

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD110220\  
 Data File : VD067492.D  
 Acq On : 02 Nov 2020 15:31  
 Operator : VA/SY  
 Sample : L4541-03  
 Misc : 4.95G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 124024

Quant Time: Nov 03 00:29:29 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  | 310066   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 510530   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 502165   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 248152   | 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   | 156871   | 50.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.00% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 159714   | 47.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.02%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 597512   | 48.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.20%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 219296   | 51.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.58% |          |

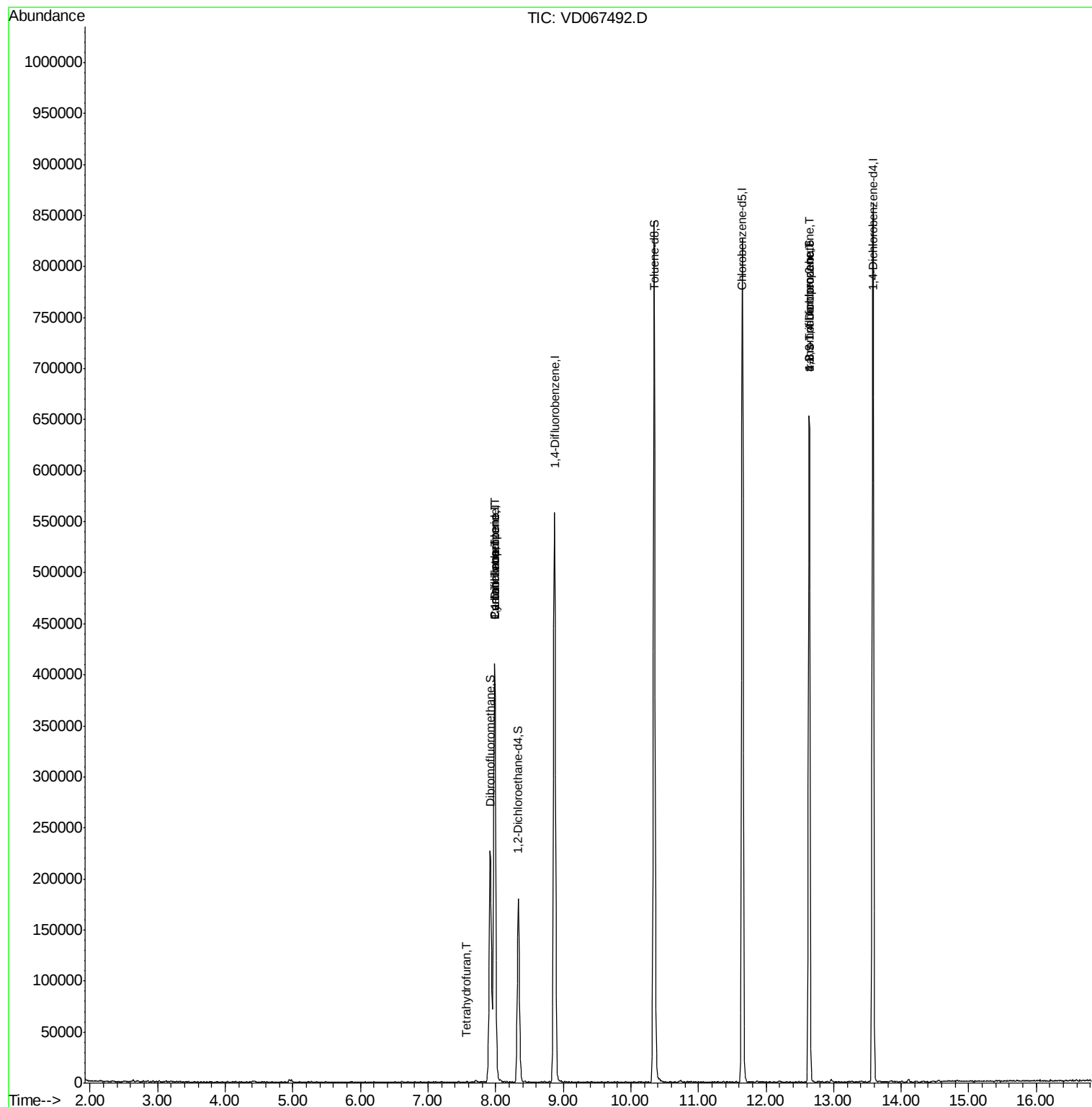
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 233      | Below Cal | #      | 44     |
| 5) Bromomethane                | 2.76  | 94   | 80       | Below Cal | #      | 3      |
| 20) Methylene Chloride         | 4.97  | 84   | 1004     | Below Cal | #      | 70     |
| 29) Tetrahydrofuran            | 7.57  | 42   | 882      | 3.199     | ug/l # | 33     |
| 31) Cyclohexane                | 7.98  | 56   | 6259     | 1.749     | ug/l # | 48     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 21111    | 4.879     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 30682    | 5.548     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 112348   | 65.321    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 112348   | 148.129   | ug/l # | 10     |

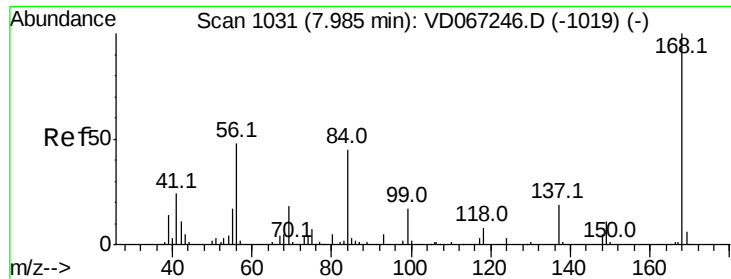
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
Quant Title : SW846 8260  
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: VD067492.D

Acq: 02 Nov 2020 15:31

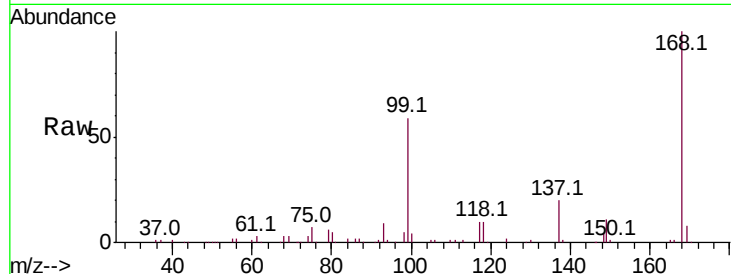
Instrument :  
MSVOA\_D  
ClientSampleId :  
124024

