

Data File : VD067774.D  
Acq On : 24 Nov 2020 18:04  
Operator : VA/SY  
Sample : L4875-01RE  
Misc : 6.82G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-08-112320

Quant Time: Nov 25 02:06:11 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112320S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 24 00:51:35 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 233117   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 368751   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 411761   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 211286   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |                |     |            |         |      |      |
|---------------------------|----------------|-----|------------|---------|------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33           | 65  | 116770     | 51.52   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 50 - 163 |     | Recovery = | 103.04% |      |      |
| 35) Dibromofluoromethane  | 7.92           | 113 | 112735     | 48.04   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 54 - 147 |     | Recovery = | 96.08%  |      |      |
| 50) Toluene-d8            | 10.34          | 98  | 448346     | 52.26   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 49 - 140 |     | Recovery = | 104.52% |      |      |
| 62) 4-Bromofluorobenzene  | 12.64          | 95  | 185288     | 63.18   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 25 - 144 |     | Recovery = | 126.36% |      |      |

#### Target Compounds

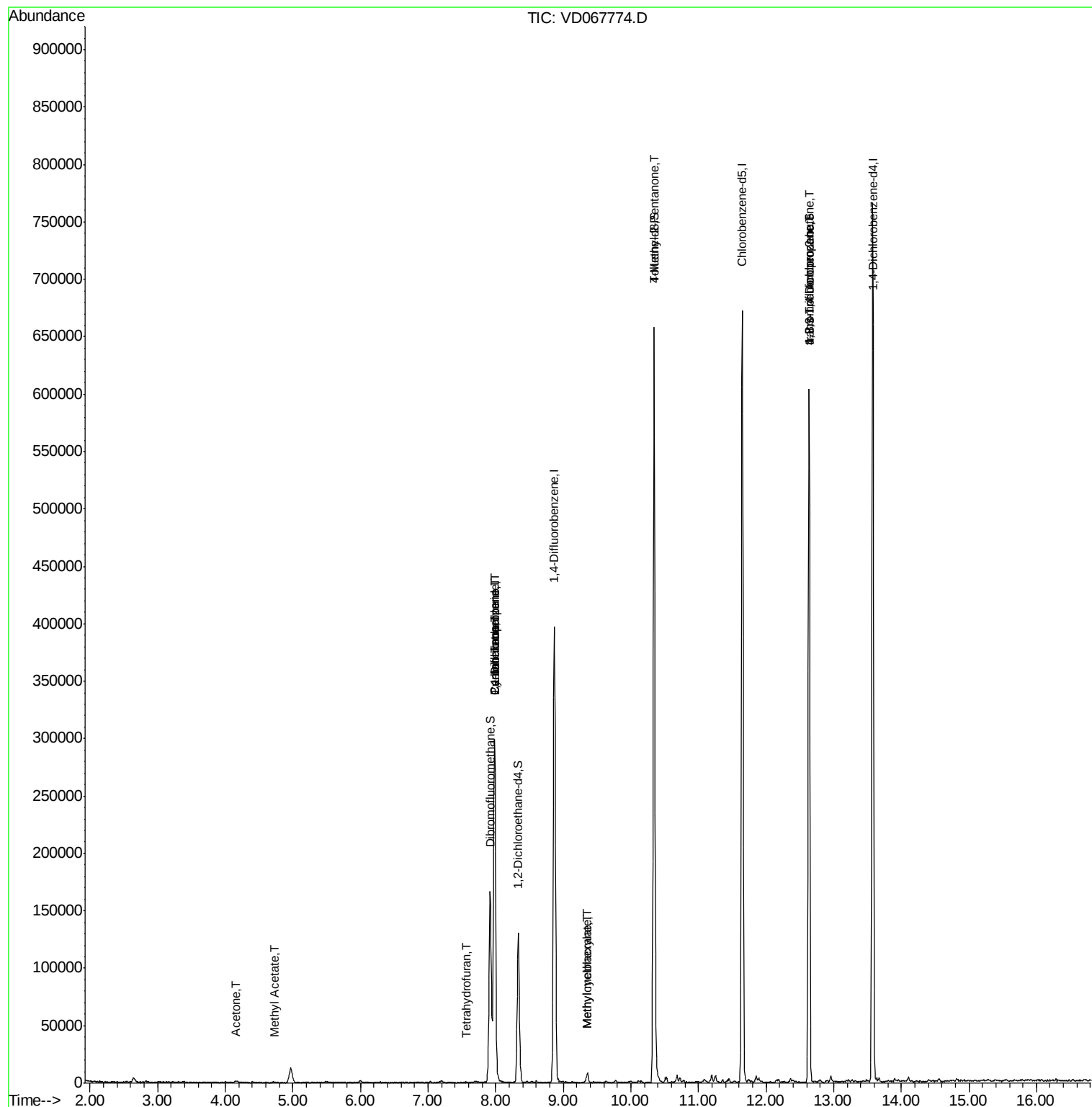
|                                |       |     |       |                | Qvalue |
|--------------------------------|-------|-----|-------|----------------|--------|
| 11) Tert butyl alcohol         | 5.20  | 59  | 403   | Below Cal #    | 87     |
| 16) Acetone                    | 4.16  | 43  | 2663  | 9.094 ug/l     | 94     |
| 18) Methyl Acetate             | 4.73  | 43  | 664   | 1.127 ug/l #   | 66     |
| 20) Methylene Chloride         | 4.96  | 84  | 11332 | Below Cal      | 95     |
| 29) Tetrahydrofuran            | 7.57  | 42  | 375   | 2.007 ug/l #   | 44     |
| 31) Cyclohexane                | 7.98  | 56  | 5266  | 1.920 ug/l #   | 55     |
| 36) 1,1-Dichloropropene        | 7.99  | 75  | 15462 | 4.886 ug/l #   | 43     |
| 38) Carbon Tetrachloride       | 7.98  | 117 | 24090 | 5.252 ug/l #   | 14     |
| 39) Methylcyclohexane          | 9.36  | 83  | 4080  | 1.090 ug/l #   | 84     |
| 48) Methyl methacrylate        | 9.35  | 41  | 1371  | 1.614 ug/l #   | 54     |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43  | 2084  | 2.606 ug/l #   | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75  | 96134 | 65.284 ug/l #  | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75  | 96134 | 152.693 ug/l # | 11     |

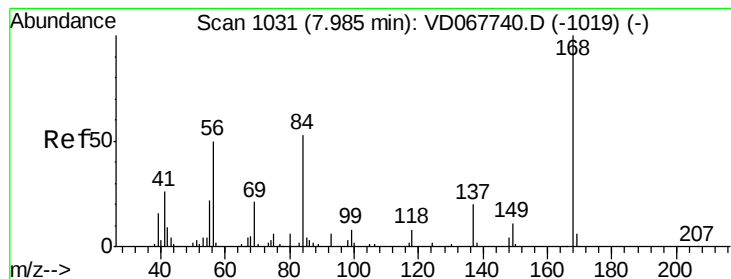
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 17 Sample Multiplier: 1

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD067774.D

Acq: 24 Nov 2020 18:04

Instrument :

MSVOA\_D

ClientSampleId :

