

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081319\  
 Data File : VD063530.D  
 Acq On : 13 Aug 2019 16:36  
 Operator : JC/SY  
 Sample : K4295-04  
 Misc : 4.49g/5ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 14 08:28:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080919S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 2019  
 Response via : Initial Calibration

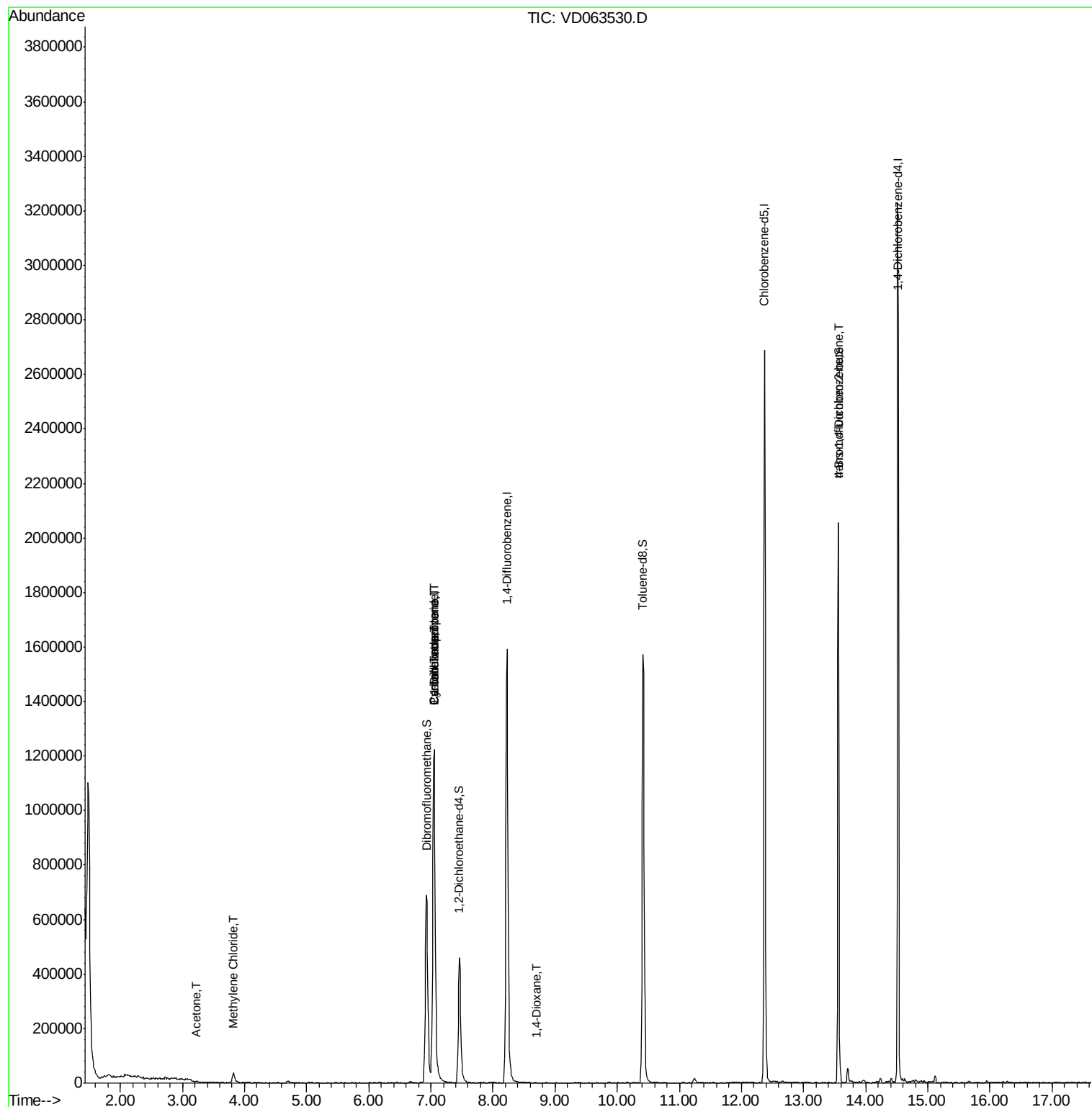
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 1) Pentafluorobenzene          | 7.05  | 168  | 1182610  | 50.00   | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene        | 8.23  | 114  | 1752085  | 50.00   | ug/l   | -0.01    |
| 63) Chlorobenzene-d5           | 12.37 | 117  | 1435397  | 50.00   | ug/l   | -0.01    |
| 72) 1,4-Dichlorobenzene-d4     | 14.53 | 152  | 765756   | 50.00   | ug/l   | 0.00     |
| System Monitoring Compounds    |       |      |          |         |        |          |
| 33) 1,2-Dichloroethane-d4      | 7.46  | 65   | 514623   | 40.71   | ug/l   | -0.01    |
| Spiked Amount 50.000           |       |      | Recovery | =       | 81.42% |          |
| 35) Dibromofluoromethane       | 6.93  | 113  | 615875   | 41.74   | ug/l   | -0.01    |
| Spiked Amount 50.000           |       |      | Recovery | =       | 83.48% |          |
| 50) Toluene-d8                 | 10.41 | 98   | 1313270  | 40.48   | ug/l   | -0.01    |
| Spiked Amount 50.000           |       |      | Recovery | =       | 80.96% |          |
| 62) 4-Bromofluorobenzene       | 13.56 | 95   | 565450   | 38.46   | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 76.92% |          |
| Target Compounds               |       |      |          |         |        |          |
|                                |       |      |          |         | Qvalue |          |
| 16) Acetone                    | 3.23  | 43   | 7727     | 3.007   | ug/l   | 100      |
| 20) Methylene Chloride         | 3.83  | 84   | 20894    | 1.880   | ug/l # | 84       |
| 31) Cyclohexane                | 7.05  | 56   | 25163    | 2.205   | ug/l # | 33       |
| 36) 1,1-Dichloropropene        | 7.05  | 75   | 89837    | 5.800   | ug/l # | 51       |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 111447   | 4.774   | ug/l # | 18       |
| 49) 1,4-Dioxane                | 8.70  | 88   | 222      | 28.853  | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 253265   | 107.221 | ug/l # | 1        |

