

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\  
 Data File : VD063158.D  
 Acq On : 19 Jul 2019 17:15  
 Operator : VA/AP  
 Sample : K3903-02RE  
 Misc : 5.66g/5ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 18107-NYCT-AVE-Z-TP-2RE

Quant Time: Jul 20 05:01:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D071519S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 16 08:11:56 2019  
 Response via : Initial Calibration

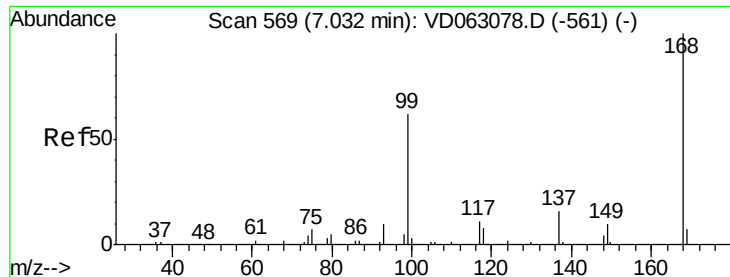
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 775946   | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 989503   | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 812031   | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 393431   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 362855   | 37.54 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 75.08% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 371476   | 37.69 | ug/l   | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 75.38% |          |
| 50) Toluene-d8              | 10.41 | 98   | 694752   | 32.82 | ug/l   | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 65.64% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 289887   | 29.60 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 59.20% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.59  | 85   | 391      | Below Cal | #      | 43     |
| 3) Chloromethane               | 1.78  | 50   | 238      | Below Cal | #      | 48     |
| 5) Bromomethane                | 2.13  | 94   | 1117     | Below Cal | #      | 13     |
| 11) Tert butyl alcohol         | 4.06  | 59   | 1331     | 2.386     | ug/l # | 77     |
| 13) Acrolein                   | 3.01  | 56   | 664      | 3.944     | ug/l # | 80     |
| 16) Acetone                    | 3.22  | 43   | 50003    | 21.418    | ug/l # | 92     |
| 18) Methyl Acetate             | 3.65  | 43   | 1742     | Below Cal | #      | 63     |
| 20) Methylene Chloride         | 3.81  | 84   | 12830    | 1.455     | ug/l # | 85     |
| 25) 2-Butanone                 | 6.08  | 43   | 9466     | 4.246     | ug/l # | 76     |
| 31) Cyclohexane                | 7.05  | 56   | 15508    | 1.685     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.05  | 75   | 60103    | 5.401     | ug/l # | 46     |
| 37) Ethyl Acetate              | 6.16  | 43   | 5051     | 1.061     | ug/l # | 28     |
| 38) Carbon Tetrachloride       | 7.05  | 117  | 78488    | 4.641     | ug/l # | 12     |
| 76) 1,2,3-Trichloropropane     | 13.55 | 75   | 111224   | 18.378    | ug/l # | 44     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 131372   | 82.430    | ug/l # | 1      |

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

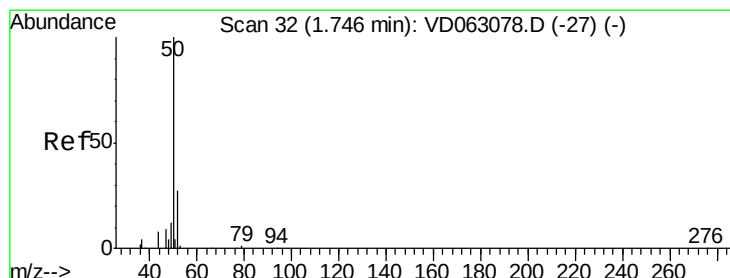
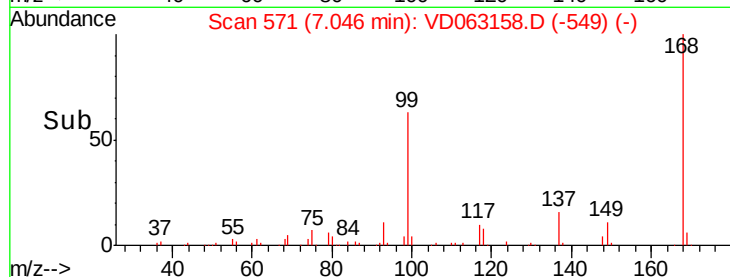
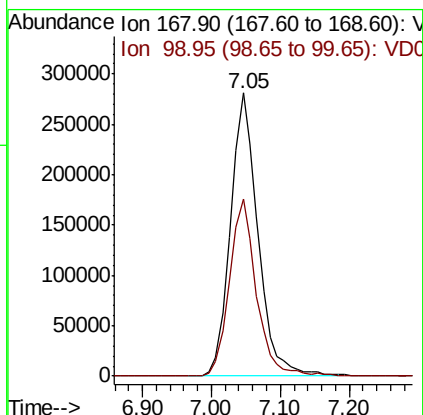
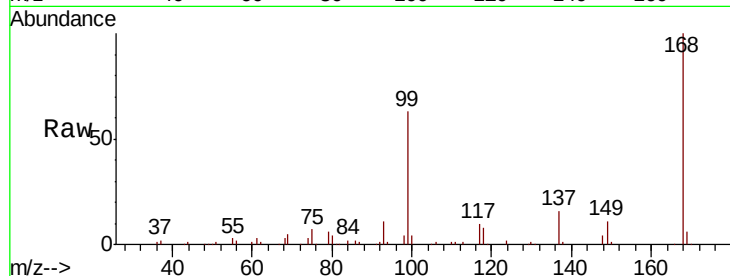




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.05 min Scan# 571  
Delta R.T. 0.01 min  
Lab File: VD063158.D  
Acq: 19 Jul 2019 17:15

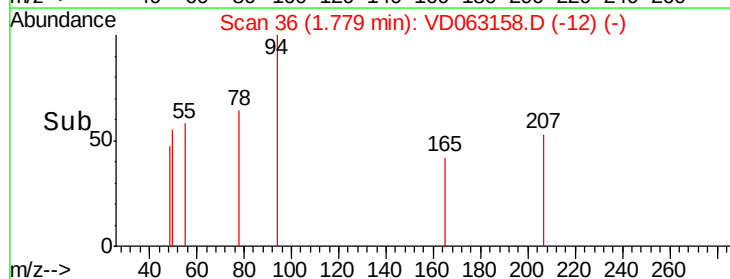
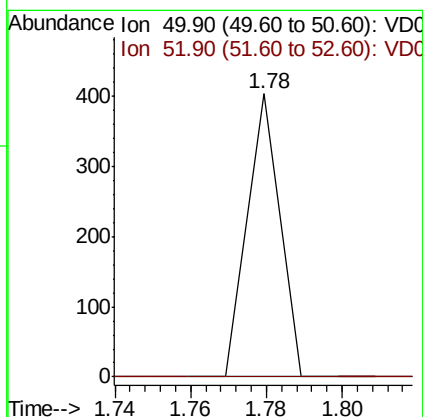
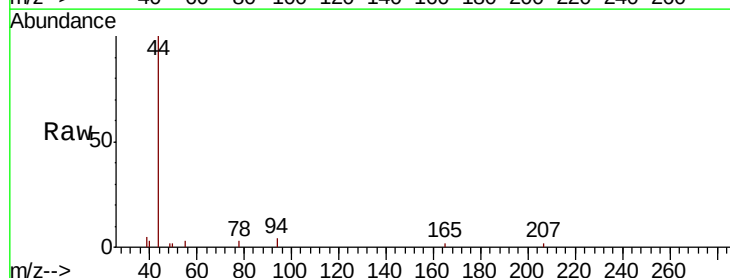
Instrument :  
MSVOA\_D  
ClientSampleId :  
18107-NYCT-AVE-Z-TP-2RE