Tot Ion:168 Resp: 310066

Ion Ratio Lower Upper

168 100

99 58.7 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

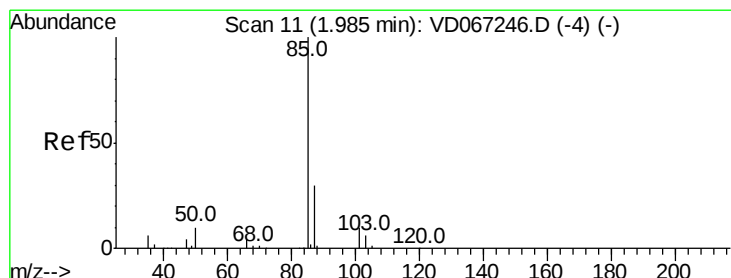
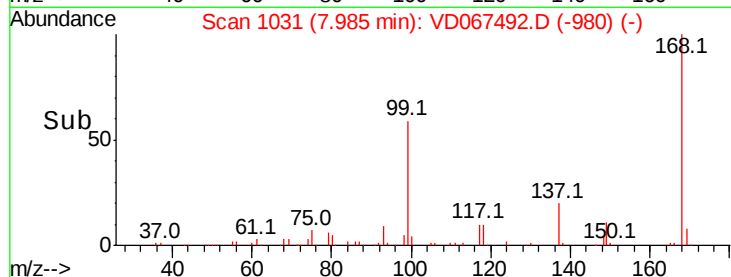
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067492.D

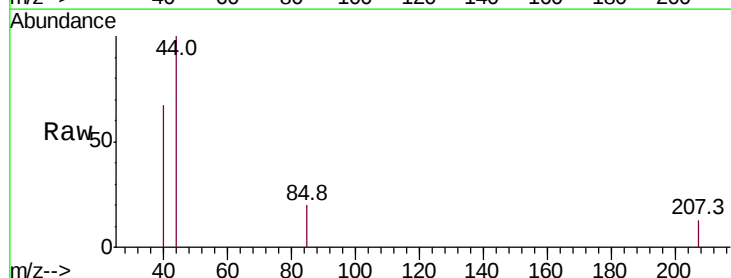
Acq: 02 Nov 2020 15:31

Tgt Ion: 85 Resp: 233

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

300

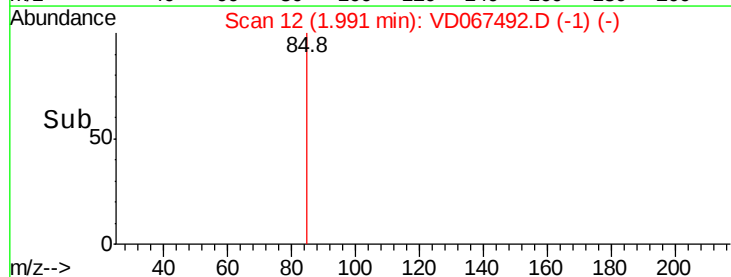
200

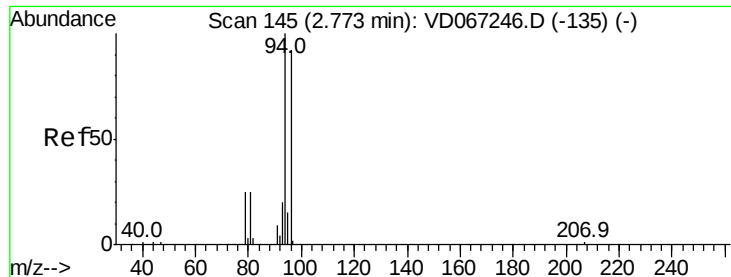
100

0

1.96 1.98 2.00

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD067492.D

Acq: 02 Nov 2020 15:31

Instrument :

MSVOA\_D

ClientSampleId :

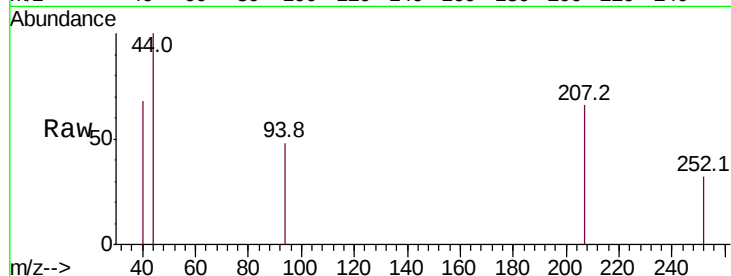
124024

Tot Ion: 94 Resp: 80

Ion Ratio Lower Upper

94 100

96 0.0 73.8 110.6#



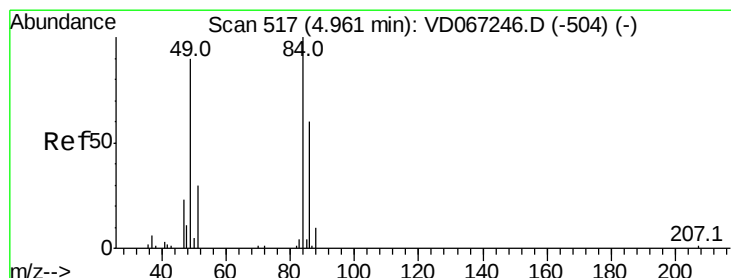
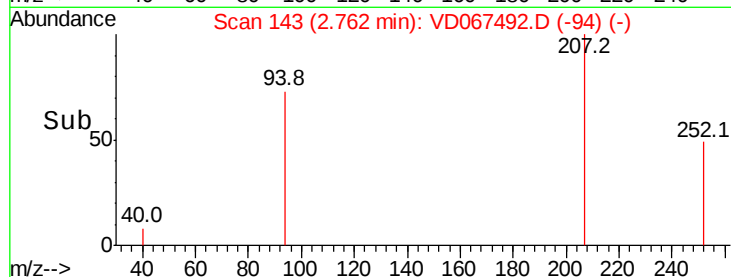
Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.76

