

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010920\  
 Data File : VW014586.D  
 Acq On : 09 Jan 2020 16:55  
 Operator : SY/VA  
 Sample : L1063-01  
 Misc : 8.91G/5ML/MSVOA W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP022SB451 200108 23-25

Quant Time: Jan 10 01:07:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010320S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 03 16:07:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 653849   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 1010124  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 875632   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 397242   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 306833   | 53.67  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 107.34% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 314876   | 54.54  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.08% |          |
| 50) Toluene-d8              | 10.32 | 98   | 1253348  | 52.02  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.04% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 420869   | 51.50  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.00% |          |

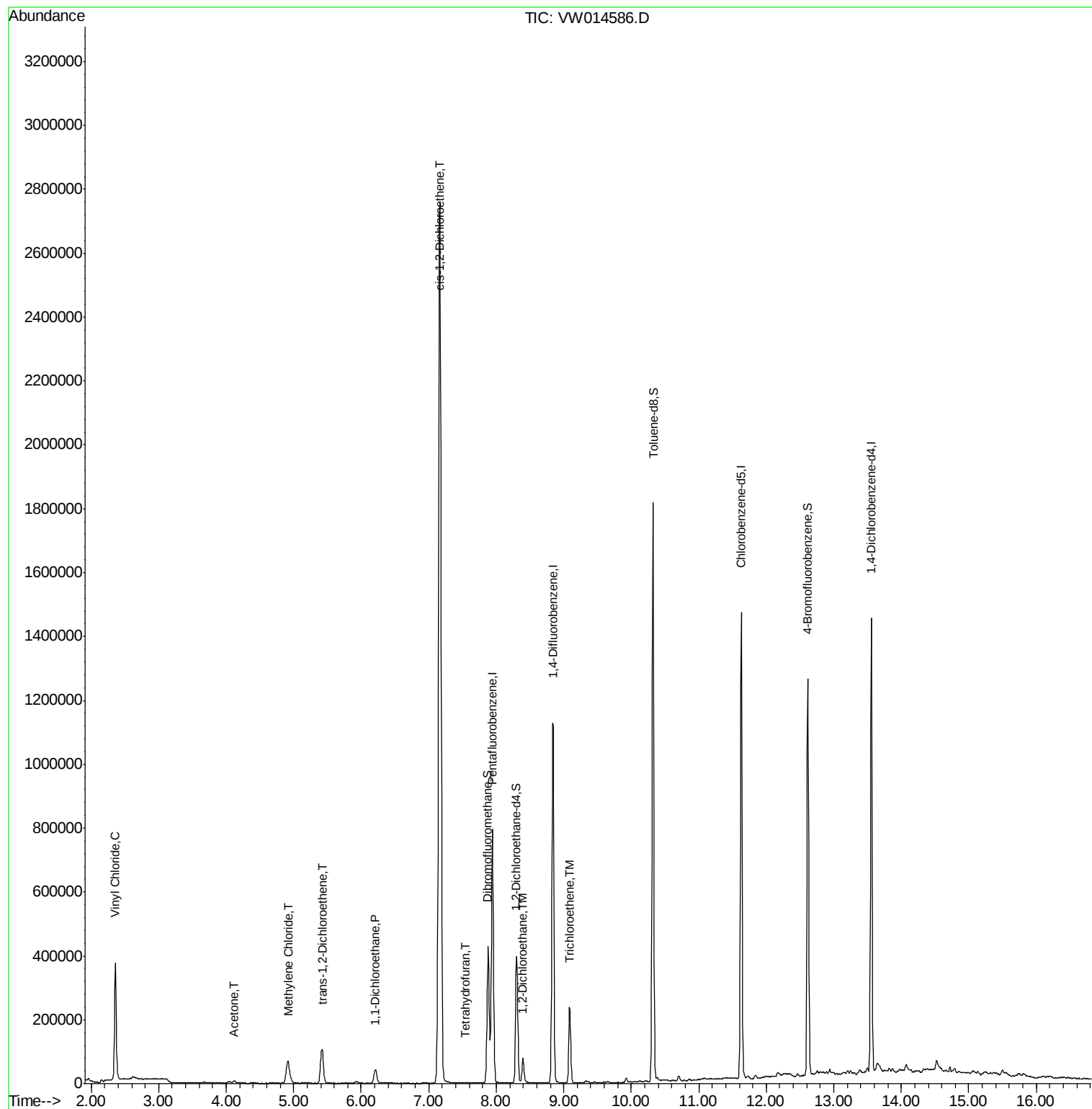
| Target Compounds             | R.T. | QIon | Response | Conc    | Units | Qvalue |
|------------------------------|------|------|----------|---------|-------|--------|
| 4) Vinyl Chloride            | 2.36 | 62   | 412636   | 62.084  | ug/l  | 98     |
| 16) Acetone                  | 4.12 | 43   | 13006    | 8.057   | ug/l  | 97     |
| 20) Methylene Chloride       | 4.92 | 84   | 64173    | 5.839   | ug/l  | 93     |
| 21) trans-1,2-Dichloroethene | 5.42 | 96   | 71626    | 10.367  | ug/l  | 98     |
| 24) 1,1-Dichloroethane       | 6.21 | 63   | 61105    | 5.205   | ug/l  | 96     |
| 27) cis-1,2-Dichloroethene   | 7.17 | 96   | 1772682  | 244.180 | ug/l  | 93     |
| 29) Tetrahydrofuran          | 7.53 | 42   | 1757     | 1.369   | ug/l  | 95     |
| 42) 1,2-Dichloroethane       | 8.40 | 62   | 65067    | 9.100   | ug/l  | 98     |
| 44) Trichloroethene          | 9.09 | 130  | 90420    | 12.128  | ug/l  | 94     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010920\  
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WP022SB451\_200108\_23-25

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010320S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 03 16:07:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :

MSVOA\_W

ClientSampleId :

