

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052819\  
 Data File : VW010571.D  
 Acq On : 28 May 2019 17:00  
 Operator : SY/VA  
 Sample : K3065-01  
 Misc : 5.09G/5ML/MSVOA W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 B-16-15-2.0

Quant Time: May 29 07:02:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 21 06:38:43 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 108504   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 188236   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 168459   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 74937    | 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   | 58575    | 52.30  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.60% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 53056    | 46.45  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 92.90%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 225723   | 51.73  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.46% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 83282    | 47.92  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.84%  |          |

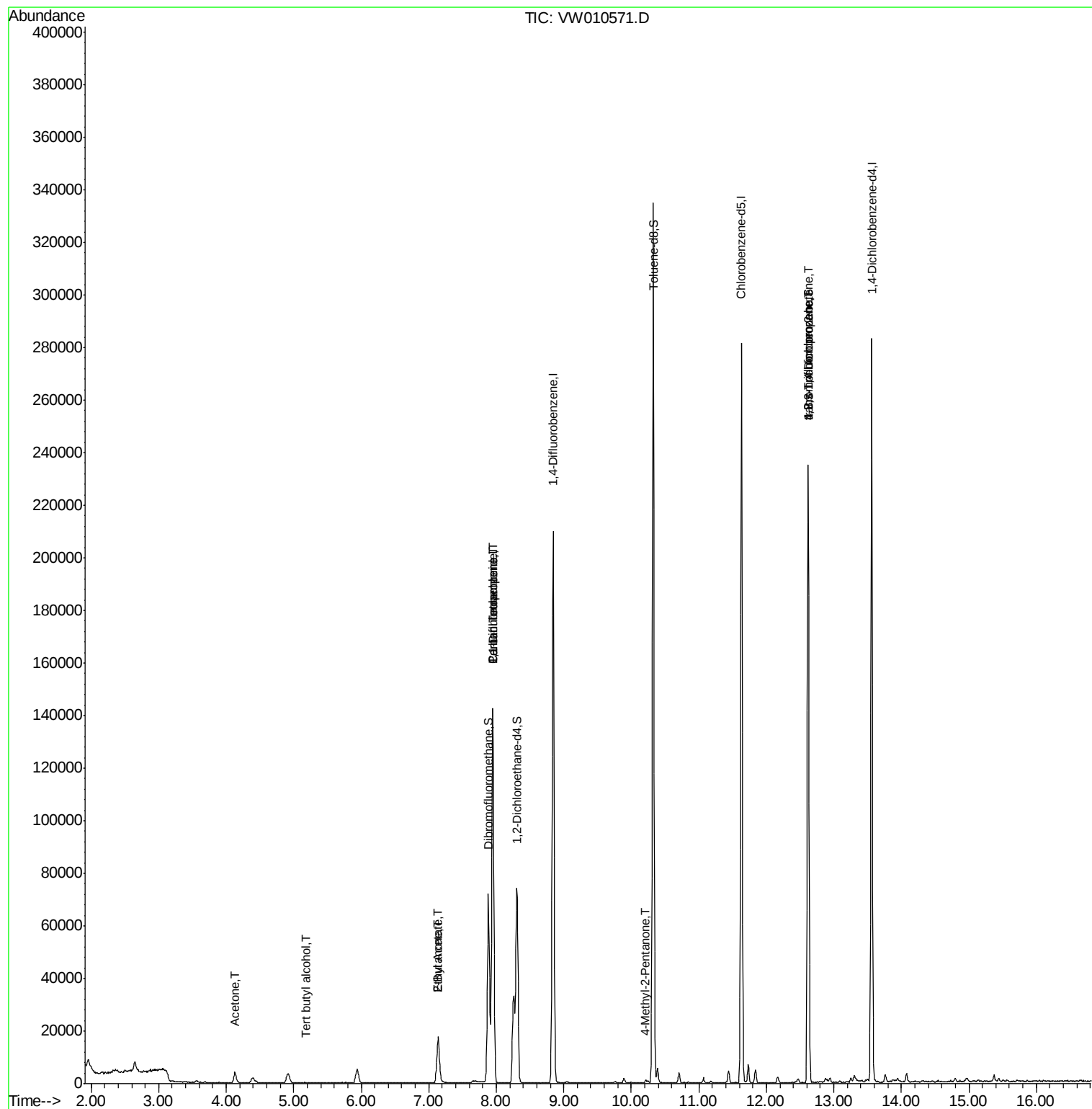
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 120      | Below Cal | #      | 42     |
| 11) Tert butyl alcohol         | 5.18  | 59   | 198      | 1.965     | ug/l # | 71     |
| 16) Acetone                    | 4.13  | 43   | 7163     | 31.333    | ug/l   | 95     |
| 20) Methylene Chloride         | 4.91  | 84   | 3040     | Below Cal |        | 95     |
| 25) 2-Butanone                 | 7.14  | 43   | 1268     | 3.876     | ug/l # | 45     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 8204     | 4.679     | ug/l # | 48     |
| 37) Ethyl Acetate              | 7.14  | 43   | 1268     | 1.700     | ug/l # | 25     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 11352    | 6.001     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 997      | 1.321     | ug/l # | 87     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 39576    | 52.029    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 39576    | 108.585   | ug/l # | 14     |

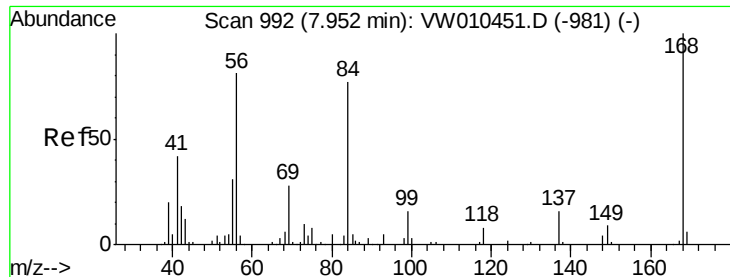
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052819\  
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Misc : 5.09G/5ML/MSVOA W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
B-16-1.5-2.0

Quant Time: May 29 07:02:30 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 21 06:38:43 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010571.D

Acq: 28 May 2019 17:00

Instrument :

MSVOA\_W

ClientSampleId :