2.77

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067492.D

Acq: 02 Nov 2020 15:31

Tgt Ion: 84 Resp: 1004

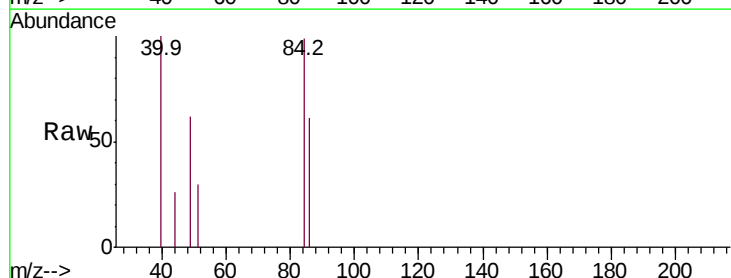
Ion Ratio Lower Upper

84 100

49 35.7 72.2 108.2#

51 30.2 23.8 35.8

86 61.9 48.2 72.4



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

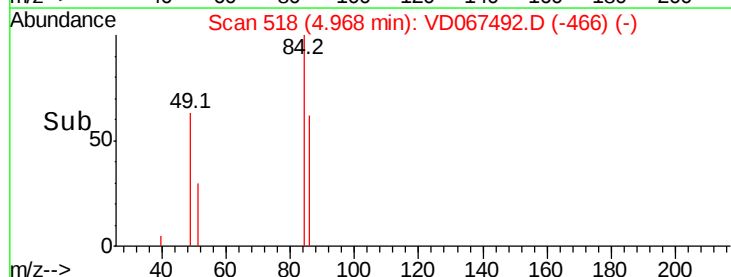
Ion 50.90 (50.60 to 51.60): VDC

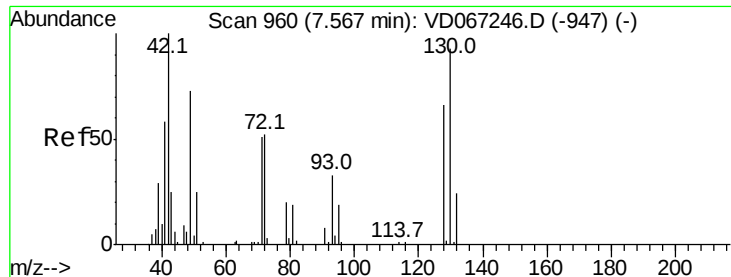
Ion 85.90 (85.60 to 86.60): VDC

4.97

4.98

Time-->





#29

Tetrahydrofuran

Concen: 3.199 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.00 min

Lab File: VD067492.D

Acq: 02 Nov 2020 15:31

Instrument :

MSVOA\_D

ClientSampleId :

124024

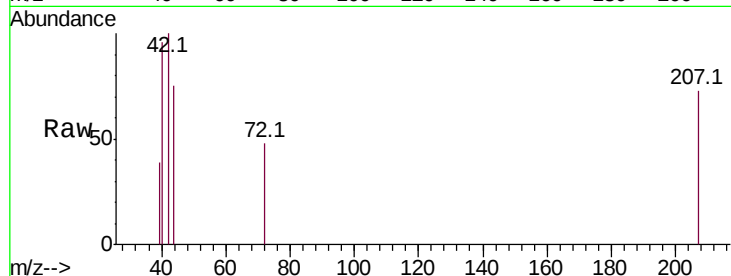
Tot Ion: 42 Resp: 882

Ion Ratio Lower Upper

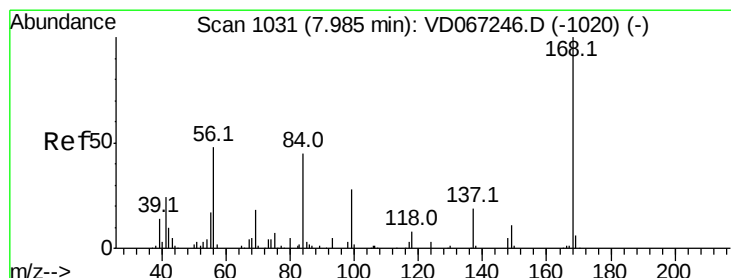
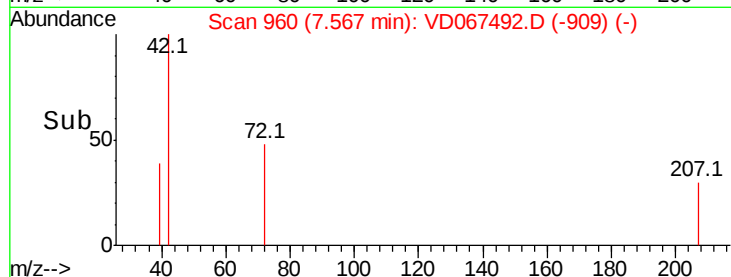
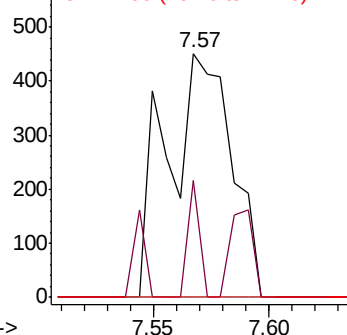
42 100

72 8.6 43.2 64.8#

71 0.0 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: 1.749 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067492.D