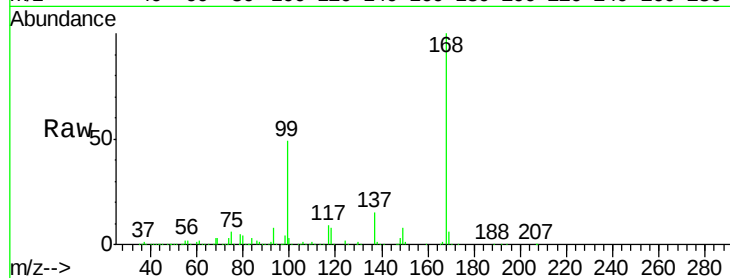
WP022SB451\_200108\_23-25

Tot Ion:168 Resp: 653849

Ion Ratio Lower Upper

168 100

99 48.5 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

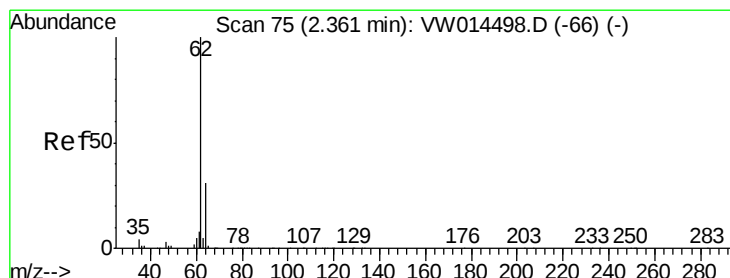
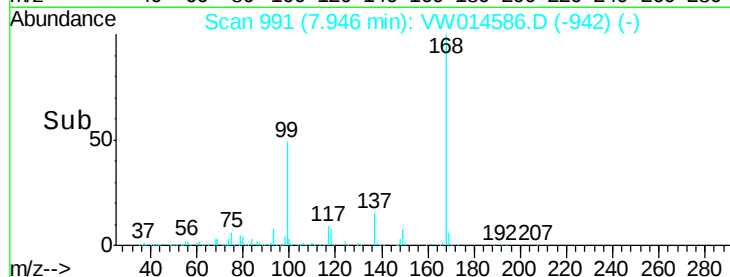
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 62.084 ug/l

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW014586.D

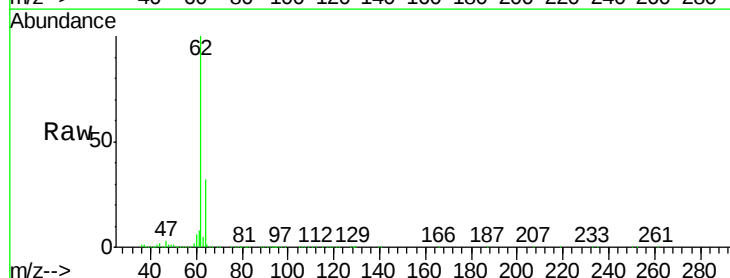
Acq: 09 Jan 2020 16:55

Tgt Ion: 62 Resp: 412636

Ion Ratio Lower Upper

62 100

64 32.3 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

250000

200000

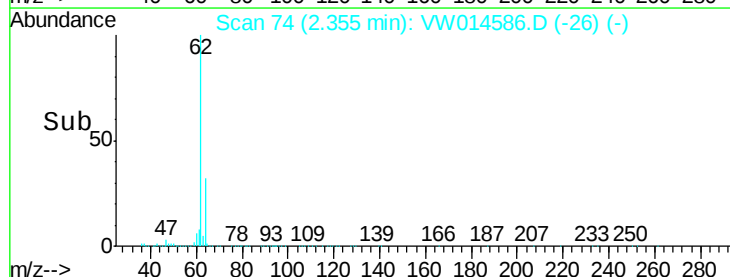
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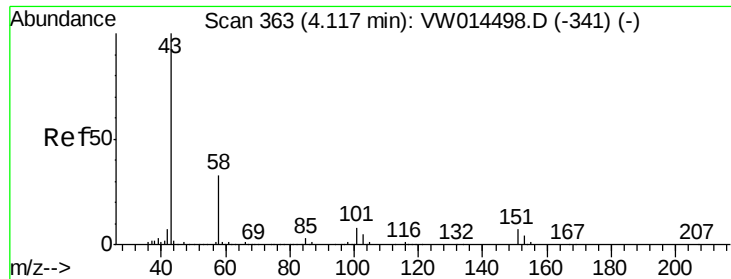
100000

50000

0

Time-->





#16

Acetone

Concen: 8.057 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :

MSVOA\_W

ClientSampleId :

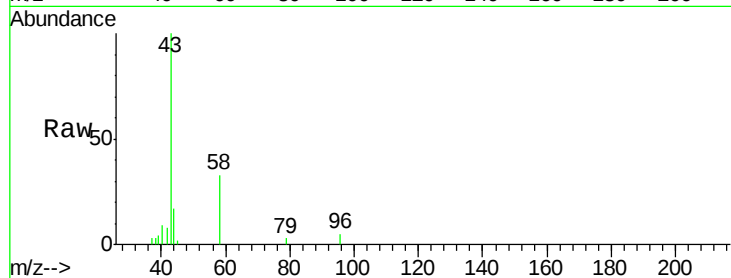
WP022SB451\_200108\_23-25

Tot Ion: 43 Resp: 13006

Ion Ratio Lower Upper

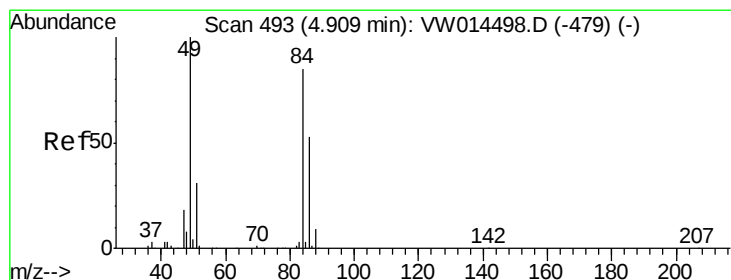
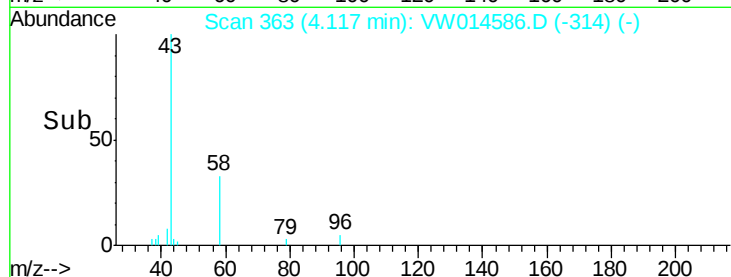
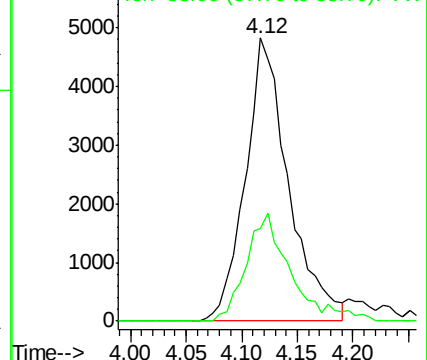
43 100

