

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082520\  
 Data File : VD066406.D  
 Acq On : 25 Aug 2020 17:01  
 Operator : VA/SY  
 Sample : L3784-16  
 Misc : 4.61G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RO-04

Quant Time: Aug 26 08:05:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:36:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 161766   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 233659   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 219165   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 111618   | 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   | 88813    | 56.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.00% |          |
| 35) Dibromofluoromethane    | 7.90  | 113  | 77821    | 53.26 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 106.52% |          |
| 50) Toluene-d8              | 10.34 | 98   | 278230   | 52.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.10% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 92488    | 48.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.52%  |          |

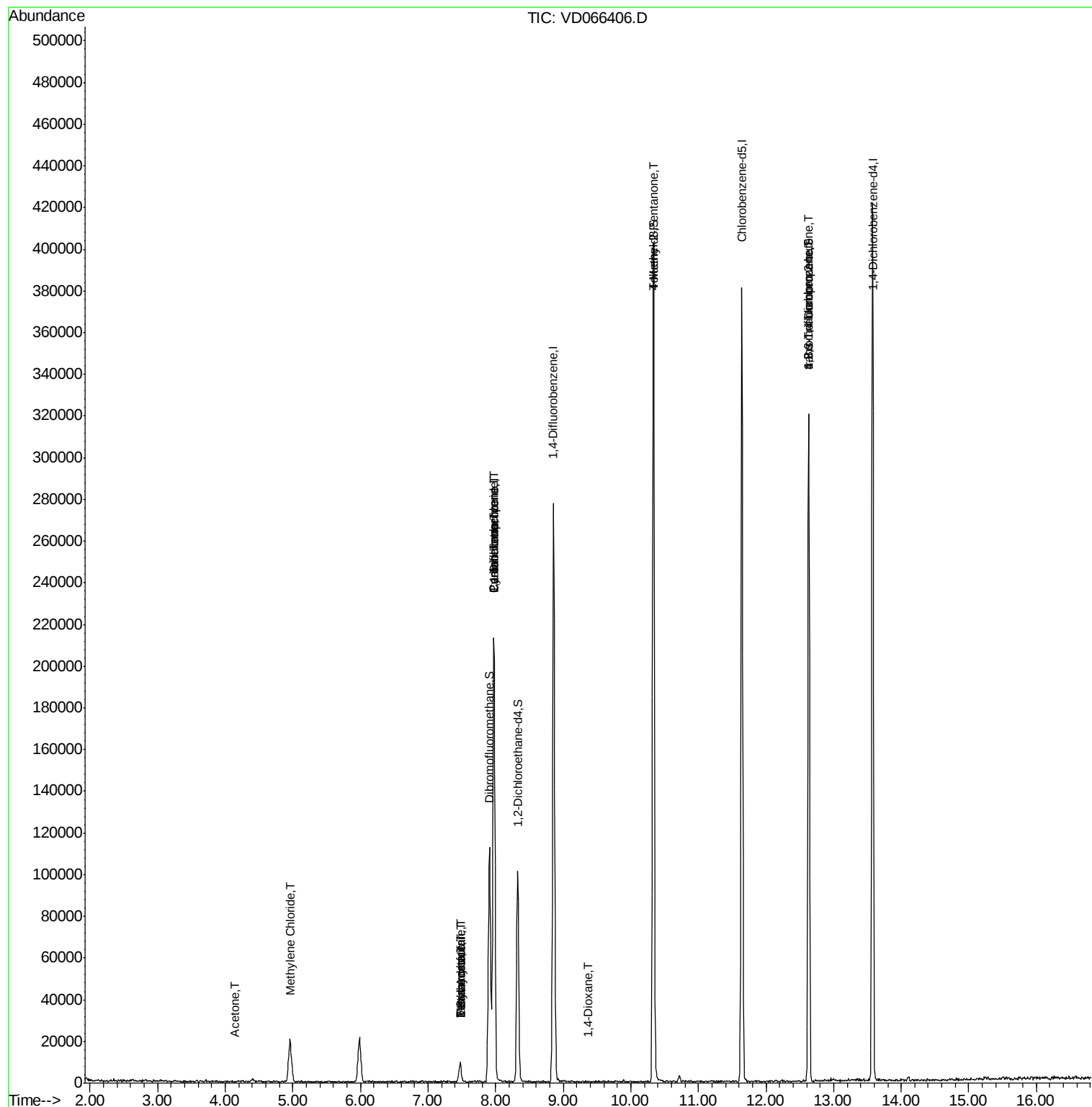
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 4.16  | 43   | 307      | 1.074   | ug/l # | 46     |
| 20) Methylene Chloride         | 4.97  | 84   | 14877    | 3.898   | ug/l # | 87     |
| 25) 2-Butanone                 | 7.48  | 43   | 5289     | 16.294  | ug/l # | 47     |
| 29) Tetrahydrofuran            | 7.48  | 42   | 1463     | 7.935   | ug/l # | 28     |
| 31) Cyclohexane                | 7.97  | 56   | 3586     | 1.628   | ug/l # | 29     |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 10859    | 5.093   | ug/l # | 52     |
| 37) Ethyl Acetate              | 7.48  | 43   | 6185     | 8.530   | ug/l # | 67     |
| 38) Carbon Tetrachloride       | 7.97  | 117  | 16259    | 5.854   | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.48  | 41   | 5095     | 11.394  | ug/l # | 82     |
| 49) 1,4-Dioxane                | 9.37  | 88   | 55       | 5.983   | ug/l # | 29     |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 1005     | 1.427   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 53849    | 68.577  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 53849    | 145.566 | ug/l # | 6      |

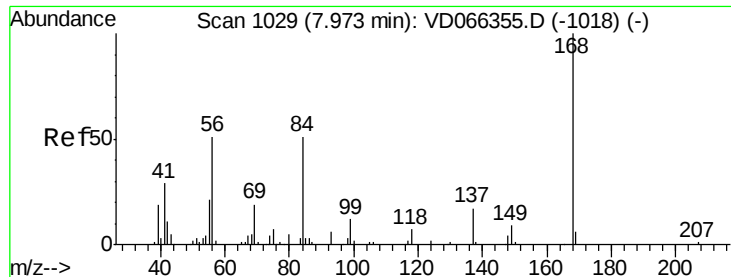
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD082520\  
Data File : VD066406.D  
Acq On : 25 Aug 2020 17:01  
Operator : VA/SY  
Sample : L3784-16  
Misc : 4.61G/5.00ml/MSVOA D/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
RO-04

Quant Time: Aug 26 08:05:27 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 13:36:12 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066406.D

Acq: 25 Aug 2020 17:01

Instrument :

MSVOA\_D

ClientSampled :

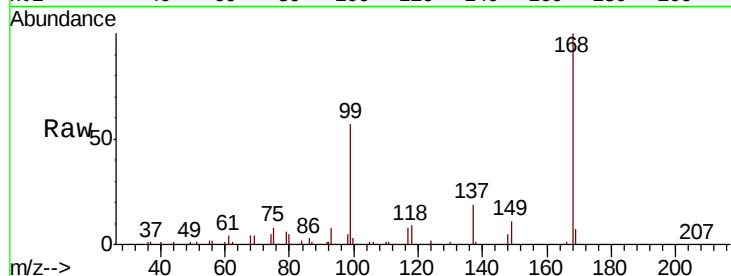
RO-04

Tot Ion:168 Resp: 161766

Ion Ratio Lower Upper

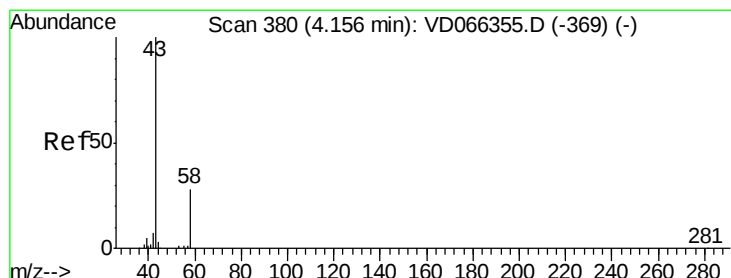
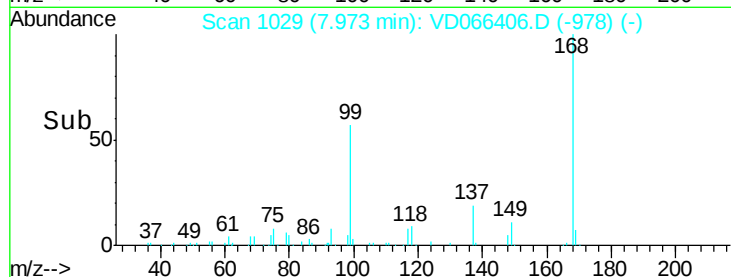
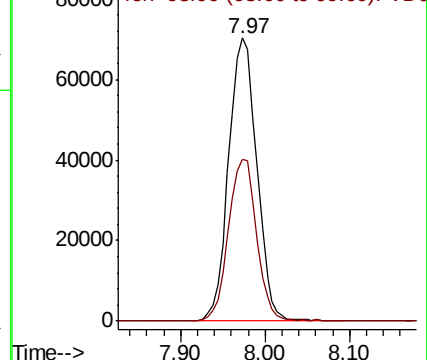
168 100

