

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102020\  
 Data File : VD067330.D  
 Acq On : 20 Oct 2020 18:02  
 Operator : VA/SY  
 Sample : L4436-10  
 Misc : 11.76G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 37A

Quant Time: Oct 21 01:51:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 19:13:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 296616   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 505774   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 498706   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 237523   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 170374   | 57.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.66% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 170191   | 50.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.12% |          |
| 50) Toluene-d8              | 10.34 | 98   | 605634   | 49.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.44%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 209533   | 49.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.94%  |          |

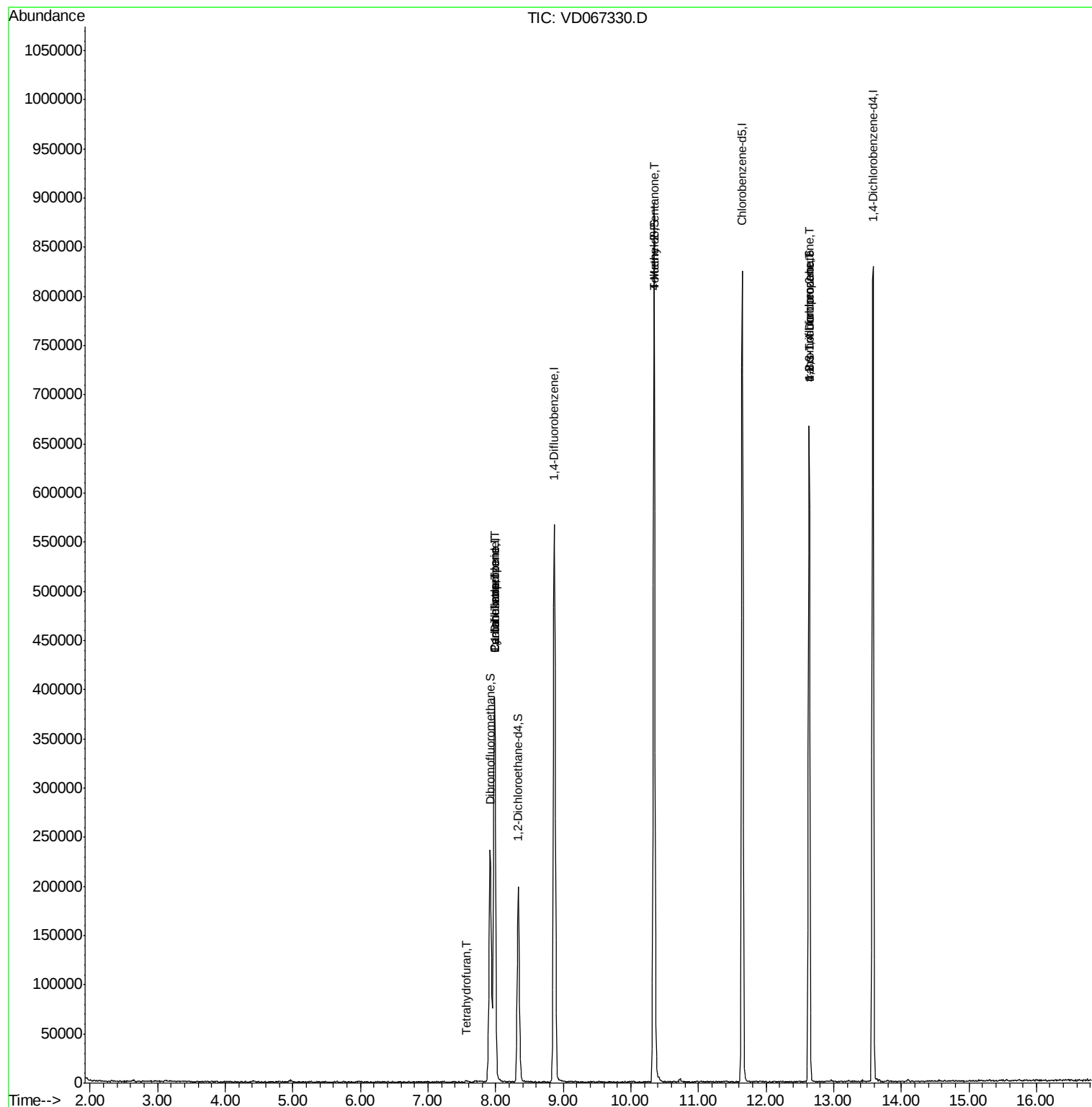
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 116      | Below Cal | #      | 44     |
| 5) Bromomethane                | 2.77  | 94   | 122      | Below Cal | #      | 14     |
| 20) Methylene Chloride         | 4.96  | 84   | 1259     | Below Cal | #      | 54     |
| 29) Tetrahydrofuran            | 7.57  | 42   | 1202     | 4.558     | ug/l # | 68     |
| 31) Cyclohexane                | 7.98  | 56   | 5687     | 1.662     | ug/l # | 45     |
| 36) 1,1-Dichloropropene        | 7.99  | 75   | 21801    | 5.086     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 30127    | 5.499     | ug/l # | 18     |
| 51) 4-Methyl-2-Pentanone       | 10.35 | 43   | 2412     | 1.932     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 106522   | 64.705    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 106522   | 146.733   | ug/l # | 10     |

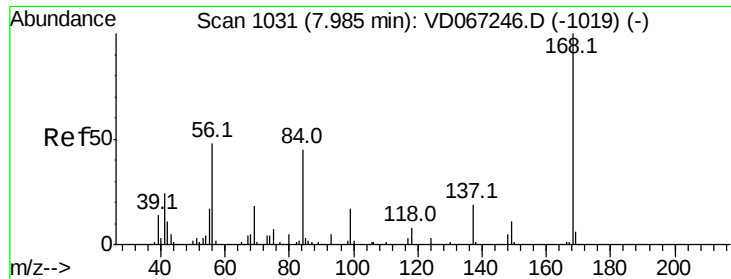
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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37A

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QLast Update : Mon Oct 19 19:13:29 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

Instrument :

MSVOA\_D

ClientSampleId :

