

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092220\  
 Data File : VD066812.D  
 Acq On : 22 Sep 2020 15:50  
 Operator : VA/SY  
 Sample : L4101-04  
 Misc : 4.07G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 2-4FT

Quant Time: Sep 23 02:08:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 421574   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 769304   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 747398   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 338804   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 260258   | 63.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 126.14% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 259186   | 52.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.92% |          |
| 50) Toluene-d8              | 10.34 | 98   | 938885   | 56.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.60% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 323941   | 56.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.50% |          |

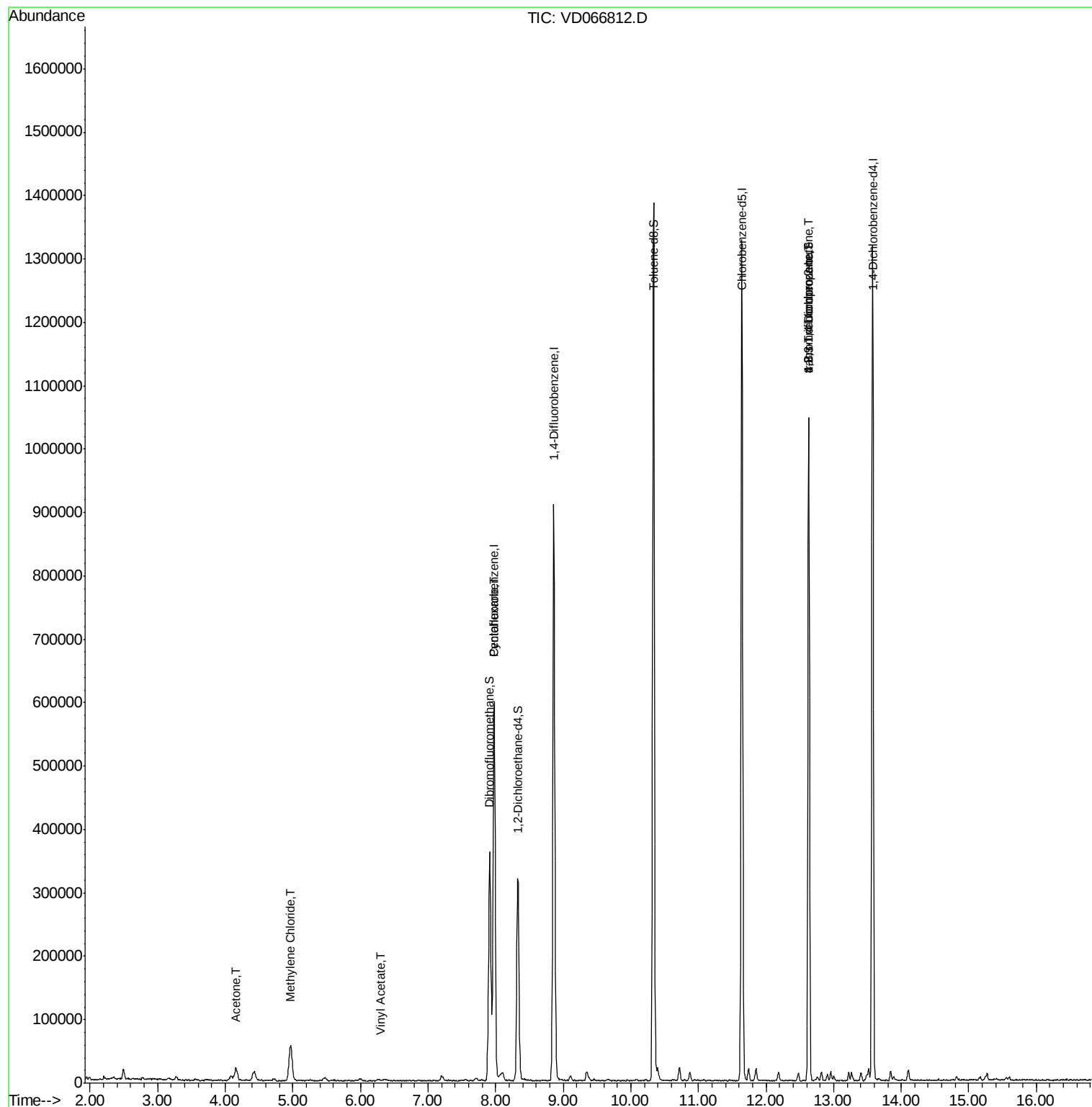
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 2669     | Below Cal |        | 86     |
| 11) Tert butyl alcohol         | 5.20  | 59   | 170      | Below Cal | #      | 72     |
| 16) Acetone                    | 4.15  | 43   | 37771    | 43.152    | ug/l # | 84     |
| 18) Methyl Acetate             | 4.73  | 43   | 193      | Below Cal | #      | 50     |
| 20) Methylene Chloride         | 4.96  | 84   | 45874    | 4.402     | ug/l   | 95     |
| 23) Vinyl Acetate              | 6.31  | 43   | 1097     | 2.832     | ug/l # | 71     |
| 31) Cyclohexane                | 7.98  | 56   | 14230    | 1.897     | ug/l # | 38     |
| 49) 1,4-Dioxane                | 9.45  | 88   | 59       | Below Cal | #      | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 172379   | 61.394    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 172379   | 153.603   | ug/l # | 10     |

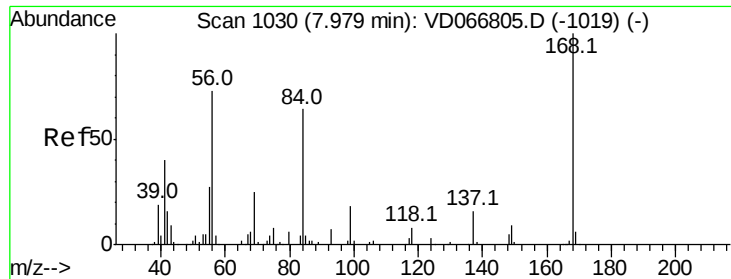
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092220\  
Data File : VD066812.D  
Acq On : 22 Sep 2020 15:50  
Operator : VA/SY  
Sample : L4101-04  
Misc : 4.07G/5.00ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampled :  
2-4FT

Quant Time: Sep 23 02:08:45 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 23 01:34:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066812.D

Acq: 22 Sep 2020 15:50

Instrument :

MSVOA\_D

ClientSampleId :

