

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100720\  
 Data File : VD067162.D  
 Acq On : 07 Oct 2020 19:41  
 Operator : VA/SY  
 Sample : L4303-21  
 Misc : 7.52G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 IDW-20201006

Quant Time: Oct 08 07:26:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 446498   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 730864   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 711859   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 348186   | 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   | 224987   | 52.31  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.62% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 237679   | 49.67  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.34%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 864395   | 49.58  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.16%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 315860   | 53.36  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.72% |          |

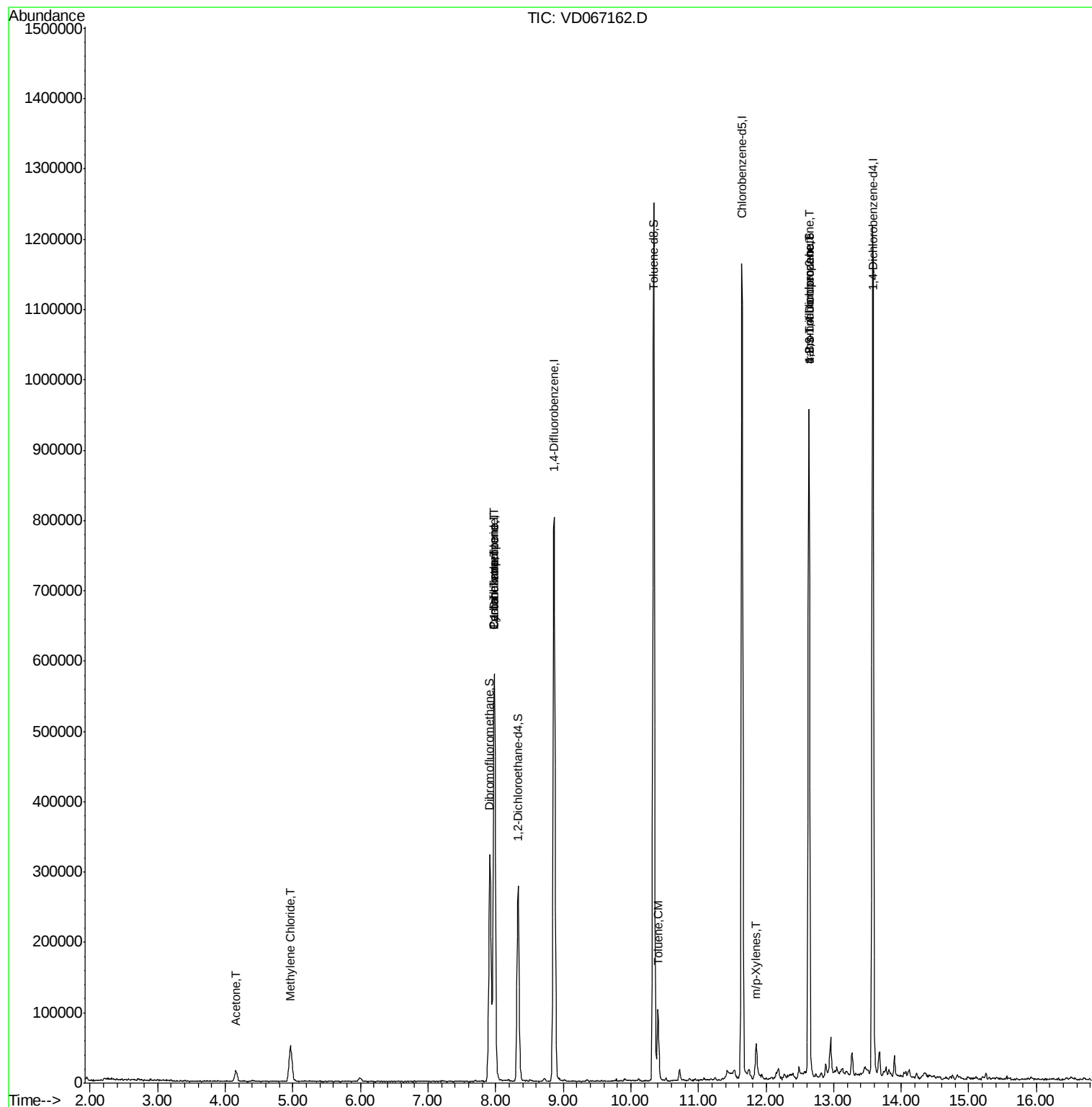
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.87  | 94   | 67       | Below Cal | #      | 3      |
| 16) Acetone                    | 4.16  | 43   | 27499    | 41.887    | ug/l   | 98     |
| 20) Methylene Chloride         | 4.96  | 84   | 41855    | 2.001     | ug/l   | 96     |
| 31) Cyclohexane                | 7.98  | 56   | 9179     | 1.421     | ug/l # | 2      |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 31775    | 4.664     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 44033    | 5.974     | ug/l # | 17     |
| 52) Toluene                    | 10.40 | 92   | 42573    | 3.493     | ug/l   | 100    |
| 68) m/p-Xylenes                | 11.85 | 106  | 9854     | 1.042     | ug/l   | 95     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 158015   | 52.102    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 158015   | 129.896   | ug/l # | 12     |

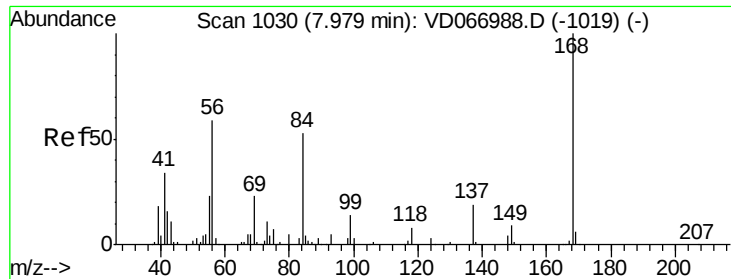
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 01 15:19:17 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067162.D

Acq: 07 Oct 2020 19:41

Instrument :

MSVOA\_D

ClientSampleId :

