

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD072820\  
 Data File : VD066077.D  
 Acq On : 28 Jul 2020 13:49  
 Operator : VA/SY  
 Sample : L3181-06  
 Misc : 8.39G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-01-072720

Quant Time: Jul 29 02:05:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 264498   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 410543   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 440084   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 233653   | 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   | 111336   | 51.73 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.46% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 125256   | 50.30 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.60% |          |
| 50) Toluene-d8              | 10.34 | 98   | 501926   | 54.11 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 108.22% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 206469   | 64.19 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 128.38% |          |

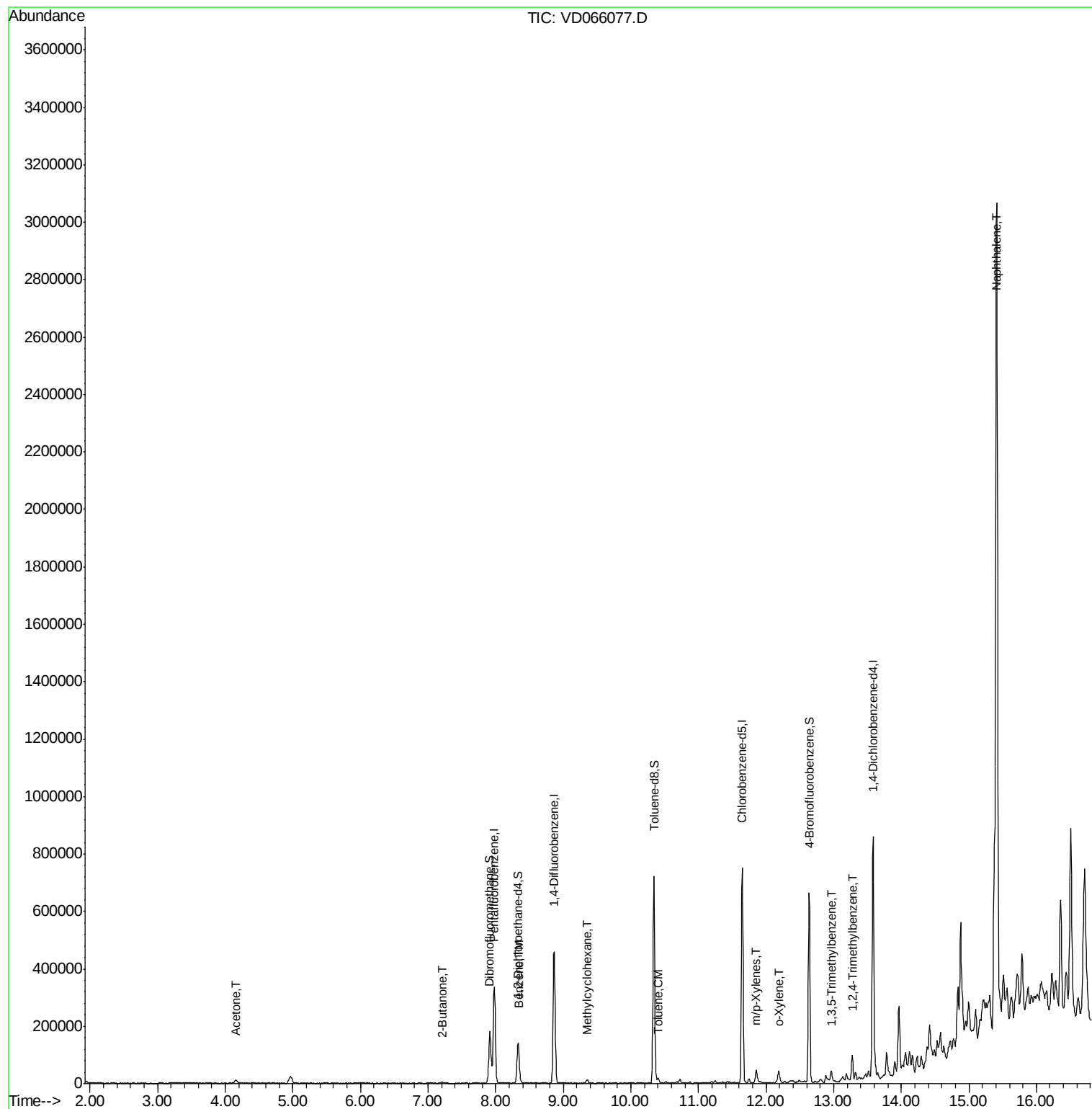
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                | 4.16  | 43   | 21172    | 48.600  | ug/l   | 91     |
| 25) 2-Butanone             | 7.21  | 43   | 5147     | 8.904   | ug/l # | 88     |
| 39) Methylcyclohexane      | 9.36  | 83   | 4983     | 1.174   | ug/l   | 93     |
| 40) Benzene                | 8.35  | 78   | 13917    | 1.420   | ug/l   | 96     |
| 52) Toluene                | 10.40 | 92   | 6645     | 1.039   | ug/l   | 88     |
| 68) m/p-Xylenes            | 11.86 | 106  | 14142    | 2.653   | ug/l   | 98     |
| 69) o-Xylene               | 12.18 | 106  | 9204     | 1.899   | ug/l   | 85     |
| 80) 1,3,5-Trimethylbenzene | 12.97 | 105  | 14389    | 1.239   | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.28 | 105  | 49296    | 4.302   | ug/l   | 94     |
| 95) Naphthalene            | 15.41 | 128  | 2694316  | 340.891 | ug/l   | 99     |

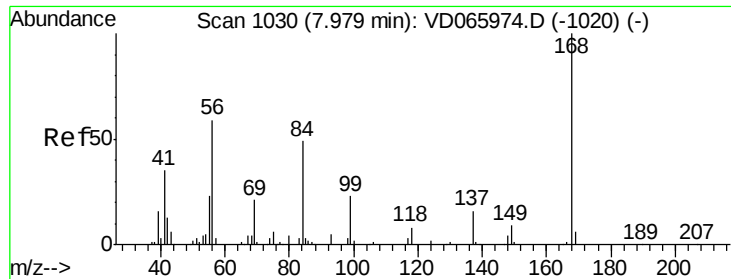
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD072820\  
Data File : VD066077.D  
Acq On : 28 Jul 2020 13:49  
Operator : VA/SY  
Sample : L3181-06  
Misc : 8.39G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-072720

Quant Time: Jul 29 02:05:06 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 21 12:34:13 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: VD066077.D

Acq: 28 Jul 2020 13:49

Instrument :

MSVOA\_D

ClientSampleId :

