

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052019\  
 Data File : VD062466.D  
 Acq On : 20 May 2019 19:58  
 Operator : FY/SY  
 Sample : K2894-20  
 Misc : 4.92g/5mL/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-01-11-12

Quant Time: May 21 03:40:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D052019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 21 03:32:39 2019  
 Response via : Initial Calibration

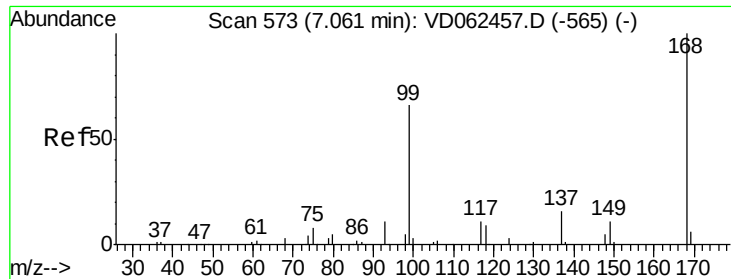
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.06  | 168  | 691378   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 964295   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 748442   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 356063   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.47  | 65   | 219730   | 29.69 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 59.38% |          |
| 35) Dibromofluoromethane    | 6.94  | 113  | 289946   | 33.33 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 66.66% |          |
| 50) Toluene-d8              | 10.42 | 98   | 619835   | 32.56 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 65.12% |          |
| 62) 4-Bromofluorobenzene    | 13.57 | 95   | 251051   | 30.15 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 60.30% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.57  | 85   | 202      | Below Cal | #      | 42     |
| 16) Acetone                    | 3.23  | 43   | 4487     | 3.383     | ug/l # | 50     |
| 20) Methylene Chloride         | 3.82  | 84   | 6556     | Below Cal | #      | 69     |
| 31) Cyclohexane                | 7.04  | 56   | 13606    | 1.947     | ug/l # | 21     |
| 36) 1,1-Dichloropropene        | 7.05  | 75   | 51576    | 5.594     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.06  | 117  | 68505    | 5.000     | ug/l # | 16     |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 105019   | 88.787    | ug/l # | 16     |

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

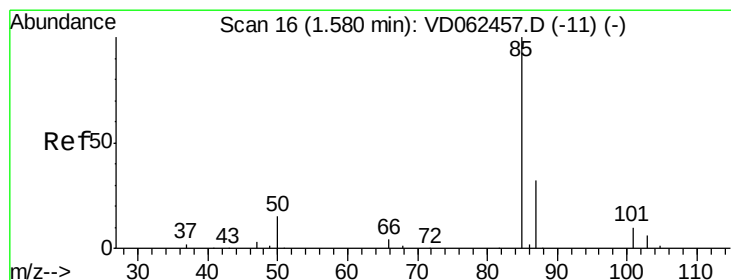
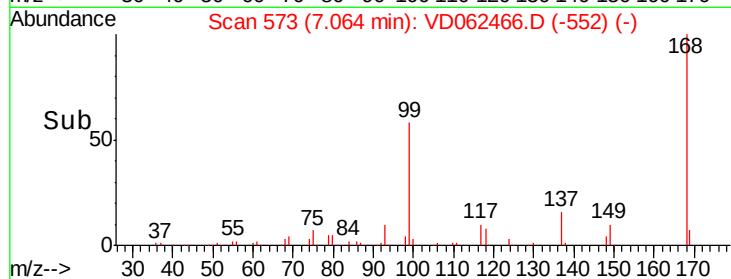
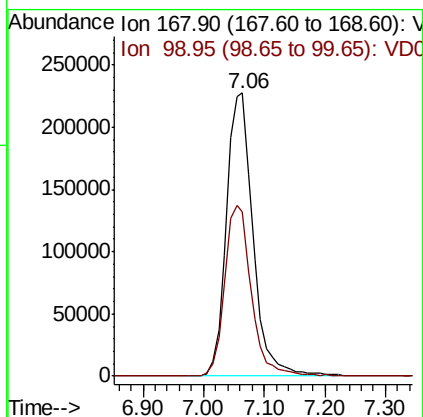
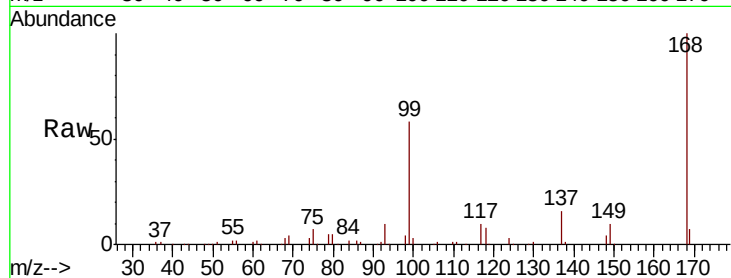




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.06 min Scan# 573  
Delta R.T. 0.00 min  
Lab File: VD062466.D  
Acq: 20 May 2019 19:58

