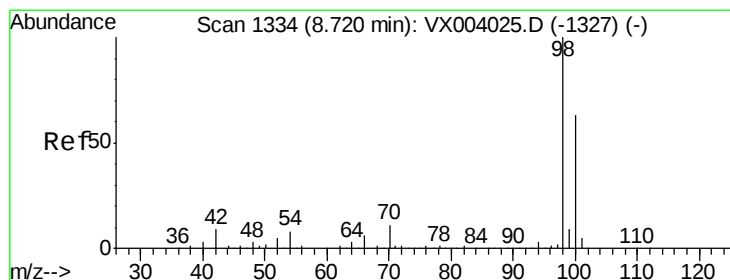
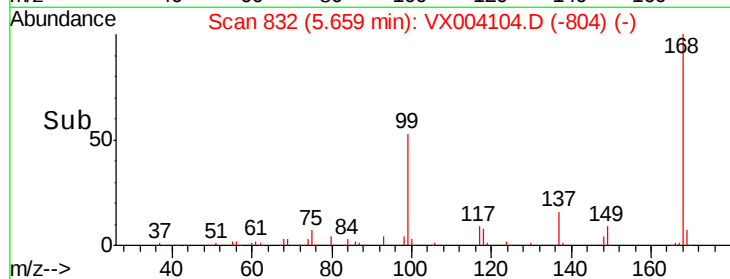
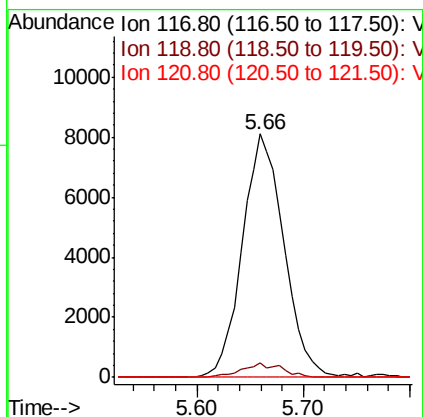
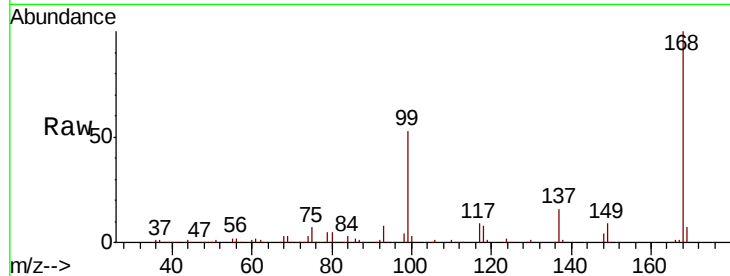




#38  
Carbon Tetrachloride  
Concen: 5.17 ug/l  
RT: 5.66 min Scan# 832  
Delta R.T. -0.13 min  
Lab File: VX004104.D  
Acq: 16 Aug 2018 06:14

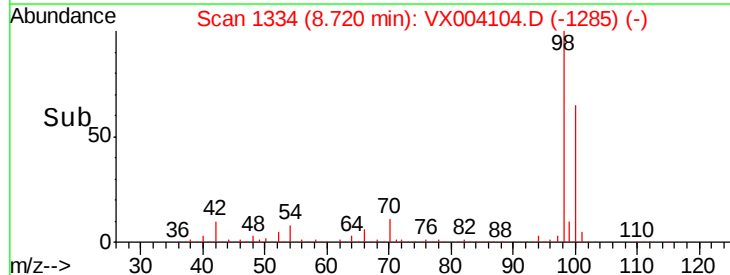
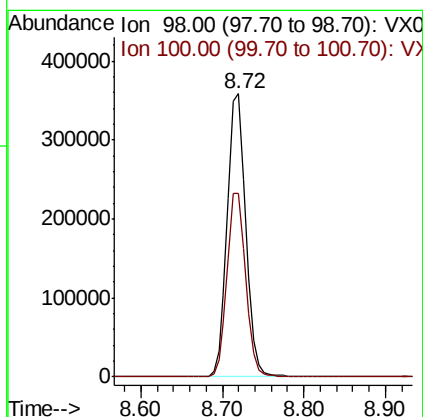
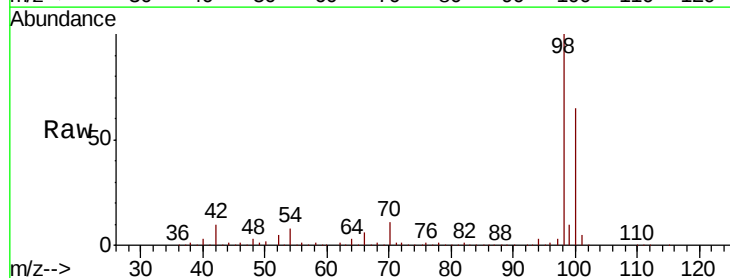
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS050MW636-180814DL