99 57.4 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 1.074 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD066406.D

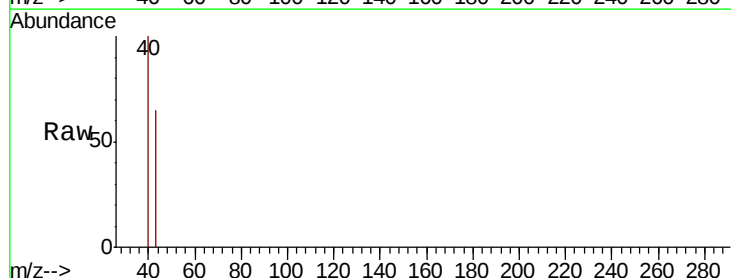
Acq: 25 Aug 2020 17:01

Tgt Ion: 43 Resp: 307

Ion Ratio Lower Upper

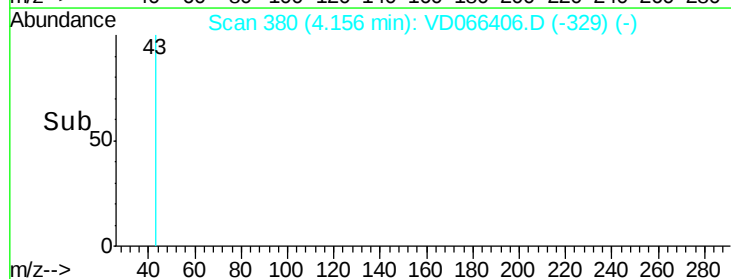
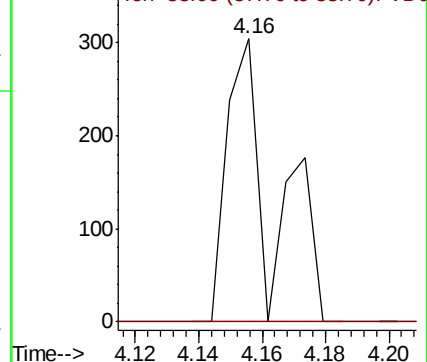
43 100

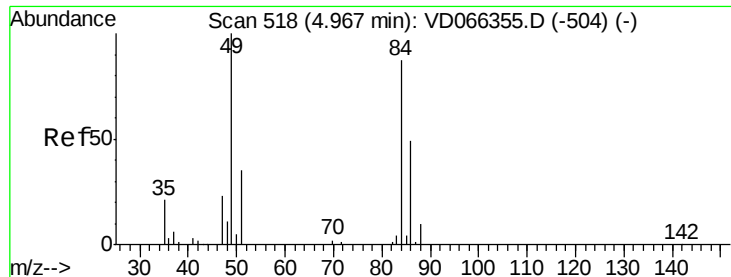
58 0.0 22.7 34.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

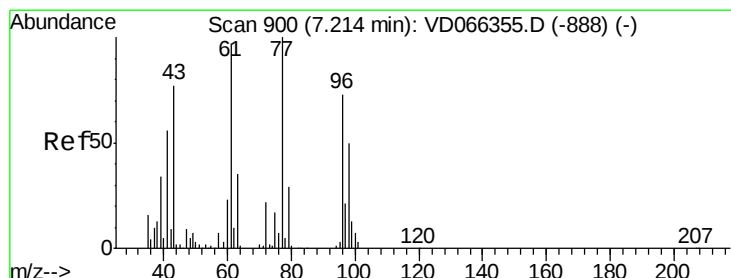
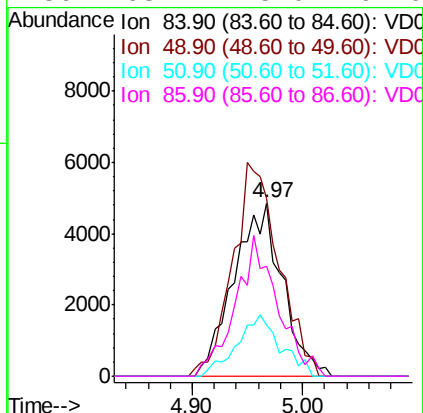
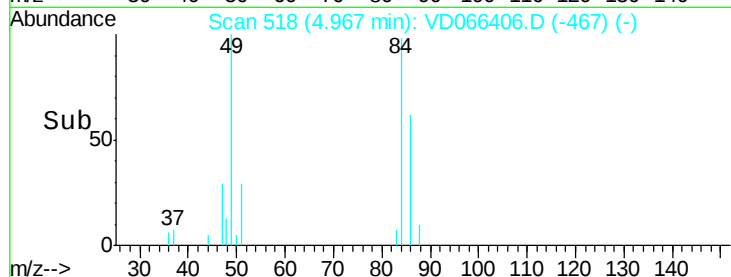
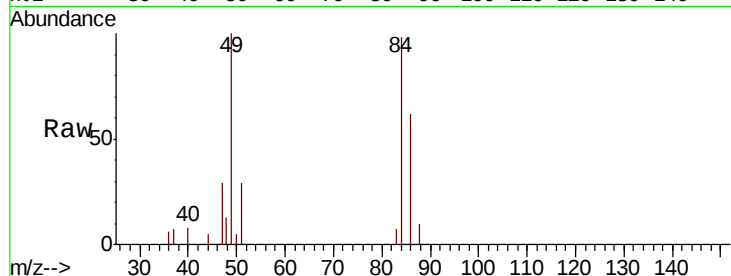




#20  
Methvlene Chloride  
Concen: 3.898 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: VD066406.D  
Acq: 25 Aug 2020 17:01

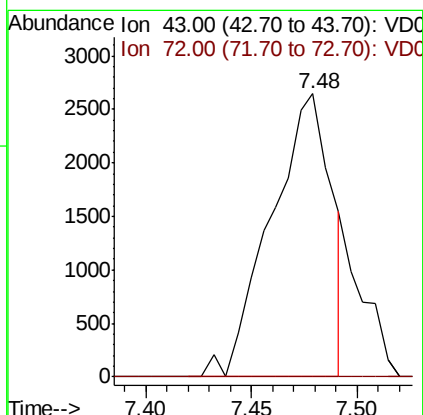
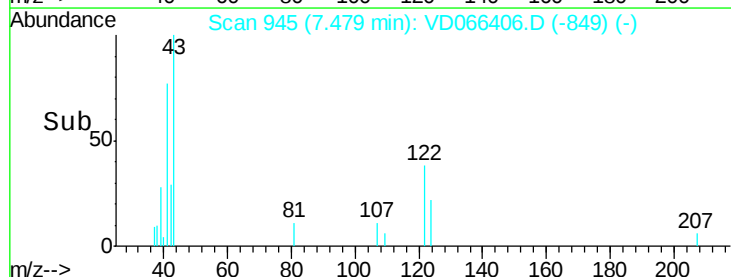
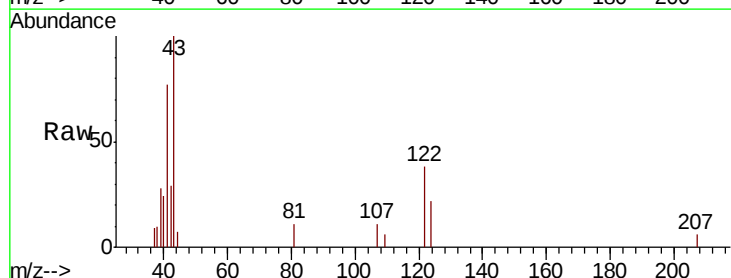
Instrument :  
MSVOA\_D  
ClientSampleId :  
RO-04