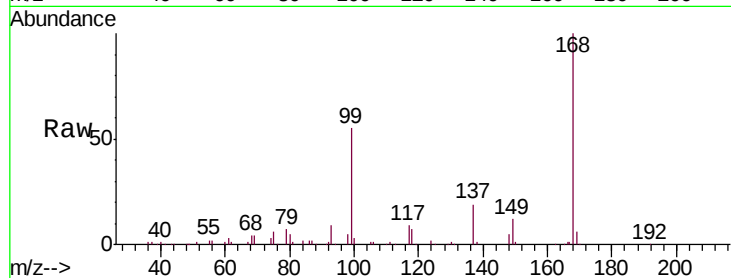
TR-08-112320

Tgt Ion:168 Resp: 233117

Ion Ratio Lower Upper

168 100

99 54.7 43.8 65.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

100000

80000

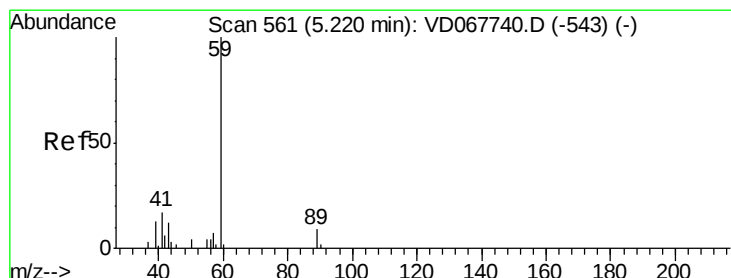
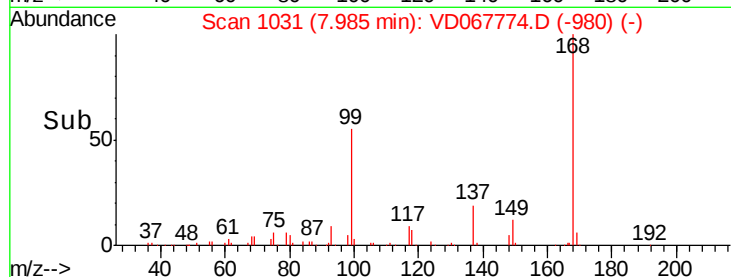
60000

40000

20000

0

Time--> 7.85 7.90 7.95 8.00 8.05



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD067774.D

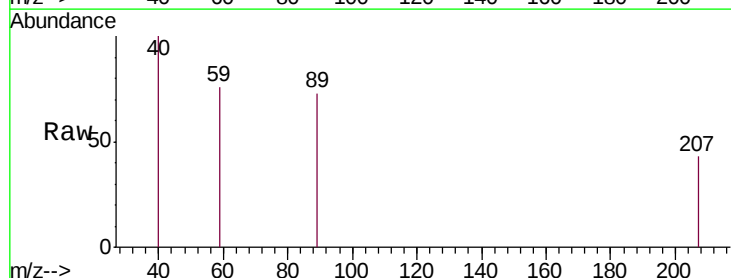
Acq: 24 Nov 2020 18:04

Tgt Ion: 59 Resp: 403

Ion Ratio Lower Upper

59 100

57 0.0 3.4 5.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.20

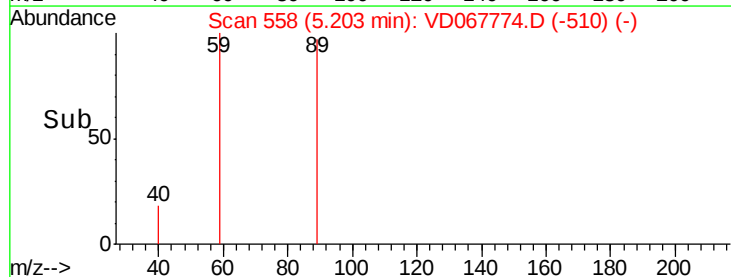
300

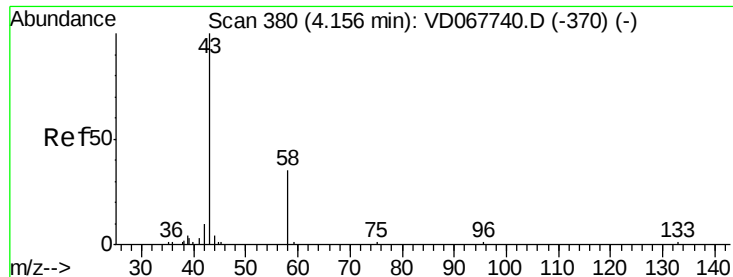
200

100

0

Time--> 5.16 5.18 5.20 5.22





#16

Acetone

Concen: 9.094 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067774.D

Acq: 24 Nov 2020 18:04

Instrument :

MSVOA\_D

ClientSampleId :

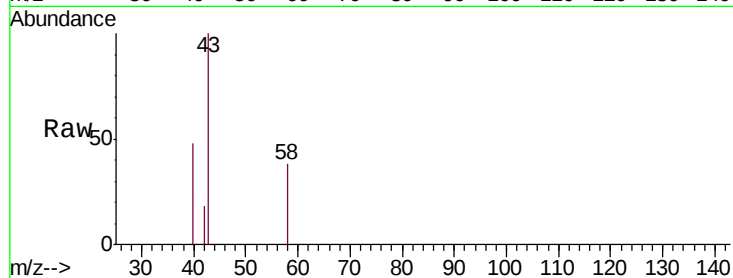
TR-08-112320

Tgt Ion: 43 Resp: 2663

Ion Ratio Lower Upper

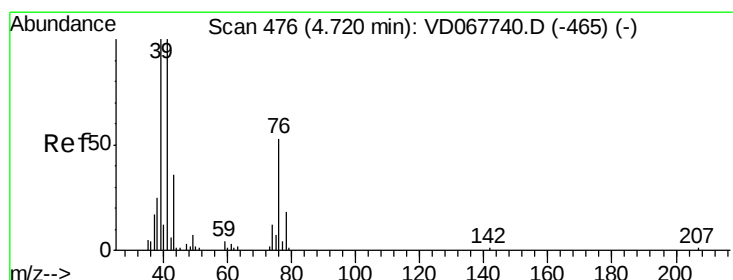
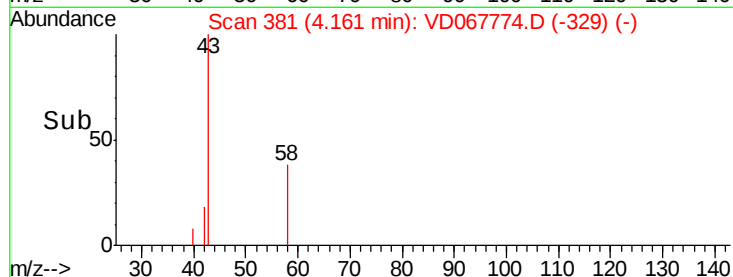
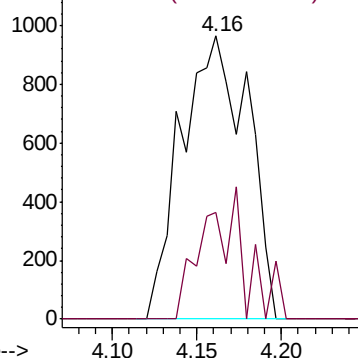
43 100

58 37.8 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 1.127 ug/l

RT: 4.73 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD067774.D

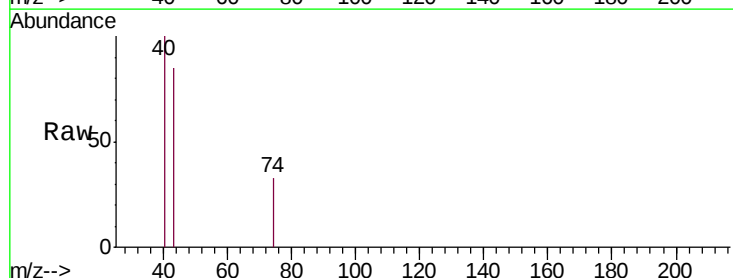
Acq: 24 Nov 2020 18:04

Tgt Ion: 43 Resp: 664

Ion Ratio Lower Upper

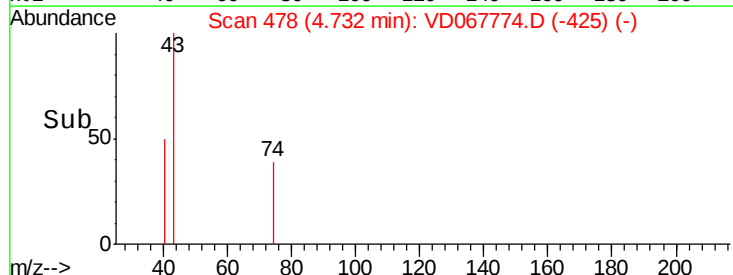
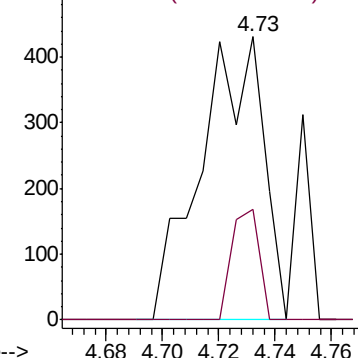
43 100

