

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072320\  
 Data File : VD066030.D  
 Acq On : 23 Jul 2020 17:52  
 Operator : VA/SY  
 Sample : L3378-13  
 Misc : 8.44G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DRUM-COMP

Quant Time: Jul 24 03:08:07 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  | 319896   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 505810   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 527822   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 279559   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 131149   | 50.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.76% |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 150038   | 48.91 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.82%  |      |
| 50) Toluene-d8              | 10.34  | 98  | 614487   | 53.77 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.54% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 242471   | 61.19 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 122.38% |      |

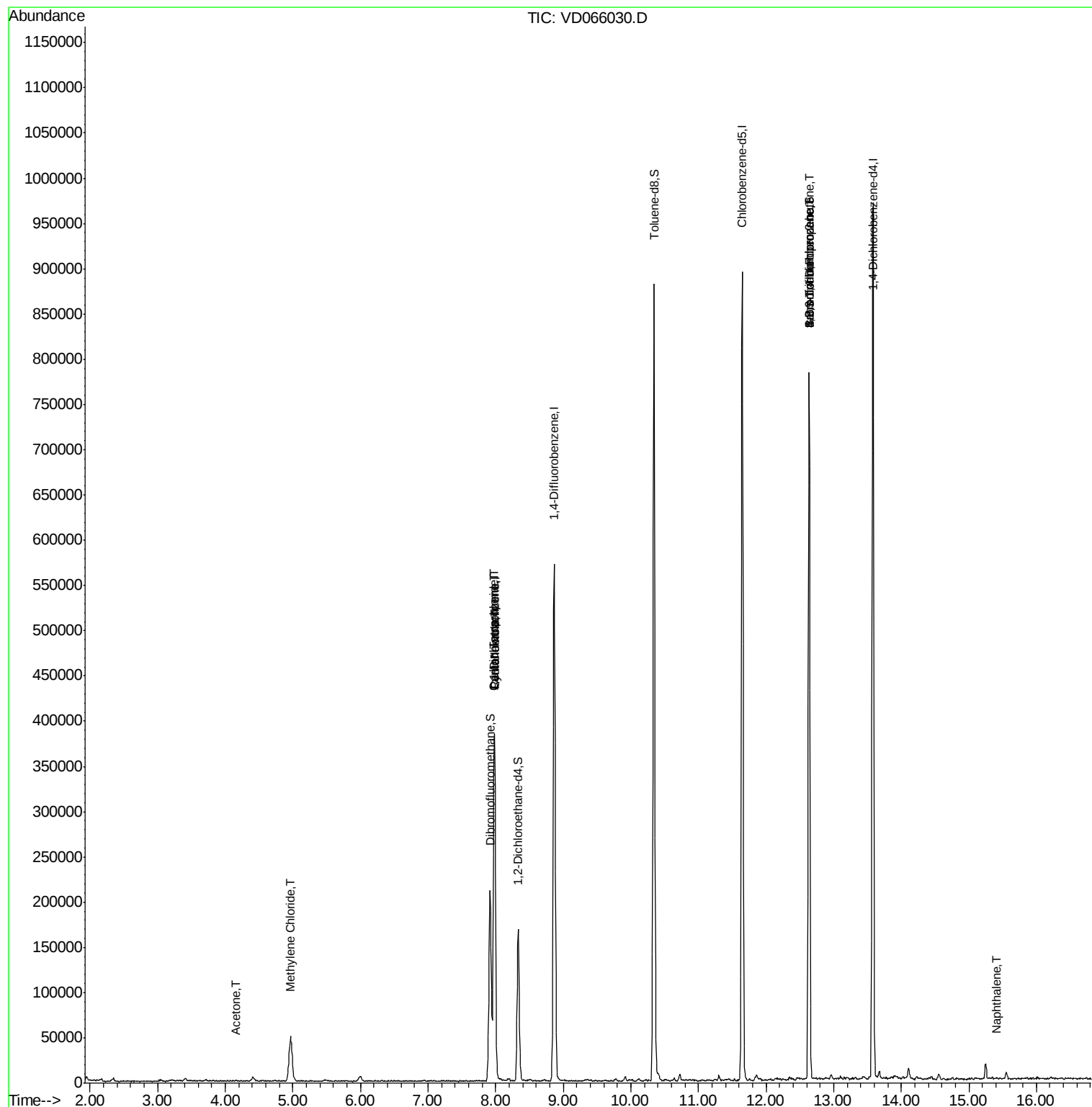
| Target Compounds               |       |     |        |           | Qvalue     |
|--------------------------------|-------|-----|--------|-----------|------------|
| 5) Bromomethane                | 2.83  | 94  | 72     | Below Cal | # 4        |
| 11) Tert butyl alcohol         | 5.18  | 59  | 53     | Below Cal | # 83       |
| 16) Acetone                    | 4.16  | 43  | 927    | 1.759     | ug/l # 42  |
| 20) Methylene Chloride         | 4.97  | 84  | 39727  | 11.344    | ug/l # 97  |
| 31) Cyclohexane                | 7.98  | 56  | 6181   | 1.320     | ug/l # 10  |
| 36) 1,1-Dichloropropene        | 7.97  | 75  | 19525  | 4.523     | ug/l # 50  |
| 38) Carbon Tetrachloride       | 7.97  | 117 | 28952  | 6.181     | ug/l # 17  |
| 71) Bromoform                  | 12.64 | 173 | 2505   | 1.198     | ug/l # 1   |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75  | 118747 | 56.414    | ug/l # 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75  | 118747 | 129.450   | ug/l # 11  |
| 95) Naphthalene                | 15.40 | 128 | 575    | 3.607     | ug/l # 68  |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD072320\  
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MSVOA\_D  
ClientSampleId :  
DRUM-COMP

Quant Time: Jul 24 03:08:07 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# 1031

Delta R.T. 0.01 min

Lab File: VD066030.D

Acq: 23 Jul 2020 17:52

Instrument :

MSVOA\_D

ClientSampleId :