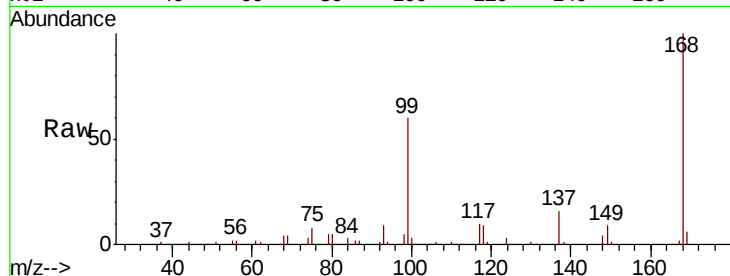
B-16-1.5-2.0

Tot Ion:168 Resp: 108504

Ion Ratio Lower Upper

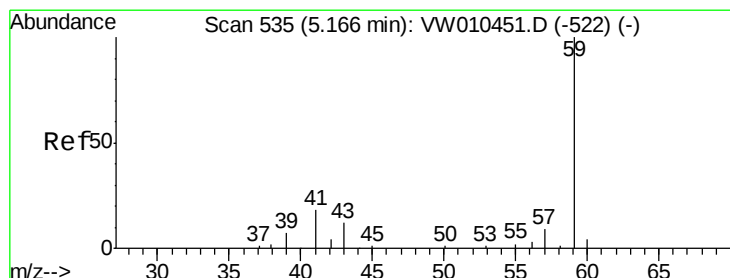
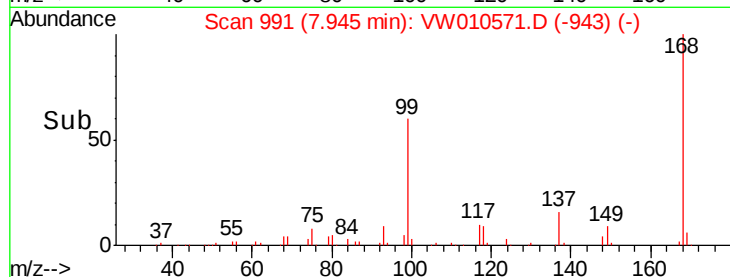
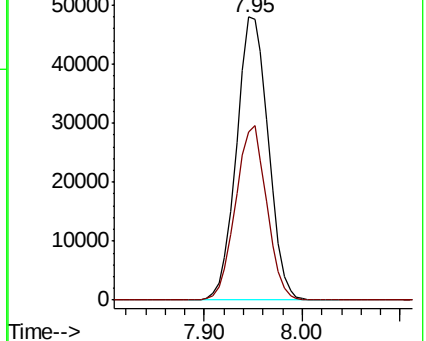
168 100

99 59.6 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.965 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.02 min

Lab File: VW010571.D

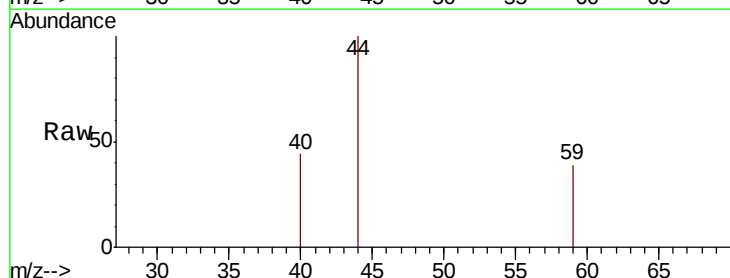
Acq: 28 May 2019 17:00

Tgt Ion: 59 Resp: 198

Ion Ratio Lower Upper

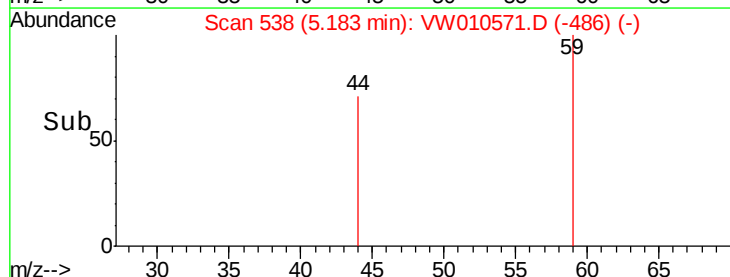
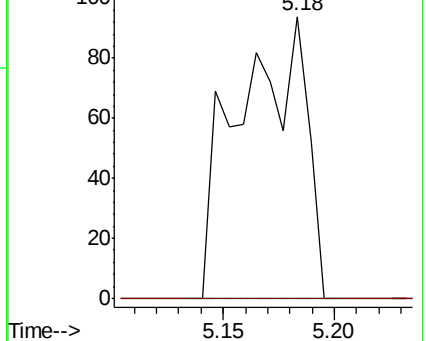
59 100

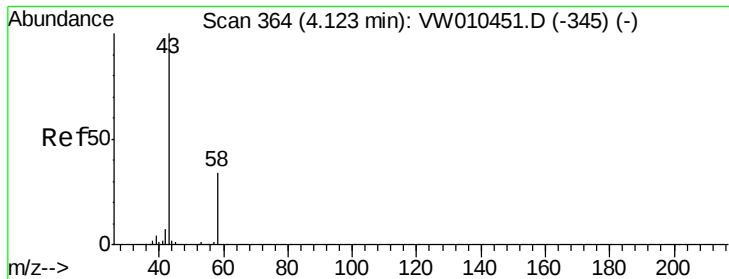
57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

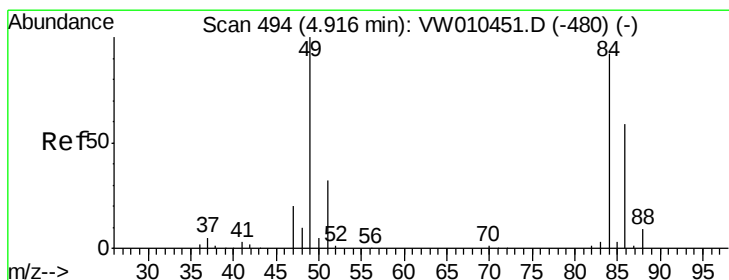
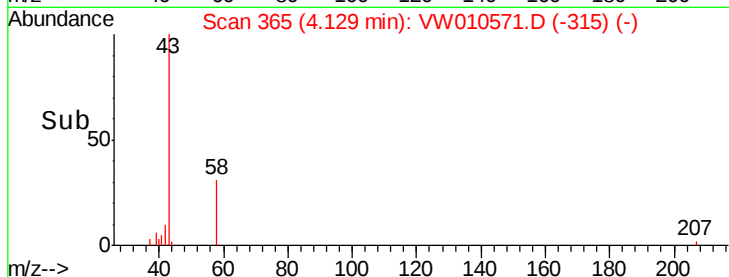
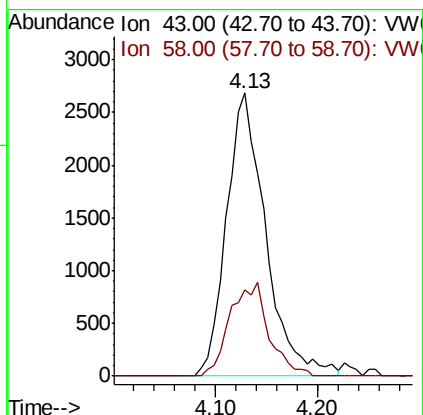
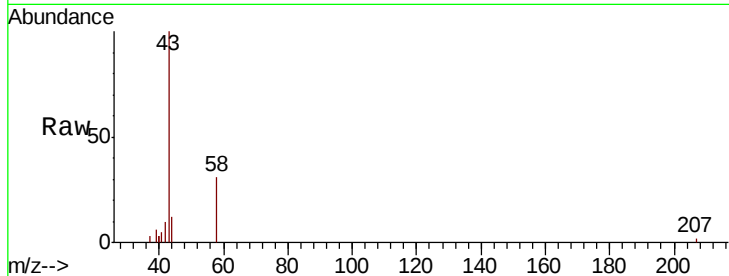