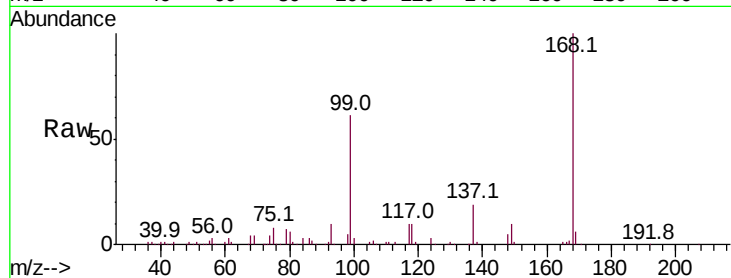
2-4FT

Tot Ion:168 Resp: 421574

Ion Ratio Lower Upper

168 100

99 60.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

100000

50000

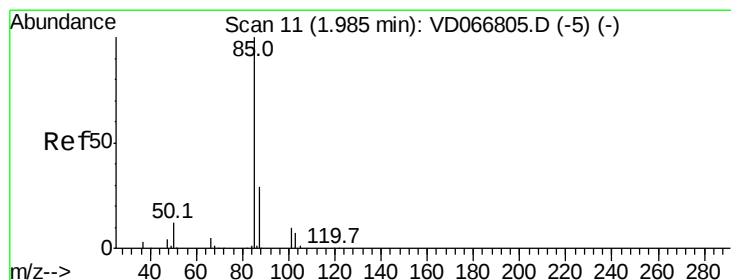
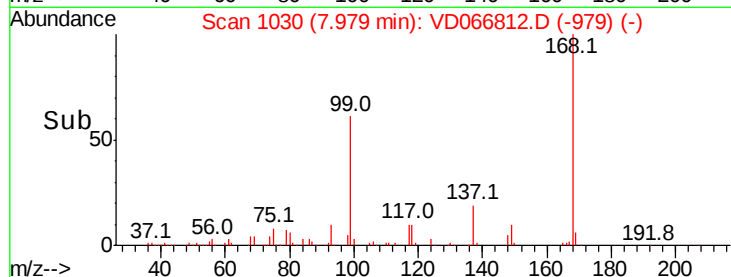
0

Time-->

7.90

8.00

8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066812.D

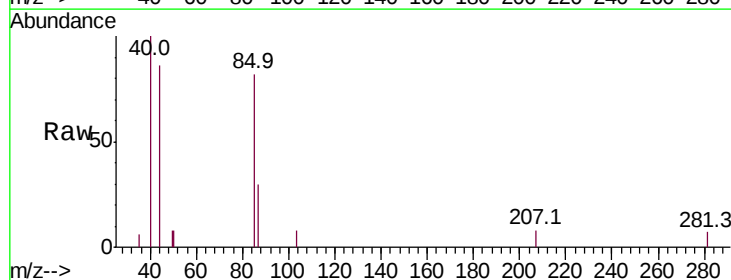
Acq: 22 Sep 2020 15:50

Tgt Ion: 85 Resp: 2669

Ion Ratio Lower Upper

85 100

87 36.6 14.5 43.5



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

2500

2000

1500

1000

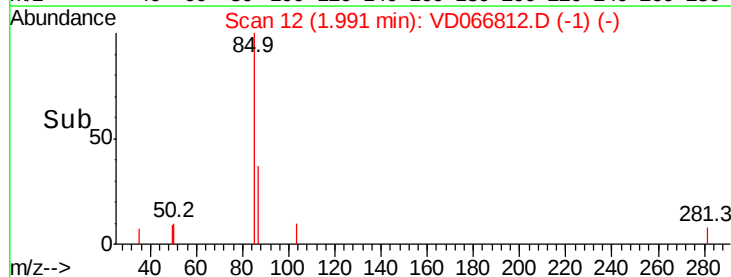
500

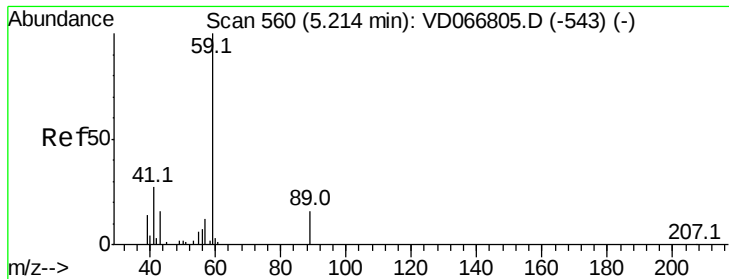
0

Time-->

1.95

2.00



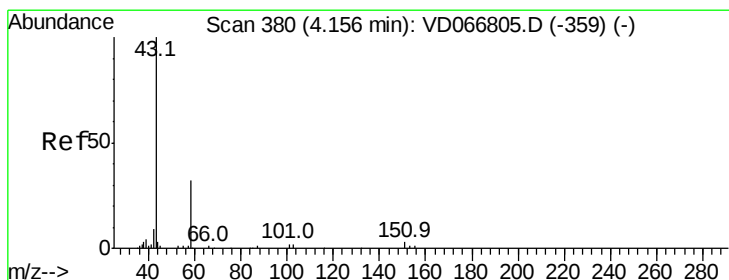
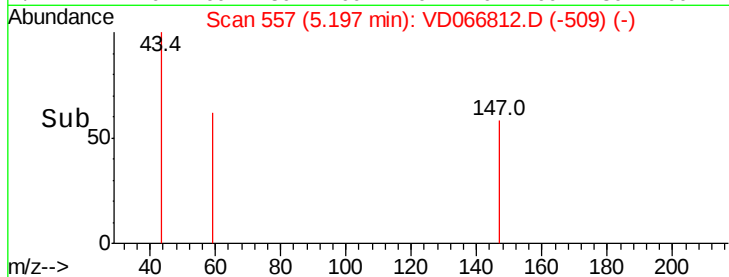
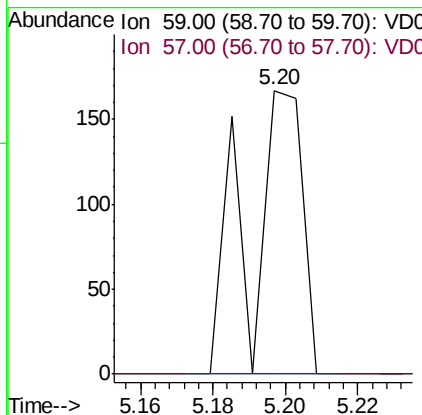
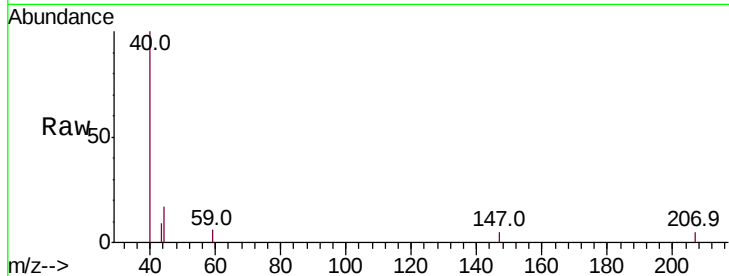


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.20 min Scan# 557  
 Delta R.T. -0.02 min  
 Lab File: VD066812.D  
 Acq: 22 Sep 2020 15:50