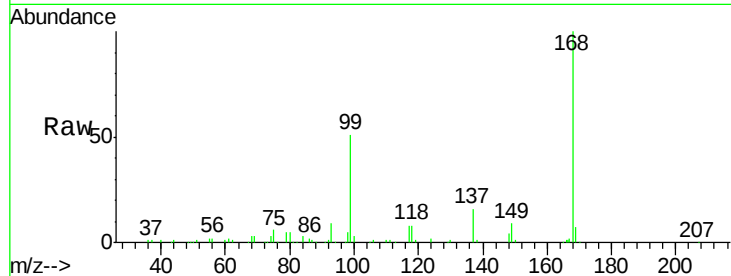
DRUM-COMP

Tot Ion:168 Resp: 319896

Ion Ratio Lower Upper

168 100

99 50.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

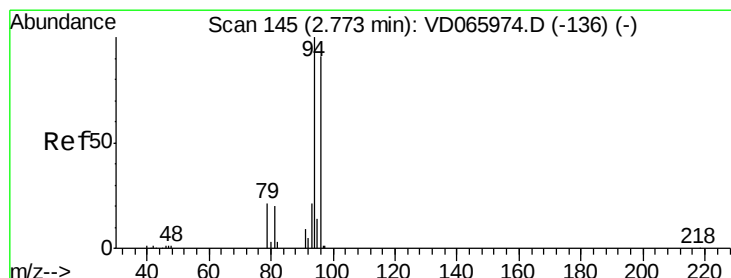
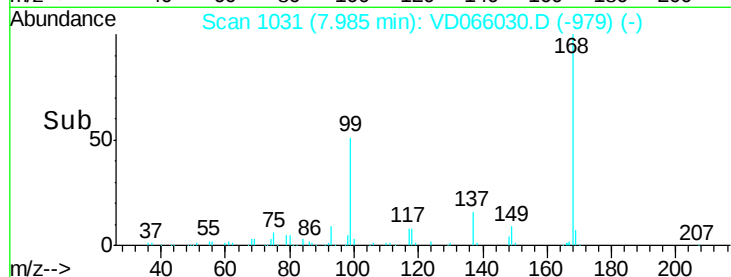
100000

50000

0

7.90 8.00 8.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.83 min Scan# 154

Delta R.T. 0.05 min

Lab File: VD066030.D

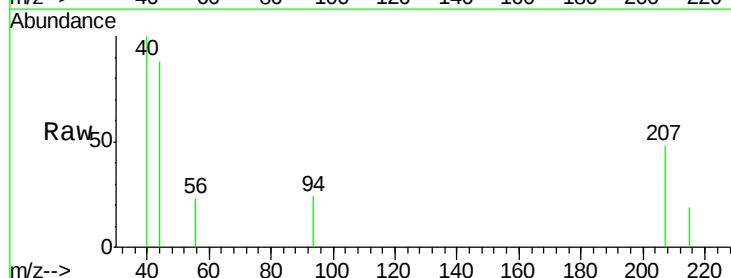
Acq: 23 Jul 2020 17:52

Tgt Ion: 94 Resp: 72

Ion Ratio Lower Upper

94 100

96 0.0 73.0 109.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.83

200

150

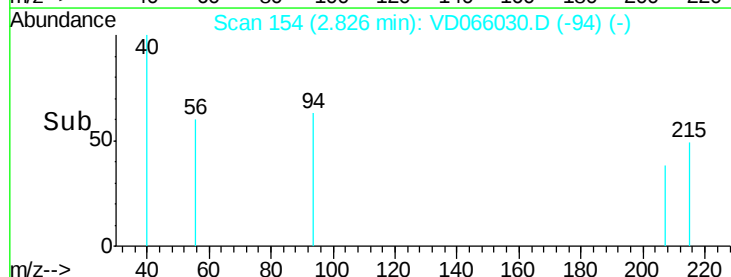
100

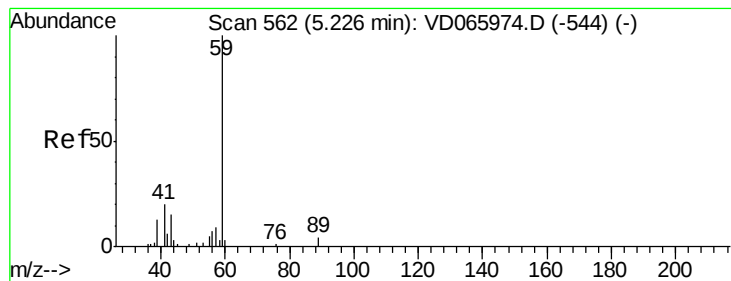
50

0

2.81 2.82 2.83 2.84

Time-->



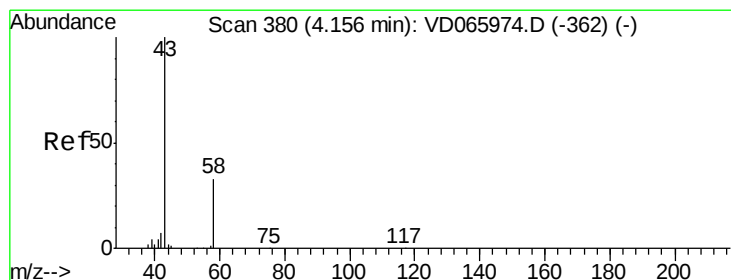
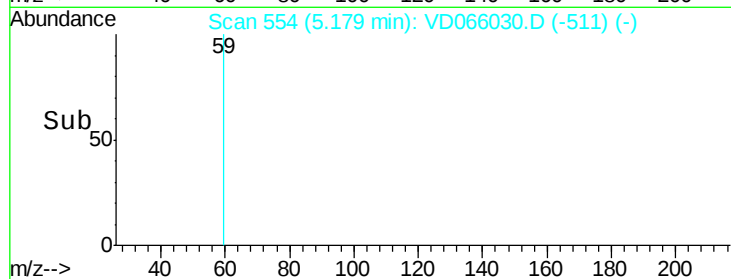
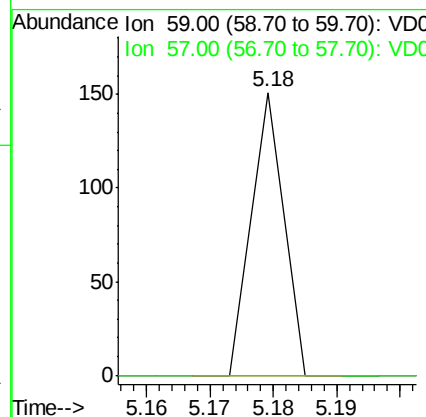
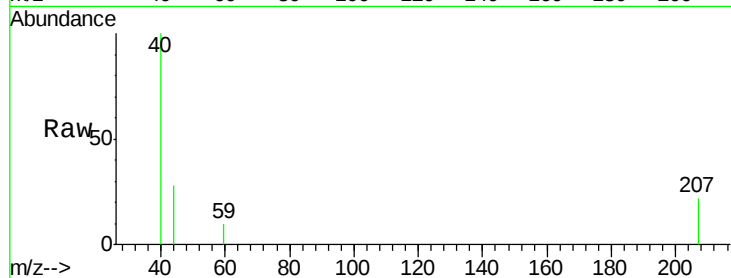


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.18 min Scan# 554  
 Delta R.T. -0.05 min  
 Lab File: VD066030.D  
 Acq: 23 Jul 2020 17:52