#16  
Acetone  
Concen: 31.333 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. 0.01 min  
Lab File: VW010571.D  
Acq: 28 May 2019 17:00

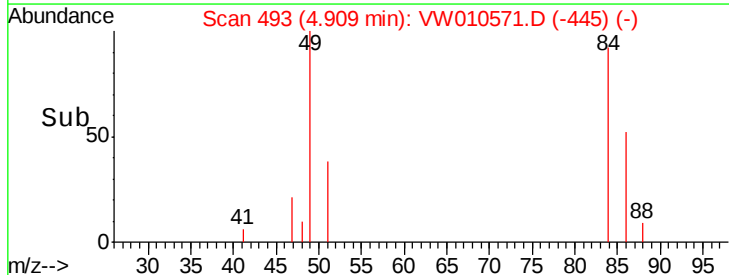
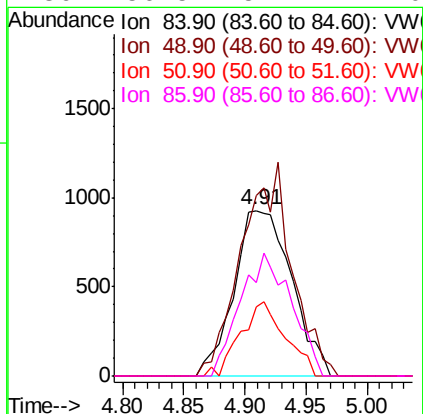
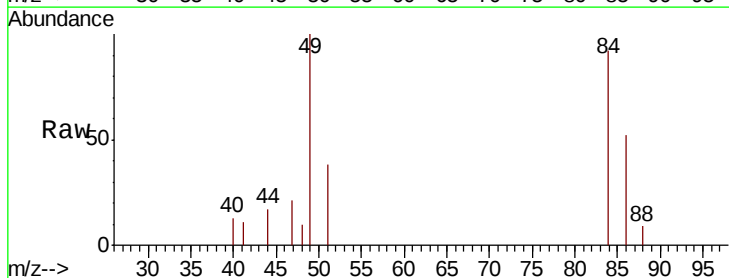
Instrument :  
MSVOA\_W  
ClientSampleId :  
B-16-1.5-2.0

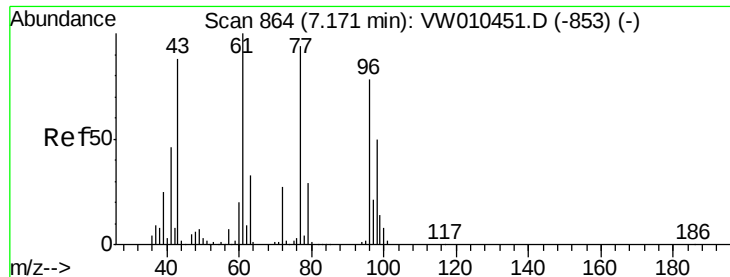
Tot Ion: 43 Resp: 7163  
Ion Ratio Lower Upper  
43 100  
58 30.7 27.0 40.4



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW010571.D  
Acq: 28 May 2019 17:00

Tgt Ion: 84 Resp: 3040  
Ion Ratio Lower Upper  
84 100  
49 108.7 87.2 130.8  
51 41.4 27.7 41.5  
86 56.5 51.4 77.0





#25

2-Butanone

Concen: 3.876 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW010571.D

Acq: 28 May 2019 17:00

Instrument :

MSVOA\_W

ClientSampleId :

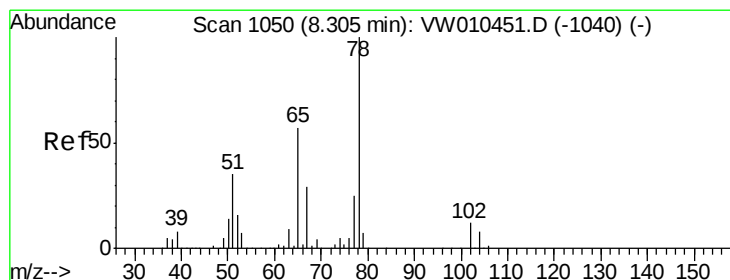
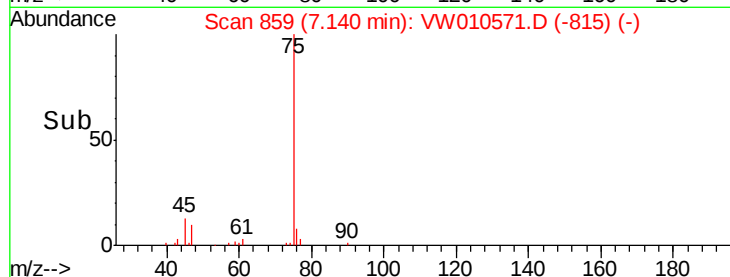
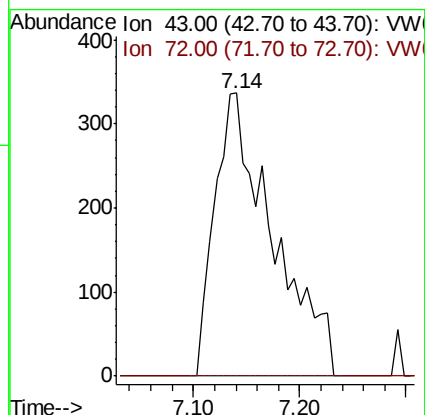
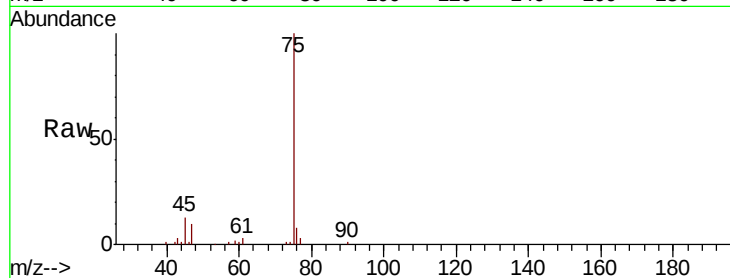
B-16-1.5-2.0