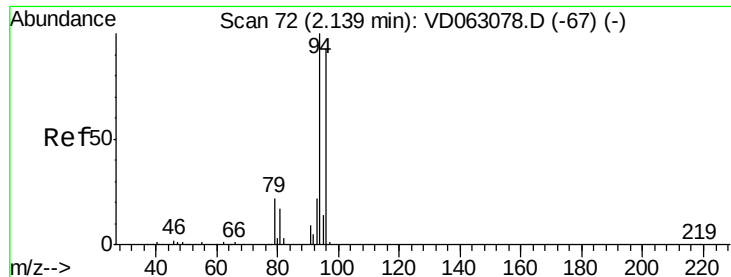
Tot Ion:168 Resp: 775946  
Ion Ratio Lower Upper  
168 100  
99 62.7 50.8 76.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.78 min Scan# 36  
Delta R.T. 0.03 min  
Lab File: VD063158.D  
Acq: 19 Jul 2019 17:15

Tgt Ion: 50 Resp: 238  
Ion Ratio Lower Upper  
50 100  
52 0.0 21.4 32.2#





#5

Bromomethane

Concen: Below Cal

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063158.D

Acq: 19 Jul 2019 17:15

Instrument :

MSVOA\_D

ClientSampleId :

18107-NYCT-AVE-Z-TP-2RE

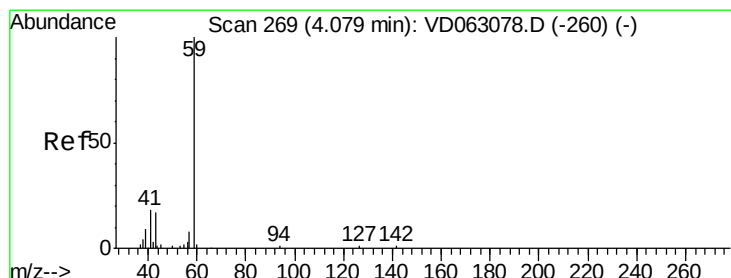
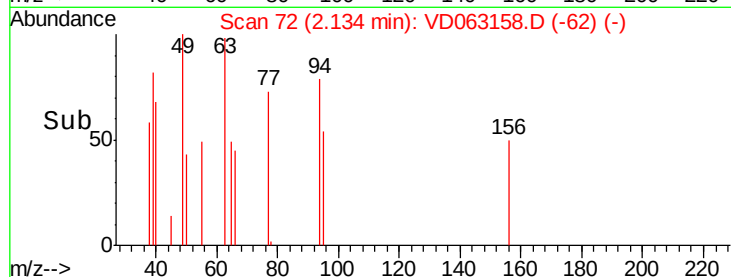
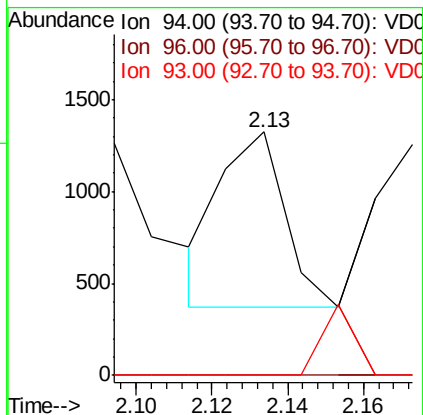
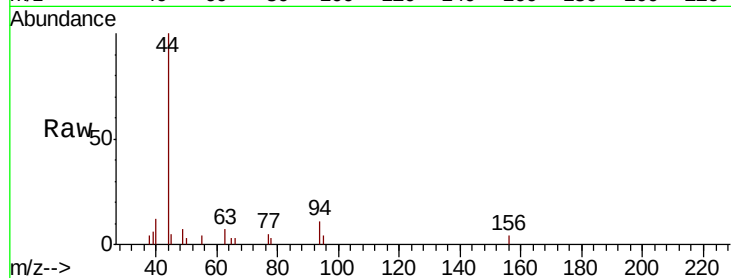
Tot Ion: 94 Resp: 1117

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



#11

Tert butyl alcohol

Concen: 2.386 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.02 min

Lab File: VD063158.D

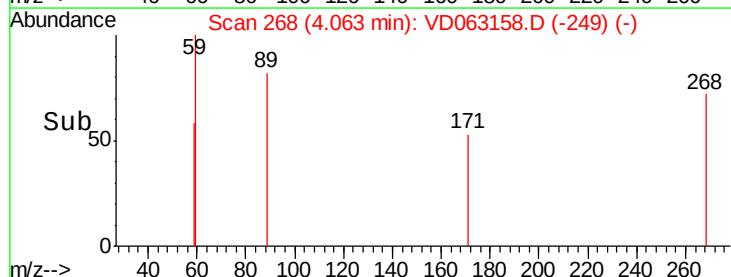
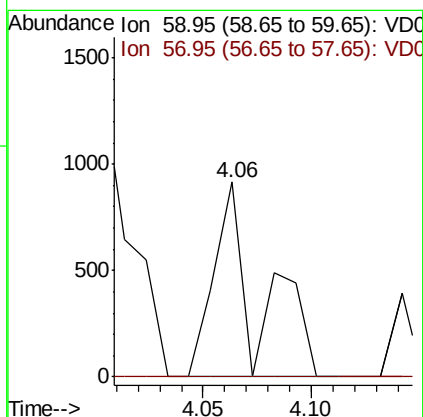
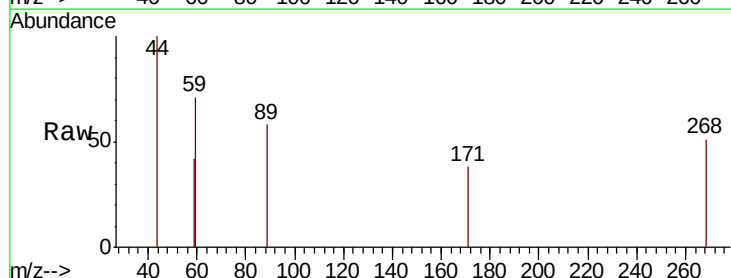
Acq: 19 Jul 2019 17:15

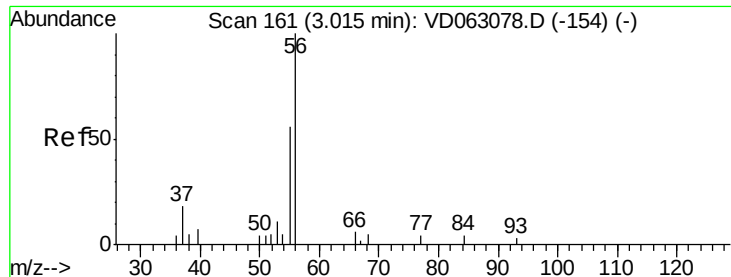
Tgt Ion: 59 Resp: 1331

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#13

Acrolein

Concen: 3.944 ug/l

RT: 3.01 min Scan# 161

Delta R.T. -0.01 min

Lab File: VD063158.D

Acq: 19 Jul 2019 17:15

Instrument :

MSVOA\_D

ClientSampleId :