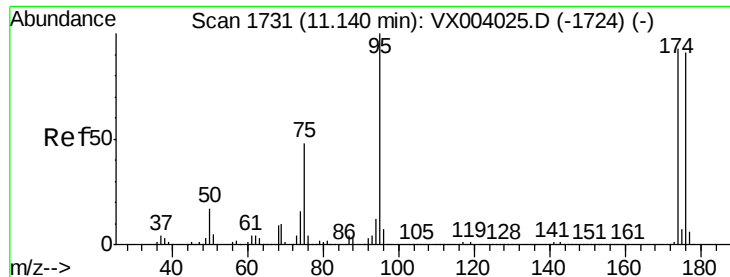
Tot Ion:117 Resp: 22182  
Ion Ratio Lower Upper  
117 100  
119 5.8 79.5 119.3#  
121 0.0 25.0 37.4#



#50  
Toluene-d8  
Concen: 47.77 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX004104.D  
Acq: 16 Aug 2018 06:14

Tgt Ion: 98 Resp: 562972  
Ion Ratio Lower Upper  
98 100  
100 65.3 53.3 79.9

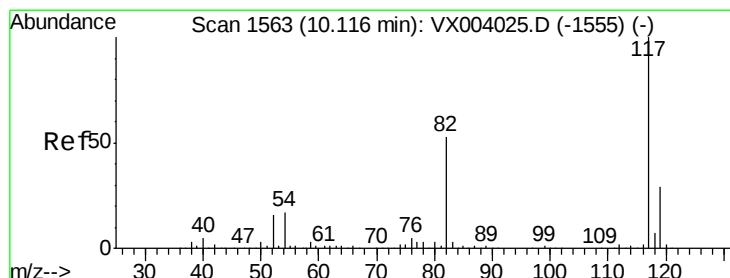
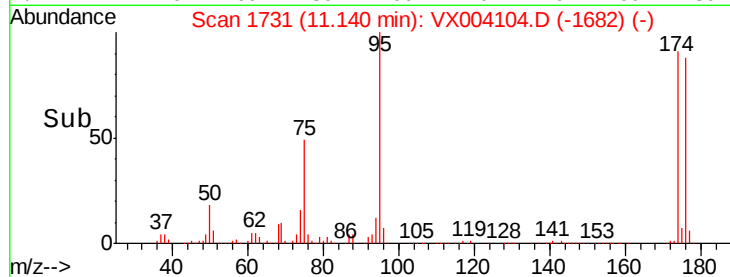
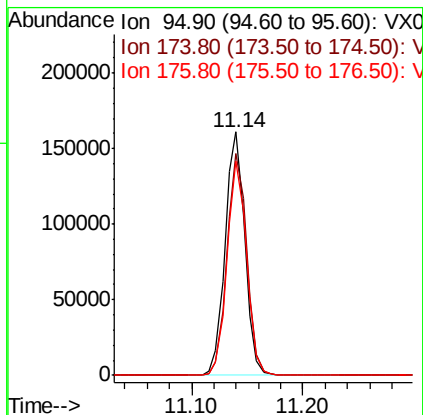
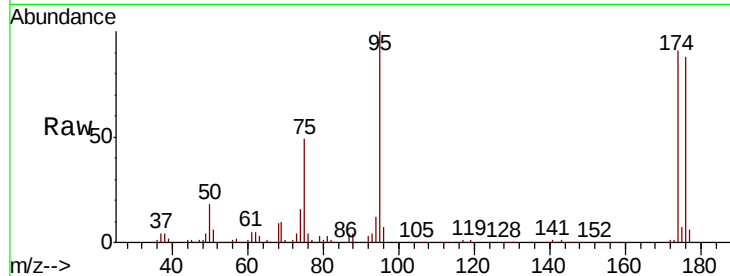