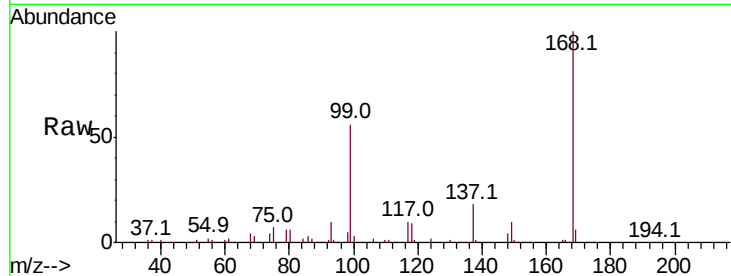
37A

Tot Ion:168 Resp: 296616

Ion Ratio Lower Upper

168 100

99 56.3 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

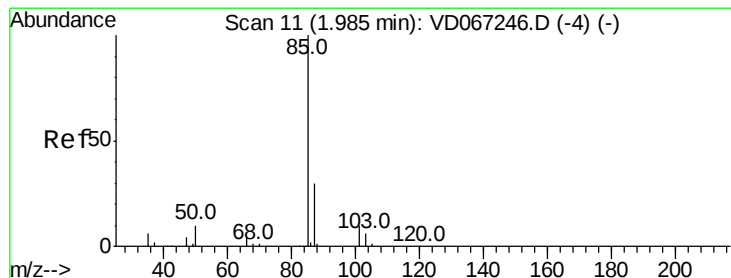
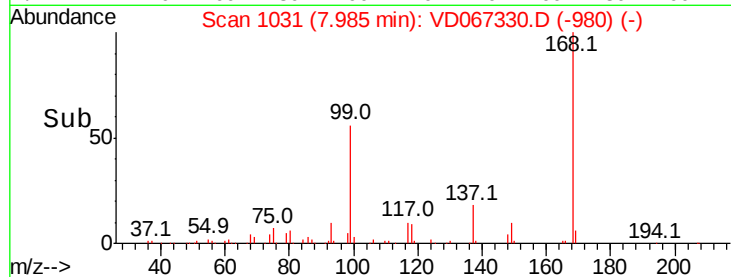
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067330.D

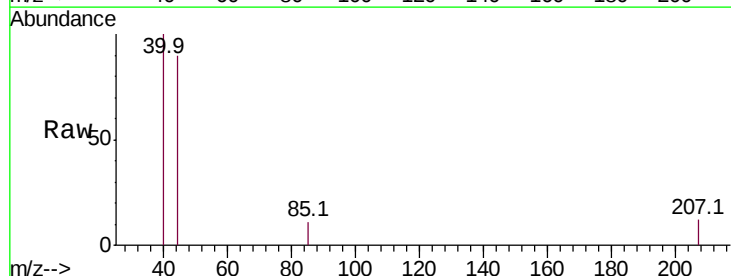
Acq: 20 Oct 2020 18:02

Tgt Ion: 85 Resp: 116

Ion Ratio Lower Upper

85 100

87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

150

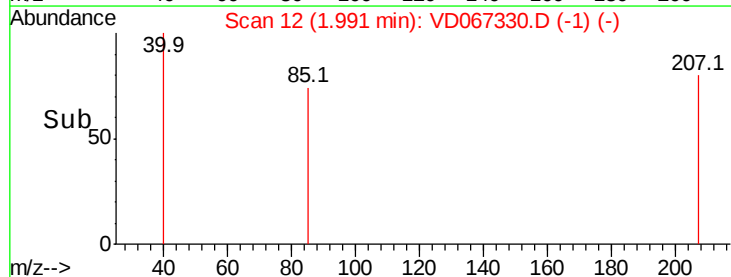
100

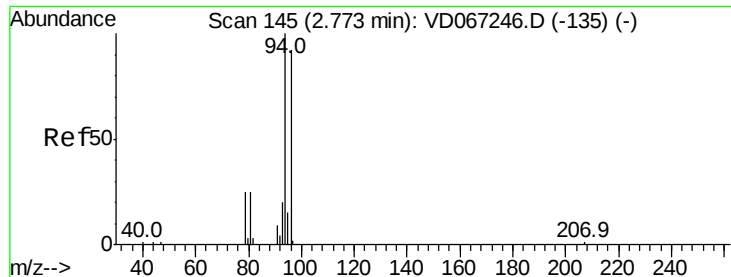
50

0

Time-->

1.96 1.98 2.00





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

Instrument :

MSVOA\_D

ClientSampleId :

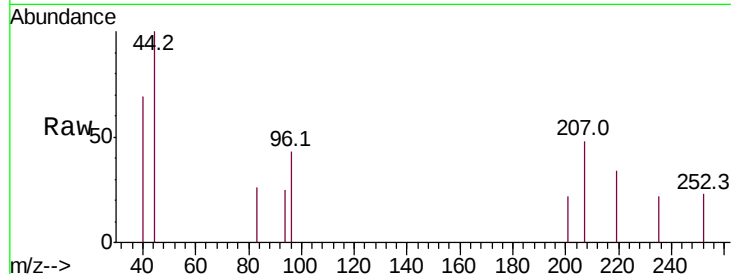
37A

Tot Ion: 94 Resp: 122

Ion Ratio Lower Upper

94 100

96 173.9 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

300

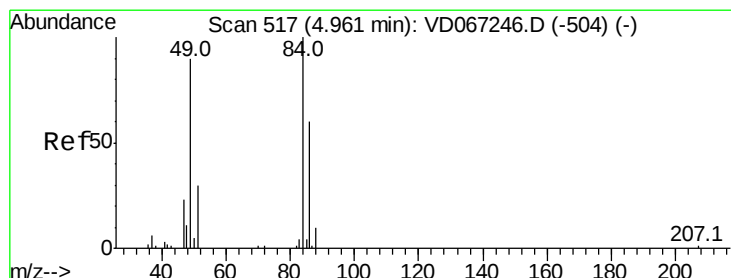
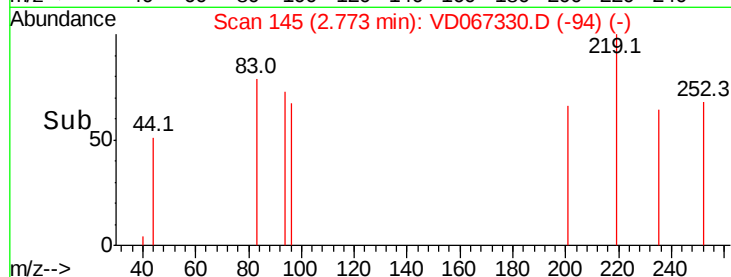
200

