

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082620\  
 Data File : VD066422.D  
 Acq On : 26 Aug 2020 16:00  
 Operator : VA/SY  
 Sample : L3793-19  
 Misc : 8.15G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-7

Quant Time: Aug 27 07:29:44 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  | 203144   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 295284   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 268912   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 138129   | 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   | 109408   | 54.93  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.86% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 90925    | 49.24  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.48%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 339819   | 50.30  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.60% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 115880   | 48.34  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.68%  |          |

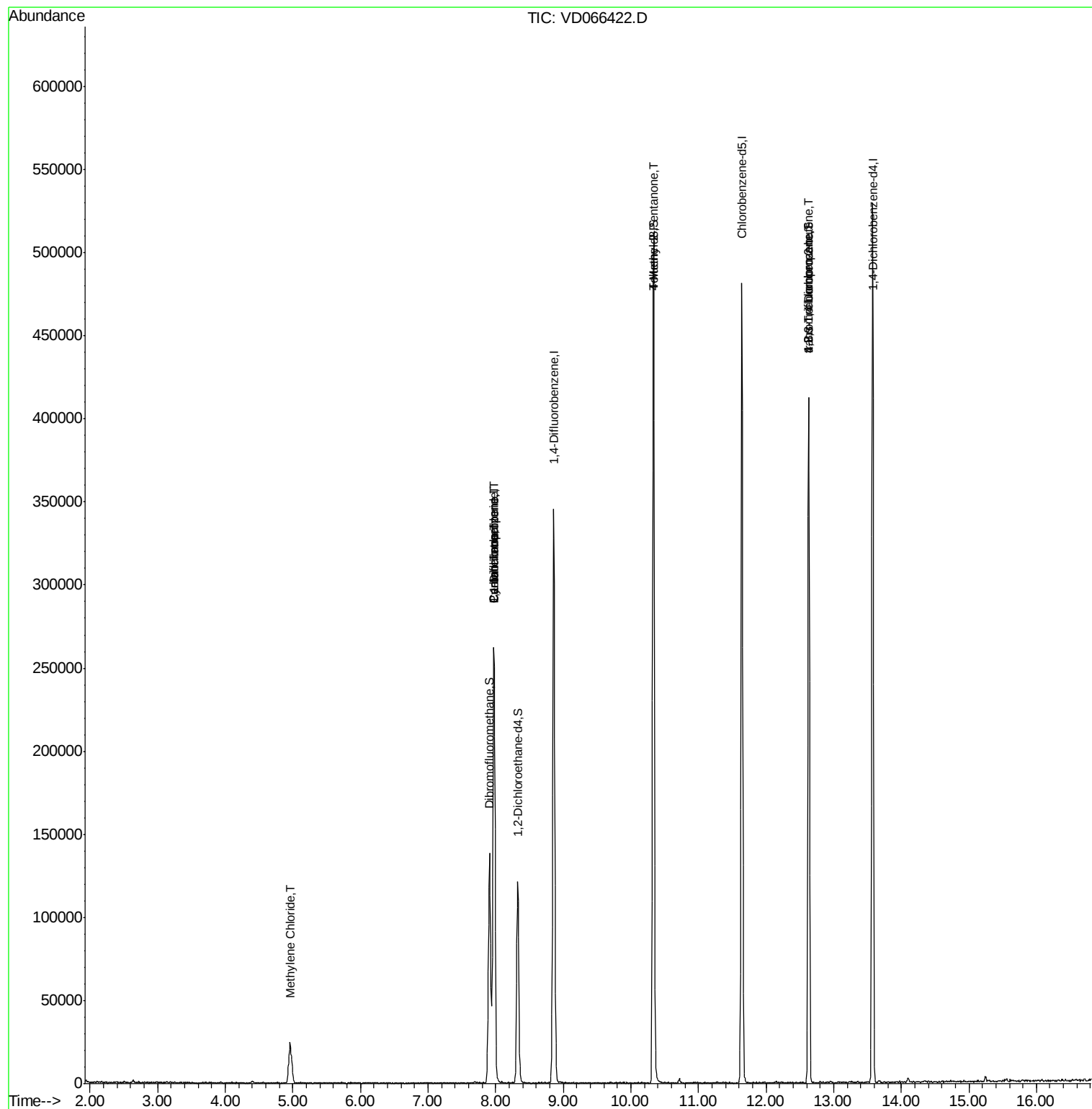
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 20) Methylene Chloride         | 4.96  | 84   | 17821    | 3.384   | ug/l # | 87     |
| 31) Cyclohexane                | 7.97  | 56   | 4703     | 1.701   | ug/l # | 20     |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 14669    | 5.445   | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 7.97  | 117  | 20832    | 5.935   | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 1734     | 1.949   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 70424    | 72.472  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 70424    | 153.834 | ug/l # | 6      |

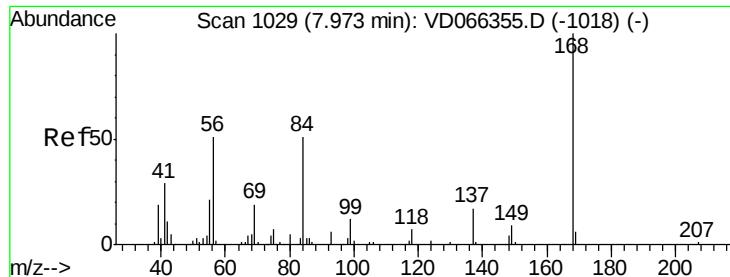
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD082620\  
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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: VD066422.D

Acq: 26 Aug 2020 16:00

Instrument :

MSVOA\_D

ClientSampleId :