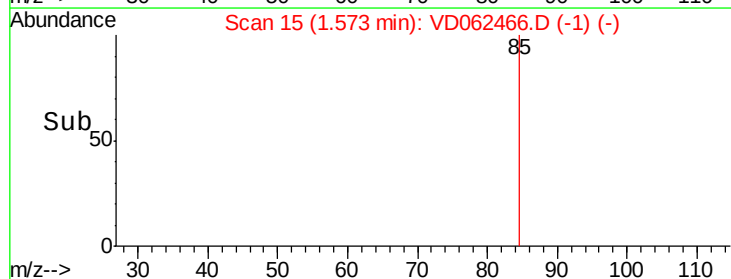
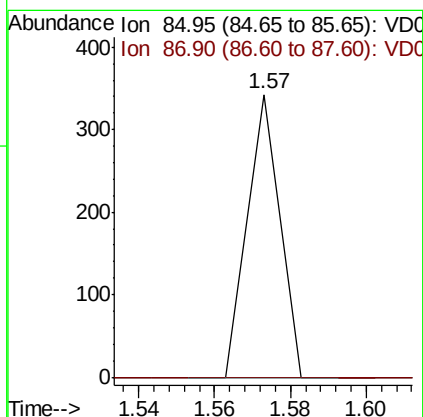
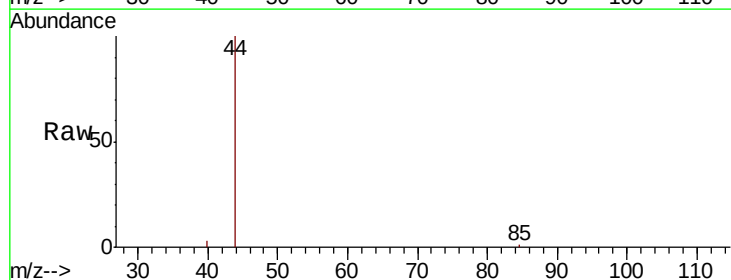
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-01-11-12

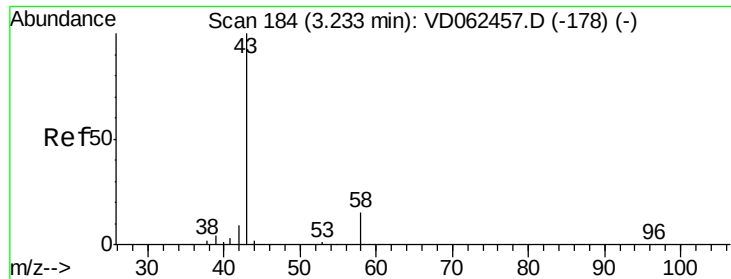
Tot Ion:168 Resp: 691378  
Ion Ratio Lower Upper  
168 100  
99 58.0 46.5 69.7



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.57 min Scan# 15  
Delta R.T. -0.01 min  
Lab File: VD062466.D  
Acq: 20 May 2019 19:58

Tgt Ion: 85 Resp: 202  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.2 48.6#





#16

Acetone

Concen: 3.383 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD062466.D

Acq: 20 May 2019 19:58

Instrument :

MSVOA\_D

ClientSampleId :

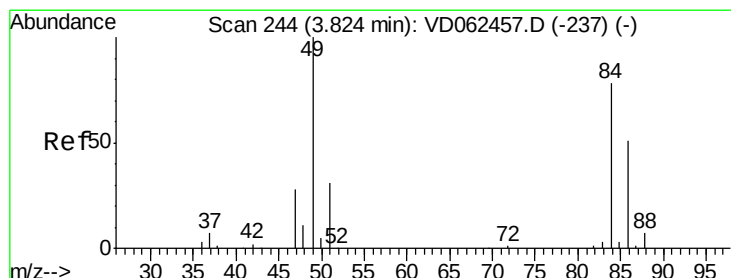
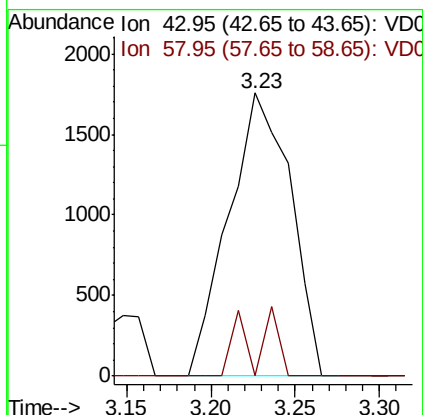
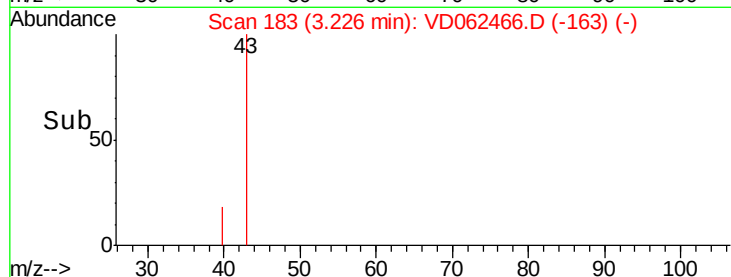
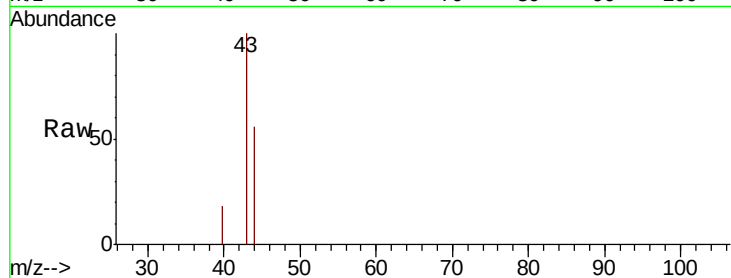
SB-01-11-12

Tot Ion: 43 Resp: 4487

Ion Ratio Lower Upper

43 100

58 0.0 19.9 29.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 3.82 min Scan# 243

