

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012020\  
 Data File : VD064895.D  
 Acq On : 20 Jan 2020 17:30  
 Operator : VA/SY  
 Sample : L1189-07  
 Misc : 6.79G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jan 21 04:11:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 2019  
 Response via : Initial Calibration

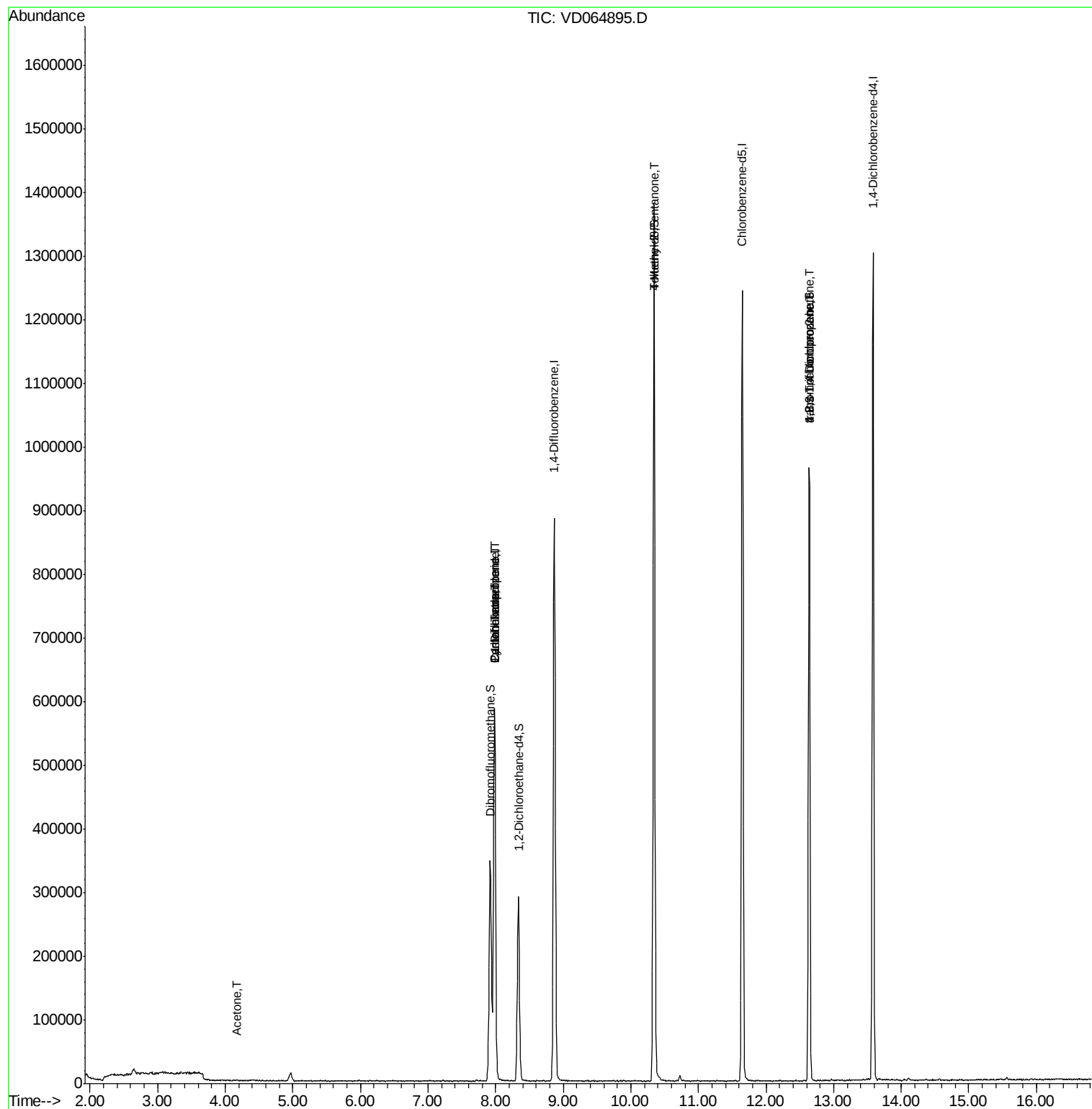
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 442616   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 744596   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 696686   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 335398   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 229734   | 58.86     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 117.72% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 238355   | 52.18     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.36% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 913010   | 52.18     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.36% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 293105   | 52.98     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 105.96% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 16) Acetone                    | 4.16  | 43   | 1383     | 5.672     | ug/l    | 95       |
| 20) Methylene Chloride         | 4.96  | 84   | 8417     | Below Cal | #       | 89       |
| 31) Cyclohexane                | 7.98  | 56   | 9295     | 1.277     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 33050    | 4.612     | ug/l #  | 51       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 43157    | 5.647     | ug/l #  | 15       |
| 51) 4-Methyl-2-Pentanone       | 10.35 | 43   | 4206     | 1.518     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 157102   | 59.317    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 157102   | 124.060   | ug/l #  | 10       |

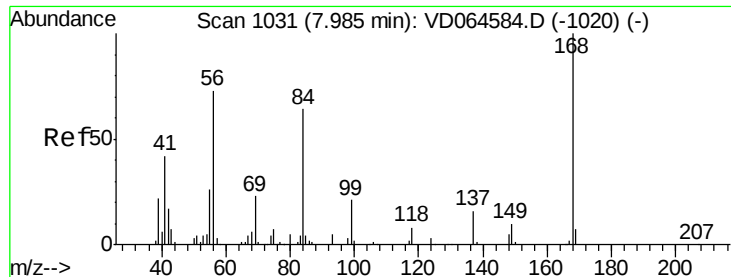
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 21 04:11:00 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 24 13:19:06 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064895.D