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DRUM-COMP

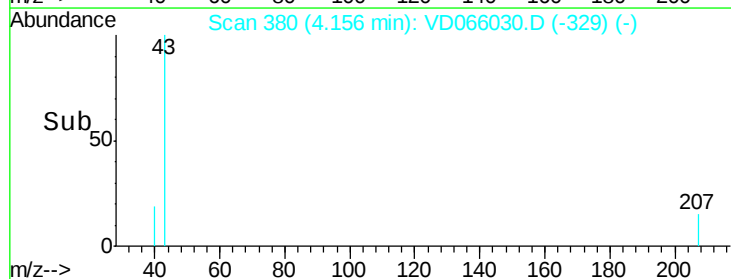
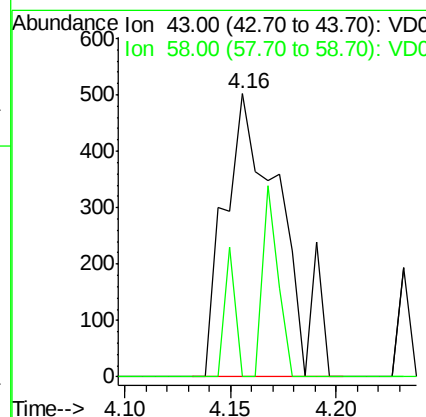
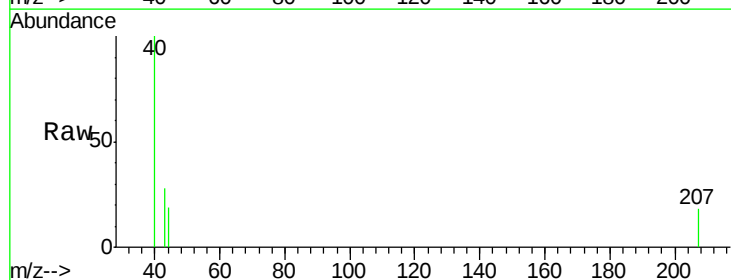
Tot Ion: 59 Resp: 53  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 4.5 6.7#

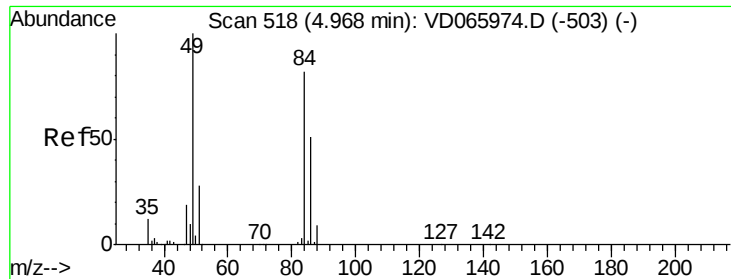


#16

Acetone  
 Concen: 1.759 ug/l  
 RT: 4.16 min Scan# 380  
 Delta R.T. -0.00 min  
 Lab File: VD066030.D  
 Acq: 23 Jul 2020 17:52

Tgt Ion: 43 Resp: 927  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 26.3 39.5#

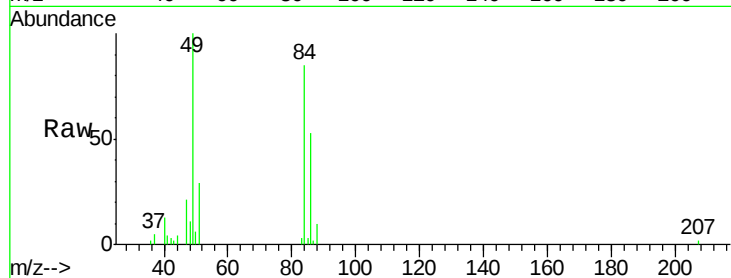




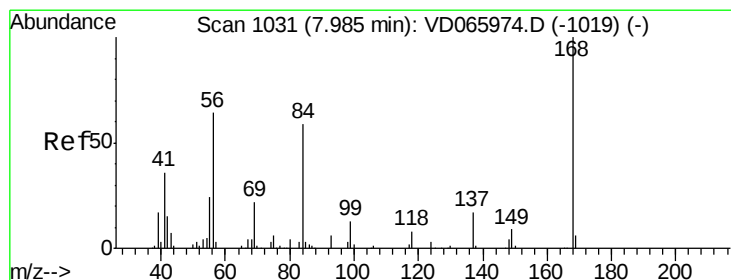
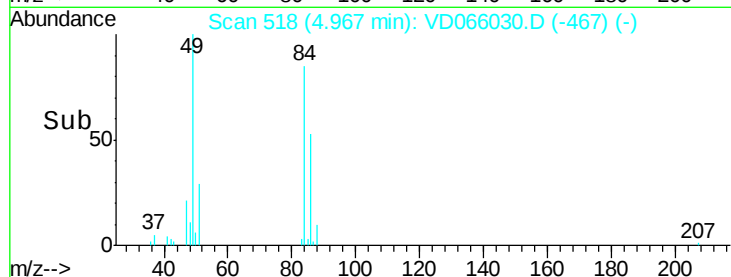
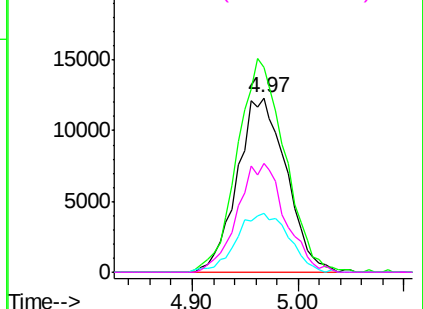
#20  
Methylene Chloride  
Concen: 11.344 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: VD066030.D  
Acq: 23 Jul 2020 17:52

Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP

| Tot Ion: | 84    | Resp: | 39727 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 117.5 | 97.7  | 146.5 |
| 51       | 33.7  | 27.4  | 41.2  |
| 86       | 62.1  | 49.4  | 74.2  |

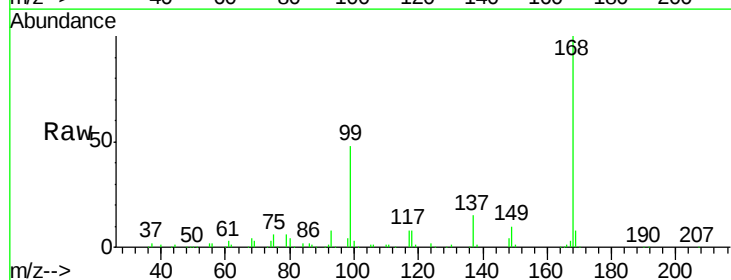


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

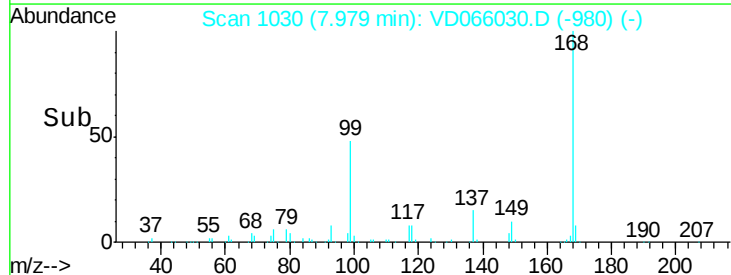
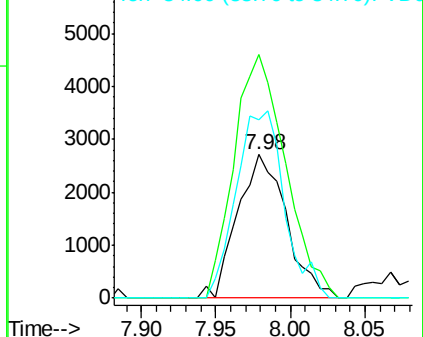


