

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX062718\  
 Data File : VX002963.D  
 Acq On : 28 Jun 2018 03:59  
 Operator : JC/MD  
 Sample : J3718-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-27

Quant Time: Jul 09 07:54:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 2018  
 Response via : Initial Calibration

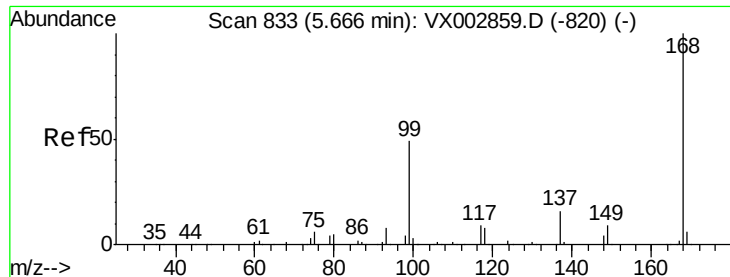
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 271042   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 380761   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 355909   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 204692   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 184373   | 49.21 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.42% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 147563   | 48.94 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.88% |      |
| 50) Toluene-d8              | 8.72   | 98  | 533560   | 48.46 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.92% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 192816   | 45.41 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.82% |      |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.21  | 85   | 50       | Below Cal | #      | 43     |
| 3) Chloromethane               | 1.32  | 50   | 44439    | 16.896    | ug/l # | 45     |
| 5) Bromomethane                | 1.65  | 94   | 1425     | Below Cal |        | 87     |
| 6) Chloroethane                | 1.93  | 64   | 1610     | Below Cal | #      | 43     |
| 10) Methyl Iodide              | 2.52  | 142  | 2512     | 6.950     | ug/l   | 98     |
| 11) Tert butyl alcohol         | 3.07  | 59   | 835      | 1.119     | ug/l # | 78     |
| 13) Acrolein                   | 2.30  | 56   | 138      | 4.557     | ug/l # | 1      |
| 16) Acetone                    | 2.45  | 43   | 2570     | 1.656     | ug/l   | 94     |
| 17) Carbon Disulfide           | 2.57  | 76   | 5889     | 0.827     | ug/l # | 94     |
| 19) Methyl tert-butyl Ether    | 3.20  | 73   | 2185     | 0.227     | ug/l # | 88     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 18200    | 4.359     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 24822    | 5.417     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 2272     | 0.482     | ug/l   | 91     |
| 65) Chlorobenzene              | 10.14 | 112  | 13404    | 1.483     | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 99795    | 26.915    | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 99795    | 76.204    | ug/l # | 7      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 3667     | 0.498     | ug/l # | 60     |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA\_X

ClientSampled :

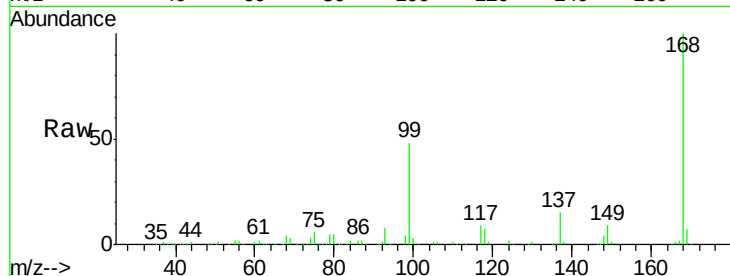
W-27

Tgt Ion:168 Resp: 271042

Ion Ratio Lower Upper

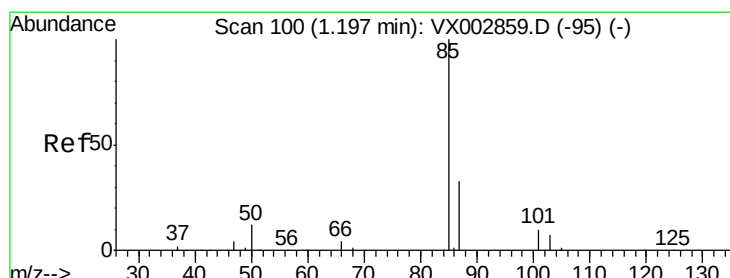
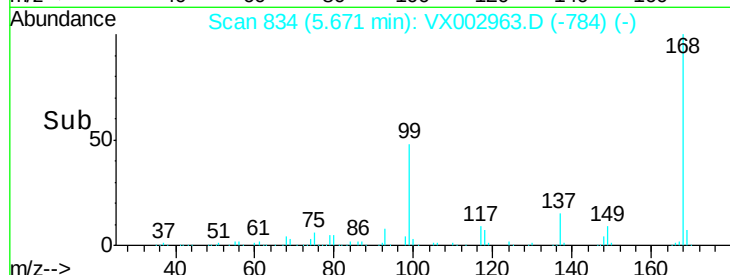
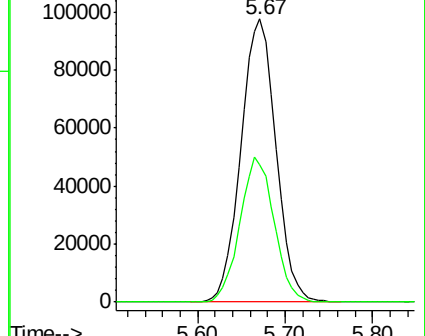
168 100

99 48.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.21 min Scan# 102

Delta R.T. 0.01 min

Lab File: VX002963.D

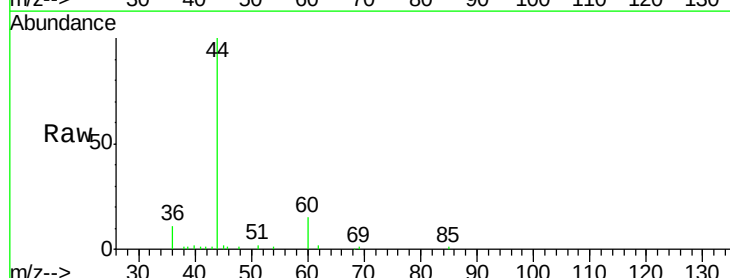
Acq: 28 Jun 2018 03:59

Tgt Ion: 85 Resp: 50

Ion Ratio Lower Upper

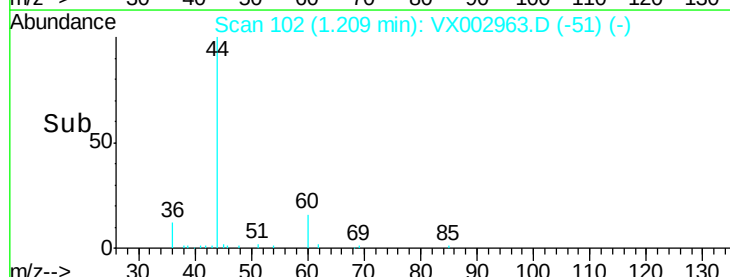
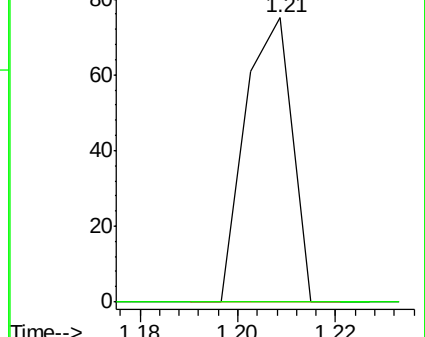
85 100

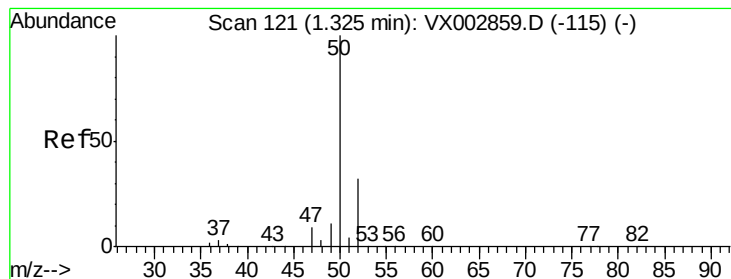
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 16.896 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA\_X

ClientSampleId :