Acq: 02 Nov 2020 15:31

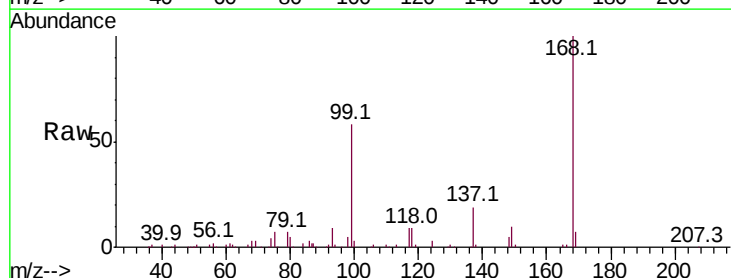
Tgt Ion: 56 Resp: 6259

Ion Ratio Lower Upper

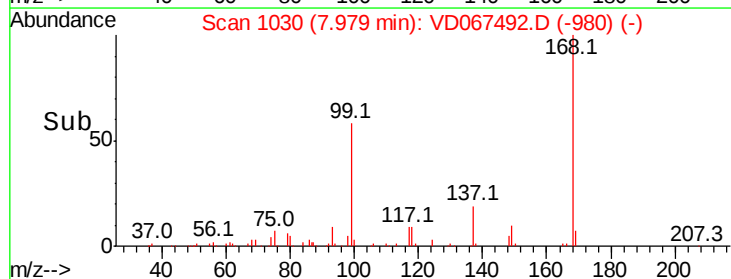
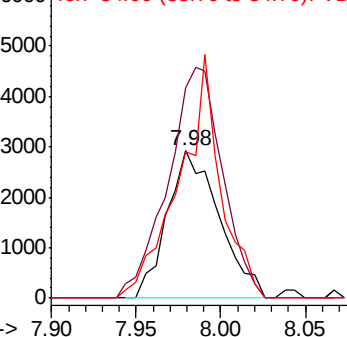
56 100

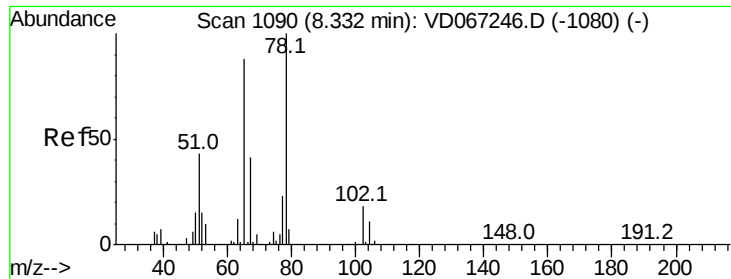
69 142.6 29.8 44.6#

84 99.6 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: 50.499 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067492.D

Acq: 02 Nov 2020 15:31

Instrument :

MSVOA\_D

ClientSampleId :

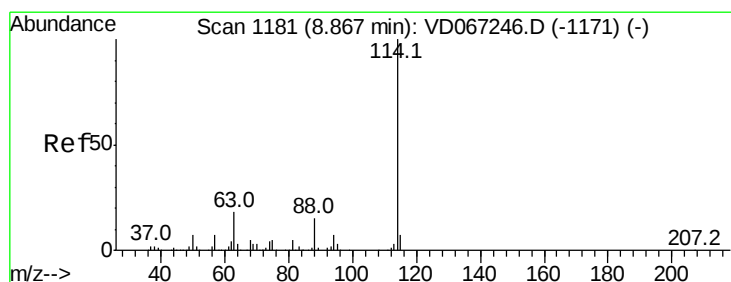
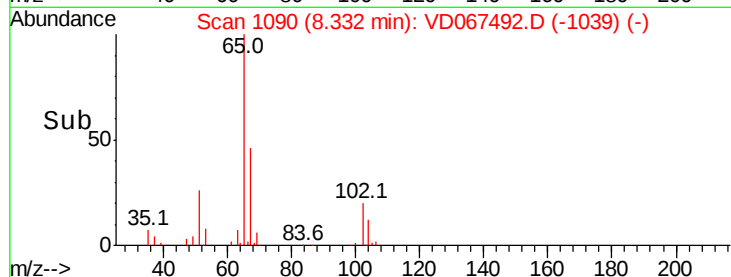
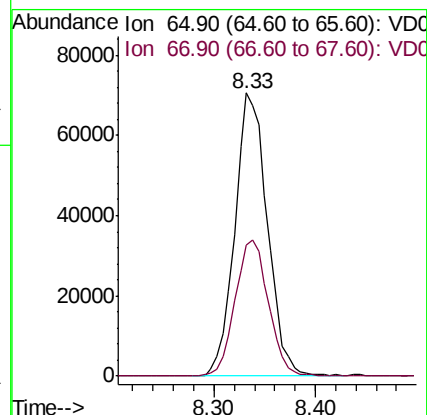
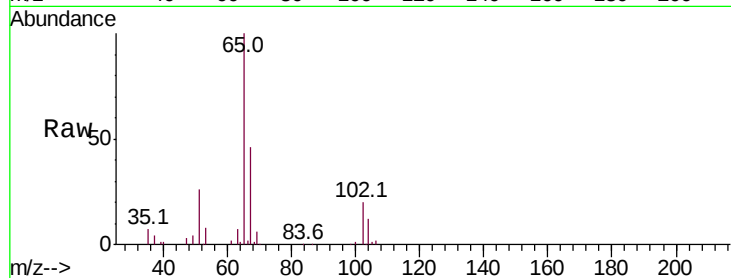
124024

Tot Ion: 65 Resp: 156871

Ion Ratio Lower Upper

65 100

67 49.2 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD067492.D

Acq: 02 Nov 2020 15:31

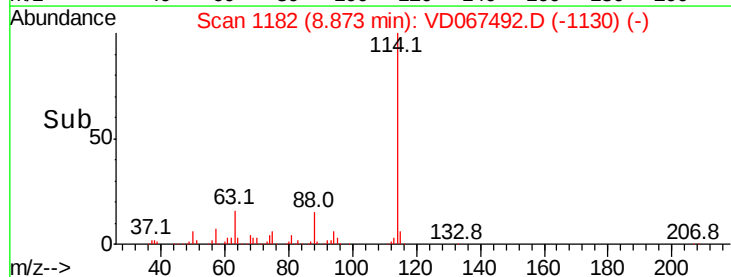
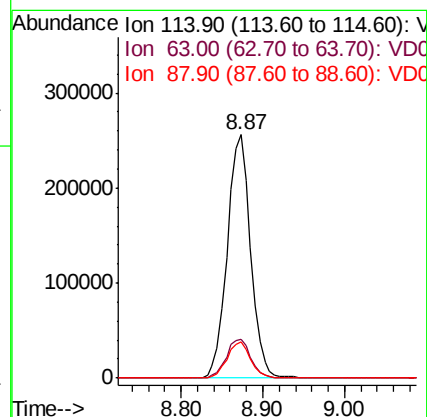
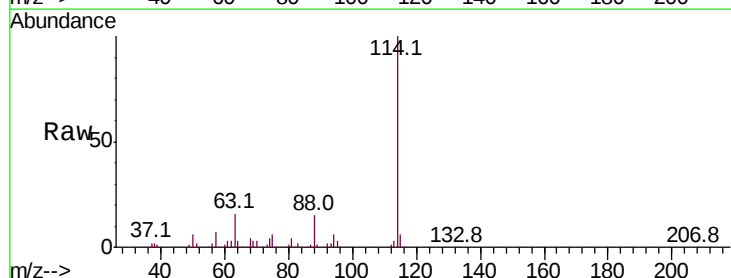
Tgt Ion: 114 Resp: 510530