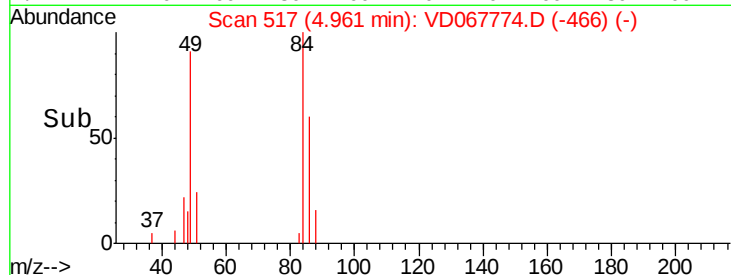
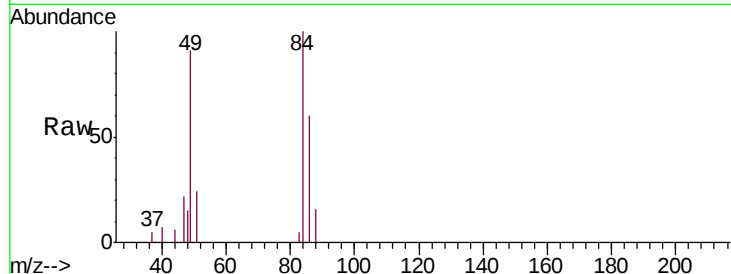
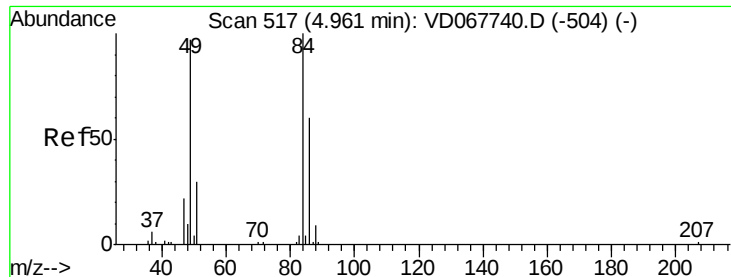
74 17.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

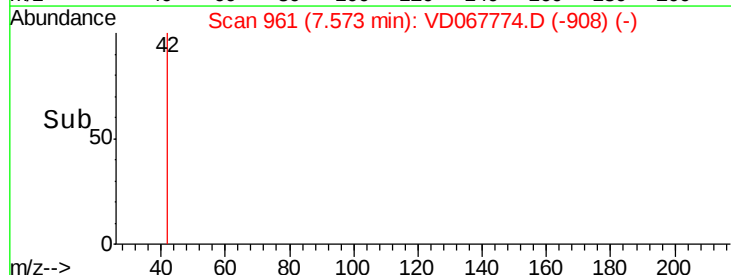
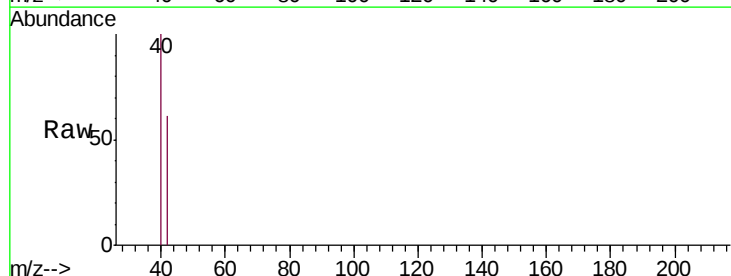
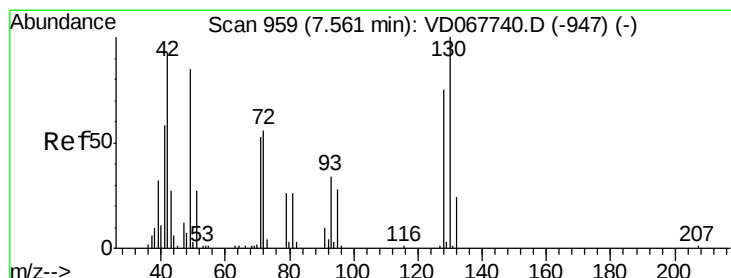
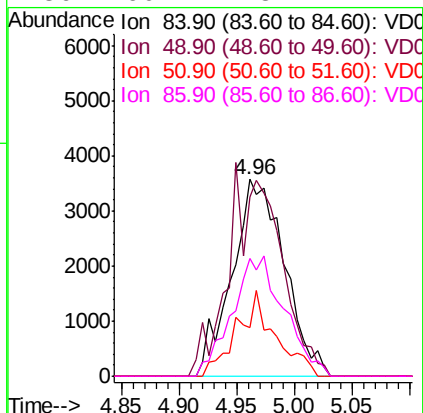




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: VD067774.D  
Acq: 24 Nov 2020 18:04

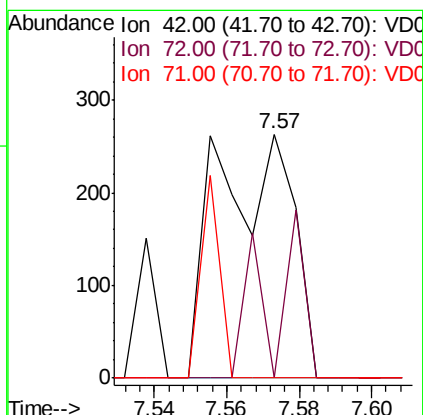
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-08-112320

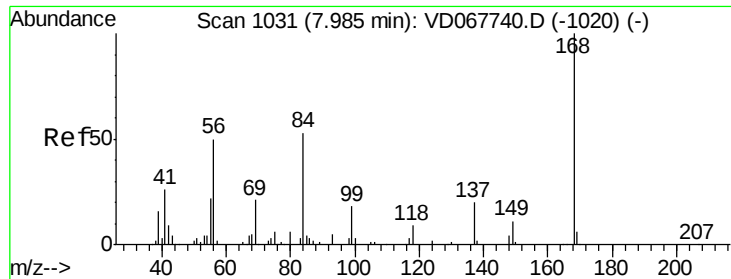
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 11332 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 91.0  | 77.4  | 116.2 |
| 51       | 24.5  | 24.1  | 36.1  |
| 86       | 60.1  | 48.2  | 72.2  |



#29  
Tetrahydrofuran  
Concen: 2.007 ug/l  
RT: 7.57 min Scan# 961  
Delta R.T. 0.01 min  
Lab File: VD067774.D  
Acq: 24 Nov 2020 18:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 375   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 14.7  | 49.3  | 73.9# |
| 71       | 20.5  | 45.9  | 68.9# |