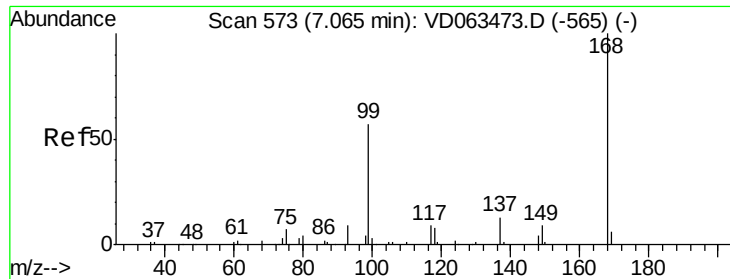
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 10 06:42:47 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.01 min

Lab File: VD063530.D

Acq: 13 Aug 2019 16:36

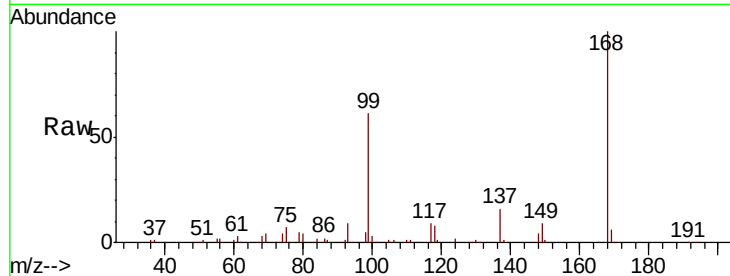
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 1182610

Ion Ratio Lower Upper

168 100

99 61.0 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

500000

400000

300000

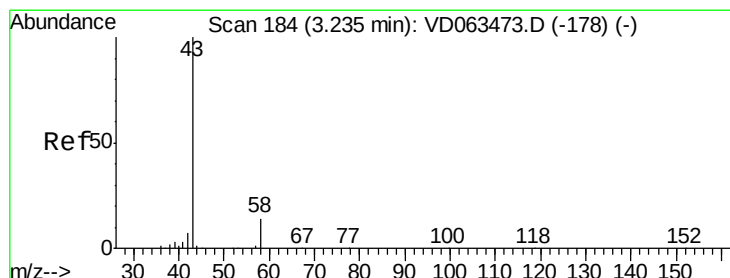
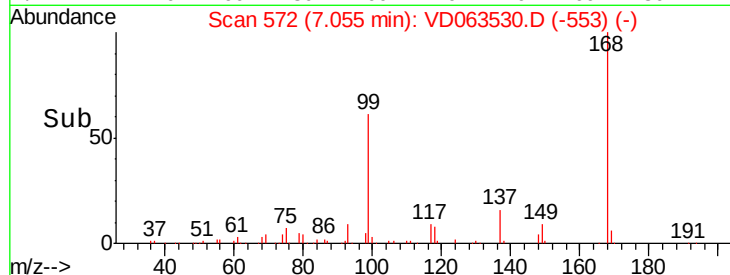
200000