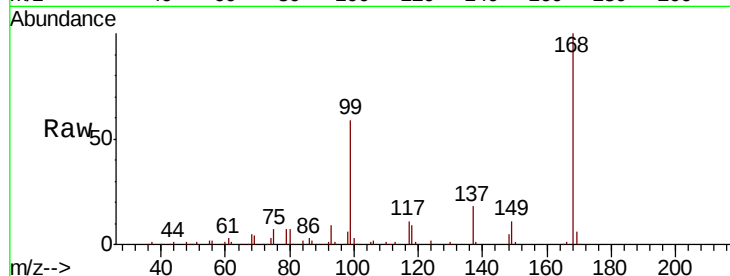
TP-7

Tot Ion:168 Resp: 203144

Ion Ratio Lower Upper

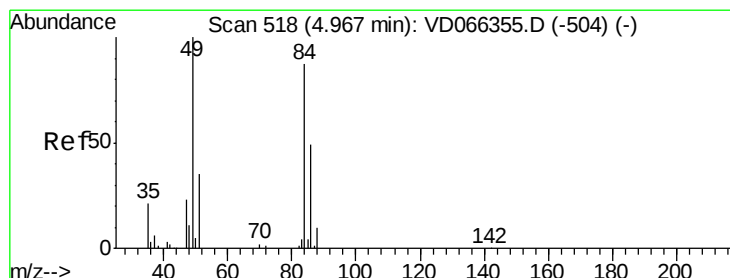
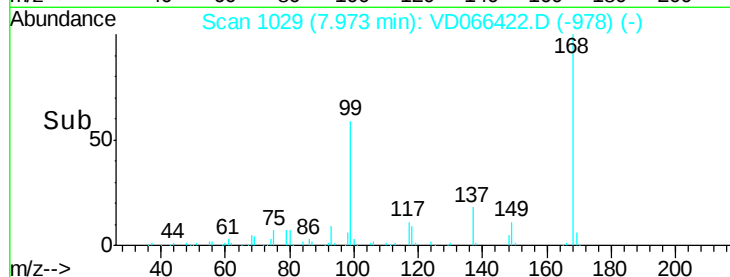
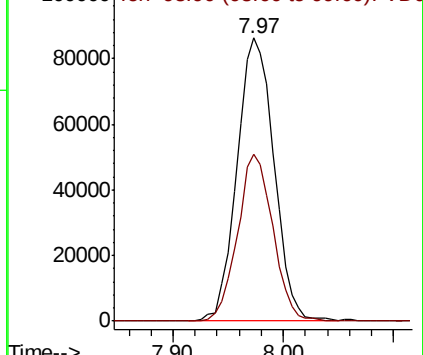
168 100

99 58.9 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#20

Methylene Chloride

Concen: 3.384 ug/l

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD066422.D

Acq: 26 Aug 2020 16:00

Tgt Ion: 84 Resp: 17821

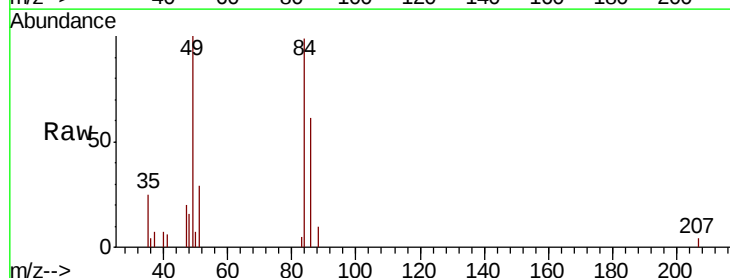
Ion Ratio Lower Upper

84 100

49 100.9 92.5 138.7

51 28.8 32.5 48.7#

86 61.4 45.0 67.6

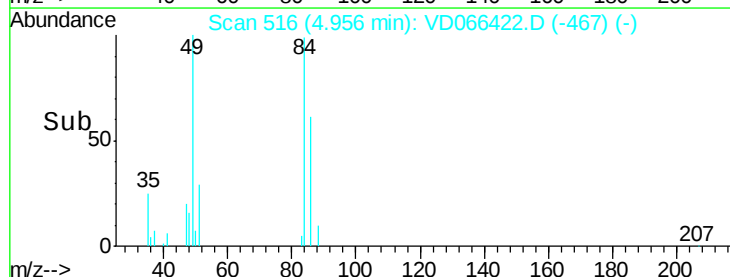
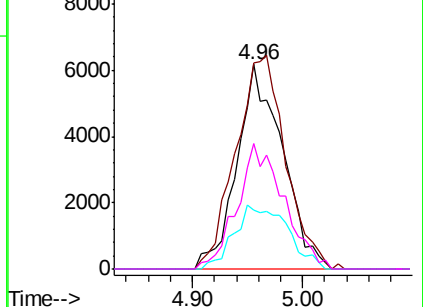


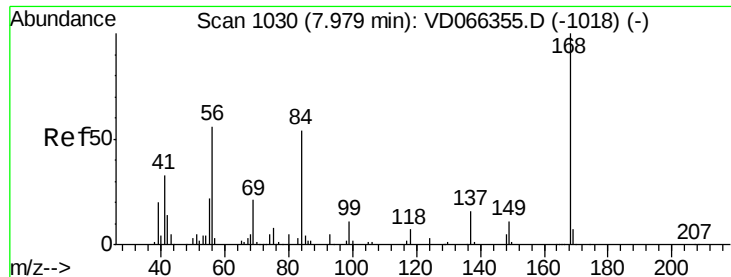
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