#62  
 4-Bromofluorobenzene  
 Concen: 46.07 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.00 min  
 Lab File: VX004104.D  
 Acq: 16 Aug 2018 06:14

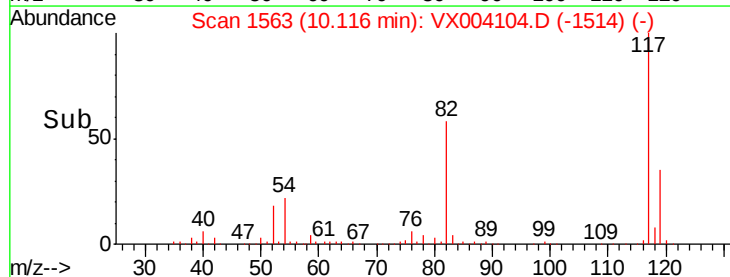
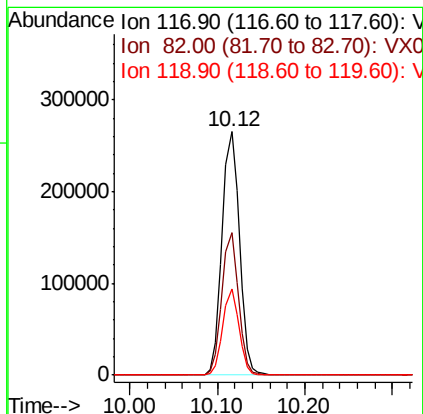
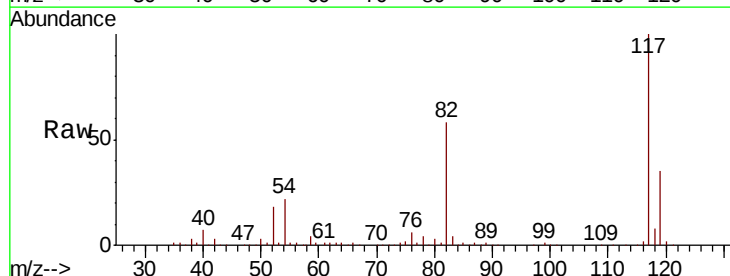
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS050MW636-180814DL

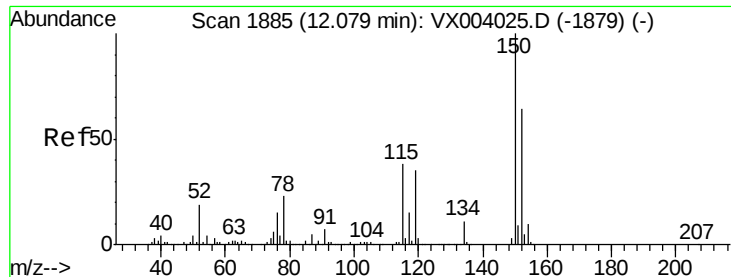
Tot Ion: 95 Resp: 196934  
 Ion Ratio Lower Upper  
 95 100  
 174 91.9 0.0 182.8  
 176 87.1 0.0 179.0



#63  
 Chlorobenzene-d5  
 Concen: 50.00 ug/l  
 RT: 10.12 min Scan# 1563  
 Delta R.T. -0.00 min  
 Lab File: VX004104.D  
 Acq: 16 Aug 2018 06:14

Tgt Ion: 117 Resp: 365731  
 Ion Ratio Lower Upper  
 117 100  
 82 58.4 45.4 68.0  
 119 35.3 26.6 40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004104.D

Acq: 16 Aug 2018 06:14

Instrument :

MSVOA\_X

ClientSampleId :