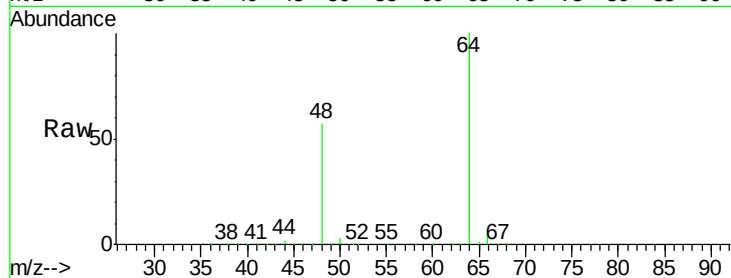
W-27

Tgt Ion: 50 Resp: 44439

Ion Ratio Lower Upper

50 100

52 1.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

12000

10000

8000

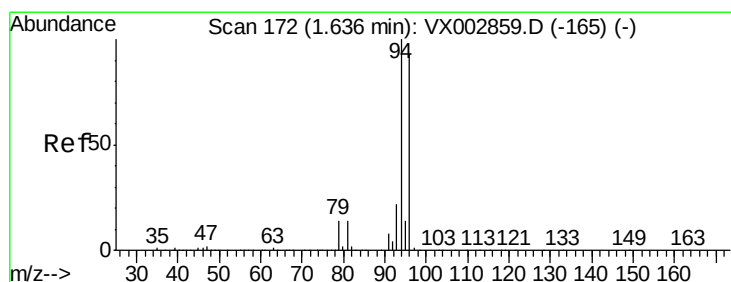
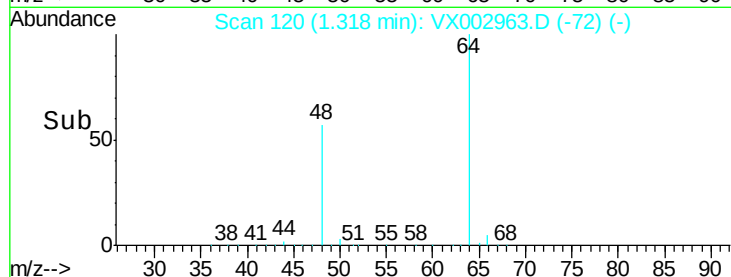
6000

4000

2000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002963.D

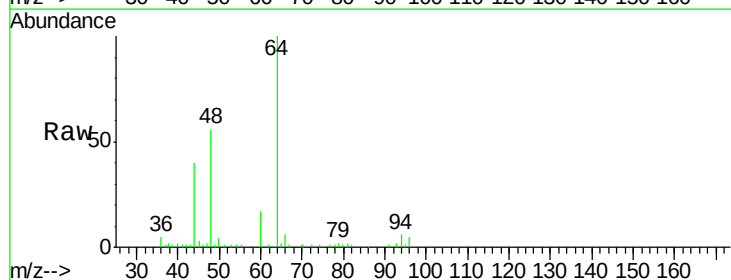
Acq: 28 Jun 2018 03:59

Tgt Ion: 94 Resp: 1425

Ion Ratio Lower Upper

94 100

96 81.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

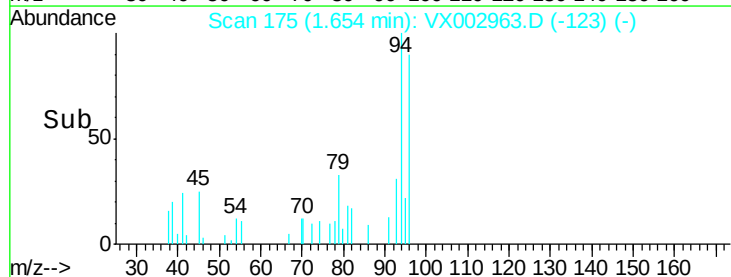
600

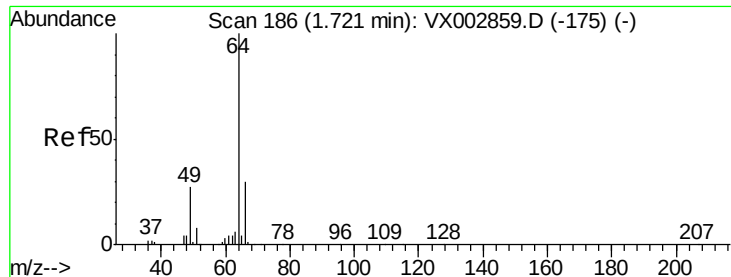
400

200

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.93 min Scan# 221

Delta R.T. 0.21 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA\_X

ClientSampleId :

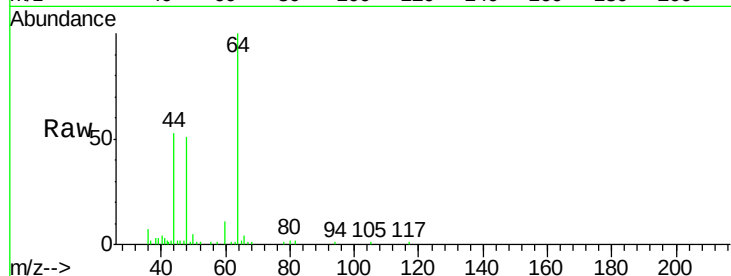
W-27

Tgt Ion: 64 Resp: 1610

Ion Ratio Lower Upper

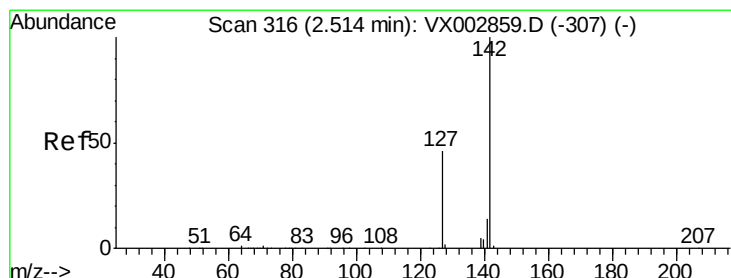
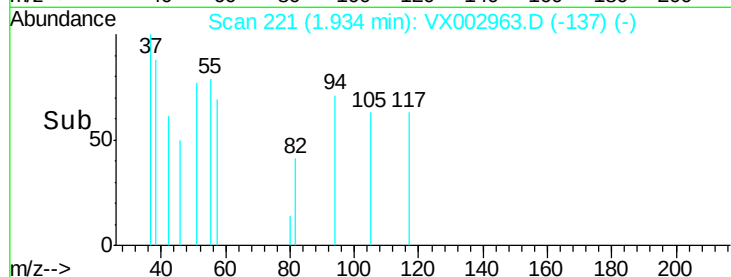
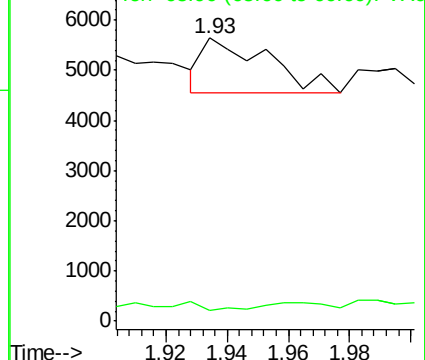
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 6.950 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

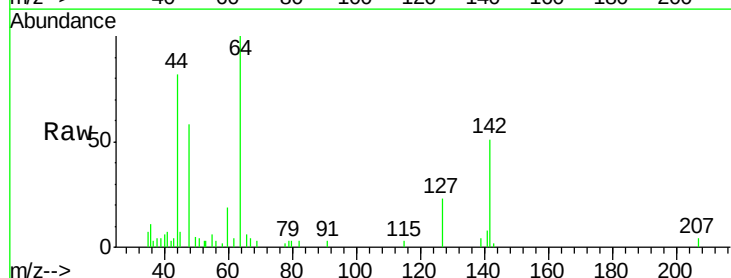
Tgt Ion: 142 Resp: 2512

Ion Ratio Lower Upper

142 100

127 45.9 36.6 55.0

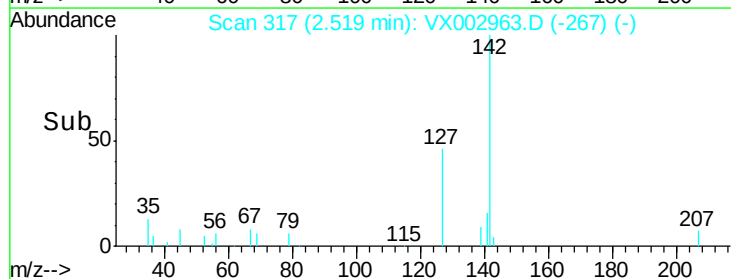
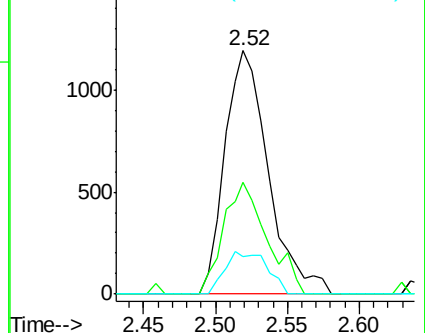
141 16.8 11.3 16.9