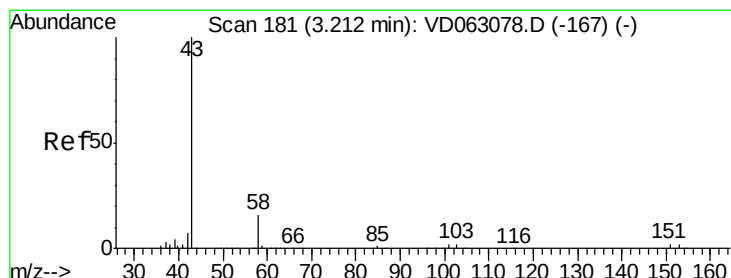
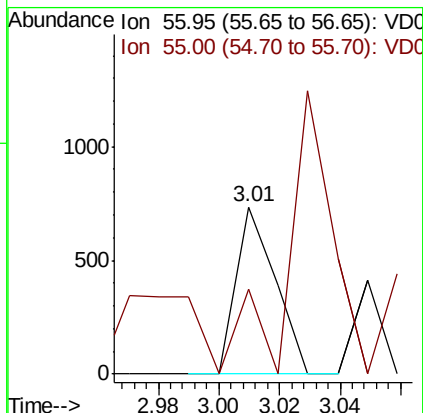
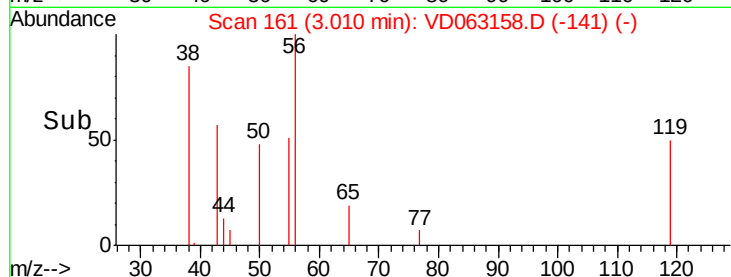
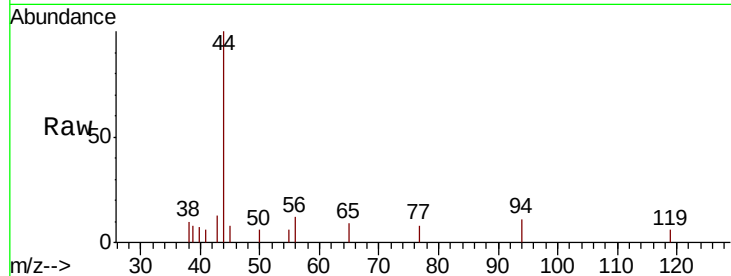
18107-NYCT-AVE-Z-TP-2RE

Tot Ion: 56 Resp: 664

Ion Ratio Lower Upper

56 100

55 50.6 53.0 79.4#



#16

Acetone

Concen: 21.418 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063158.D

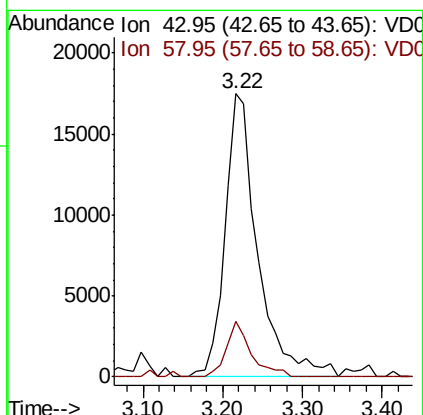
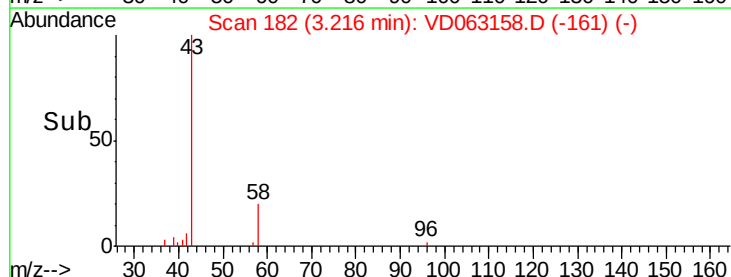
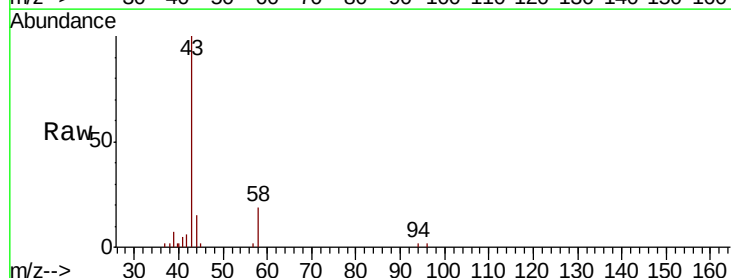
Acq: 19 Jul 2019 17:15

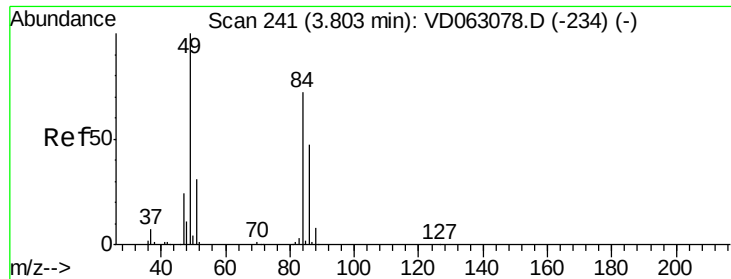
Tgt Ion: 43 Resp: 50003

Ion Ratio Lower Upper

43 100

58 19.5 13.0 19.4#

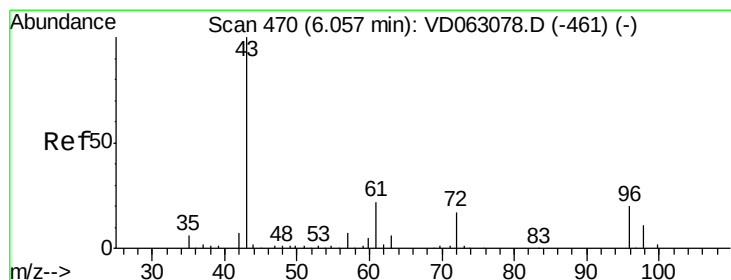
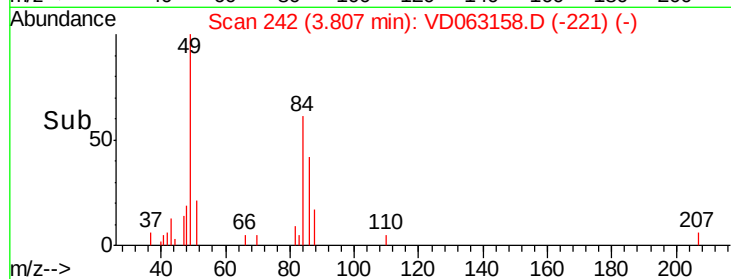
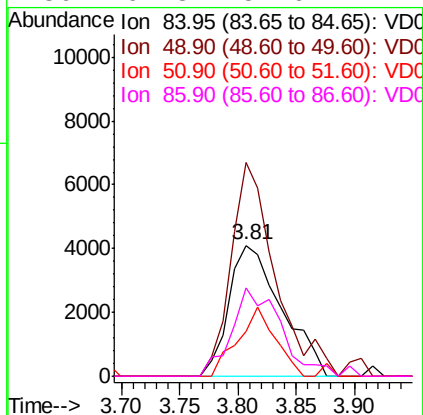
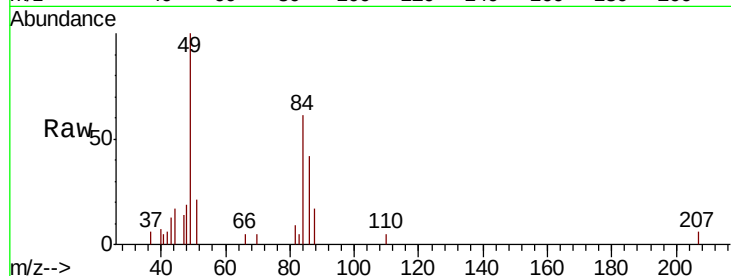




#20  
Methylene Chloride  
Concen: 1.455 ug/l  
RT: 3.81 min Scan# 242  
Delta R.T. 0.00 min  
Lab File: VD063158.D  
Acq: 19 Jul 2019 17:15