Delta R.T. -0.01 min

Lab File: VD062466.D

Acq: 20 May 2019 19:58

Tgt Ion: 84 Resp: 6556

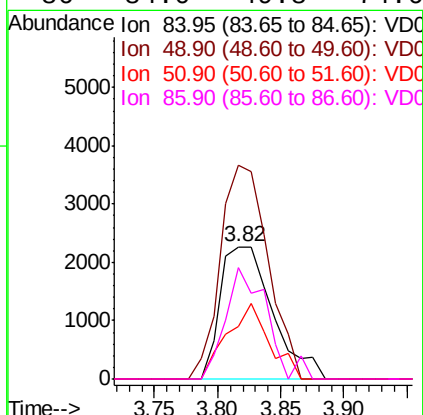
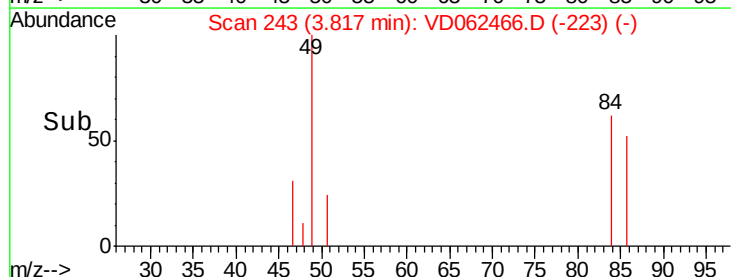
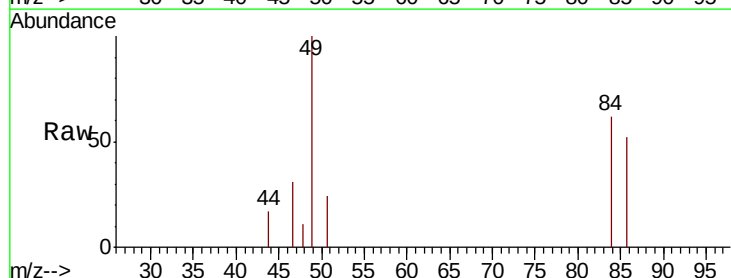
Ion Ratio Lower Upper

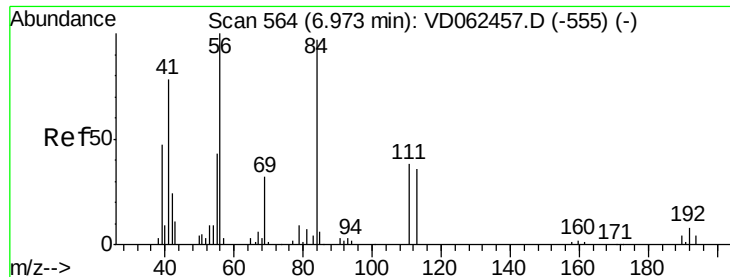
84 100

49 161.8 94.0 141.0#

51 39.4 29.0 43.4

86 84.0 49.8 74.6#

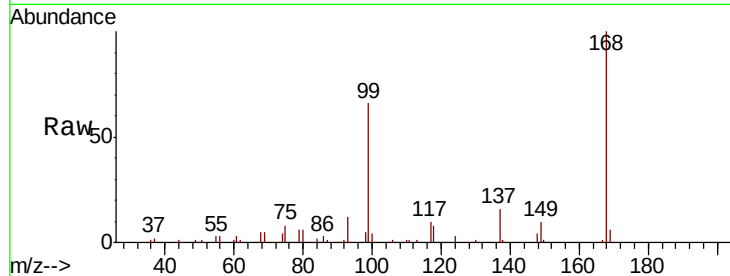




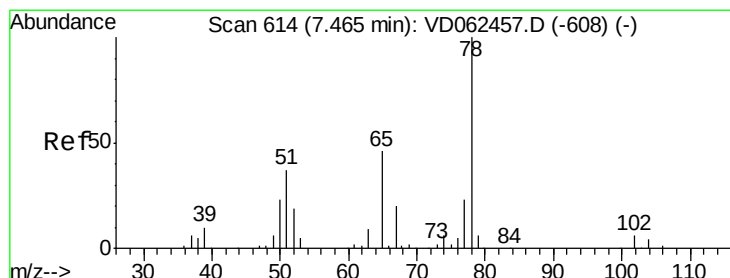
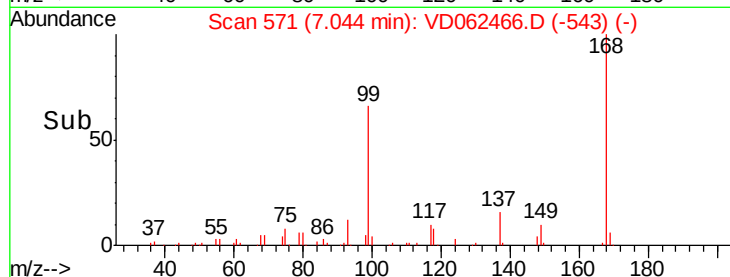
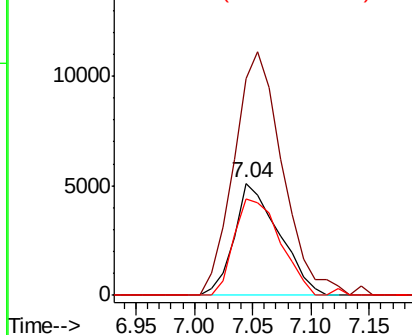
#31  
Cyclohexane  
Concen: 1.947 ug/l  
RT: 7.04 min Scan# 571  
Delta R.T. 0.07 min  
Lab File: VD062466.D  
Acq: 20 May 2019 19:58

Instrument :  
MSVOA\_D  
ClientSampled :  
SB-01-11-12

Tot Ion: 56 Resp: 13606  
Ion Ratio Lower Upper  
56 100  
69 192.4 25.8 38.6#  
84 85.3 72.2 108.4