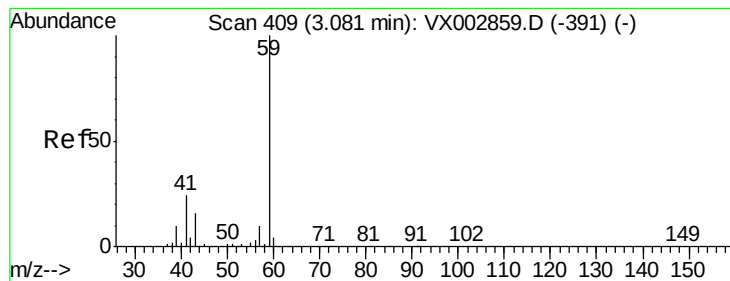


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



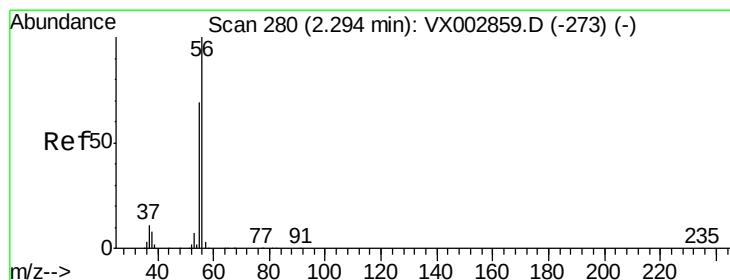
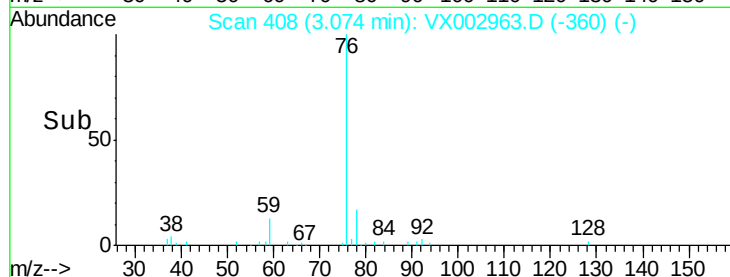
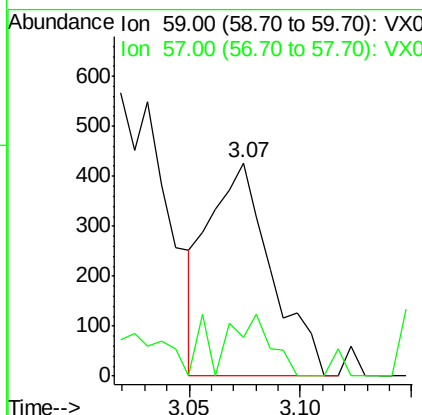
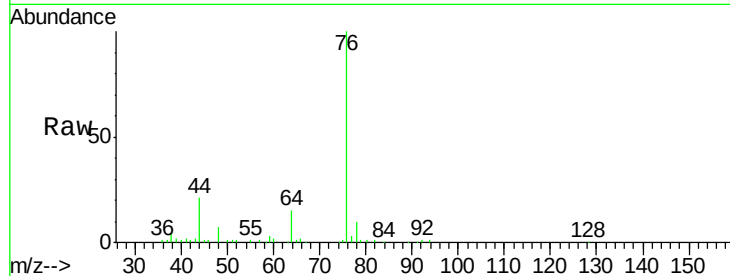


#11

Tert butyl alcohol  
 Concen: 1.119 ug/l  
 RT: 3.07 min Scan# 408  
 Delta R.T. -0.01 min  
 Lab File: VX002963.D  
 Acq: 28 Jun 2018 03:59

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 W-27

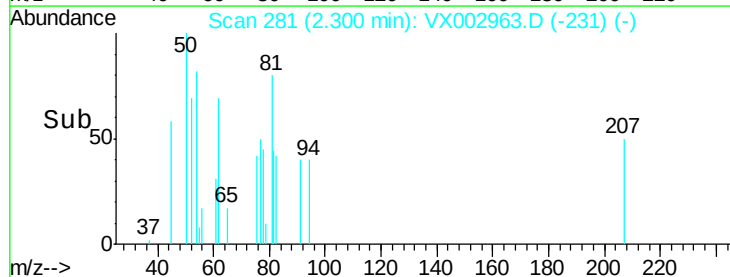
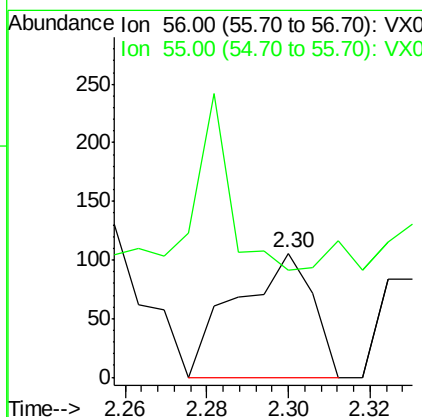
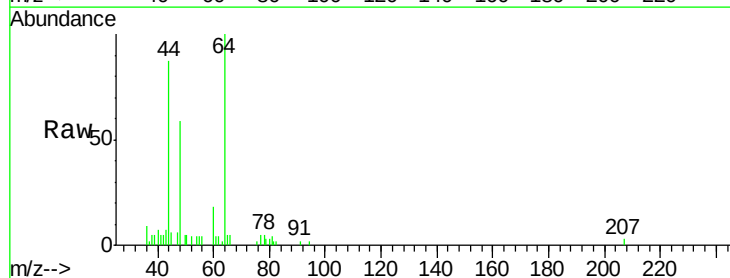
Tgt Ion: 59 Resp: 835  
 Ion Ratio Lower Upper  
 59 100  
 57 18.3 8.2 12.2#

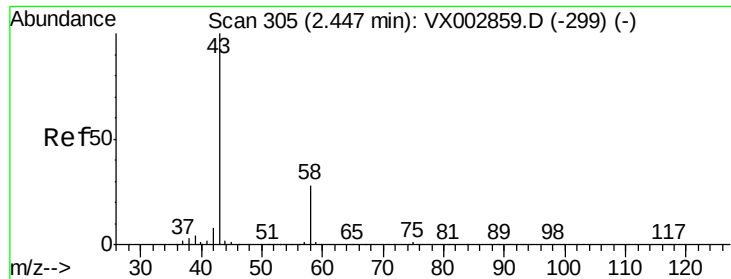


#13

Acrolein  
 Concen: 4.557 ug/l  
 RT: 2.30 min Scan# 281  
 Delta R.T. 0.01 min  
 Lab File: VX002963.D  
 Acq: 28 Jun 2018 03:59

Tgt Ion: 56 Resp: 138  
 Ion Ratio Lower Upper  
 56 100  
 55 261.6 57.0 85.4#





#16

Acetone

Concen: 1.656 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA\_X

ClientSampleId :

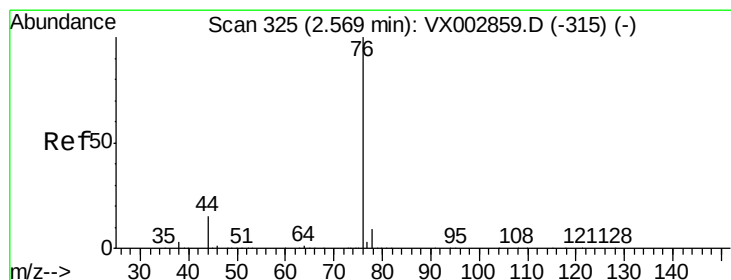
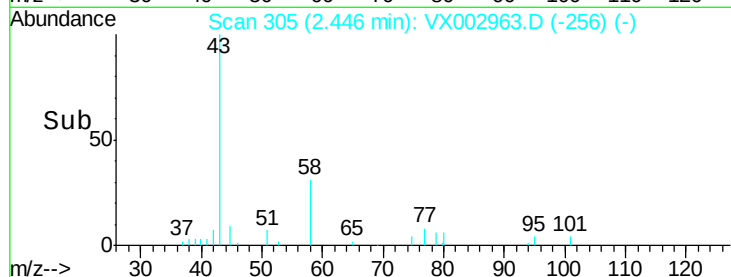
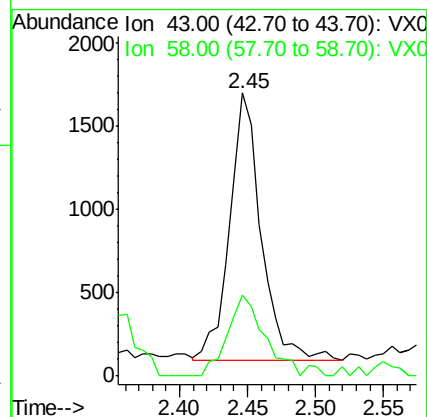
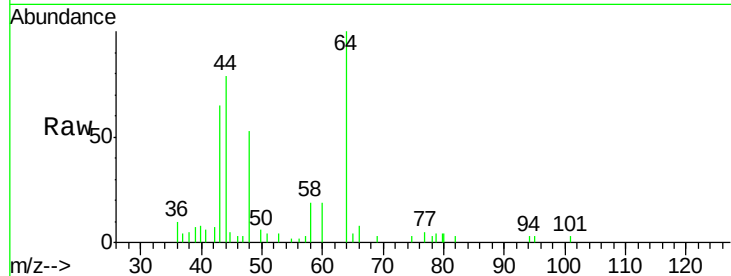
W-27