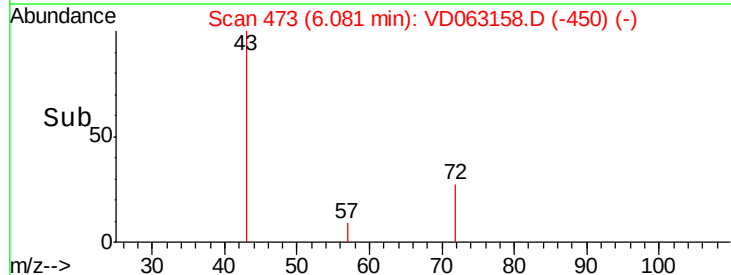
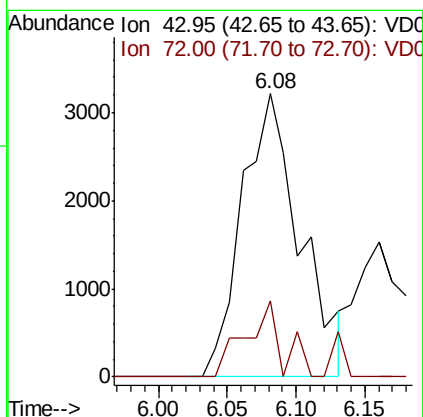
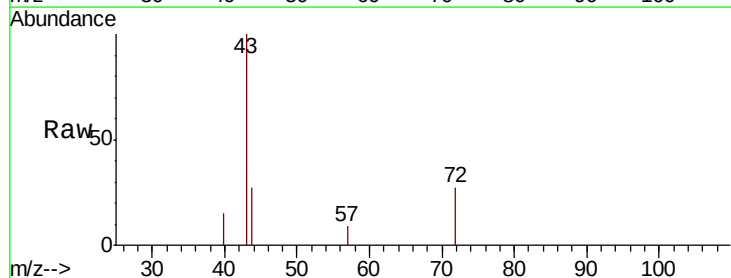
Instrument :  
MSVOA\_D  
ClientSampleId :  
18107-NYCT-AVE-Z-TP-2RE

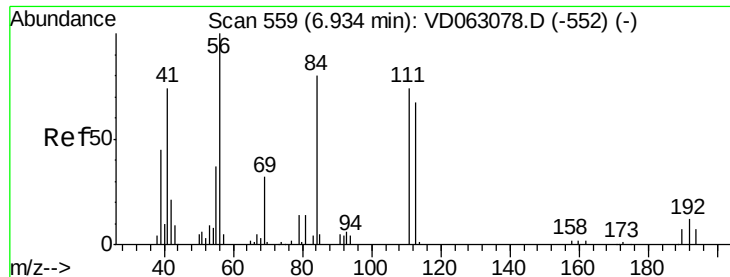
Tot Ion: 84 Resp: 12830  
Ion Ratio Lower Upper  
84 100  
49 163.0 110.5 165.7  
51 34.0 34.6 51.8#  
86 67.8 51.6 77.4



#25  
2-Butanone  
Concen: 4.246 ug/l  
RT: 6.08 min Scan# 473  
Delta R.T. 0.02 min  
Lab File: VD063158.D  
Acq: 19 Jul 2019 17:15

Tgt Ion: 43 Resp: 9466  
Ion Ratio Lower Upper  
43 100  
72 27.1 13.4 20.0#

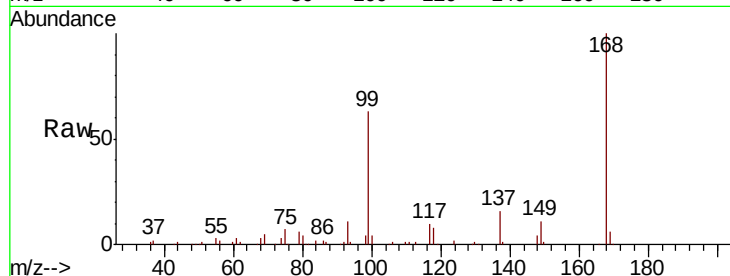




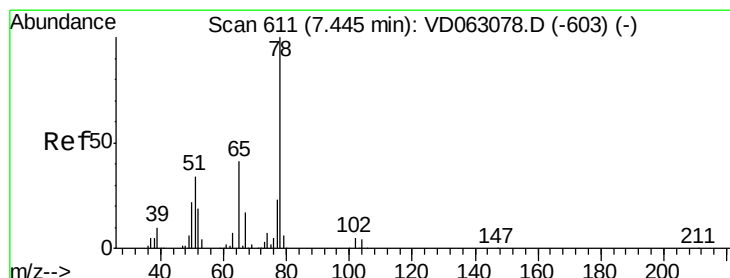
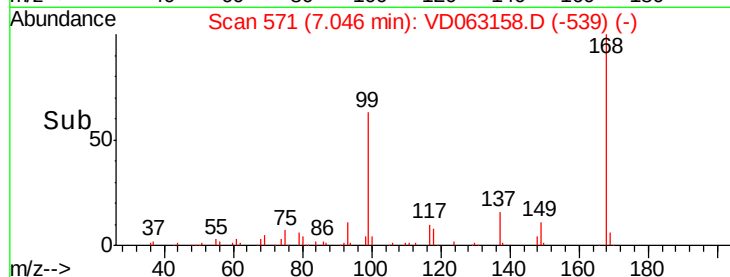
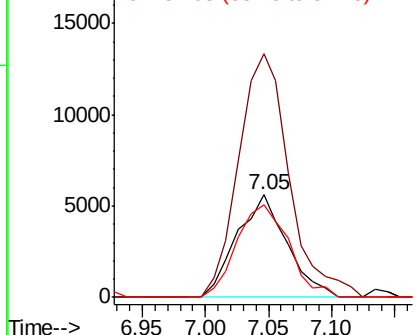
#31  
Cyclohexane  
Concen: 1.685 ug/l  
RT: 7.05 min Scan# 571  
Delta R.T. 0.11 min  
Lab File: VD063158.D  
Acq: 19 Jul 2019 17:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
18107-NYCT-AVE-Z-TP-2RE

Tot Ion: 56 Resp: 15508  
Ion Ratio Lower Upper  
56 100  
69 237.4 25.3 37.9#  
84 89.9 64.2 96.4

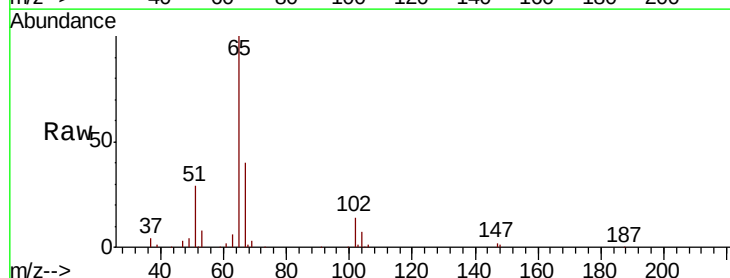


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

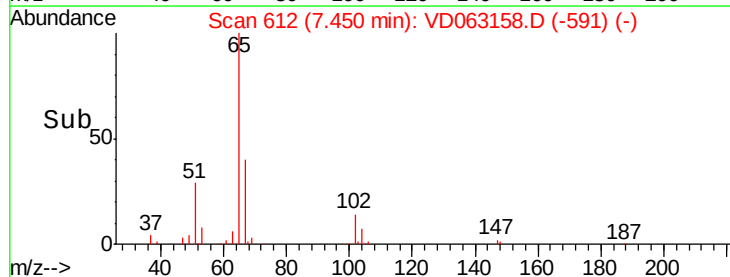
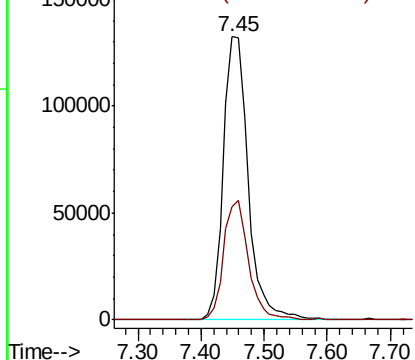


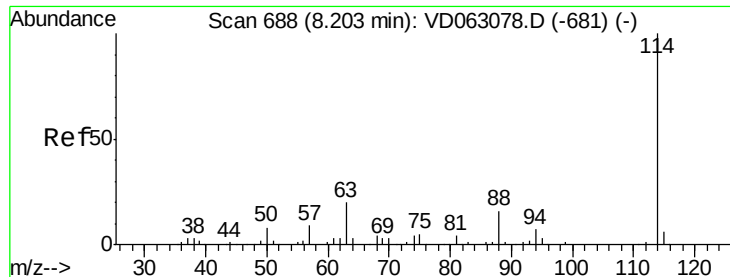
#33  
1,2-Dichloroethane-d4  
Concen: 37.540 ug/l  
RT: 7.45 min Scan# 612  
Delta R.T. 0.00 min  
Lab File: VD063158.D  
Acq: 19 Jul 2019 17:15