100000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#16

Acetone

Concen: 3.007 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD063530.D

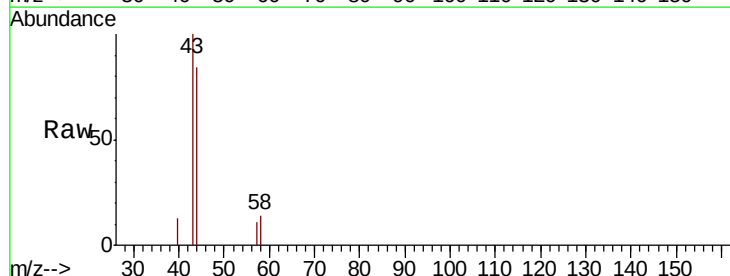
Acq: 13 Aug 2019 16:36

Tgt Ion: 43 Resp: 7727

Ion Ratio Lower Upper

43 100

58 14.3 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.23

3000

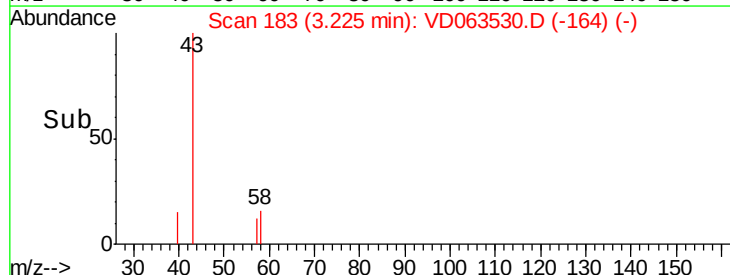
2000

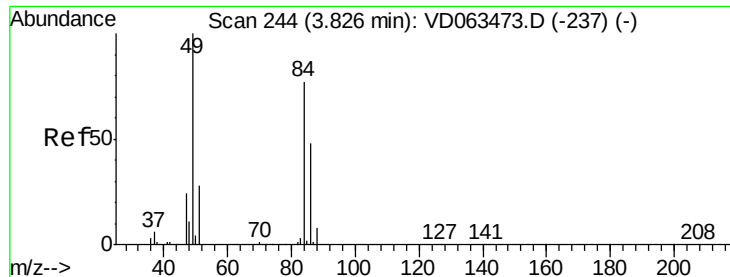
1000

0

3.10 3.20 3.30

Time-->

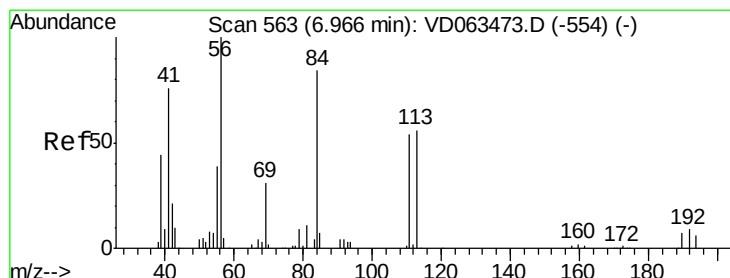
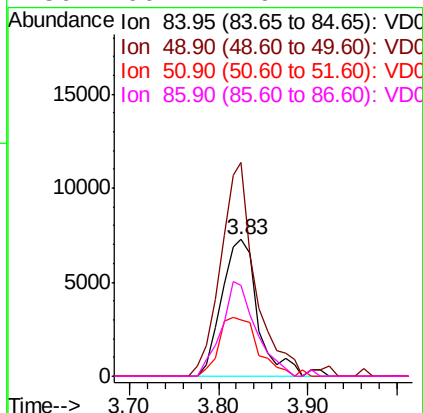
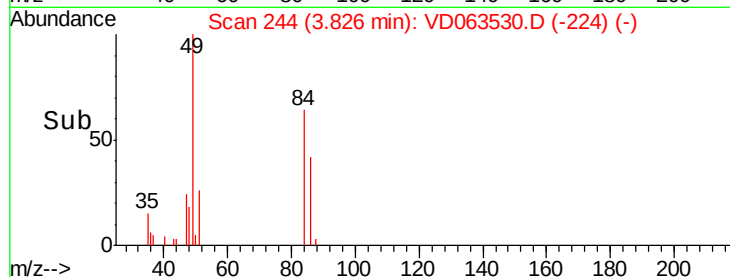
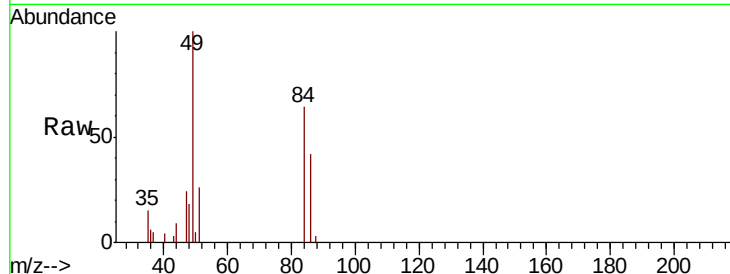




#20  
Methylene Chloride  
Concen: 1.880 ug/l  
RT: 3.83 min Scan# 244  
Delta R.T. -0.00 min  
Lab File: VD063530.D  
Acq: 13 Aug 2019 16:36

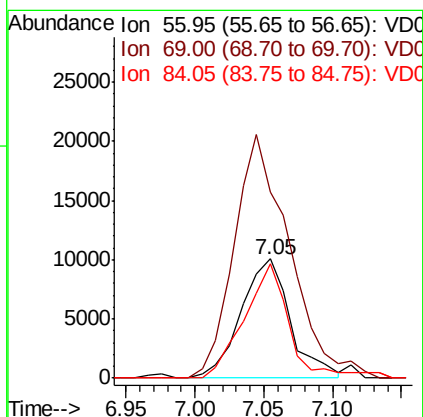
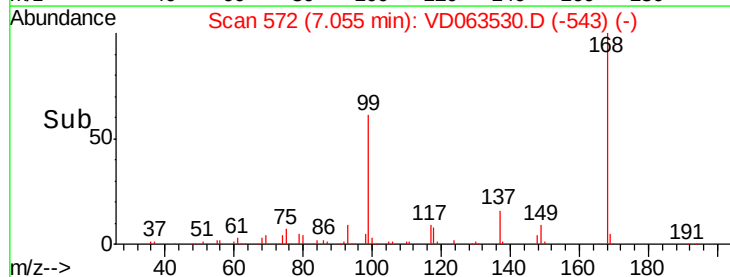
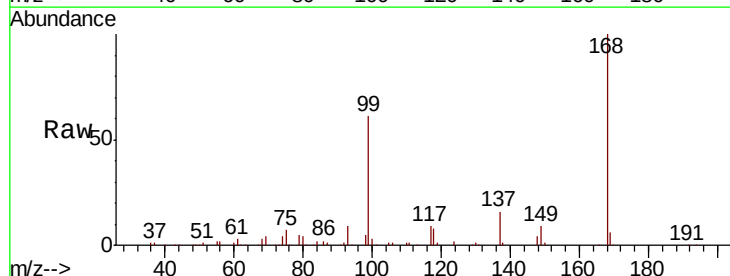
Instrument :  
MSVOA\_D  
ClientSampleId :

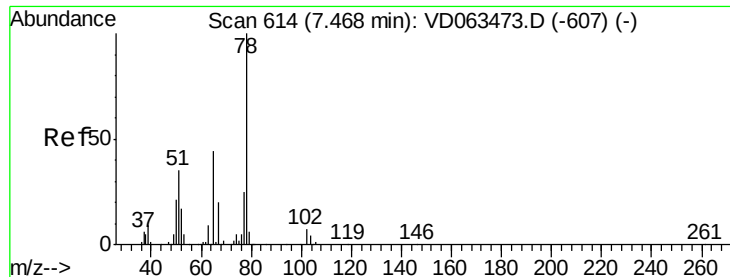
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 20894  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 156.2 | 103.4 | 155.2# |
| 51       | 40.9  | 28.5  | 42.7   |
| 86       | 66.2  | 49.4  | 74.2   |



#31  
Cyclohexane  
Concen: 2.205 ug/l  
RT: 7.05 min Scan# 572  
Delta R.T. 0.09 min  
Lab File: VD063530.D  
Acq: 13 Aug 2019 16:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 25163 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 155.8 | 25.0  | 37.6# |
| 84       | 95.8  | 69.7  | 104.5 |