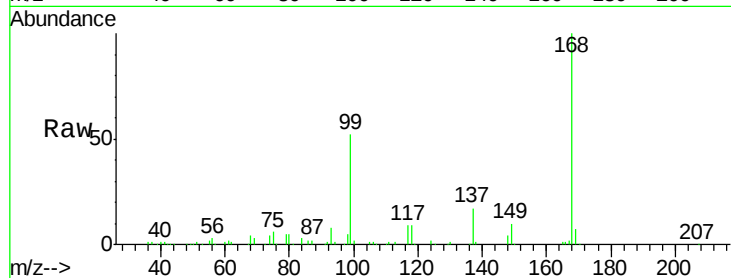
CL-01-072720

Tgt Ion:168 Resp: 264498

Ion Ratio Lower Upper

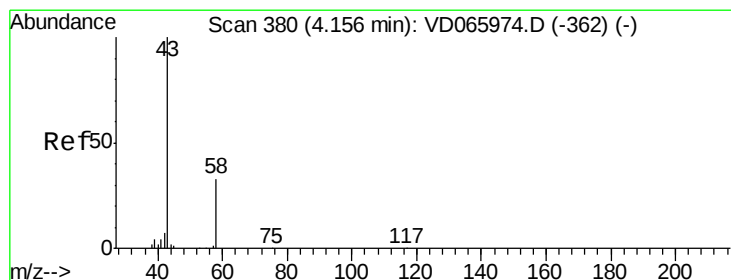
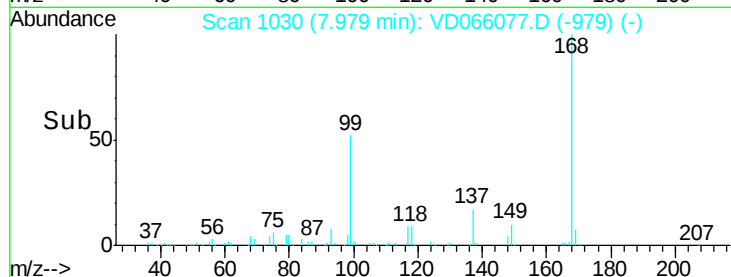
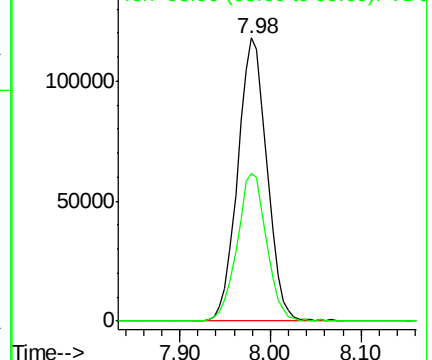
168 100

99 52.2 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 48.600 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD066077.D

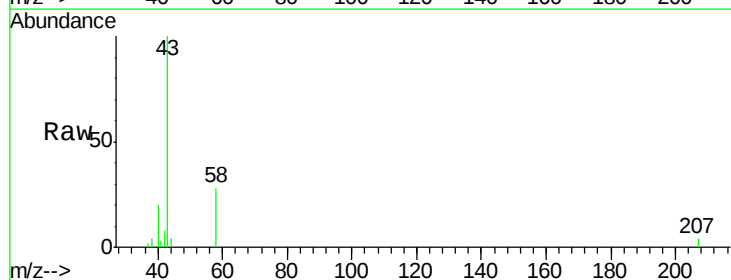
Acq: 28 Jul 2020 13:49

Tgt Ion: 43 Resp: 21172

Ion Ratio Lower Upper

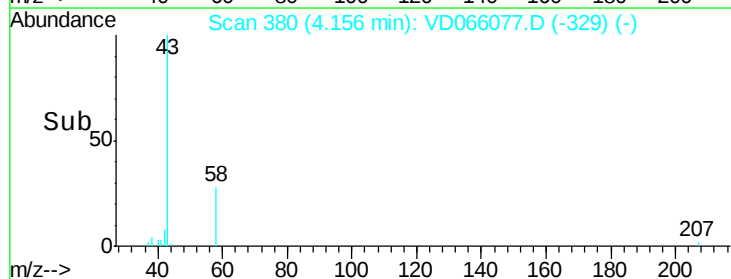
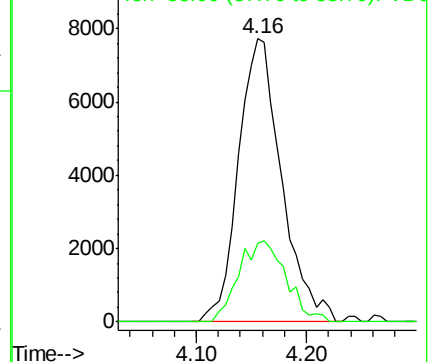
43 100

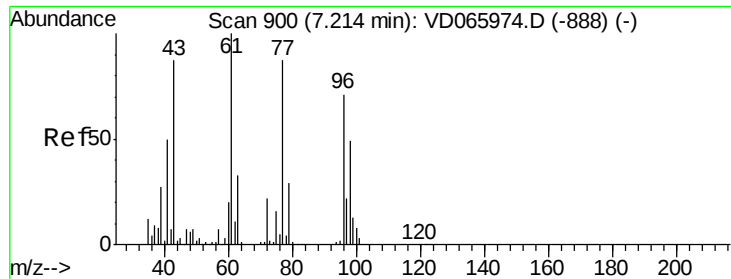
58 27.7 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#25

2-Butanone

Concen: 8.904 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Instrument :

MSVOA\_D

ClientSampleId :

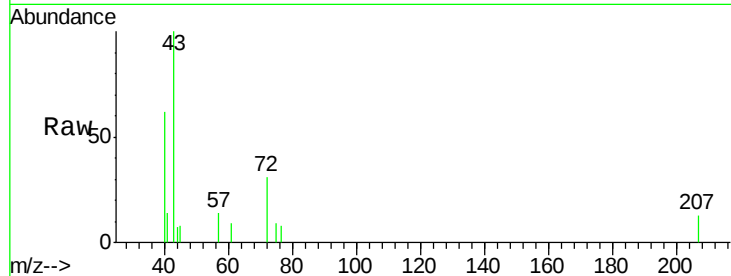
CL-01-072720

Tgt Ion: 43 Resp: 5147

Ion Ratio Lower Upper

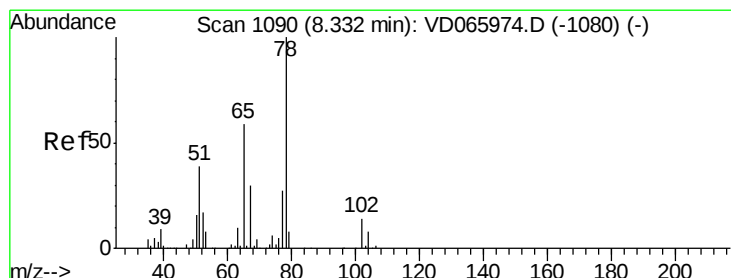
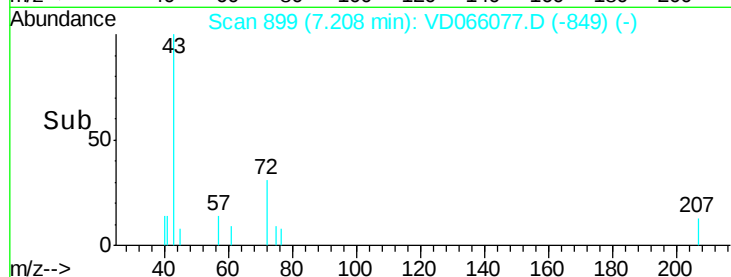
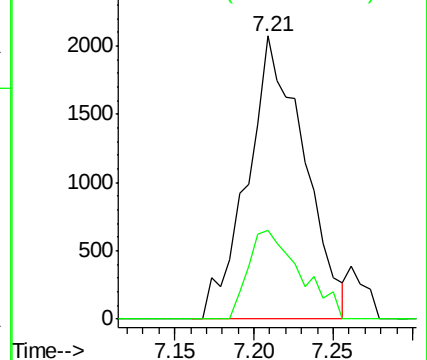
43 100