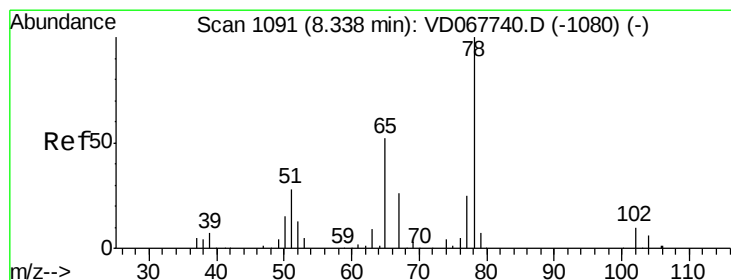
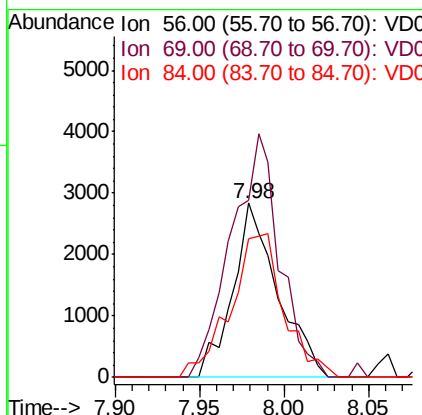
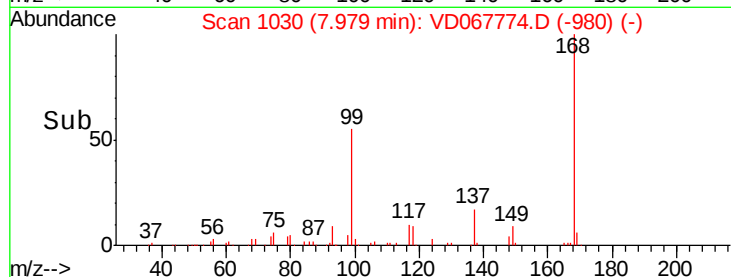
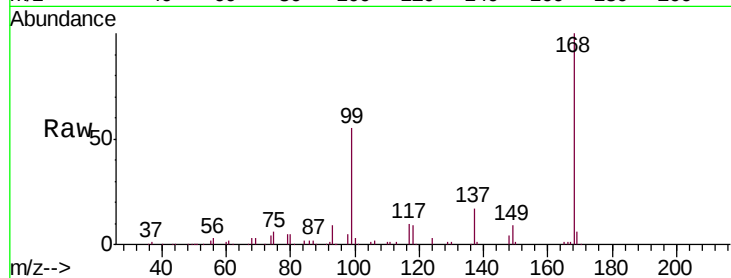




#31  
Cyclohexane  
Concen: 1.920 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD067774.D  
Acq: 24 Nov 2020 18:04

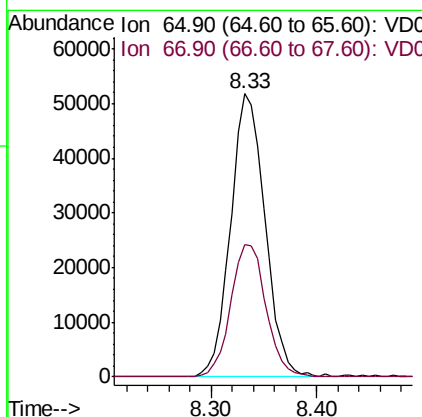
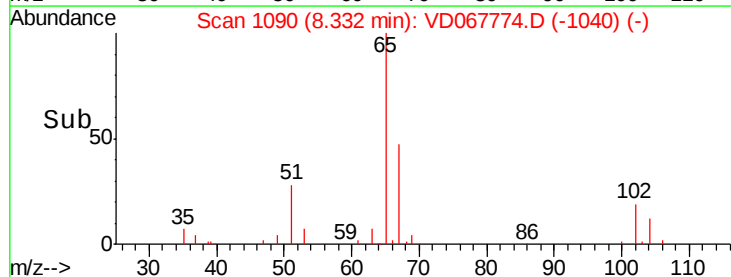
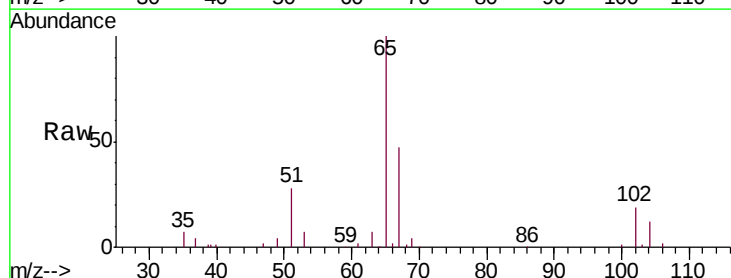
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-08-112320

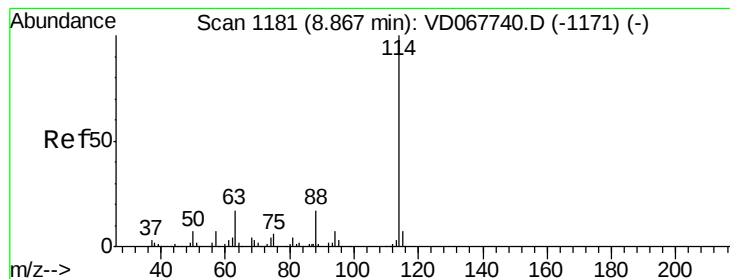
Tgt Ion: 56 Resp: 5266  
Ion Ratio Lower Upper  
56 100  
69 101.6 33.2 49.8#  
84 79.8 84.8 127.2#



#33  
1,2-Dichloroethane-d4  
Concen: 51.517 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. -0.01 min  
Lab File: VD067774.D  
Acq: 24 Nov 2020 18:04

Tgt Ion: 65 Resp: 116770  
Ion Ratio Lower Upper  
65 100  
67 47.6 0.0 101.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD067774.D

Acq: 24 Nov 2020 18:04

Instrument :

MSVOA\_D

ClientSampleId :

TR-08-112320

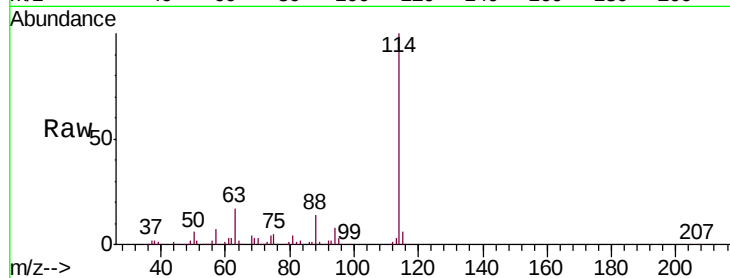
Tgt Ion:114 Resp: 368751

Ion Ratio Lower Upper

114 100

63 16.8 0.0 34.8

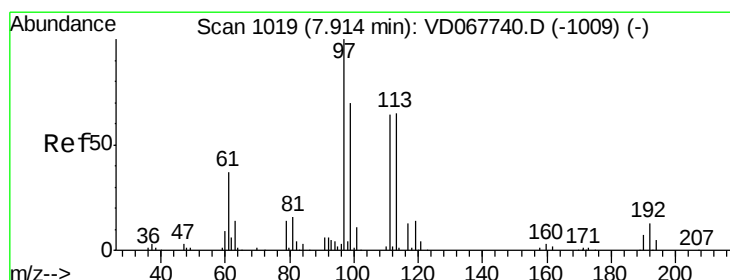
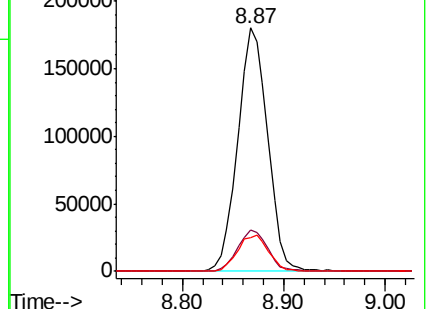
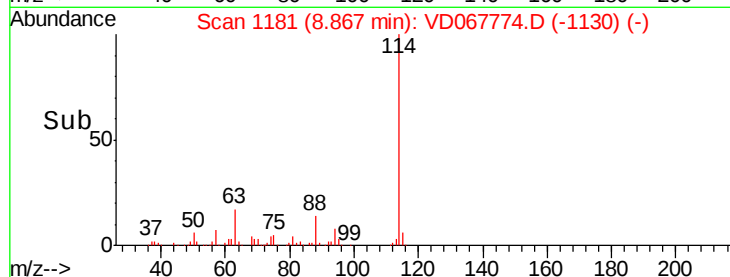
88 14.1 0.0 34.4



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: 48.039 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067774.D