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 2-4FT

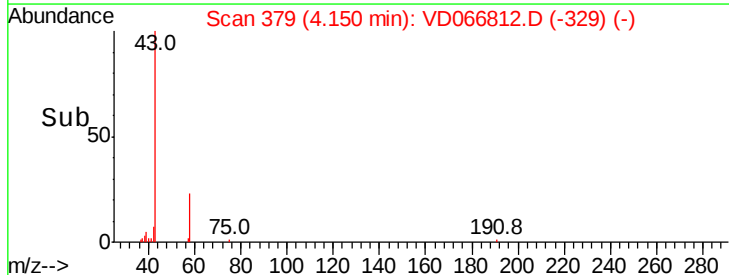
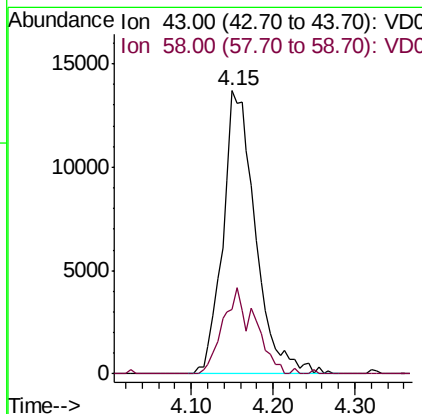
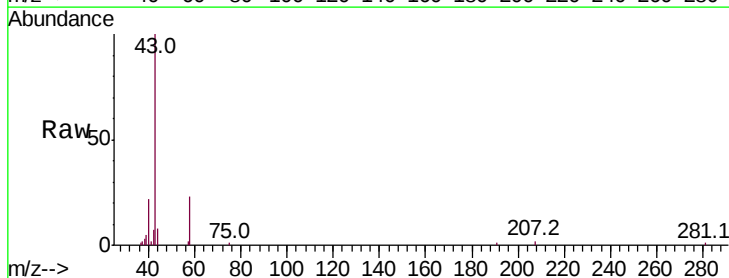
Tot Ion: 59 Resp: 170  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.3 12.5#

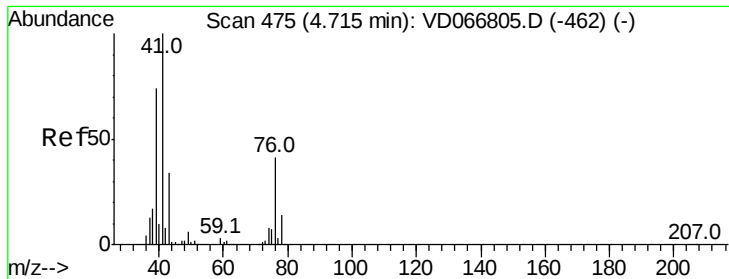


#16

Acetone  
 Concen: 43.152 ug/l  
 RT: 4.15 min Scan# 379  
 Delta R.T. -0.01 min  
 Lab File: VD066812.D  
 Acq: 22 Sep 2020 15:50

Tgt Ion: 43 Resp: 37771  
 Ion Ratio Lower Upper  
 43 100  
 58 23.0 25.6 38.4#

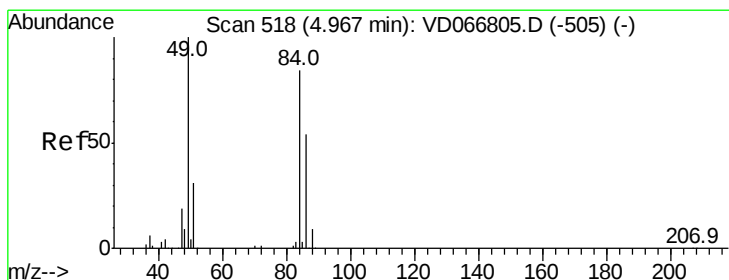
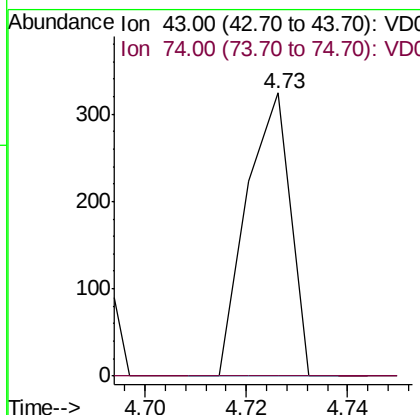
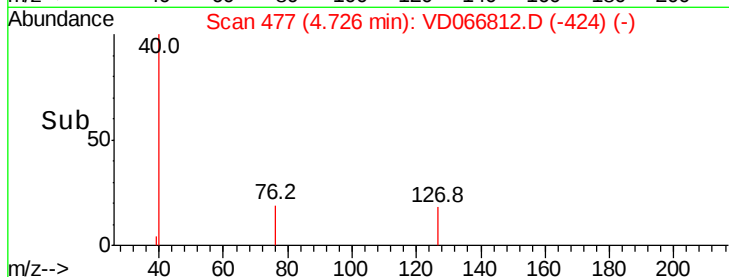
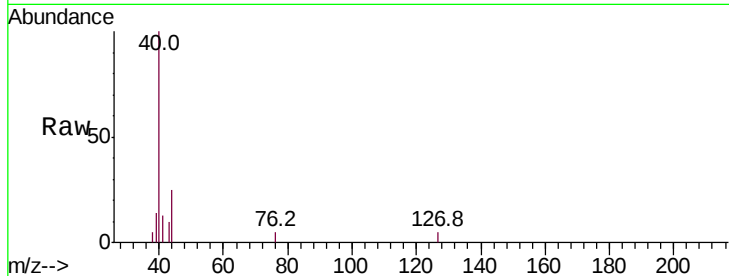




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.73 min Scan# 477  
Delta R.T. 0.01 min  
Lab File: VD066812.D  
Acq: 22 Sep 2020 15:50

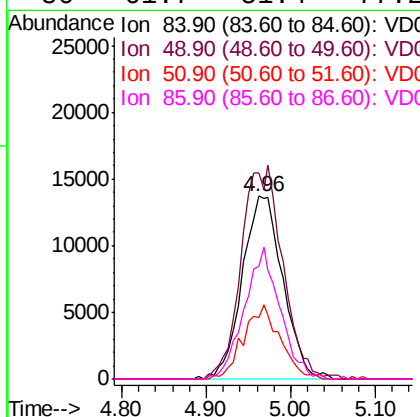
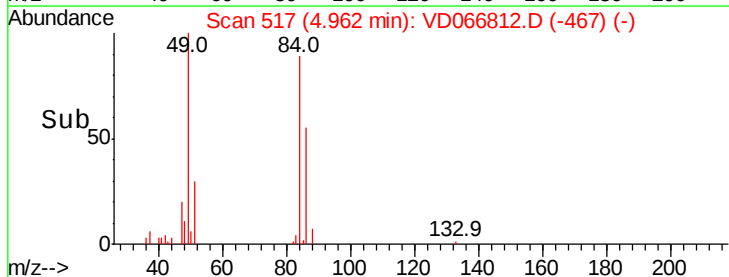
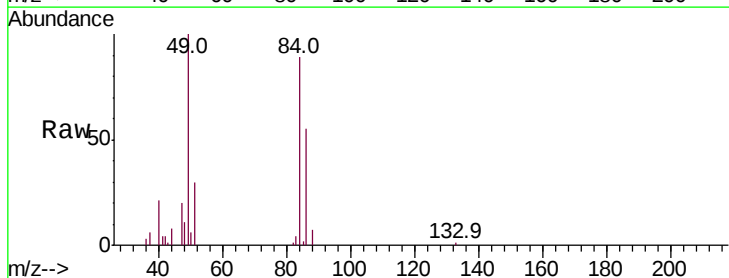
Instrument :  
MSVOA\_D  
ClientSampleId :  
2-4FT