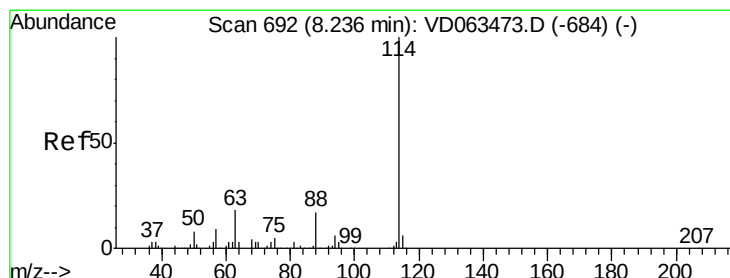
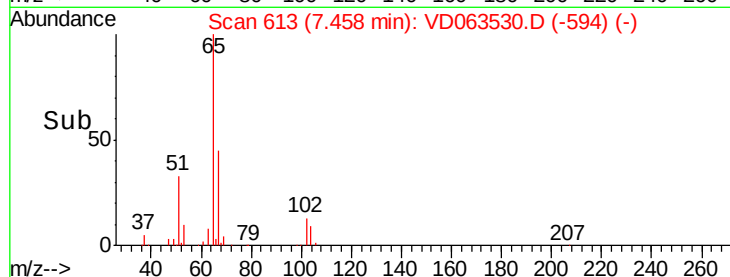
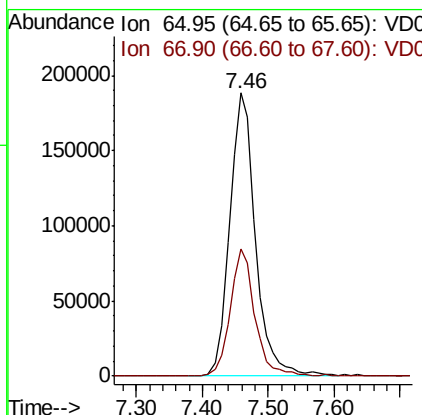
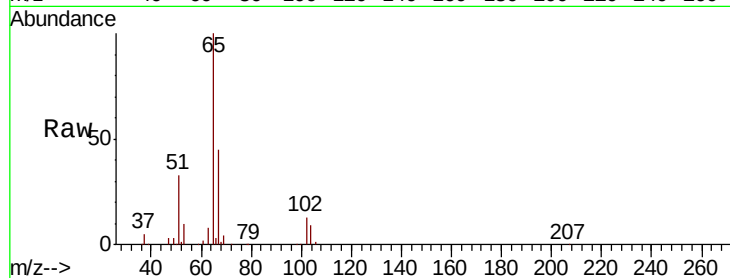




#33  
 1,2-Dichloroethane-d4  
 Concen: 40.710 ug/l  
 RT: 7.46 min Scan# 613  
 Delta R.T. -0.01 min  
 Lab File: VD063530.D  
 Acq: 13 Aug 2019 16:36

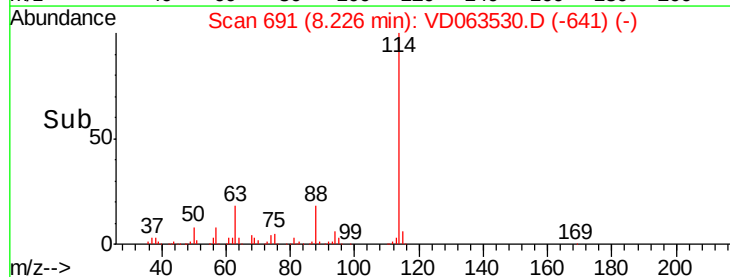
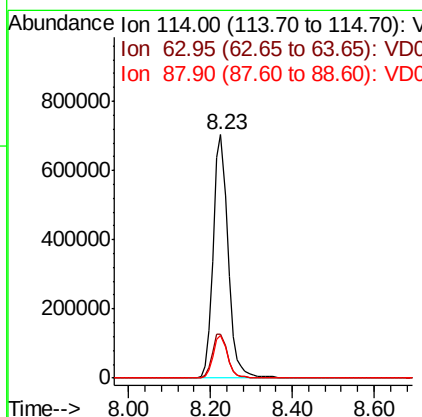
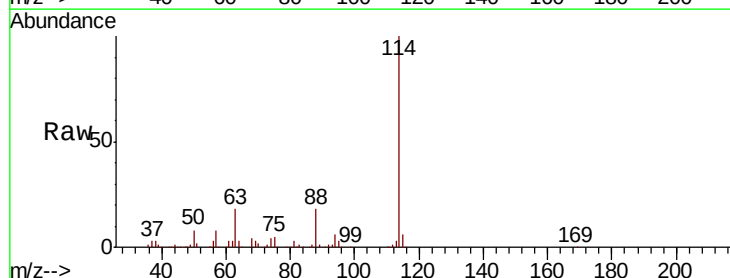
Instrument :  
 MSVOA\_D  
 ClientSampleId :

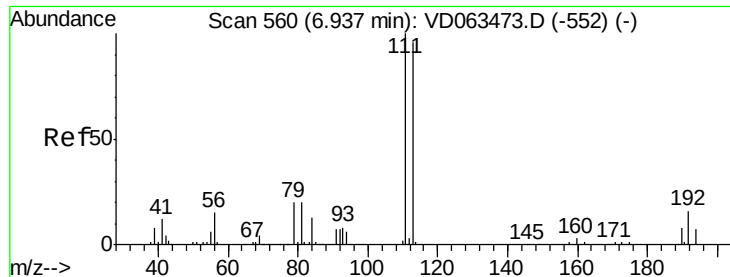
Tot Ion: 65 Resp: 514623  
 Ion Ratio Lower Upper  
 65 100  
 67 44.7 0.0 89.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.23 min Scan# 691  
 Delta R.T. -0.01 min  
 Lab File: VD063530.D  
 Acq: 13 Aug 2019 16:36

Tgt Ion: 114 Resp: 1752085  
 Ion Ratio Lower Upper  
 114 100  
 63 17.9 0.0 36.2  
 88 17.5 0.0 35.0