Acq: 24 Nov 2020 18:04

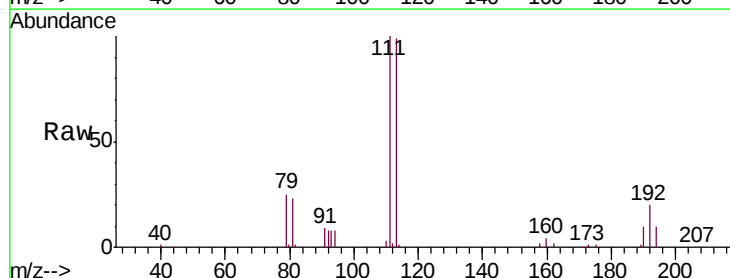
Tgt Ion:113 Resp: 112735

Ion Ratio Lower Upper

113 100

111 104.6 81.4 122.0

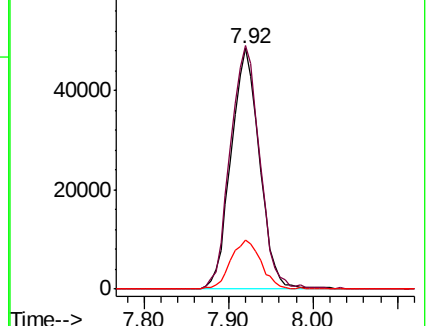
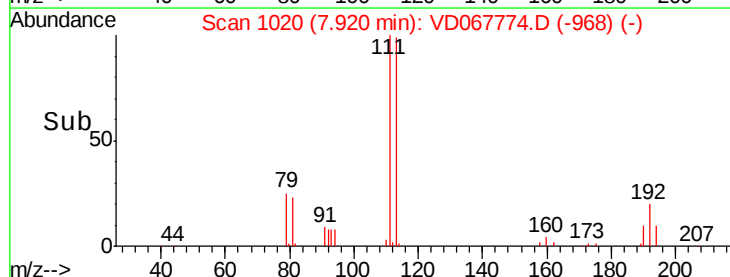
192 21.4 17.0 25.4

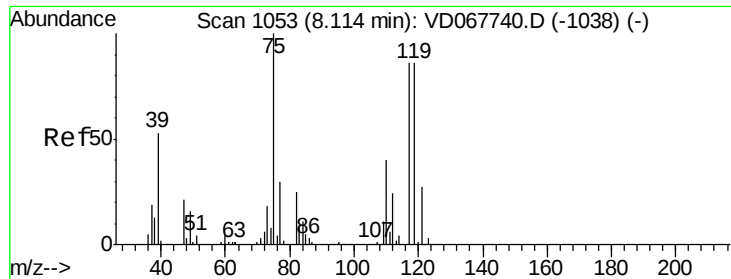


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

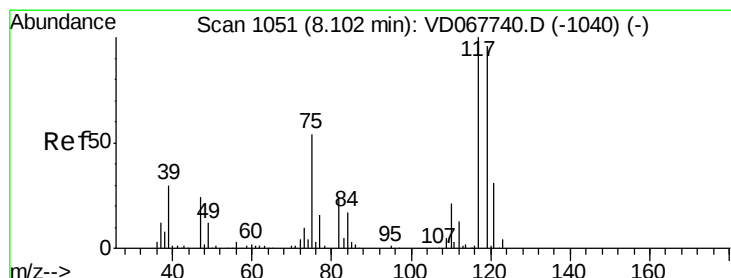
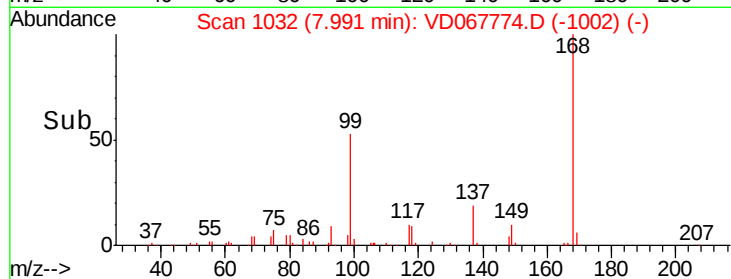
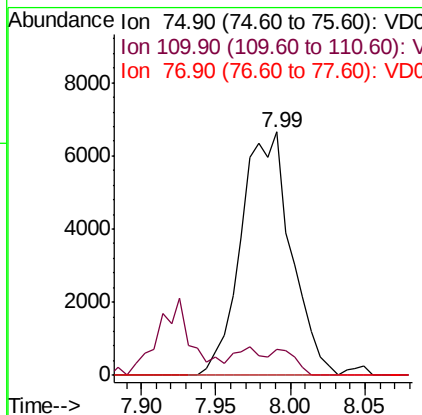
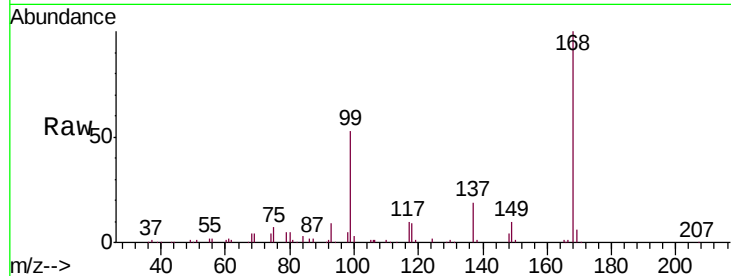




#36  
 1,1-Dichloropropene  
 Concen: 4.886 ug/l  
 RT: 7.99 min Scan# 1032  
 Delta R.T. -0.12 min  
 Lab File: VD067774.D  
 Acq: 24 Nov 2020 18:04

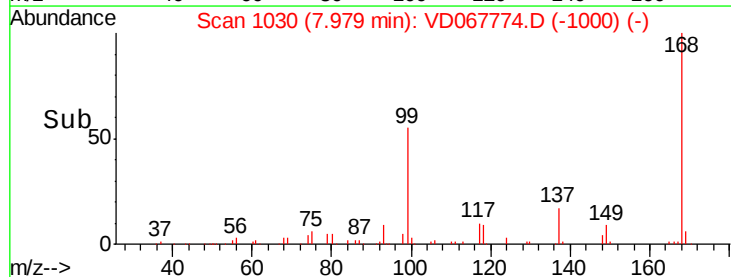
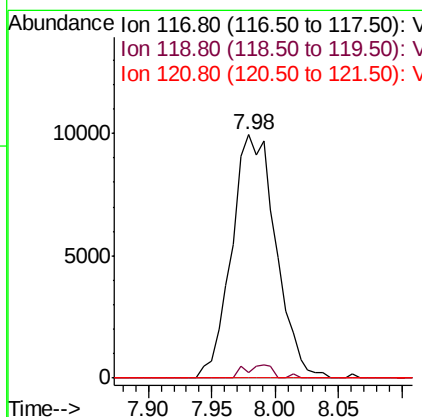
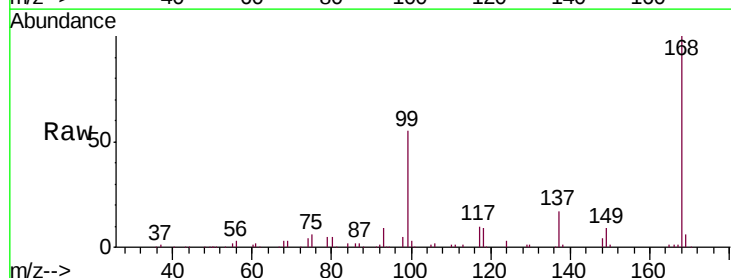
Instrument :  
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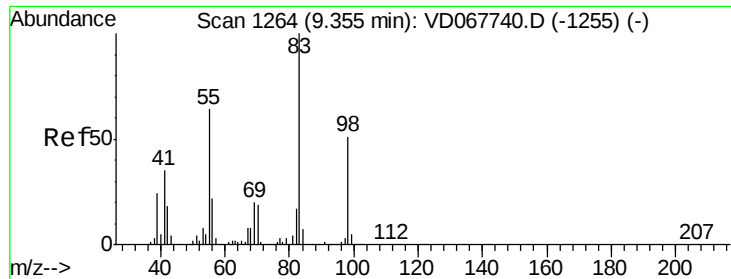
Tgt Ion: 75 Resp: 15462  
 Ion Ratio Lower Upper  
 75 100  
 110 4.8 20.1 60.2#  
 77 0.0 24.8 37.2#



#38  
 Carbon Tetrachloride  
 Concen: 5.252 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.12 min  
 Lab File: VD067774.D  
 Acq: 24 Nov 2020 18:04

Tgt Ion: 117 Resp: 24090  
 Ion Ratio Lower Upper  
 117 100  
 119 2.5 76.6 115.0#  
 121 0.0 24.5 36.7#