58 31.3 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 5.839 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Tgt Ion: 84 Resp: 64173

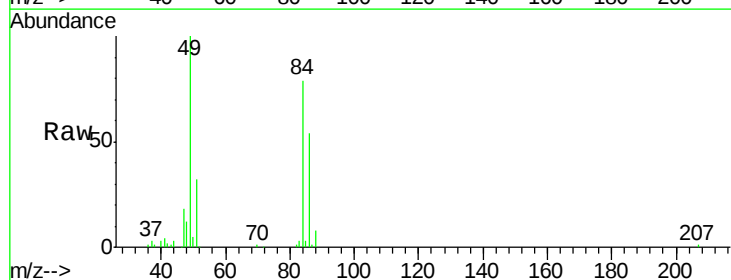
Ion Ratio Lower Upper

84 100

49 126.5 94.4 141.6

51 41.0 29.5 44.3

86 67.8 50.2 75.2

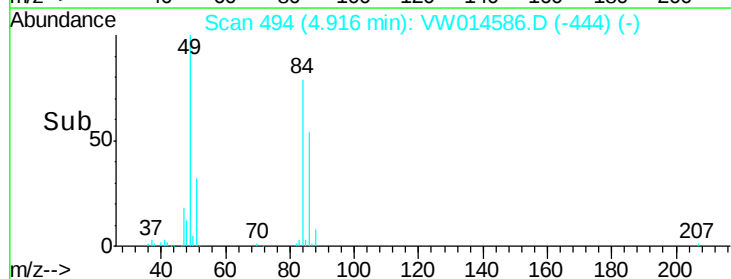
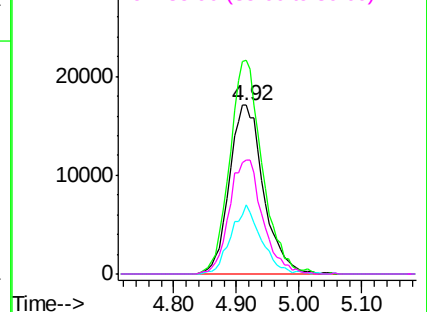


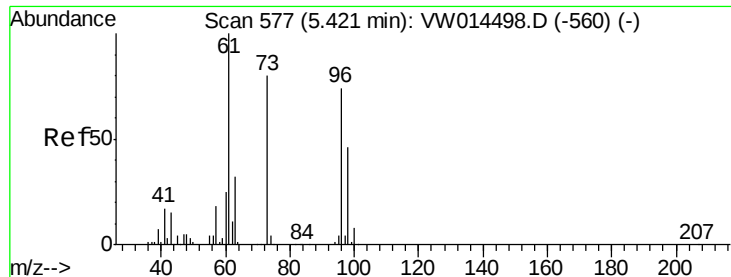
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#21

trans-1,2-Dichloroethene

Concen: 10.367 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :

MSVOA\_W

ClientSampleId :

WP022SB451\_200108\_23-25

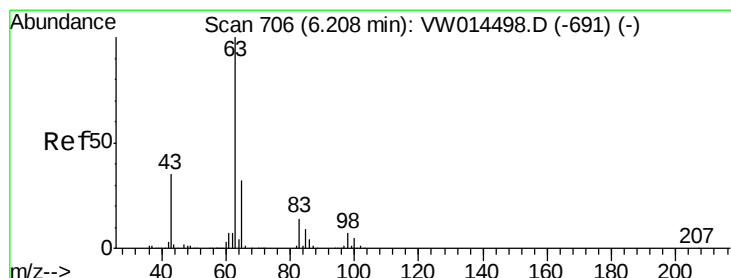
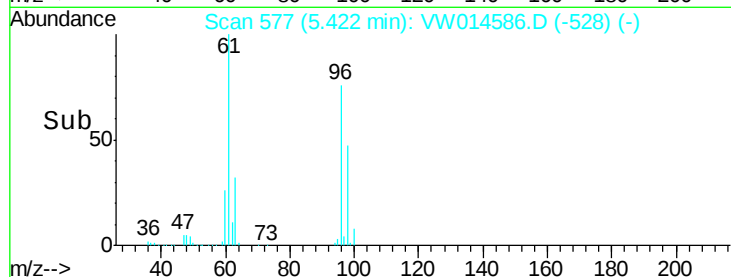
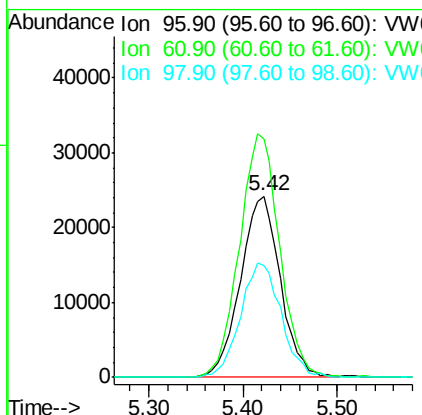
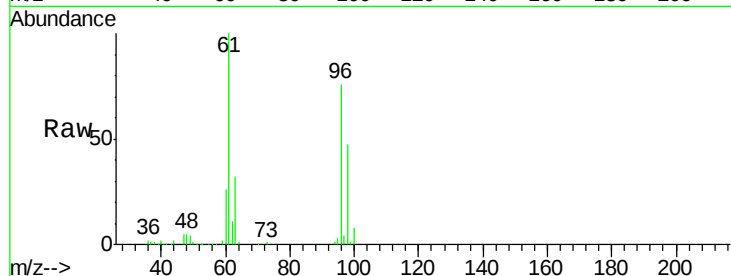
Tot Ion: 96 Resp: 71626