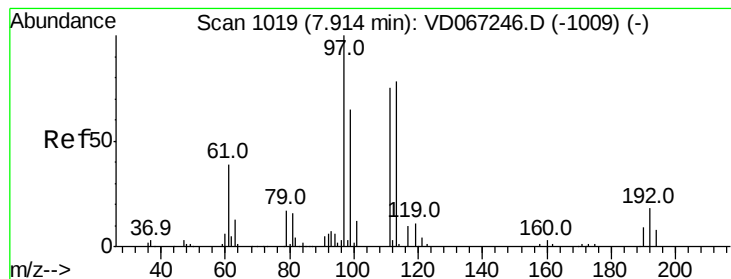
Ion Ratio Lower Upper

114 100

63 16.0 0.0 35.0

88 15.0 0.0 30.6

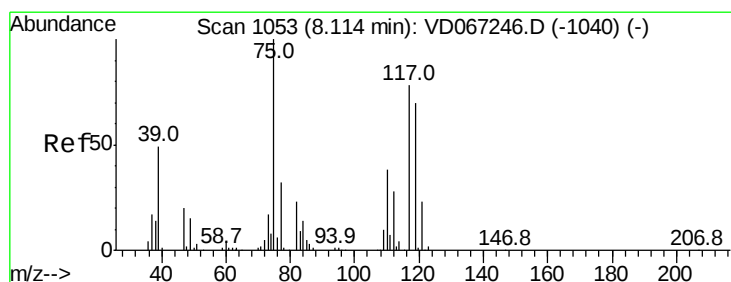
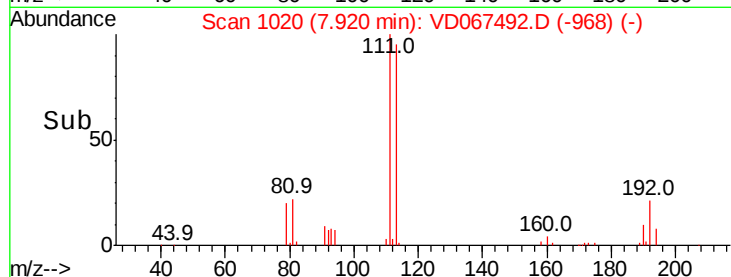
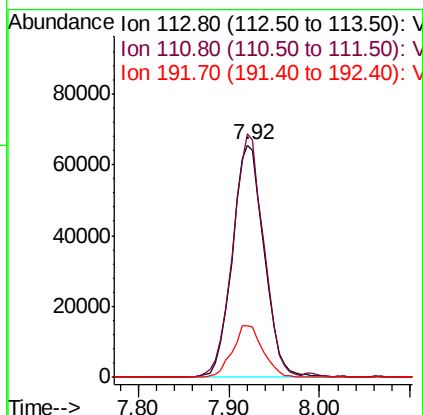
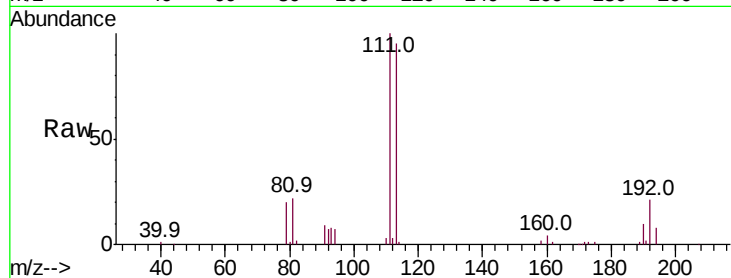




#35  
 Dibromofluoromethane  
 Concen: 47.008 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD067492.D  
 Acq: 02 Nov 2020 15:31

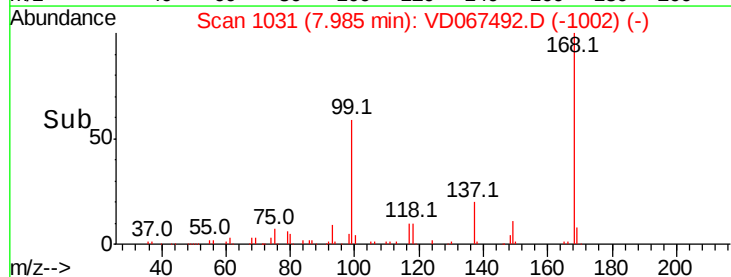
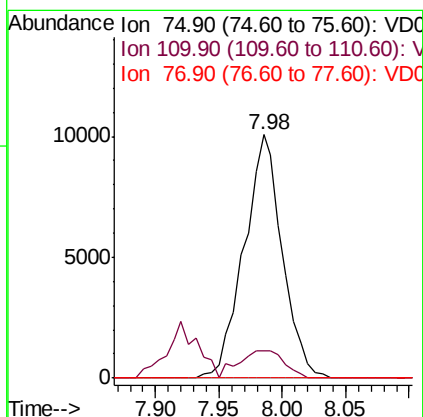
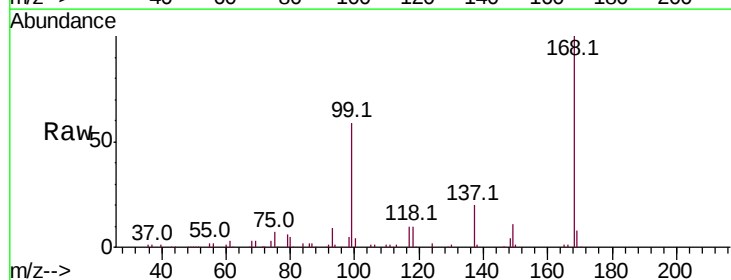
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 124024