Tot Ion: 43 Resp: 1268

Ion Ratio Lower Upper

43 100

72 0.0 24.1 36.1#



#33

1,2-Dichloroethane-d4

Concen: 52.302 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010571.D

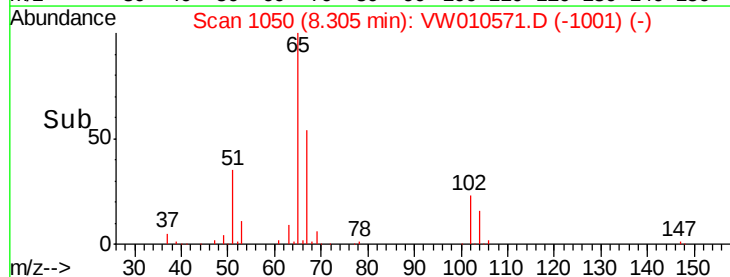
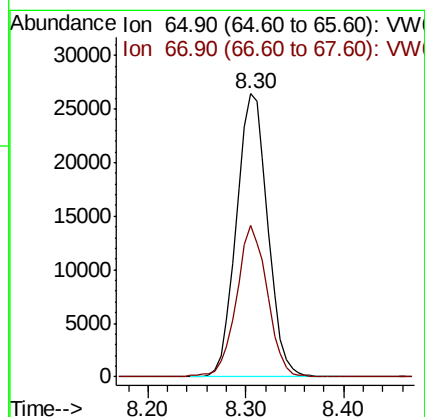
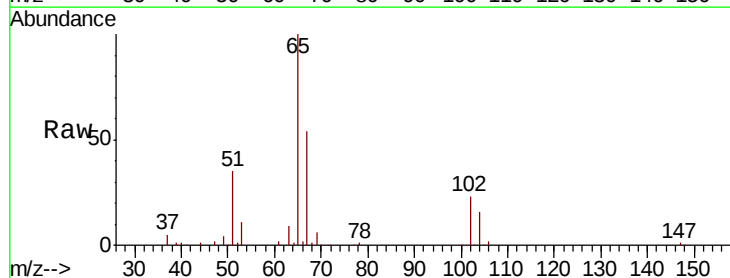
Acq: 28 May 2019 17:00

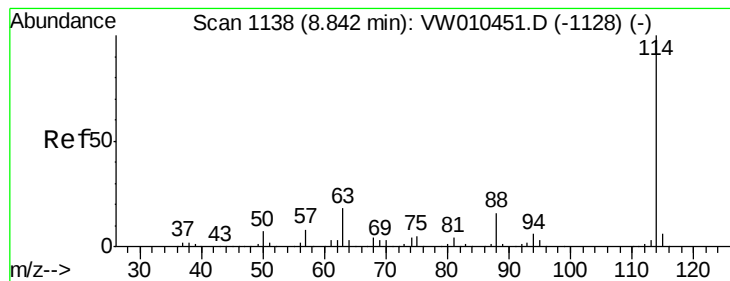
Tgt Ion: 65 Resp: 58575

Ion Ratio Lower Upper

65 100

67 52.9 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW010571.D

Acq: 28 May 2019 17:00

Instrument :

MSVOA\_W

ClientSampleId :

B-16-1.5-2.0

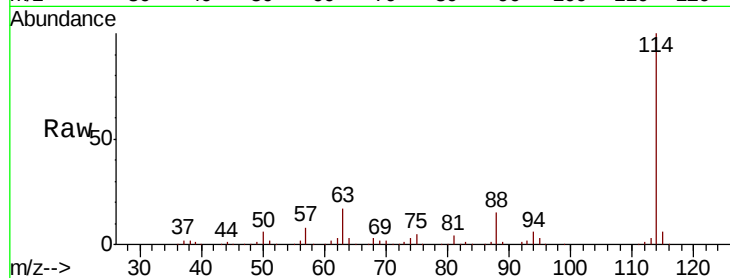
Tot Ion:114 Resp: 188236

Ion Ratio Lower Upper

114 100

63 17.0 0.0 36.0

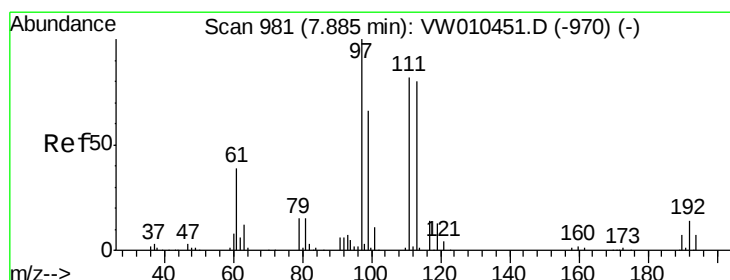
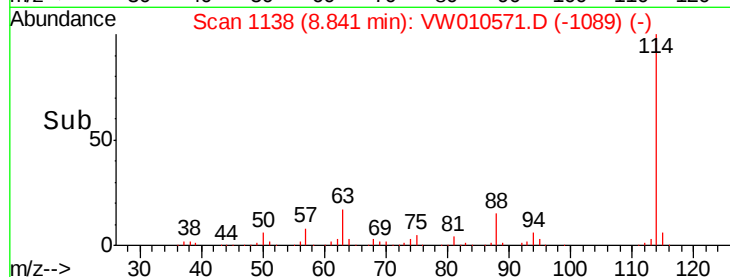
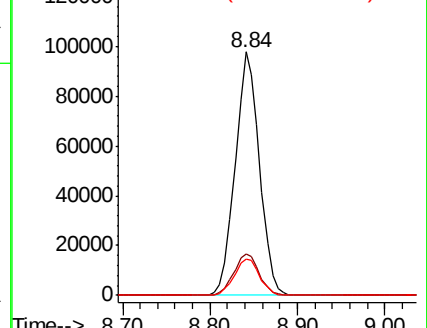
88 15.0 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 46.452 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010571.D

Acq: 28 May 2019 17:00

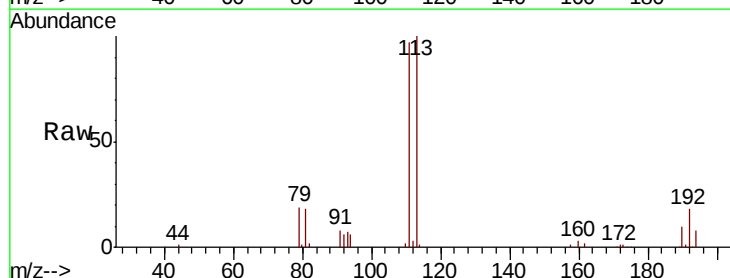
Tgt Ion:113 Resp: 53056

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

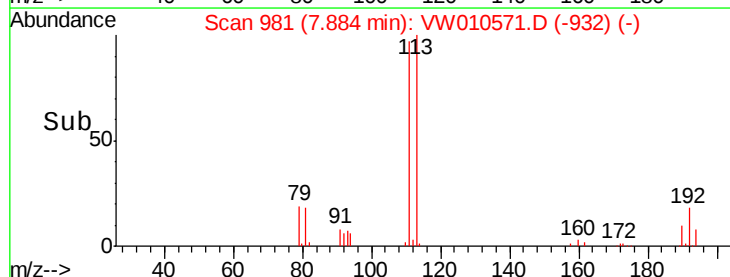
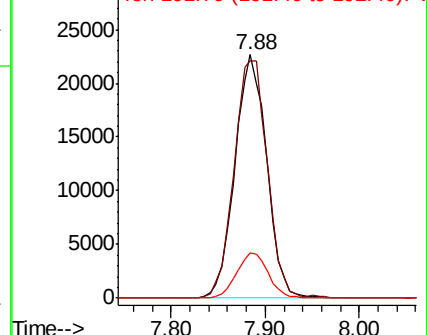
192 18.4 14.3 21.5