Tgt Ion: 65 Resp: 362855  
Ion Ratio Lower Upper  
65 100  
67 40.1 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

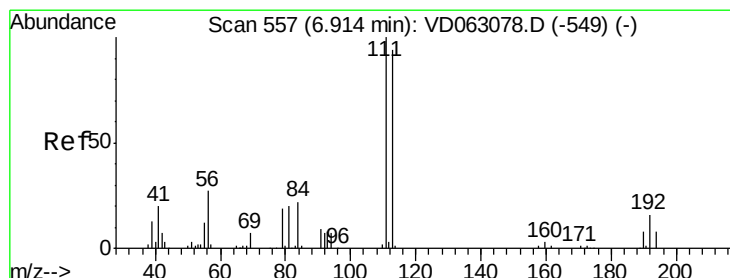
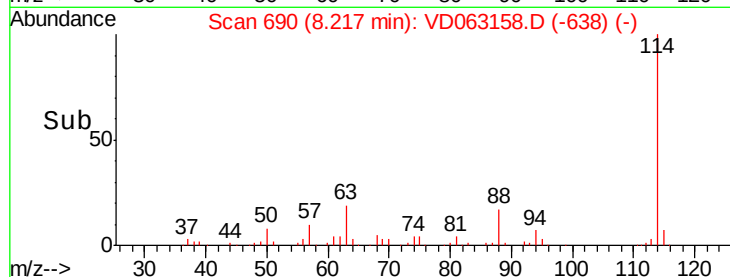
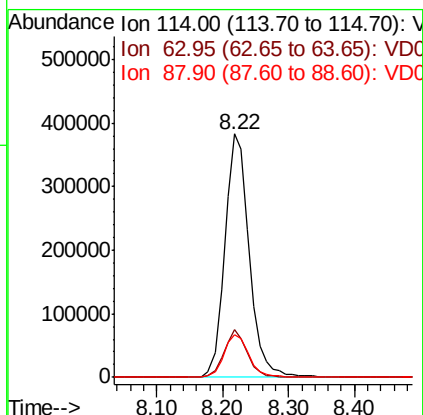
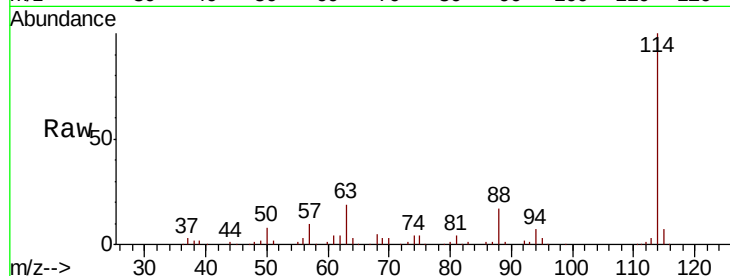




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.22 min Scan# 690  
 Delta R.T. 0.01 min  
 Lab File: VD063158.D  
 Acq: 19 Jul 2019 17:15

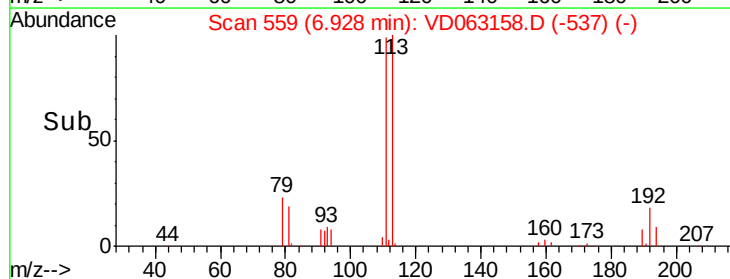
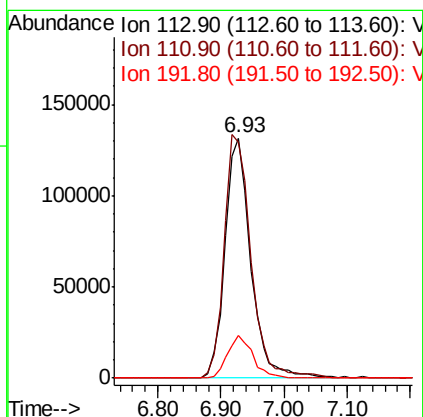
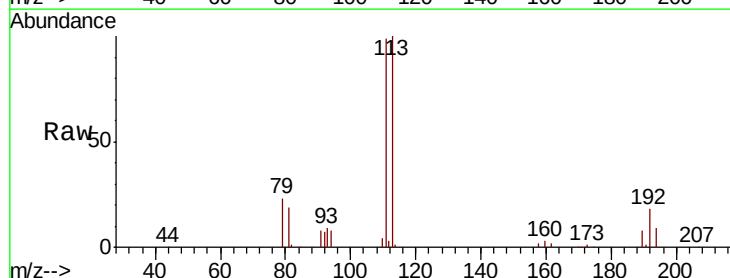
Instrument :  
 MSVOA\_D  
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 18107-NYCT-AVE-Z-TP-2RE

Tot Ion:114 Resp: 989503  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 40.6  
 88 17.5 0.0 32.6

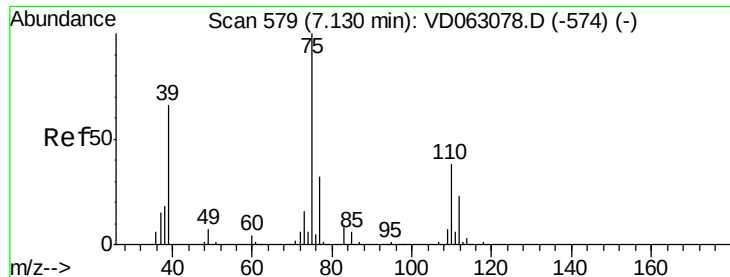


#35  
 Dibromofluoromethane  
 Concen: 37.692 ug/l  
 RT: 6.93 min Scan# 559  
 Delta R.T. 0.01 min  
 Lab File: VD063158.D  
 Acq: 19 Jul 2019 17:15

Tgt Ion:113 Resp: 371476  
 Ion Ratio Lower Upper  
 113 100  
 111 98.6 84.8 127.2  
 192 17.8 13.4 20.0



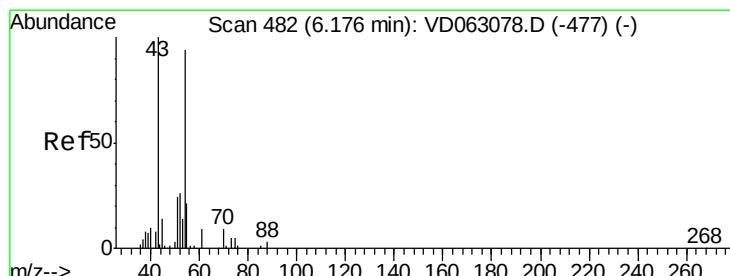
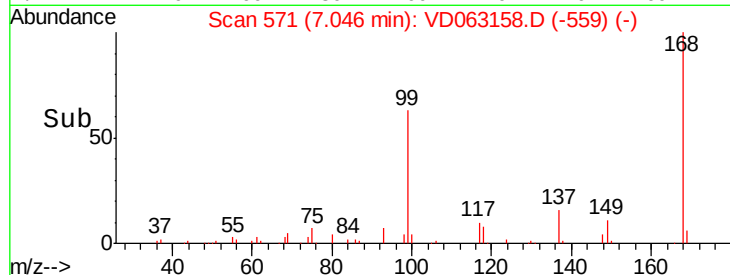
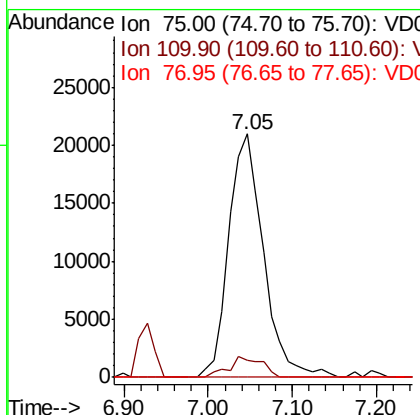
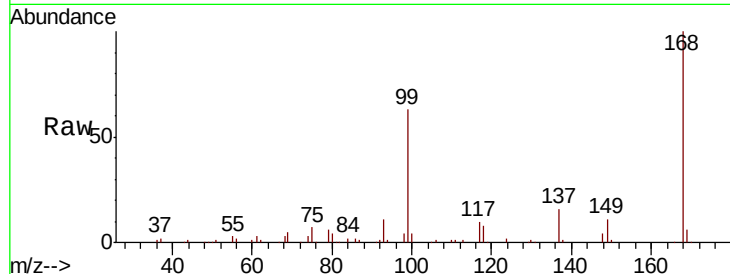