100

0

2.76 2.77 2.78 2.80

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

Tgt Ion: 84 Resp: 1259

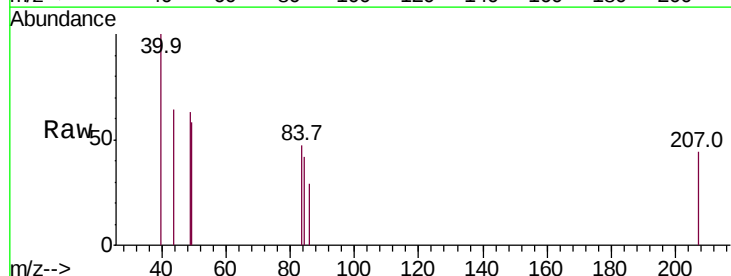
Ion Ratio Lower Upper

84 100

49 135.9 72.2 108.2#

51 0.0 23.8 35.8#

86 32.2 48.2 72.4#



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

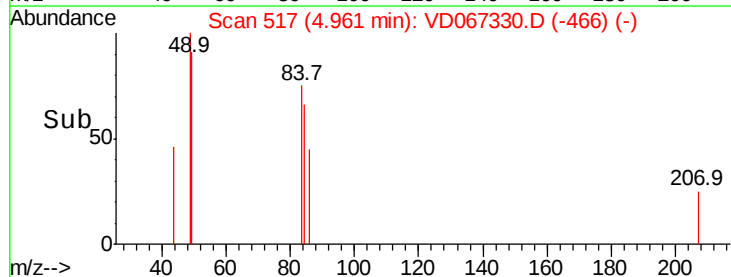
1000

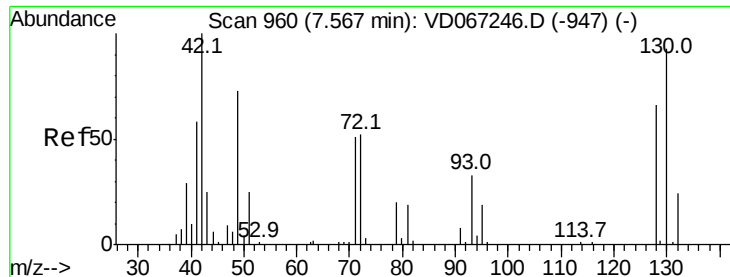
500

0

4.90 4.95 5.00

Time-->





#29

Tetrahydrofuran

Concen: 4.558 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.00 min

Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

Instrument :

MSVOA\_D

ClientSampled :

37A

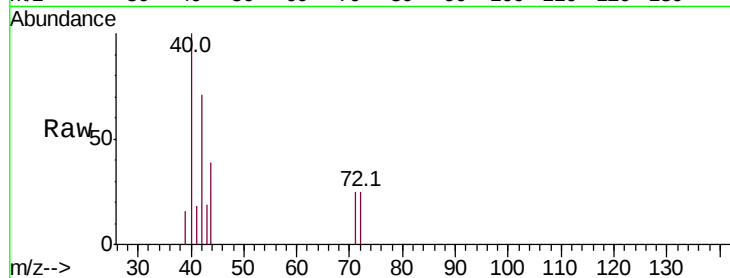
Tot Ion: 42 Resp: 1202

Ion Ratio Lower Upper

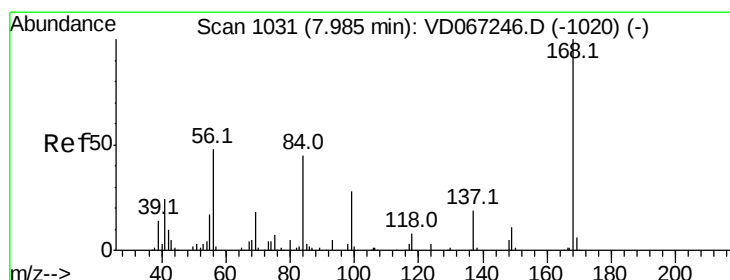
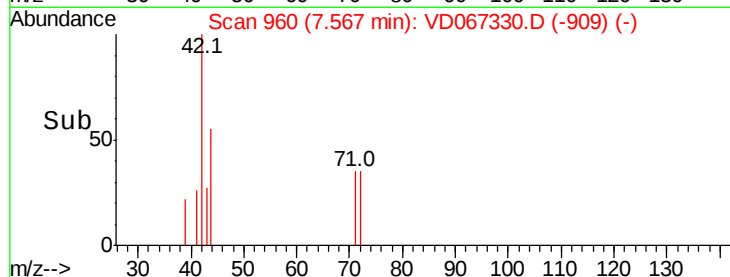
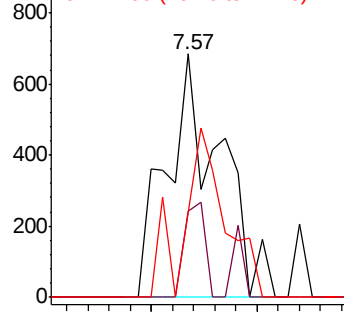
42 100

72 15.0 43.2 64.8#

71 54.7 39.4 59.0



Abundance Ion 42.00 (41.70 to 42.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC  
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.662 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

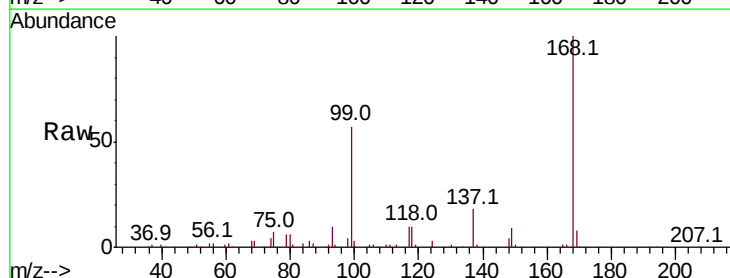
Tgt Ion: 56 Resp: 5687

Ion Ratio Lower Upper

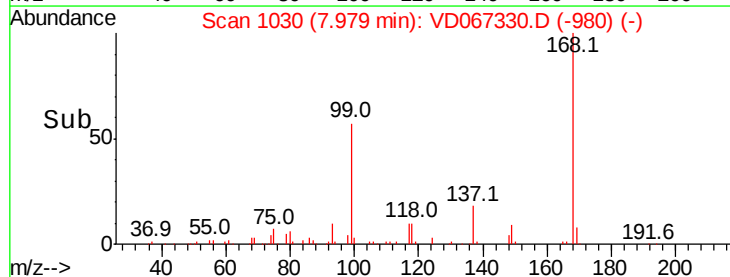
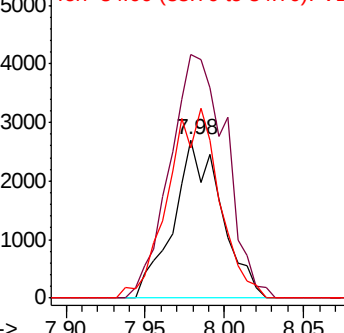
56 100