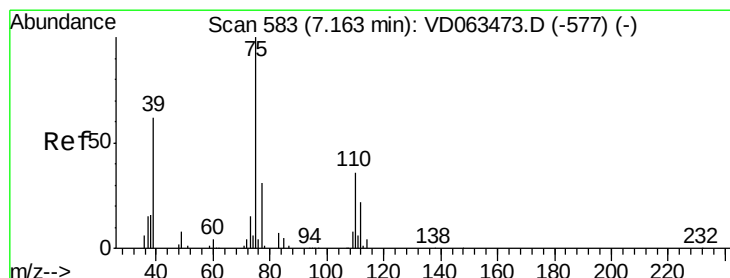
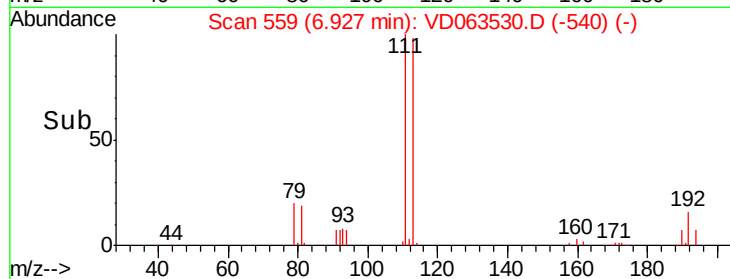
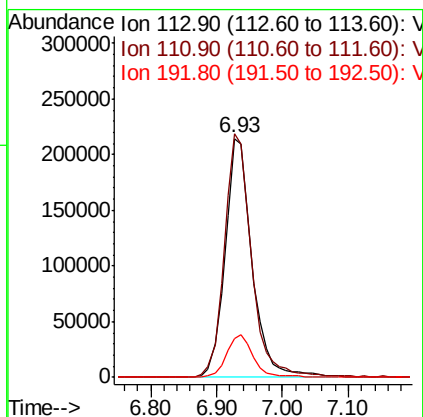
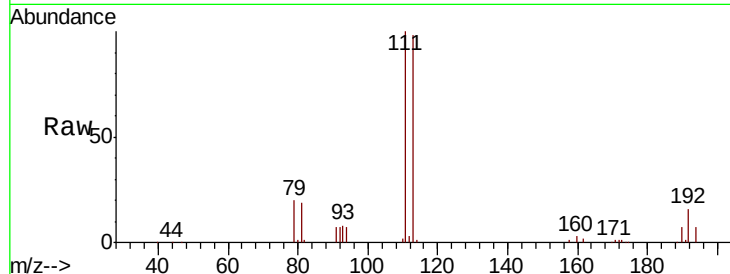




#35  
 Dibromofluoromethane  
 Concen: 41.737 ug/l  
 RT: 6.93 min Scan# 559  
 Delta R.T. -0.01 min  
 Lab File: VD063530.D  
 Acq: 13 Aug 2019 16:36

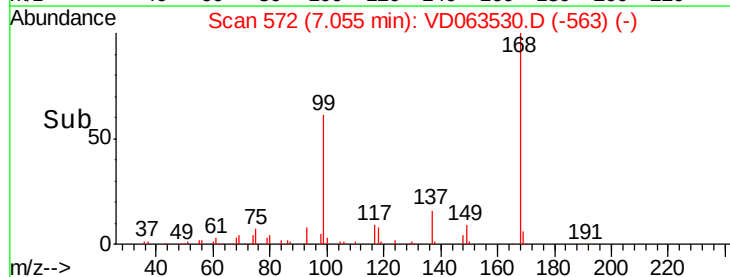
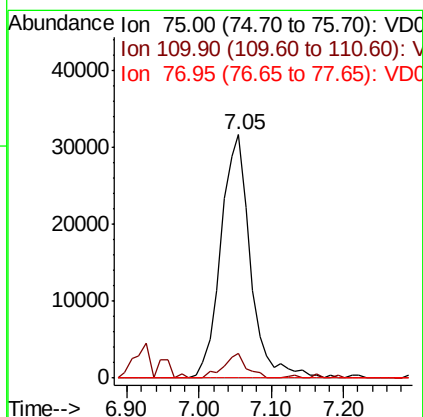
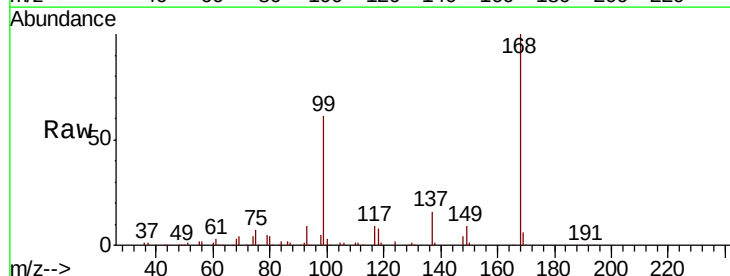
Instrument :  
 MSVOA\_D  
 ClientSampled :

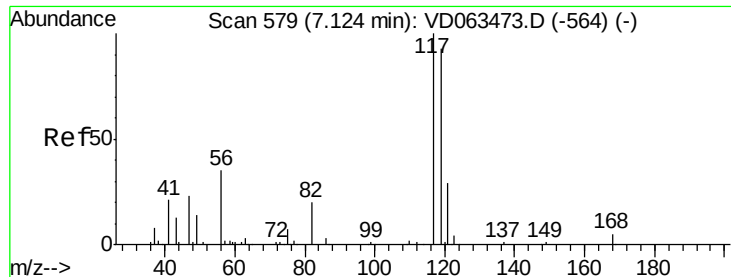
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 83.1  | 124.7 |
| 192     | 16.1  | 13.1  | 19.7  |



#36  
 1,1-Dichloropropene  
 Concen: 5.800 ug/l  
 RT: 7.05 min Scan# 572  
 Delta R.T. -0.11 min  
 Lab File: VD063530.D  
 Acq: 13 Aug 2019 16:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.2  | 17.6  | 52.8# |
| 77      | 0.0   | 24.3  | 36.5# |