#36  
 1,1-Dichloropropene  
 Concen: 5.401 ug/l  
 RT: 7.05 min Scan# 571  
 Delta R.T. -0.08 min  
 Lab File: VD063158.D  
 Acq: 19 Jul 2019 17:15

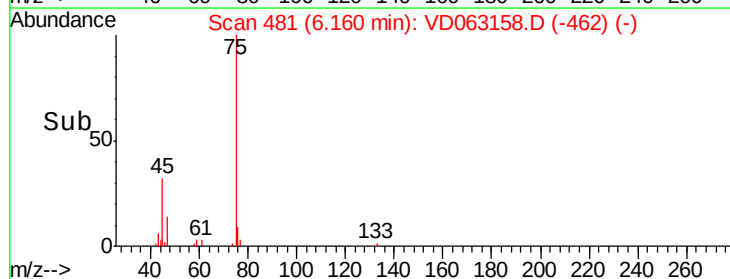
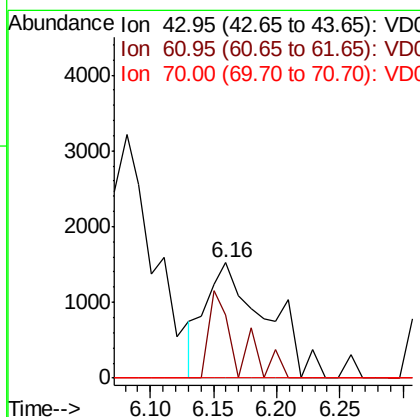
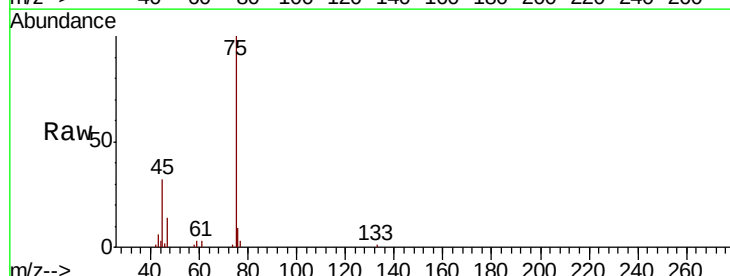
Instrument :  
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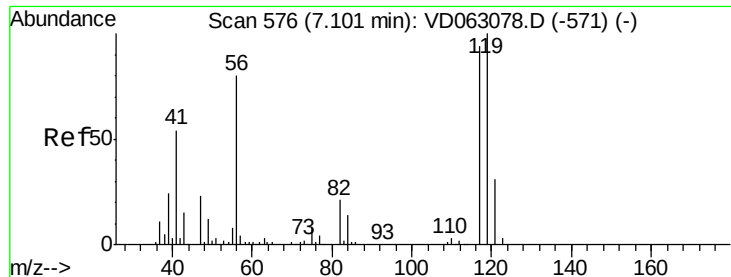
Tot Ion: 75 Resp: 60103  
 Ion Ratio Lower Upper  
 75 100  
 110 7.1 18.9 56.5#  
 77 0.0 25.2 37.8#



#37  
 Ethyl Acetate  
 Concen: 1.061 ug/l  
 RT: 6.16 min Scan# 481  
 Delta R.T. -0.02 min  
 Lab File: VD063158.D  
 Acq: 19 Jul 2019 17:15

Tgt Ion: 43 Resp: 5051  
 Ion Ratio Lower Upper  
 43 100  
 61 54.5 10.6 16.0#  
 70 0.0 6.6 9.8#

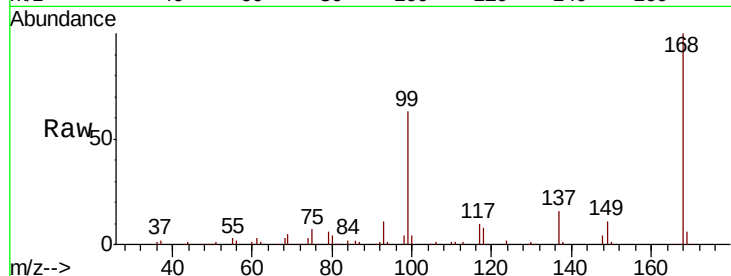




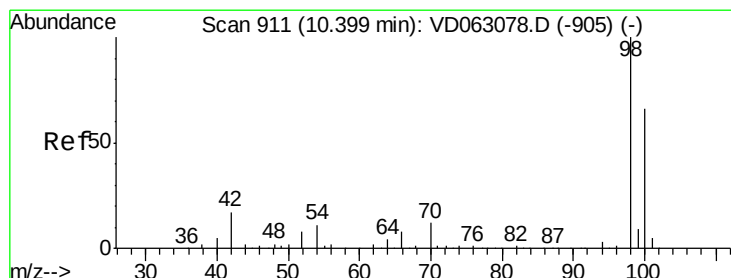
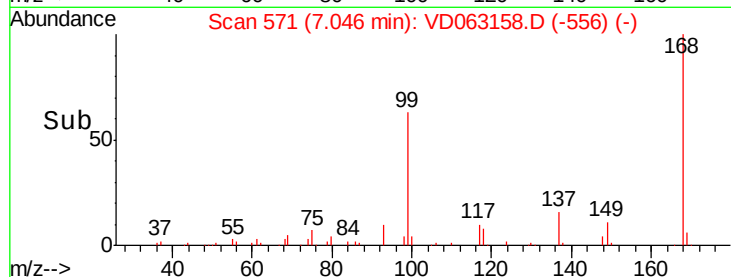
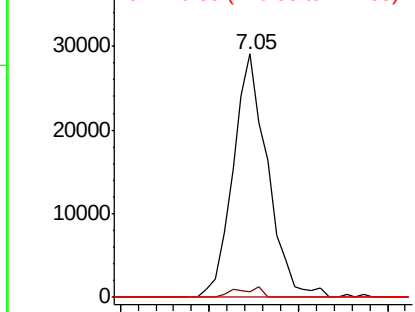
#38  
Carbon Tetrachloride  
Concen: 4.641 ug/l  
RT: 7.05 min Scan# 571  
Delta R.T. -0.05 min  
Lab File: VD063158.D  
Acq: 19 Jul 2019 17:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
18107-NYCT-AVE-Z-TP-2RE

Tot Ion:117 Resp: 78488  
Ion Ratio Lower Upper  
117 100  
119 2.2 80.0 120.0#  
121 0.0 25.0 37.4#