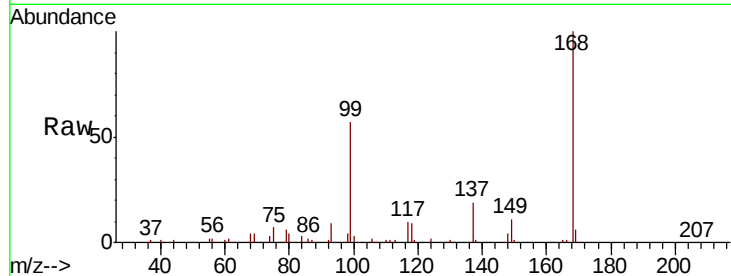
IDW-20201006

Tot Ion:168 Resp: 446498

Ion Ratio Lower Upper

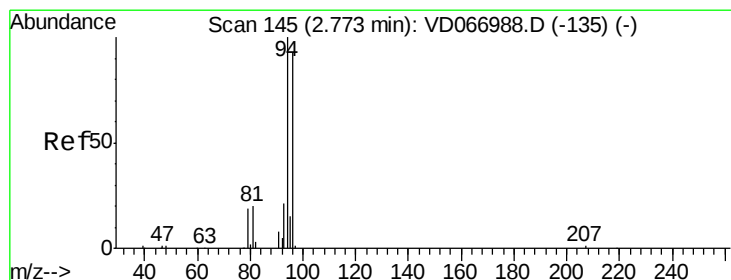
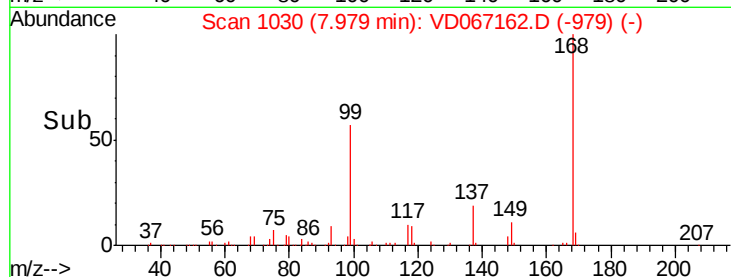
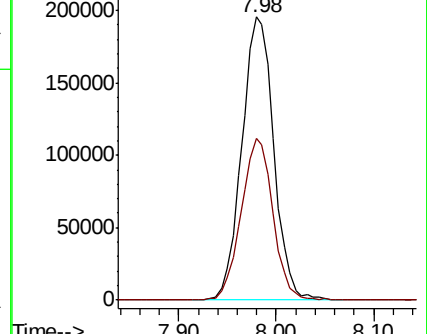
168 100

99 57.3 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.87 min Scan# 162

Delta R.T. 0.10 min

Lab File: VD067162.D

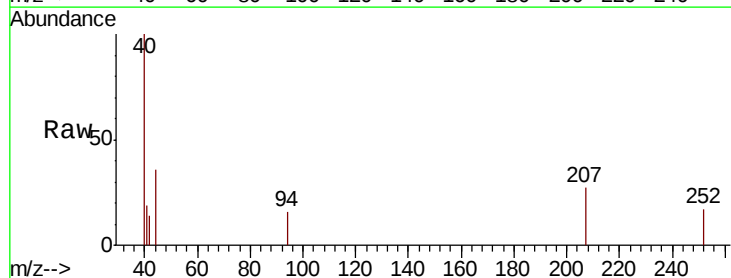
Acq: 07 Oct 2020 19:41

Tgt Ion: 94 Resp: 67

Ion Ratio Lower Upper

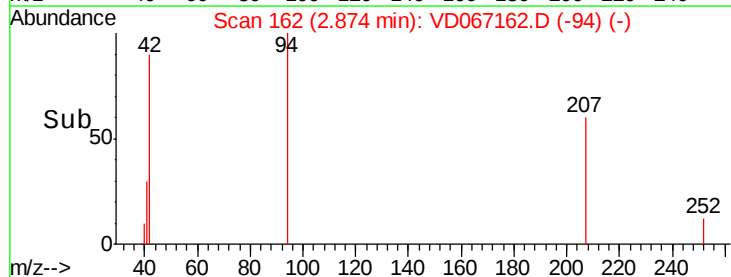
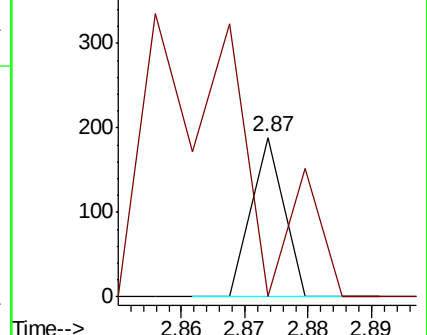
94 100

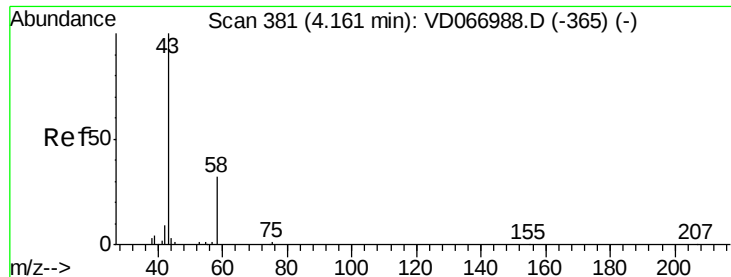
96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 41.887 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067162.D

Acq: 07 Oct 2020 19:41

Instrument :

MSVOA\_D

ClientSampleId :

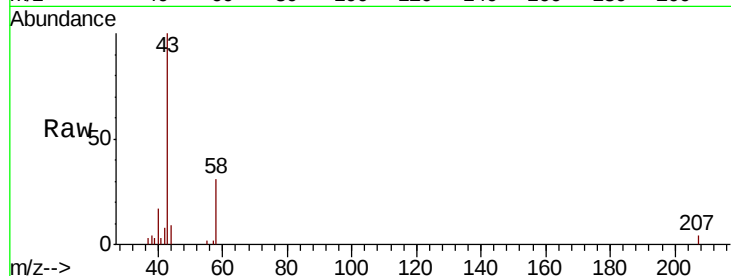
IDW-20201006

Tot Ion: 43 Resp: 27499

Ion Ratio Lower Upper

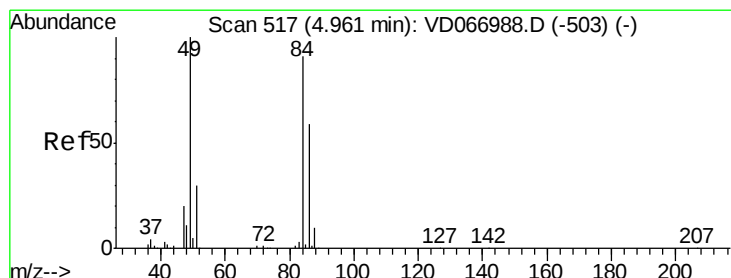
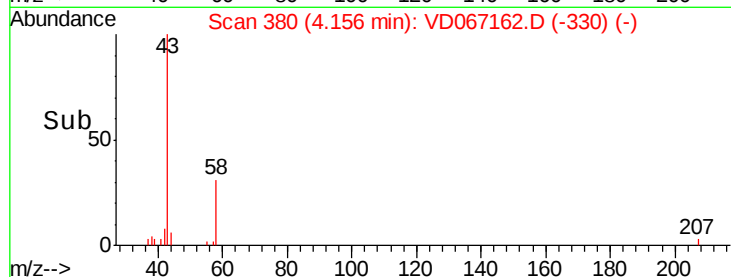
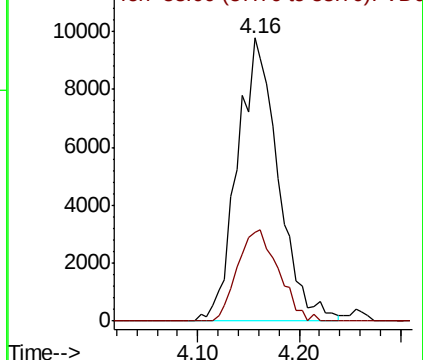
43 100