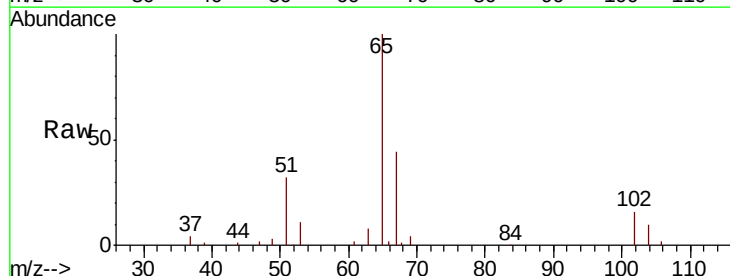


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

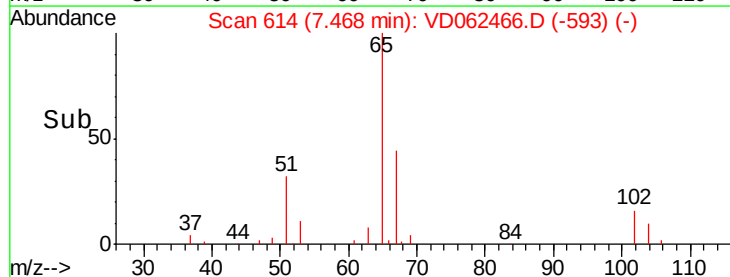
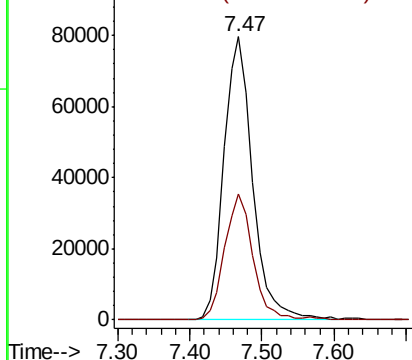


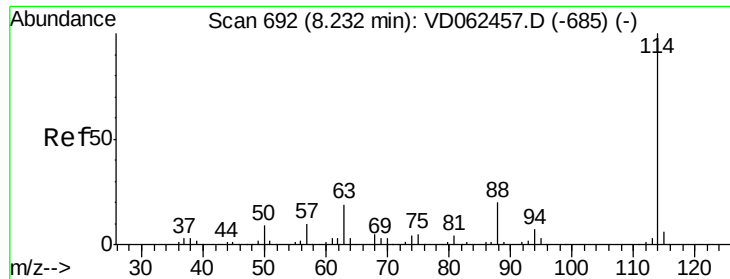
#33  
1,2-Dichloroethane-d4  
Concen: 29.690 ug/l  
RT: 7.47 min Scan# 614  
Delta R.T. 0.00 min  
Lab File: VD062466.D  
Acq: 20 May 2019 19:58

Tgt Ion: 65 Resp: 219730  
Ion Ratio Lower Upper  
65 100  
67 44.4 0.0 98.0



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

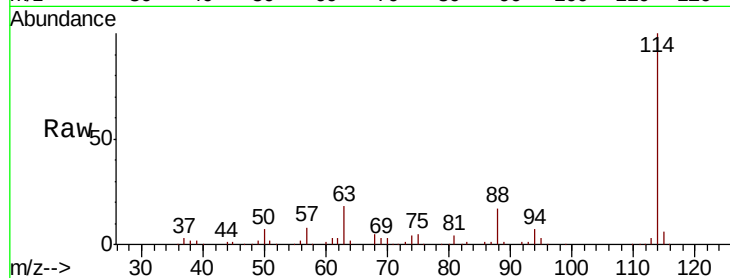




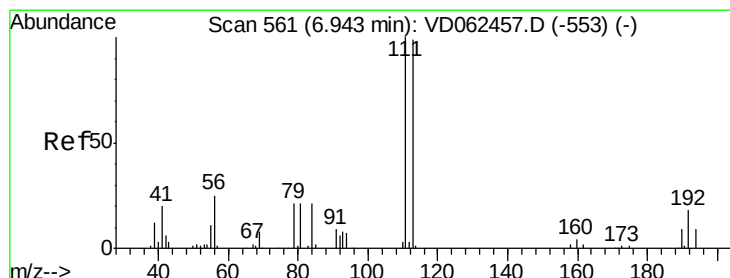
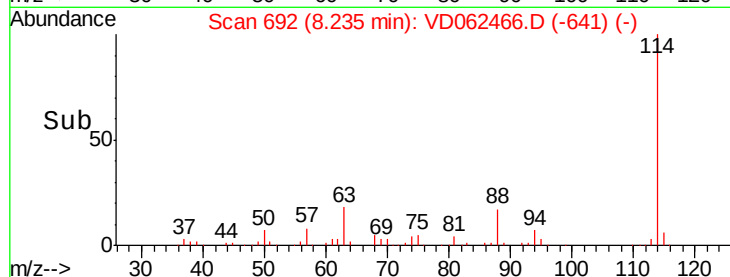
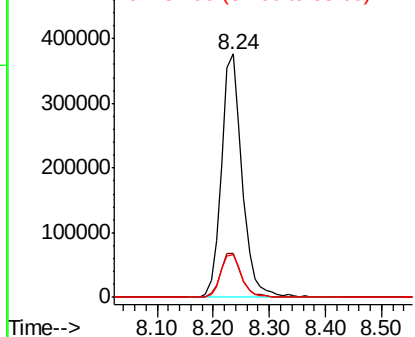
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.24 min Scan# 692  
 Delta R.T. 0.00 min  
 Lab File: VD062466.D  
 Acq: 20 May 2019 19:58