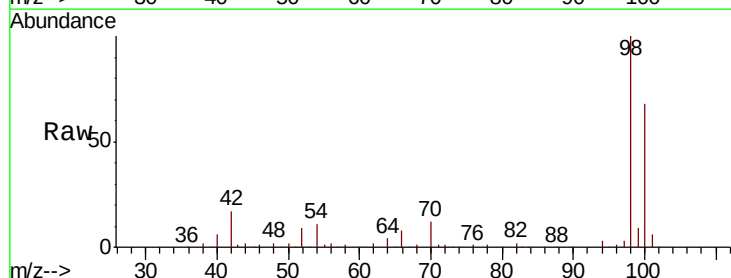


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

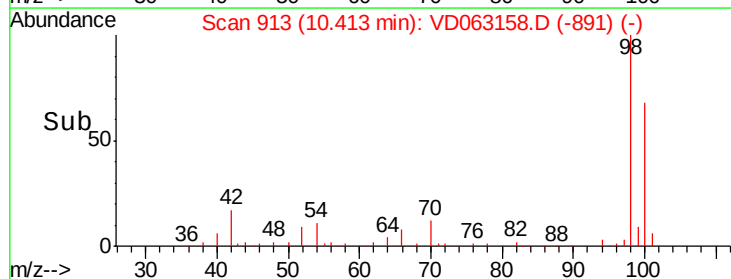
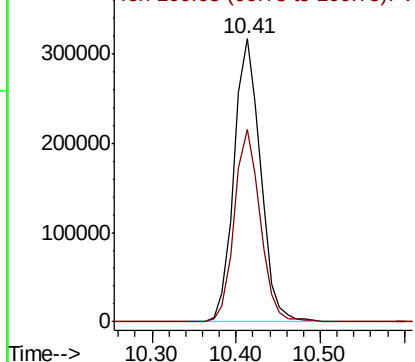


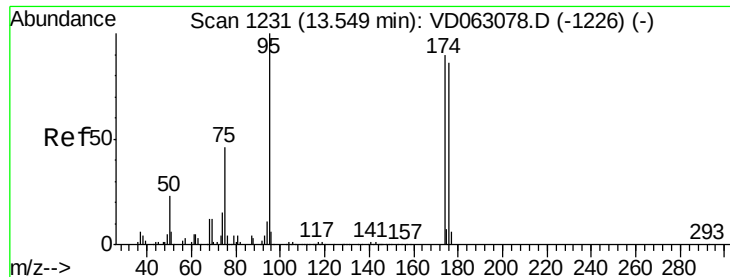
#50  
Toluene-d8  
Concen: 32.818 ug/l  
RT: 10.41 min Scan# 913  
Delta R.T. 0.01 min  
Lab File: VD063158.D  
Acq: 19 Jul 2019 17:15

Tgt Ion: 98 Resp: 694752  
Ion Ratio Lower Upper  
98 100  
100 68.1 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): V  
Ion 100.05 (99.75 to 100.75): V

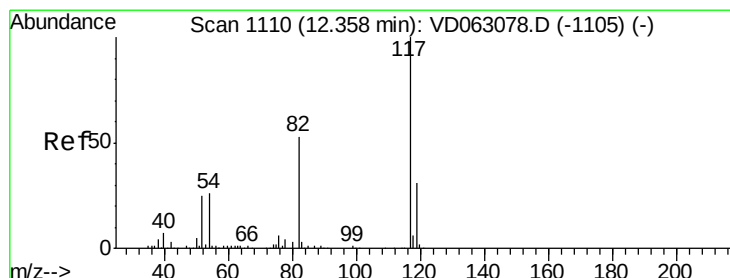
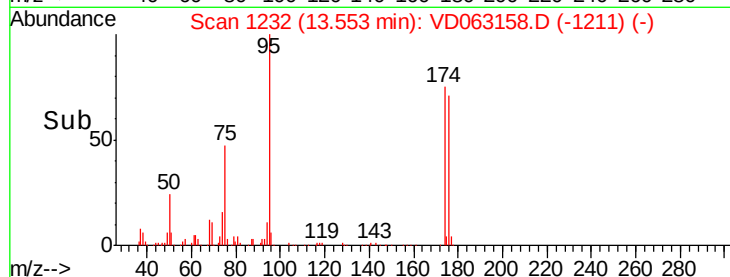
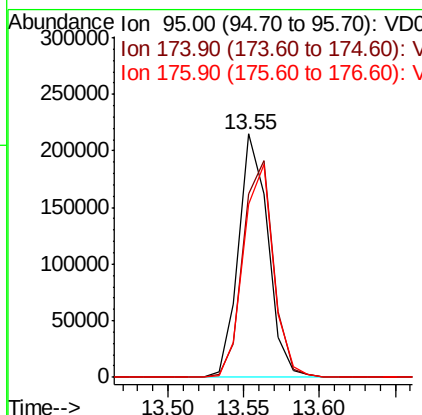
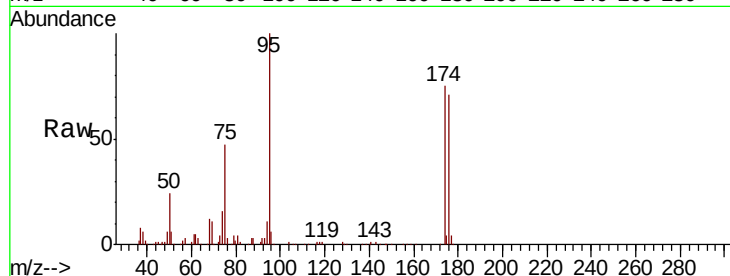




#62  
4-Bromofluorobenzene  
Concen: 29.598 ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. 0.00 min  
Lab File: VD063158.D  
Acq: 19 Jul 2019 17:15

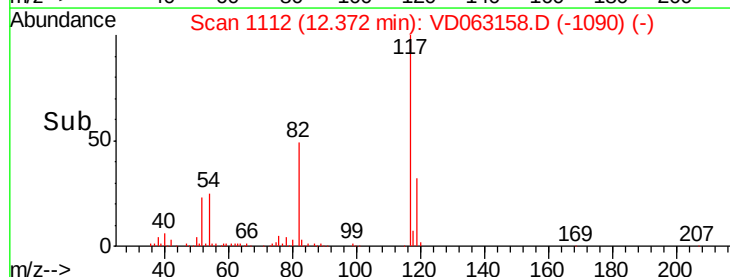
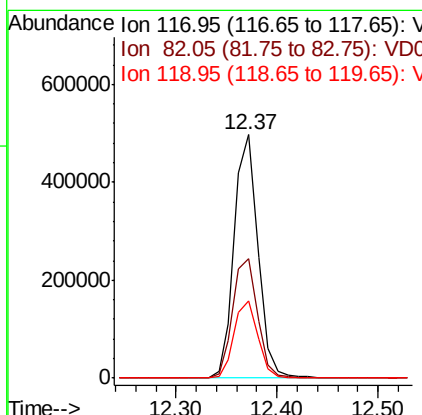
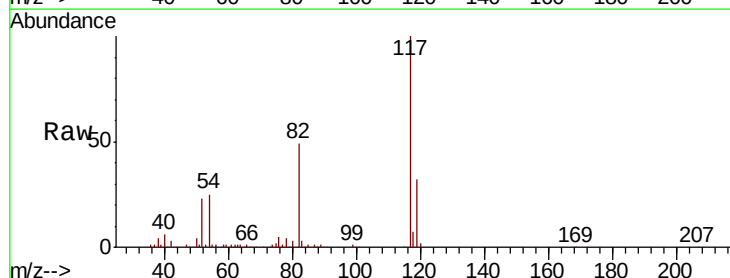
Instrument :  
MSVOA\_D  
ClientSampleId :  
18107-NYCT-AVE-Z-TP-2RE

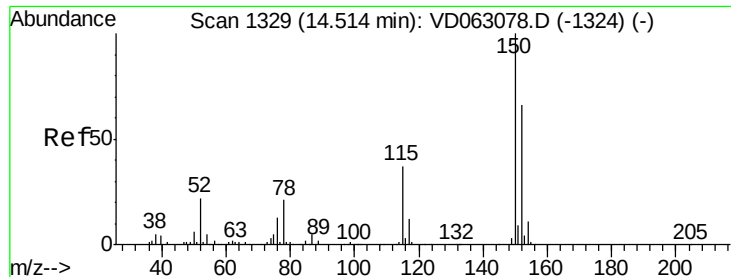
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 75.5  | 0.0   | 180.6 |
| 176     | 71.0  | 0.0   | 172.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VD063158.D  
Acq: 19 Jul 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 49.2  | 42.3  | 63.5  |
| 119     | 31.8  | 25.2  | 37.8  |