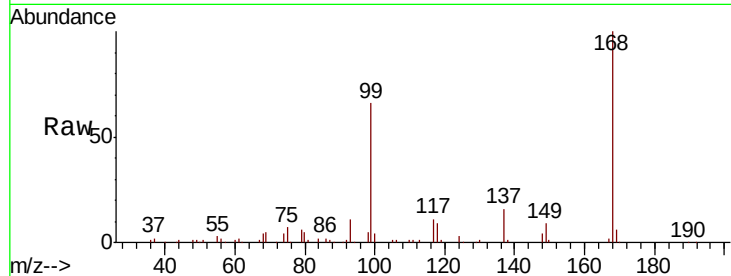




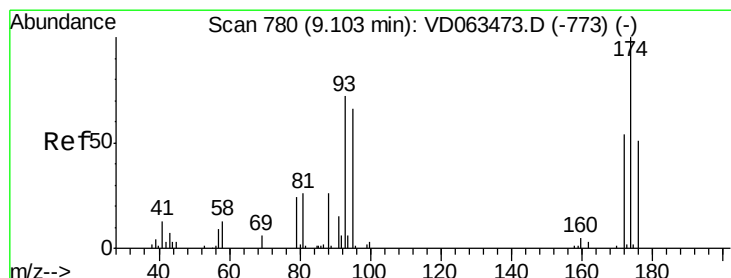
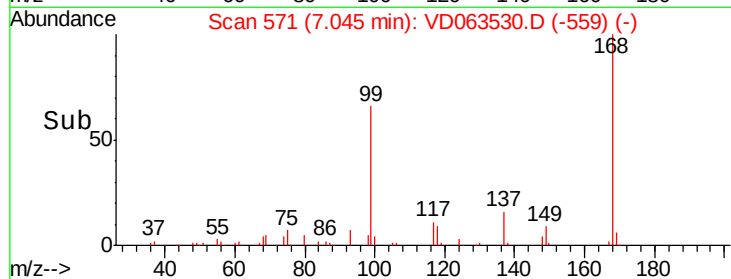
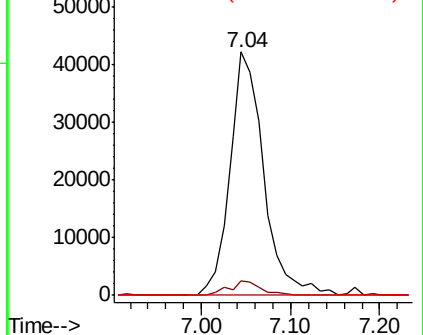
#38  
Carbon Tetrachloride  
Concen: 4.774 ug/l  
RT: 7.04 min Scan# 571  
Delta R.T. -0.08 min  
Lab File: VD063530.D  
Acq: 13 Aug 2019 16:36

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 111447  
Ion Ratio Lower Upper  
117 100  
119 5.9 74.2 111.2#  
121 0.0 23.1 34.7#

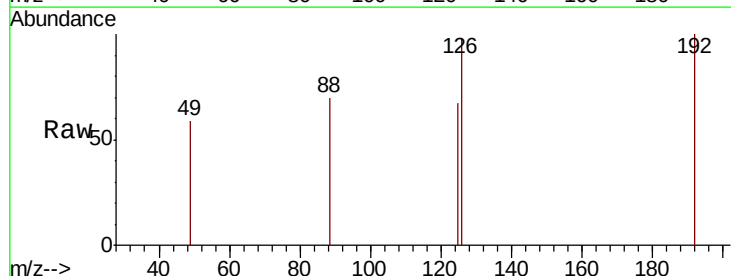


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

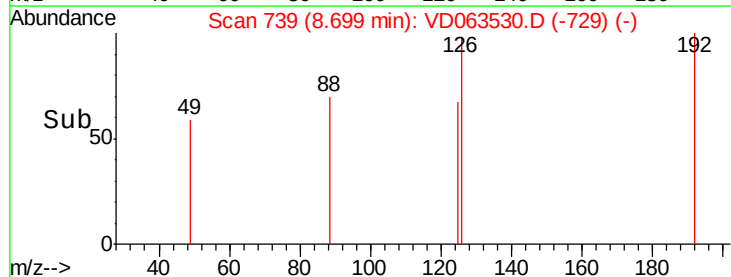
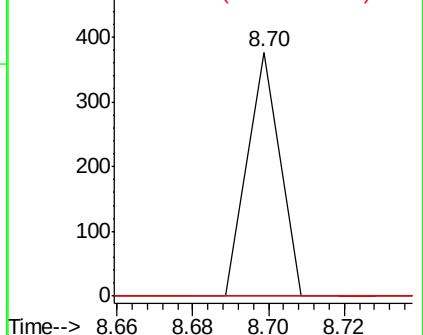


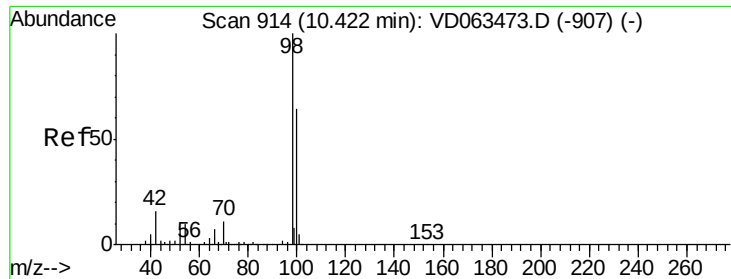
#49  
1,4-Dioxane  
Concen: 28.853 ug/l  
RT: 8.70 min Scan# 739  
Delta R.T. -0.40 min  
Lab File: VD063530.D  
Acq: 13 Aug 2019 16:36

Tgt Ion: 88 Resp: 222  
Ion Ratio Lower Upper  
88 100  
43 0.0 22.9 34.3#  
58 0.0 40.1 60.1#



Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.05 (42.75 to 43.75): VDC  
Ion 57.95 (57.65 to 58.65): VDC