Acq: 20 Jan 2020 17:30

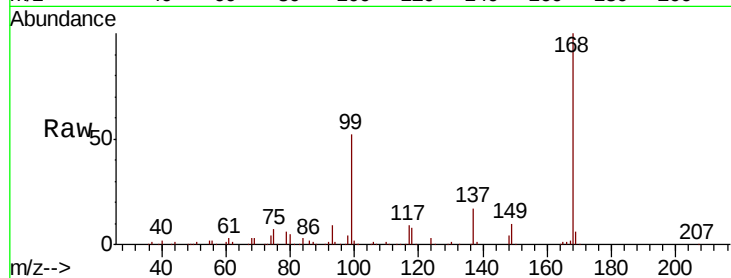
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 442616

Ion Ratio Lower Upper

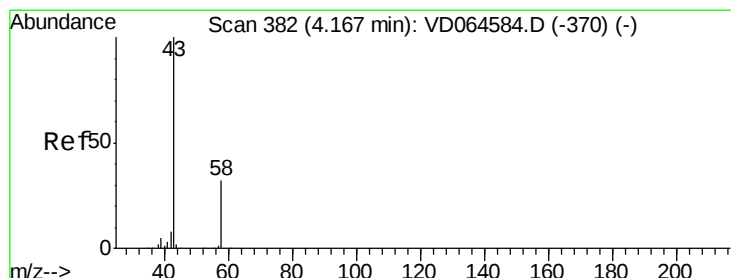
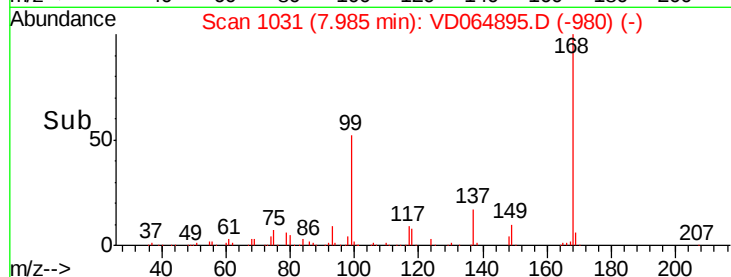
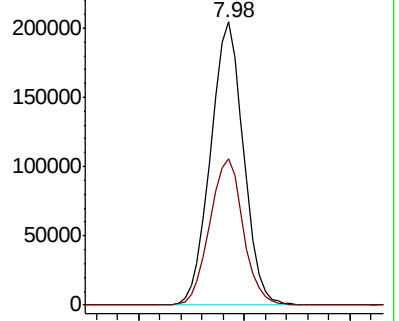
168 100

99 51.5 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 5.672 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD064895.D

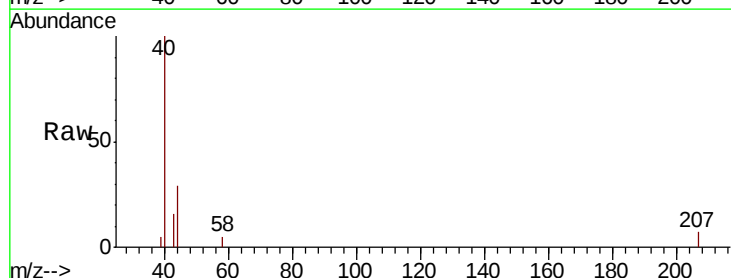
Acq: 20 Jan 2020 17:30

Tgt Ion: 43 Resp: 1383

Ion Ratio Lower Upper

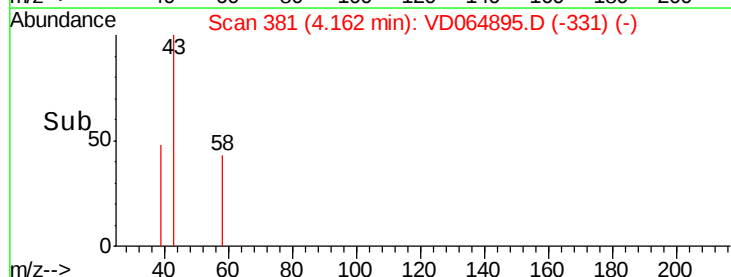
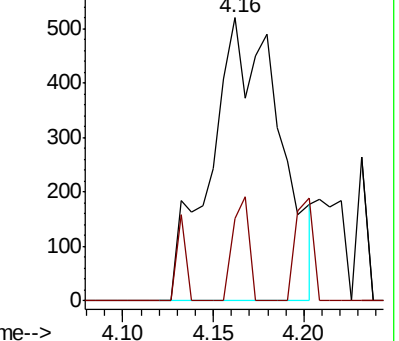
43 100

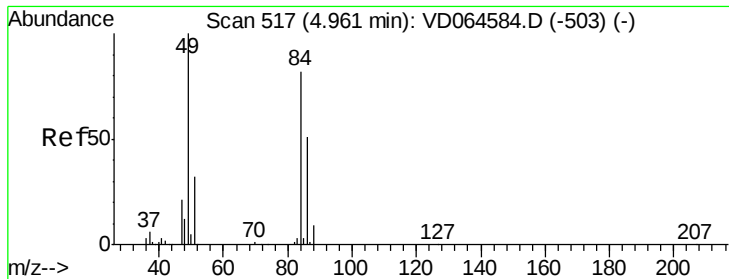
58 29.2 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

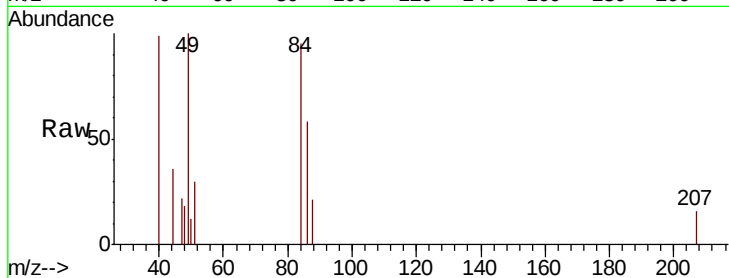




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 516  
Delta R.T. -0.01 min  
Lab File: VD064895.D  
Acq: 20 Jan 2020 17:30