SS050MW636-180814DL

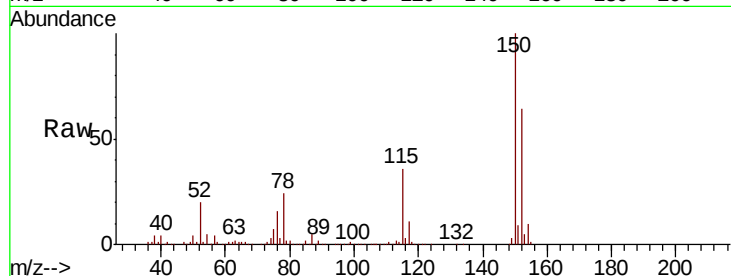
Tot Ion:152 Resp: 215054

Ion Ratio Lower Upper

152 100

115 54.4 39.1 117.3

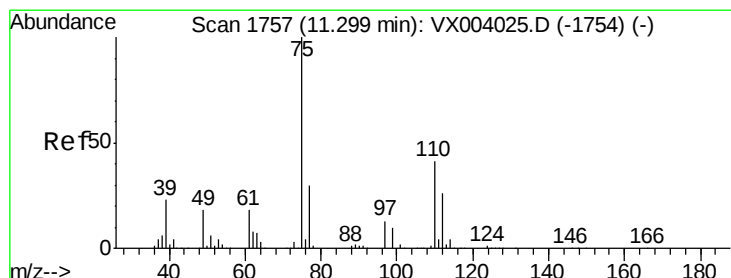
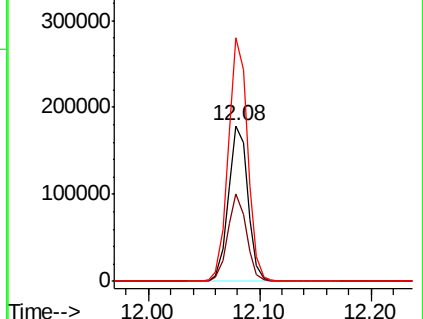
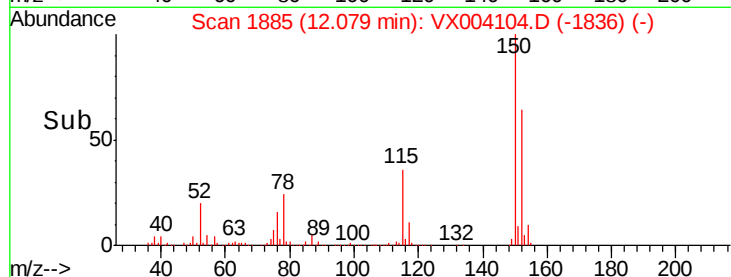
150 155.6 0.0 349.2



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: 22.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004104.D

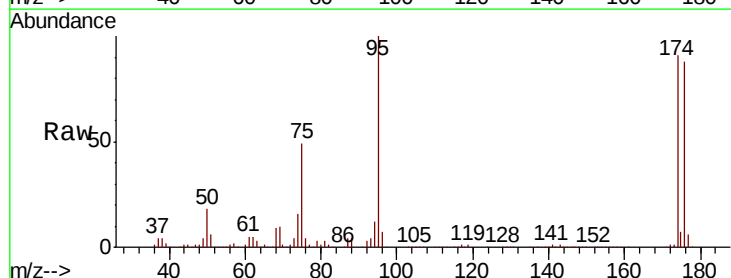
Acq: 16 Aug 2018 06:14

Tgt Ion: 75 Resp: 97490

Ion Ratio Lower Upper

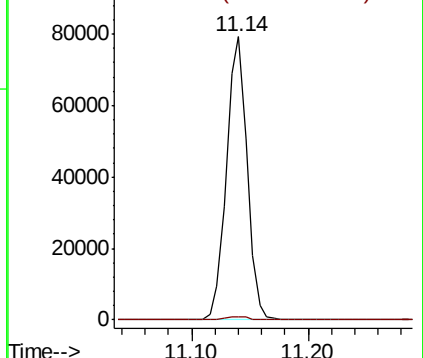
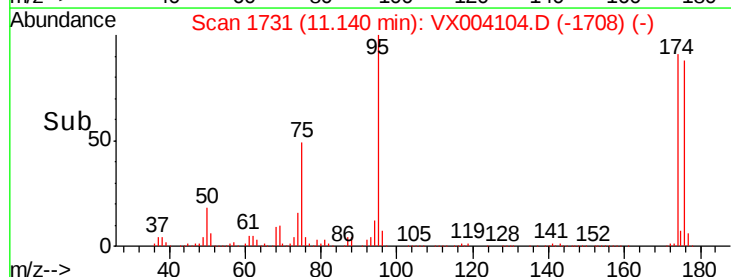
75 100