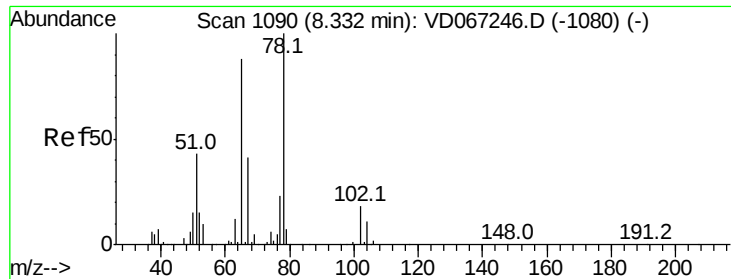
69 154.2 29.8 44.6#

84 95.2 76.6 114.8



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: 57.333 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

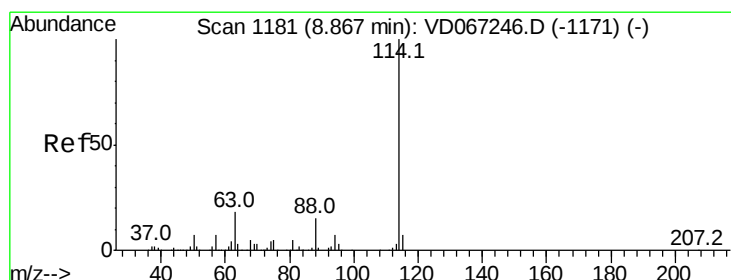
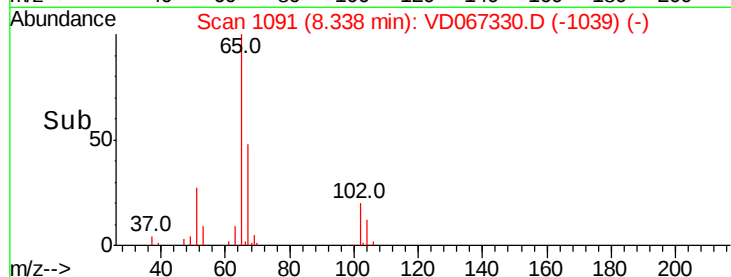
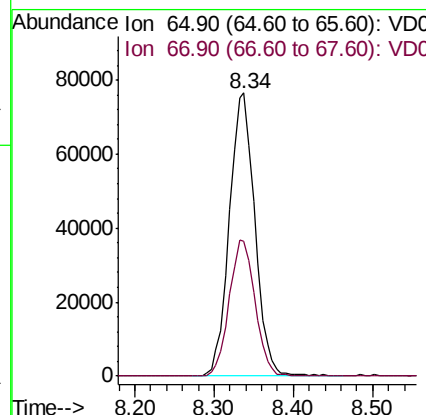
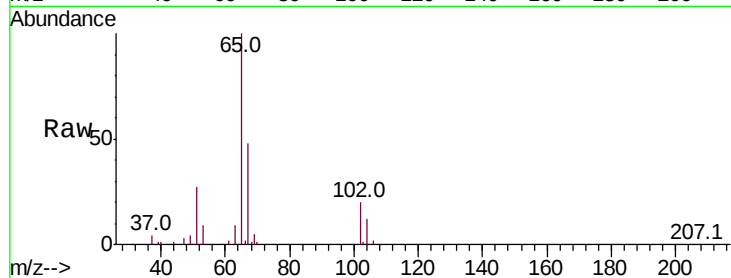
Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
37A

Tot Ion: 65 Resp: 170374

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 48.7  | 0.0   | 103.8 |



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

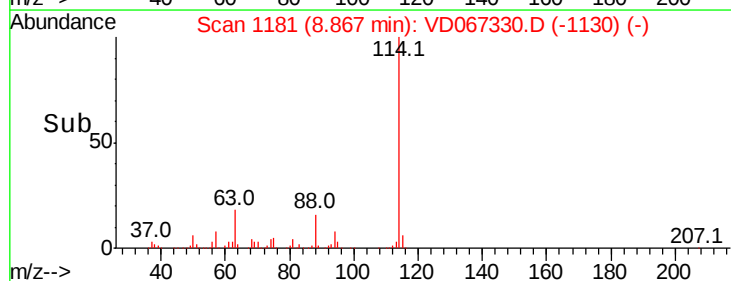
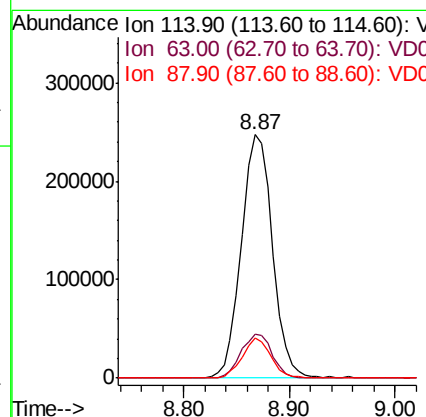
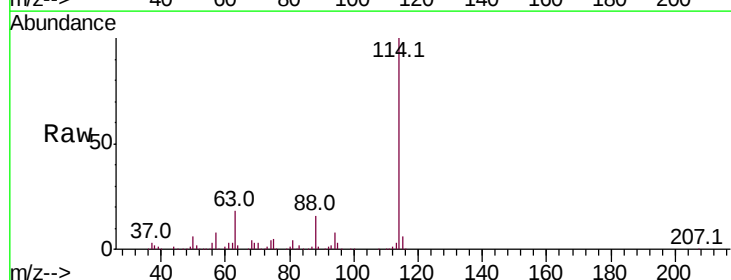
Delta R.T. 0.00 min

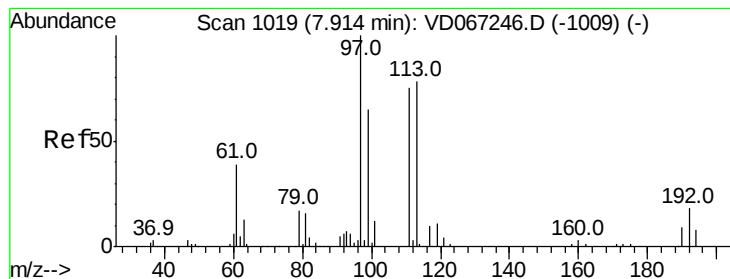
Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