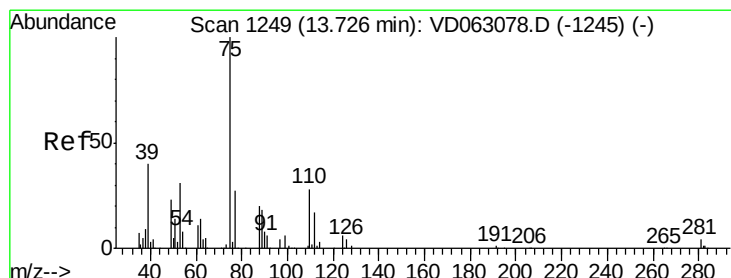
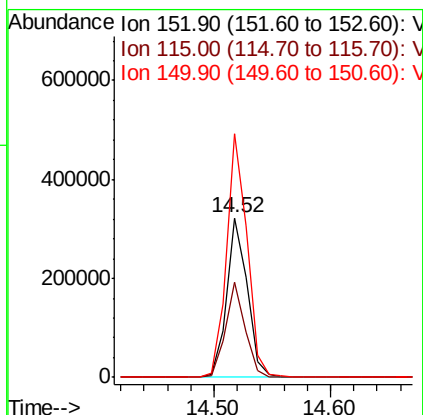
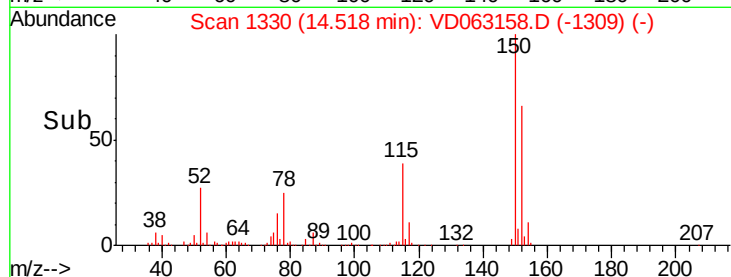
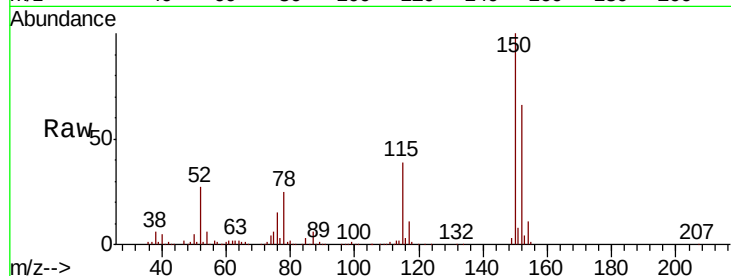




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 14.52 min Scan# 1330  
 Delta R.T. 0.00 min  
 Lab File: VD063158.D  
 Acq: 19 Jul 2019 17:15

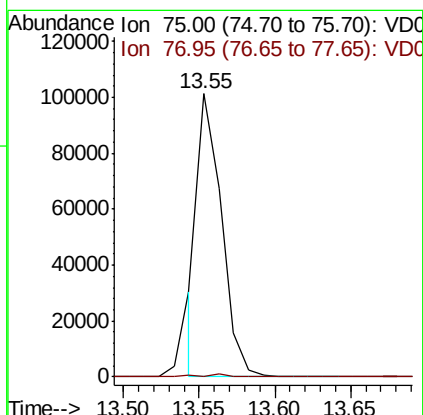
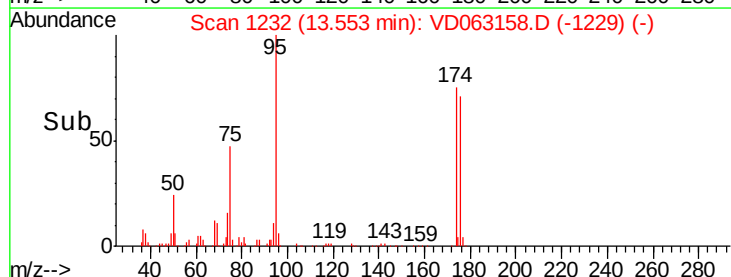
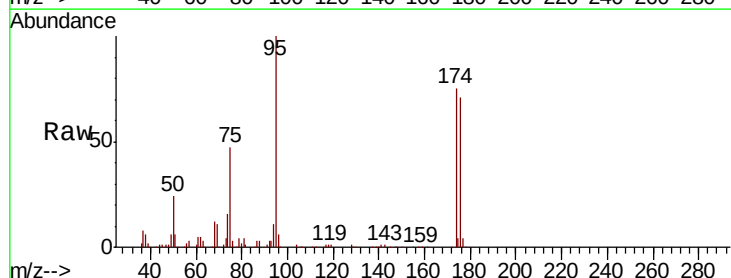
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 18107-NYCT-AVE-Z-TP-2RE

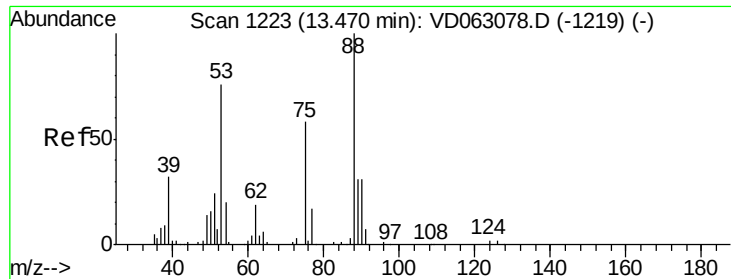
Tot Ion:152 Resp: 393431  
 Ion Ratio Lower Upper  
 152 100  
 115 59.8 28.9 86.8  
 150 152.6 0.0 313.8



#76  
 1,2,3-Trichloropropane  
 Concen: 18.378 ug/l  
 RT: 13.55 min Scan# 1232  
 Delta R.T. -0.17 min  
 Lab File: VD063158.D  
 Acq: 19 Jul 2019 17:15

Tgt Ion: 75 Resp: 111224  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 16.3 48.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 82.430 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063158.D

Acq: 19 Jul 2019 17:15

Instrument :

MSVOA\_D

ClientSampleId :

18107-NYCT-AVE-Z-TP-2RE

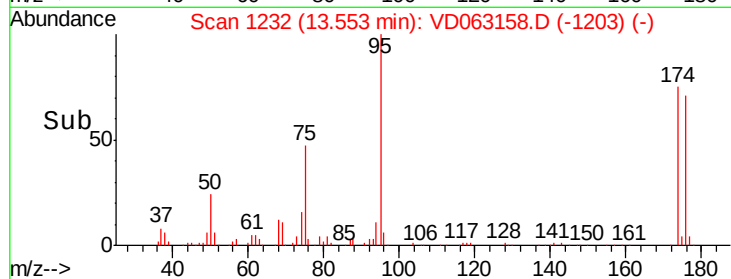
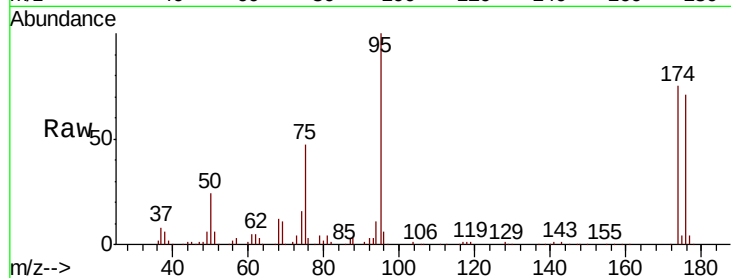
Tot Ion: 75 Resp: 131372

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