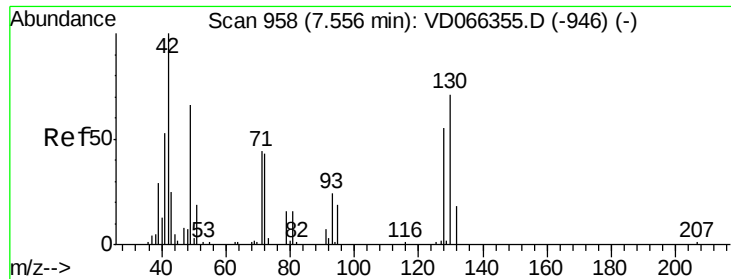
Tot Ion: 84 Resp: 14877  
Ion Ratio Lower Upper  
84 100  
49 102.3 92.5 138.7  
51 29.2 32.5 48.7#  
86 63.4 45.0 67.6



#25  
2-Butanone  
Concen: 16.294 ug/l  
RT: 7.48 min Scan# 945  
Delta R.T. 0.26 min  
Lab File: VD066406.D  
Acq: 25 Aug 2020 17:01

Tgt Ion: 43 Resp: 5289  
Ion Ratio Lower Upper  
43 100  
72 0.0 22.5 33.7#

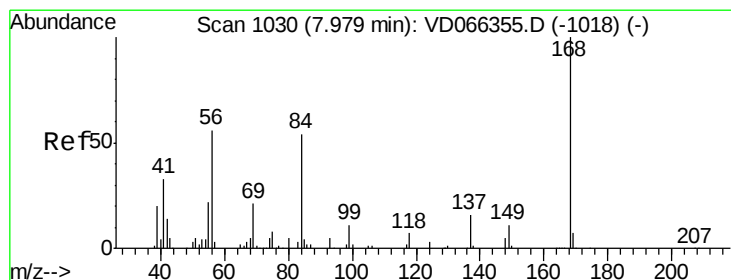
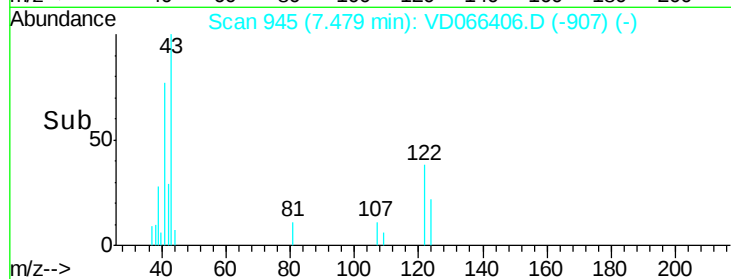
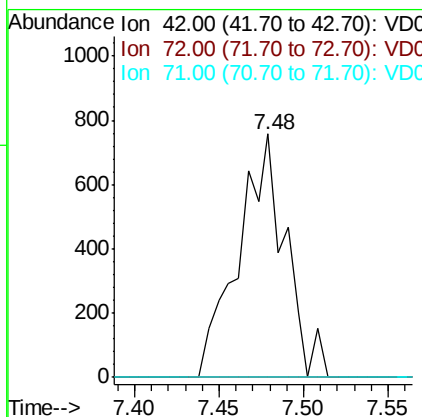
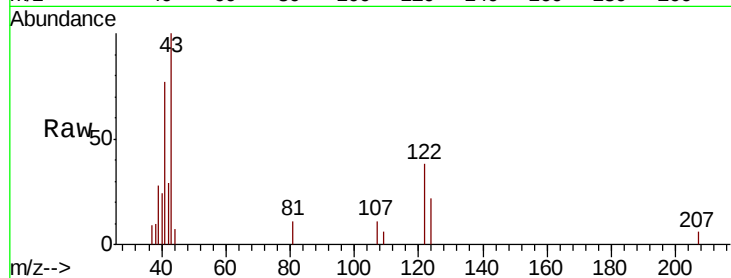




#29  
Tetrahydrofuran  
Concen: 7.935 ug/l  
RT: 7.48 min Scan# 945  
Delta R.T. -0.08 min  
Lab File: VD066406.D  
Acq: 25 Aug 2020 17:01

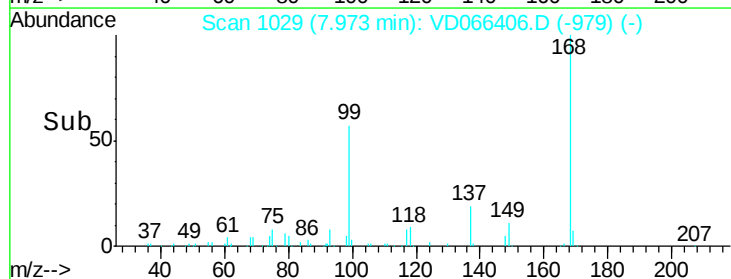
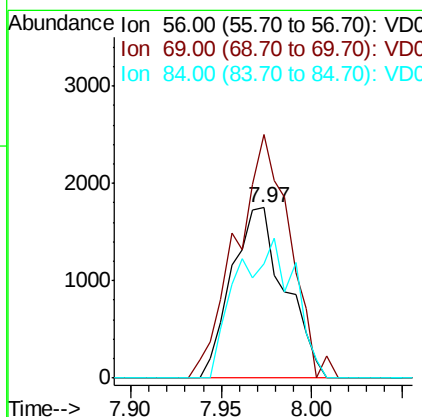
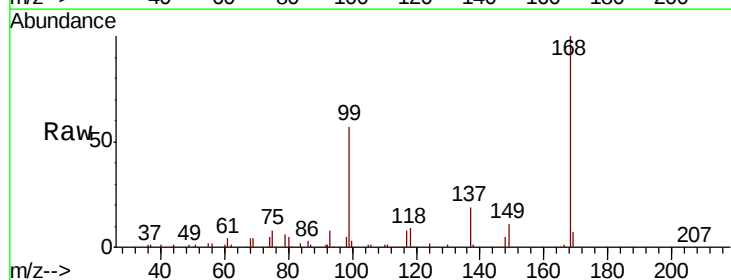
Instrument :  
MSVOA\_D  
ClientSampleId :  
RO-04

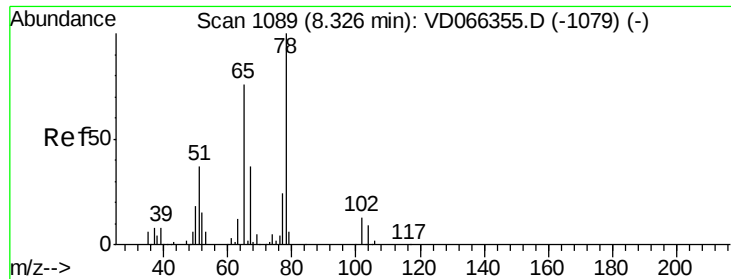
Tot Ion: 42 Resp: 1463  
Ion Ratio Lower Upper  
42 100  
72 0.0 41.0 61.4#  
71 0.0 37.2 55.8#



#31  
Cyclohexane  
Concen: 1.628 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD066406.D  
Acq: 25 Aug 2020 17:01

Tgt Ion: 56 Resp: 3586  
Ion Ratio Lower Upper  
56 100  
69 142.8 29.6 44.4#  
84 67.3 76.6 115.0#