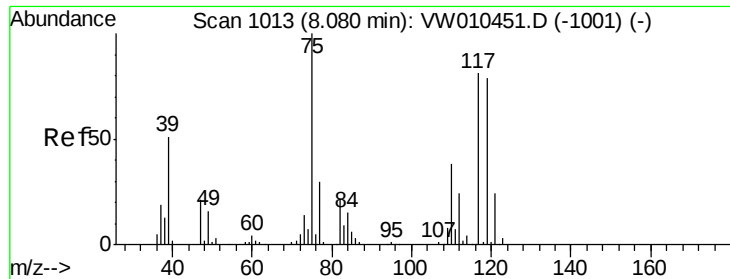


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

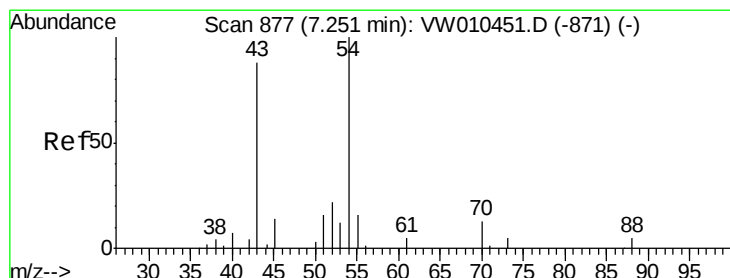
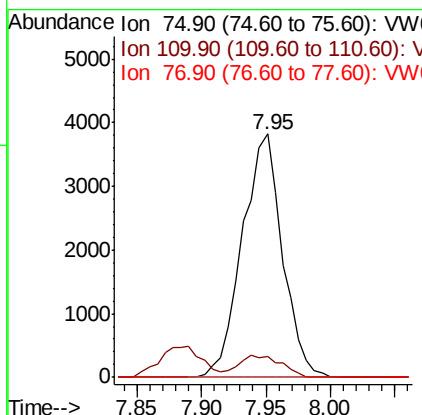
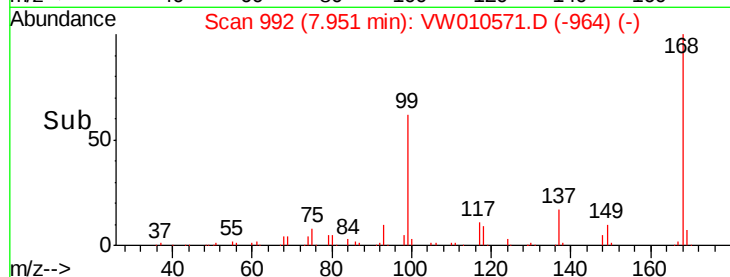
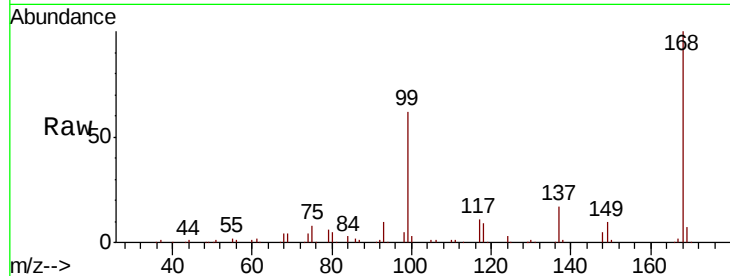




#36  
 1,1-Dichloropropene  
 Concen: 4.679 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW010571.D  
 Acq: 28 May 2019 17:00

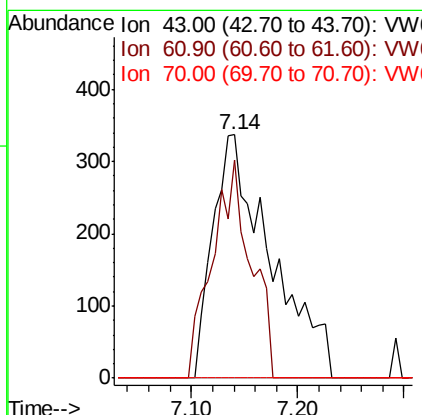
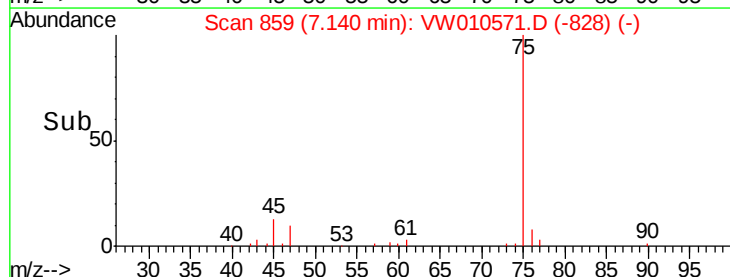
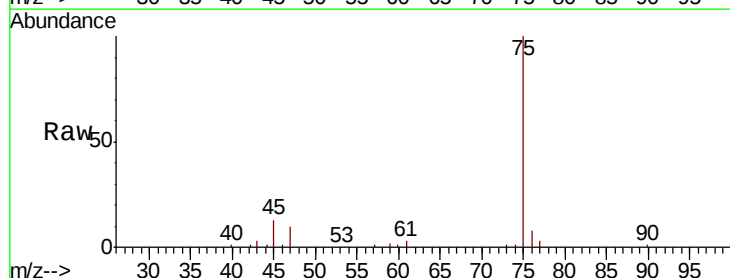
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 B-16-1.5-2.0

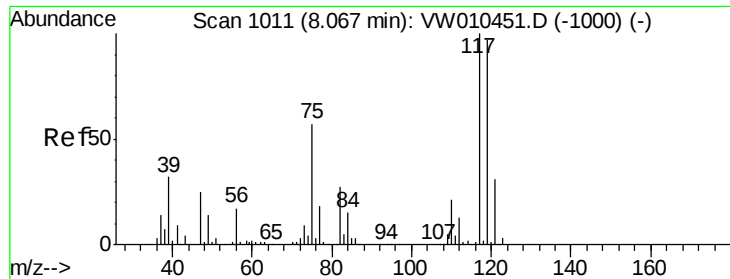
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.6   | 19.2  | 57.6# |
| 77      | 0.0   | 25.2  | 37.8# |