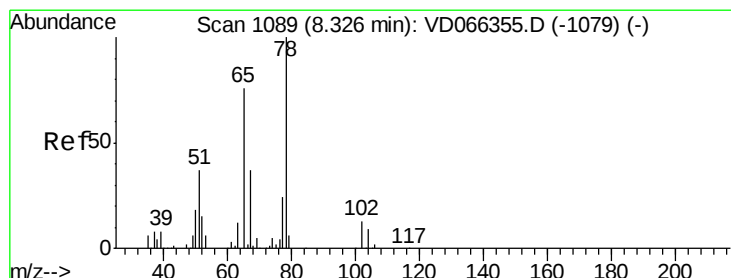
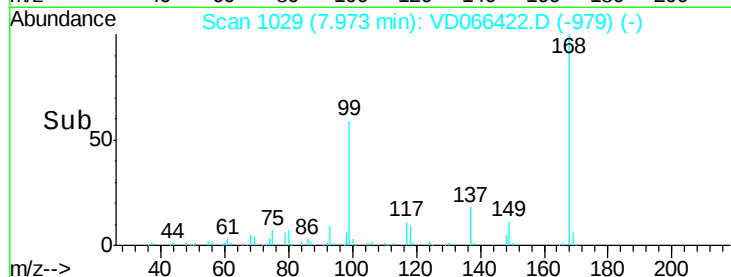
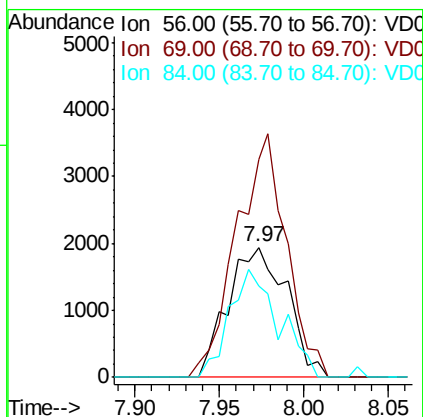
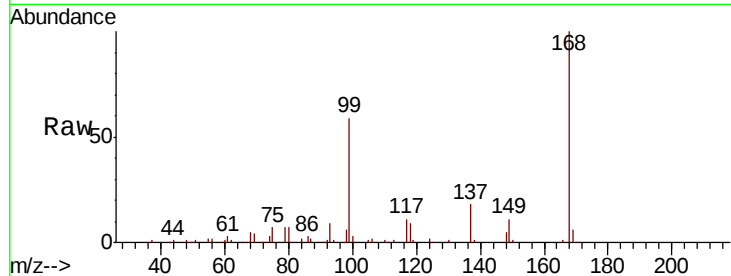




#31  
Cyclohexane  
Concen: 1.701 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD066422.D  
Acq: 26 Aug 2020 16:00

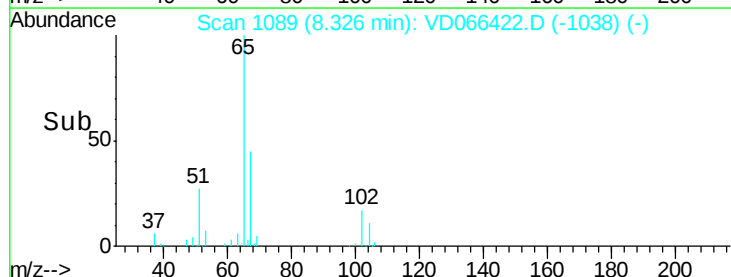
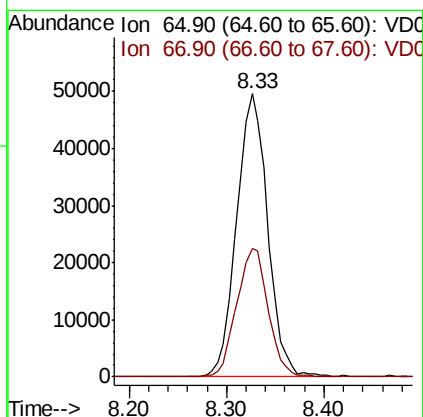
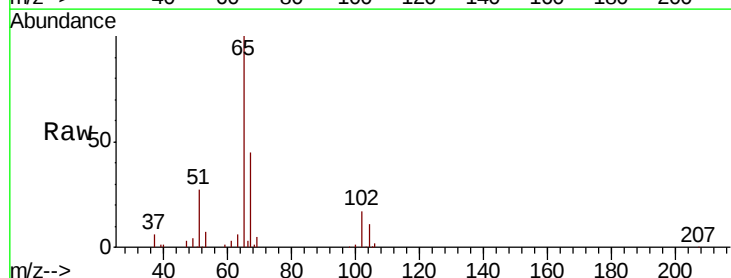
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-7

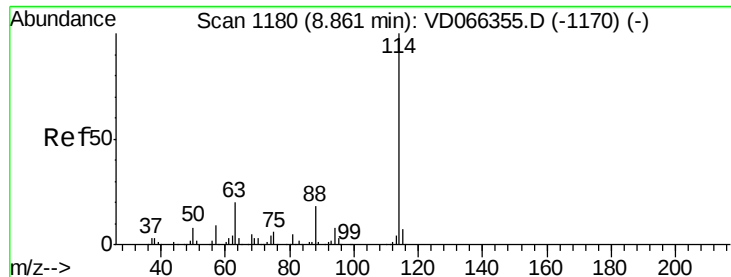
Tot Ion: 56 Resp: 4703  
Ion Ratio Lower Upper  
56 100  
69 168.1 29.6 44.4#  
84 70.1 76.6 115.0#



#33  
1,2-Dichloroethane-d4  
Concen: 54.934 ug/l  
RT: 8.33 min Scan# 1089  
Delta R.T. -0.00 min  
Lab File: VD066422.D  
Acq: 26 Aug 2020 16:00