58 31.2 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 2.001 ug/l

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067162.D

Acq: 07 Oct 2020 19:41

Tgt Ion: 84 Resp: 41855

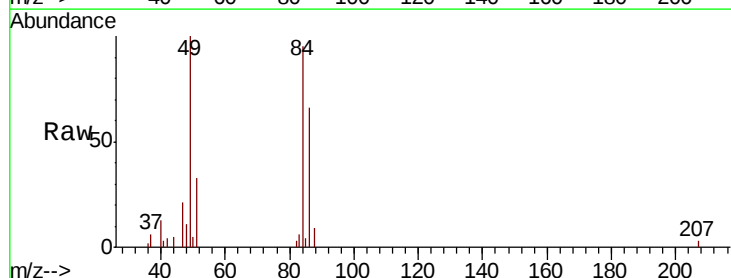
Ion Ratio Lower Upper

84 100

49 105.2 88.2 132.2

51 34.6 26.6 39.8

86 69.1 52.1 78.1

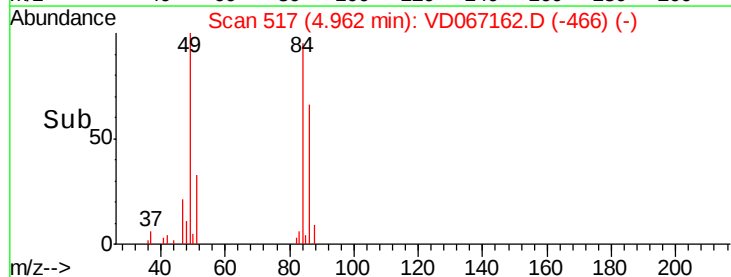
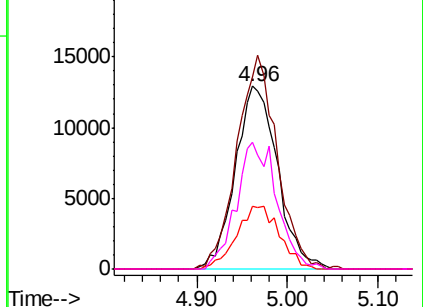


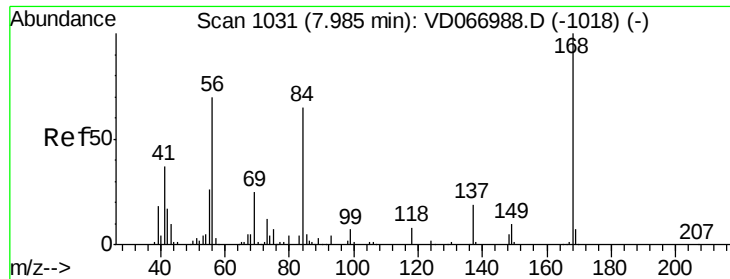
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

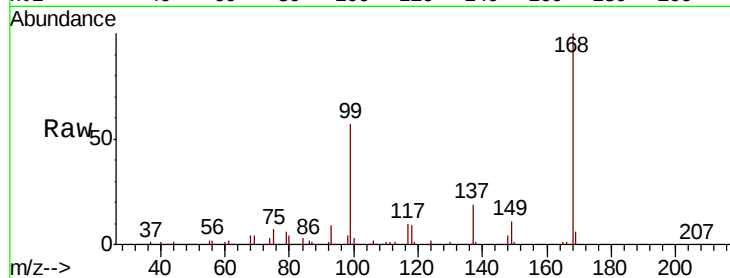




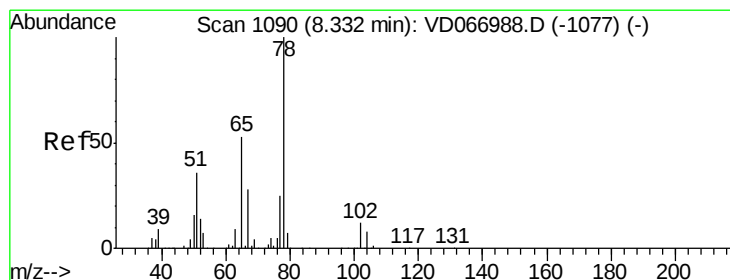
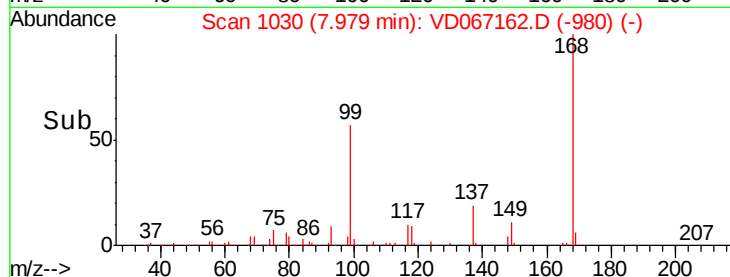
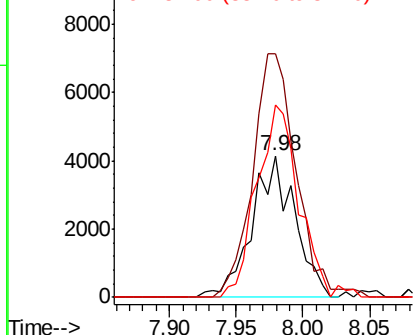
#31  
Cyclohexane  
Concen: 1.421 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD067162.D  
Acq: 07 Oct 2020 19:41

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Tot Ion: 56 Resp: 9179  
Ion Ratio Lower Upper  
56 100  
69 172.2 29.0 43.6#  
84 136.4 74.2 111.2#