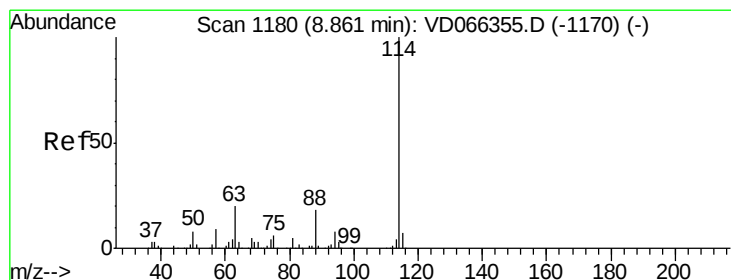
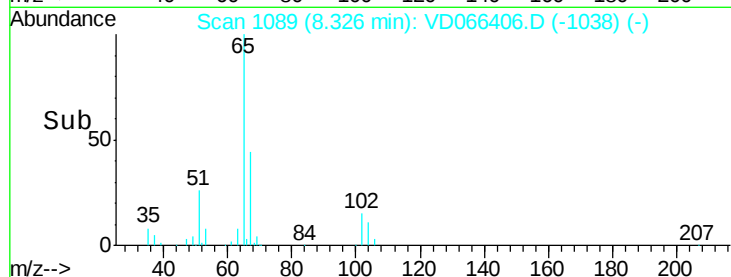
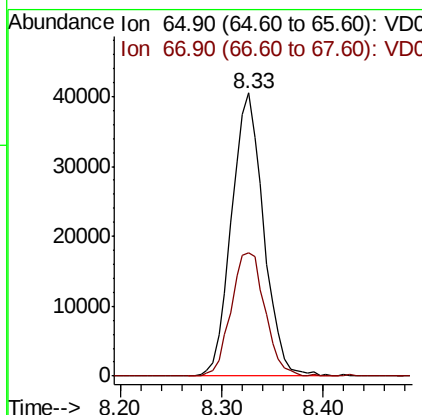
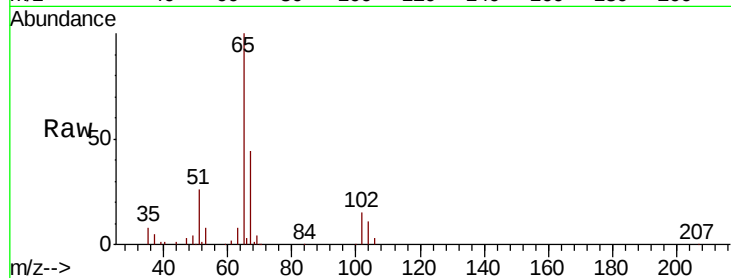




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.000 ug/l  
 RT: 8.33 min Scan# 1089  
 Delta R.T. 0.00 min  
 Lab File: VD066406.D  
 Acq: 25 Aug 2020 17:01

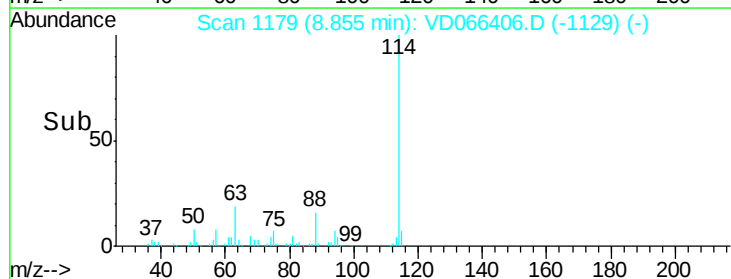
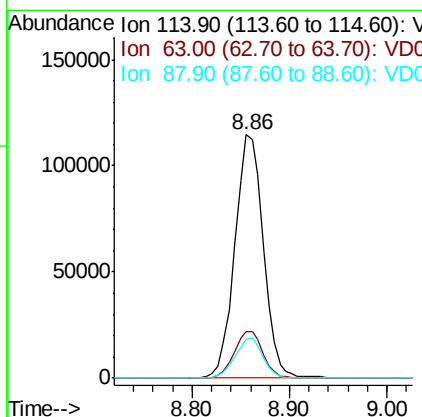
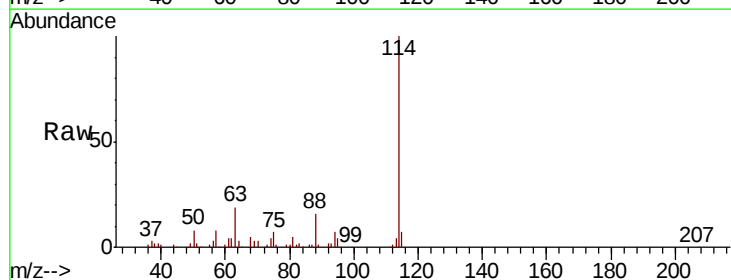
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RO-04

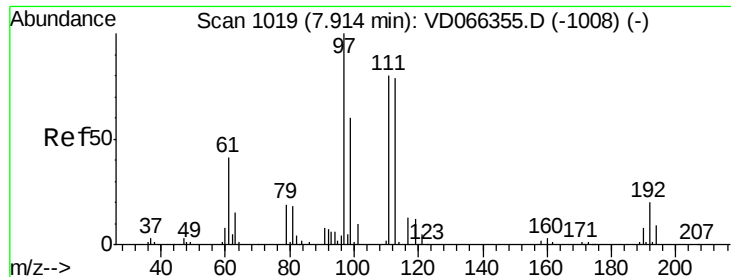
Tot Ion: 65 Resp: 88813  
 Ion Ratio Lower Upper  
 65 100  
 67 46.0 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1179  
 Delta R.T. -0.01 min  
 Lab File: VD066406.D  
 Acq: 25 Aug 2020 17:01

Tgt Ion: 114 Resp: 233659  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 40.8  
 88 15.7 0.0 35.4

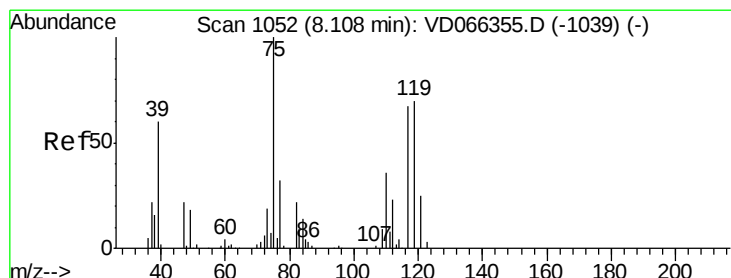
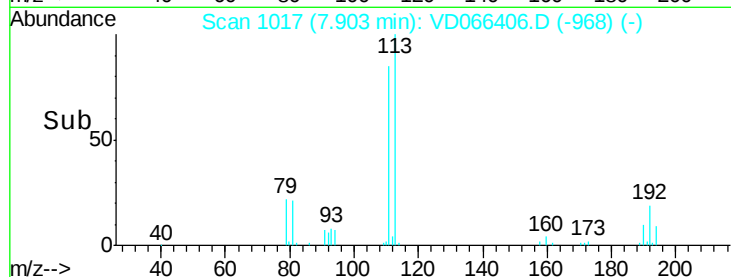
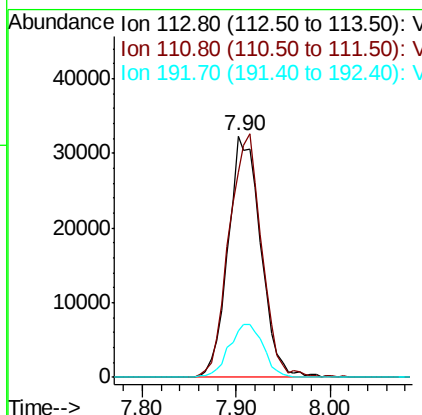
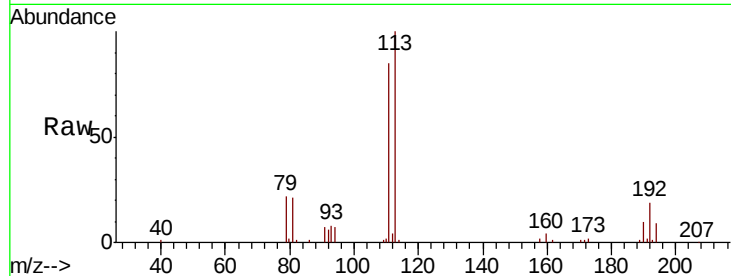