Tgt Ion: 65 Resp: 109408  
Ion Ratio Lower Upper  
65 100  
67 45.9 0.0 101.6

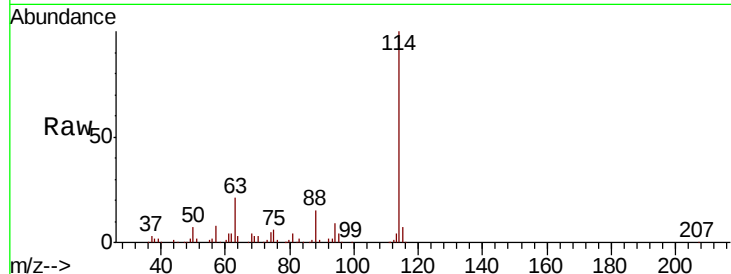




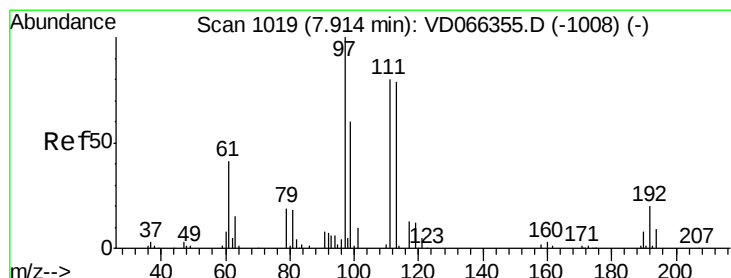
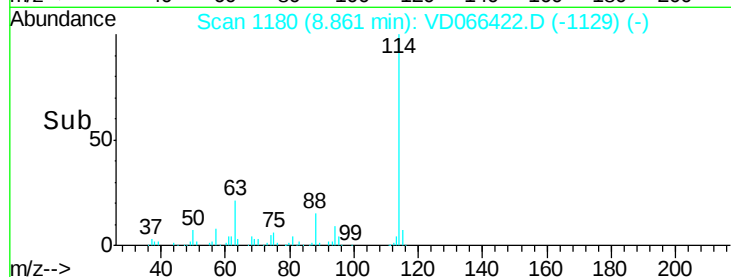
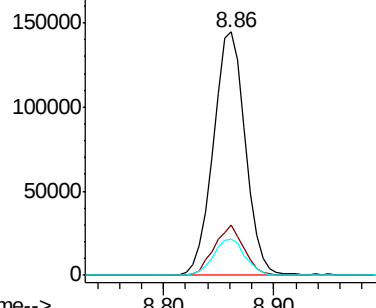
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. -0.00 min  
 Lab File: VD066422.D  
 Acq: 26 Aug 2020 16:00

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.5  | 0.0   | 40.8  |
| 88      | 14.8  | 0.0   | 35.4  |

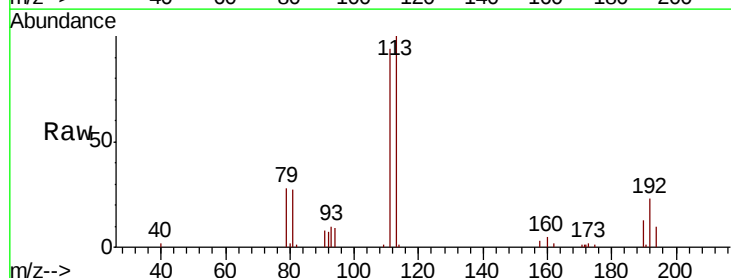


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VDC  
 Ion 87.90 (87.60 to 88.60): VDC

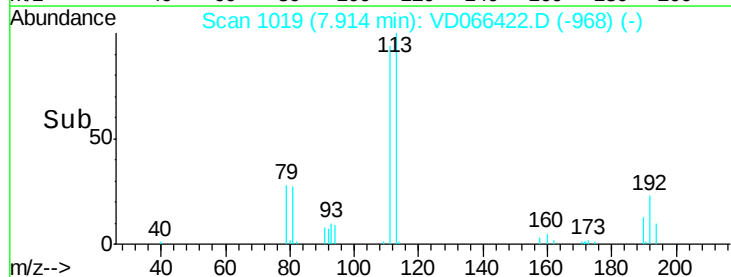
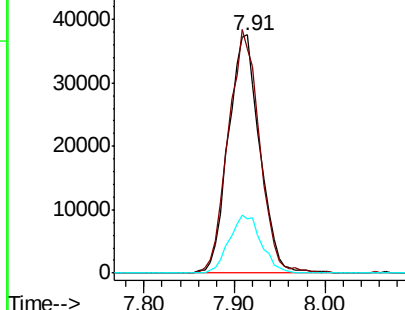


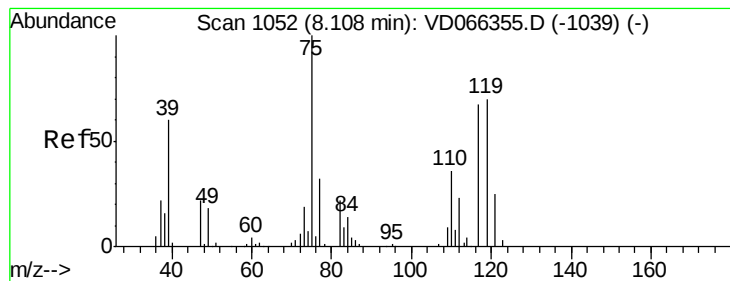
#35  
 Dibromofluoromethane  
 Concen: 49.243 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.00 min  
 Lab File: VD066422.D  
 Acq: 26 Aug 2020 16:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.1 | 80.3  | 120.5 |
| 192     | 24.7  | 19.0  | 28.6  |