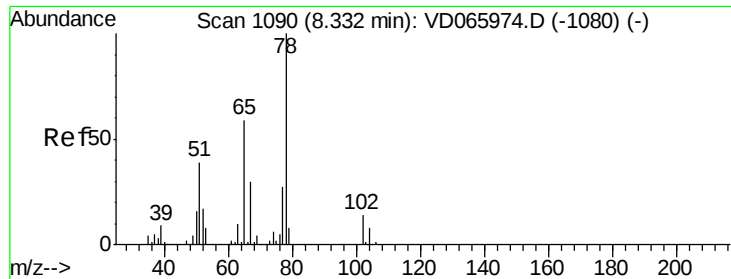
#31  
Cyclohexane  
Concen: 1.320 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD066030.D  
Acq: 23 Jul 2020 17:52

| Tgt Ion: | 56    | Resp: | 6181   |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 169.5 | 28.0  | 42.0#  |
| 84       | 124.1 | 72.6  | 109.0# |



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

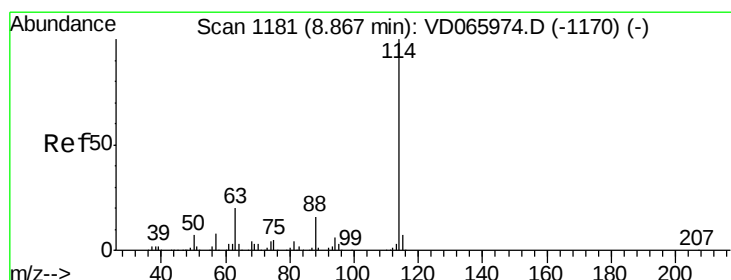
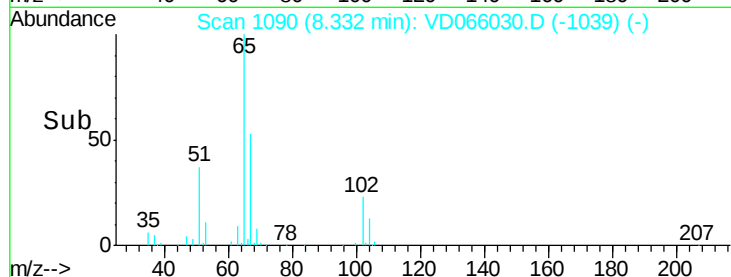
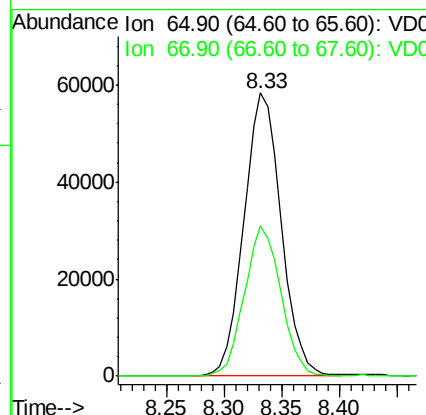
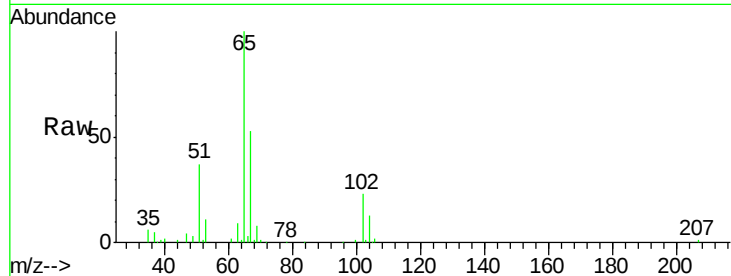




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.385 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. -0.00 min  
 Lab File: VD066030.D  
 Acq: 23 Jul 2020 17:52

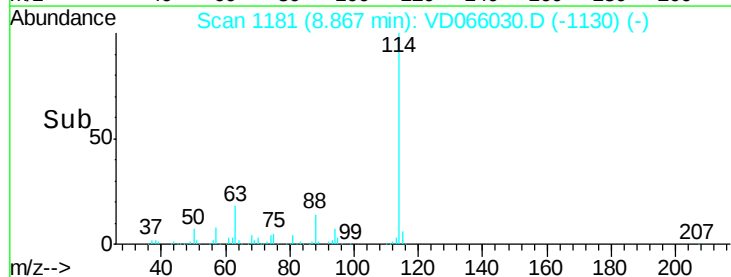
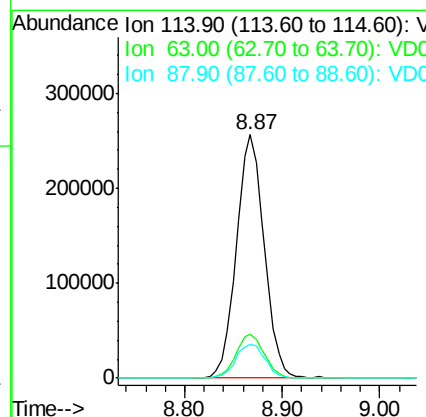
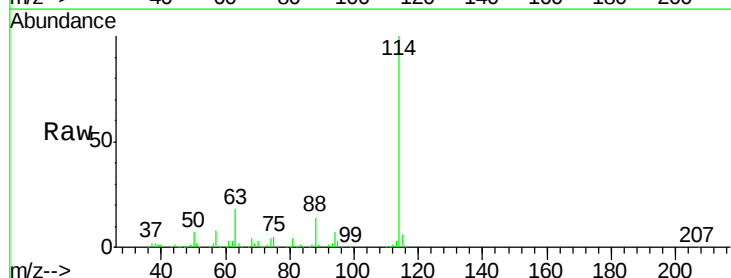
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DRUM-COMP

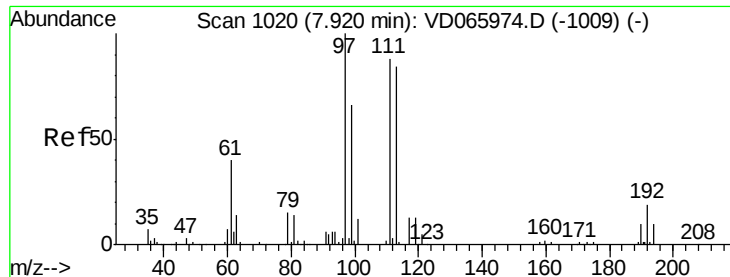
Tot Ion: 65 Resp: 131149  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 105.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD066030.D  
 Acq: 23 Jul 2020 17:52

Tgt Ion: 114 Resp: 505810  
 Ion Ratio Lower Upper  
 114 100  
 63 18.2 0.0 39.6  
 88 13.8 0.0 31.2





#35

Dibromofluoromethane

Concen: 48.906 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD066030.D

Acq: 23 Jul 2020 17:52

Instrument :

MSVOA\_D

ClientSampleId :