#37  
 Ethyl Acetate  
 Concen: 1.700 ug/l  
 RT: 7.14 min Scan# 859  
 Delta R.T. -0.11 min  
 Lab File: VW010571.D  
 Acq: 28 May 2019 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 60.0  | 11.2  | 16.8# |
| 70      | 0.0   | 9.9   | 14.9# |

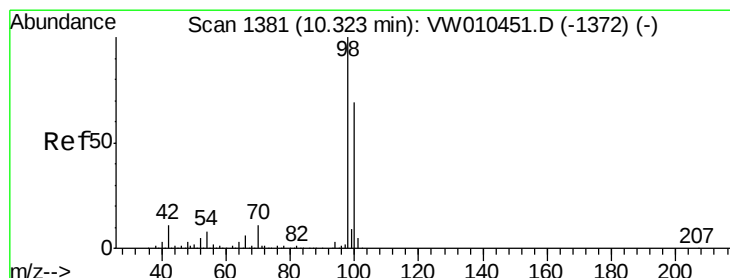
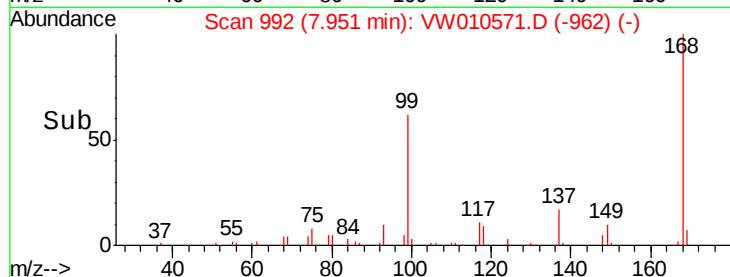
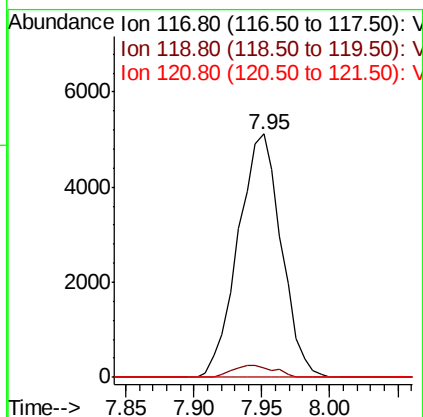
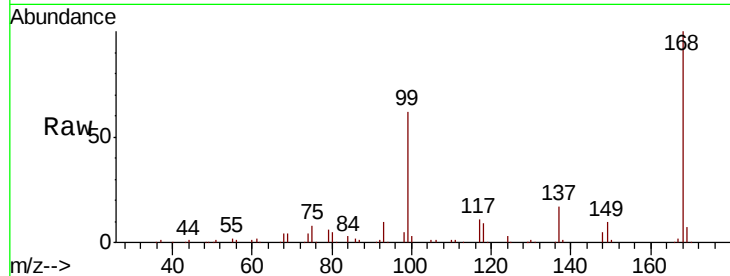




#38  
Carbon Tetrachloride  
Concen: 6.001 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW010571.D  
Acq: 28 May 2019 17:00

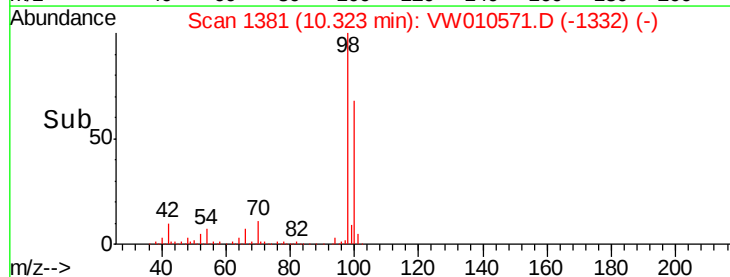
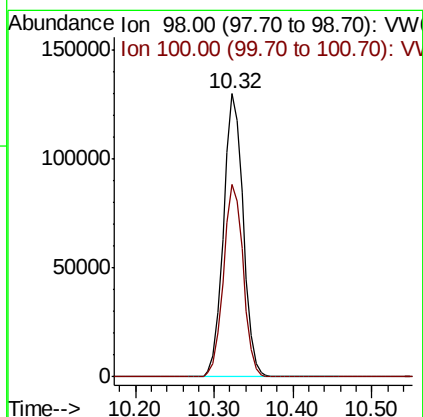
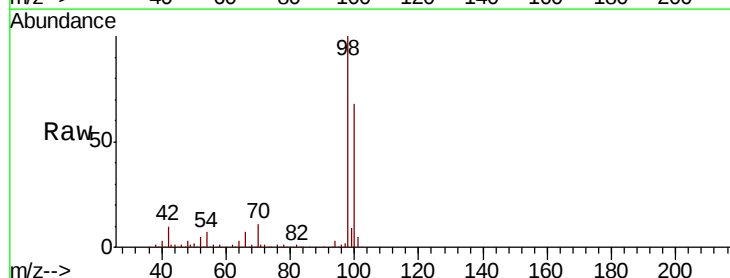
Instrument :  
MSVOA\_W  
ClientSampleId :  
B-16-1.5-2.0

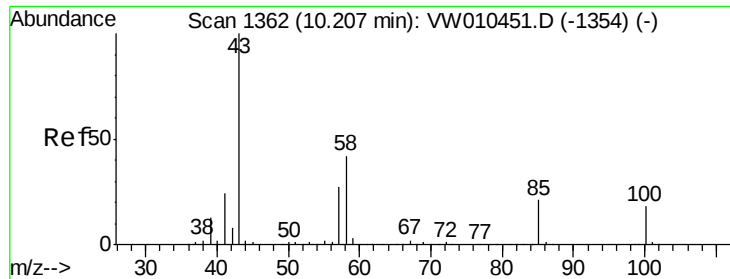
Tot Ion:117 Resp: 11352  
Ion Ratio Lower Upper  
117 100  
119 3.9 77.4 116.0#  
121 0.0 25.0 37.6#



#50  
Toluene-d8  
Concen: 51.731 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW010571.D  
Acq: 28 May 2019 17:00

Tgt Ion: 98 Resp: 225723  
Ion Ratio Lower Upper  
98 100  
100 68.2 53.7 80.5





#51

4-Methyl-2-Pentanone

Concen: 1.321 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010571.D

Acq: 28 May 2019 17:00

Instrument :

MSVOA\_W

ClientSampleId :