Tgt Ion: 114 Resp: 505774

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 18.2  | 0.0   | 35.0  |
| 88  | 16.3  | 0.0   | 30.6  |





#35

Dibromofluoromethane

Concen: 50.563 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

Instrument :

MSVOA\_D

ClientSampleId :

37A

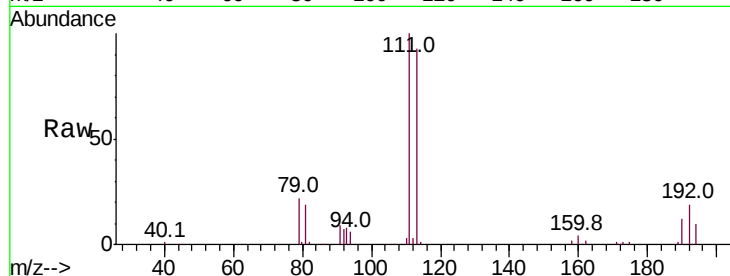
Tot Ion:113 Resp: 170191

Ion Ratio Lower Upper

113 100

111 104.7 81.6 122.4

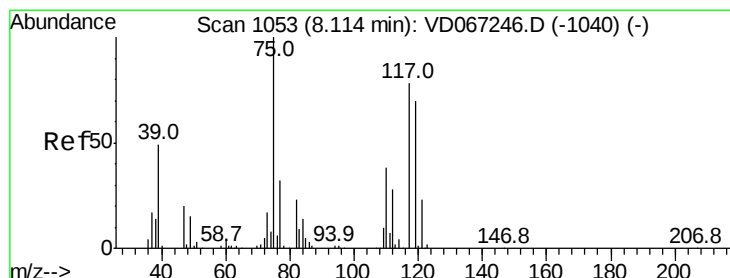
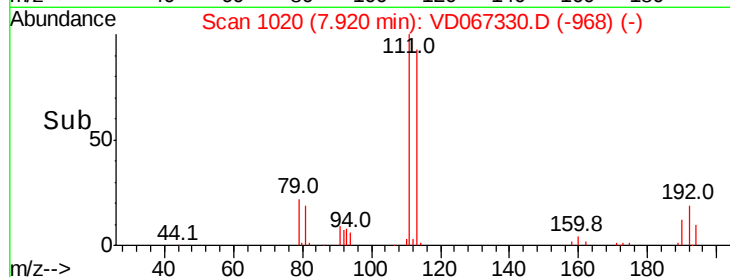
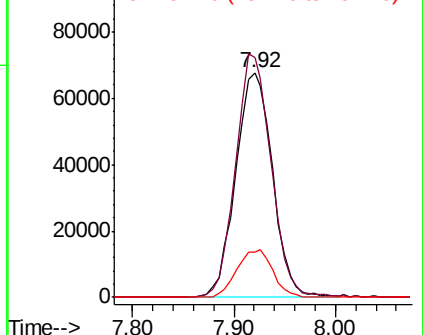
192 20.6 17.0 25.4



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: 5.086 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.12 min

Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

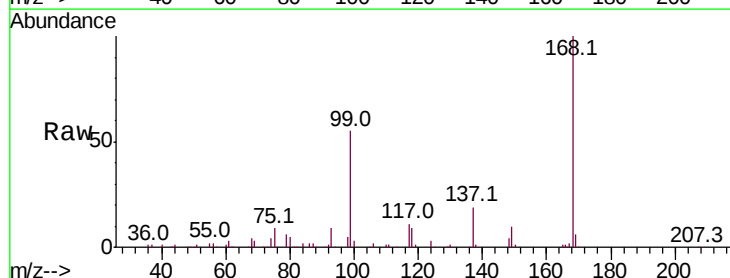
Tgt Ion: 75 Resp: 21801

Ion Ratio Lower Upper

75 100

110 11.1 19.6 58.7#

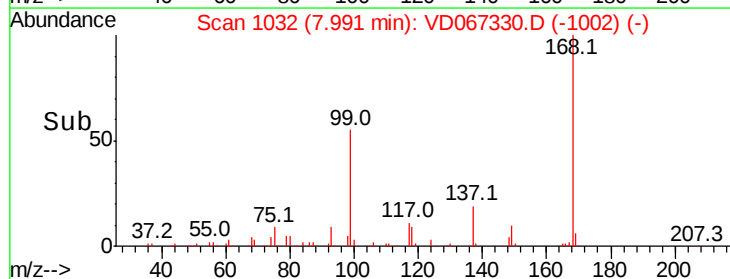
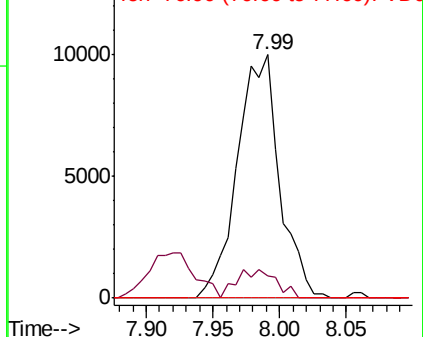
77 0.0 24.6 37.0#

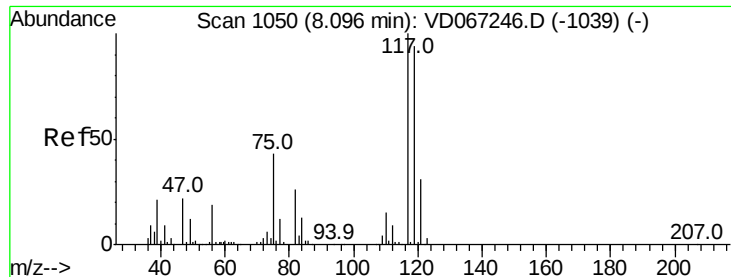


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.499 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

Instrument :

MSVOA\_D

ClientSampleId :