#35  
 Dibromofluoromethane  
 Concen: 53.262 ug/l  
 RT: 7.90 min Scan# 1017  
 Delta R.T. -0.01 min  
 Lab File: VD066406.D  
 Acq: 25 Aug 2020 17:01

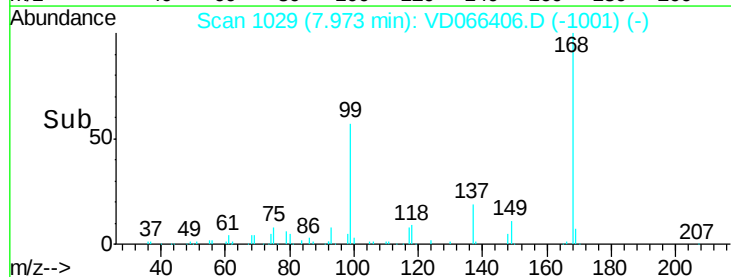
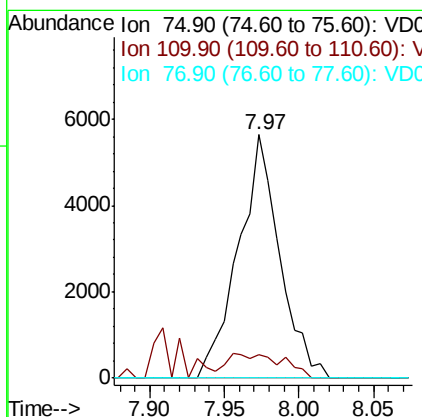
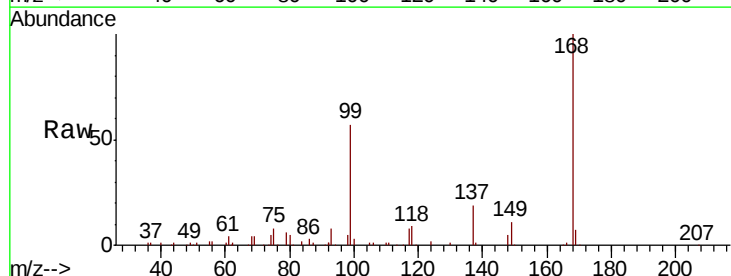
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RO-04

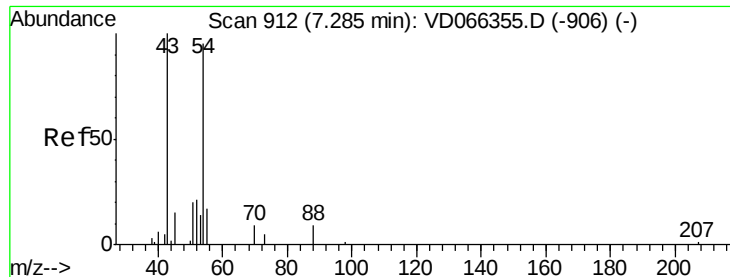
Tot Ion:113 Resp: 77821  
 Ion Ratio Lower Upper  
 113 100  
 111 100.9 80.3 120.5  
 192 22.8 19.0 28.6



#36  
 1,1-Dichloropropene  
 Concen: 5.093 ug/l  
 RT: 7.97 min Scan# 1029  
 Delta R.T. -0.14 min  
 Lab File: VD066406.D  
 Acq: 25 Aug 2020 17:01

Tgt Ion: 75 Resp: 10859  
 Ion Ratio Lower Upper  
 75 100  
 110 13.6 18.7 56.1#  
 77 0.0 25.2 37.8#

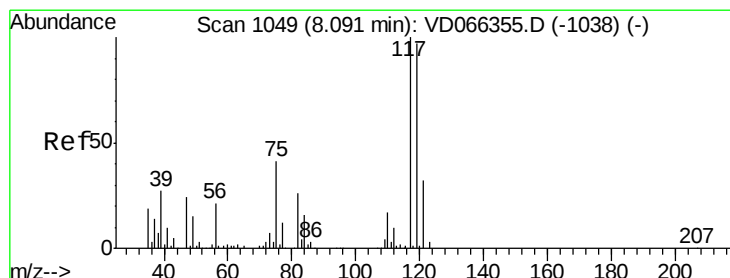
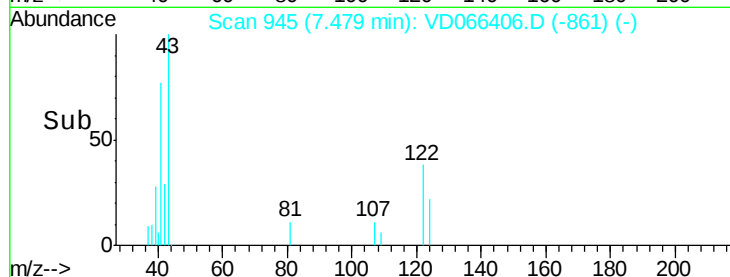
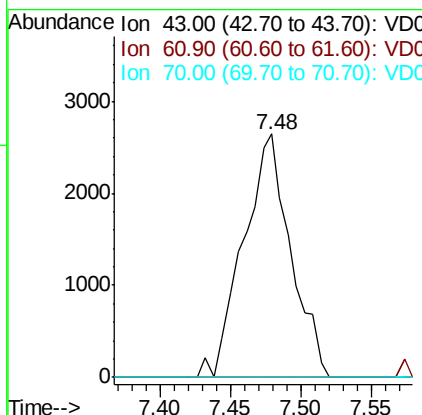
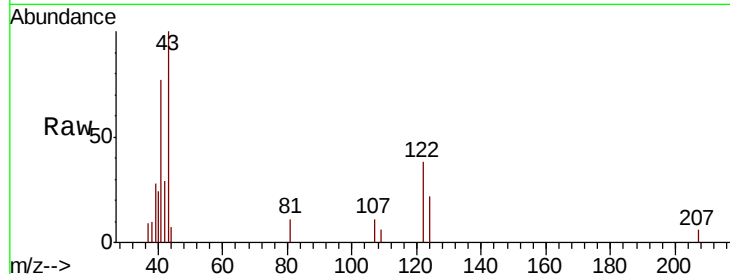




#37  
Ethyl Acetate  
Concen: 8.530 ug/l  
RT: 7.48 min Scan# 945  
Delta R.T. 0.19 min  
Lab File: VD066406.D  
Acq: 25 Aug 2020 17:01

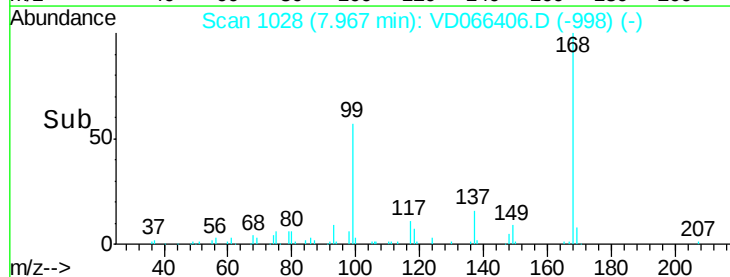
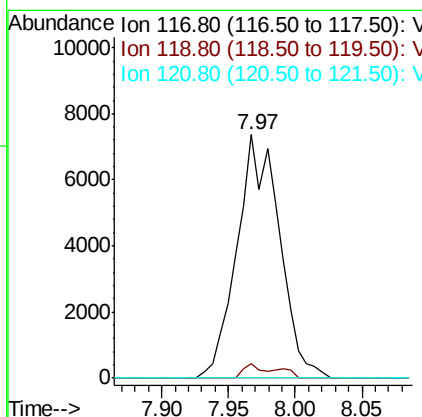
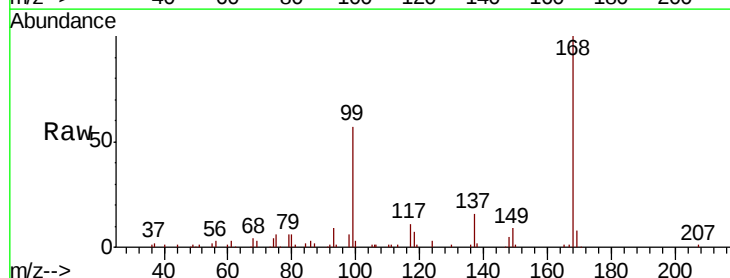
Instrument :  
MSVOA\_D  
ClientSampleId :  
RO-04