DRUM-COMP

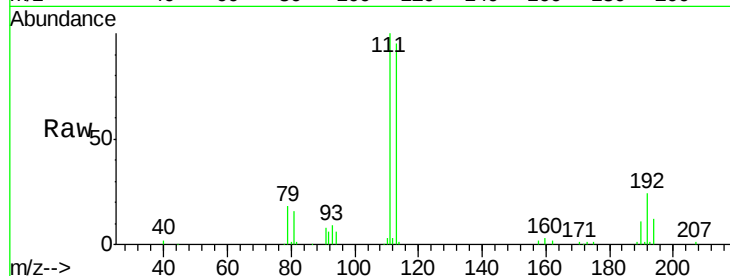
Tot Ion:113 Resp: 150038

Ion Ratio Lower Upper

113 100

111 104.1 83.2 124.8

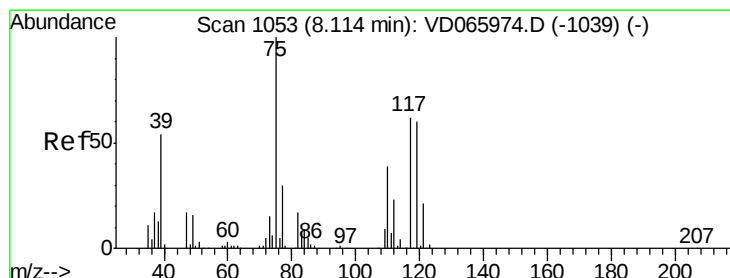
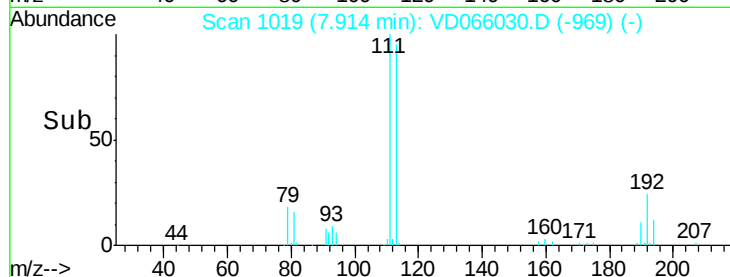
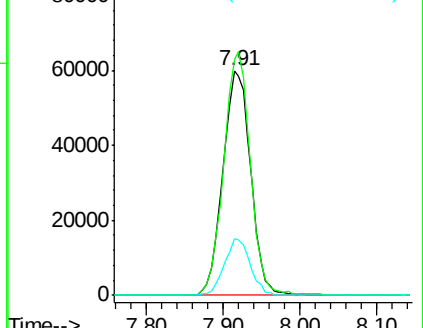
192 23.7 18.7 28.1



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



#36

1,1-Dichloropropene

Concen: 4.523 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066030.D

Acq: 23 Jul 2020 17:52

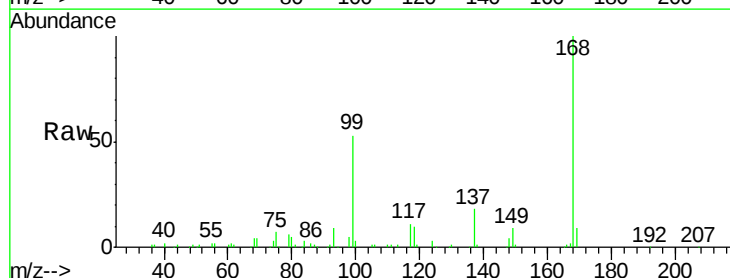
Tgt Ion: 75 Resp: 19525

Ion Ratio Lower Upper

75 100

110 11.0 19.5 58.5#

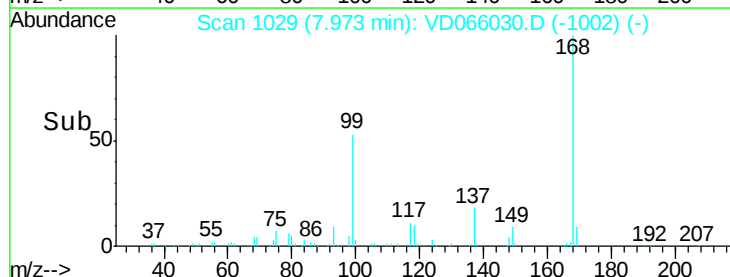
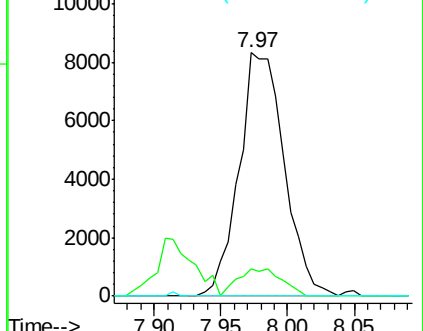
77 0.0 24.7 37.1#

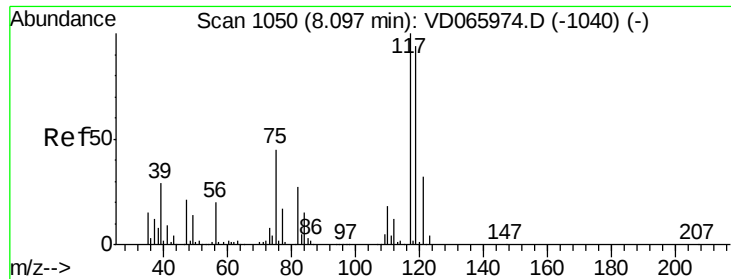


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.181 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066030.D

Acq: 23 Jul 2020 17:52

Instrument :

MSVOA\_D

ClientSampleId :