Ion Ratio Lower Upper

96 100

61 131.6 107.8 161.6

98 62.0 49.4 74.0



#24

1,1-Dichloroethane

Concen: 5.205 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

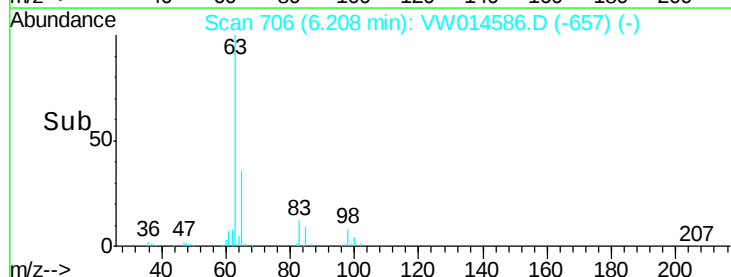
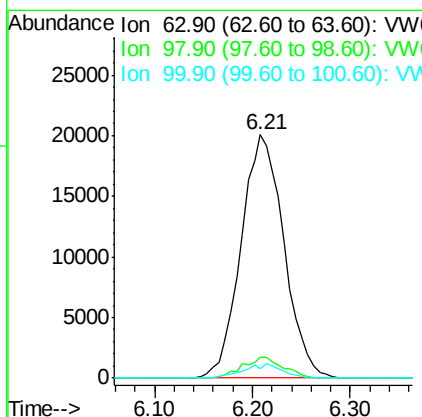
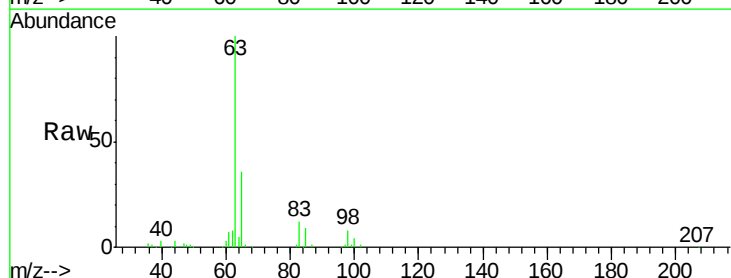
Tgt Ion: 63 Resp: 61105

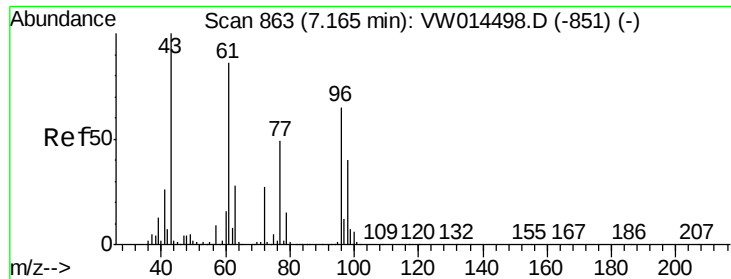
Ion Ratio Lower Upper

63 100

98 8.4 3.5 10.4

100 4.0 2.5 7.4

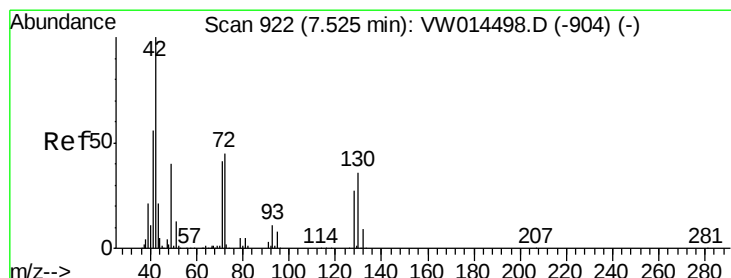
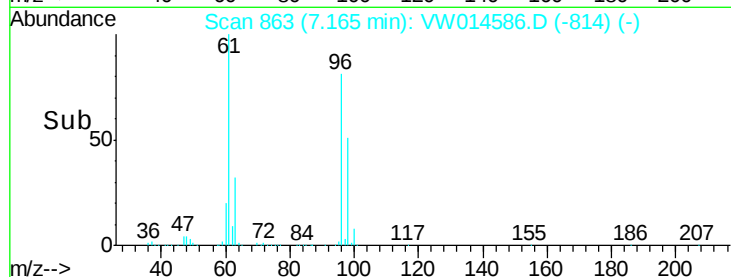
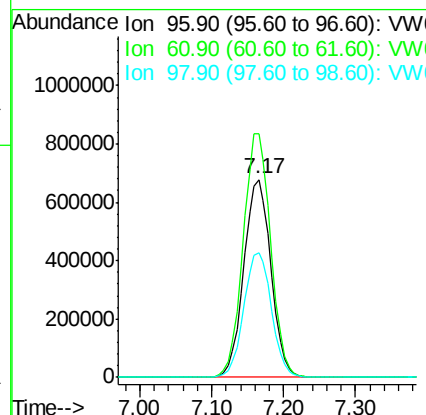
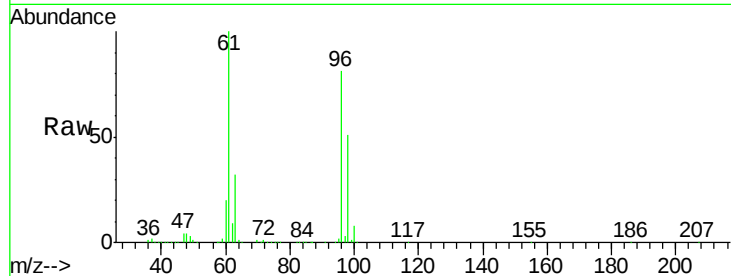




#27  
 cis-1,2-Dichloroethene  
 Concen: 244.180 ug/l  
 RT: 7.17 min Scan# 863  
 Delta R.T. 0.00 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