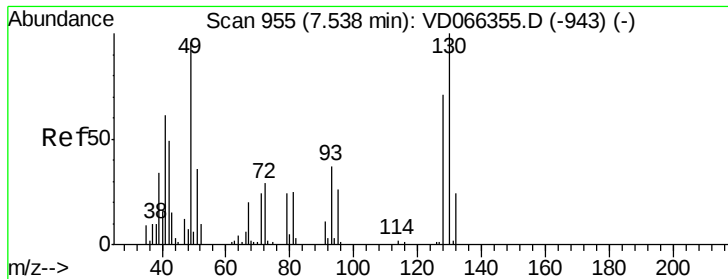
Tot Ion: 43 Resp: 6185  
Ion Ratio Lower Upper  
43 100  
61 0.0 13.3 19.9#  
70 0.0 3.5 5.3#



#38  
Carbon Tetrachloride  
Concen: 5.854 ug/l  
RT: 7.97 min Scan# 1028  
Delta R.T. -0.12 min  
Lab File: VD066406.D  
Acq: 25 Aug 2020 17:01

Tgt Ion: 117 Resp: 16259  
Ion Ratio Lower Upper  
117 100  
119 5.9 77.2 115.8#  
121 0.0 25.8 38.8#

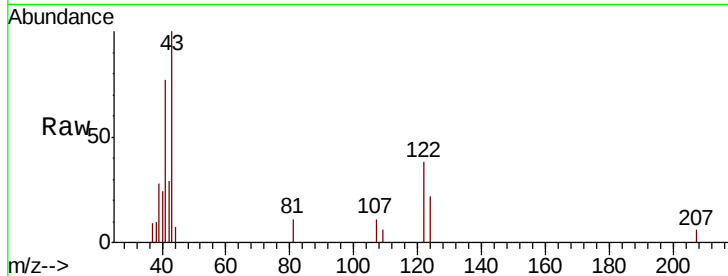




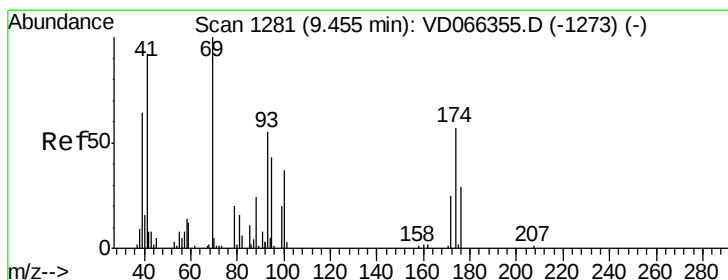
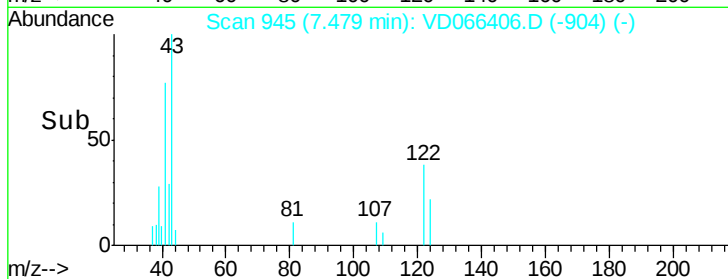
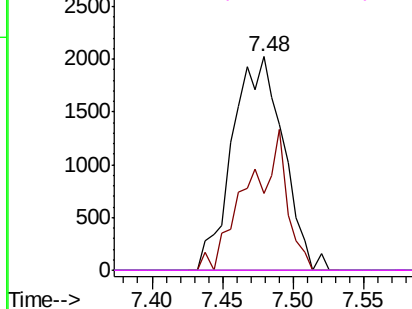
#41  
Methacrylonitrile  
Concen: 11.394 ug/l  
RT: 7.48 min Scan# 945  
Delta R.T. -0.06 min  
Lab File: VD066406.D  
Acq: 25 Aug 2020 17:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
RO-04

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 5095  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 50.7  | 51.8  | 77.8# |
| 67       | 0.0   | 0.0   | 0.0   |
| 52       | 0.0   | 0.0   | 0.0   |

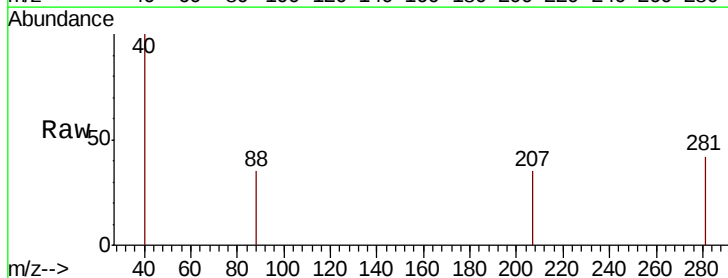


Abundance Ion 41.00 (40.70 to 41.70): VDC  
Ion 39.00 (38.70 to 39.70): VDC  
Ion 67.00 (66.70 to 67.70): VDC  
Ion 52.00 (51.70 to 52.70): VDC

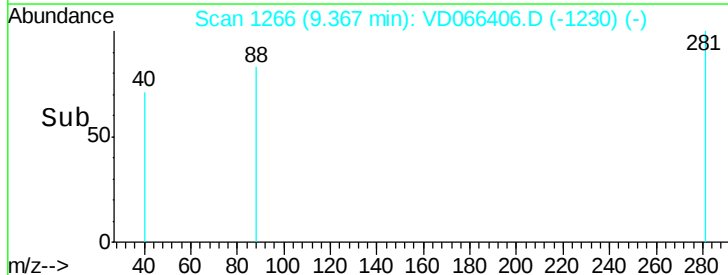
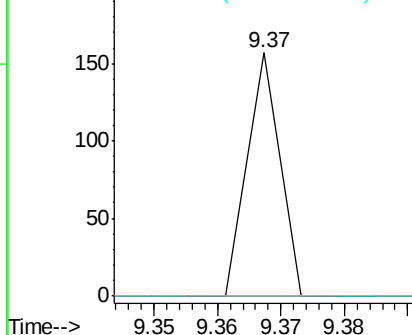


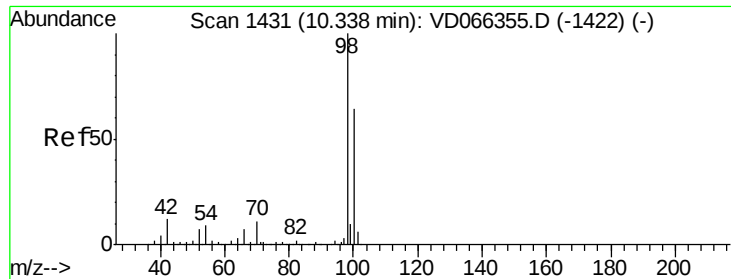
#49  
1,4-Dioxane  
Concen: 5.983 ug/l  
RT: 9.37 min Scan# 1266  
Delta R.T. -0.09 min  
Lab File: VD066406.D  
Acq: 25 Aug 2020 17:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 55    |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 0.0   | 29.4  | 44.0# |
| 58       | 0.0   | 45.4  | 68.2# |