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tot Ion | 84    | Resp  | 8417  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 84      | 100   |       |       |
| 49      | 105.3 | 97.2  | 145.8 |
| 51      | 31.2  | 31.4  | 47.0# |
| 86      | 60.8  | 49.3  | 73.9  |



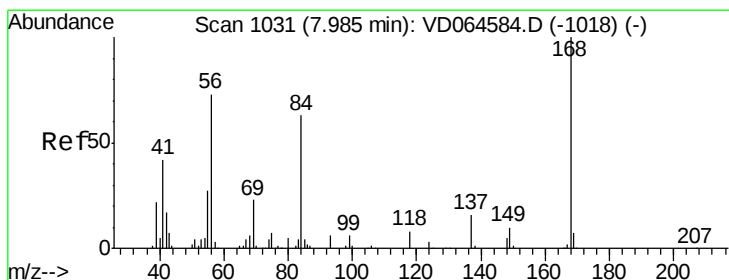
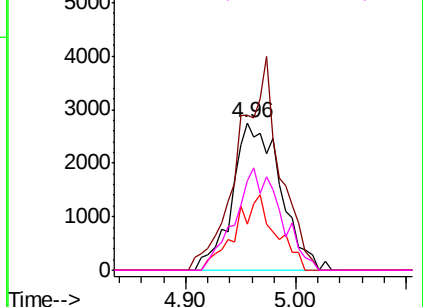
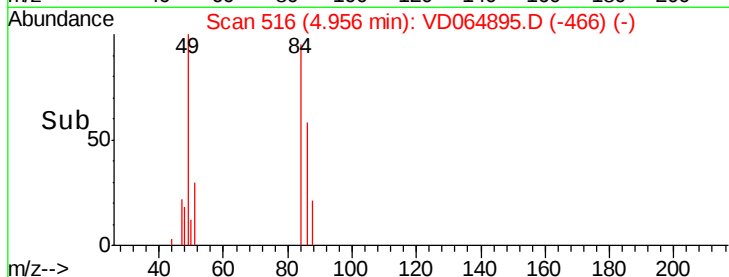
Abundance

Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

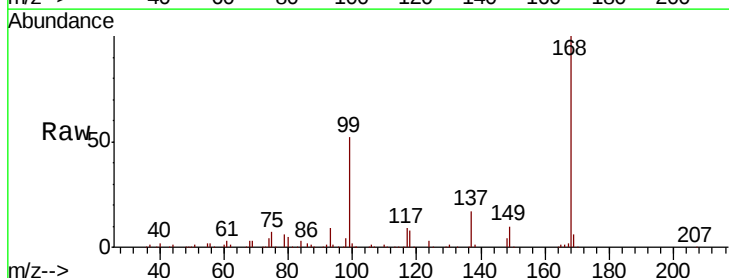
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#31  
Cyclohexane  
Concen: 1.277 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD064895.D  
Acq: 20 Jan 2020 17:30

| Tgt Ion | 56    | Resp  | 9295   |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 56      | 100   |       |        |
| 69      | 162.6 | 24.7  | 37.1#  |
| 84      | 139.9 | 69.4  | 104.2# |

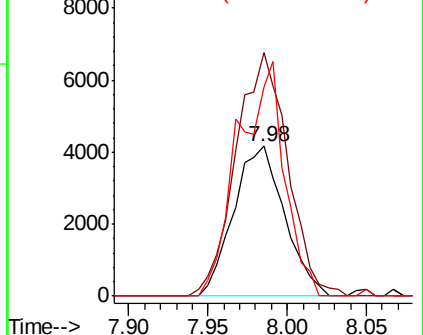
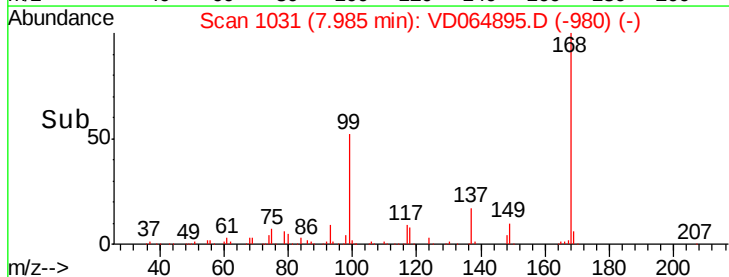