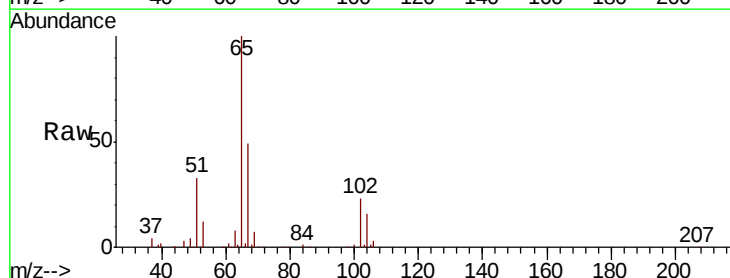


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

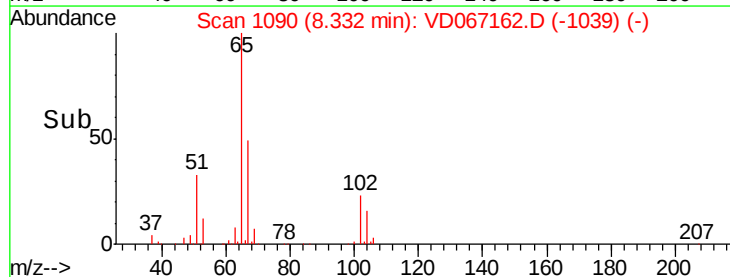
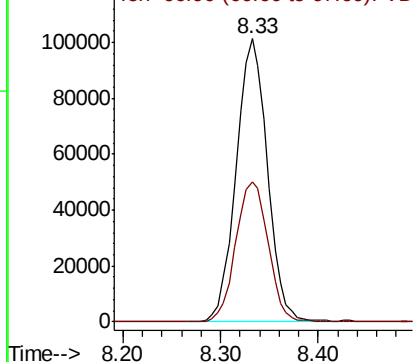


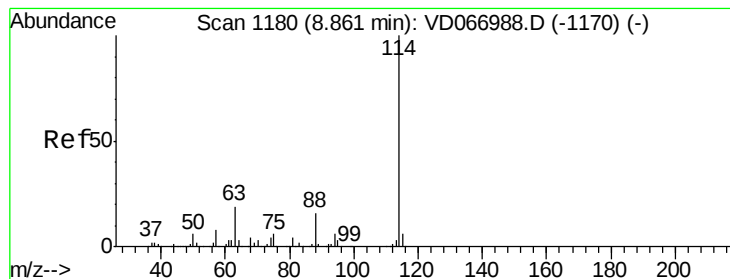
#33  
1,2-Dichloroethane-d4  
Concen: 52.315 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. 0.00 min  
Lab File: VD067162.D  
Acq: 07 Oct 2020 19:41

Tgt Ion: 65 Resp: 224987  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VD067162.D

Acq: 07 Oct 2020 19:41

Instrument :

MSVOA\_D

ClientSampleId :

IDW-20201006

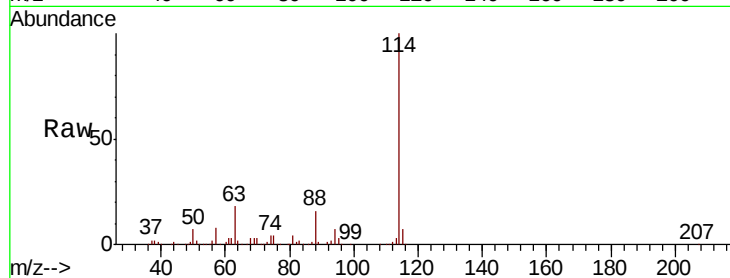
Tot Ion:114 Resp: 730864

Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.4

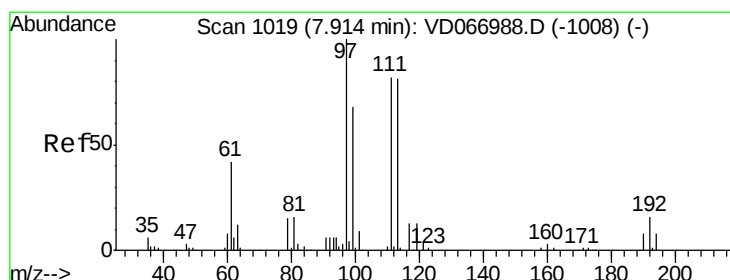
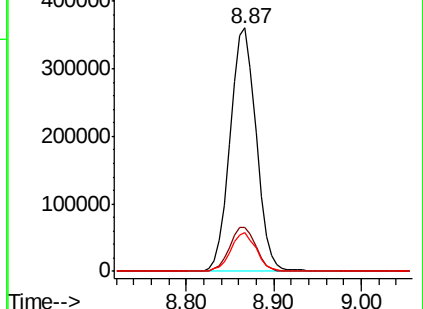
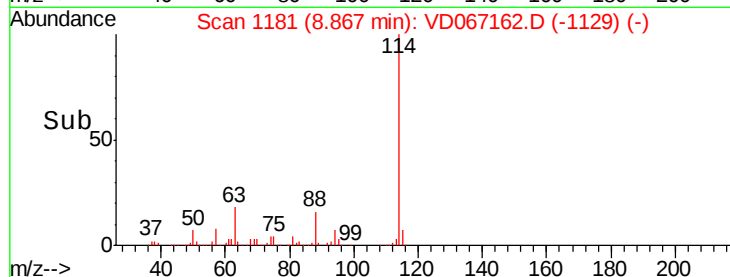
88 15.9 0.0 31.2



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: 49.673 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067162.D

Acq: 07 Oct 2020 19:41

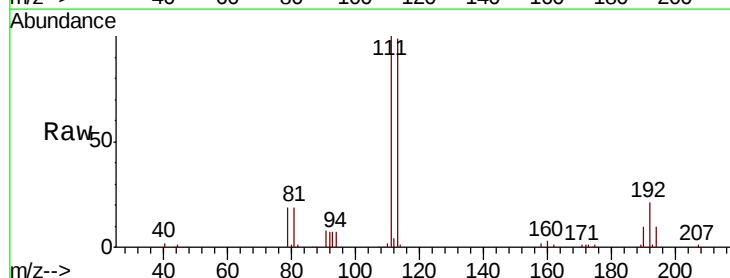
Tgt Ion:113 Resp: 237679

Ion Ratio Lower Upper

113 100

111 103.0 83.0 124.4

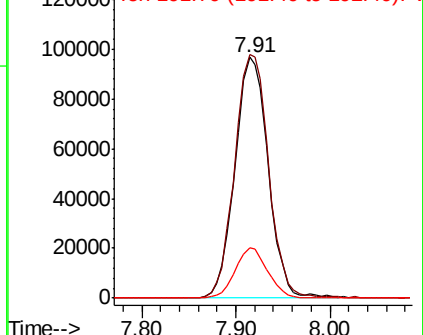
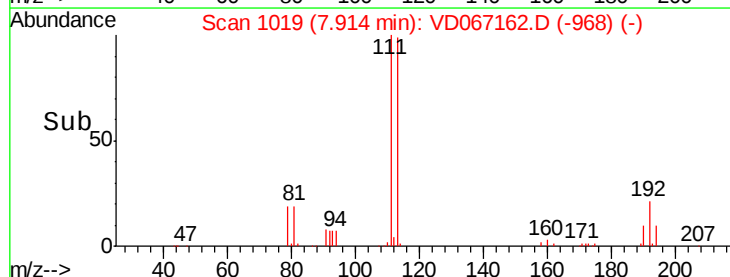
192 20.3 15.5 23.3