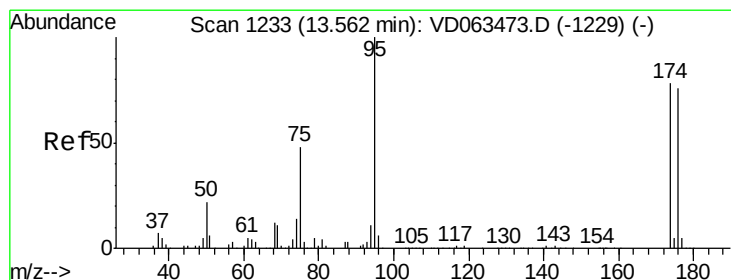
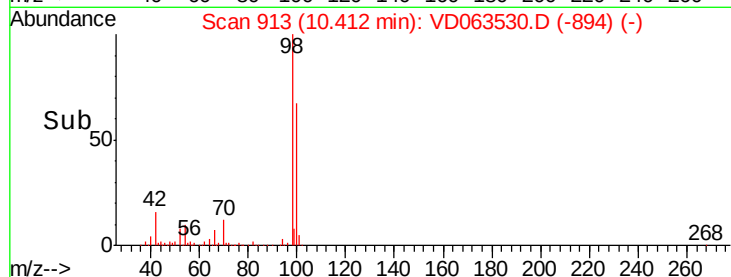
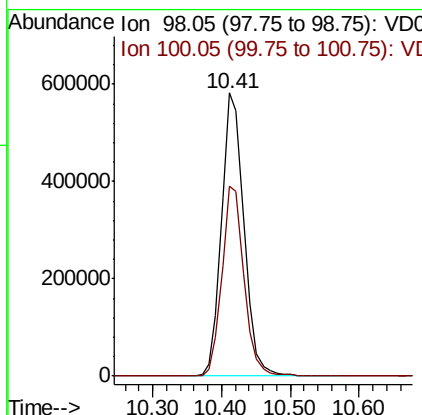
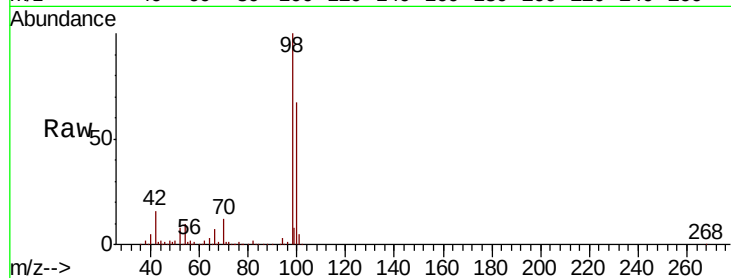




#50  
Toluene-d8  
Concen: 40.480 ug/l  
RT: 10.41 min Scan# 913  
Delta R.T. -0.01 min  
Lab File: VD063530.D  
Acq: 13 Aug 2019 16:36

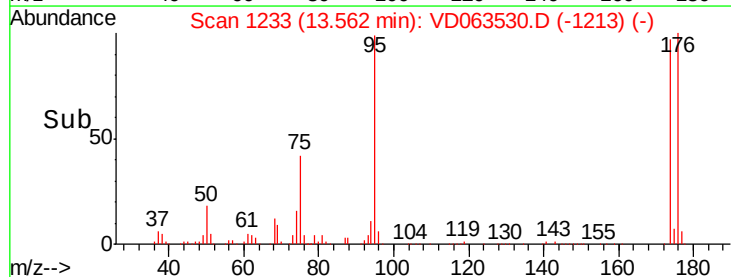
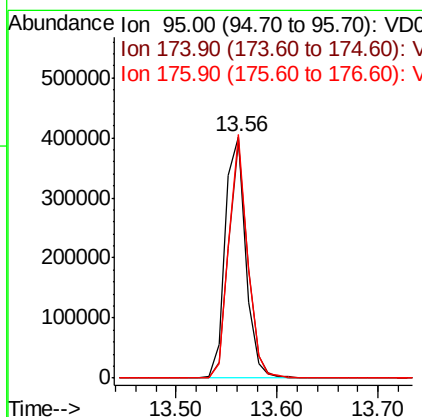
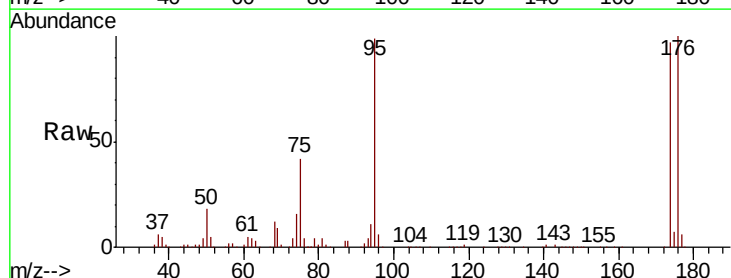
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 98 Resp: 1313270  
Ion Ratio Lower Upper  
98 100  
100 67.2 51.7 77.5

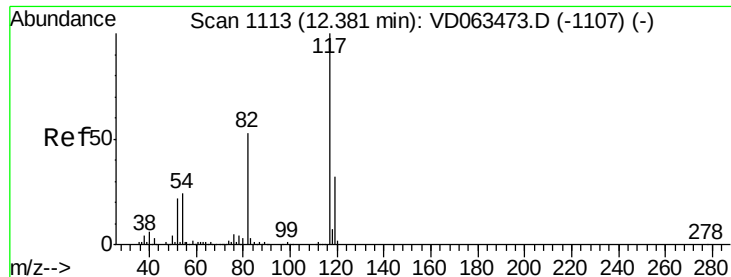


#62  
4-Bromofluorobenzene  
Concen: 38.455 ug/l  
RT: 13.56 min Scan# 1233  
Delta R.T. -0.00 min  
Lab File: VD063530.D  
Acq: 13 Aug 2019 16:36

Tgt Ion: 95 Resp: 565450  
Ion Ratio Lower Upper  
95 100  
174 97.6 0.0 155.4  
176 100.9 0.0 152.4