72 31.3 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 51.731 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD066077.D

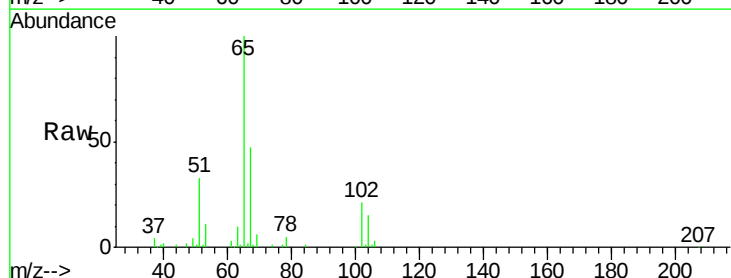
Acq: 28 Jul 2020 13:49

Tgt Ion: 65 Resp: 111336

Ion Ratio Lower Upper

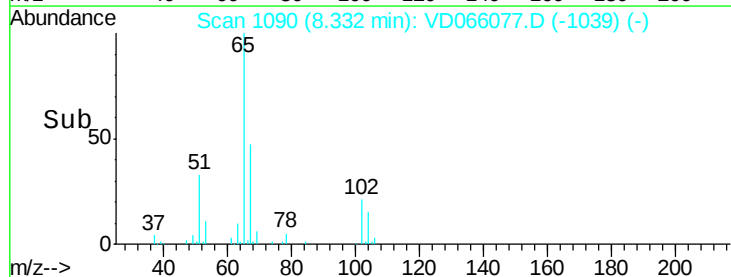
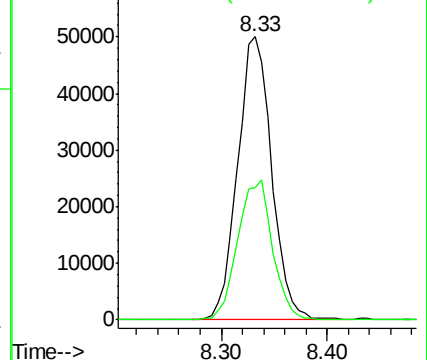
65 100

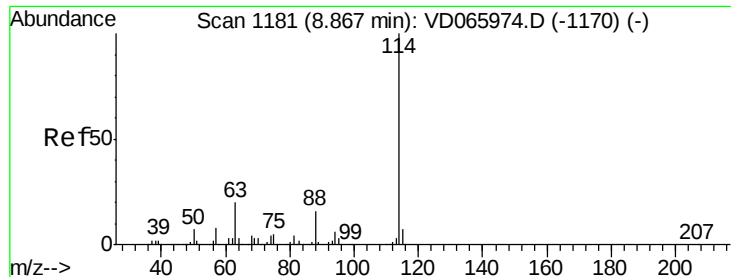
67 50.5 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

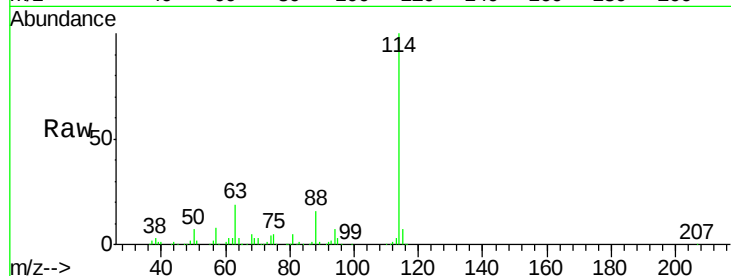




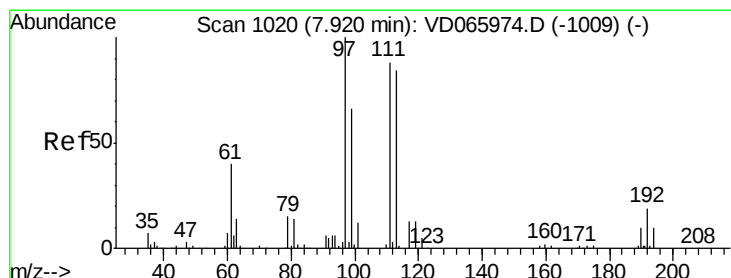
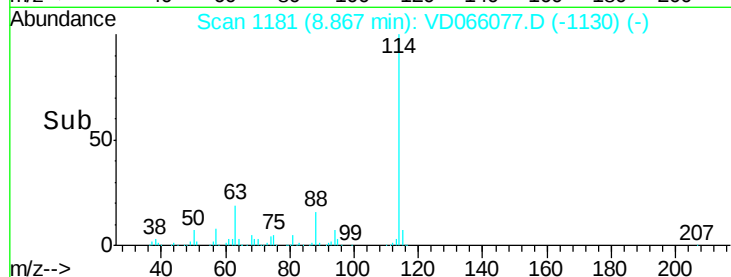
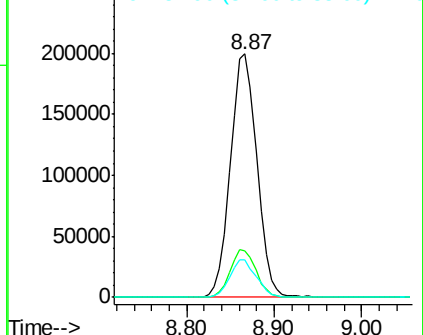
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.87 min Scan# 1181  
Delta R.T. -0.00 min  
Lab File: VD066077.D  
Acq: 28 Jul 2020 13:49

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-072720

Tgt Ion:114 Resp: 410543  
Ion Ratio Lower Upper  
114 100  
63 19.1 0.0 39.6  
88 15.6 0.0 31.2

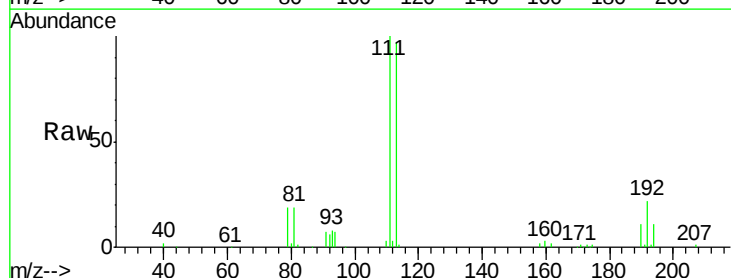


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): V  
Ion 87.90 (87.60 to 88.60): V