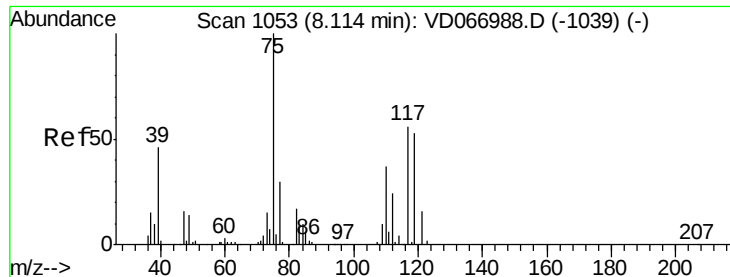


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.664 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067162.D

Acq: 07 Oct 2020 19:41

Instrument :

MSVOA\_D

ClientSampleId :

IDW-20201006

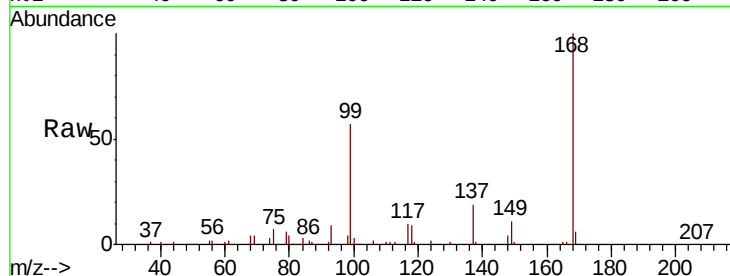
Tot Ion: 75 Resp: 31775

Ion Ratio Lower Upper

75 100

110 12.0 18.4 55.0#

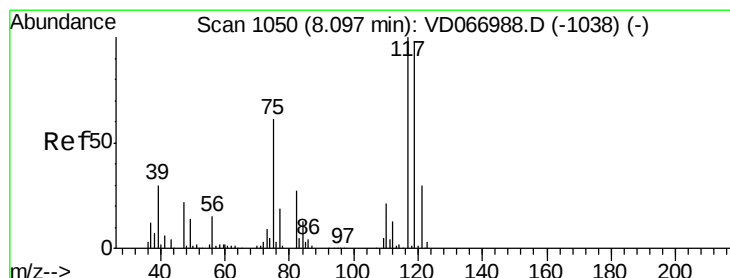
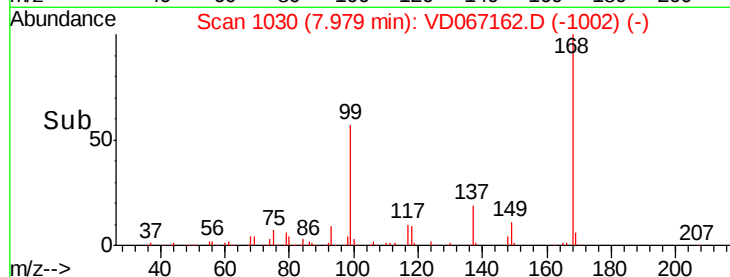
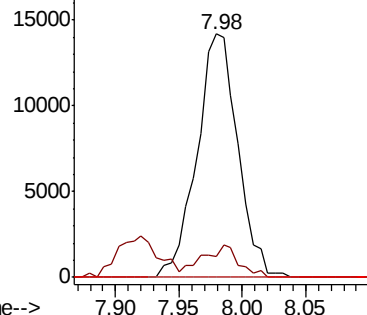
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VD066988.D (-1039) (-)

Ion 109.90 (109.60 to 110.60): VD066988.D (-1039) (-)

Ion 76.90 (76.60 to 77.60): VD066988.D (-1039) (-)



#38

Carbon Tetrachloride

Concen: 5.974 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067162.D

Acq: 07 Oct 2020 19:41

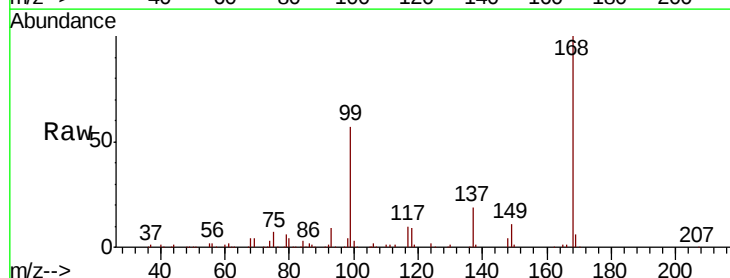
Tgt Ion: 117 Resp: 44033

Ion Ratio Lower Upper

117 100

119 7.9 78.7 118.1#

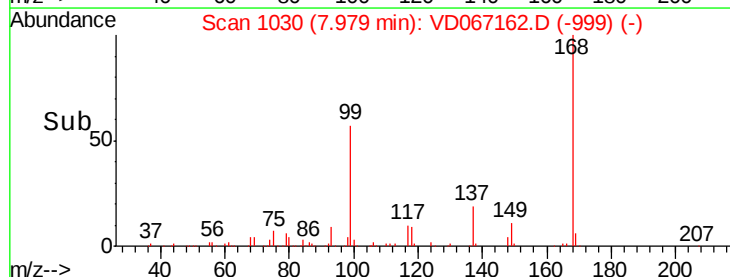
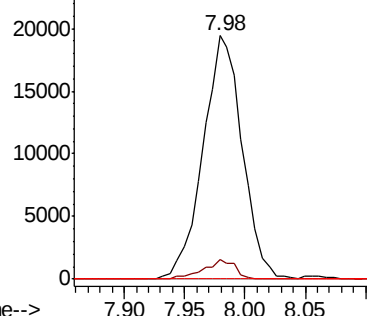
121 0.0 24.2 36.2#

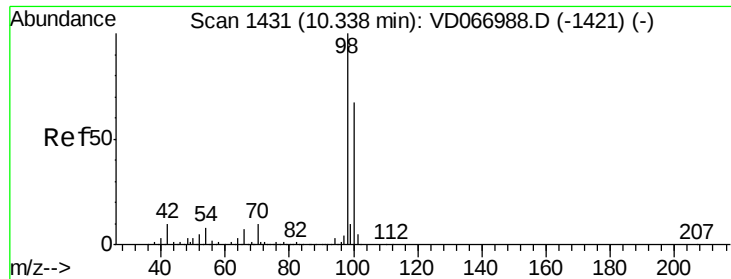


Abundance Ion 116.80 (116.50 to 117.50): VD066988.D (-1038) (-)

Ion 118.80 (118.50 to 119.50): VD066988.D (-1038) (-)

Ion 120.80 (120.50 to 121.50): VD066988.D (-1038) (-)