37A

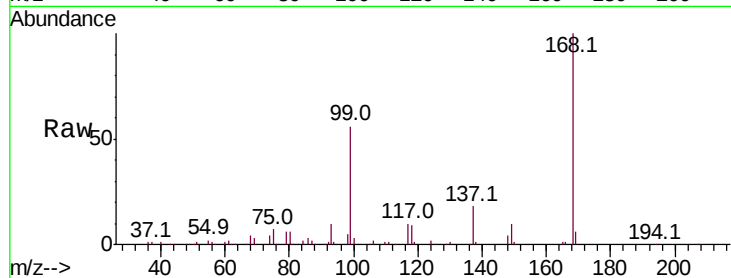
Tot Ion:117 Resp: 30127

Ion Ratio Lower Upper

117 100

119 6.0 75.0 112.4#

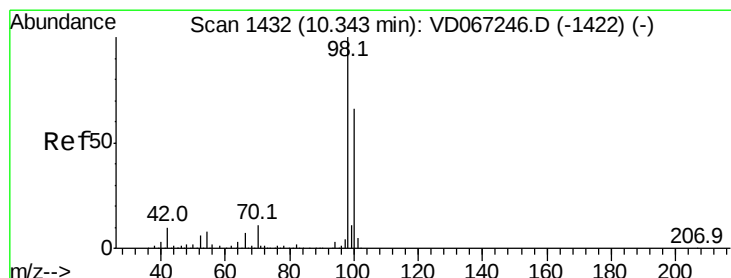
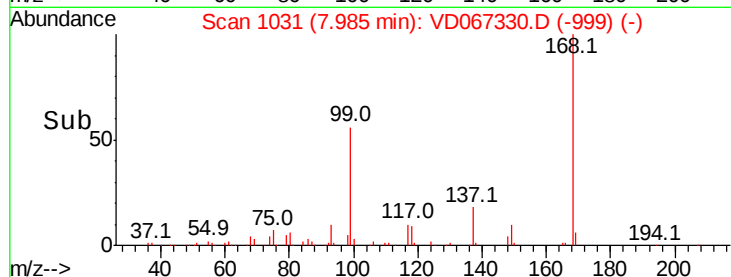
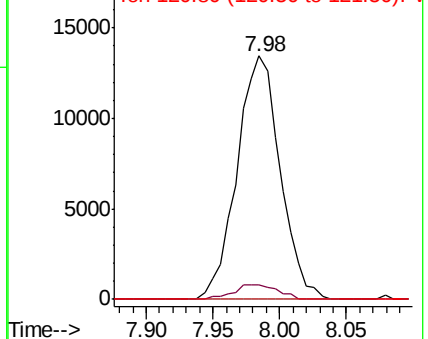
121 0.0 24.9 37.3#



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: 49.719 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067330.D

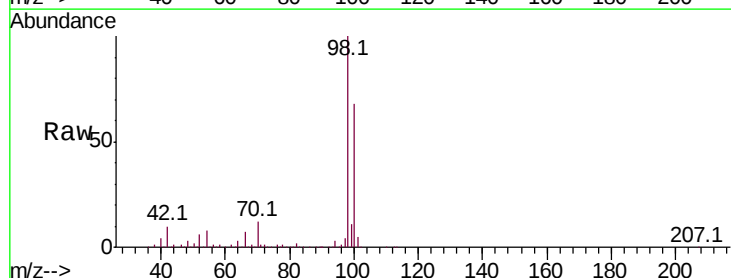
Acq: 20 Oct 2020 18:02

Tgt Ion: 98 Resp: 605634

Ion Ratio Lower Upper

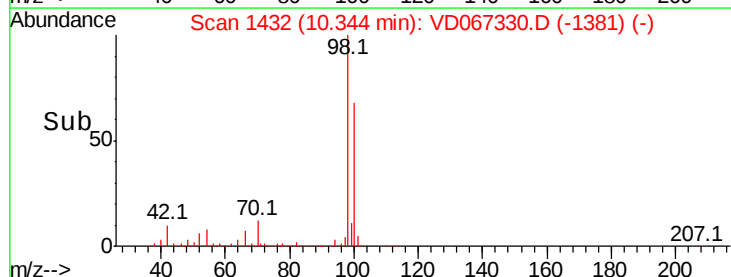
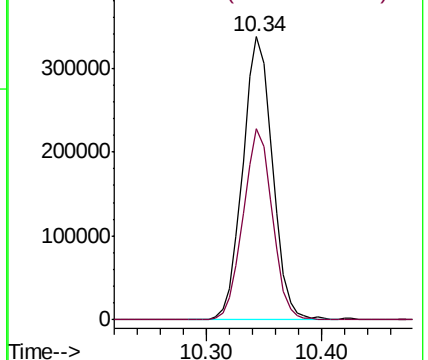
98 100

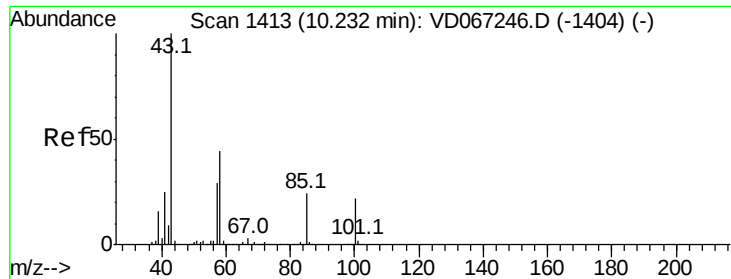
100 66.7 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.932 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.12 min

Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

Instrument :

MSVOA\_D

ClientSampleId :