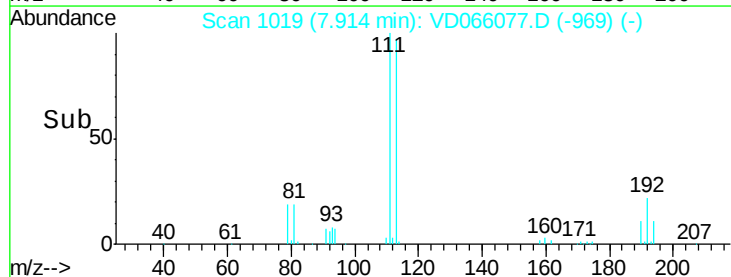
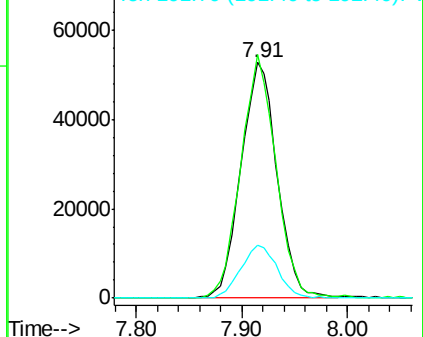


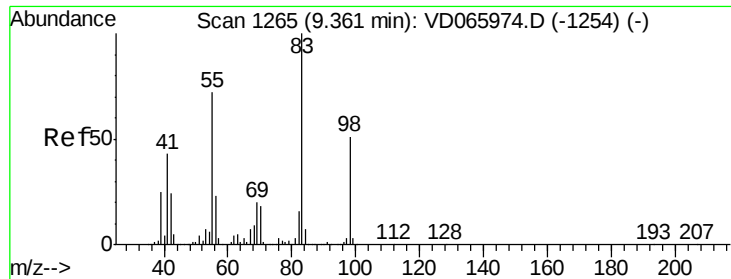
#35  
Dibromofluoromethane  
Concen: 50.302 ug/l  
RT: 7.91 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: VD066077.D  
Acq: 28 Jul 2020 13:49

Tgt Ion:113 Resp: 125256  
Ion Ratio Lower Upper  
113 100  
111 100.7 83.2 124.8  
192 22.8 18.7 28.1



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

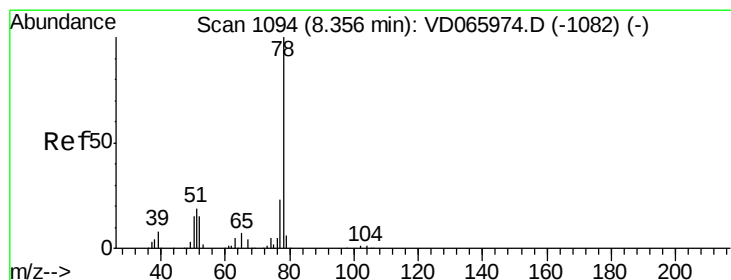
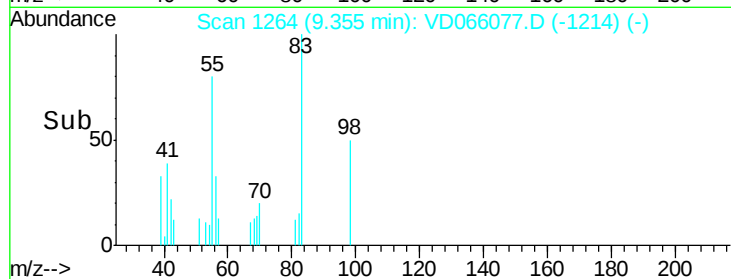
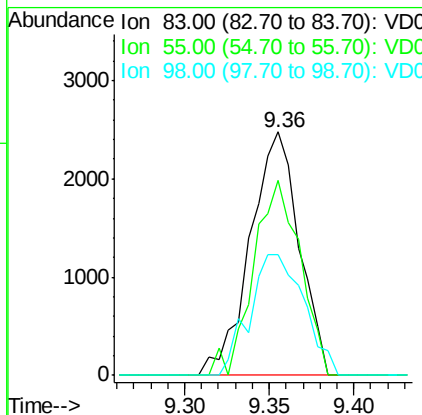
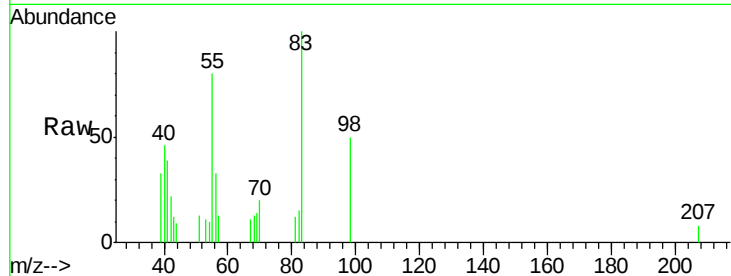




#39  
Methylcyclohexane  
Concen: 1.174 ug/l  
RT: 9.36 min Scan# 1264  
Delta R.T. -0.01 min  
Lab File: VD066077.D  
Acq: 28 Jul 2020 13:49

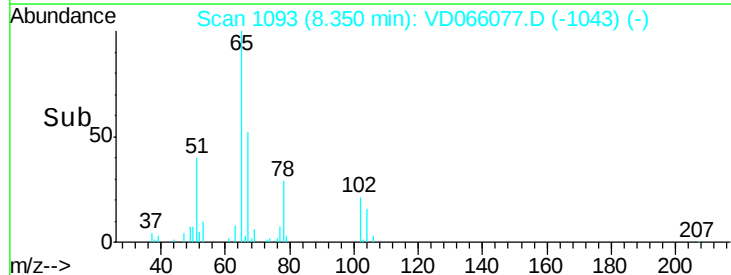
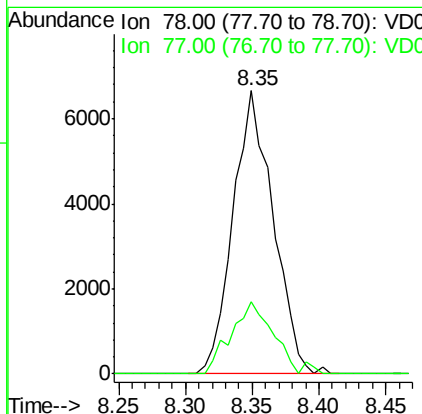
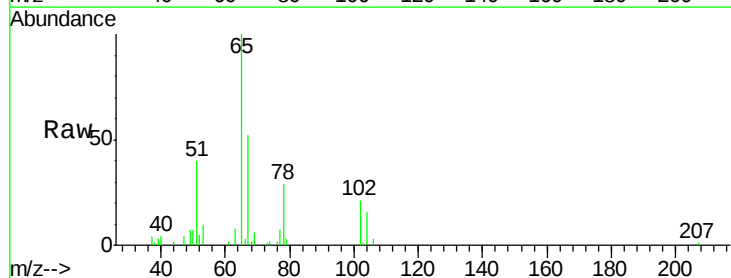
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-072720