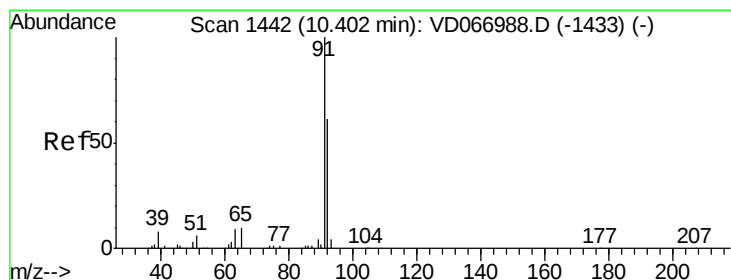
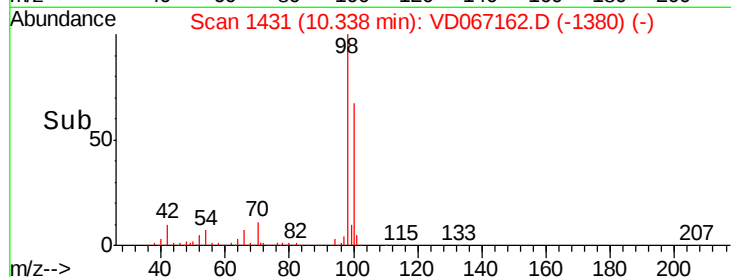
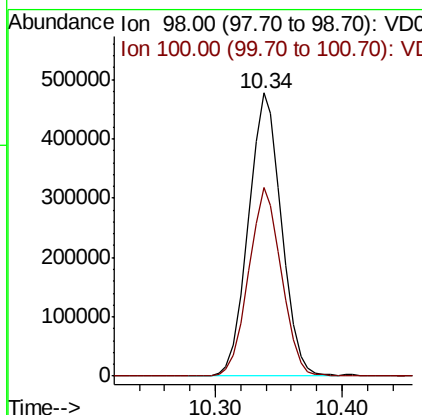
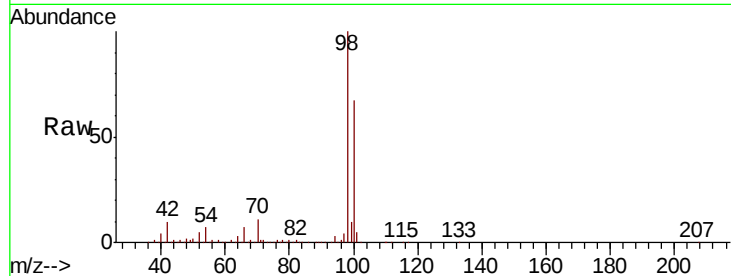




#50  
Toluene-d8  
Concen: 49.577 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD067162.D  
Acq: 07 Oct 2020 19:41

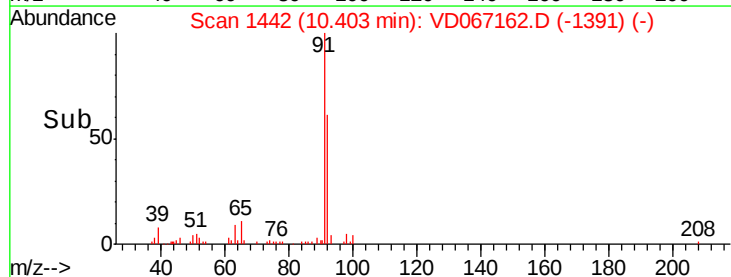
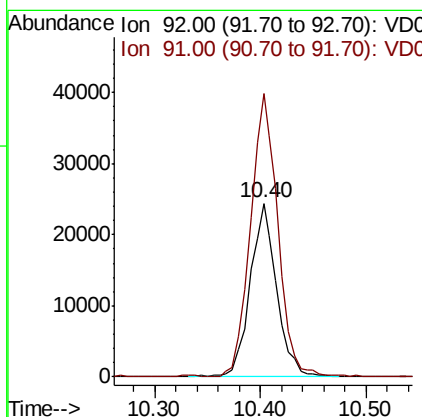
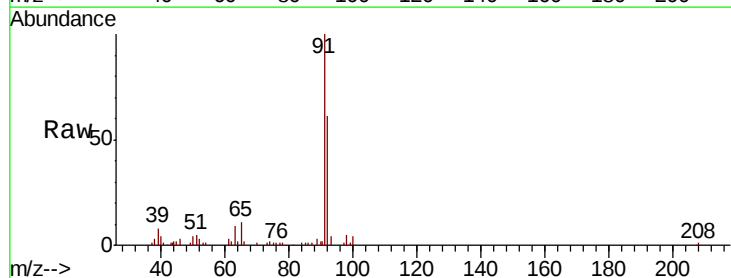
Instrument :  
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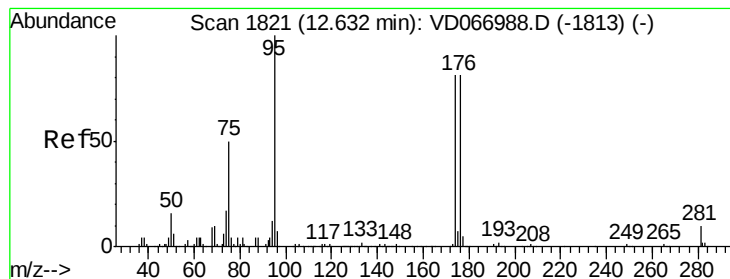
Tot Ion: 98 Resp: 864395  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.8 79.2



#52  
Toluene  
Concen: 3.493 ug/l  
RT: 10.40 min Scan# 1442  
Delta R.T. 0.00 min  
Lab File: VD067162.D  
Acq: 07 Oct 2020 19:41

Tgt Ion: 92 Resp: 42573  
Ion Ratio Lower Upper  
92 100  
91 168.6 135.1 202.7





#62

4-Bromofluorobenzene

Concen: 53.365 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067162.D

Acq: 07 Oct 2020 19:41

Instrument :

MSVOA\_D

ClientSampleId :