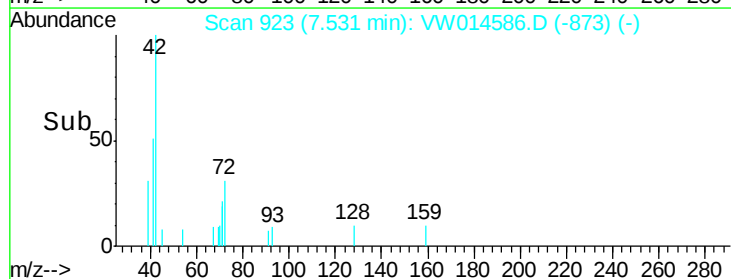
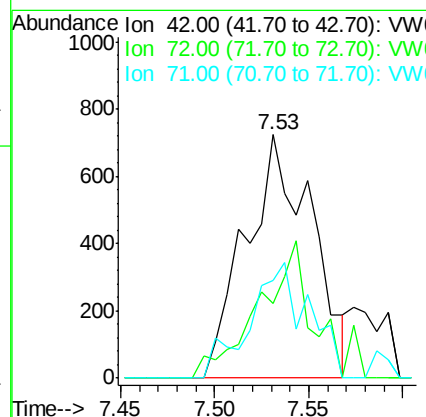
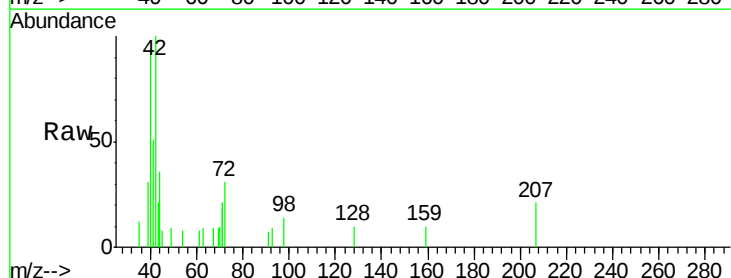
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP022SB451\_200108\_23-25

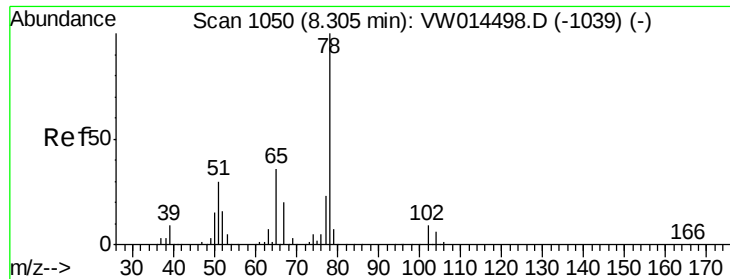
Tot Ion: 96 Resp: 1772682  
 Ion Ratio Lower Upper  
 96 100  
 61 124.8 0.0 274.8  
 98 64.2 0.0 128.6



#29  
 Tetrahydrofuran  
 Concen: 1.369 ug/l  
 RT: 7.53 min Scan# 923  
 Delta R.T. 0.01 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

Tgt Ion: 42 Resp: 1757  
 Ion Ratio Lower Upper  
 42 100  
 72 47.4 34.5 51.7  
 71 42.5 32.0 48.0

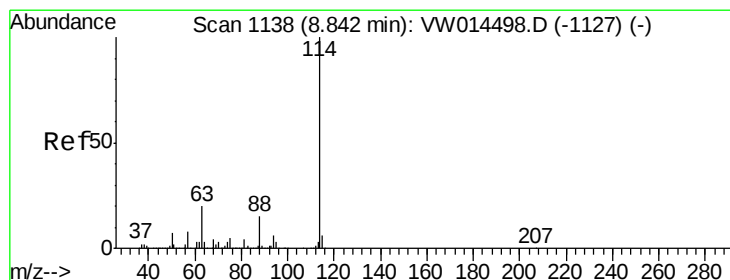
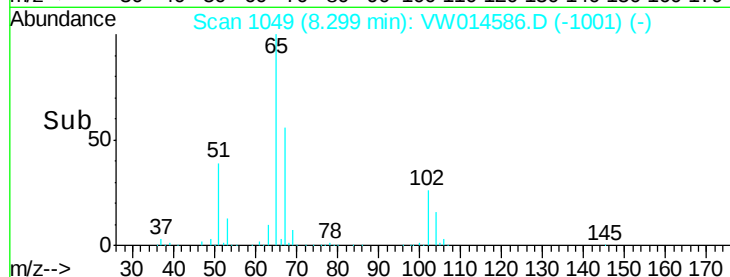
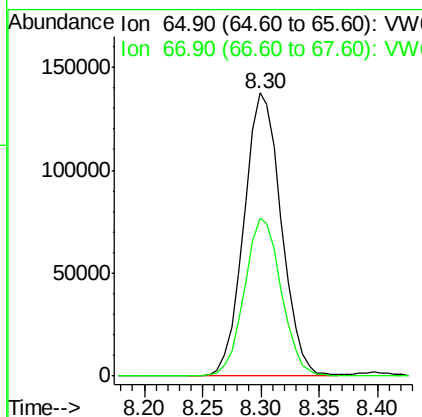
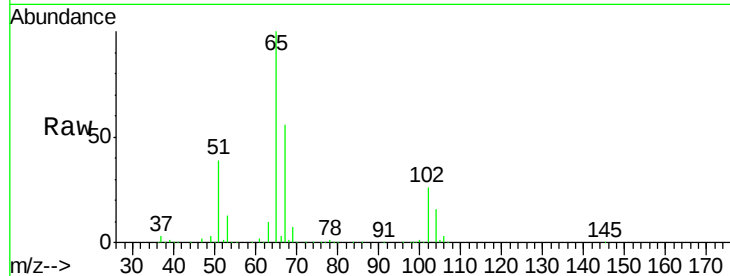




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.673 ug/l  
 RT: 8.30 min Scan# 1049  
 Delta R.T. -0.01 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

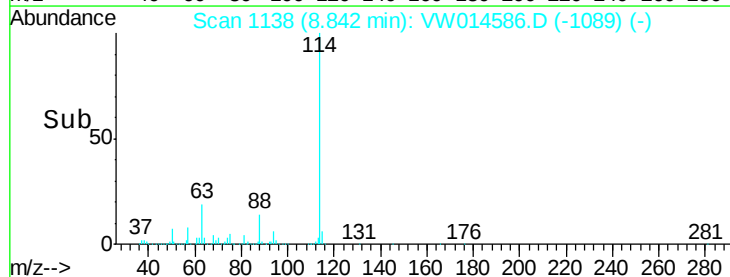
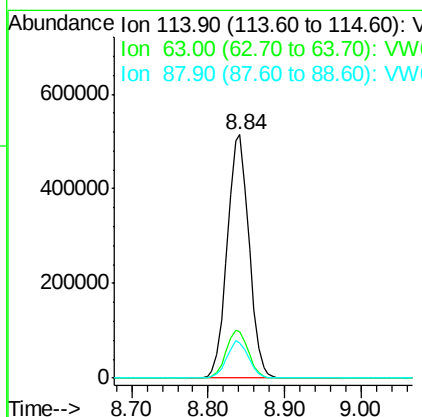
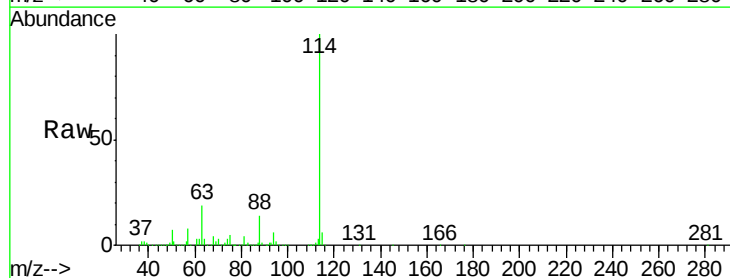
Instrument :  
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 WP022SB451\_200108\_23-25