Tgt Ion: 43 Resp: 2570

Ion Ratio Lower Upper

43 100

58 30.6 22.1 33.1



#17

Carbon Disulfide

Concen: 0.827 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002963.D

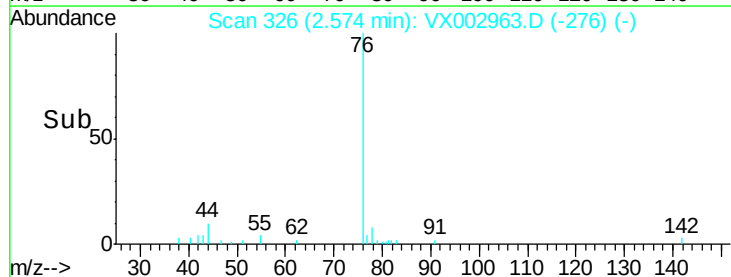
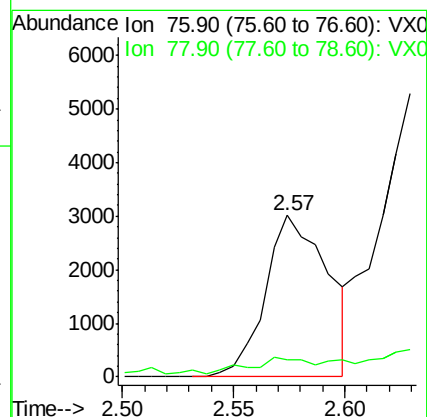
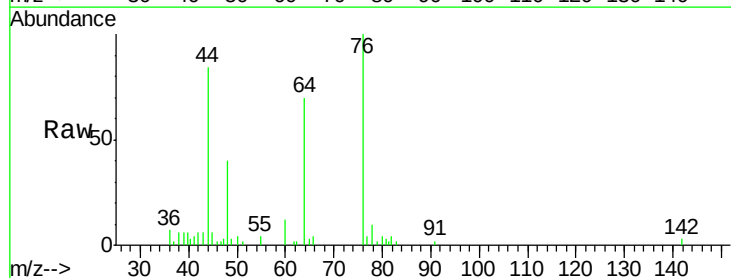
Acq: 28 Jun 2018 03:59

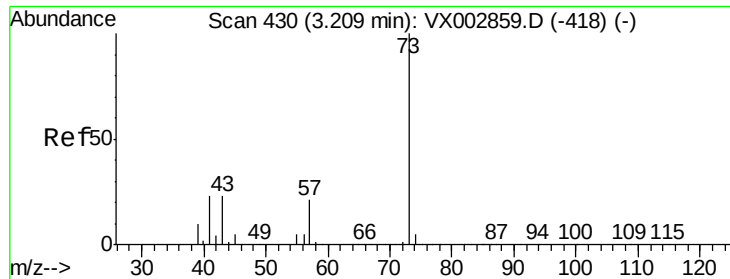
Tgt Ion: 76 Resp: 5889

Ion Ratio Lower Upper

76 100

78 6.4 6.9 10.3#

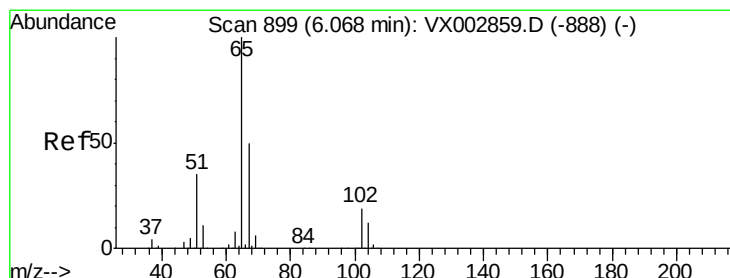
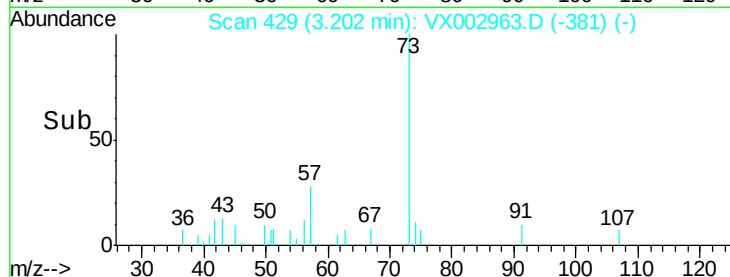
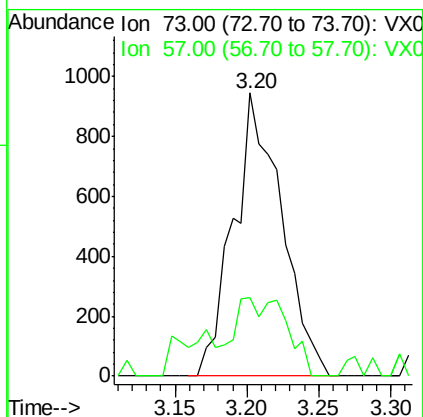
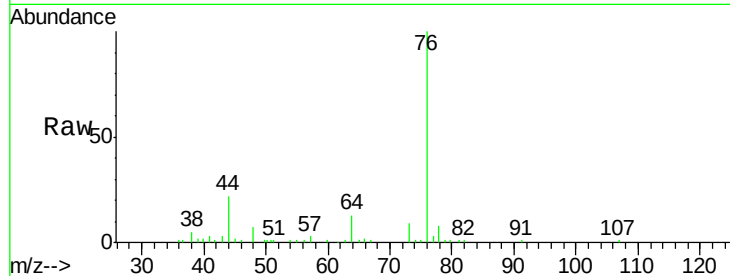




#19  
Methyl tert-butyl Ether  
Concen: 0.227 ug/l  
RT: 3.20 min Scan# 429  
Delta R.T. -0.01 min  
Lab File: VX002963.D  
Acq: 28 Jun 2018 03:59

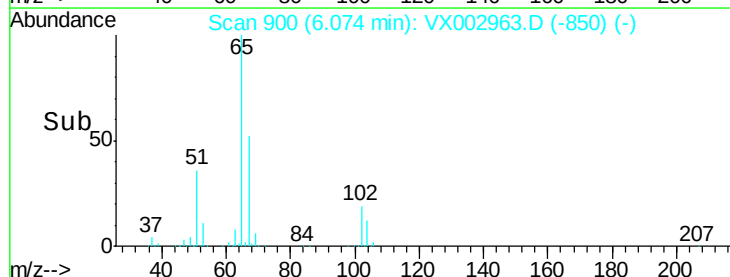
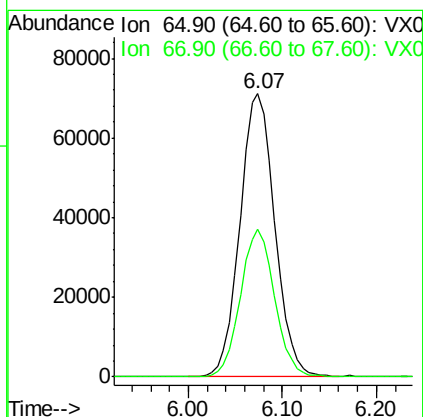
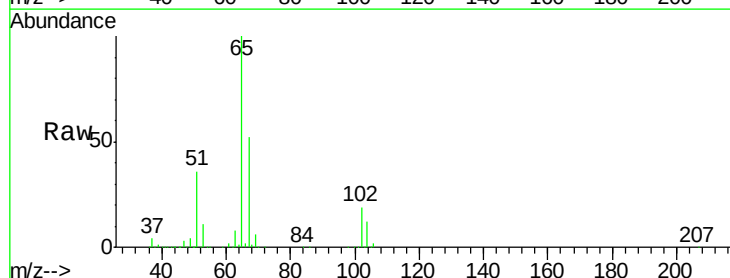
Instrument :  
MSVOA\_X  
ClientSampled :  
W-27

Tgt Ion: 73 Resp: 2185  
Ion Ratio Lower Upper  
73 100  
57 27.7 17.7 26.5#

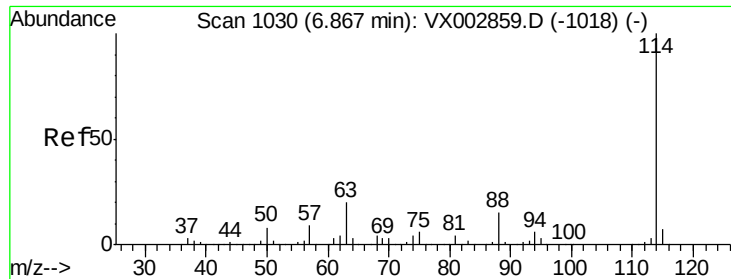


#33  
1,2-Dichloroethane-d4  
Concen: 49.214 ug/l  
RT: 6.07 min Scan# 900  
Delta R.T. 0.01 min  
Lab File: VX002963.D  
Acq: 28 Jun 2018 03:59