DRUM-COMP

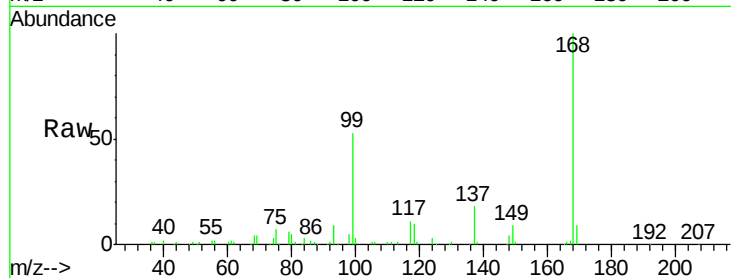
Tot Ion:117 Resp: 28952

Ion Ratio Lower Upper

117 100

119 5.3 75.0 112.6#

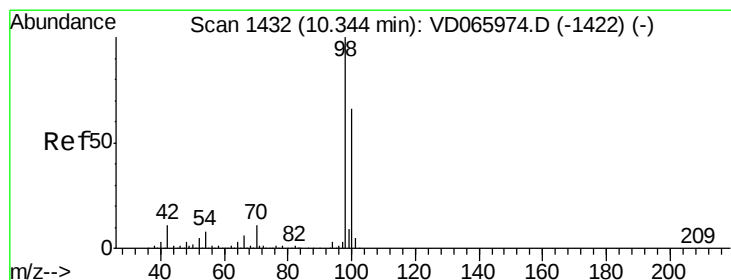
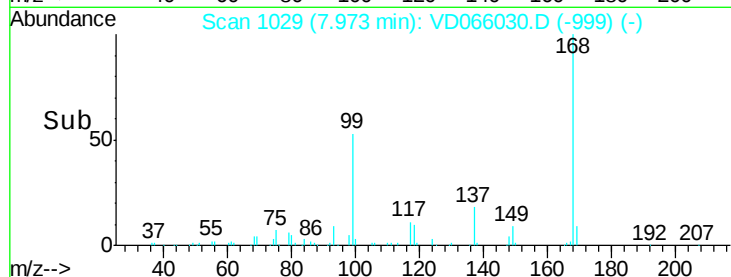
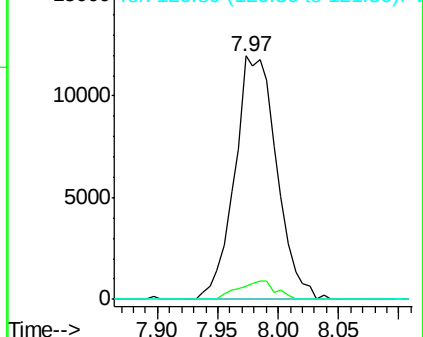
121 0.0 25.5 38.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 53.767 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD066030.D

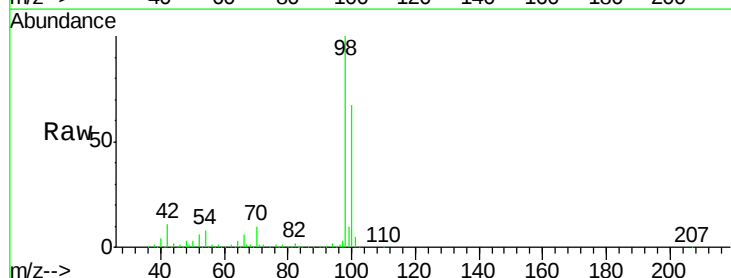
Acq: 23 Jul 2020 17:52

Tgt Ion: 98 Resp: 614487

Ion Ratio Lower Upper

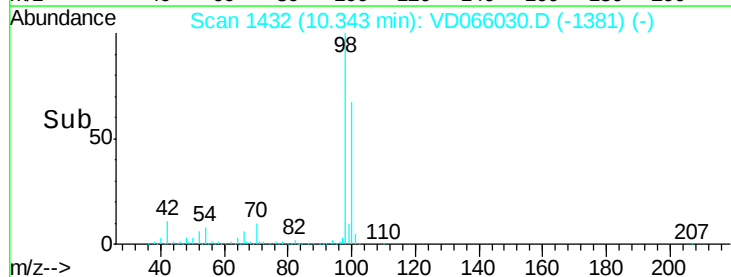
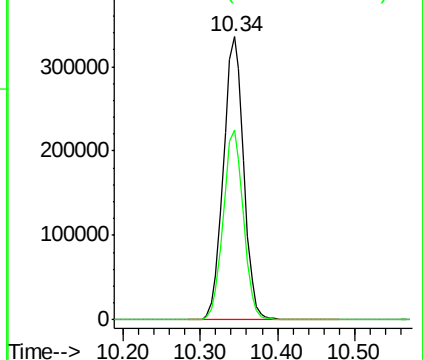
98 100

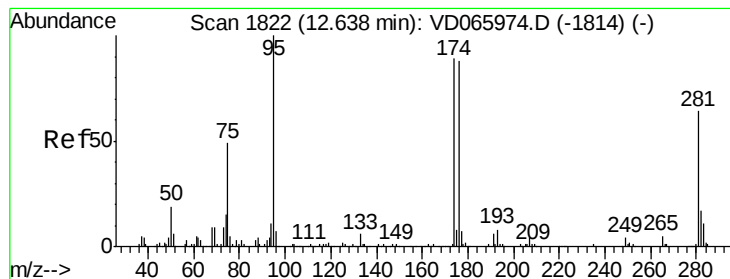
100 66.7 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#62

4-Bromofluorobenzene

Concen: 61.187 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD066030.D

Acq: 23 Jul 2020 17:52

Instrument :

MSVOA\_D

ClientSampleId :

DRUM-COMP

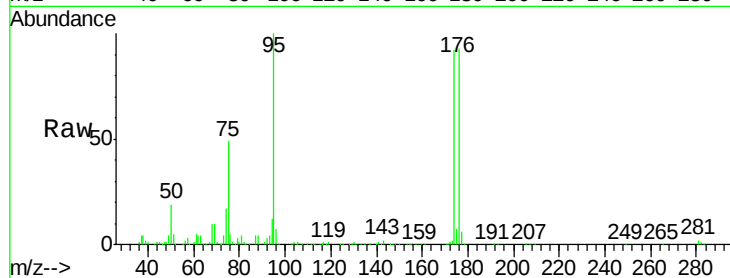
Tot Ion: 95 Resp: 242471

Ion Ratio Lower Upper

95 100

174 93.0 0.0 178.8

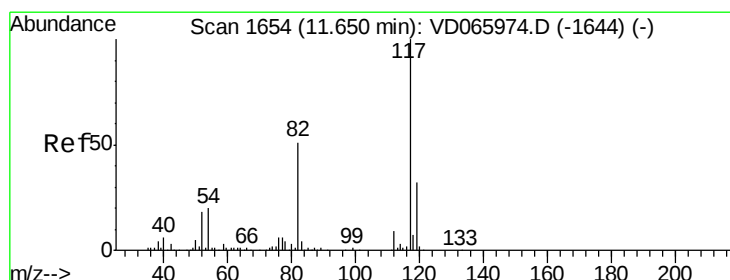
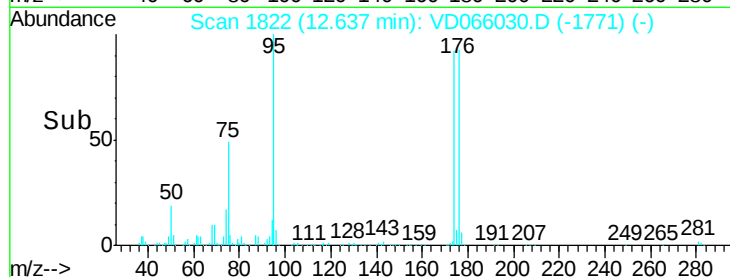
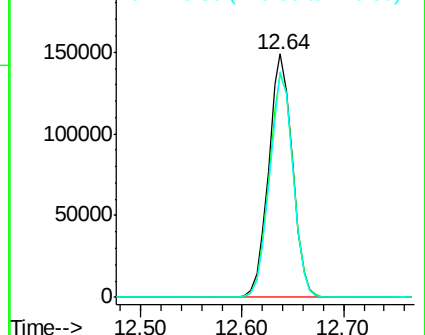
176 90.5 0.0 172.6



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: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD066030.D