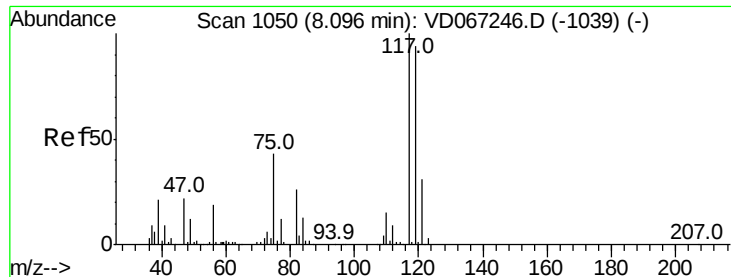
Tot Ion:113 Resp: 159714  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 81.6 122.4  
 192 21.3 17.0 25.4



#36  
 1,1-Dichloropropene  
 Concen: 4.879 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD067492.D  
 Acq: 02 Nov 2020 15:31

Tgt Ion: 75 Resp: 21111  
 Ion Ratio Lower Upper  
 75 100  
 110 13.5 19.6 58.7#  
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.548 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067492.D

Acq: 02 Nov 2020 15:31

Instrument :

MSVOA\_D

ClientSampleId :

124024

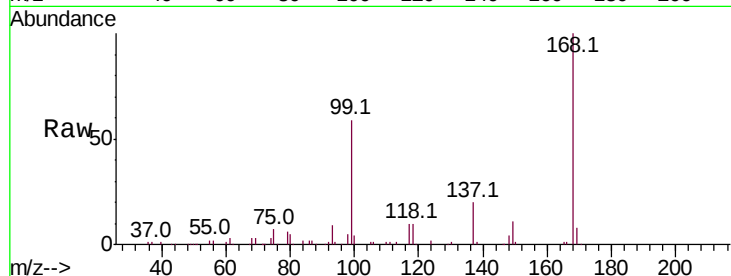
Tot Ion:117 Resp: 30682

Ion Ratio Lower Upper

117 100

119 4.1 75.0 112.4#

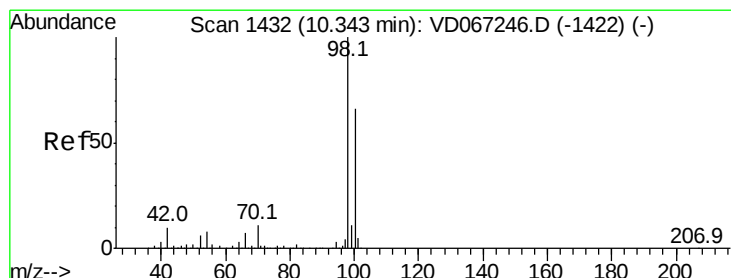
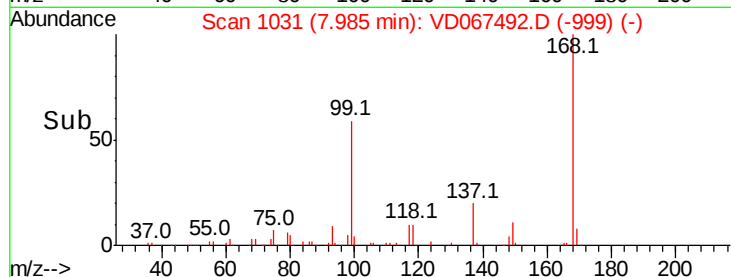
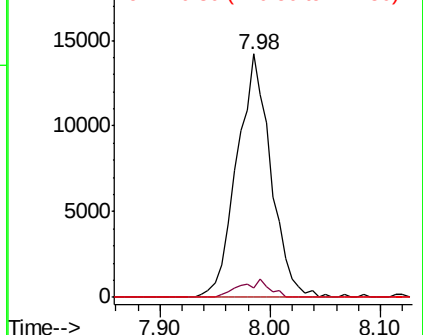
121 0.0 24.9 37.3#



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: 48.596 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067492.D

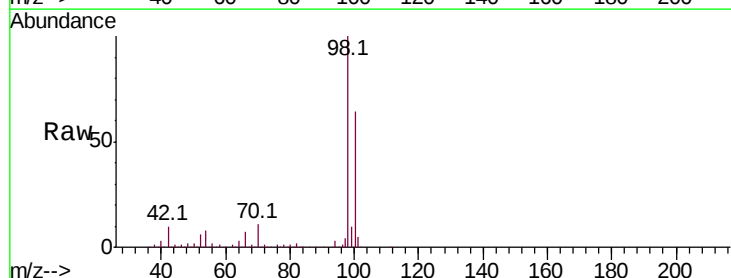
Acq: 02 Nov 2020 15:31

Tgt Ion: 98 Resp: 597512

Ion Ratio Lower Upper

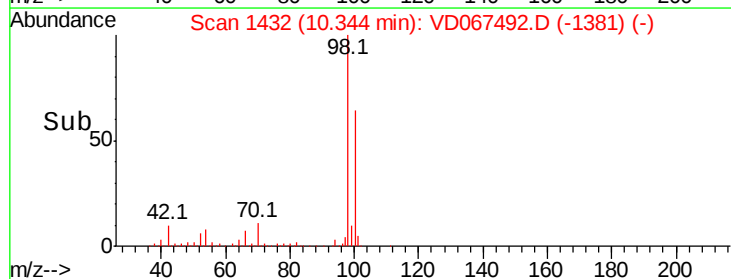
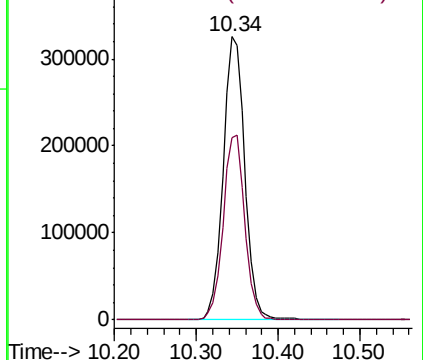
98 100