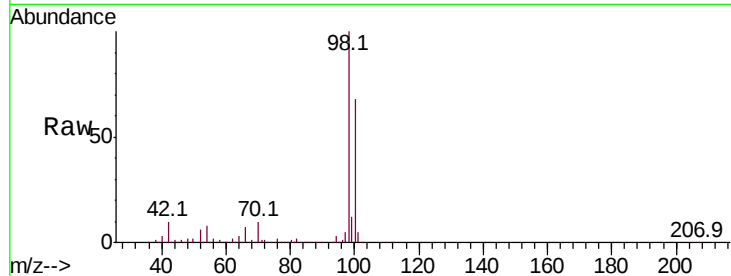
37A

Tot Ion: 43 Resp: 2412

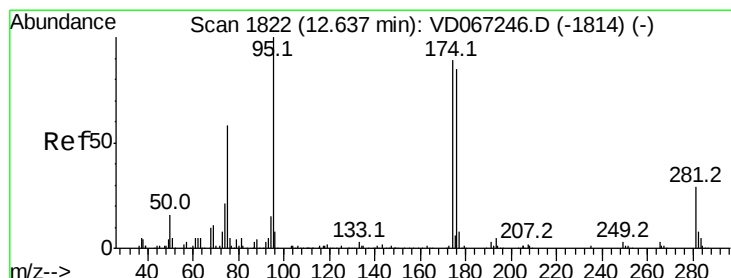
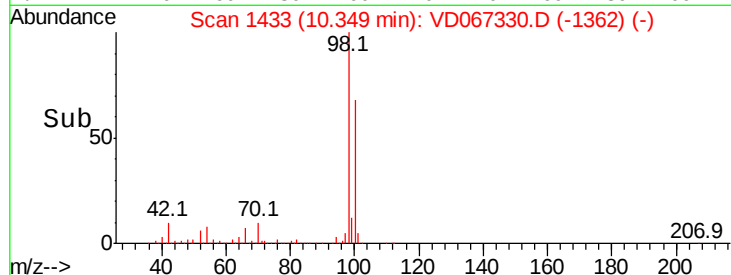
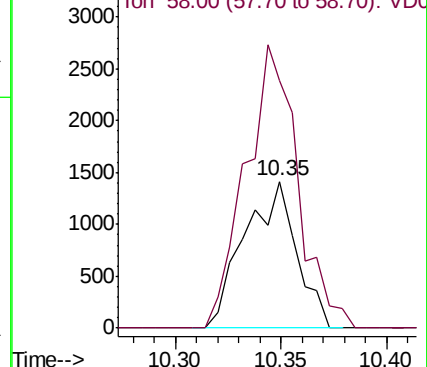
Ion Ratio Lower Upper

43 100

58 193.6 35.7 53.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC



#62

4-Bromofluorobenzene

Concen: 49.470 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067330.D

Acq: 20 Oct 2020 18:02

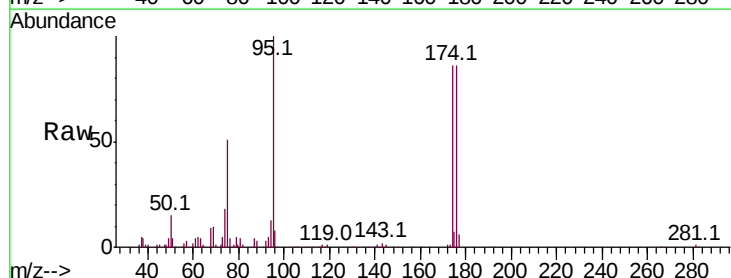
Tgt Ion: 95 Resp: 209533

Ion Ratio Lower Upper

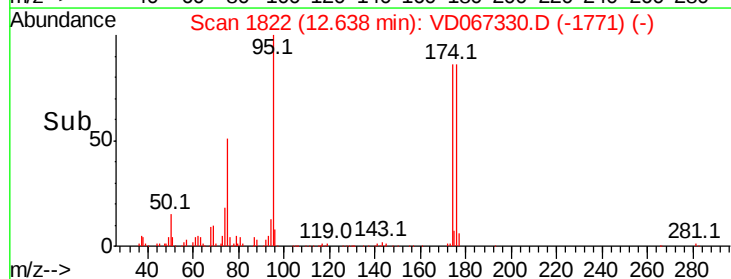
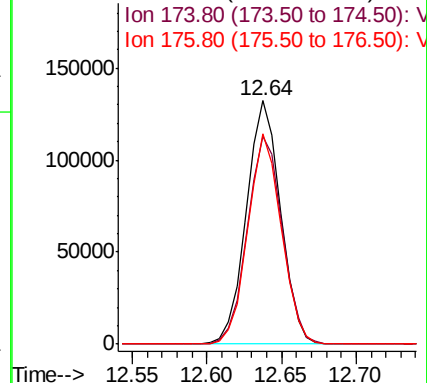
95 100

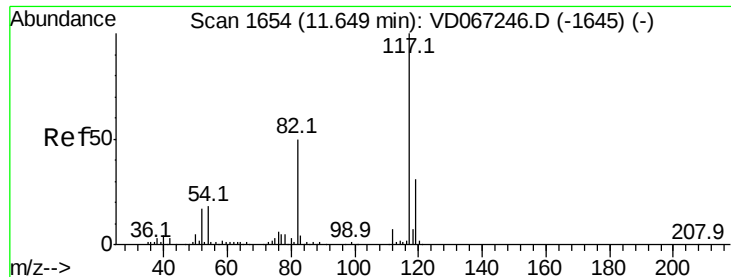
174 87.3 0.0 175.2

176 84.4 0.0 168.6



Abundance Ion 94.90 (94.60 to 95.60): VDC

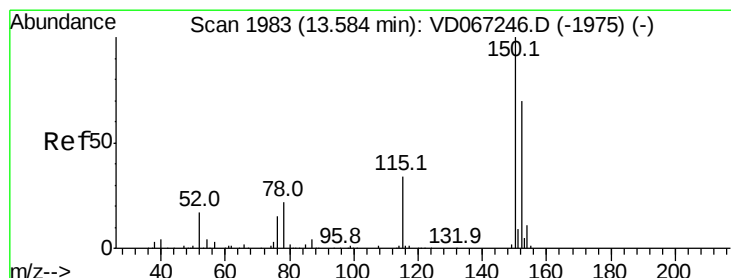
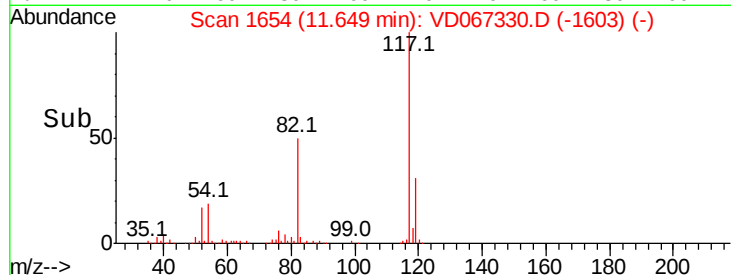
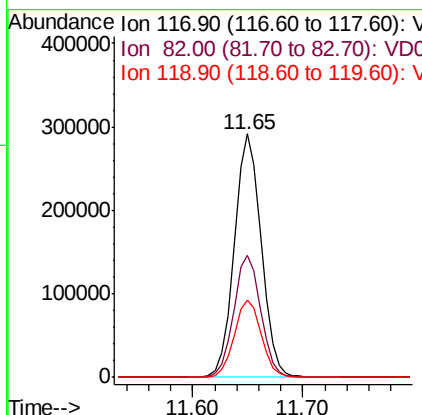
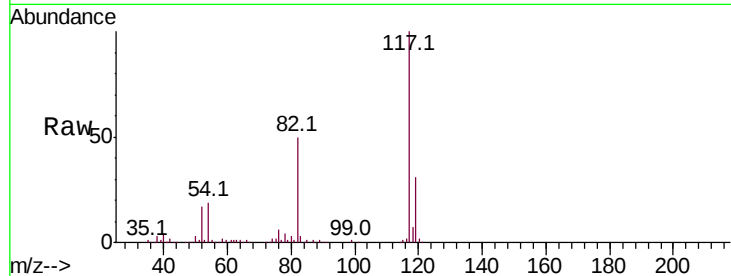