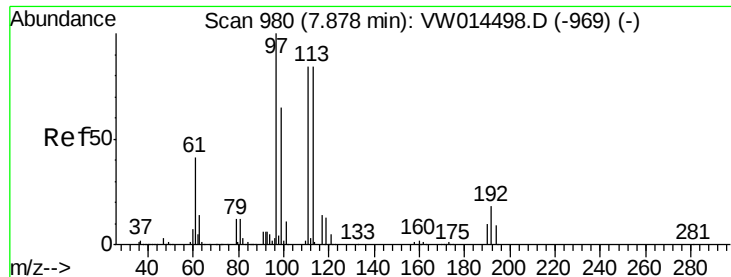
Tot Ion: 65 Resp: 306833  
 Ion Ratio Lower Upper  
 65 100  
 67 55.1 0.0 108.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

Tgt Ion: 114 Resp: 1010124  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 40.4  
 88 14.5 0.0 30.6

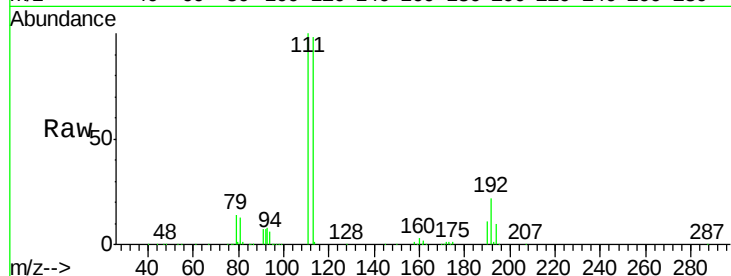




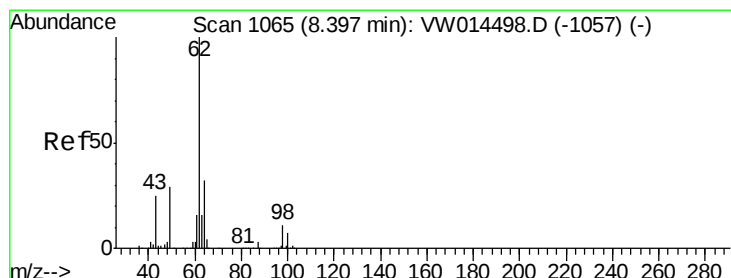
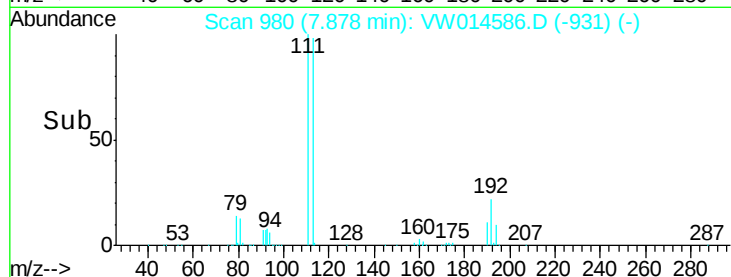
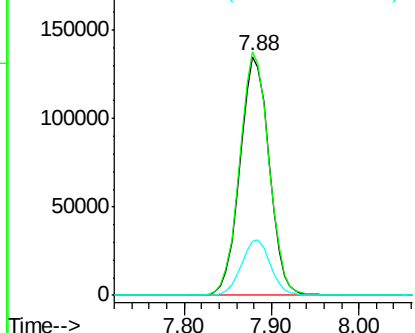
#35  
 Dibromofluoromethane  
 Concen: 54.543 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. 0.00 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP022SB451\_200108\_23-25

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.4 | 81.4  | 122.2 |
| 192     | 23.0  | 17.8  | 26.8  |

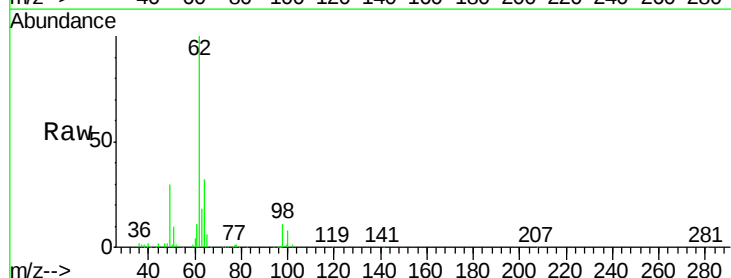


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

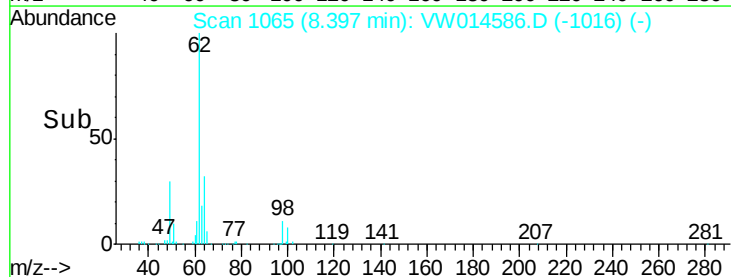
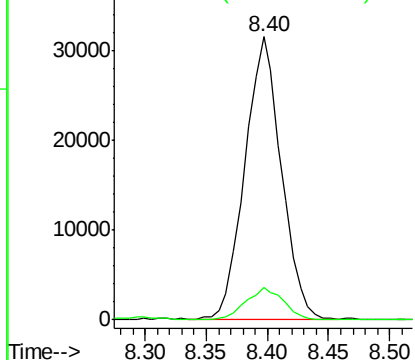