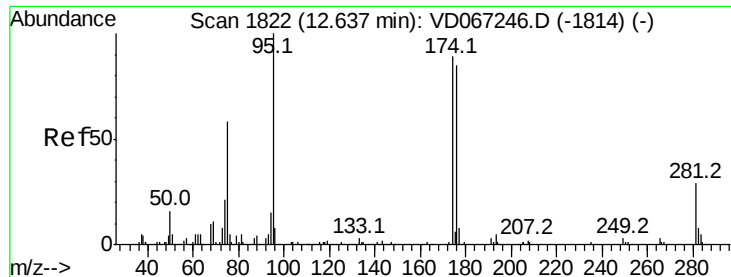
100 65.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

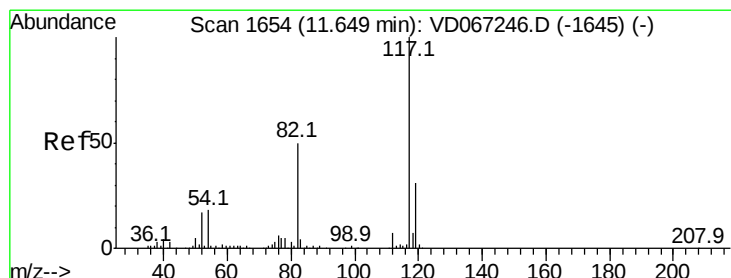
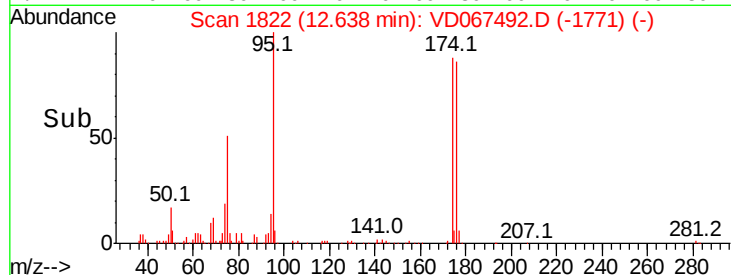
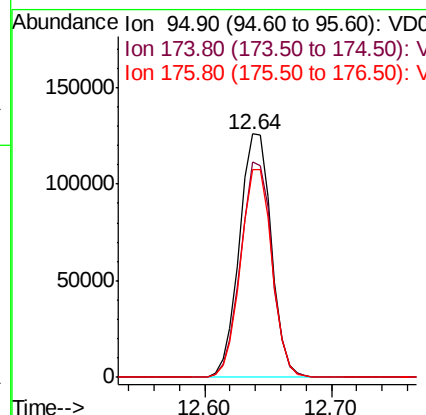
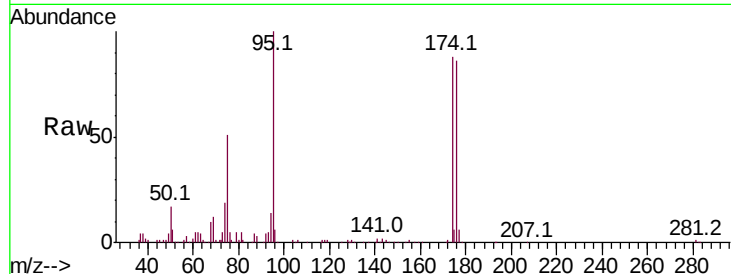




#62  
4-Bromofluorobenzene  
Concen: 51.292 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD067492.D  
Acq: 02 Nov 2020 15:31

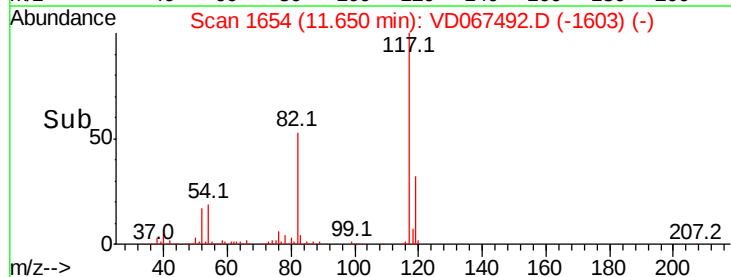
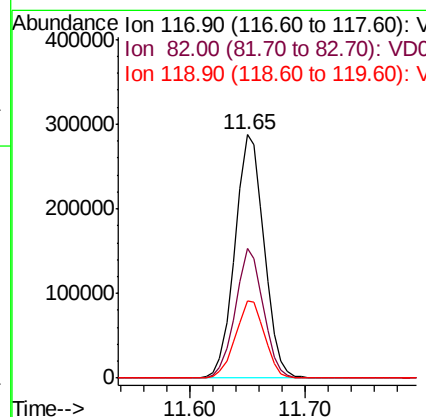
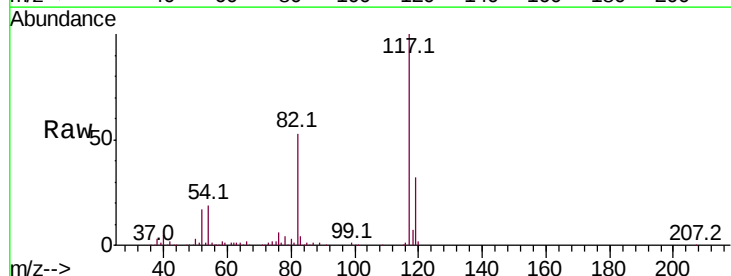
Instrument :  
MSVOA\_D  
ClientSampleId :  
124024

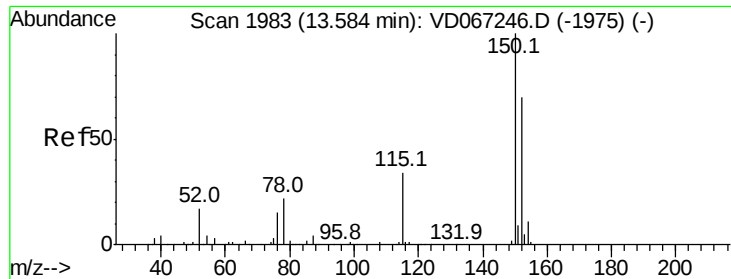
Tot Ion: 95 Resp: 219296  
Ion Ratio Lower Upper  
95 100  
174 86.9 0.0 175.2  
176 84.2 0.0 168.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067492.D  
Acq: 02 Nov 2020 15:31