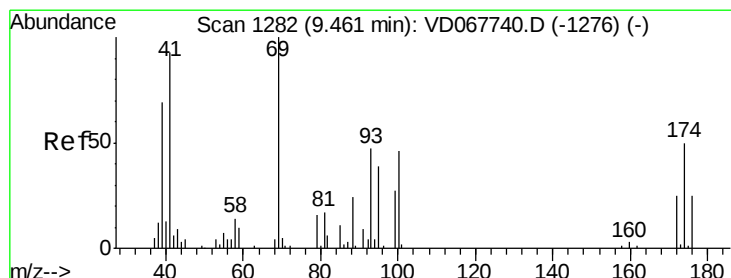
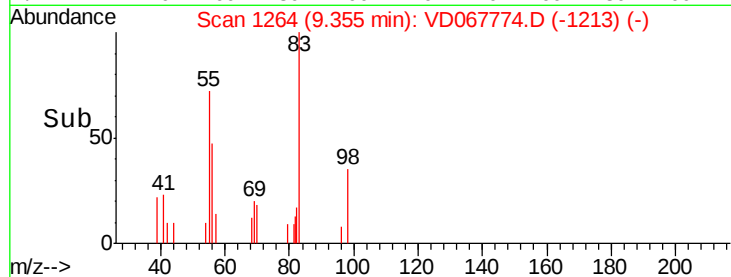
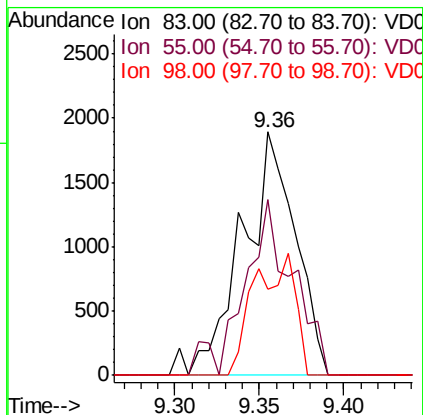
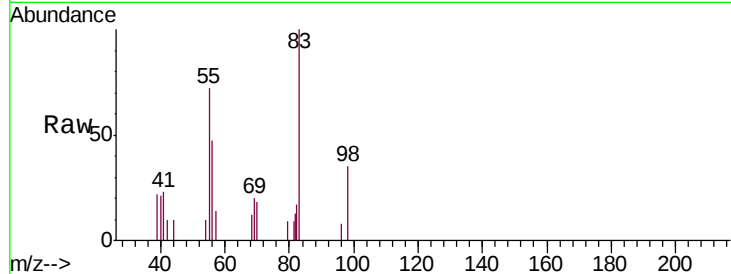




#39  
Methylcyclohexane  
Concen: 1.090 ug/l  
RT: 9.36 min Scan# 1264  
Delta R.T. -0.00 min  
Lab File: VD067774.D  
Acq: 24 Nov 2020 18:04

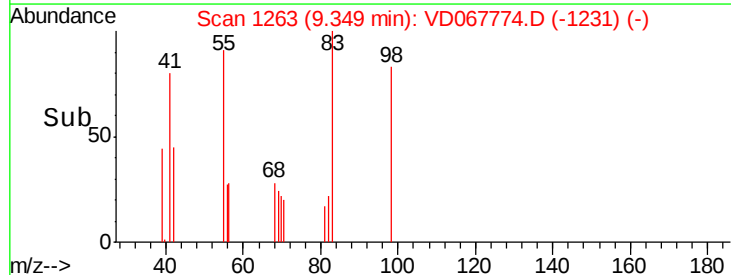
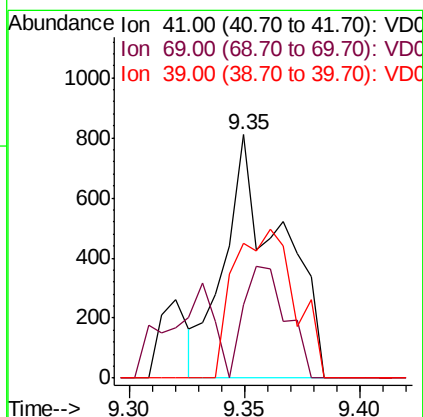
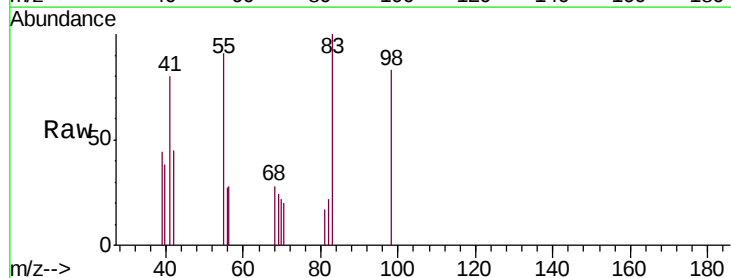
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-08-112320

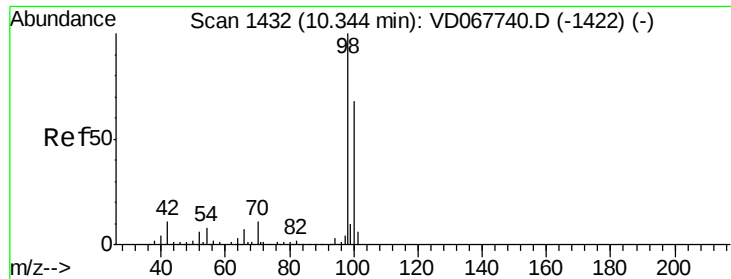
Tgt Ion: 83 Resp: 4080  
Ion Ratio Lower Upper  
83 100  
55 72.2 51.0 76.4  
98 35.2 40.4 60.6#



#48  
Methyl methacrylate  
Concen: 1.614 ug/l  
RT: 9.35 min Scan# 1263  
Delta R.T. -0.11 min  
Lab File: VD067774.D  
Acq: 24 Nov 2020 18:04

Tgt Ion: 41 Resp: 1371  
Ion Ratio Lower Upper  
41 100  
69 35.1 87.8 131.6#  
39 66.7 60.5 90.7

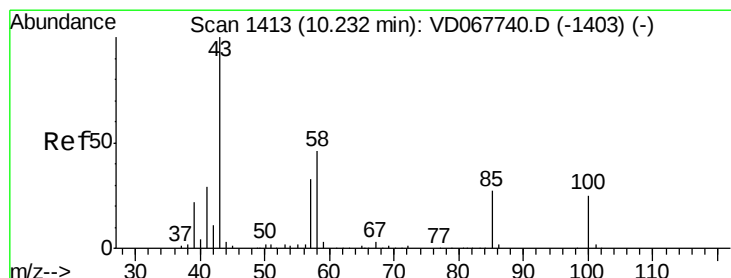
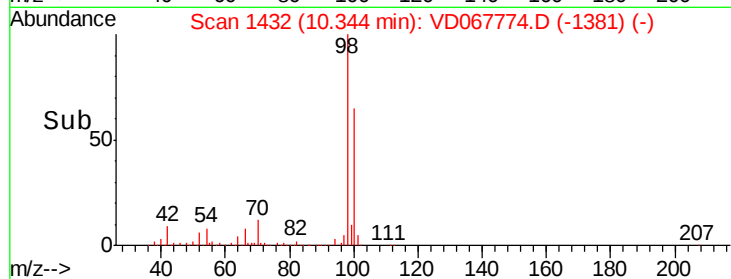
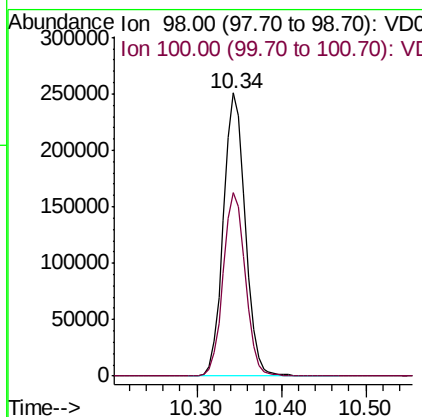
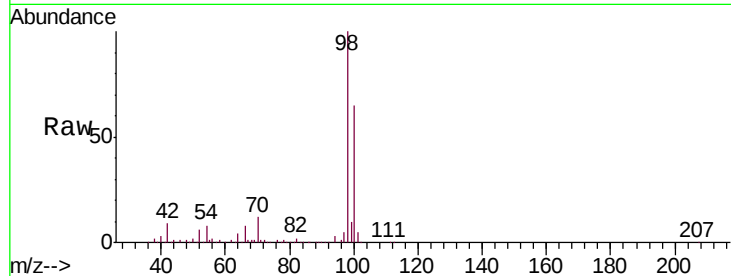