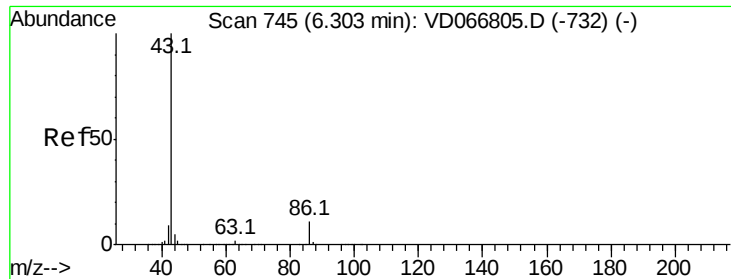
Tot Ion: 43 Resp: 193  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.3 30.5#



#20  
Methylene Chloride  
Concen: 4.402 ug/l  
RT: 4.96 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VD066812.D  
Acq: 22 Sep 2020 15:50

Tgt Ion: 84 Resp: 45874  
Ion Ratio Lower Upper  
84 100  
49 113.0 95.4 143.2  
51 34.0 29.7 44.5  
86 61.7 51.4 77.2





#23

Vinyl Acetate

Concen: 2.832 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.01 min

Lab File: VD066812.D

Acq: 22 Sep 2020 15:50

Instrument :

MSVOA\_D

ClientSampleId :

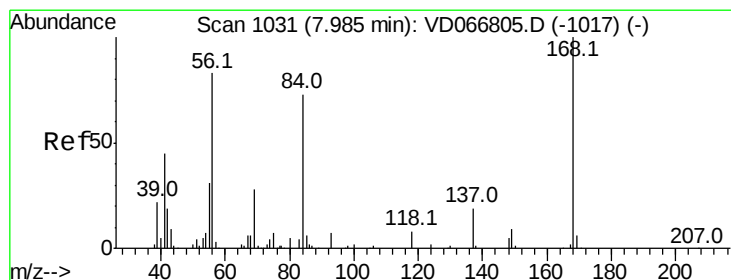
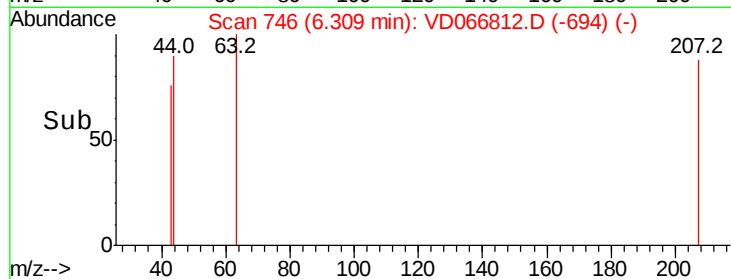
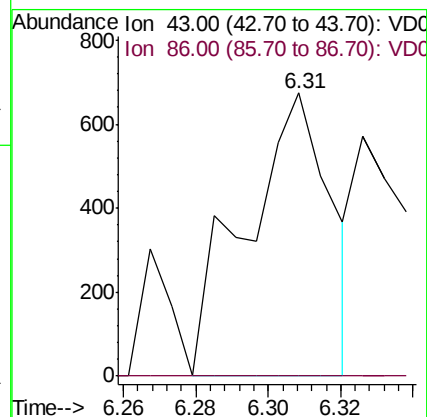
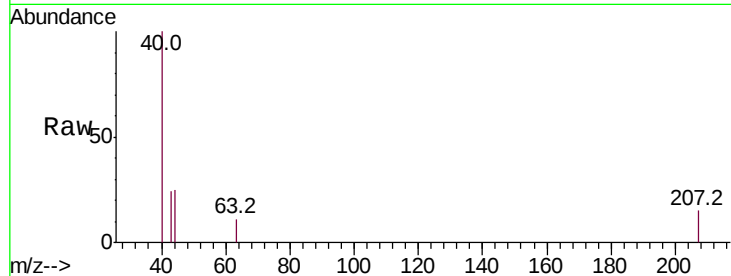
2-4FT

Tot Ion: 43 Resp: 1097

Ion Ratio Lower Upper

43 100

86 0.0 8.9 13.3#



#31

Cyclohexane

Concen: 1.897 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066812.D

Acq: 22 Sep 2020 15:50

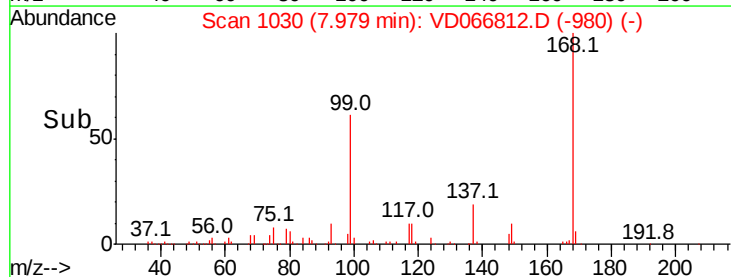
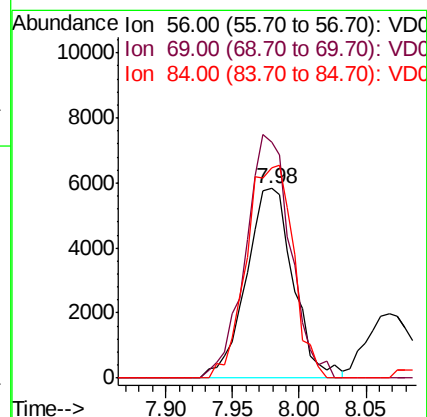
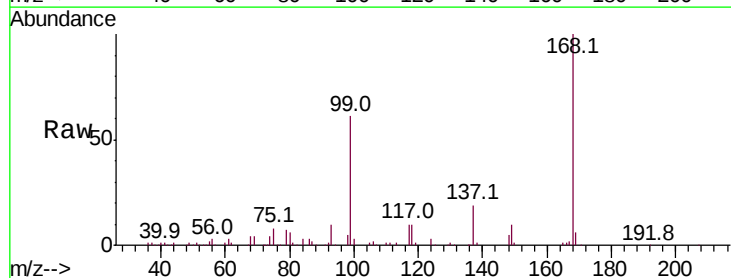
Tgt Ion: 56 Resp: 14230