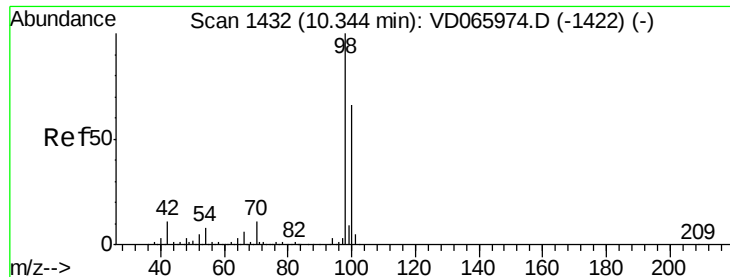
Tgt Ion: 83 Resp: 4983  
Ion Ratio Lower Upper  
83 100  
55 79.9 57.3 85.9  
98 49.5 41.0 61.6



#40  
Benzene  
Concen: 1.420 ug/l  
RT: 8.35 min Scan# 1093  
Delta R.T. -0.01 min  
Lab File: VD066077.D  
Acq: 28 Jul 2020 13:49

Tgt Ion: 78 Resp: 13917  
Ion Ratio Lower Upper  
78 100  
77 25.3 18.6 27.8





#50

Toluene-d8

Concen: 54.109 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Instrument :

MSVOA\_D

ClientSampleId :

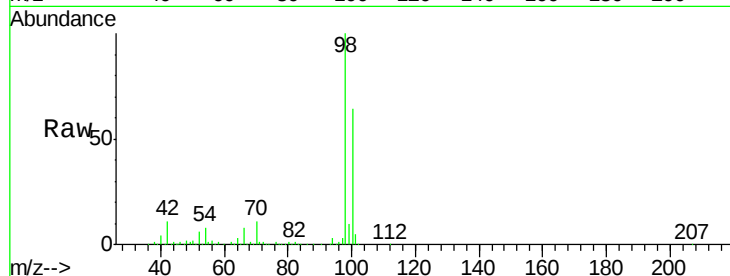
CL-01-072720

Tgt Ion: 98 Resp: 501926

Ion Ratio Lower Upper

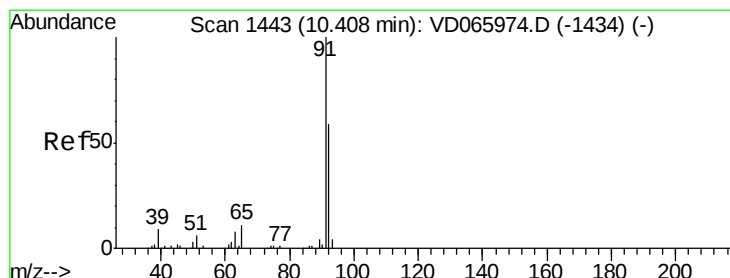
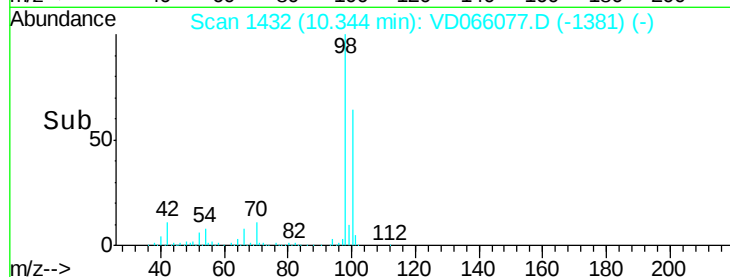
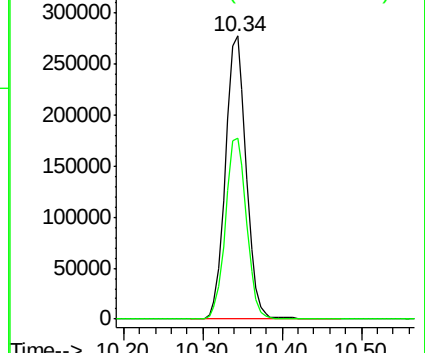
98 100

100 64.7 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VD0

Ion 100.00 (99.70 to 100.70): VD



#52

Toluene

Concen: 1.039 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.01 min

Lab File: VD066077.D

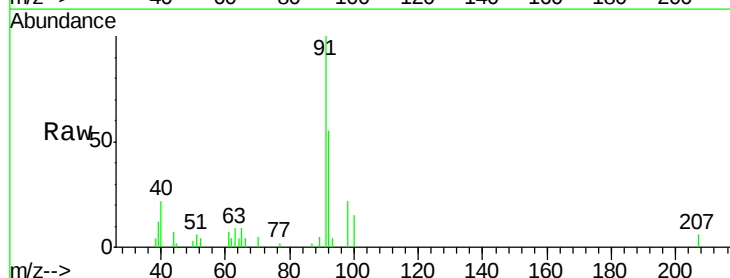
Acq: 28 Jul 2020 13:49

Tgt Ion: 92 Resp: 6645

Ion Ratio Lower Upper

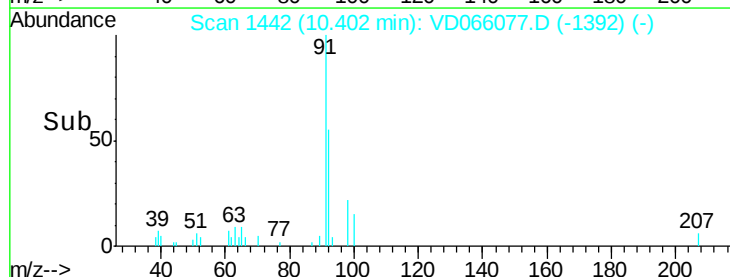
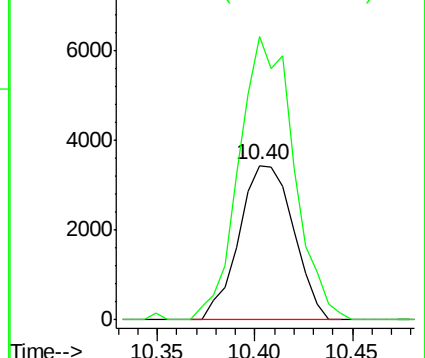
92 100