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





#36

1,1-Dichloropropene

Concen: 5.445 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066422.D

Acq: 26 Aug 2020 16:00

Instrument :

MSVOA\_D

ClientSampleId :

TP-7

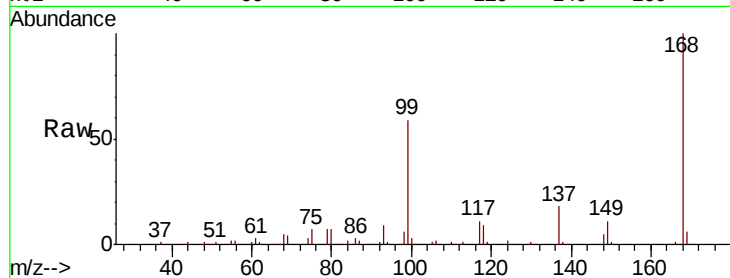
Tot Ion: 75 Resp: 14669

Ion Ratio Lower Upper

75 100

110 14.4 18.7 56.1#

77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

7.97

6000

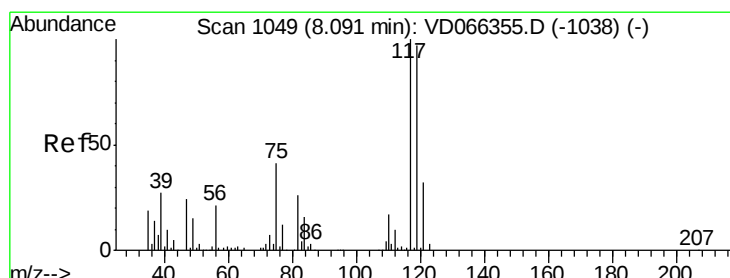
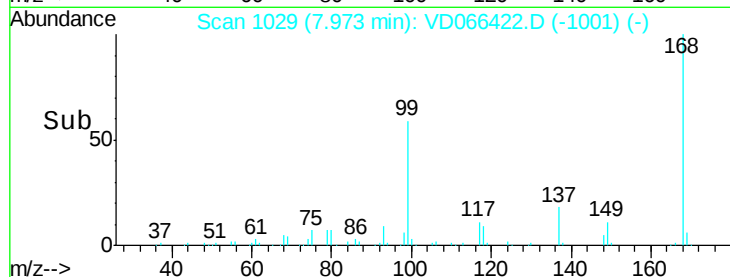
4000

2000

0

7.90 7.95 8.00 8.05

Time-->



#38

Carbon Tetrachloride

Concen: 5.935 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066422.D

Acq: 26 Aug 2020 16:00

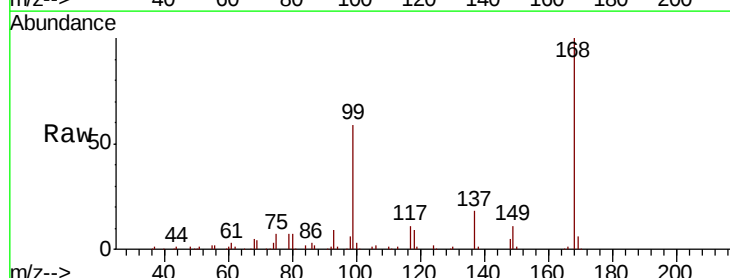
Tgt Ion: 117 Resp: 20832

Ion Ratio Lower Upper

117 100

119 5.5 77.2 115.8#

121 0.0 25.8 38.8#



Abundance Ion 116.80 (116.50 to 117.50): VDC

Ion 118.80 (118.50 to 119.50): VDC

Ion 120.80 (120.50 to 121.50): VDC

7.97

12000

10000

8000

6000

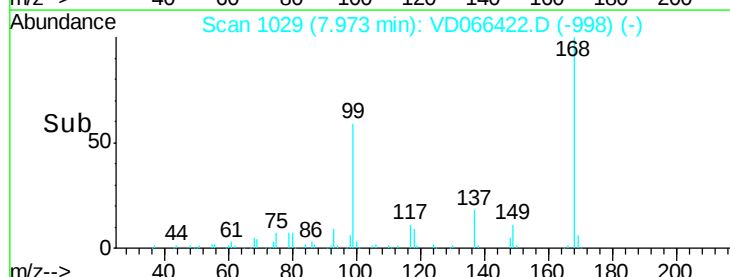
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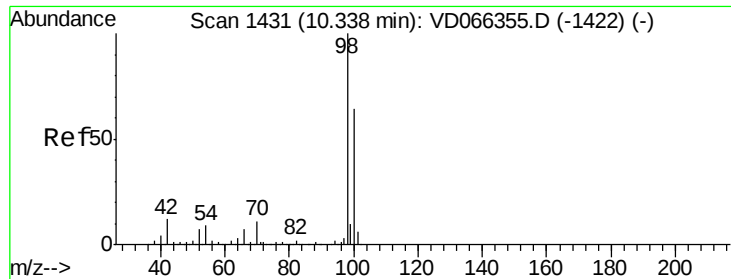
2000