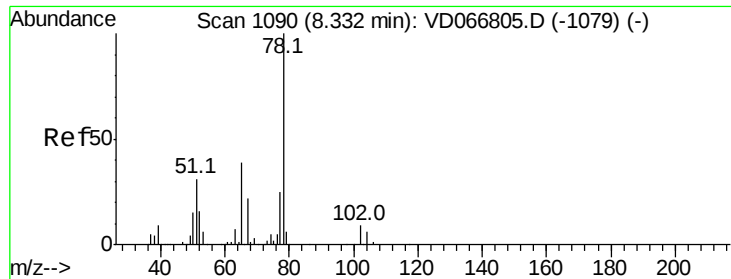
Ion Ratio Lower Upper

56 100

69 124.0 27.0 40.4#

84 111.1 70.2 105.4#





#33

1,2-Dichloroethane-d4

Concen: 63.075 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

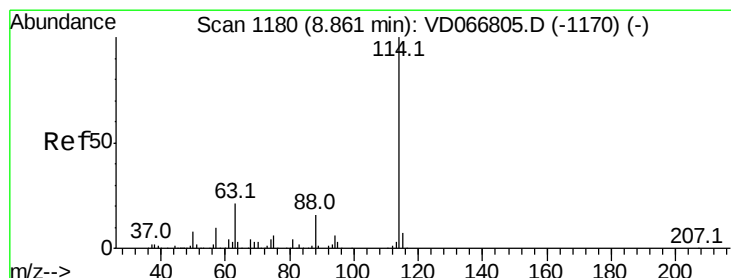
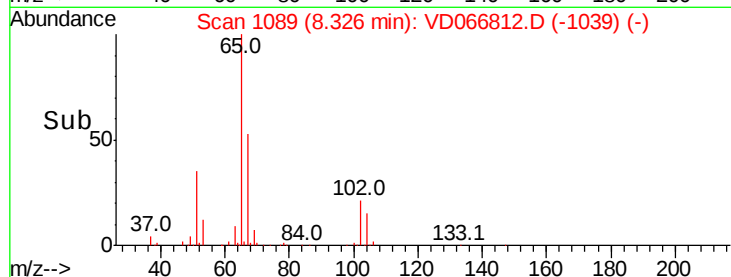
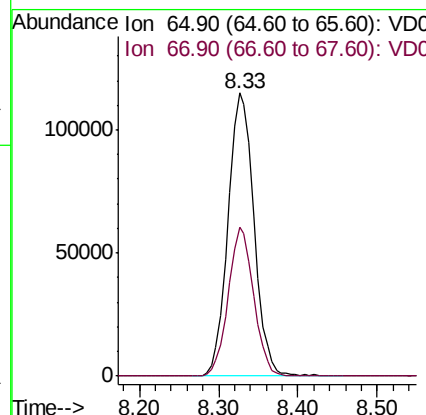
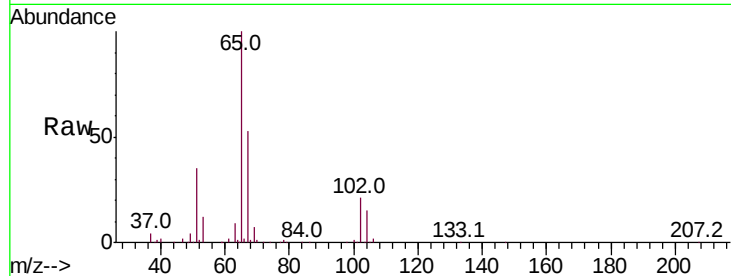
Lab File: VD066812.D

Acq: 22 Sep 2020 15:50

Instrument :  
MSVOA\_D  
ClientSampleId :  
2-4FT

Tot Ion: 65 Resp: 260258

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 51.3  | 0.0   | 107.2 |



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

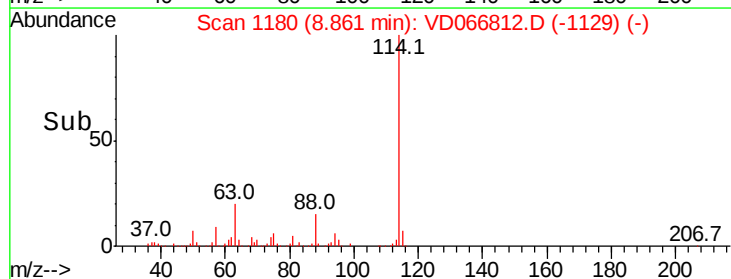
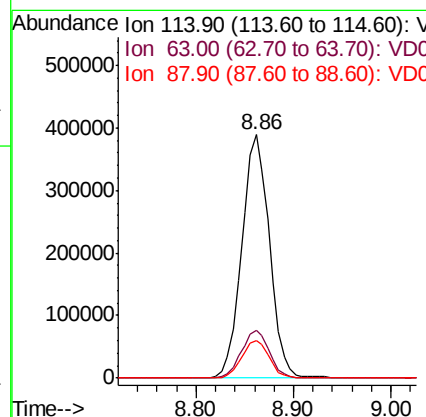
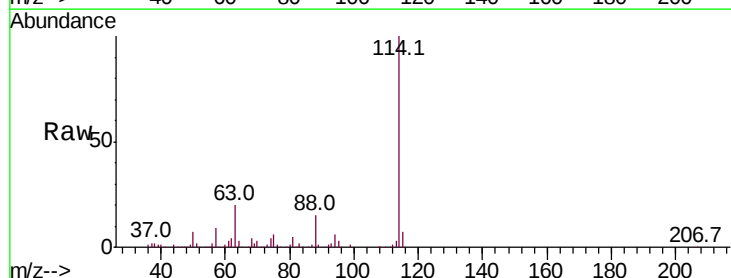
Delta R.T. 0.00 min

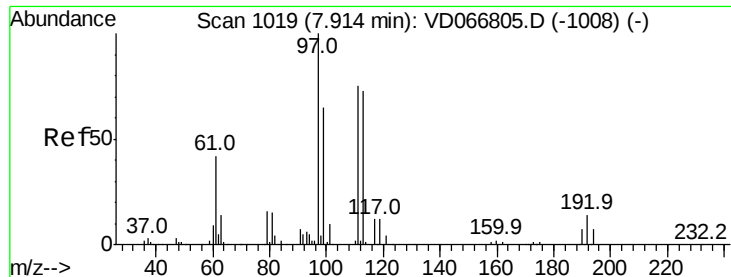
Lab File: VD066812.D

Acq: 22 Sep 2020 15:50

Tgt Ion: 114 Resp: 769304

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 19.7  | 0.0   | 42.6  |
| 88  | 15.4  | 0.0   | 32.6  |