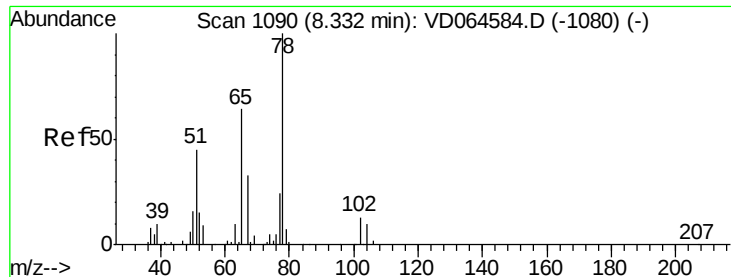
Abundance

Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

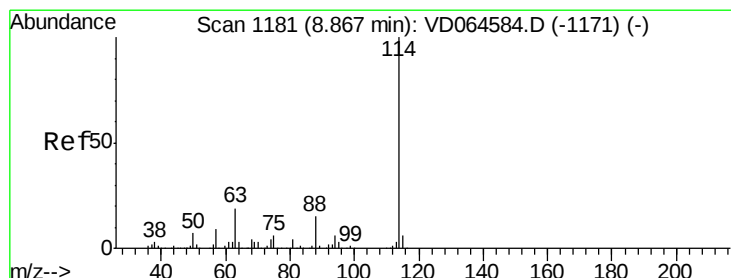
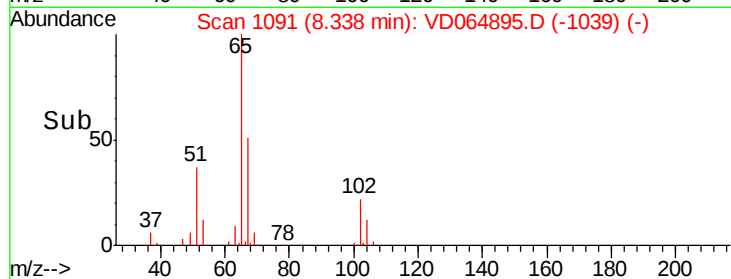
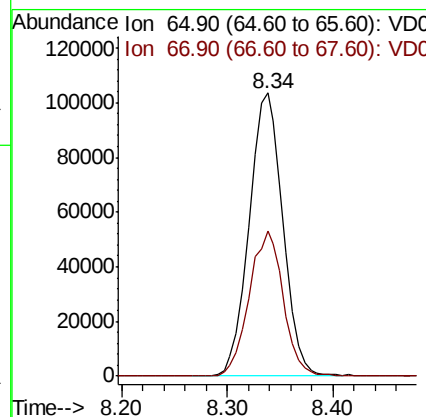
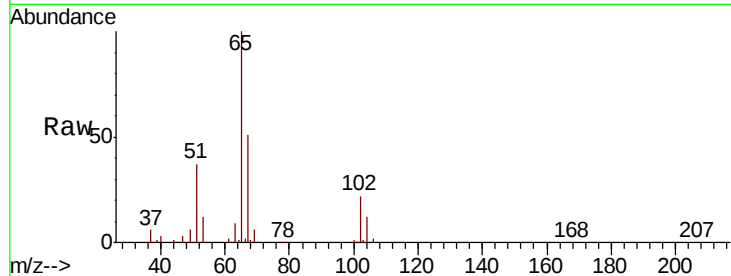




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.862 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. 0.01 min  
 Lab File: VD064895.D  
 Acq: 20 Jan 2020 17:30

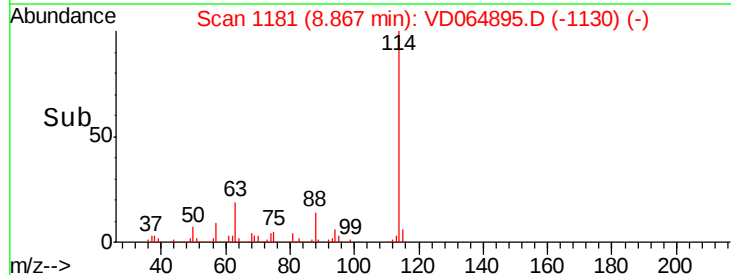
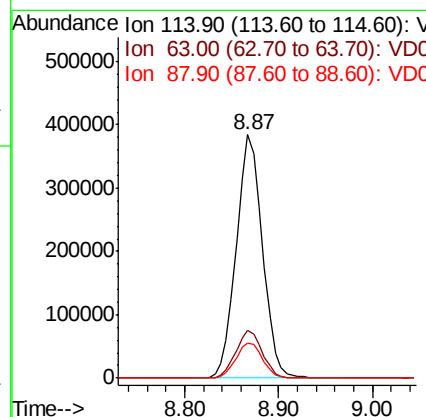
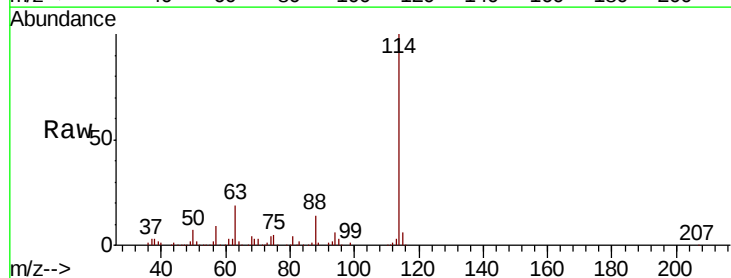
Instrument :  
 MSVOA\_D  
 ClientSampled :

Tot Ion: 65 Resp: 229734  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064895.D  
 Acq: 20 Jan 2020 17:30

Tgt Ion: 114 Resp: 744596  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 38.0  
 88 14.2 0.0 29.2

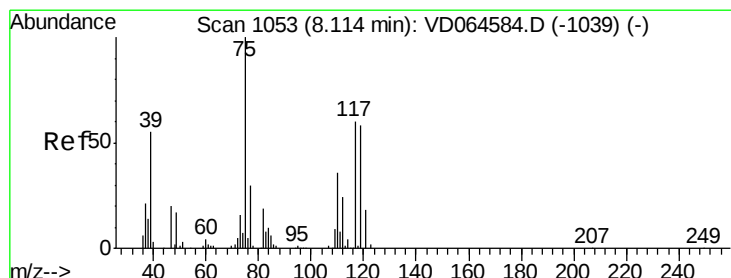
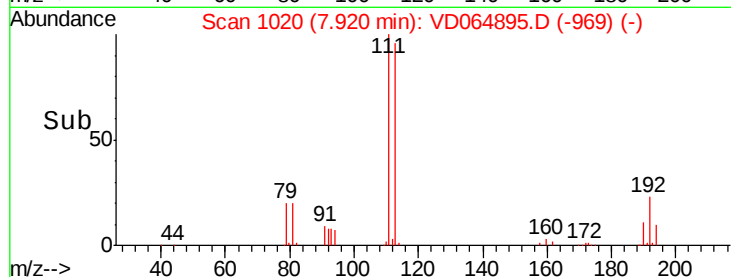
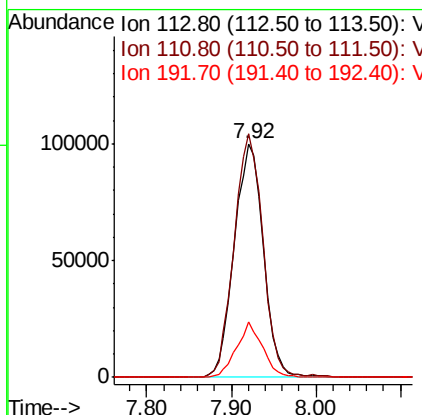
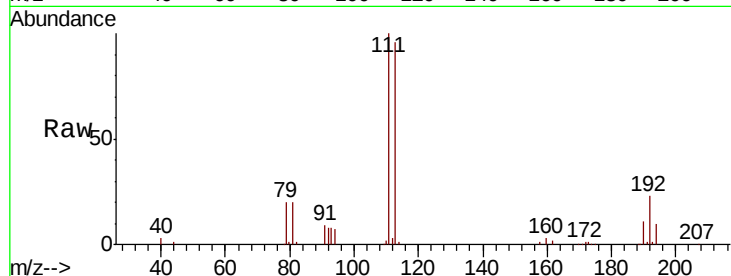