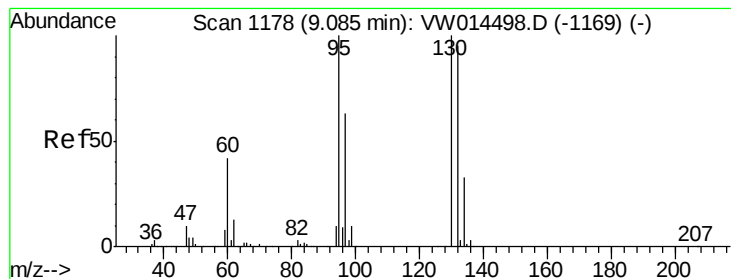
#42  
 1,2-Dichloroethane  
 Concen: 9.100 ug/l  
 RT: 8.40 min Scan# 1065  
 Delta R.T. 0.00 min  
 Lab File: VW014586.D  
 Acq: 09 Jan 2020 16:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 11.9  | 0.0   | 22.0  |



Abundance Ion 61.90 (61.60 to 62.60): VW  
 Ion 97.90 (97.60 to 98.60): VW





#44

Trichloroethene

Concen: 12.128 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :

MSVOA\_W

ClientSampleId :

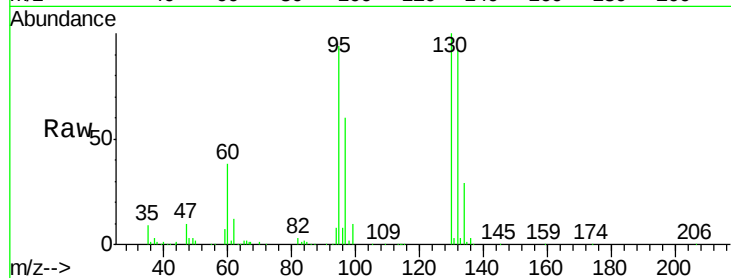
WP022SB451\_200108\_23-25

Tot Ion:130 Resp: 90420

Ion Ratio Lower Upper

130 100

95 94.0 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): VW014498.D (-1169) (-)

Ion 94.90 (94.60 to 95.60): VW014498.D (-1169) (-)

9.09

50000

40000

30000

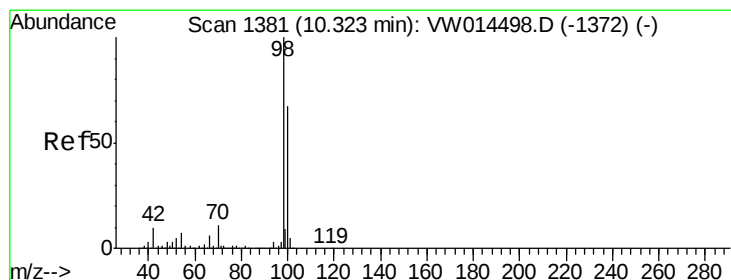
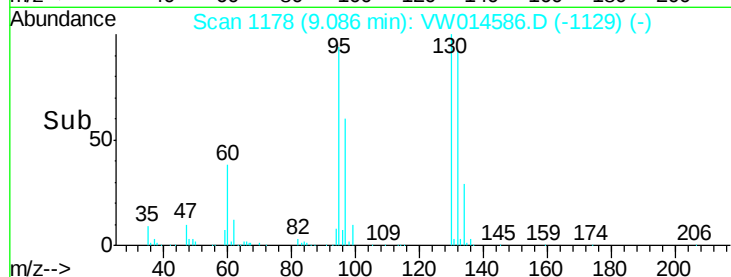
20000

10000

0

9.00 9.10 9.20

Time-->



#50

Toluene-d8

Concen: 52.023 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW014586.D

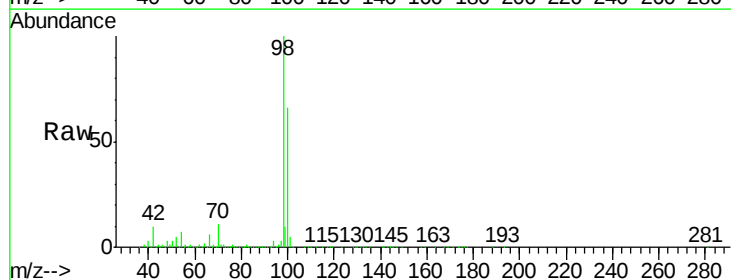
Acq: 09 Jan 2020 16:55

Tgt Ion: 98 Resp: 1253348

Ion Ratio Lower Upper

98 100

100 66.0 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VW014498.D (-1372) (-)

Ion 100.00 (99.70 to 100.70): VW014498.D (-1372) (-)