0

7.90 7.95 8.00 8.05

Time-->

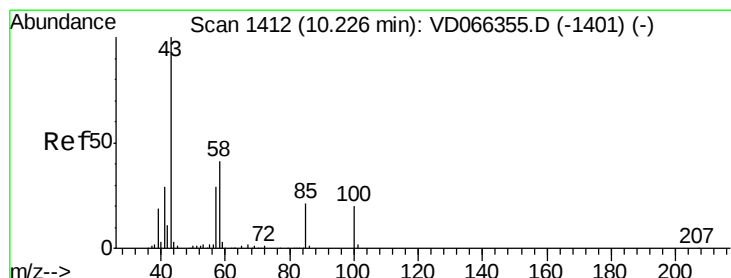
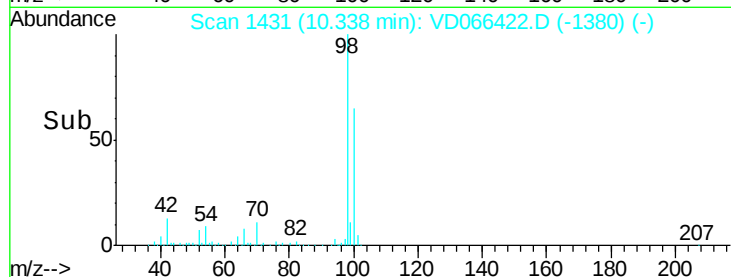
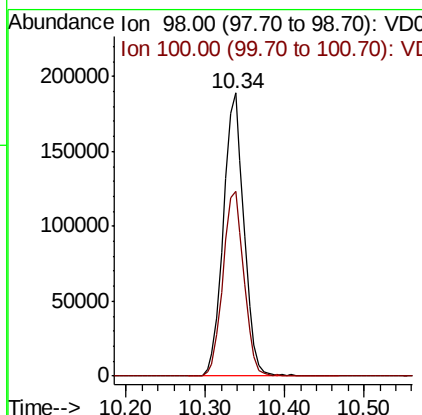
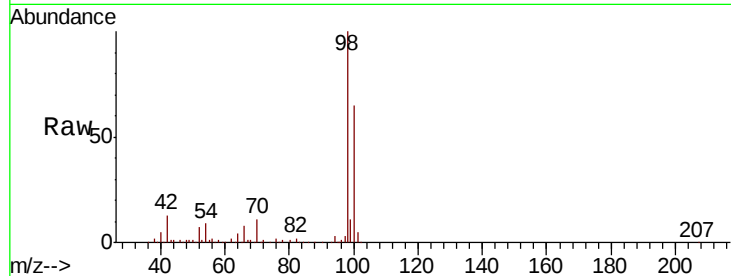




#50  
Toluene-d8  
Concen: 50.300 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. -0.00 min  
Lab File: VD066422.D  
Acq: 26 Aug 2020 16:00

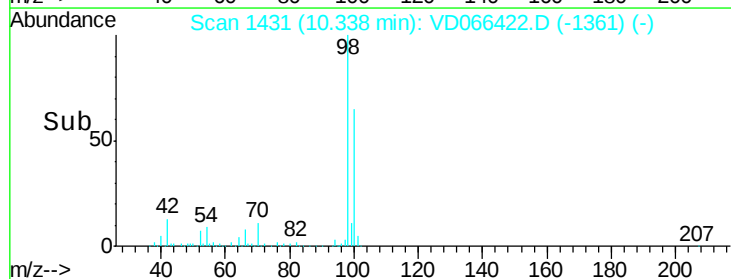
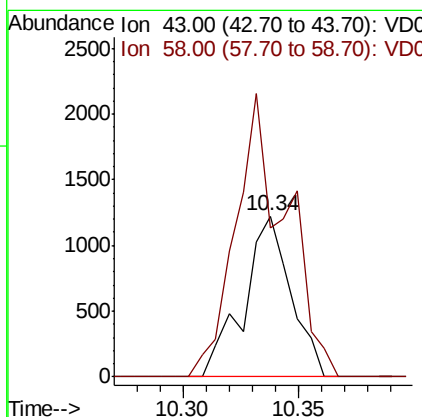
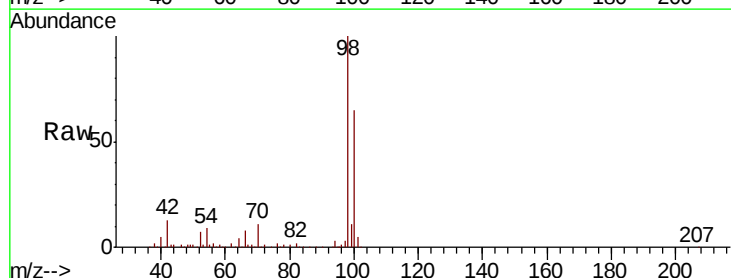
Instrument :  
MSVOA\_D  
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TP-7

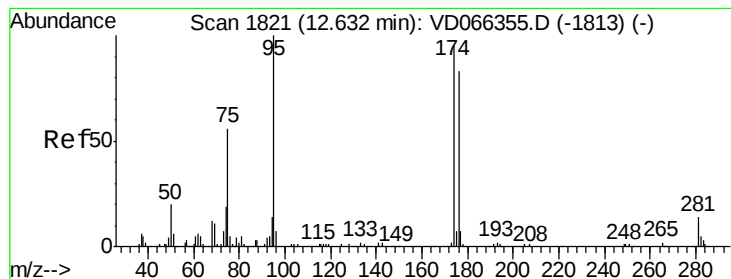
Tot Ion: 98 Resp: 339819  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.0 79.4



#51  
4-Methyl-2-Pentanone  
Concen: 1.949 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.11 min  
Lab File: VD066422.D  
Acq: 26 Aug 2020 16:00

Tgt Ion: 43 Resp: 1734  
Ion Ratio Lower Upper  
43 100  
58 188.9 31.4 47.2#





#62

4-Bromofluorobenzene

Concen: 48.338 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066422.D

Acq: 26 Aug 2020 16:00

Instrument :

MSVOA\_D

ClientSampleId :