#35  
 Dibromofluoromethane  
 Concen: 52.177 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064895.D  
 Acq: 20 Jan 2020 17:30

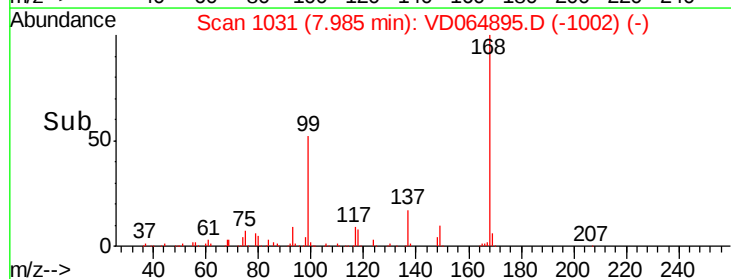
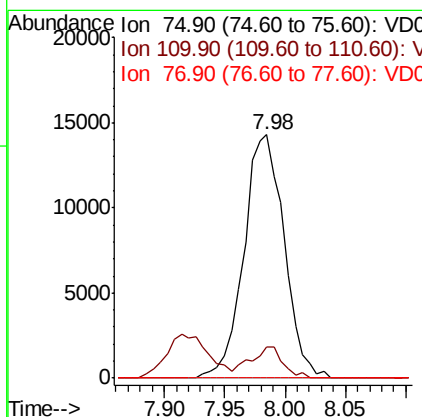
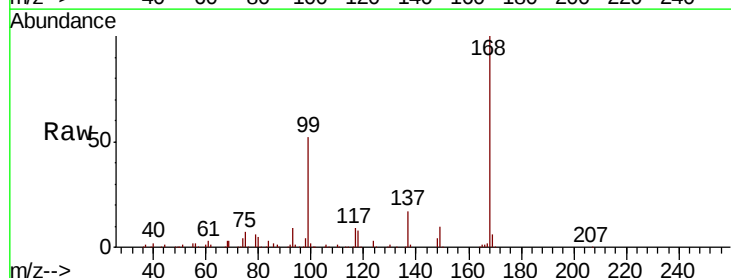
Instrument :  
 MSVOA\_D  
 ClientSampled :

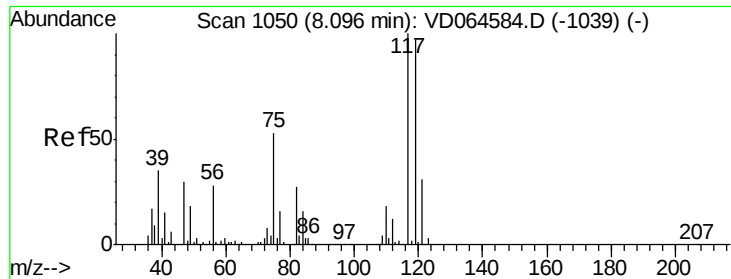
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 80.6  | 121.0 |
| 192     | 21.1  | 17.9  | 26.9  |



#36  
 1,1-Dichloropropene  
 Concen: 4.612 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD064895.D  
 Acq: 20 Jan 2020 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.5  | 18.1  | 54.1# |
| 77      | 0.0   | 24.2  | 36.4# |

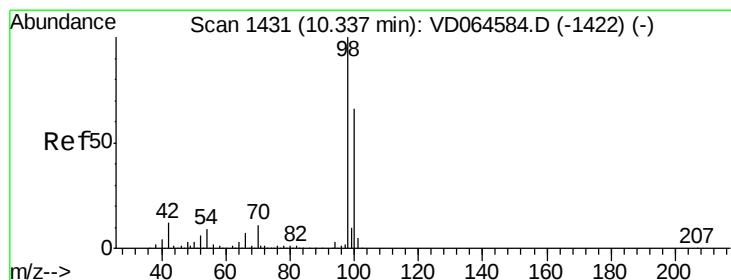
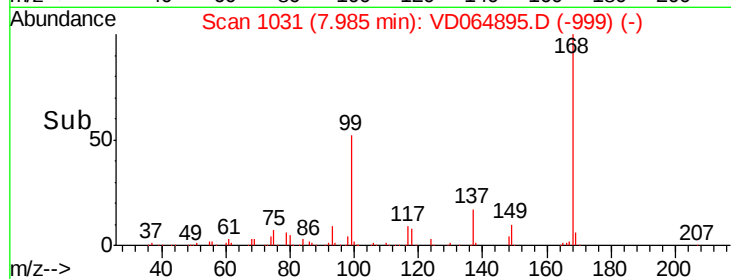
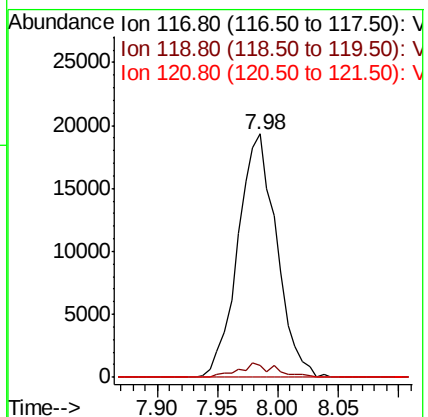
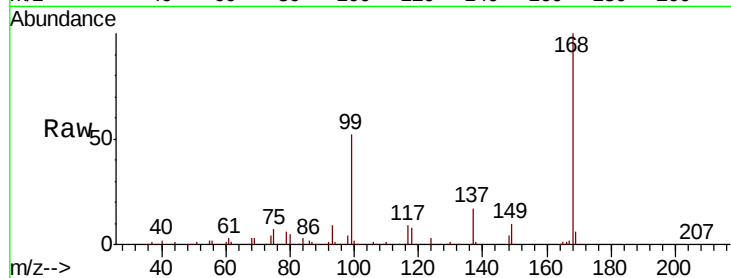