10.32

800000

600000

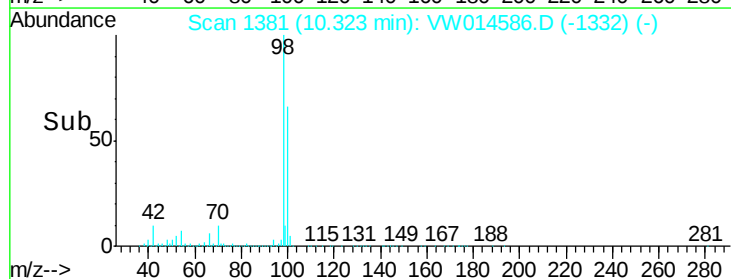
400000

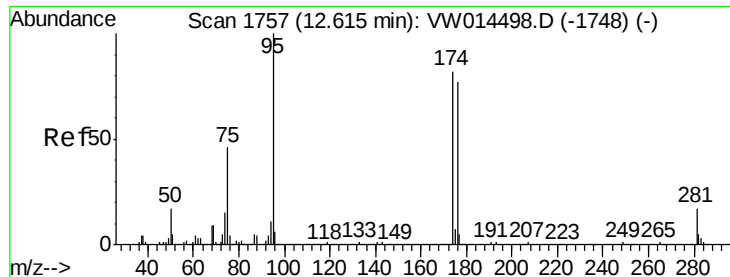
200000

0

10.20 10.40

Time-->

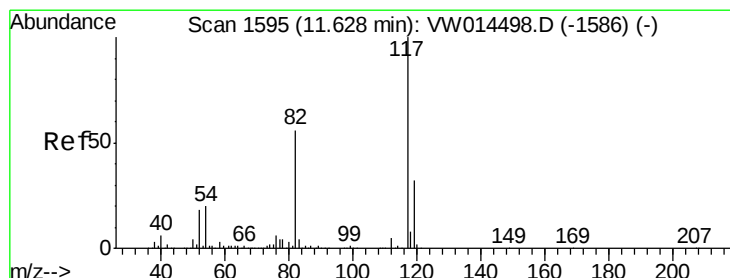
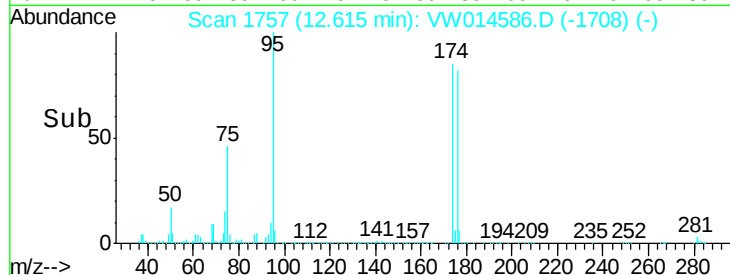
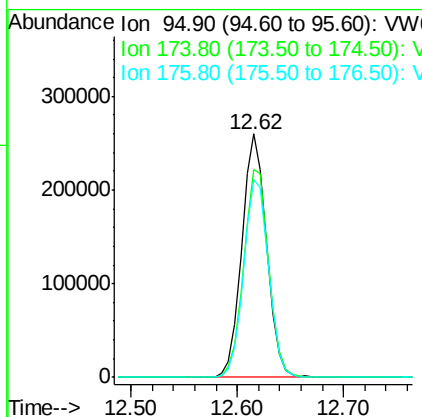
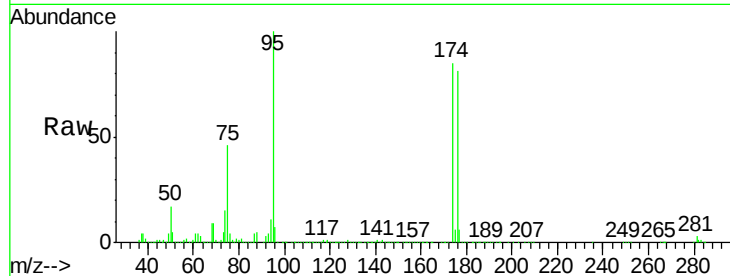




#62  
4-Bromofluorobenzene  
Concen: 51.502 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.00 min  
Lab File: VW014586.D  
Acq: 09 Jan 2020 16:55

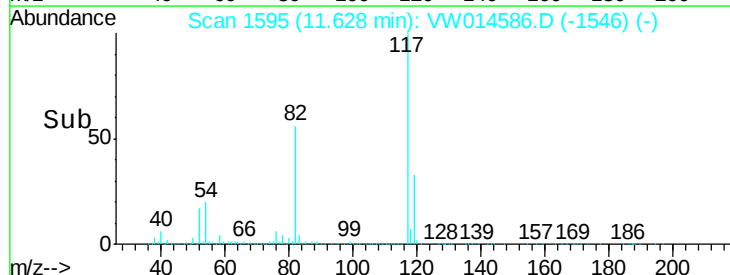
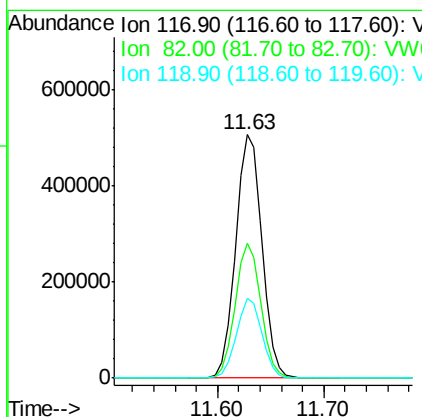
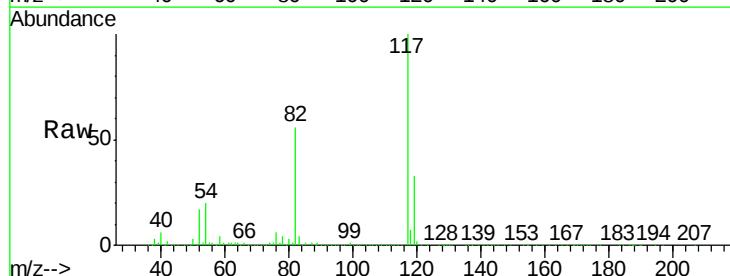
Instrument :  
MSVOA\_W  
ClientSampleId :  
WP022SB451\_200108\_23-25

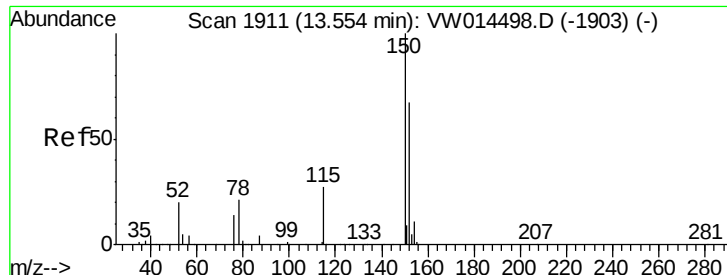
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 87.0  | 0.0   | 168.6 |
| 176     | 82.9  | 0.0   | 162.0 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. 0.00 min  
Lab File: VW014586.D  
Acq: 09 Jan 2020 16:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.6  | 44.6  | 67.0  |
| 119     | 32.6  | 25.7  | 38.5  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. 0.00 min

Lab File: VW014586.D

Acq: 09 Jan 2020 16:55

Instrument :

MSVOA\_W

ClientSampleId :

WP022SB451\_200108\_23-25

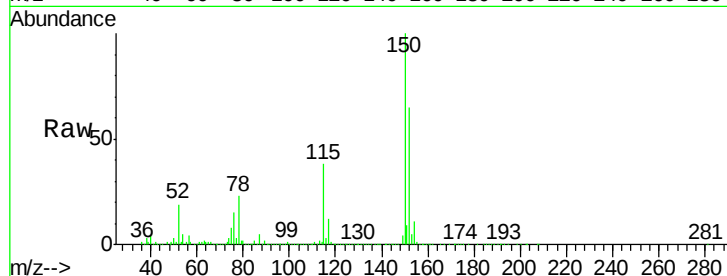
Tot Ion:152 Resp: 397242

Ion Ratio Lower Upper

152 100

115 56.5 27.7 83.1

150 156.5 0.0 343.4



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