IDW-20201006

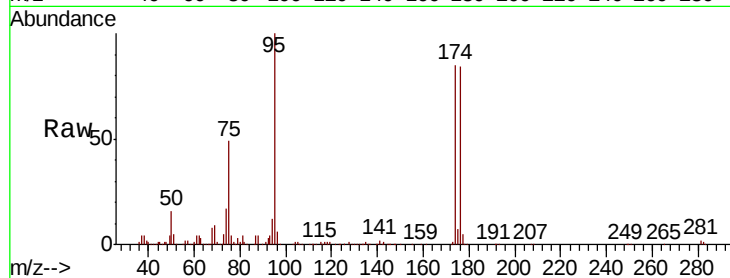
Tot Ion: 95 Resp: 315860

Ion Ratio Lower Upper

95 100

174 84.8 0.0 167.6

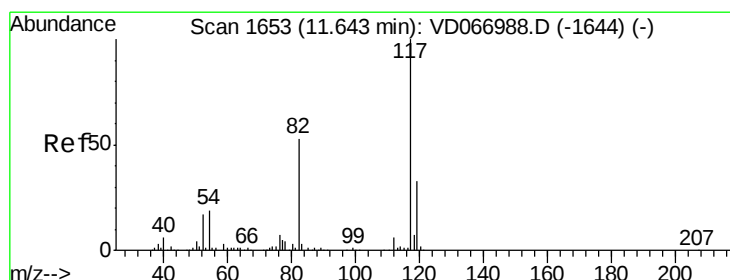
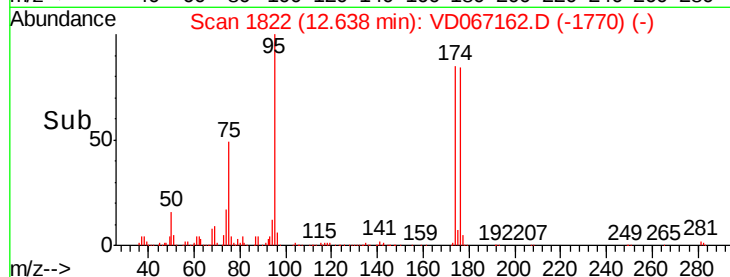
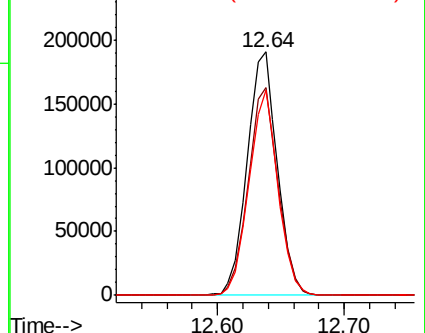
176 81.0 0.0 162.4



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: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD067162.D

Acq: 07 Oct 2020 19:41

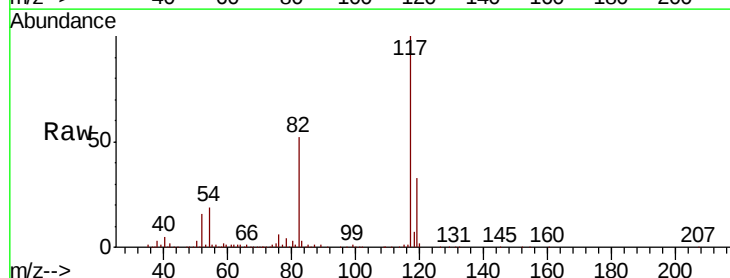
Tgt Ion: 117 Resp: 711859

Ion Ratio Lower Upper

117 100

82 52.1 42.6 63.8

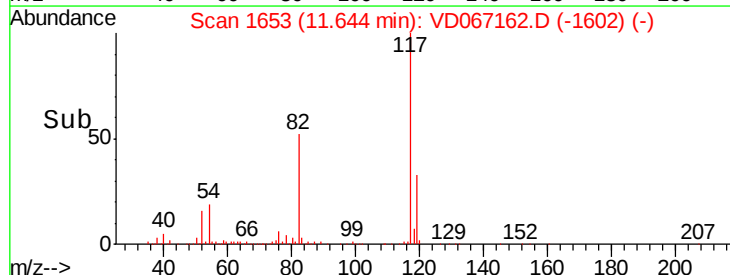
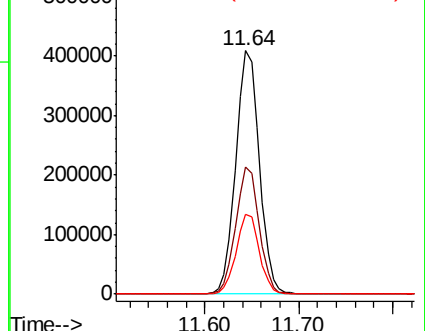
119 33.0 26.3 39.5

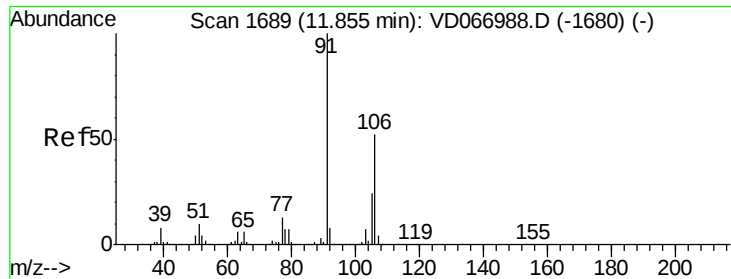


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

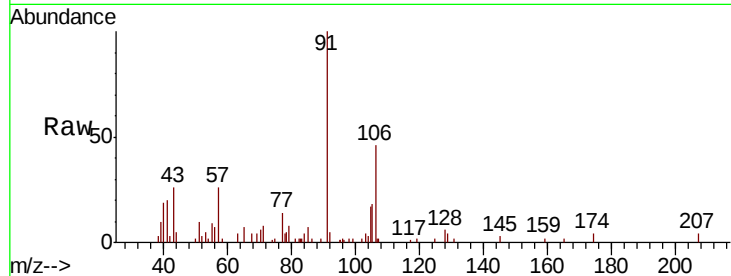




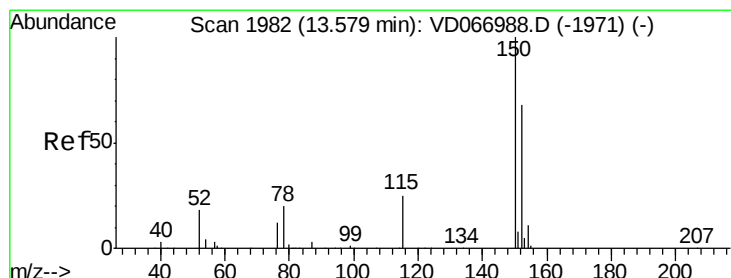
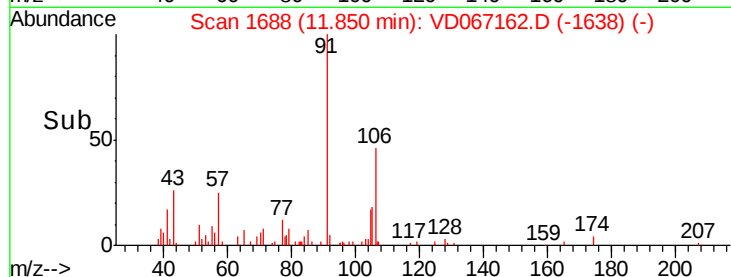
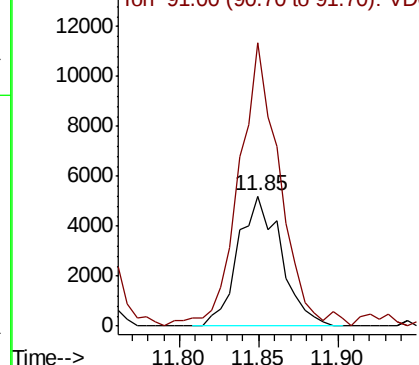
#68  
m/p-Xvlenes  
Concen: 1.042 ug/l  
RT: 11.85 min Scan# 1688  
Delta R.T. -0.01 min  
Lab File: VD067162.D  
Acq: 07 Oct 2020 19:41