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067330.D  
Acq: 20 Oct 2020 18:02

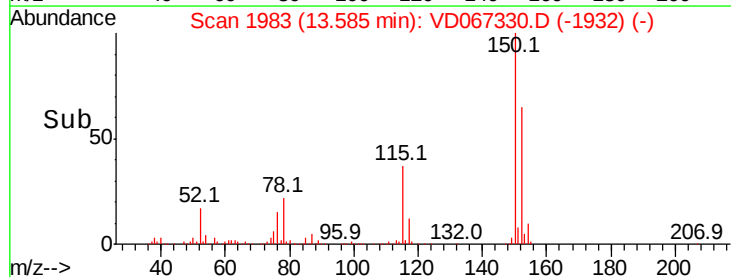
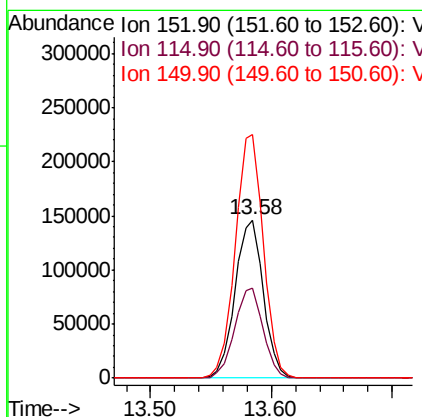
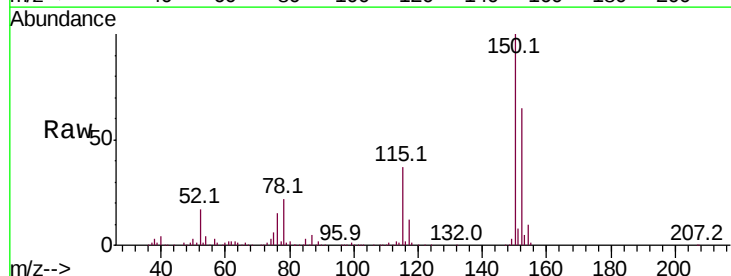
Instrument :  
MSVOA\_D  
ClientSampleId :  
37A

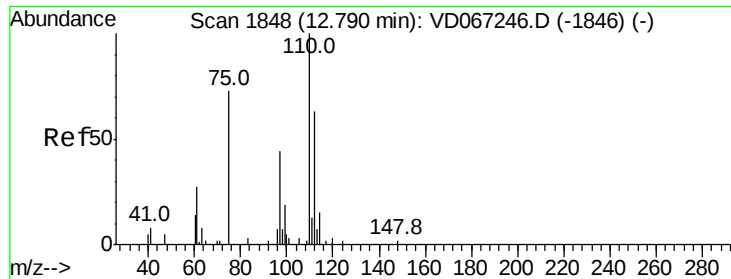
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 50.2  | 39.9  | 59.9  |
| 119     | 31.5  | 24.9  | 37.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD067330.D  
Acq: 20 Oct 2020 18:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.3  | 29.3  | 87.9  |
| 150     | 153.8 | 0.0   | 339.0 |

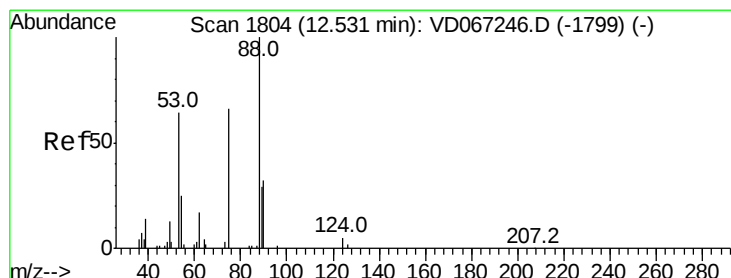
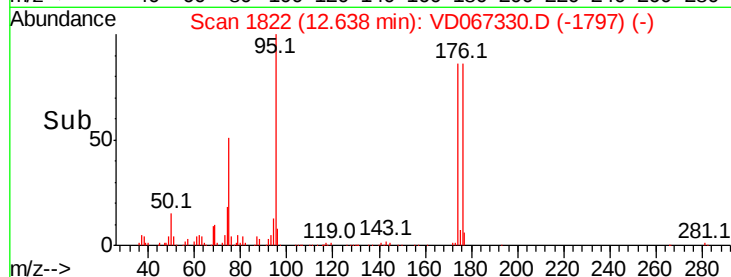
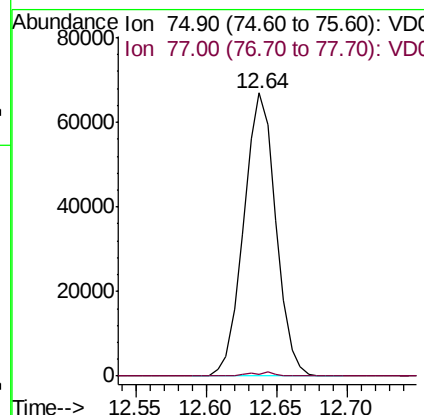
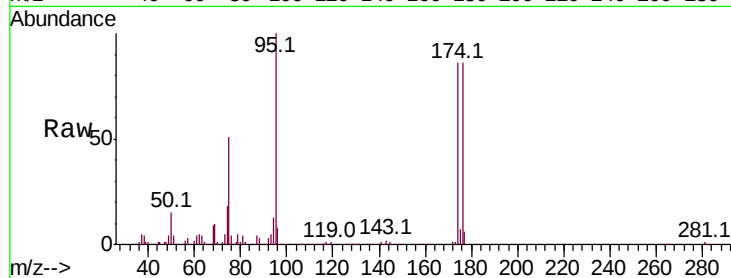




#76  
 1,2,3-Trichloropropane  
 Concen: 64.705 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. -0.15 min  
 Lab File: VD067330.D  
 Acq: 20 Oct 2020 18:02

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 37A

Tot Ion: 75 Resp: 106522  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 146.733 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.11 min  
 Lab File: VD067330.D  
 Acq: 20 Oct 2020 18:02

Tgt Ion: 75 Resp: 106522  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 78.5 117.7#  
 89 0.0 39.9 59.9#