#38  
Carbon Tetrachloride  
Concen: 5.647 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD064895.D  
Acq: 20 Jan 2020 17:30

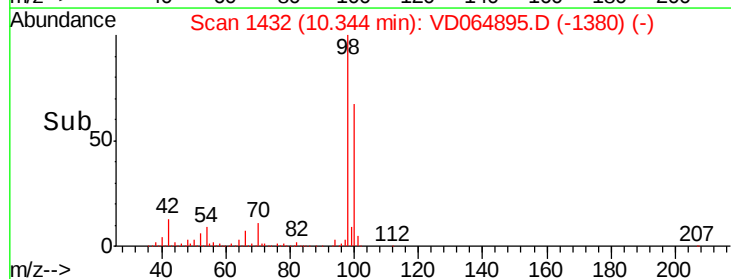
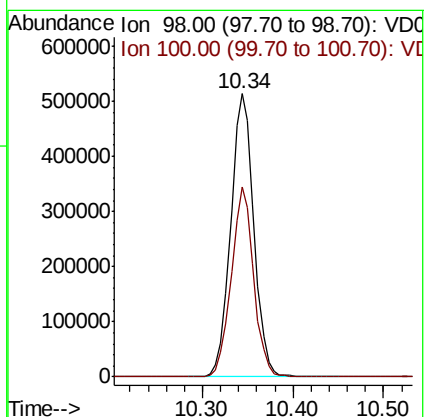
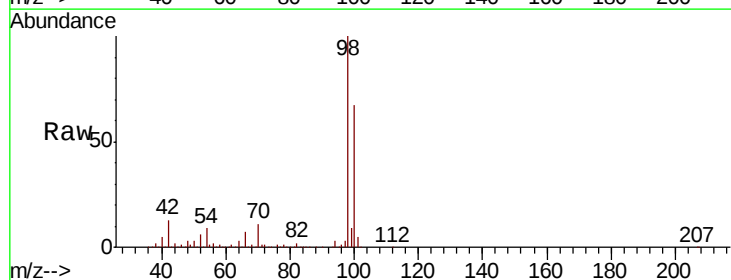
Instrument :  
MSVOA\_D  
ClientSampleId :

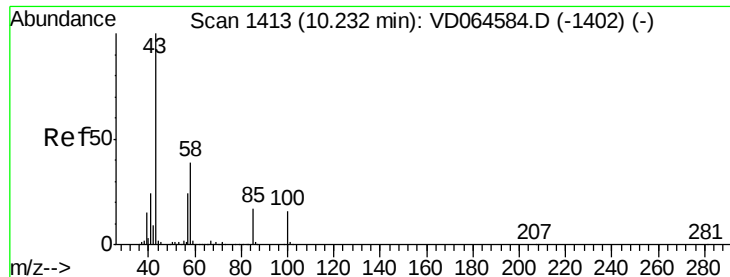
Tot Ion:117 Resp: 43157  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.3 115.9#  
121 0.0 25.0 37.6#



#50  
Toluene-d8  
Concen: 52.184 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.01 min  
Lab File: VD064895.D  
Acq: 20 Jan 2020 17:30

Tgt Ion: 98 Resp: 913010  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.518 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.12 min

Lab File: VD064895.D

Acq: 20 Jan 2020 17:30

Instrument :

MSVOA\_D

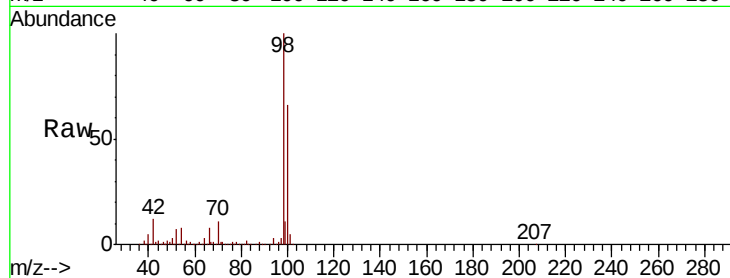
ClientSampleId :

Tot Ion: 43 Resp: 4206

Ion Ratio Lower Upper

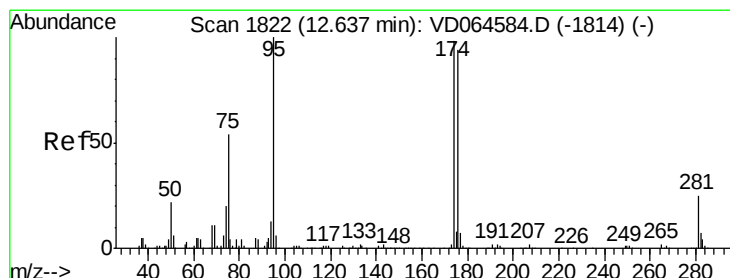
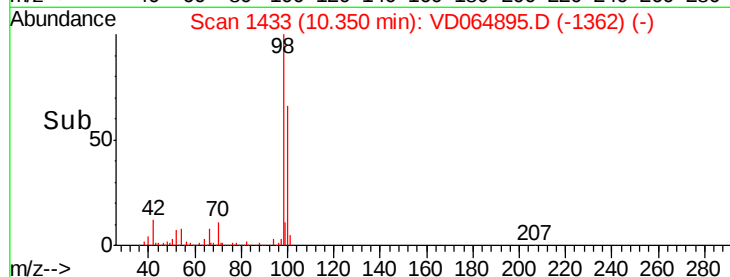
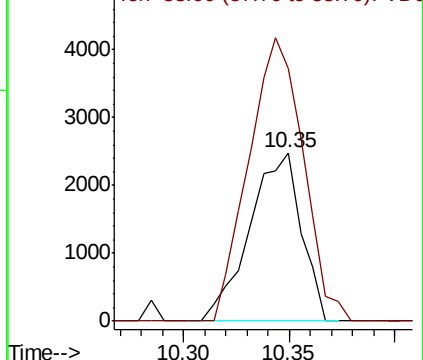
43 100