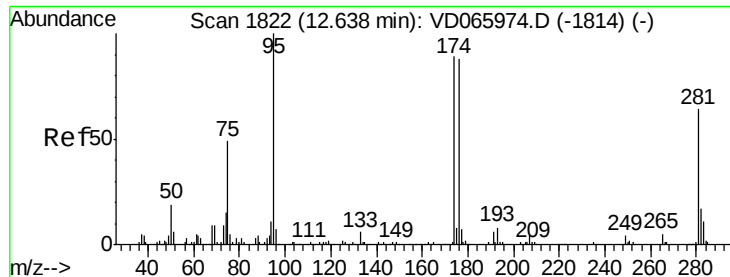
91 184.4 134.5 201.7



Abundance Ion 92.00 (91.70 to 92.70): VD0

Ion 91.00 (90.70 to 91.70): VD0

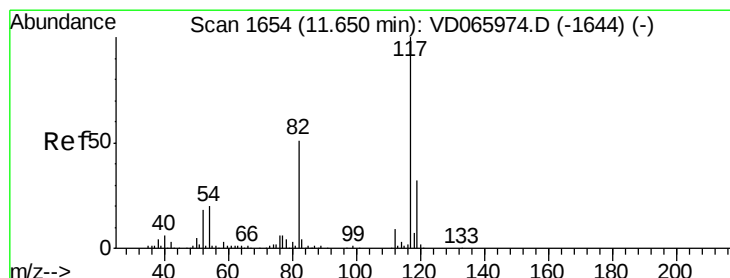
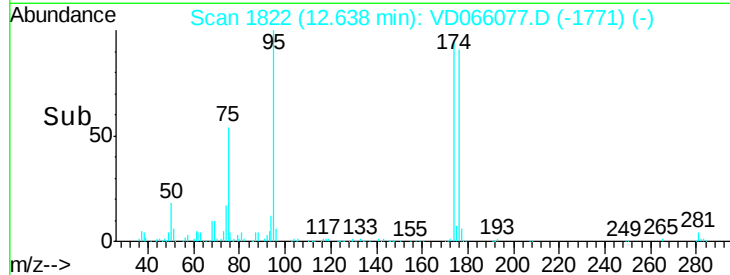
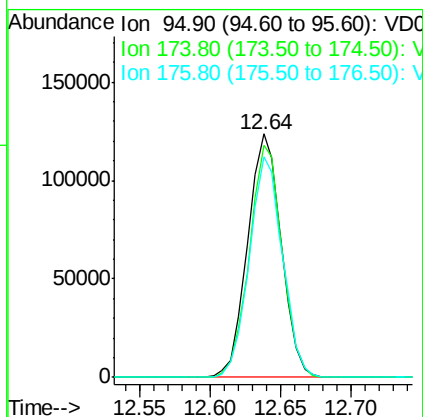
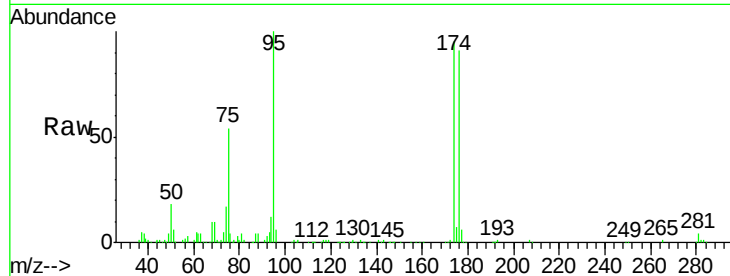




#62  
4-Bromofluorobenzene  
Concen: 64.193 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD066077.D  
Acq: 28 Jul 2020 13:49

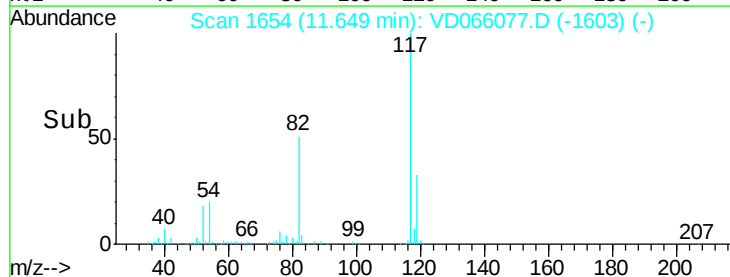
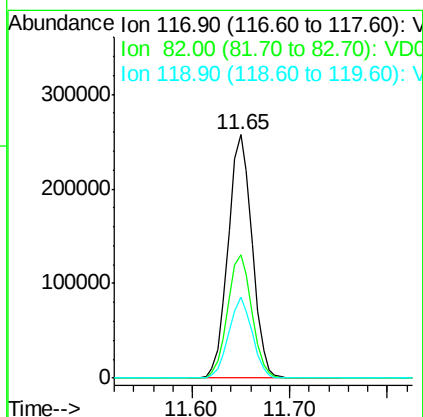
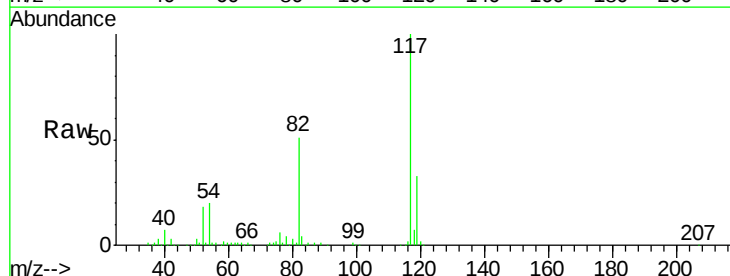
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-072720

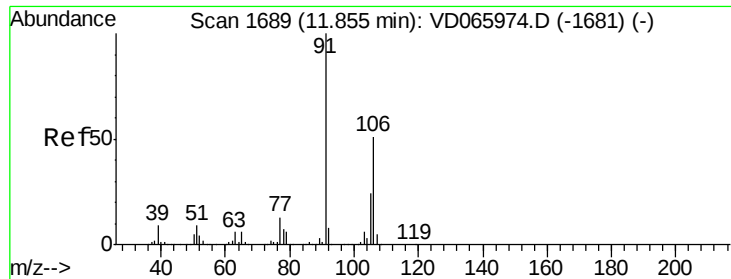
Tgt Ion: 95 Resp: 206469  
Ion Ratio Lower Upper  
95 100  
174 93.5 0.0 178.8  
176 89.7 0.0 172.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD066077.D  
Acq: 28 Jul 2020 13:49

Tgt Ion: 117 Resp: 440084  
Ion Ratio Lower Upper  
117 100  
82 50.8 41.1 61.7  
119 33.1 25.9 38.9