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-01-11-12

Tot Ion:114 Resp: 964295  
 Ion Ratio Lower Upper  
 114 100  
 63 18.1 0.0 32.4  
 88 17.3 0.0 33.6

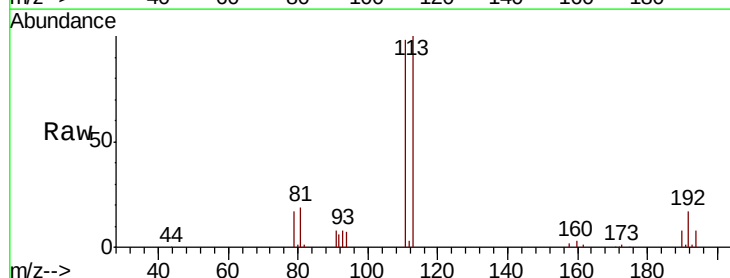


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

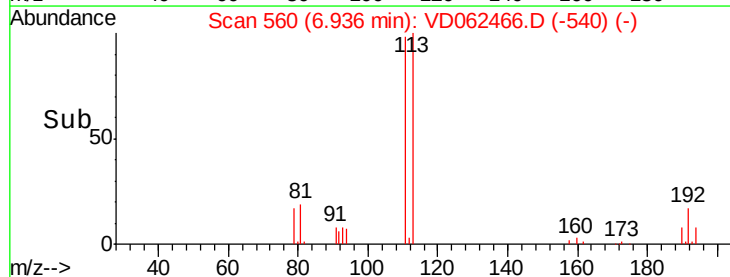
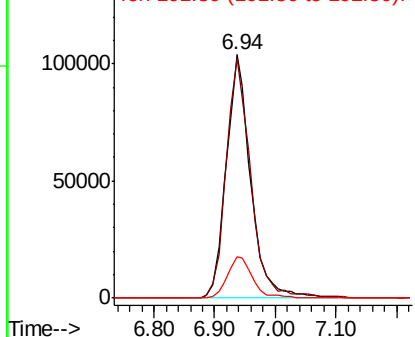


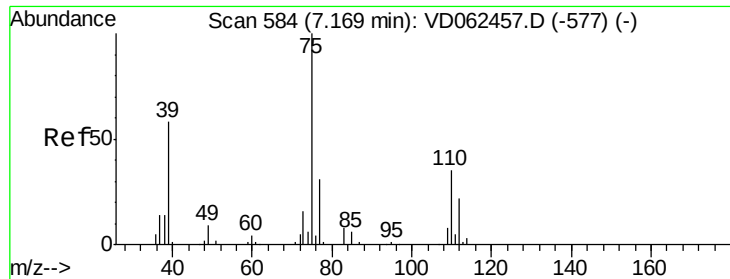
#35  
 Dibromofluoromethane  
 Concen: 33.331 ug/l  
 RT: 6.94 min Scan# 560  
 Delta R.T. -0.01 min  
 Lab File: VD062466.D  
 Acq: 20 May 2019 19:58

Tgt Ion:113 Resp: 289946  
 Ion Ratio Lower Upper  
 113 100  
 111 98.4 78.5 117.7  
 192 16.8 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V

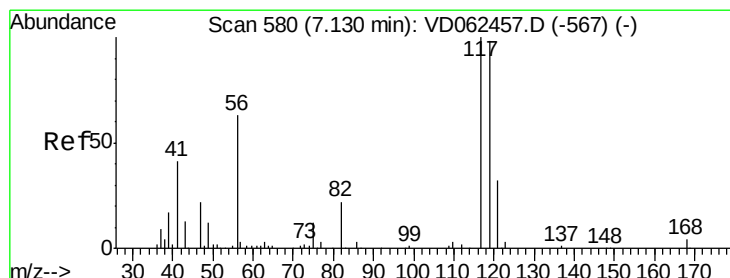
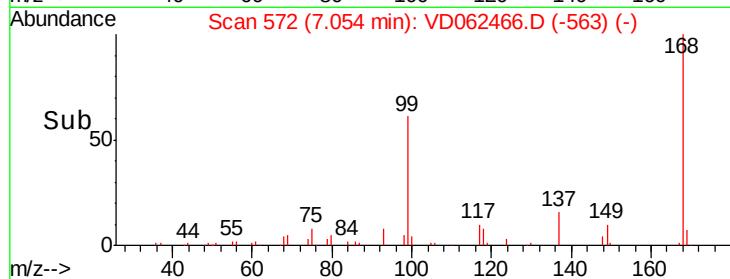
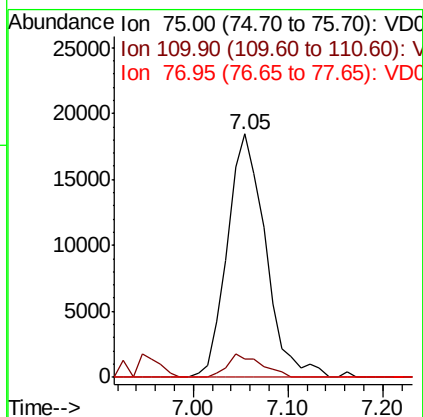
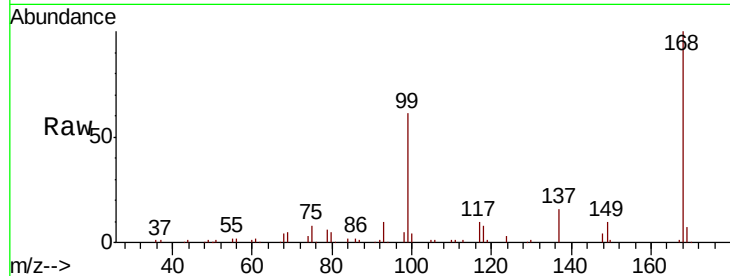