#50  
Toluene-d8  
Concen: 52.256 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD067774.D  
Acq: 24 Nov 2020 18:04

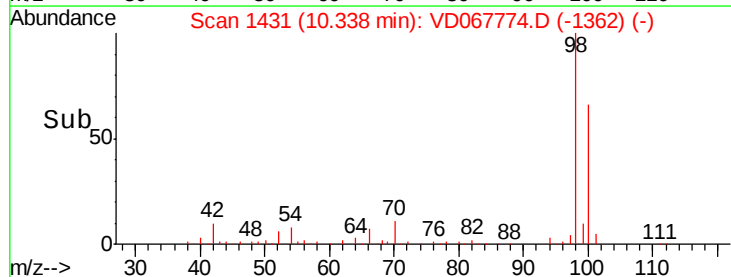
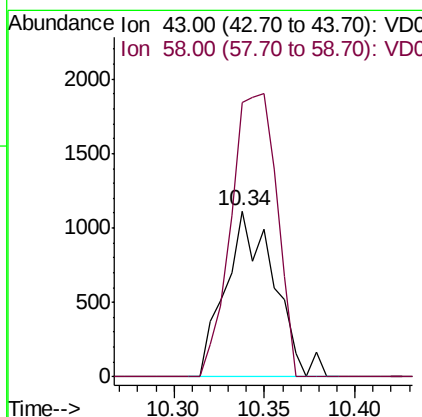
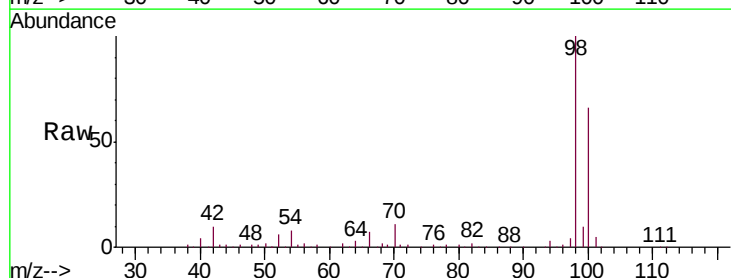
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-08-112320

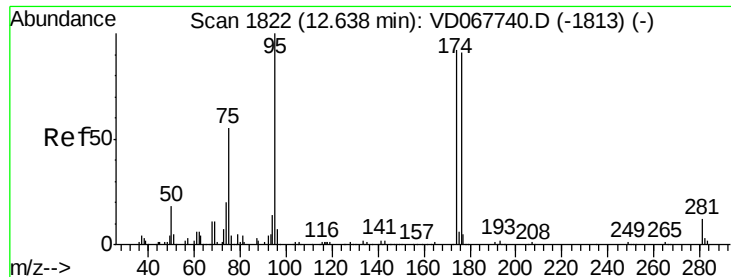
Tgt Ion: 98 Resp: 448346  
Ion Ratio Lower Upper  
98 100  
100 65.6 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 2.606 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.11 min  
Lab File: VD067774.D  
Acq: 24 Nov 2020 18:04

Tgt Ion: 43 Resp: 2084  
Ion Ratio Lower Upper  
43 100  
58 160.5 34.7 52.1#

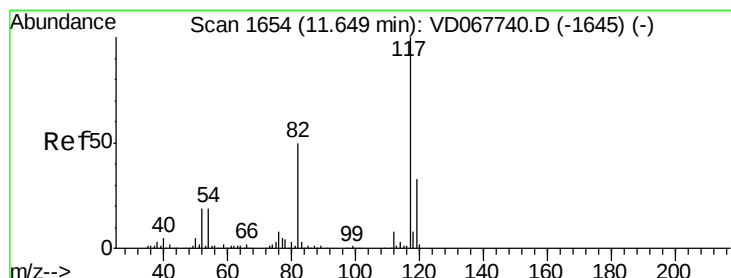
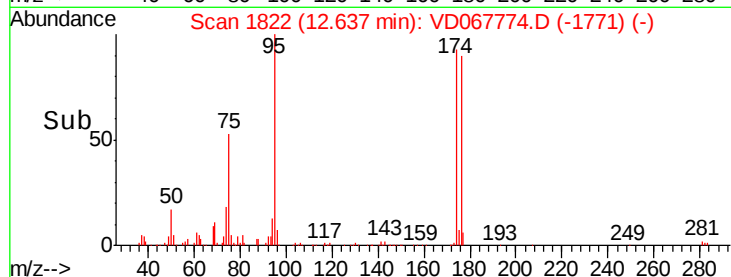
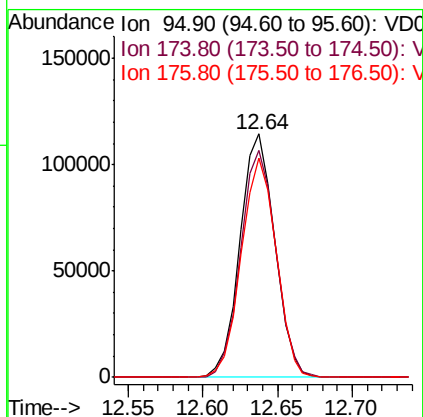
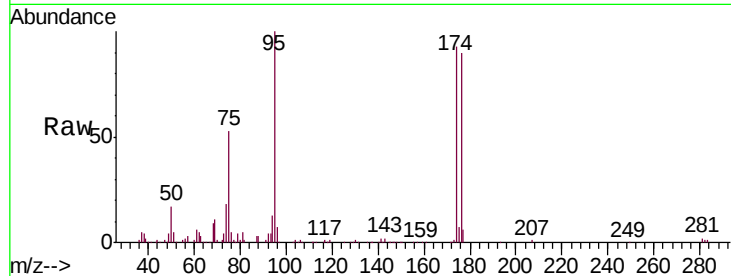




#62  
4-Bromofluorobenzene  
Concen: 63.182 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD067774.D  
Acq: 24 Nov 2020 18:04

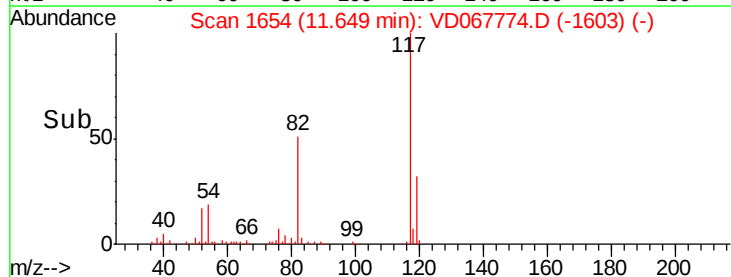
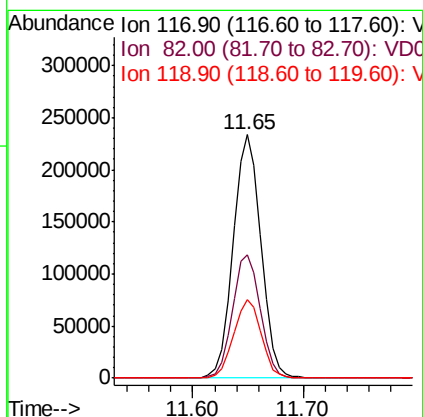
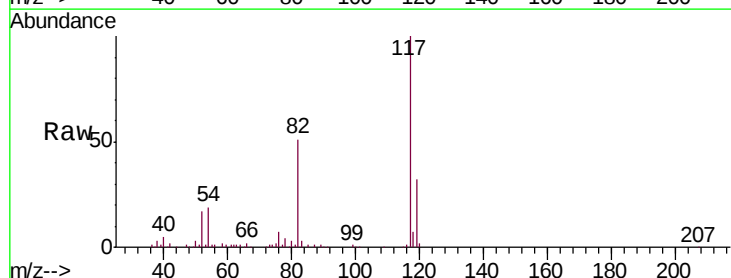
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR-08-112320