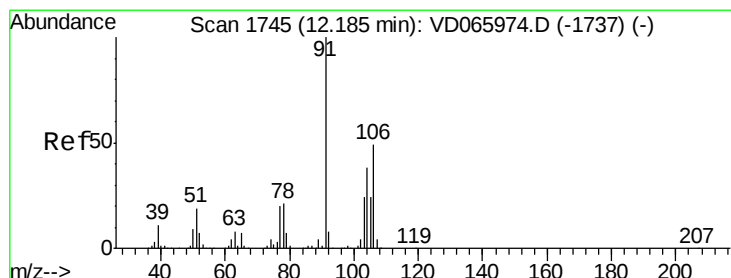
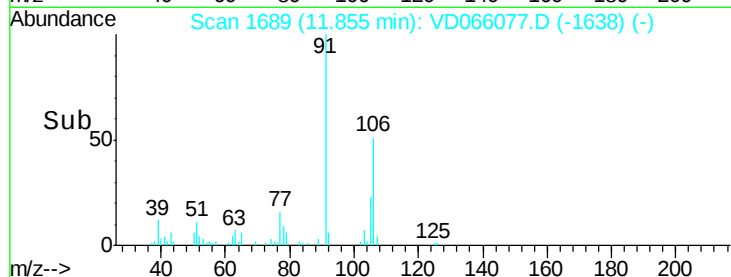
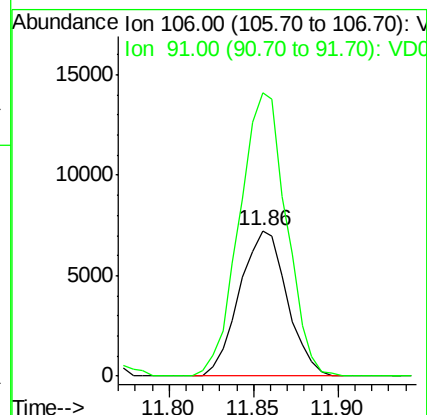
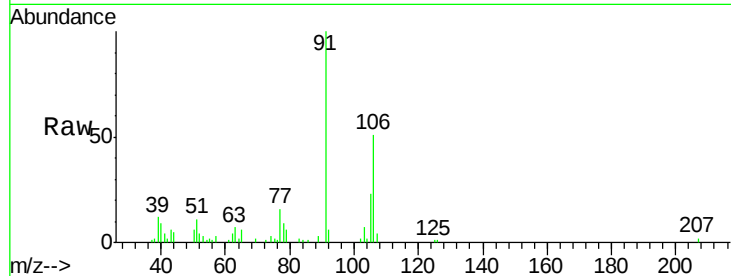




#68  
m/p-Xylenes  
Concen: 2.653 ug/l  
RT: 11.86 min Scan# 1689  
Delta R.T. -0.00 min  
Lab File: VD066077.D  
Acq: 28 Jul 2020 13:49

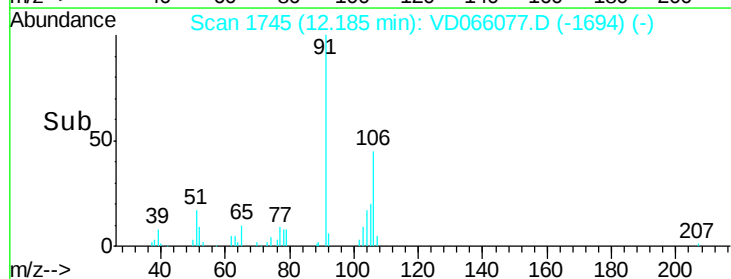
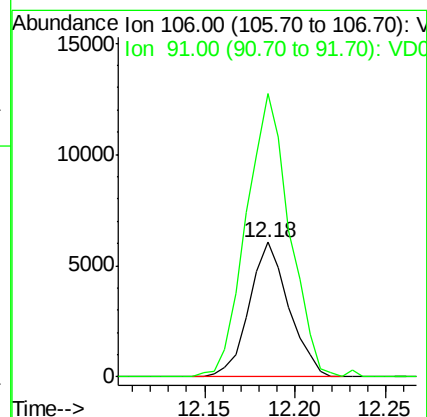
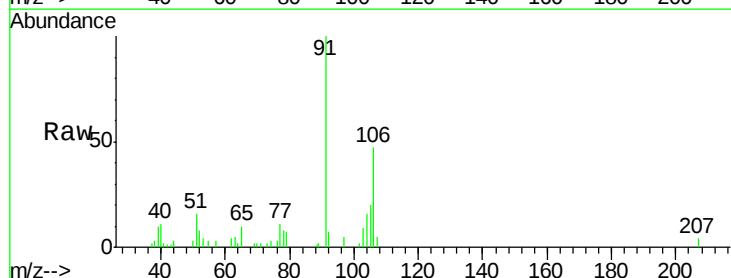
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-072720

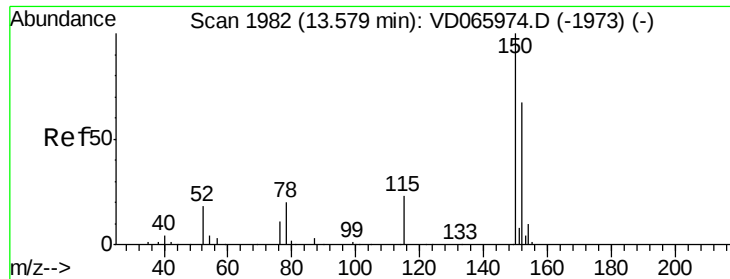
Tgt Ion:106 Resp: 14142  
Ion Ratio Lower Upper  
106 100  
91 192.9 157.0 235.6



#69  
o-Xylene  
Concen: 1.899 ug/l  
RT: 12.18 min Scan# 1745  
Delta R.T. -0.00 min  
Lab File: VD066077.D  
Acq: 28 Jul 2020 13:49

Tgt Ion:106 Resp: 9204  
Ion Ratio Lower Upper  
106 100  
91 228.9 103.1 309.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Instrument :

MSVOA\_D

ClientSampleId :

CL-01-072720

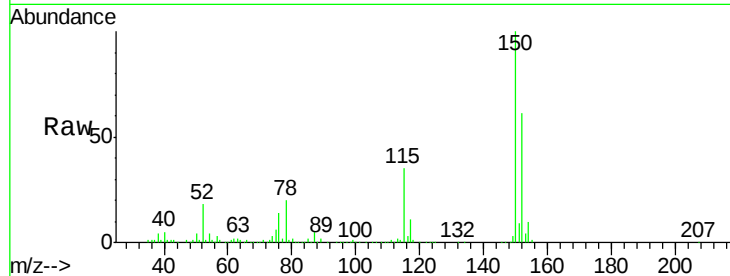
Tgt Ion:152 Resp: 233653

Ion Ratio Lower Upper

152 100

115 56.5 27.9 83.7

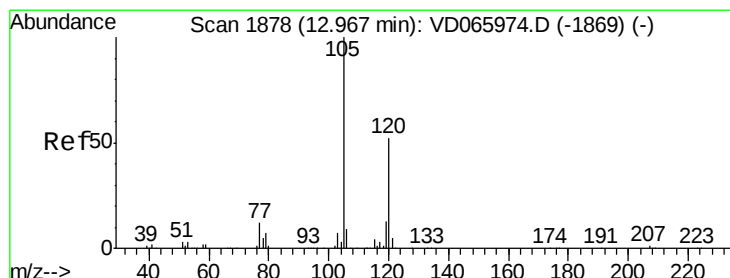
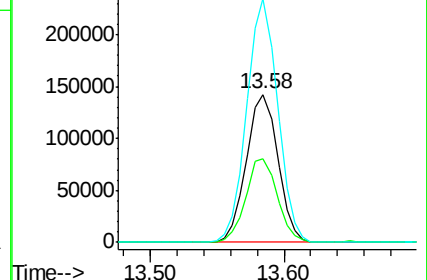
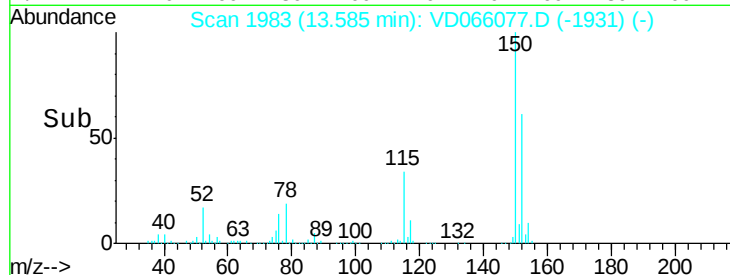
150 160.2 0.0 348.2