TP-7

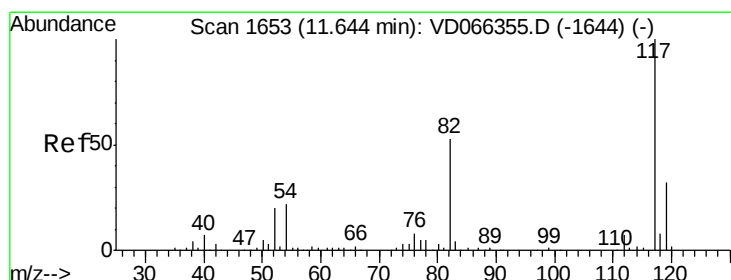
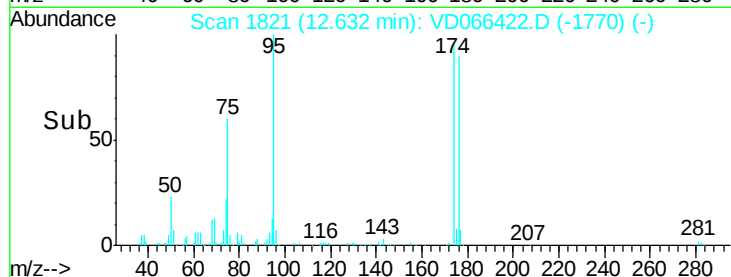
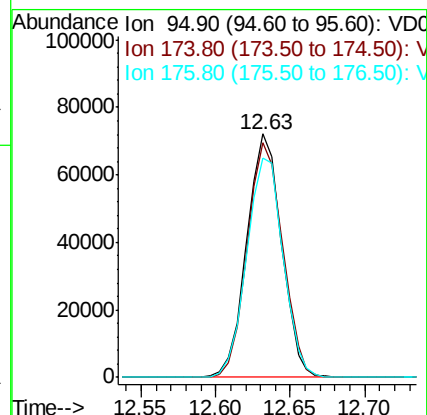
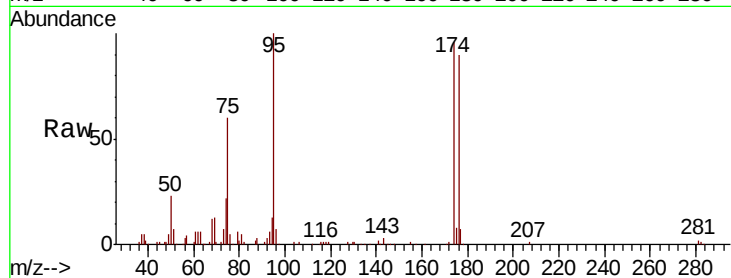
Tot Ion: 95 Resp: 115880

Ion Ratio Lower Upper

95 100

174 98.0 0.0 183.4

176 94.7 0.0 173.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD066422.D

Acq: 26 Aug 2020 16:00

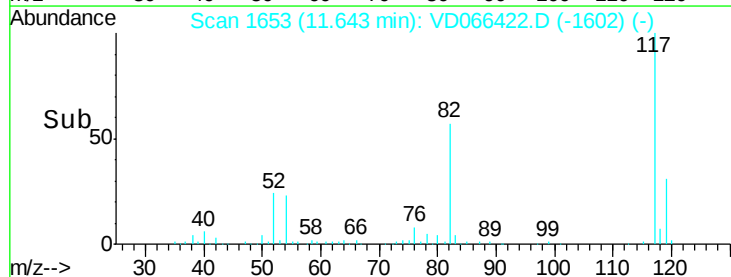
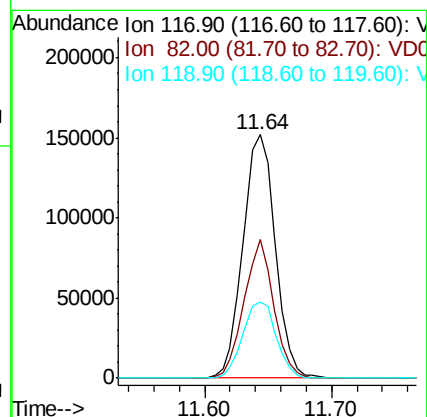
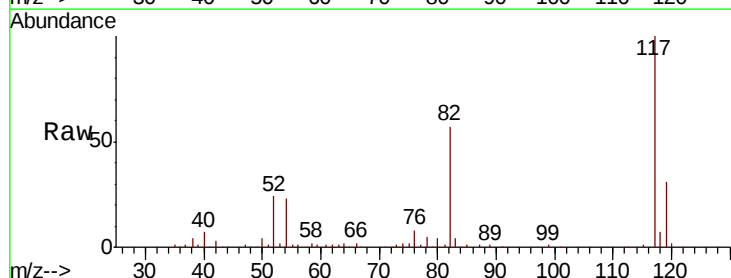
Tgt Ion: 117 Resp: 268912

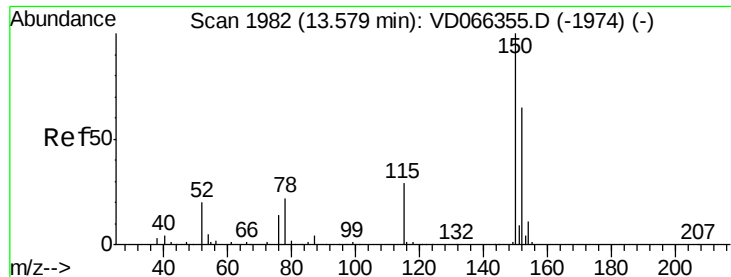
Ion Ratio Lower Upper

117 100

82 57.1 42.8 64.2

119 31.4 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066422.D

Acq: 26 Aug 2020 16:00

Instrument :

MSVOA\_D

ClientSampleId :