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

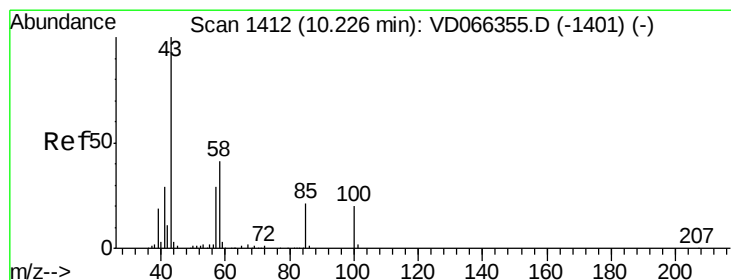
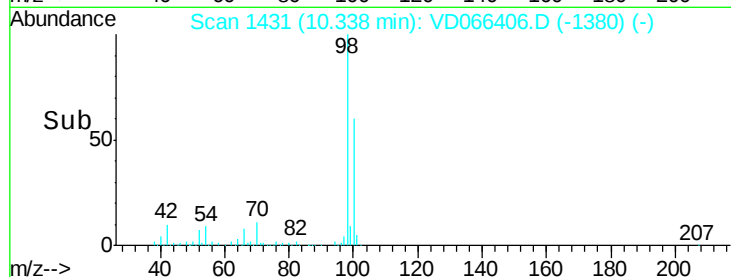
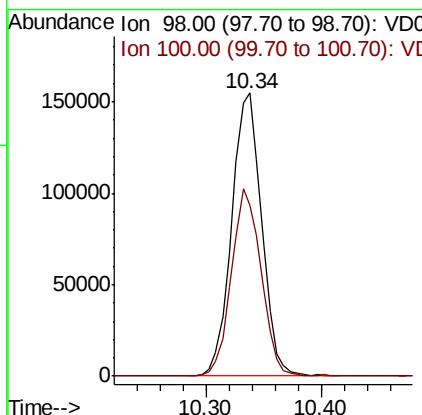
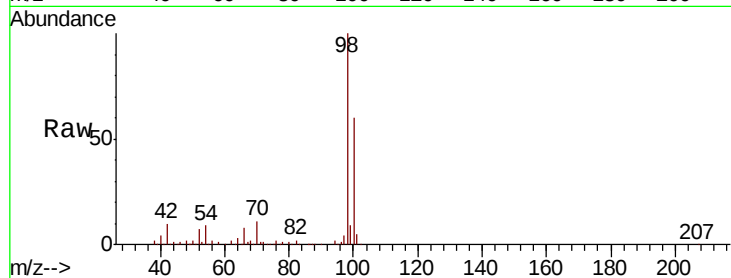




#50  
Toluene-d8  
Concen: 52.045 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD066406.D  
Acq: 25 Aug 2020 17:01

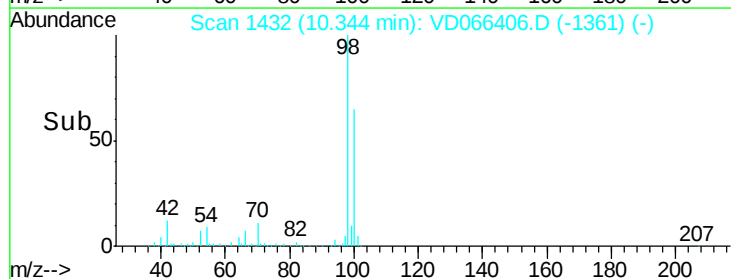
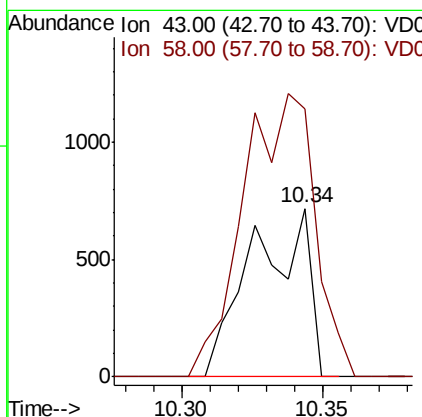
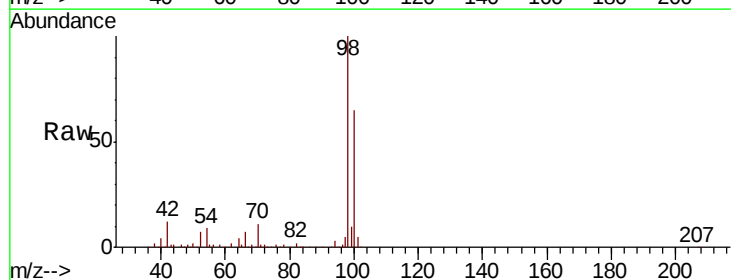
Instrument :  
MSVOA\_D  
ClientSampled :  
RO-04

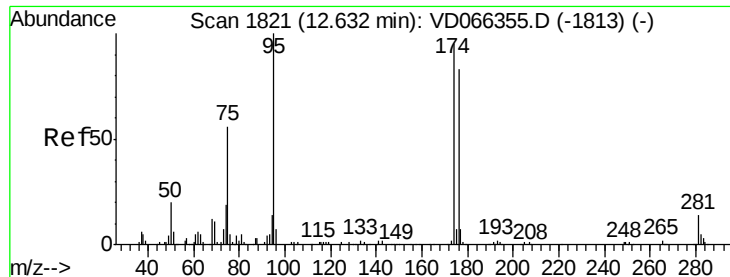
Tot Ion: 98 Resp: 278230  
Ion Ratio Lower Upper  
98 100  
100 65.5 53.0 79.4



#51  
4-Methyl-2-Pentanone  
Concen: 1.427 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.12 min  
Lab File: VD066406.D  
Acq: 25 Aug 2020 17:01

Tgt Ion: 43 Resp: 1005  
Ion Ratio Lower Upper  
43 100  
58 211.4 31.4 47.2#





#62

4-Bromofluorobenzene

Concen: 48.756 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066406.D

Acq: 25 Aug 2020 17:01

Instrument :

MSVOA\_D

ClientSampleId :

RO-04

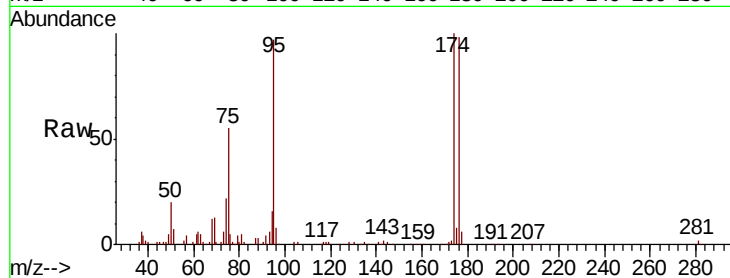
Tot Ion: 95 Resp: 92488

Ion Ratio Lower Upper

95 100

174 98.1 0.0 183.4

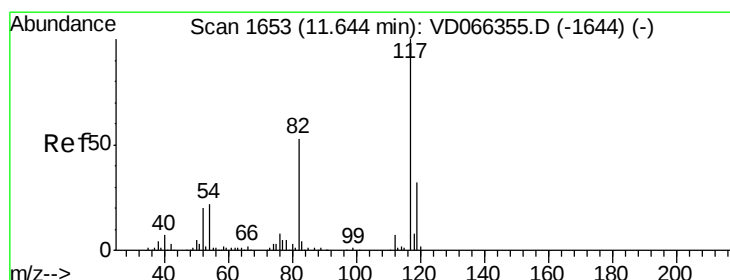
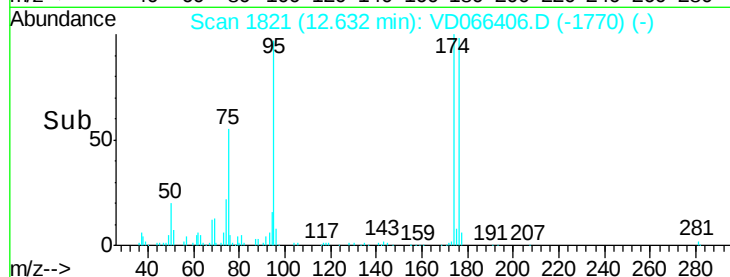
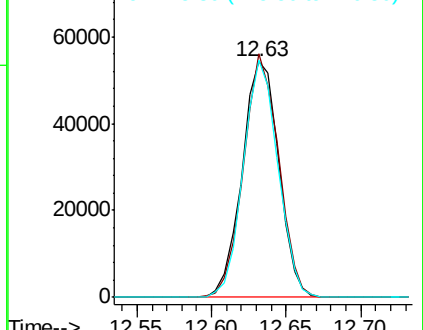
176 94.5 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): V

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: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066406.D