58 178.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 52.980 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064895.D

Acq: 20 Jan 2020 17:30

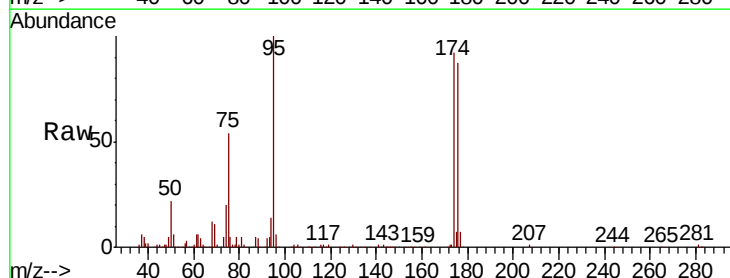
Tgt Ion: 95 Resp: 293105

Ion Ratio Lower Upper

95 100

174 92.3 0.0 193.2

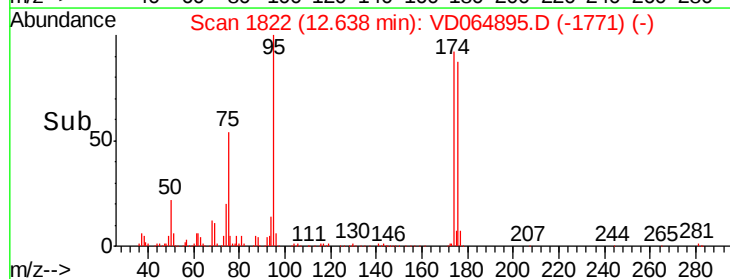
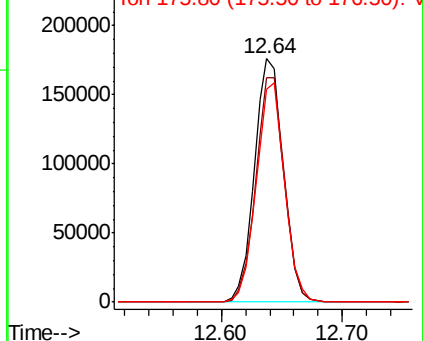
176 88.4 0.0 184.2

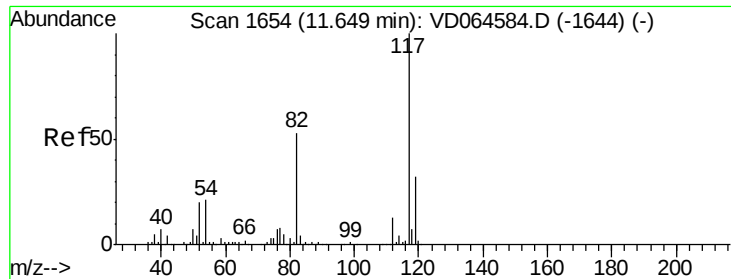


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

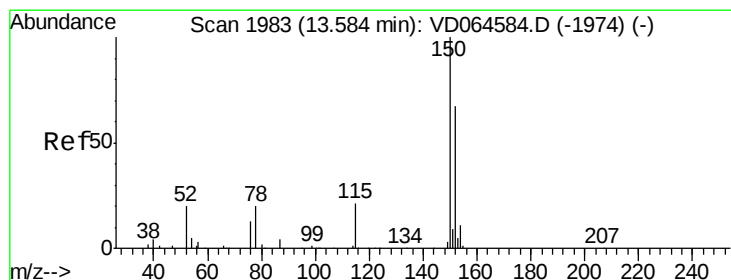
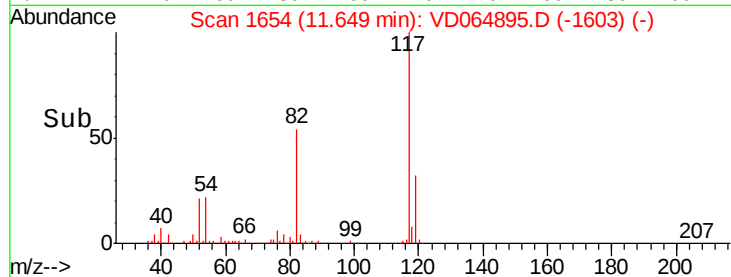
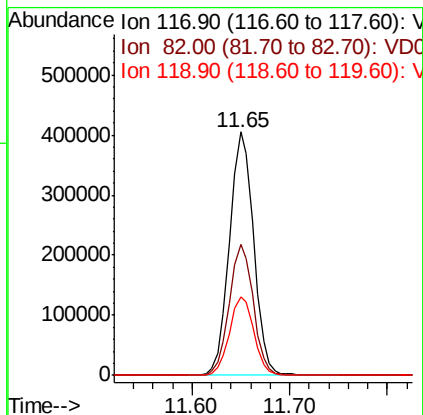
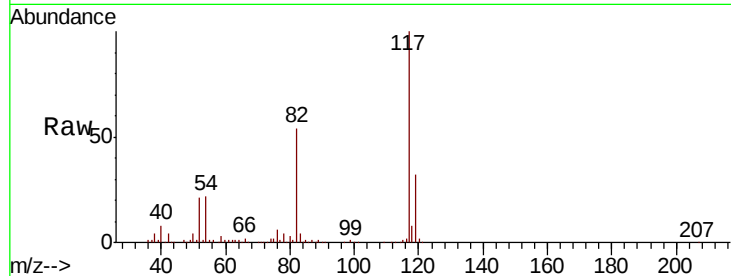




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064895.D  
Acq: 20 Jan 2020 17:30