TP-7

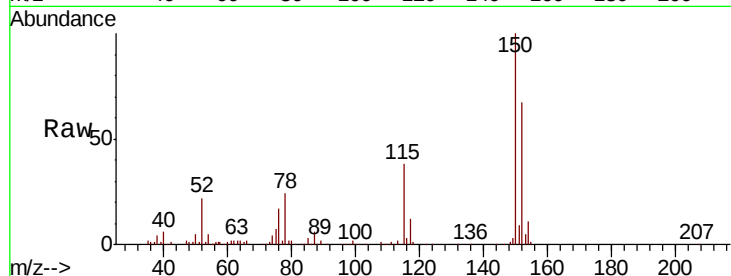
Tot Ion:152 Resp: 138129

Ion Ratio Lower Upper

152 100

115 58.3 28.3 85.0

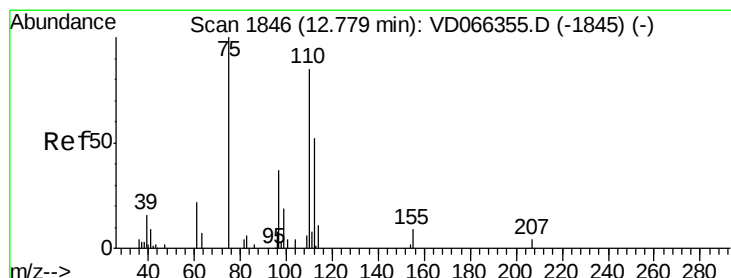
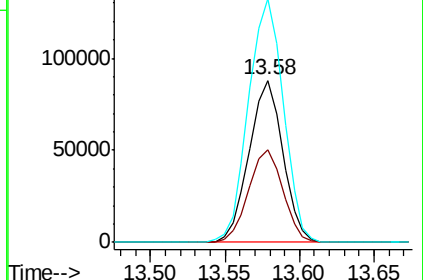
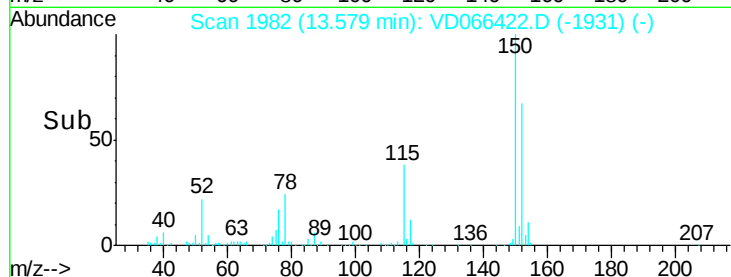
150 154.6 0.0 343.2



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: 72.472 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066422.D

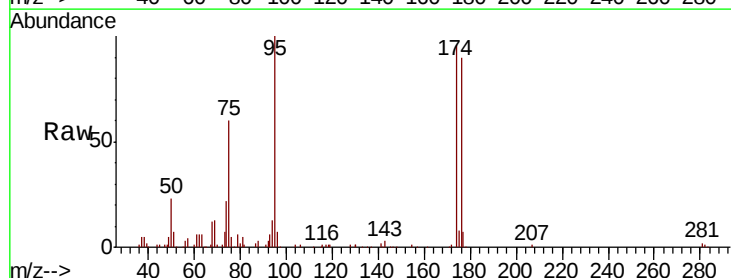
Acq: 26 Aug 2020 16:00

Tgt Ion: 75 Resp: 70424

Ion Ratio Lower Upper

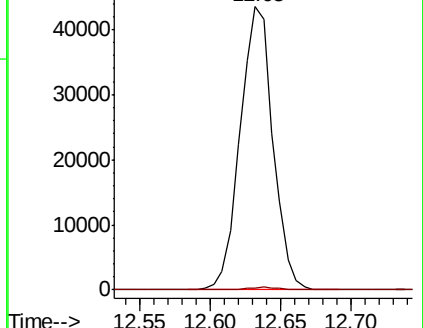
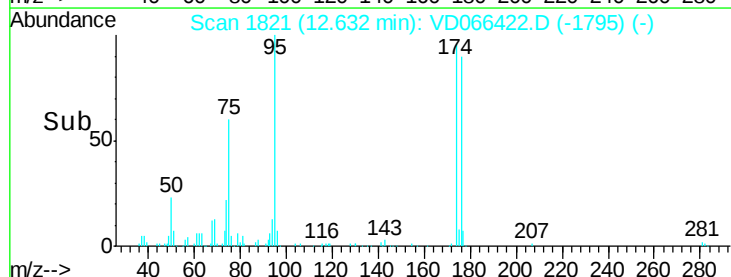
75 100

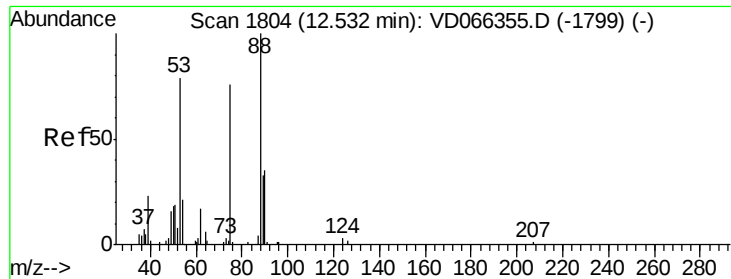
77 0.7 182.9 548.9#



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: 153.834 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066422.D

Acq: 26 Aug 2020 16:00

Instrument :

MSVOA\_D

ClientSampleId :

TP-7

Tot Ion: 75 Resp: 70424

Ion Ratio Lower Upper

75 100

53 0.0 87.4 131.2#

89 0.0 39.4 59.0#