Acq: 25 Aug 2020 17:01

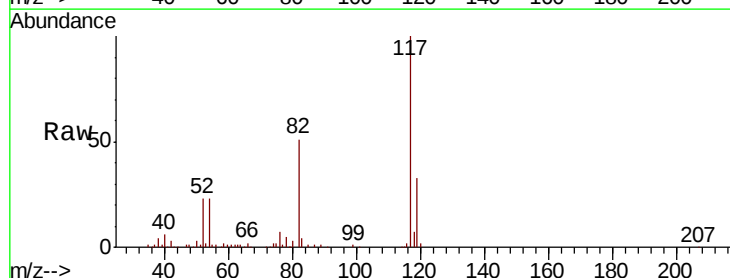
Tgt Ion: 117 Resp: 219165

Ion Ratio Lower Upper

117 100

82 51.1 42.8 64.2

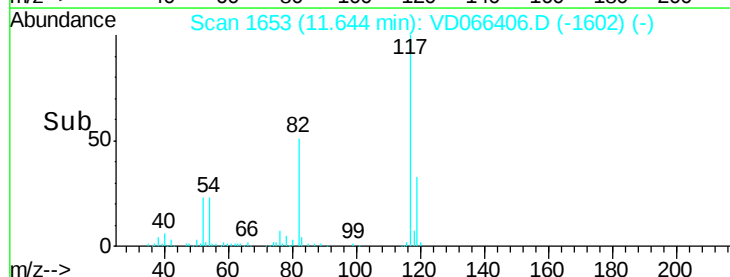
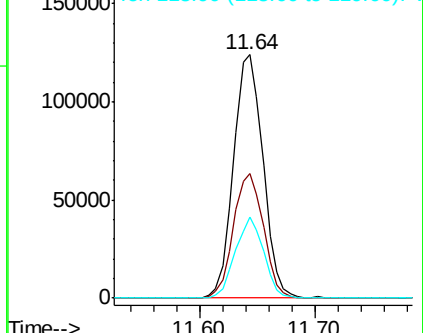
119 33.4 25.8 38.8

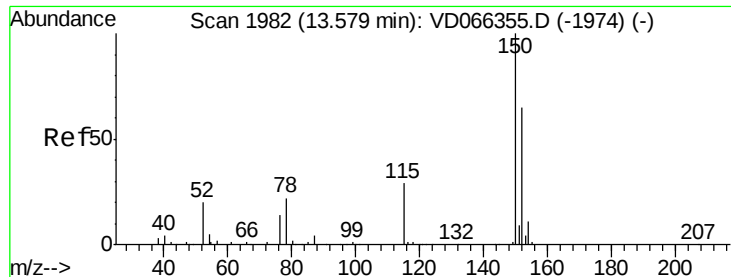


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066406.D

Acq: 25 Aug 2020 17:01

Instrument :

MSVOA\_D

ClientSampleId :

RO-04

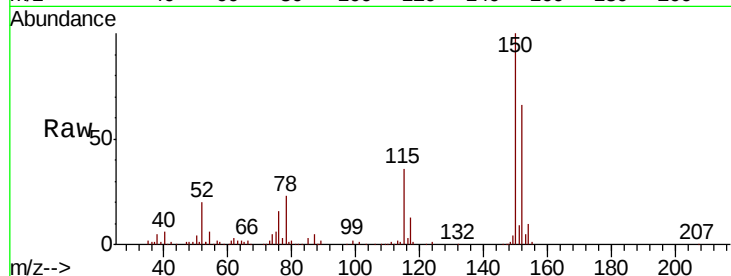
Tot Ion:152 Resp: 111618

Ion Ratio Lower Upper

152 100

115 57.7 28.3 85.0

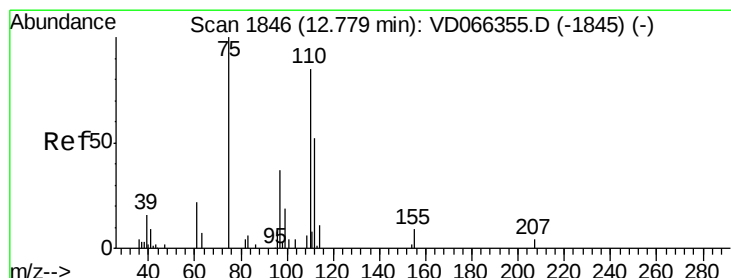
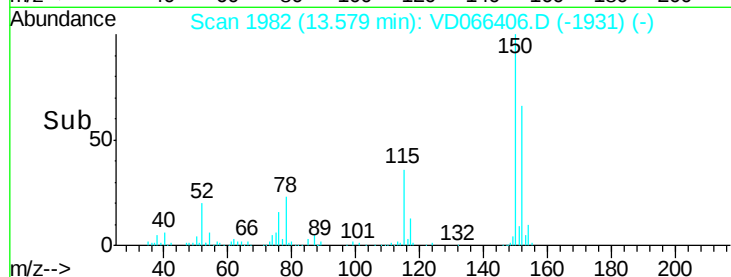
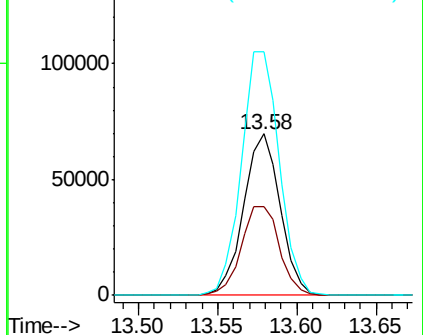
150 156.8 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 68.577 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066406.D

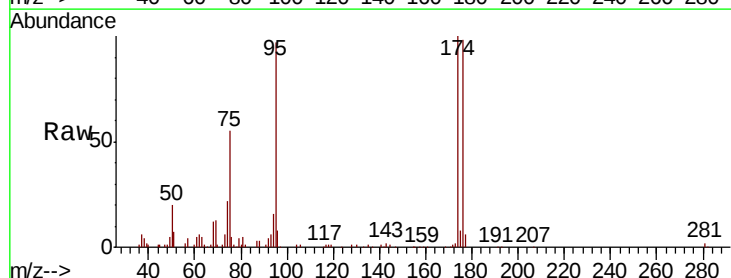
Acq: 25 Aug 2020 17:01

Tgt Ion: 75 Resp: 53849

Ion Ratio Lower Upper

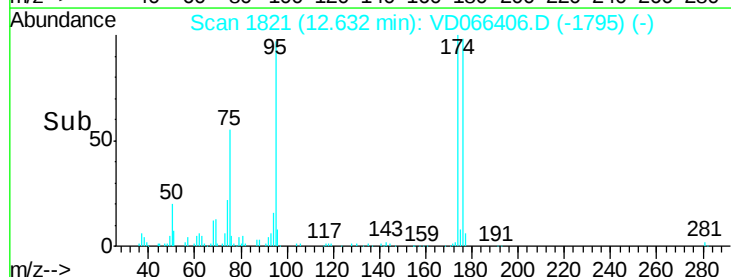
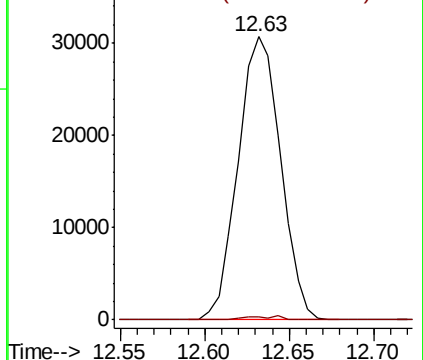
75 100

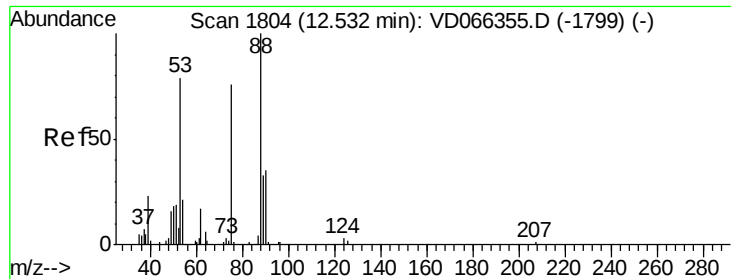
77 1.0 182.9 548.9#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 145.566 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066406.D

Acq: 25 Aug 2020 17:01

Instrument :

MSVOA\_D

ClientSampleId :

RO-04

Tot Ion: 75 Resp: 53849

Ion Ratio Lower Upper

75 100

53 0.0 87.4 131.2#

89 0.0 39.4 59.0#