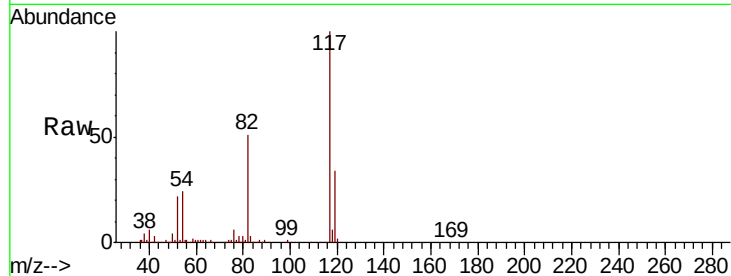




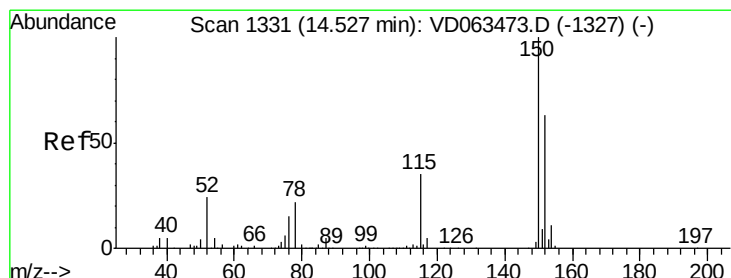
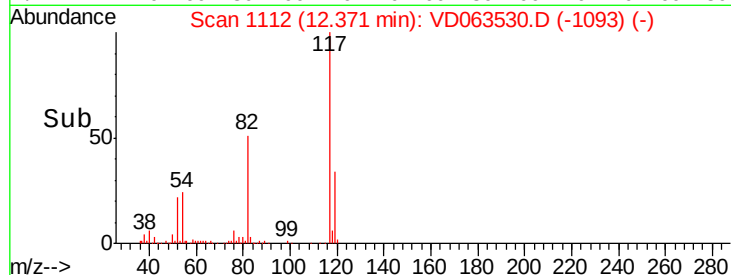
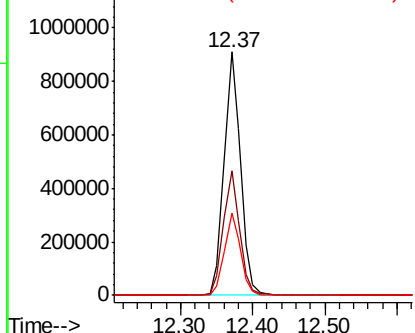
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. -0.01 min  
Lab File: VD063530.D  
Acq: 13 Aug 2019 16:36

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 1435397  
Ion Ratio Lower Upper  
117 100  
82 51.0 42.0 63.0  
119 33.6 25.4 38.0

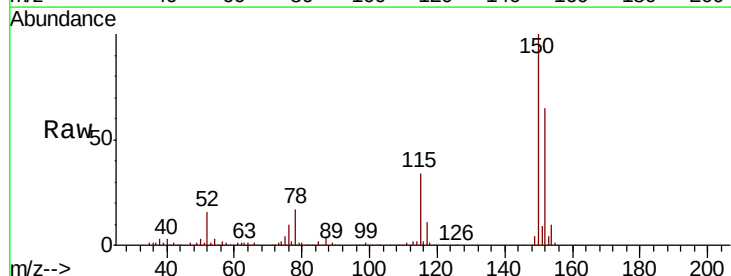


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

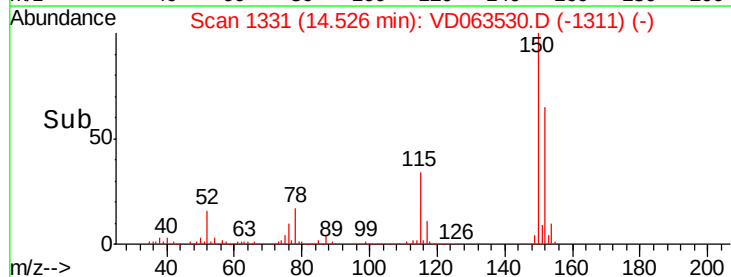
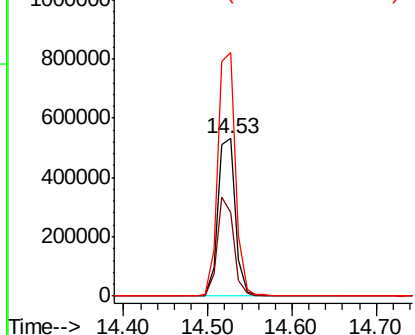


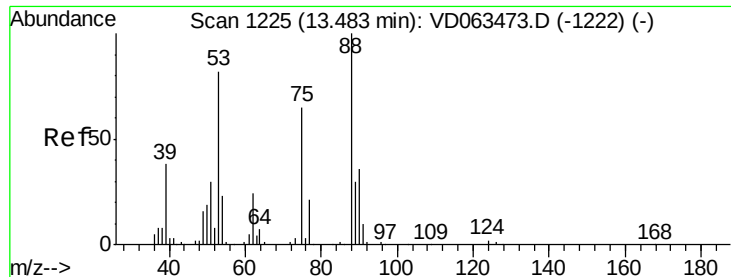
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.53 min Scan# 1331  
Delta R.T. -0.00 min  
Lab File: VD063530.D  
Acq: 13 Aug 2019 16:36

Tgt Ion:152 Resp: 765756  
Ion Ratio Lower Upper  
152 100  
115 52.9 30.9 92.7  
150 154.8 0.0 318.6



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: 107.221 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD063530.D

Acq: 13 Aug 2019 16:36

Instrument :

MSVOA\_D

ClientSampleId :

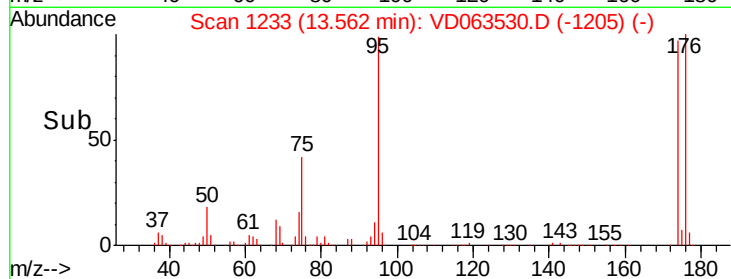
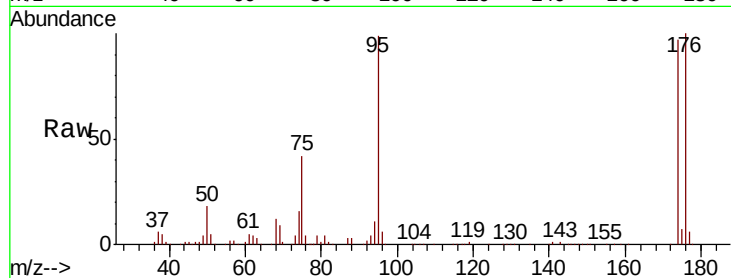
Tot Ion: 75 Resp: 253265

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#



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