Instrument :  
MSVOA\_D  
ClientSampleId :  
IDW-20201006

Tot Ion:106 Resp: 9854  
Ion Ratio Lower Upper  
106 100  
91 205.8 158.4 237.6

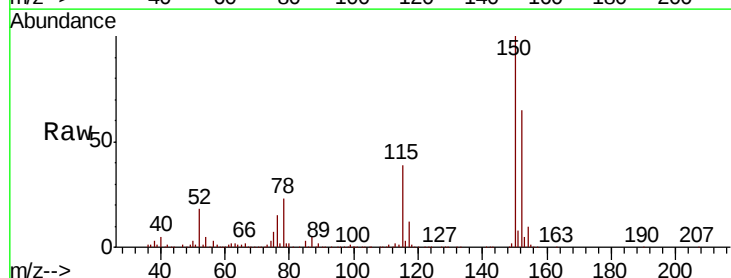


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): V

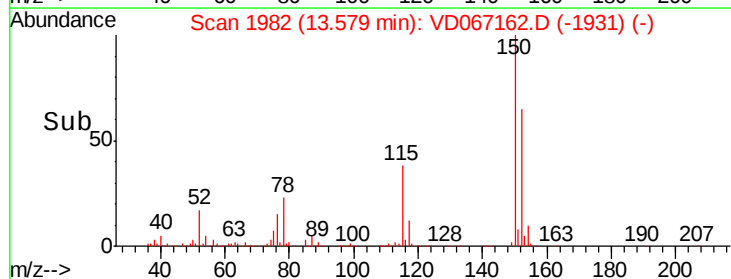
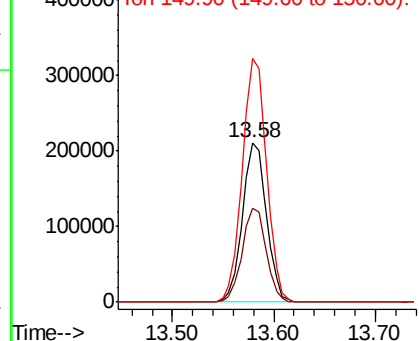


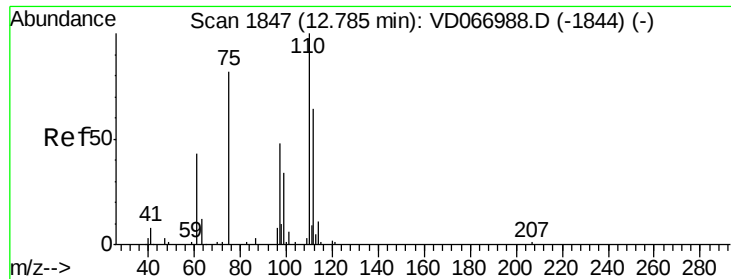
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067162.D  
Acq: 07 Oct 2020 19:41

Tgt Ion:152 Resp: 348186  
Ion Ratio Lower Upper  
152 100  
115 59.2 29.6 88.8  
150 154.0 0.0 344.8



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

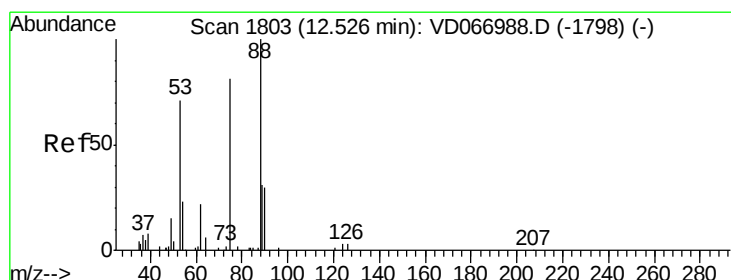
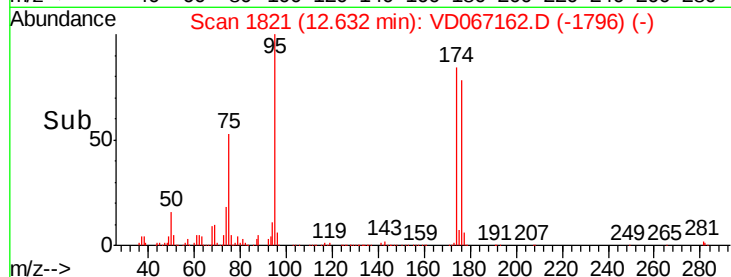
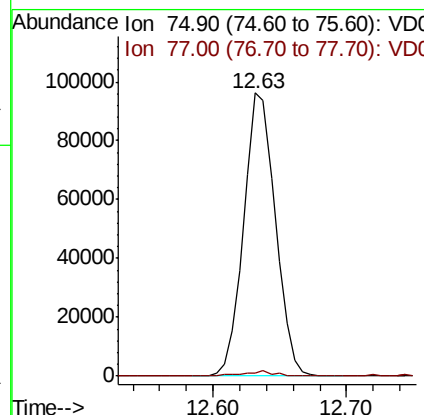
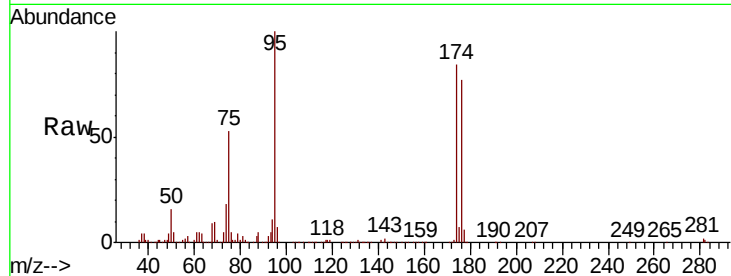




#76  
 1,2,3-Trichloropropane  
 Concen: 52.102 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. -0.15 min  
 Lab File: VD067162.D  
 Acq: 07 Oct 2020 19:41

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 IDW-20201006

Tot Ion: 75 Resp: 158015  
 Ion Ratio Lower Upper  
 75 100  
 77 1.8 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 129.896 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. 0.11 min  
 Lab File: VD067162.D  
 Acq: 07 Oct 2020 19:41

Tgt Ion: 75 Resp: 158015  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 73.8 110.6#  
 89 0.1 38.9 58.3#