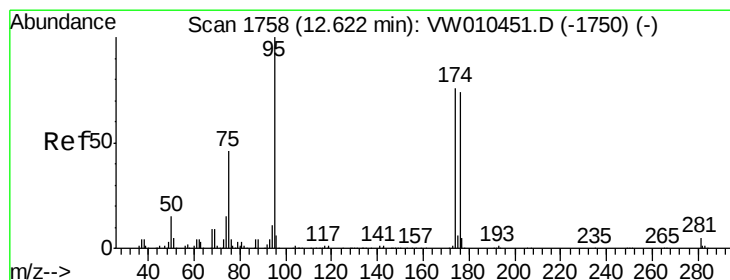
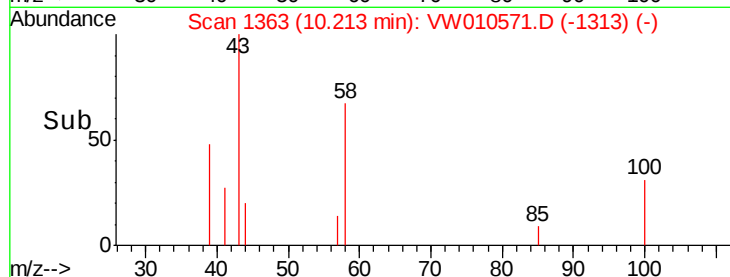
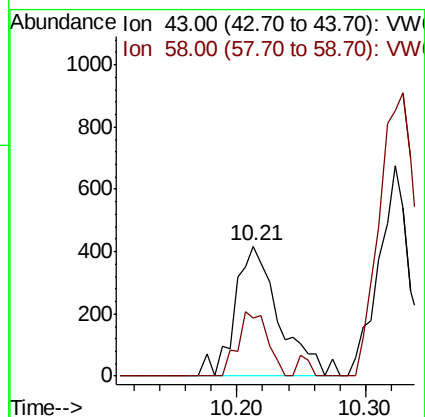
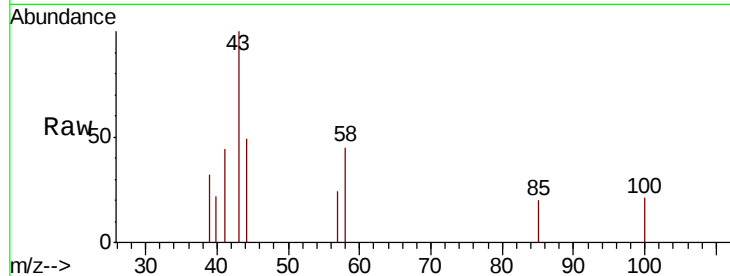
B-16-1.5-2.0

Tot Ion: 43 Resp: 997

Ion Ratio Lower Upper

43 100

58 33.2 33.2 49.8#



#62

4-Bromofluorobenzene

Concen: 47.918 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010571.D

Acq: 28 May 2019 17:00

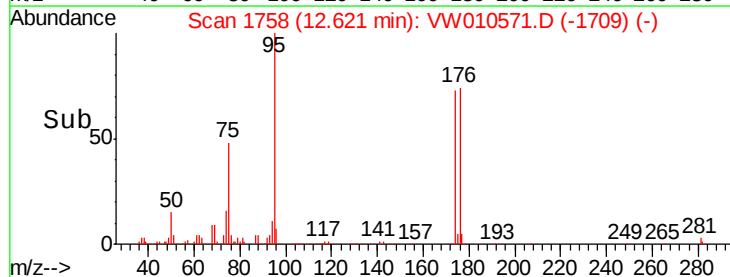
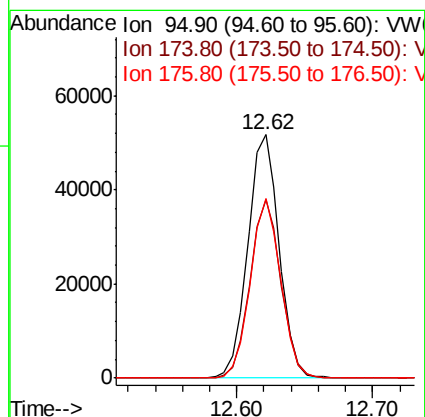
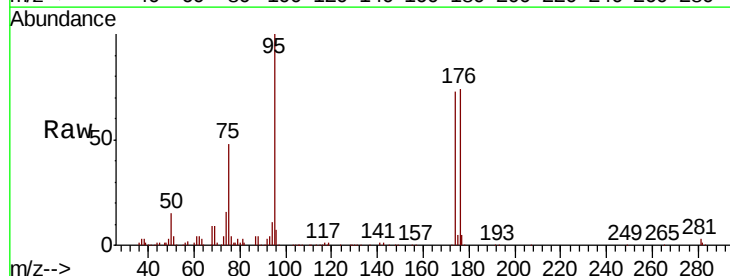
Tgt Ion: 95 Resp: 83282

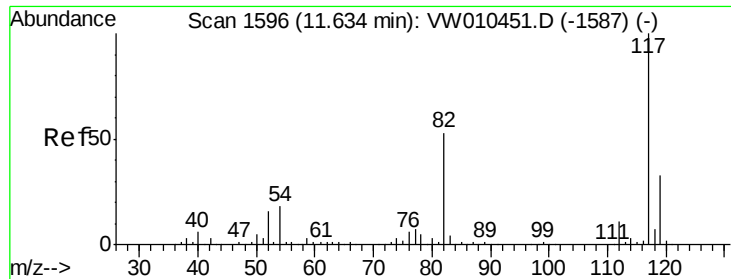
Ion Ratio Lower Upper

95 100

174 72.3 0.0 148.6

176 71.5 0.0 144.2

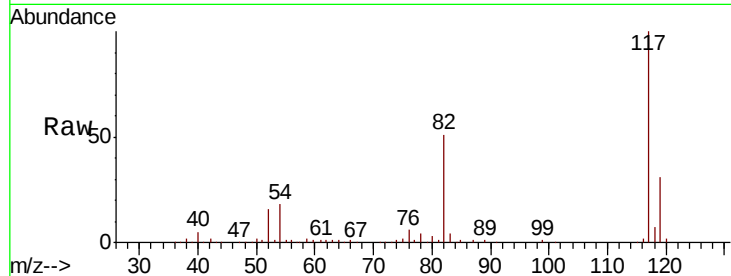




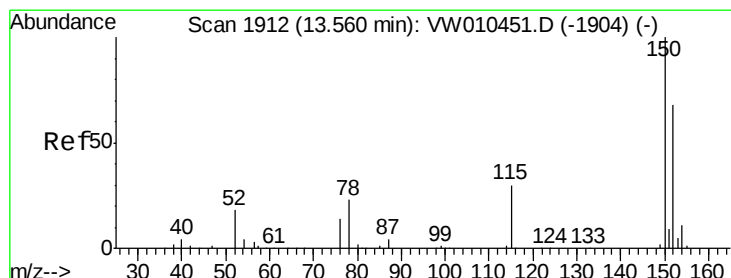
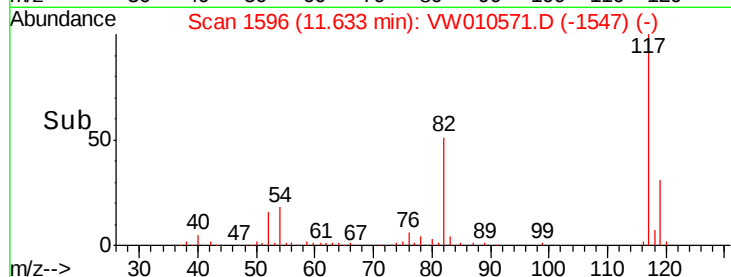
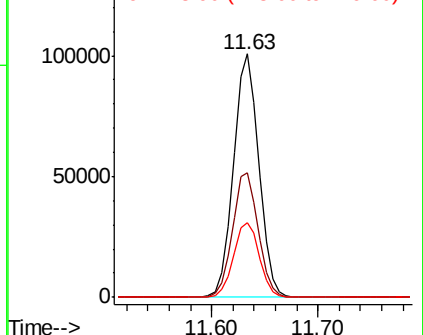
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW010571.D  
Acq: 28 May 2019 17:00