Tgt Ion: 65 Resp: 184373  
Ion Ratio Lower Upper  
65 100  
67 51.2 0.0 102.6



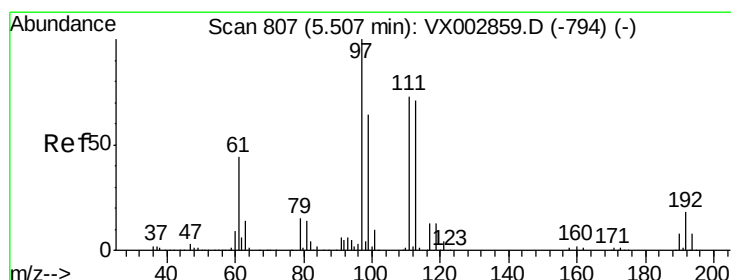
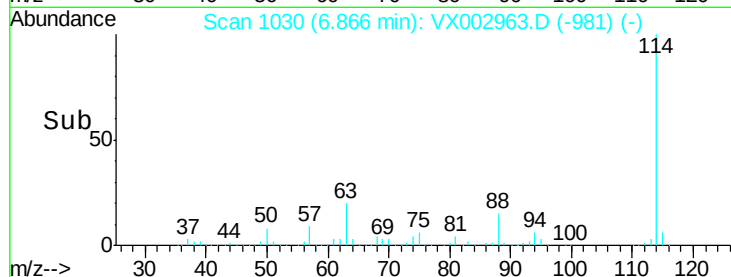
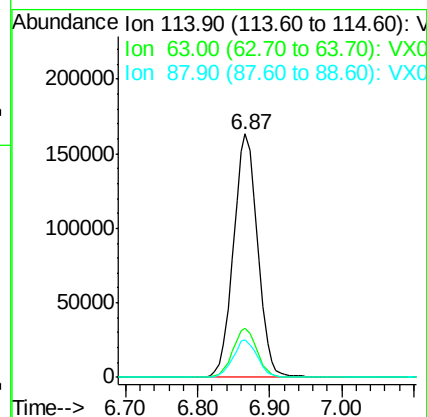
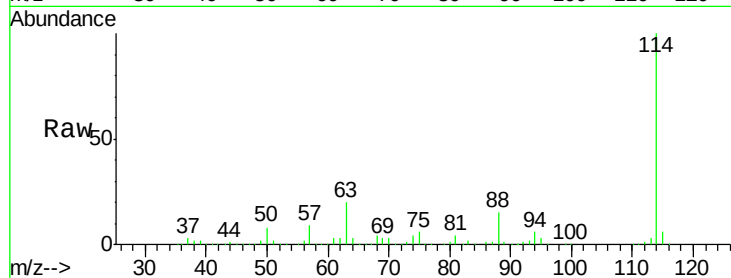




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VX002963.D  
 Acq: 28 Jun 2018 03:59

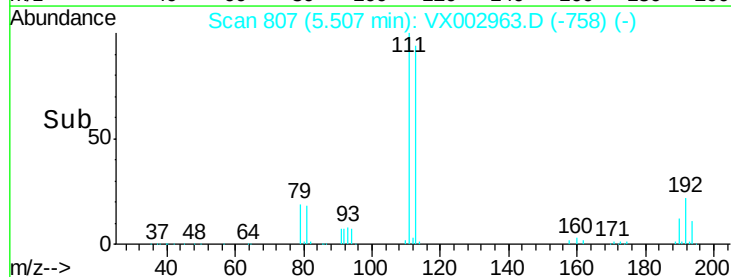
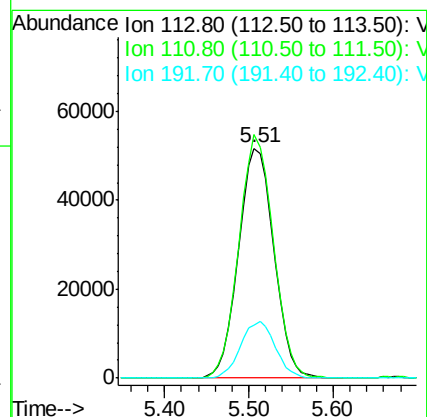
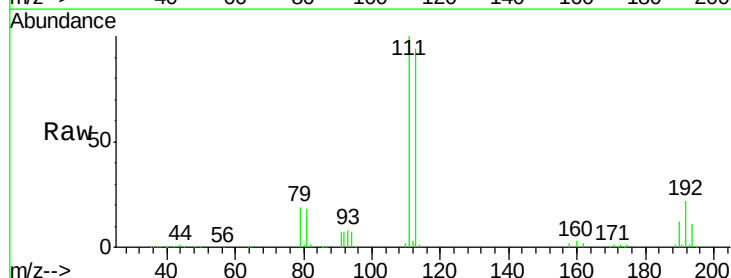
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 W-27

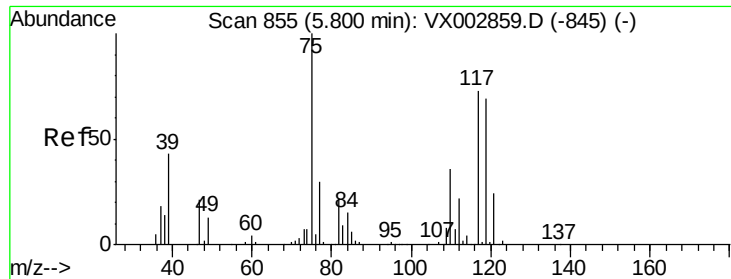
Tgt Ion:114 Resp: 380761  
 Ion Ratio Lower Upper  
 114 100  
 63 20.4 0.0 41.4  
 88 15.3 0.0 30.0



#35  
 Dibromofluoromethane  
 Concen: 48.938 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. -0.00 min  
 Lab File: VX002963.D  
 Acq: 28 Jun 2018 03:59

Tgt Ion:113 Resp: 147563  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 81.4 122.0  
 192 24.2 19.1 28.7

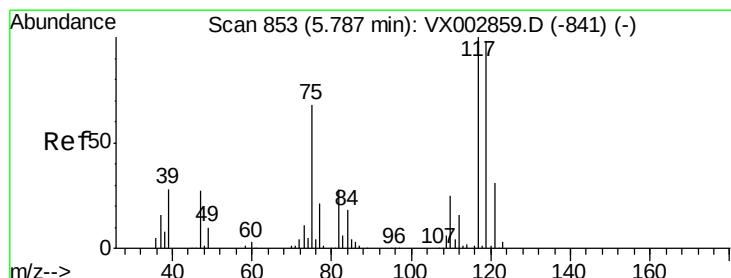
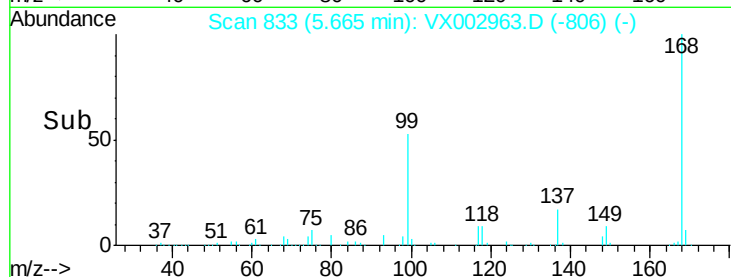
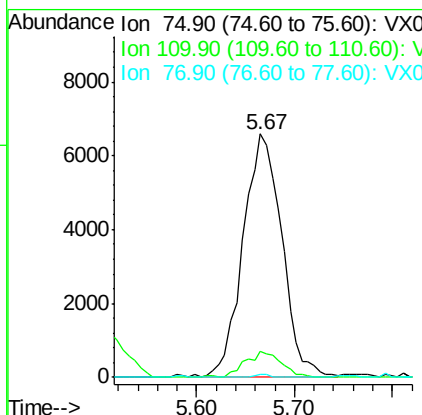
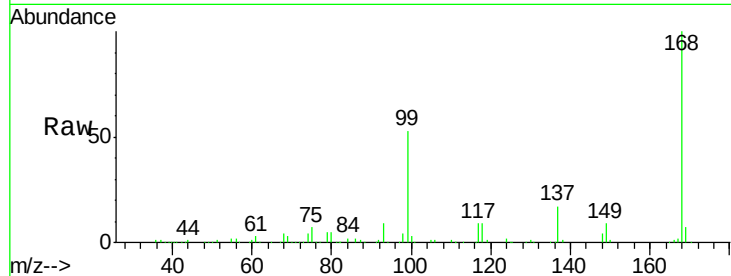




#36  
 1,1-Dichloropropene  
 Concen: 4.359 ug/l  
 RT: 5.67 min Scan# 833  
 Delta R.T. -0.13 min  
 Lab File: VX002963.D  
 Acq: 28 Jun 2018 03:59