#36  
 1,1-Dichloropropene  
 Concen: 5.594 ug/l  
 RT: 7.05 min Scan# 572  
 Delta R.T. -0.12 min  
 Lab File: VD062466.D  
 Acq: 20 May 2019 19:58

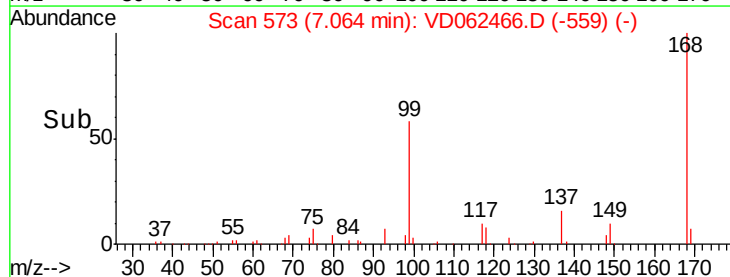
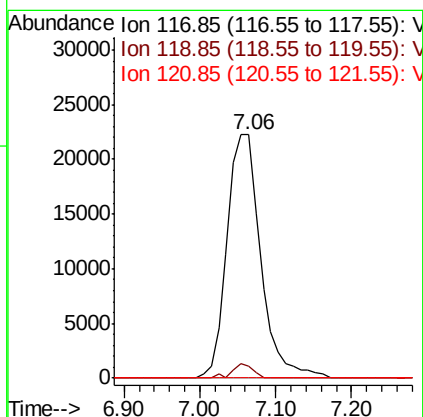
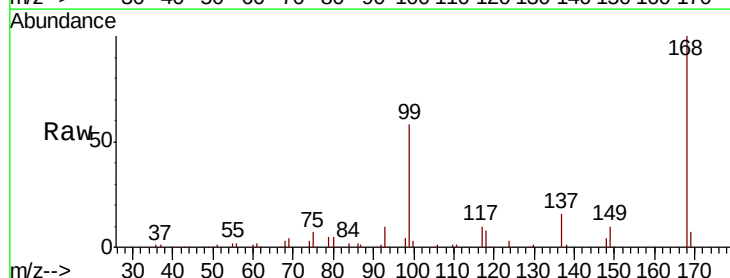
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-01-11-12

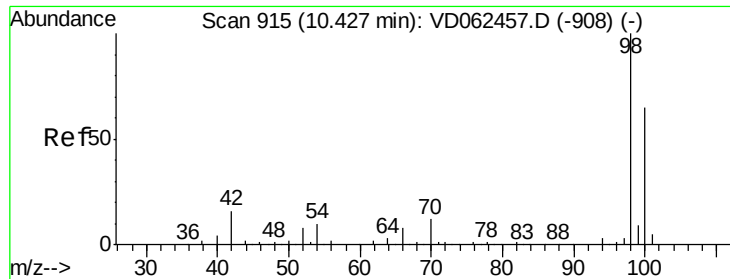
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 7.8   | 19.1  | 57.1# |
| 77      | 0.0   | 25.6  | 38.4# |



#38  
 Carbon Tetrachloride  
 Concen: 5.000 ug/l  
 RT: 7.06 min Scan# 573  
 Delta R.T. -0.07 min  
 Lab File: VD062466.D  
 Acq: 20 May 2019 19:58

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.8   | 75.8  | 113.8# |
| 121     | 0.0   | 25.9  | 38.9#  |

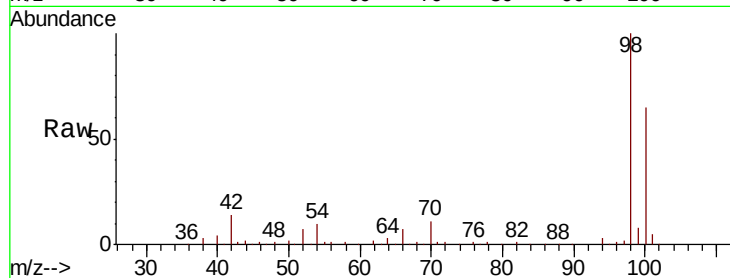




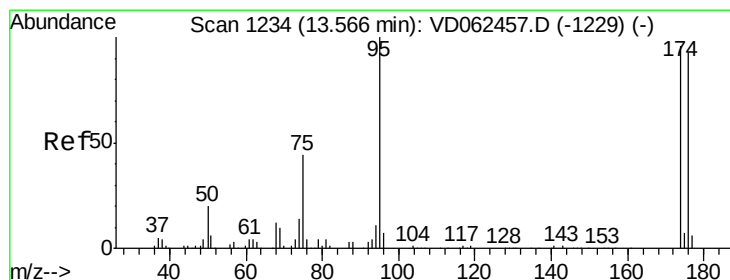
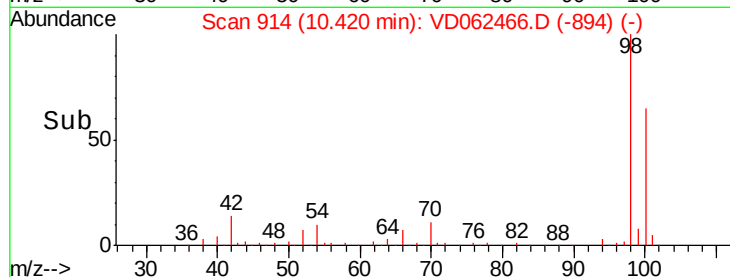
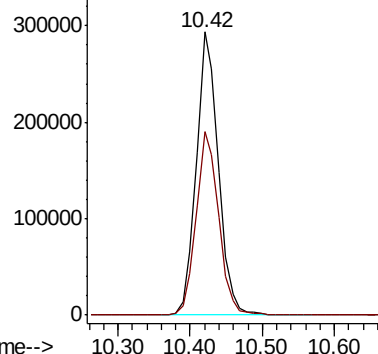
#50  
Toluene-d8  
Concen: 32.559 ug/l  
RT: 10.42 min Scan# 914  
Delta R.T. -0.01 min  
Lab File: VD062466.D  
Acq: 20 May 2019 19:58