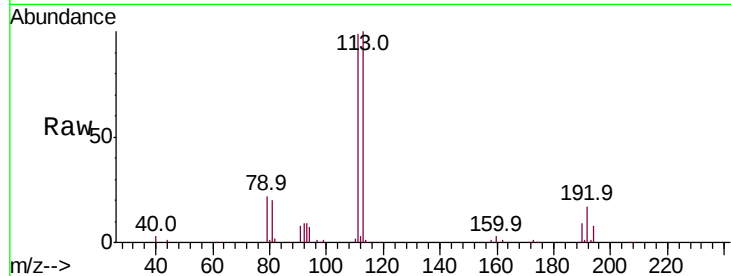




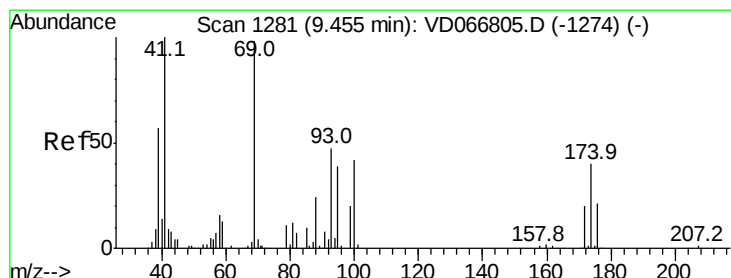
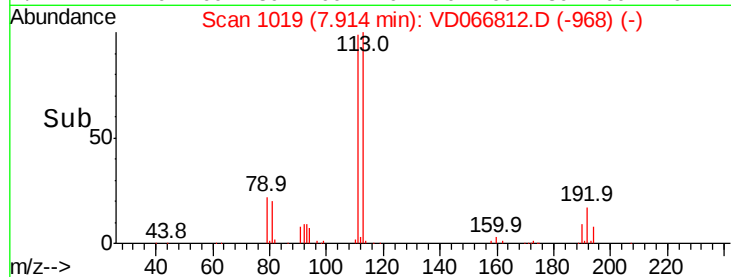
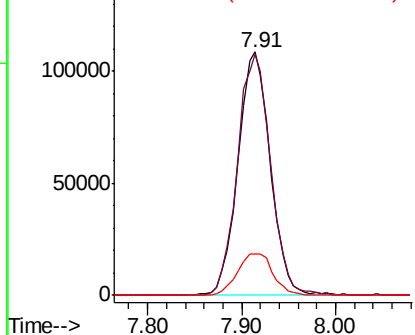
#35  
 Dibromofluoromethane  
 Concen: 52.957 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.00 min  
 Lab File: VD066812.D  
 Acq: 22 Sep 2020 15:50

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 2-4FT

Tot Ion:113 Resp: 259186  
 Ion Ratio Lower Upper  
 113 100  
 111 101.6 81.8 122.8  
 192 18.8 14.4 21.6

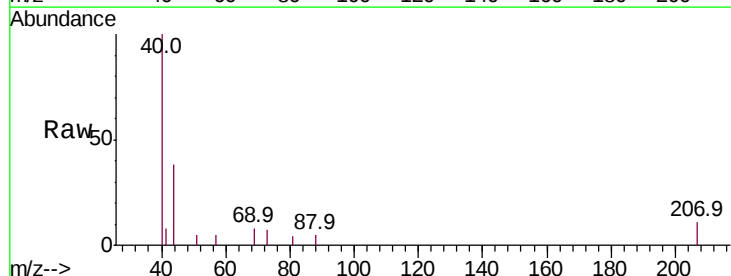


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

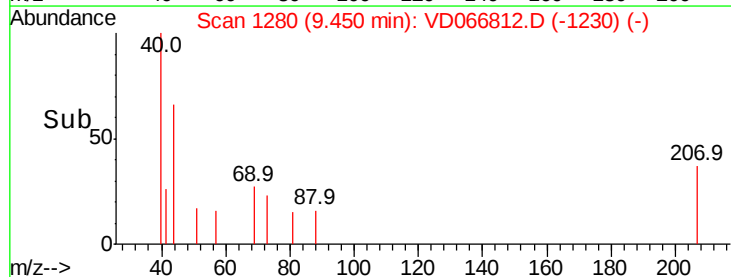
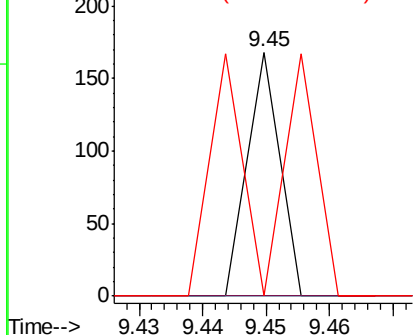


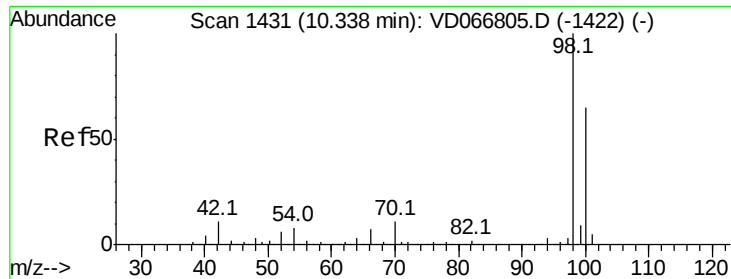
#49  
 1,4-Dioxane  
 Concen: Below Cal  
 RT: 9.45 min Scan# 1280  
 Delta R.T. -0.01 min  
 Lab File: VD066812.D  
 Acq: 22 Sep 2020 15:50

Tgt Ion: 88 Resp: 59  
 Ion Ratio Lower Upper  
 88 100  
 43 0.0 27.7 41.5#  
 58 200.0 55.5 83.3#



Abundance Ion 88.00 (87.70 to 88.70): VDC  
 Ion 43.00 (42.70 to 43.70): VDC  
 Ion 58.00 (57.70 to 58.70): VDC





#50

Toluene-d8

Concen: 56.302 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066812.D

Acq: 22 Sep 2020 15:50

Instrument :

MSVOA\_D

ClientSampleId :