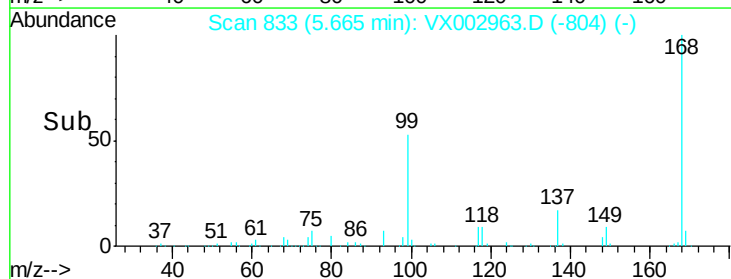
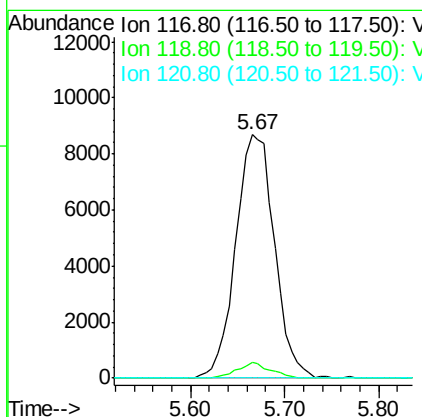
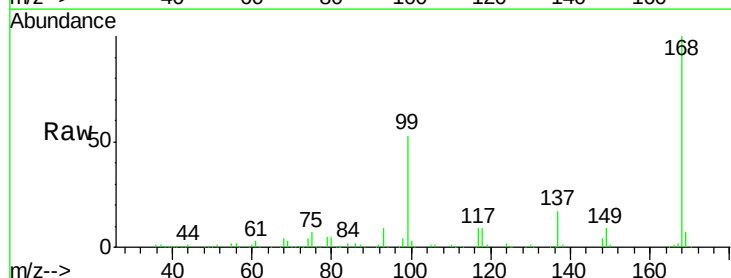
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-27

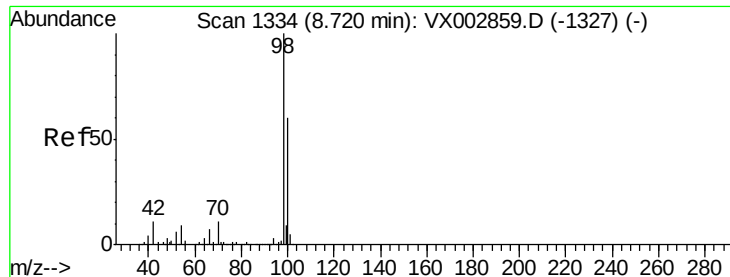
Tgt Ion: 75 Resp: 18200  
 Ion Ratio Lower Upper  
 75 100  
 110 9.9 18.1 54.4#  
 77 0.5 24.3 36.5#



#38  
 Carbon Tetrachloride  
 Concen: 5.417 ug/l  
 RT: 5.67 min Scan# 833  
 Delta R.T. -0.12 min  
 Lab File: VX002963.D  
 Acq: 28 Jun 2018 03:59

Tgt Ion: 117 Resp: 24822  
 Ion Ratio Lower Upper  
 117 100  
 119 6.2 77.4 116.0#  
 121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 48.457 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA\_X

ClientSampleId :

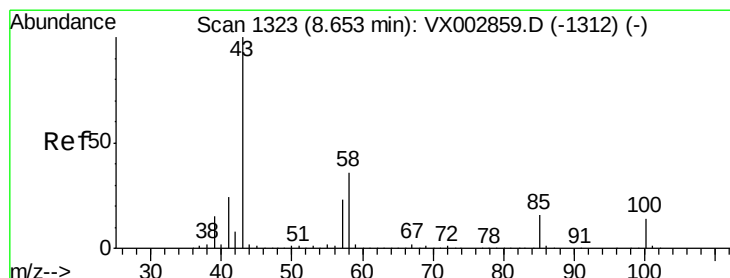
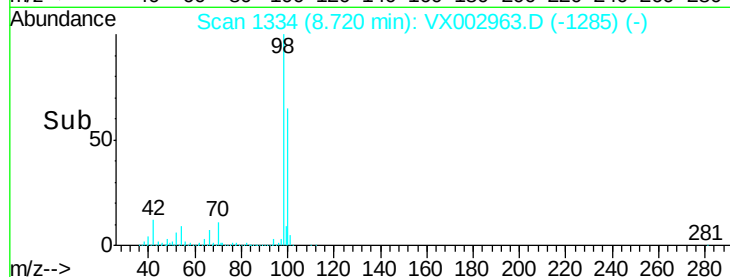
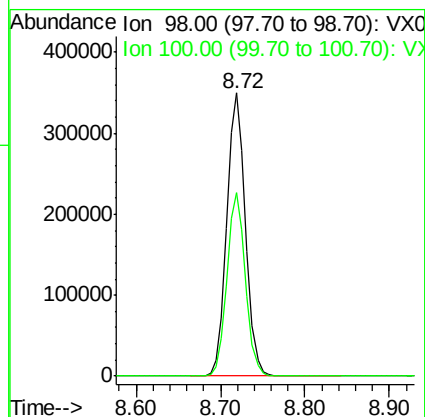
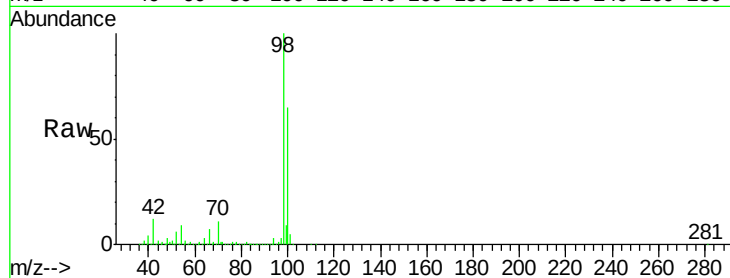
W-27

Tgt Ion: 98 Resp: 533560

Ion Ratio Lower Upper

98 100

100 63.9 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 0.482 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002963.D

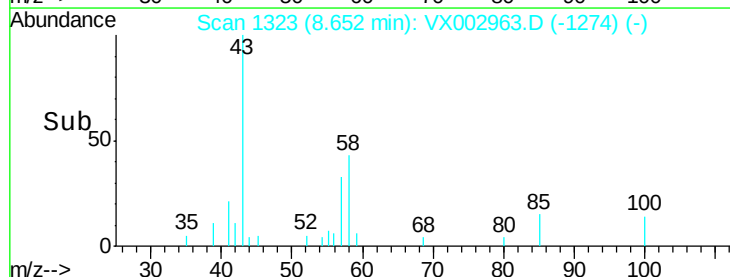
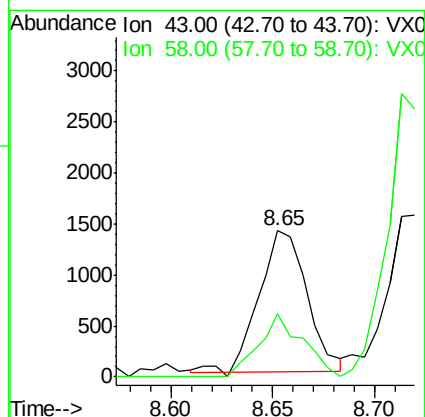
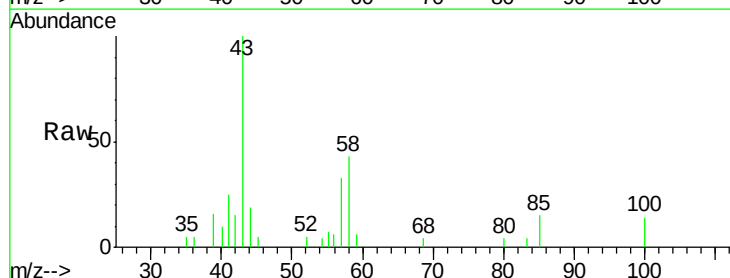
Acq: 28 Jun 2018 03:59