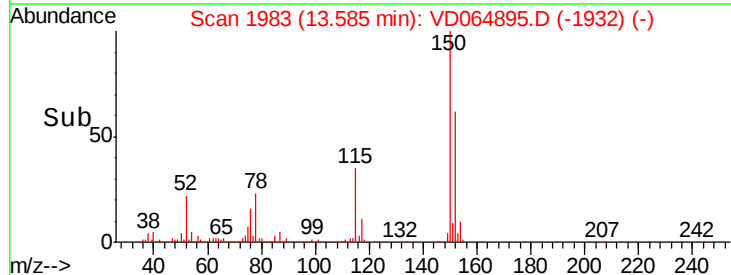
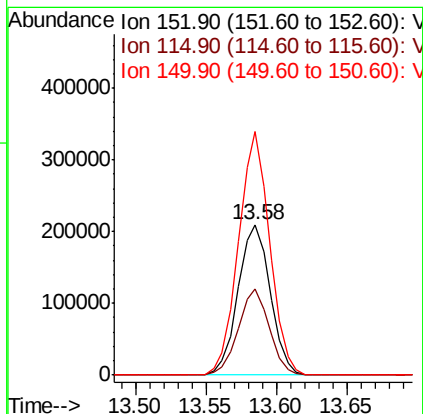
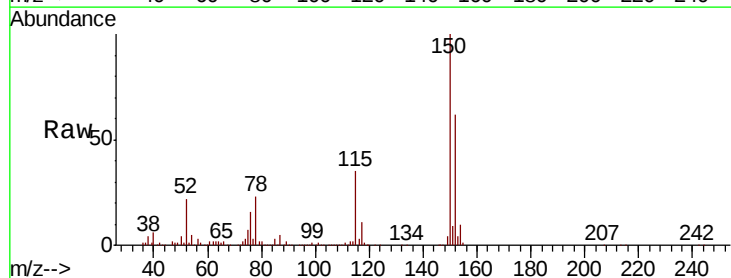
Instrument :  
MSVOA\_D  
ClientSampleId :

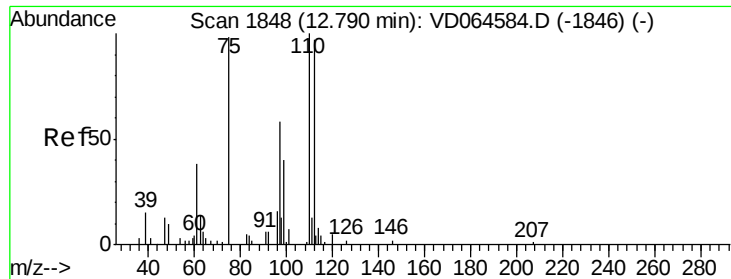
Tot Ion:117 Resp: 696686  
Ion Ratio Lower Upper  
117 100  
82 53.6 42.2 63.4  
119 32.5 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD064895.D  
Acq: 20 Jan 2020 17:30

Tgt Ion:152 Resp: 335398  
Ion Ratio Lower Upper  
152 100  
115 54.7 27.8 83.4  
150 156.1 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 59.317 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064895.D

Acq: 20 Jan 2020 17:30

Instrument :

MSVOA\_D

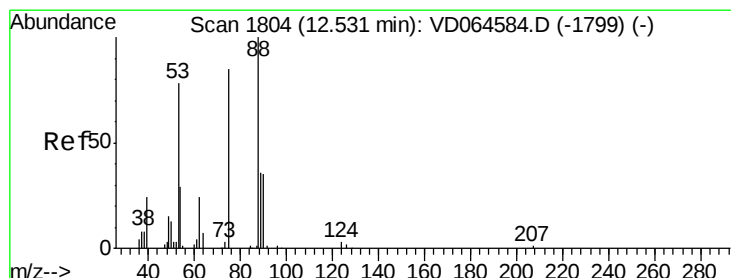
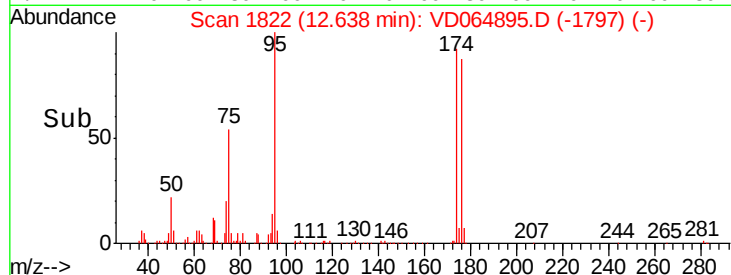
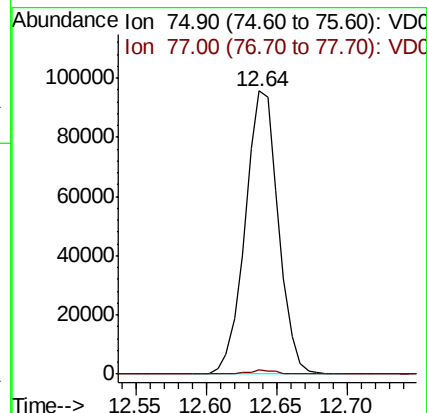
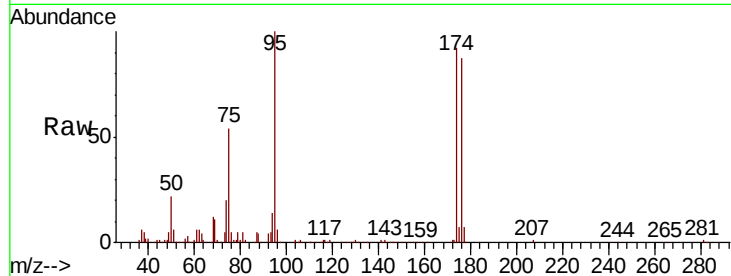
ClientSampled :

Tot Ion: 75 Resp: 157102

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 124.060 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064895.D

Acq: 20 Jan 2020 17:30

Tgt Ion: 75 Resp: 157102

Ion Ratio Lower Upper

75 100

53 0.1 78.8 118.2#

89 0.0 38.3 57.5#