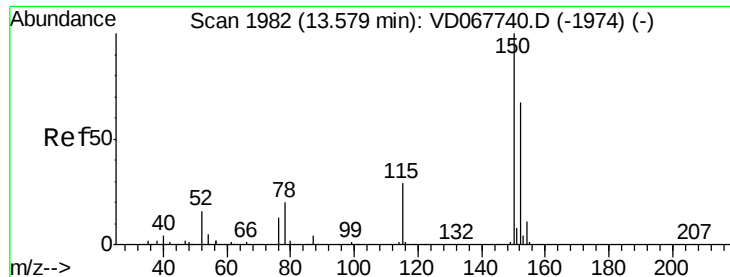
Tgt Ion: 95 Resp: 185288  
Ion Ratio Lower Upper  
95 100  
174 94.0 0.0 182.4  
176 90.1 0.0 178.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD067774.D  
Acq: 24 Nov 2020 18:04

Tgt Ion: 117 Resp: 411761  
Ion Ratio Lower Upper  
117 100  
82 50.5 40.2 60.4  
119 32.3 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD067774.D

Acq: 24 Nov 2020 18:04

Instrument :

MSVOA\_D

ClientSampleId :

TR-08-112320

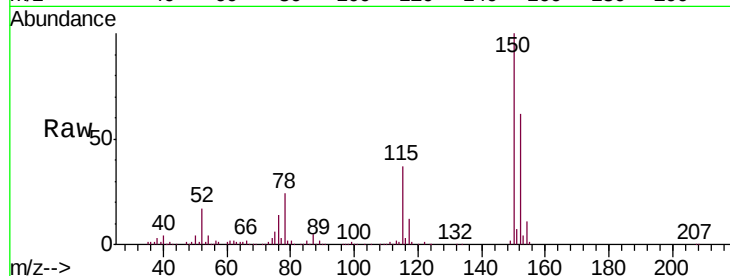
Tgt Ion:152 Resp: 211286

Ion Ratio Lower Upper

152 100

115 58.6 29.4 88.3

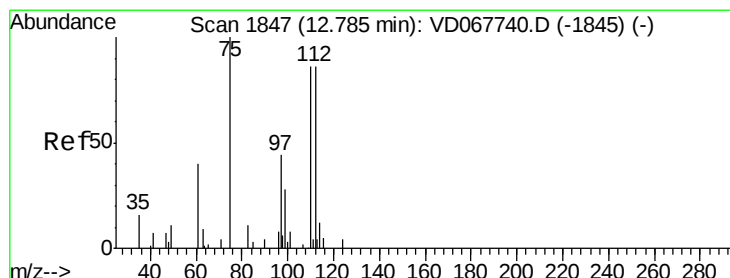
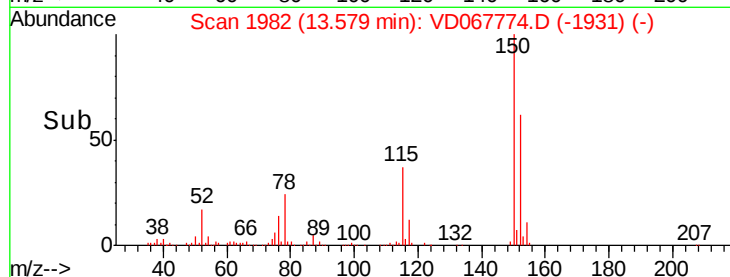
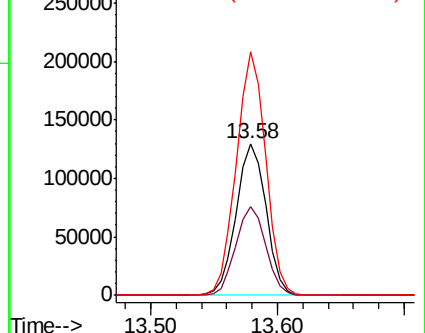
150 157.4 0.0 340.6



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: 65.284 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067774.D

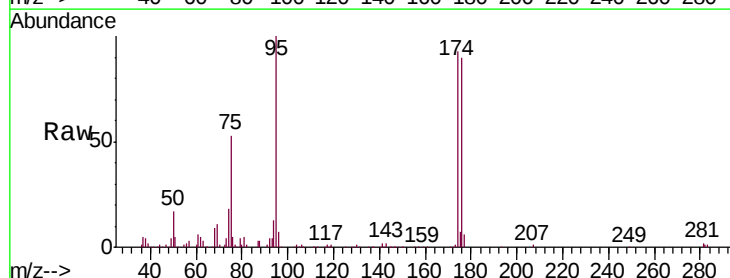
Acq: 24 Nov 2020 18:04

Tgt Ion: 75 Resp: 96134

Ion Ratio Lower Upper

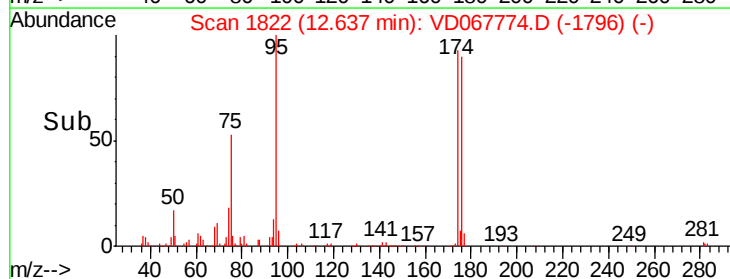
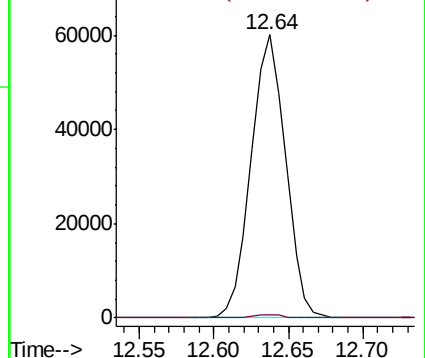
75 100

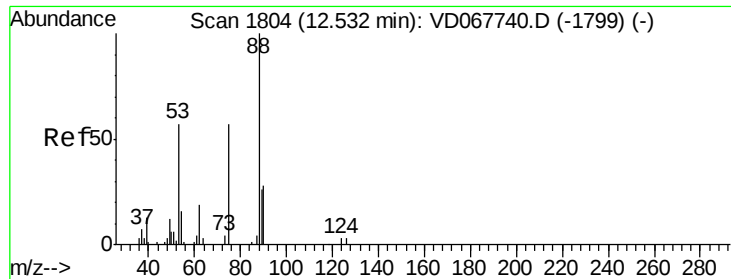
77 1.0 0.0 0.0#



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: 152.693 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067774.D

Acq: 24 Nov 2020 18:04

Instrument :

MSVOA\_D

ClientSampleId :

TR-08-112320

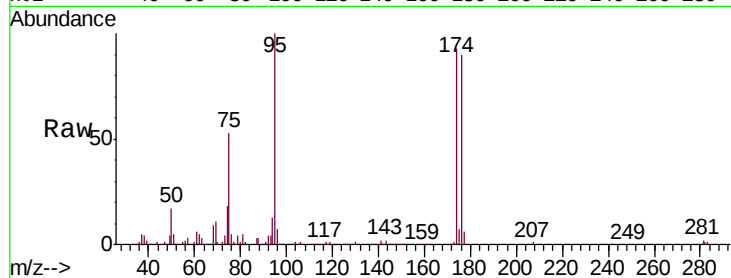
Tgt Ion: 75 Resp: 96134

Ion Ratio Lower Upper

75 100

53 0.0 76.0 114.0#

89 0.1 40.2 60.4#



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