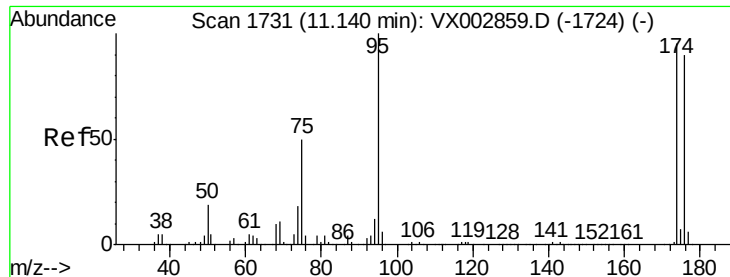
Tgt Ion: 43 Resp: 2272

Ion Ratio Lower Upper

43 100

58 40.9 28.6 42.8

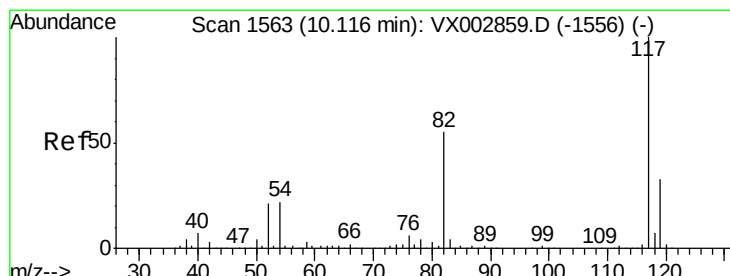
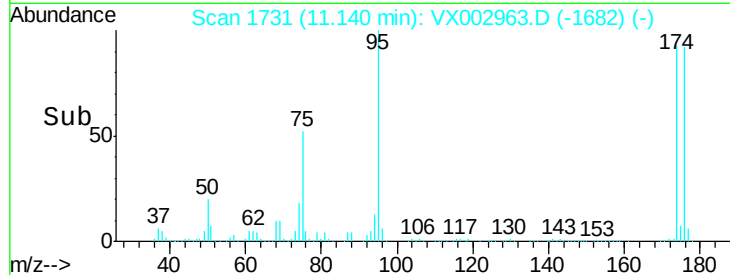
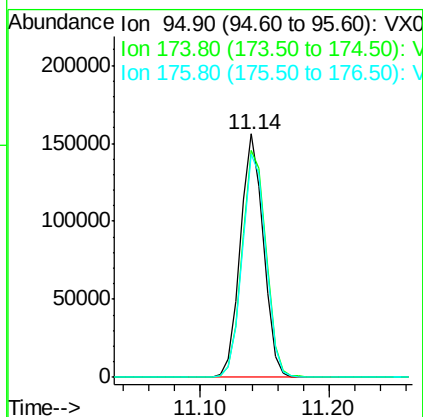
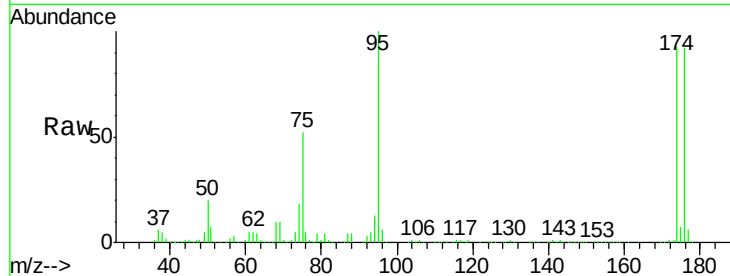




#62  
4-Bromofluorobenzene  
Concen: 45.406 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.00 min  
Lab File: VX002963.D  
Acq: 28 Jun 2018 03:59

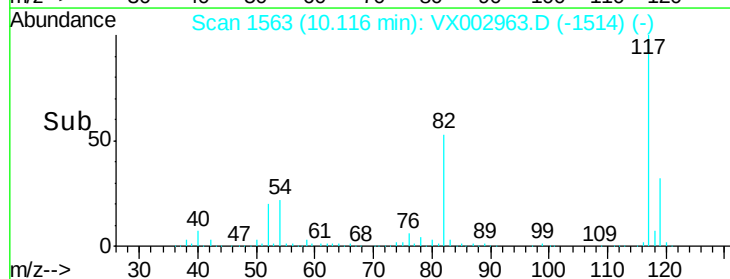
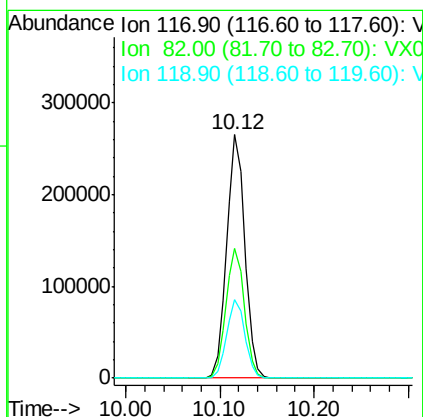
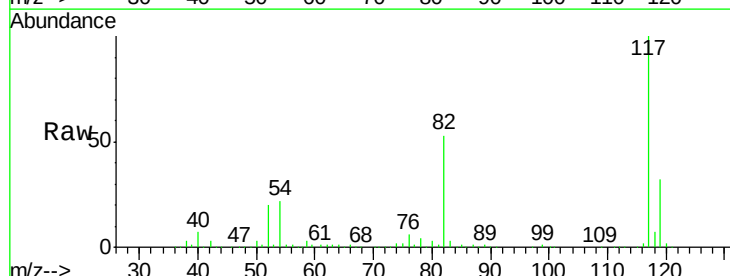
Instrument :  
MSVOA\_X  
ClientSampled :  
W-27

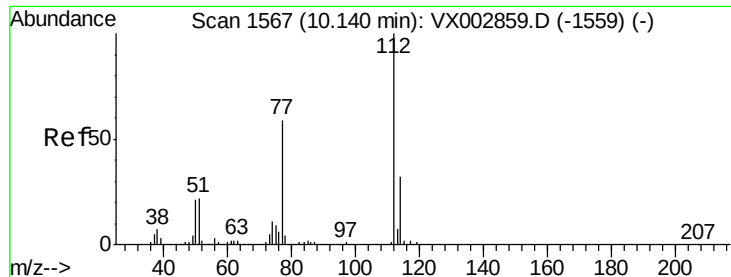
Tgt Ion: 95 Resp: 192816  
Ion Ratio Lower Upper  
95 100  
174 96.7 0.0 187.4  
176 93.9 0.0 181.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX002963.D  
Acq: 28 Jun 2018 03:59

Tgt Ion: 117 Resp: 355909  
Ion Ratio Lower Upper  
117 100  
82 53.3 45.0 67.4  
119 32.3 25.8 38.6





#65

Chlorobenzene

Concen: 1.483 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA\_X

ClientSampled :

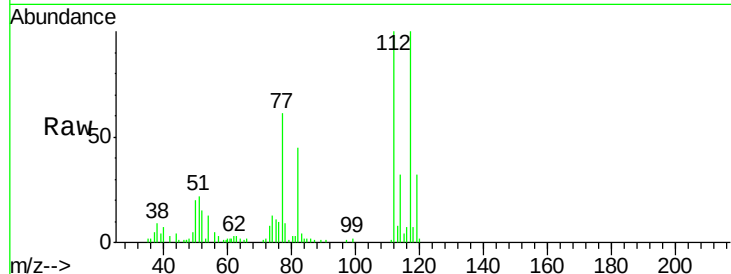
W-27

Tgt Ion:112 Resp: 13404

Ion Ratio Lower Upper

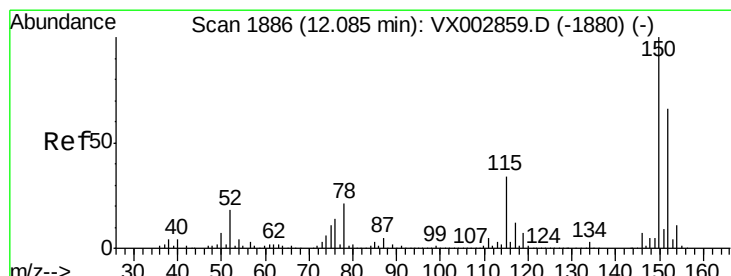
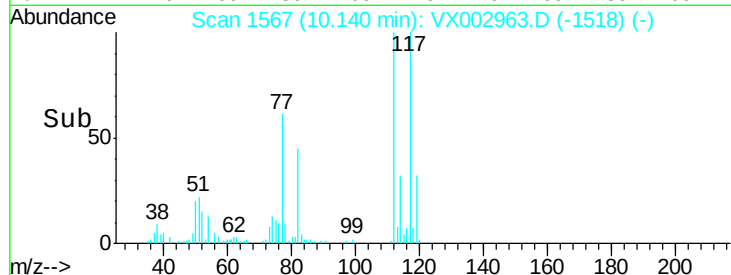
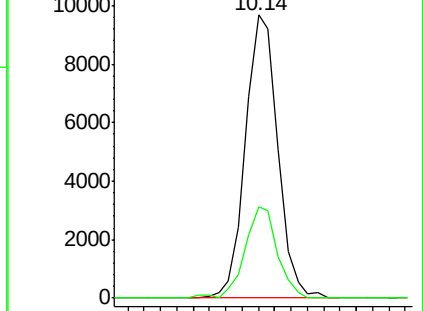
112 100

114 32.2 25.3 37.9



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: 50.000 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