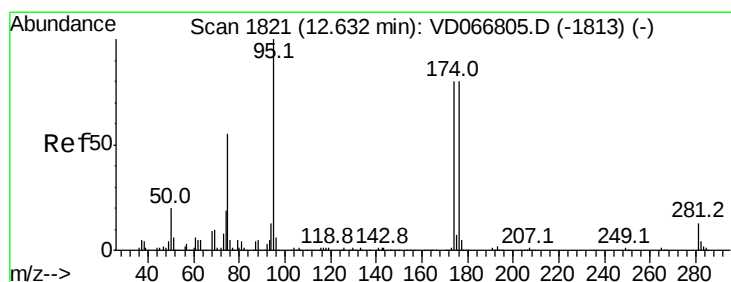
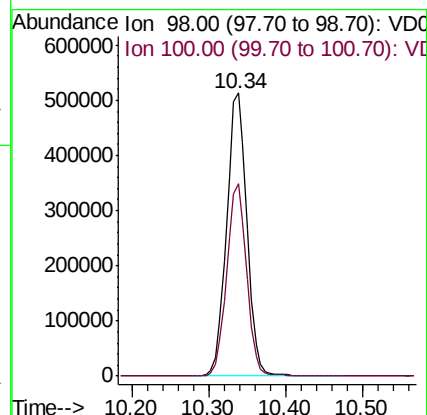
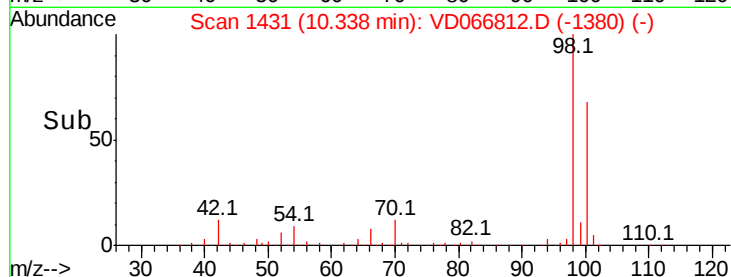
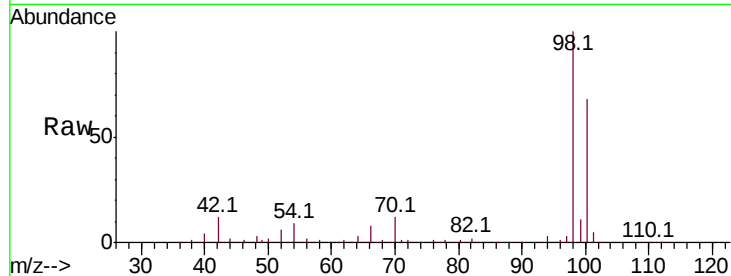
2-4FT

Tot Ion: 98 Resp: 93885

Ion Ratio Lower Upper

98 100

100 66.8 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 56.745 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066812.D

Acq: 22 Sep 2020 15:50

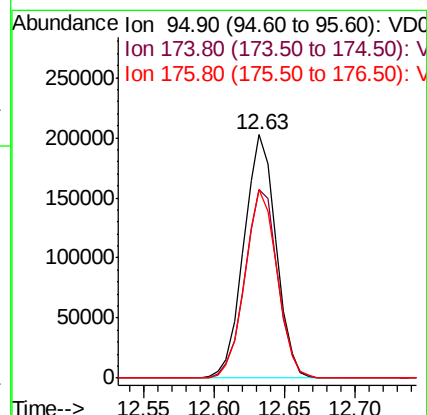
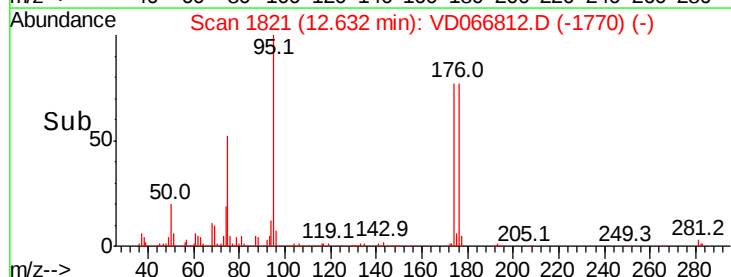
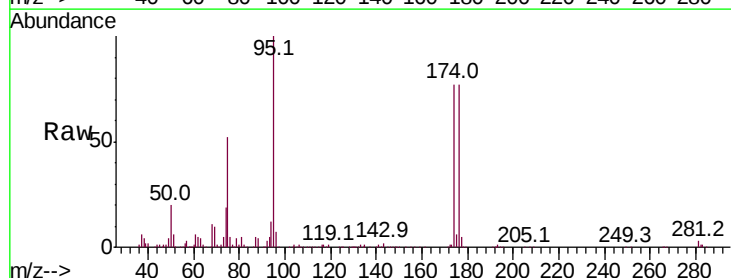
Tgt Ion: 95 Resp: 323941

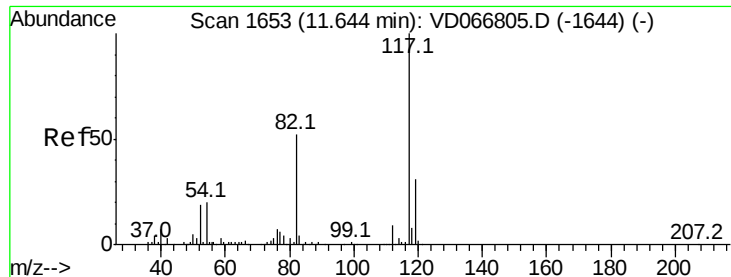
Ion Ratio Lower Upper

95 100

174 78.9 0.0 159.8

176 77.5 0.0 154.4

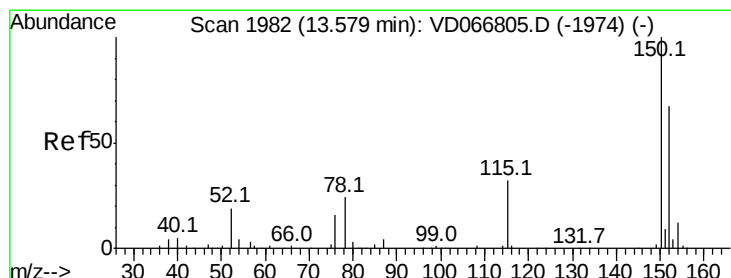
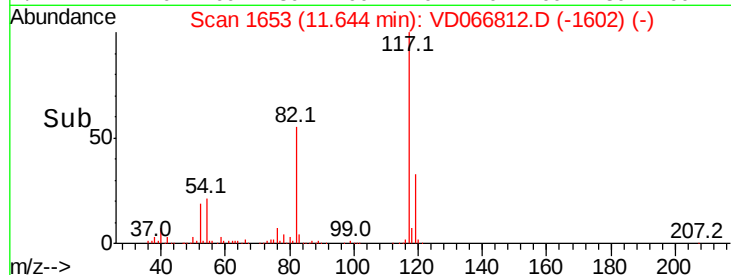
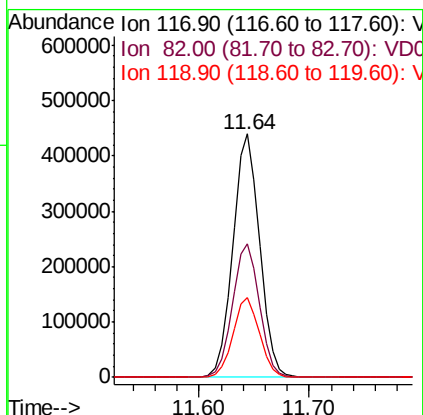
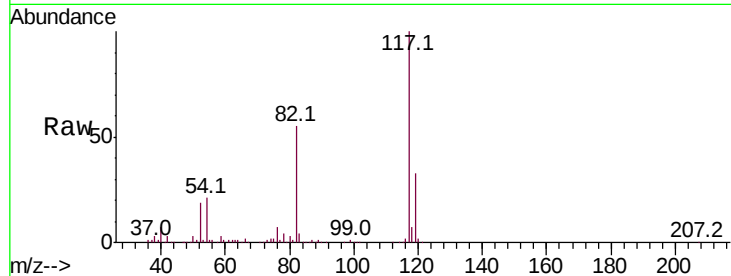