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-01-11-12

Tot Ion: 98 Resp: 619835  
Ion Ratio Lower Upper  
98 100  
100 64.8 53.8 80.8

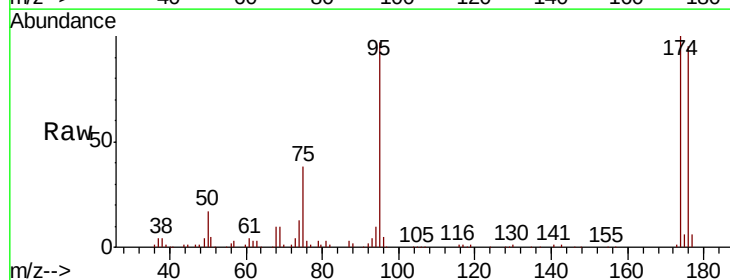


Abundance Ion 98.05 (97.75 to 98.75): VD062457.D (-908) (-)  
Ion 100.05 (99.75 to 100.75): VD062457.D (-908) (-)

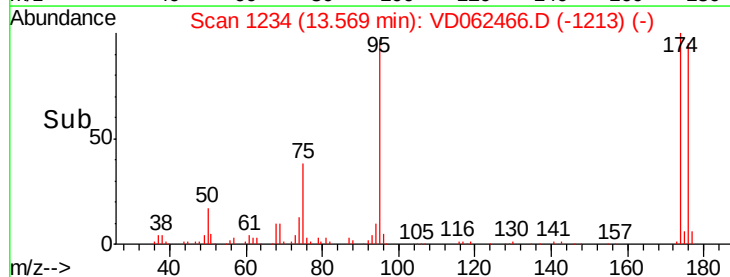
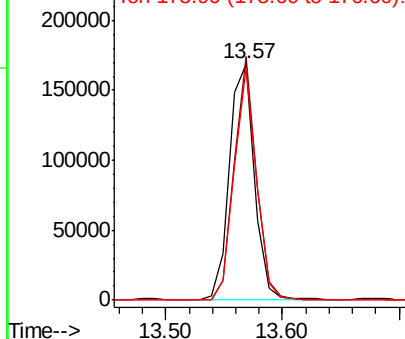


#62  
4-Bromofluorobenzene  
Concen: 30.147 ug/l  
RT: 13.57 min Scan# 1234  
Delta R.T. 0.00 min  
Lab File: VD062466.D  
Acq: 20 May 2019 19:58

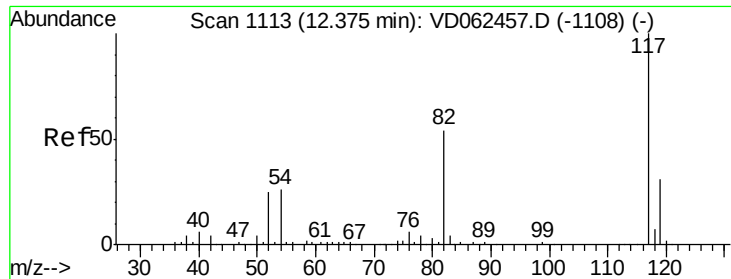
Tgt Ion: 95 Resp: 251051  
Ion Ratio Lower Upper  
95 100  
174 103.1 0.0 181.8  
176 98.3 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD062457.D (-1229) (-)  
Ion 173.90 (173.60 to 174.60): VD062457.D (-1229) (-)  
Ion 175.90 (175.60 to 176.60): VD062457.D (-1229) (-)