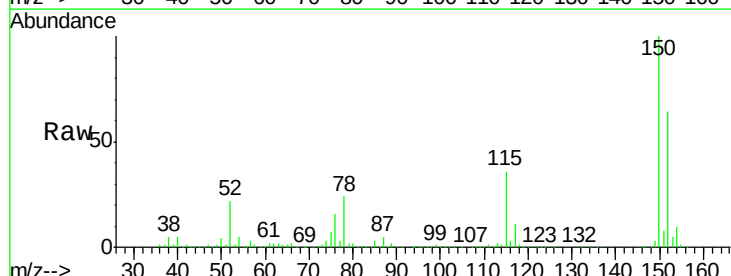
Tgt Ion:152 Resp: 204692

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

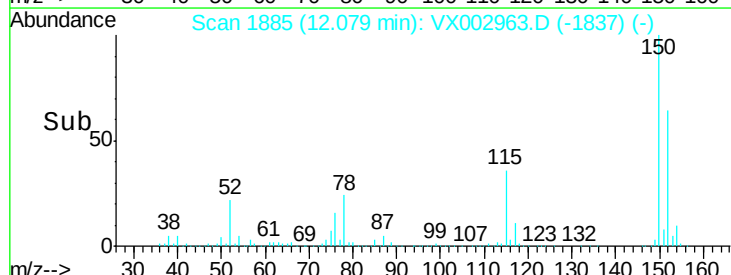
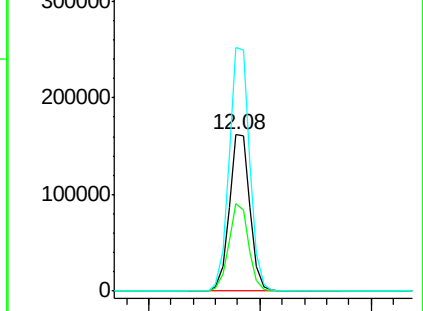
150 155.9 0.0 347.2

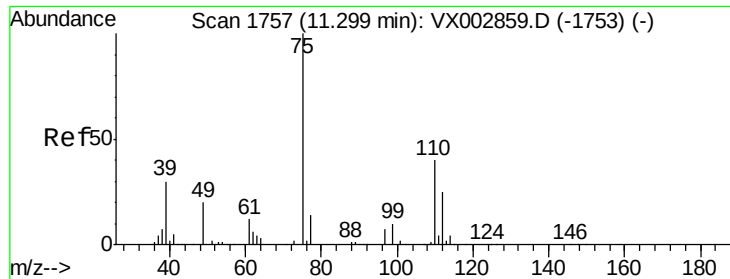


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

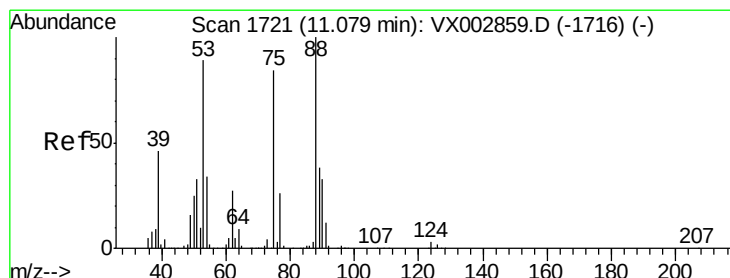
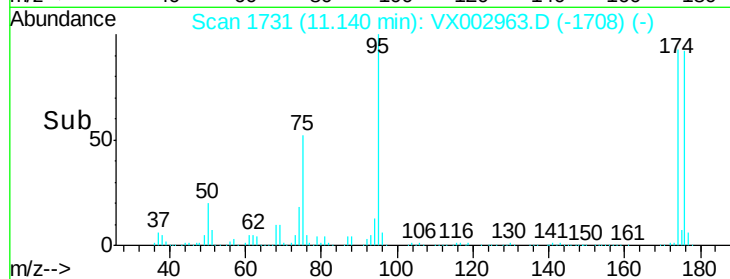
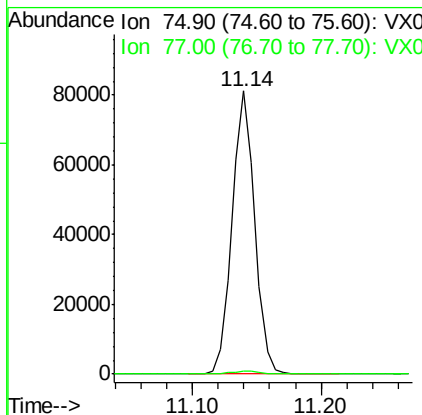
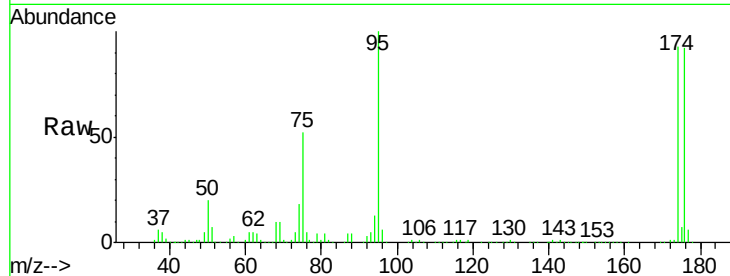




#76  
 1,2,3-Trichloropropane  
 Concen: 26.915 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX002963.D  
 Acq: 28 Jun 2018 03:59

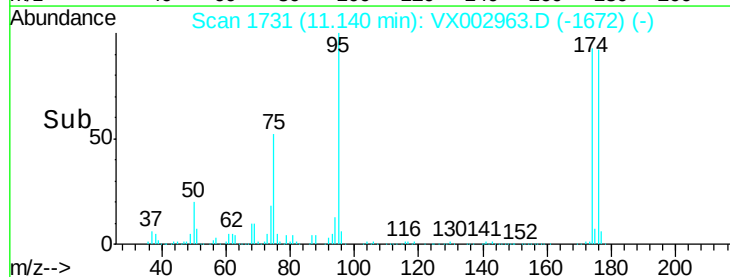
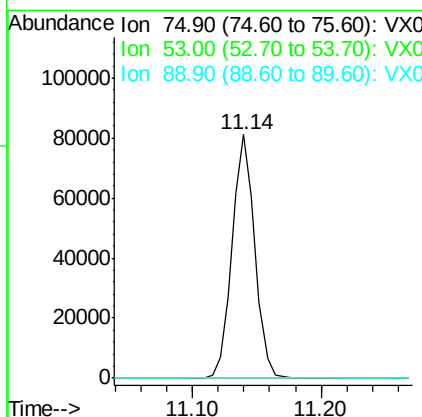
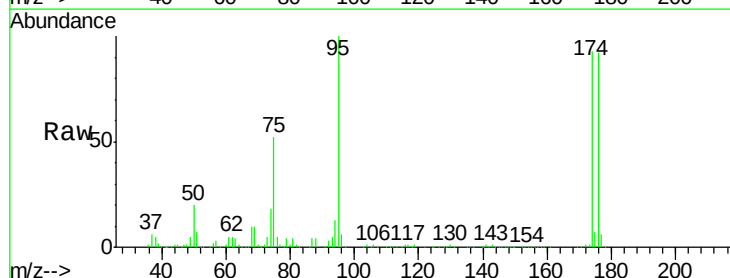
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 W-27

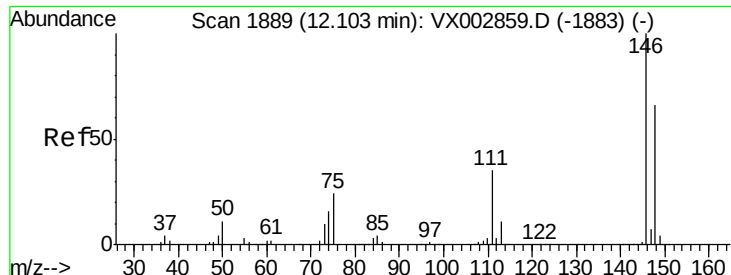
Tgt Ion: 75 Resp: 99795  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 22.8 68.3#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 76.204 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX002963.D  
 Acq: 28 Jun 2018 03:59

Tgt Ion: 75 Resp: 99795  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 86.8 130.2#  
 89 0.0 38.2 57.2#





#88

1,4-Dichlorobenzene

Concen: 0.498 ug/l

RT: 12.10 min Scan# 1888

Delta R.T. -0.01 min

Lab File: VX002963.D

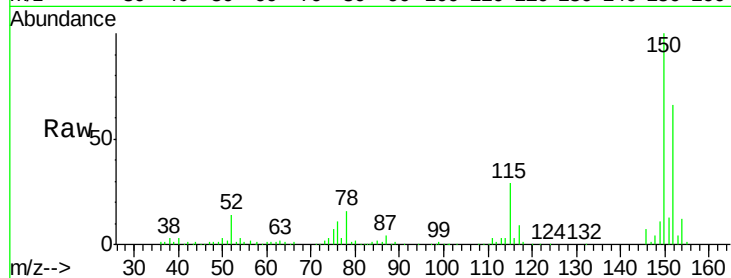
Acq: 28 Jun 2018 03:59

Instrument :

MSVOA\_X

ClientSampleId :

W-27



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 3667  |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 0.0   | 18.7  | 56.1# |
| 148       | 85.3  | 32.4  | 97.0  |