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066812.D  
Acq: 22 Sep 2020 15:50

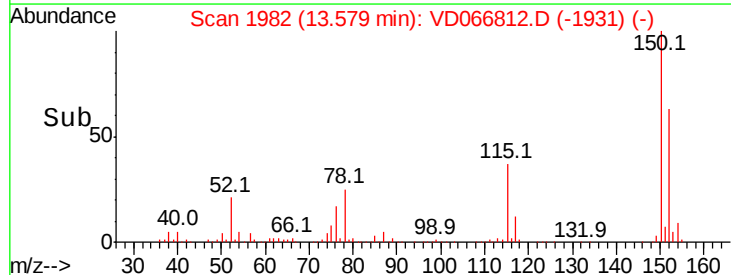
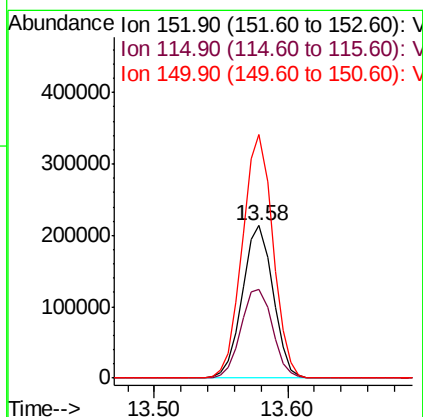
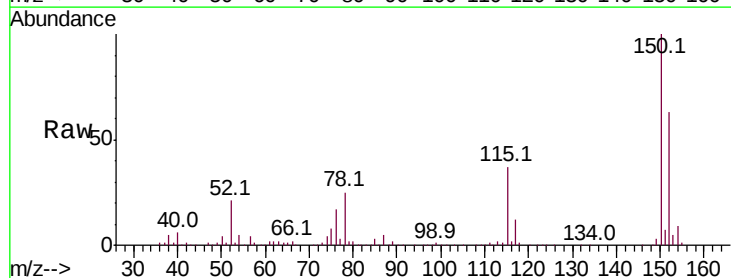
Instrument :  
MSVOA\_D  
ClientSampled :  
2-4FT

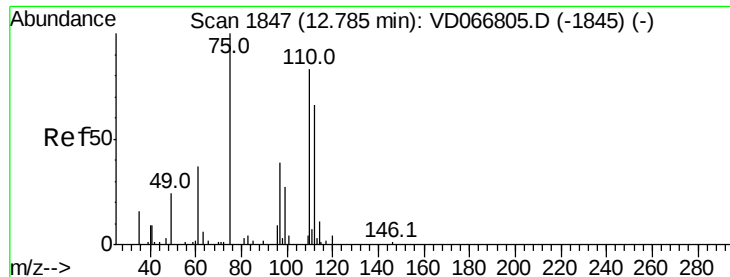
Tot Ion:117 Resp: 747398  
Ion Ratio Lower Upper  
117 100  
82 54.9 41.8 62.6  
119 33.0 24.6 37.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD066812.D  
Acq: 22 Sep 2020 15:50

Tgt Ion:152 Resp: 338804  
Ion Ratio Lower Upper  
152 100  
115 60.2 30.3 91.0  
150 159.5 0.0 346.2





#76

1,2,3-Trichloropropane

Concen: 61.394 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066812.D

Acq: 22 Sep 2020 15:50

Instrument :

MSVOA\_D

ClientSampleId :

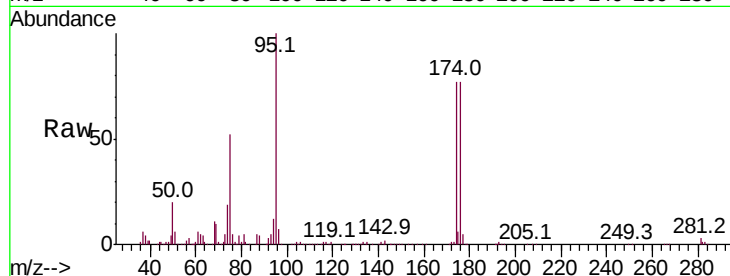
2-4FT

Tot Ion: 75 Resp: 172379

Ion Ratio Lower Upper

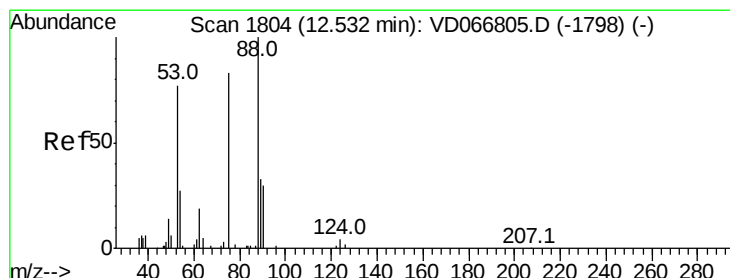
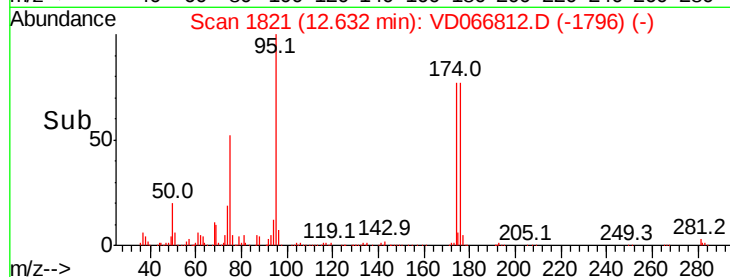
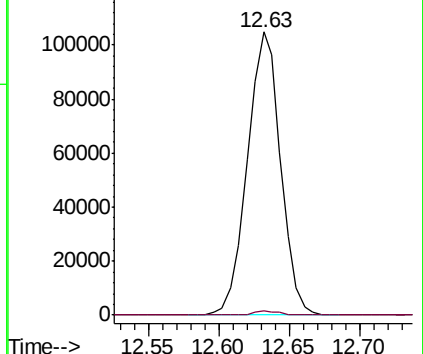
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 153.603 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066812.D

Acq: 22 Sep 2020 15:50

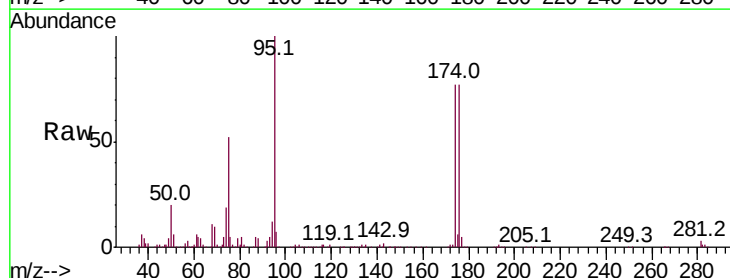
Tgt Ion: 75 Resp: 172379

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.0 38.1 57.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