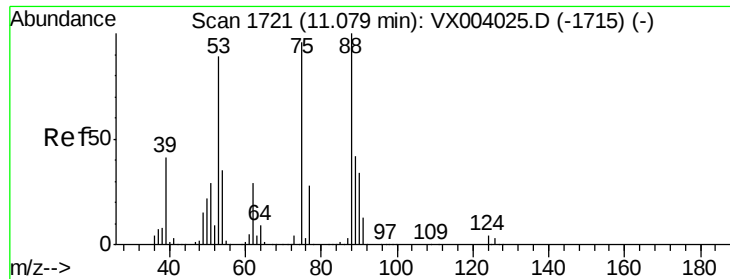
77 1.4 20.8 62.5#



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: 69.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004104.D

Acq: 16 Aug 2018 06:14

Instrument :

MSVOA\_X

ClientSampleId :

SS050MW636-180814DL

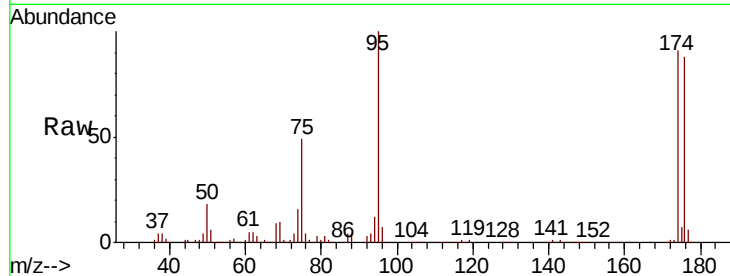
Tot Ion: 75 Resp: 97490

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

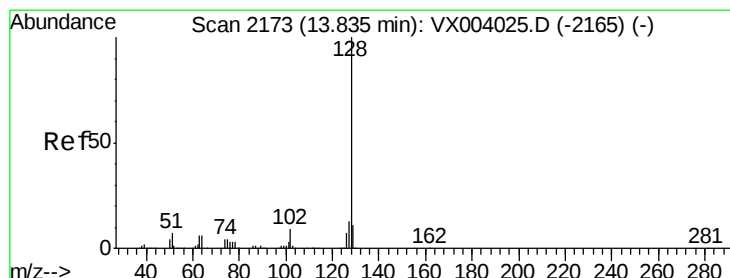
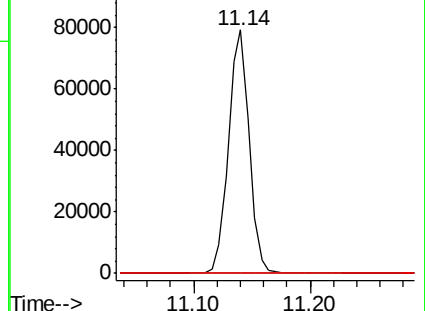
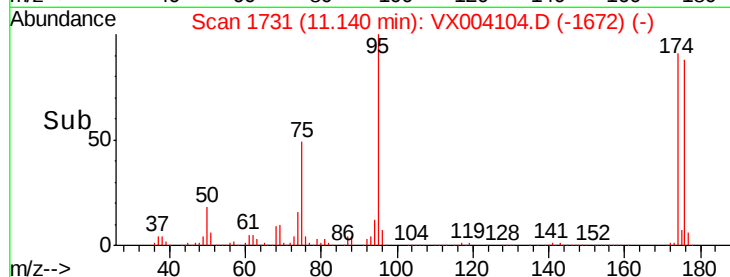
89 0.0 37.8 56.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 1.16 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

Lab File: VX004104.D

Acq: 16 Aug 2018 06:14

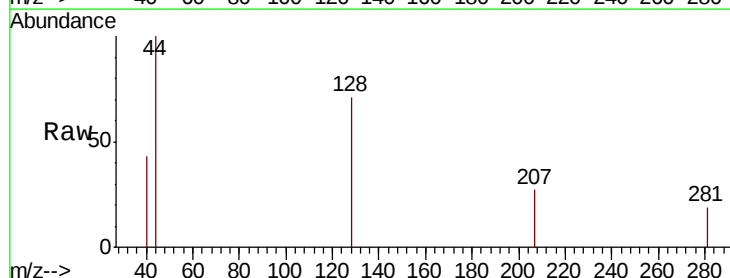
Tgt Ion: 128 Resp: 267

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