Acq: 23 Jul 2020 17:52

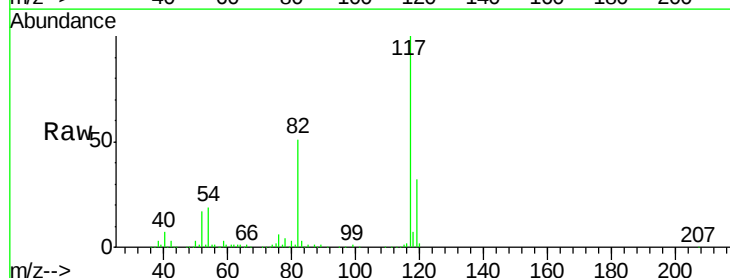
Tgt Ion: 117 Resp: 527822

Ion Ratio Lower Upper

117 100

82 50.6 41.1 61.7

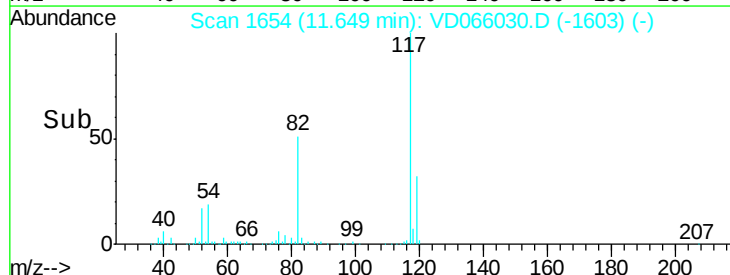
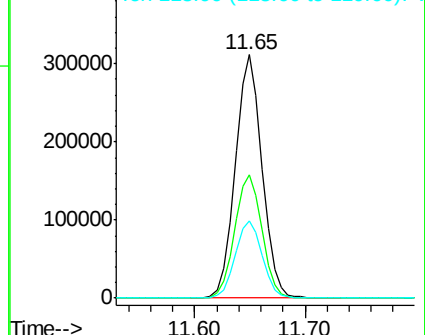
119 31.6 25.9 38.9

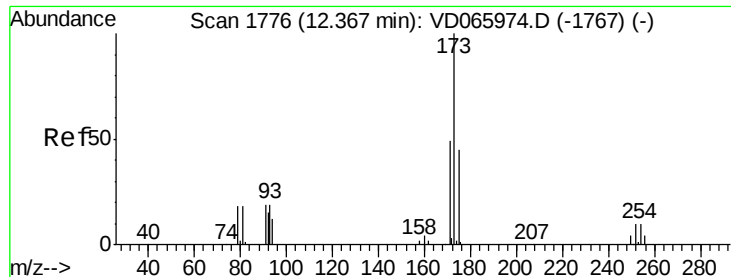


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

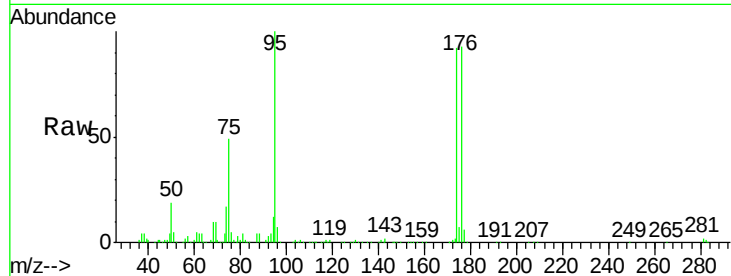




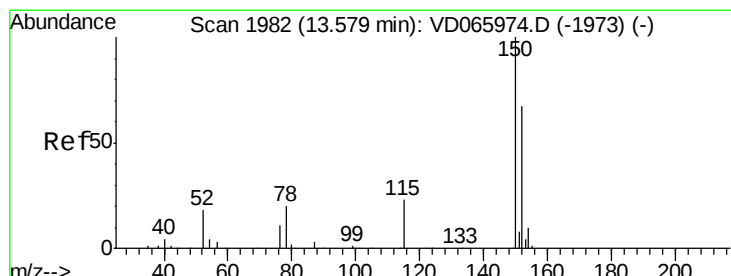
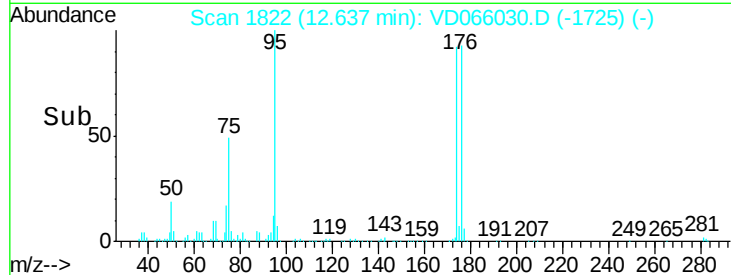
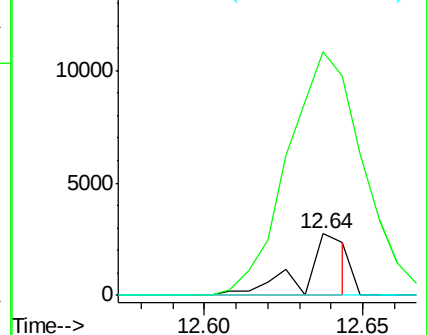
#71  
Bromoform  
Concen: 1.198 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.27 min  
Lab File: VD066030.D  
Acq: 23 Jul 2020 17:52

Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP

Tot Ion:173 Resp: 2505  
Ion Ratio Lower Upper  
173 100  
175 553.7 24.1 72.3#  
254 0.0 0.0 0.0

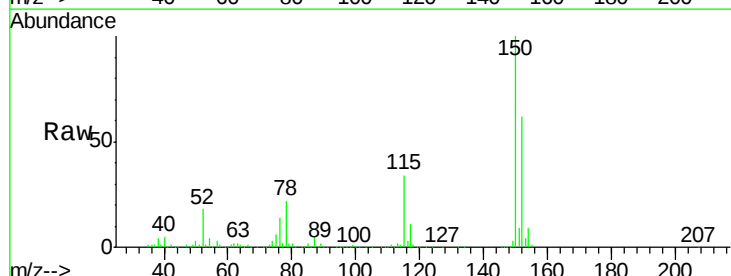


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

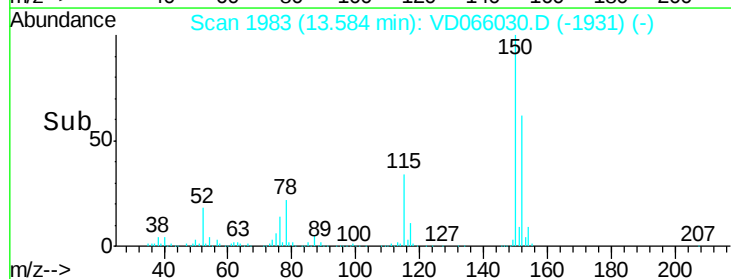
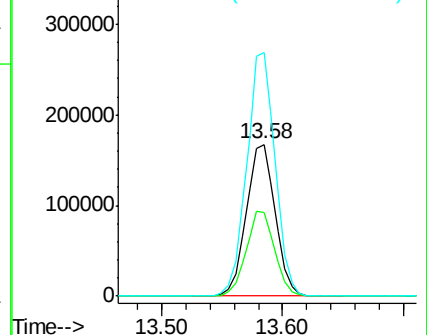