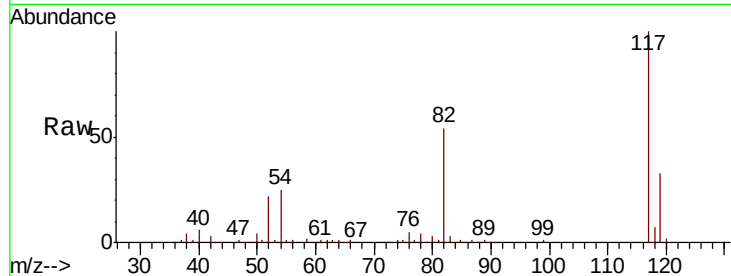




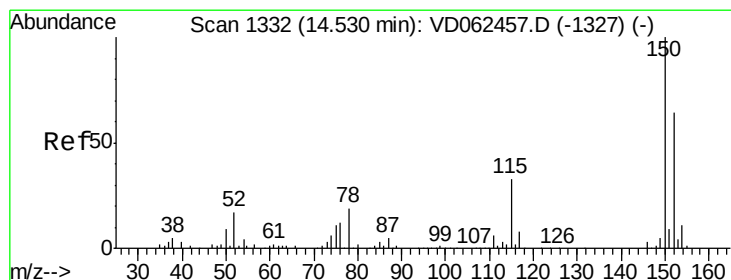
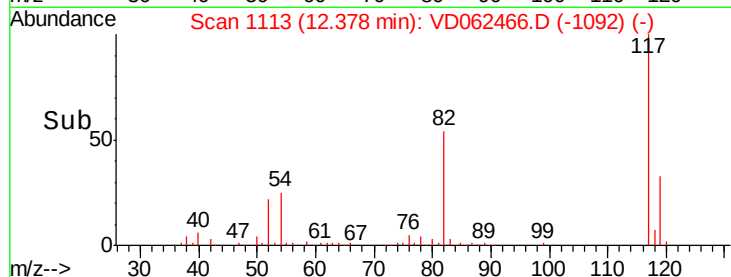
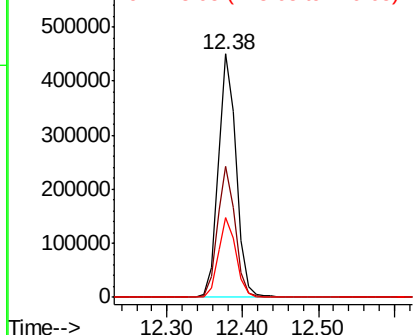
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1113  
Delta R.T. 0.00 min  
Lab File: VD062466.D  
Acq: 20 May 2019 19:58

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-01-11-12

Tot Ion:117 Resp: 748442  
Ion Ratio Lower Upper  
117 100  
82 53.6 36.2 54.2  
119 32.6 26.2 39.4

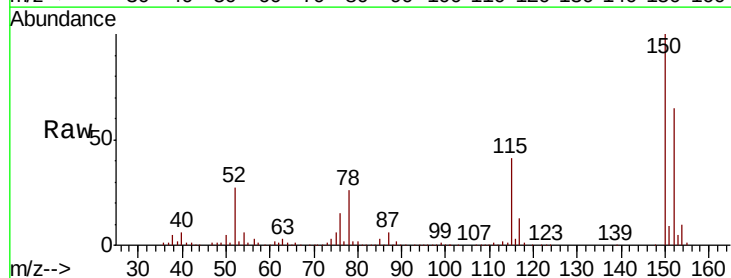


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

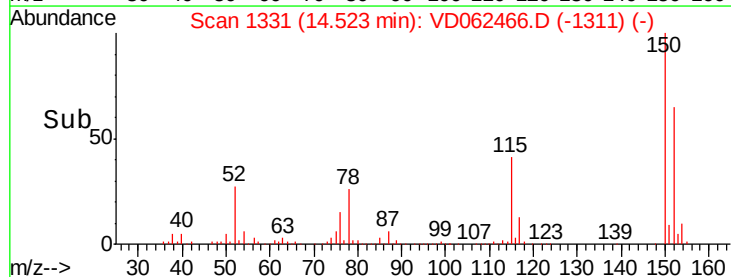
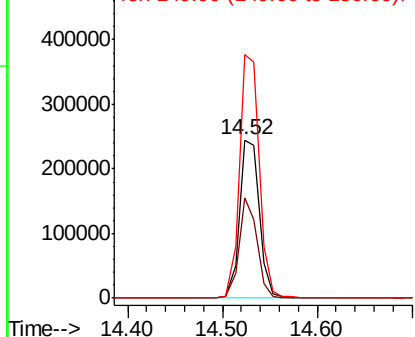


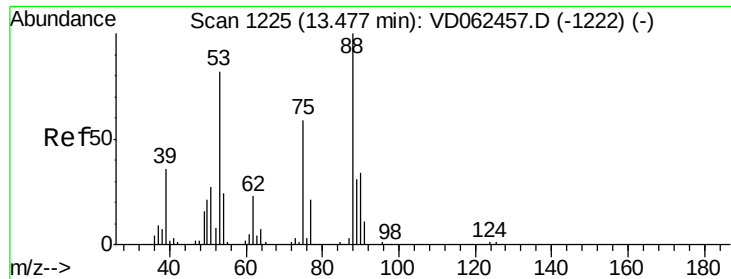
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1331  
Delta R.T. -0.01 min  
Lab File: VD062466.D  
Acq: 20 May 2019 19:58

Tgt Ion:152 Resp: 356063  
Ion Ratio Lower Upper  
152 100  
115 63.8 30.9 92.7  
150 153.9 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 88.787 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD062466.D

Acq: 20 May 2019 19:58

Instrument :

MSVOA\_D

ClientSampleId :

SB-01-11-12

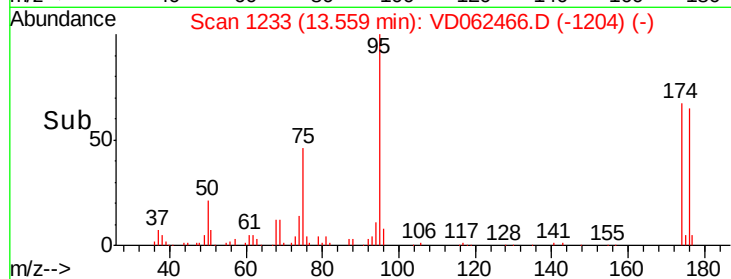
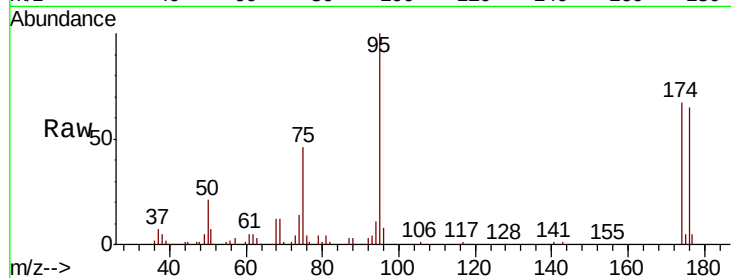
Tot Ion: 75 Resp: 105019

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