Tgt Ion: 117 Resp: 502165  
Ion Ratio Lower Upper  
117 100  
82 53.1 39.9 59.9  
119 31.9 24.9 37.3



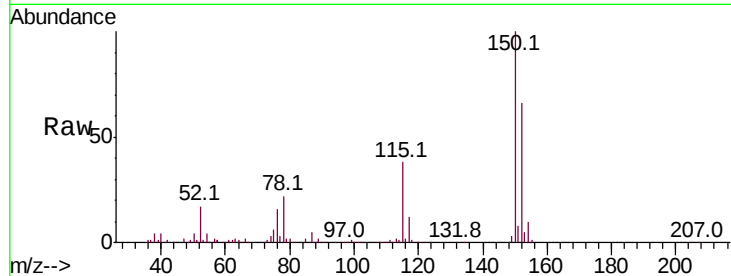


#72

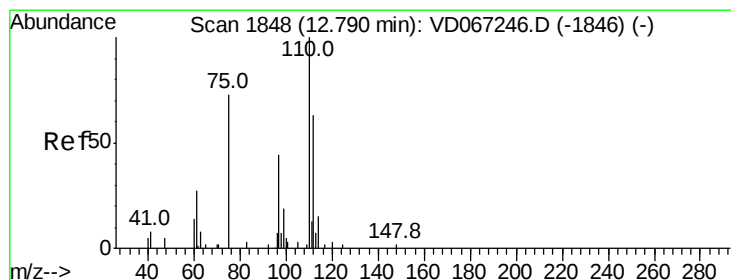
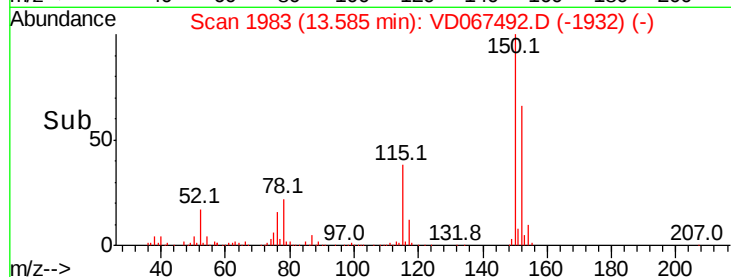
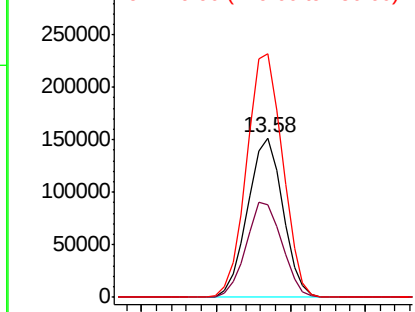
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD067492.D  
Acq: 02 Nov 2020 15:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
124024

Tot Ion:152 Resp: 248152  
Ion Ratio Lower Upper  
152 100  
115 60.2 29.3 87.9  
150 155.4 0.0 339.0



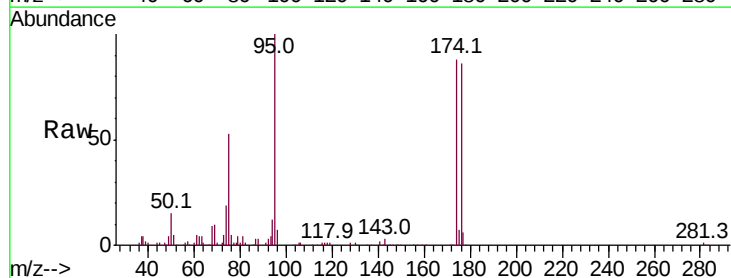
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



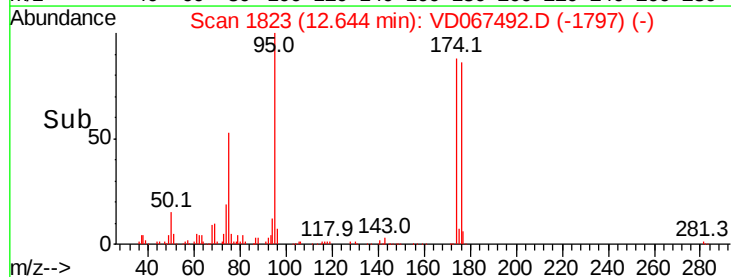
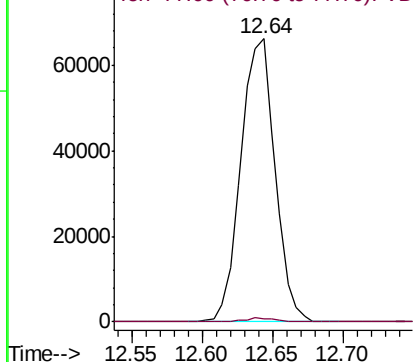
#76

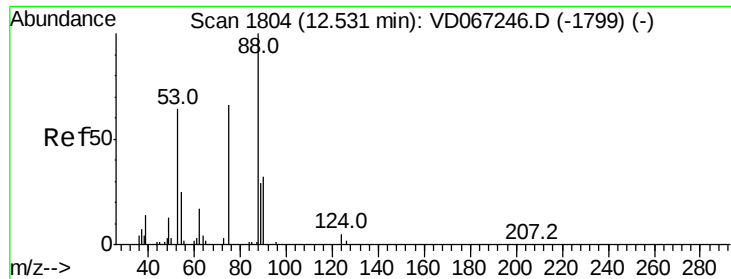
1,2,3-Trichloropropane  
Concen: 65.321 ug/l  
RT: 12.64 min Scan# 1823  
Delta R.T. -0.15 min  
Lab File: VD067492.D  
Acq: 02 Nov 2020 15:31

Tgt Ion: 75 Resp: 112348  
Ion Ratio Lower Upper  
75 100  
77 1.1 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: 148.129 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD067492.D

Acq: 02 Nov 2020 15:31

Instrument :

MSVOA\_D

ClientSampleId :

124024

Tot Ion: 75 Resp: 112348

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.0 39.9 59.9#