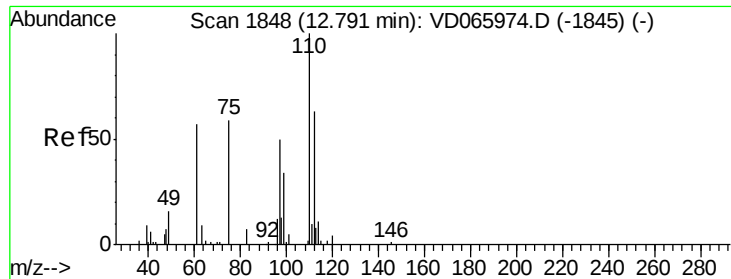
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD066030.D  
Acq: 23 Jul 2020 17:52

Tgt Ion:152 Resp: 279559  
Ion Ratio Lower Upper  
152 100  
115 54.8 27.9 83.7  
150 158.0 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





#76

1,2,3-Trichloropropane

Concen: 56.414 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD066030.D

Acq: 23 Jul 2020 17:52

Instrument :

MSVOA\_D

ClientSampleId :

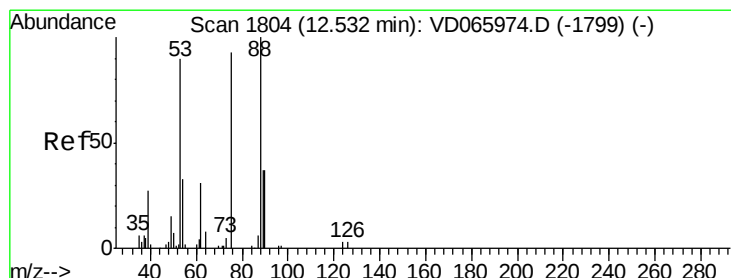
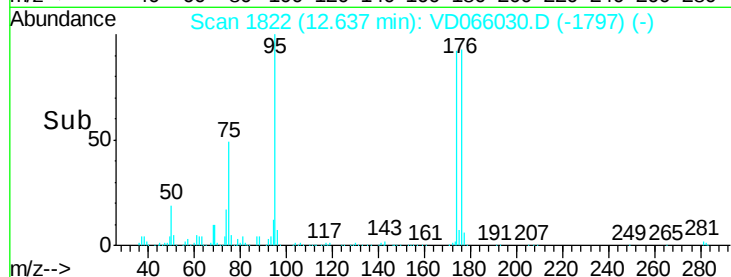
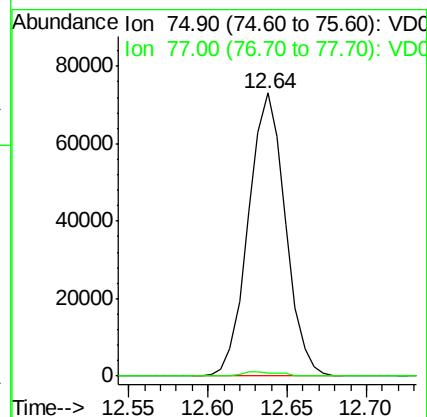
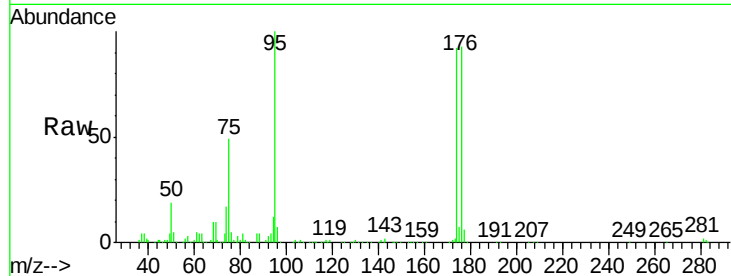
DRUM-COMP

Tot Ion: 75 Resp: 118747

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 129.450 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD066030.D

Acq: 23 Jul 2020 17:52

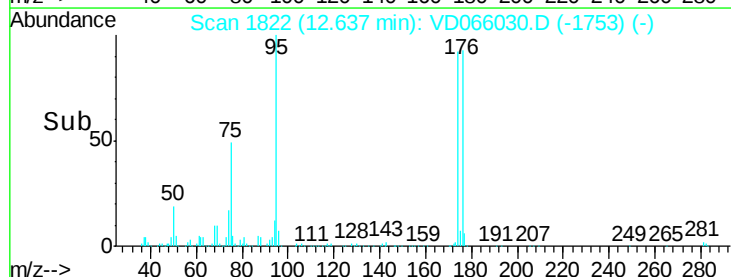
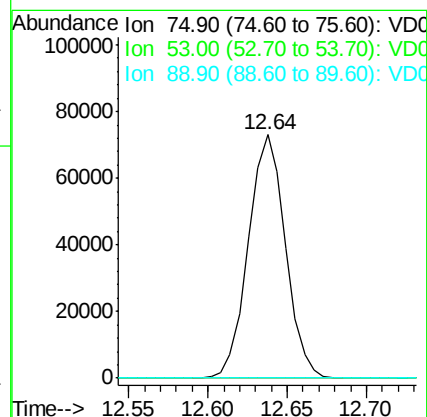
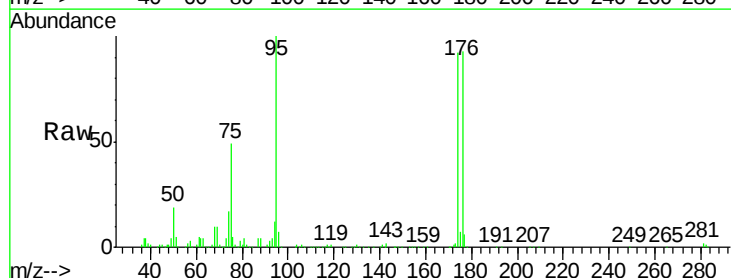
Tgt Ion: 75 Resp: 118747

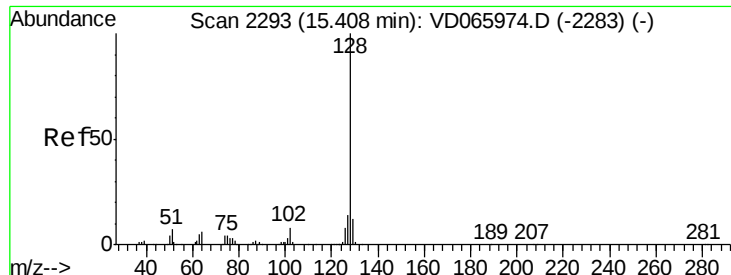
Ion Ratio Lower Upper

75 100

53 0.2 76.8 115.2#

89 0.0 37.0 55.4#





#95  
Naphthalene  
Concen: 3.607 ug/l  
RT: 15.40 min Scan# 2292  
Delta R.T. -0.01 min  
Lab File: VD066030.D  
Acq: 23 Jul 2020 17:52

Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.8  | 16.2# |
| 129     | 0.0   | 8.9   | 13.3# |