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



#80

1,3,5-Trimethylbenzene

Concen: 1.239 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD066077.D

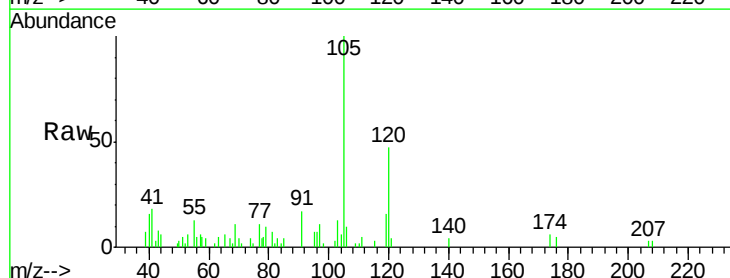
Acq: 28 Jul 2020 13:49

Tgt Ion:105 Resp: 14389

Ion Ratio Lower Upper

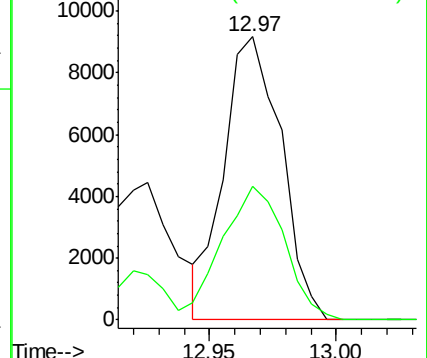
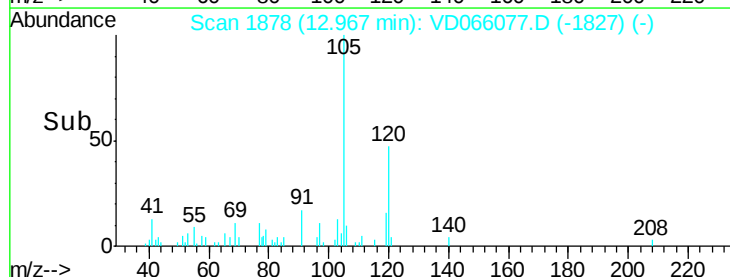
105 100

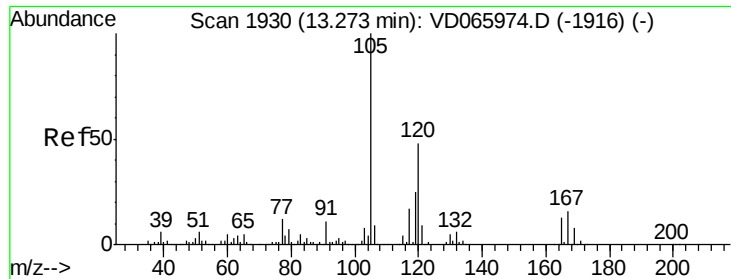
120 51.9 25.6 76.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

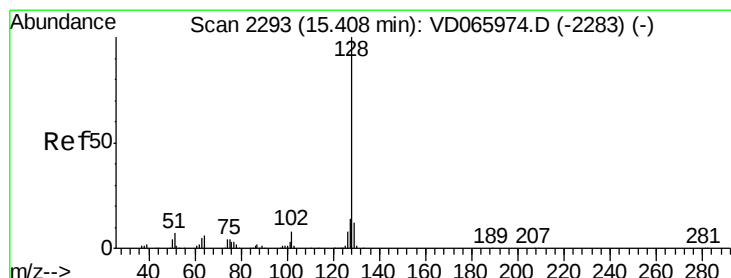
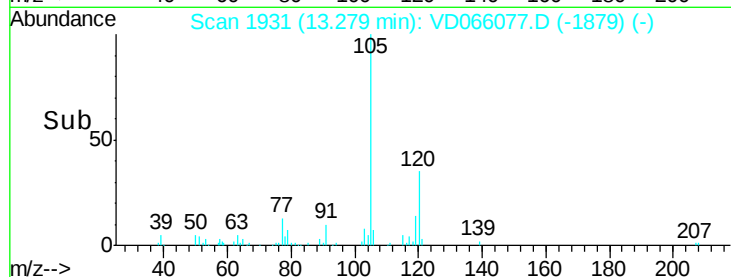
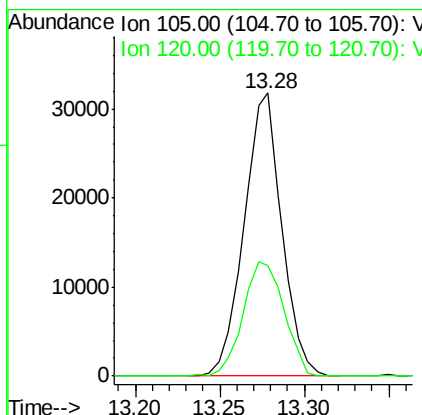
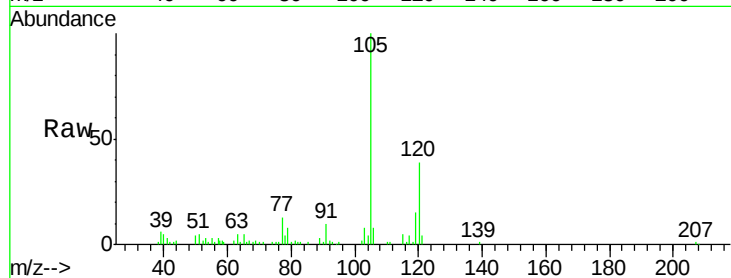




#84  
1,2,4-Trimethylbenzene  
Concen: 4.302 ug/l  
RT: 13.28 min Scan# 1931  
Delta R.T. 0.01 min  
Lab File: VD066077.D  
Acq: 28 Jul 2020 13:49

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-072720

Tgt Ion:105 Resp: 49296  
Ion Ratio Lower Upper  
105 100  
120 44.1 23.9 71.8



#95  
Naphthalene  
Concen: 340.891 ug/l  
RT: 15.41 min Scan# 2294  
Delta R.T. 0.01 min  
Lab File: VD066077.D  
Acq: 28 Jul 2020 13:49

Tgt Ion:128 Resp: 2694316  
Ion Ratio Lower Upper  
128 100  
127 13.7 10.8 16.2  
129 11.3 8.9 13.3