Instrument :  
MSVOA\_W  
ClientSampleId :  
B-16-1.5-2.0

Tot Ion:117 Resp: 168459  
Ion Ratio Lower Upper  
117 100  
82 51.4 42.8 64.2  
119 30.9 26.3 39.5

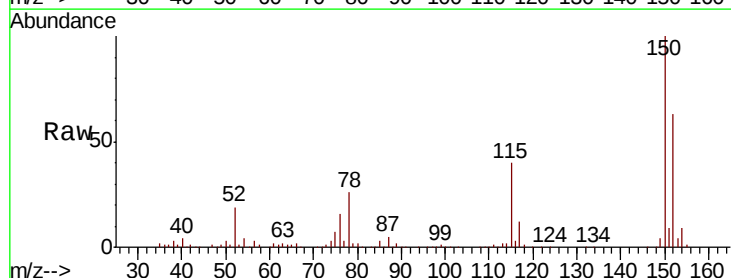


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

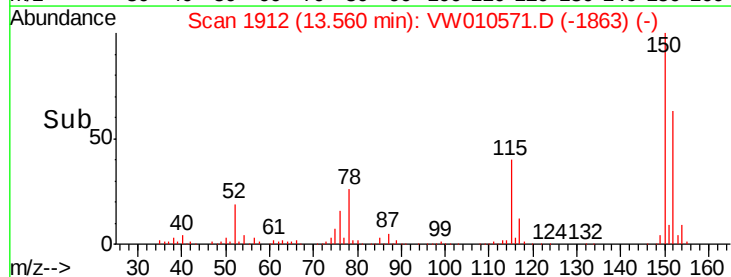
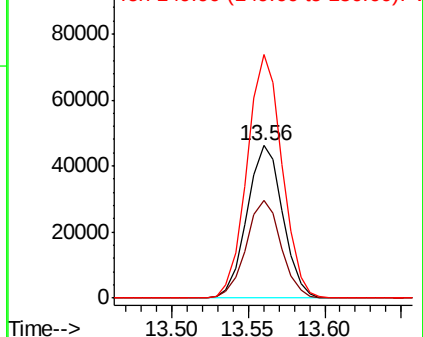


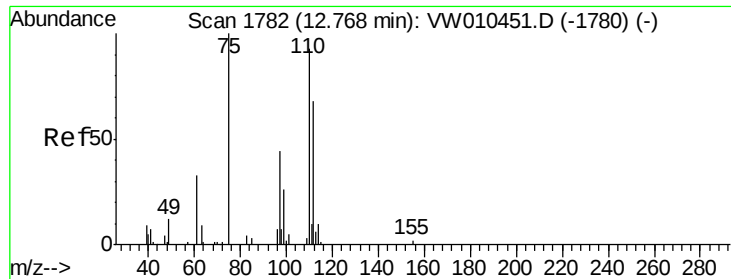
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW010571.D  
Acq: 28 May 2019 17:00

Tgt Ion:152 Resp: 74937  
Ion Ratio Lower Upper  
152 100  
115 62.6 30.3 91.0  
150 157.2 0.0 349.8



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: 52.029 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010571.D

Acq: 28 May 2019 17:00

Instrument :

MSVOA\_W

ClientSampled :

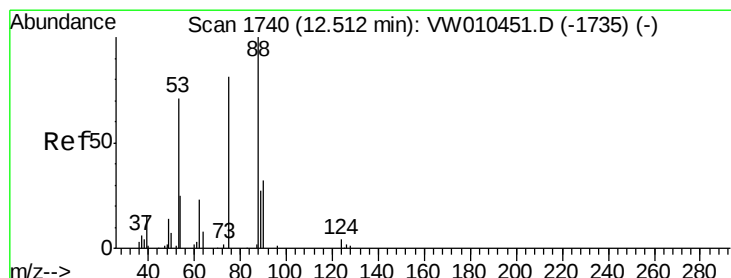
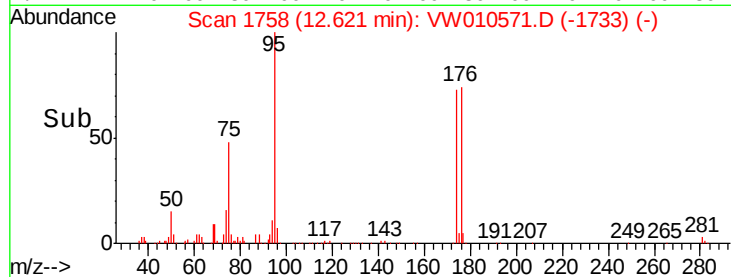
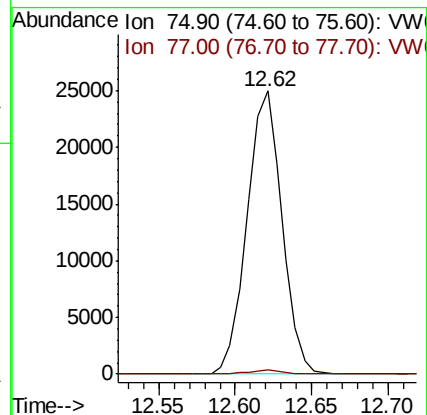
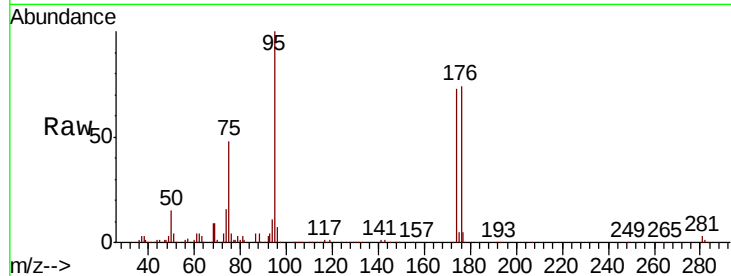
B-16-1.5-2.0

Tot Ion: 75 Resp: 39576

Ion Ratio Lower Upper

75 100

77 1.2 170.0 510.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 108.585 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010571.D

Acq: 28 May 2019 17:00

Tgt Ion: 75 Resp: 39576

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.8#

89 0.2 39.5 59.3#

