

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070120\  
 Data File : VD065917.D  
 Acq On : 01 Jul 2020 20:18  
 Operator : VA/SY  
 Sample : L3197-07  
 Misc : 7.38G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MH-2-VOC

Quant Time: Jul 02 04:48:36 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 26 19:16:07 2020  
 Response via : Initial Calibration

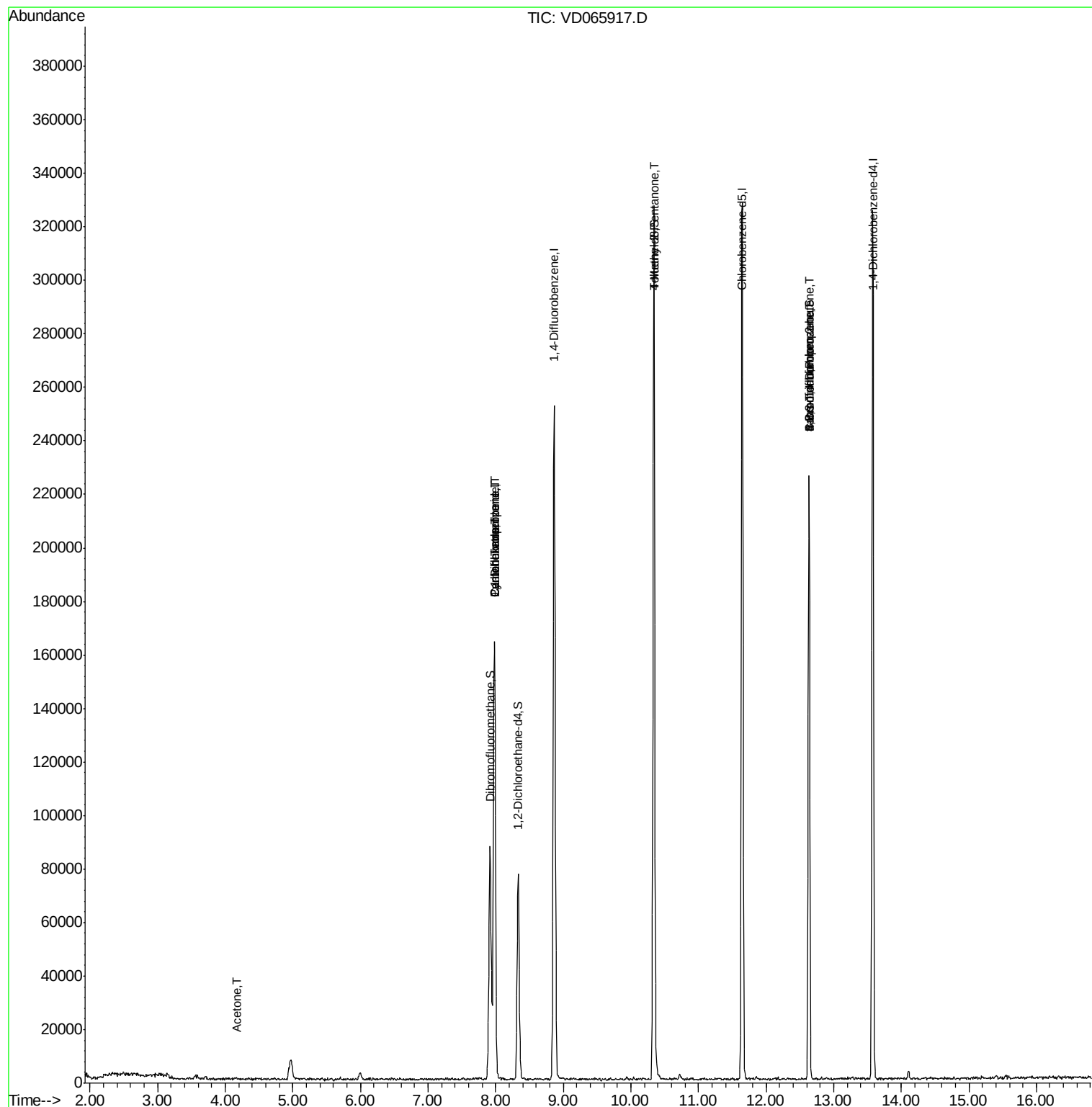
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 117311   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 209916   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 184405   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 81967    | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 62558    | 51.33     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 102.66% |          |
| 35) Dibromofluoromethane       | 7.91  | 113  | 61395    | 47.32     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 94.64%  |          |
| 50) Toluene-d8                 | 10.34 | 98   | 218564   | 44.78     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 89.56%  |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 66215    | 41.41     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 82.82%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 16) Acetone                    | 4.16  | 43   | 459      | 1.922     | ug/l #  | 33       |
| 20) Methylene Chloride         | 4.97  | 84   | 6219     | Below Cal | #       | 76       |
| 31) Cyclohexane                | 7.98  | 56   | 2793     | 1.279     | ug/l #  | 28       |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 9855     | 4.814     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 13406    | 6.065     | ug/l #  | 16       |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 1250     | 1.599     | ug/l #  | 1        |
| 71) Bromoform                  | 12.63 | 173  | 737      | 1.018     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 38489    | 53.664    | ug/l #  | 1        |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 38489    | 115.288   | ug/l #  | 9        |

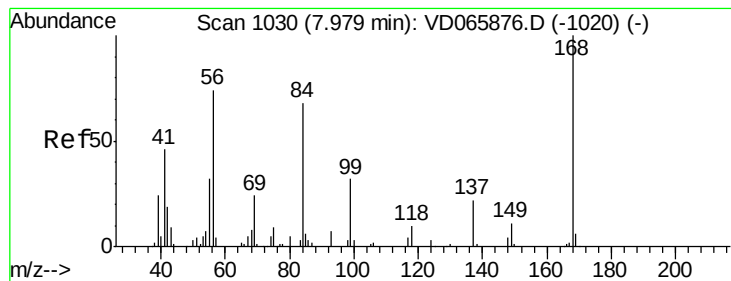
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 26 19:16:07 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD065917.D

Acq: 01 Jul 2020 20:18

Instrument :

MSVOA\_D

ClientSampleId :

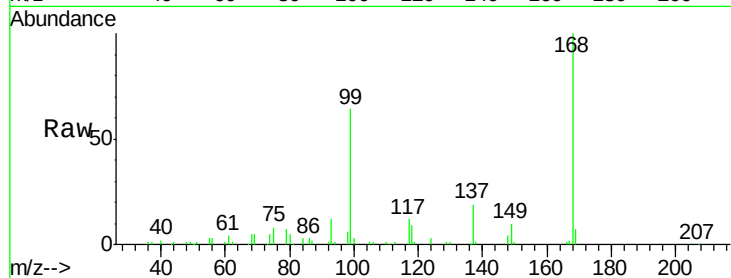
MH-2-VOC

Tot Ion:168 Resp: 117311

Ion Ratio Lower Upper

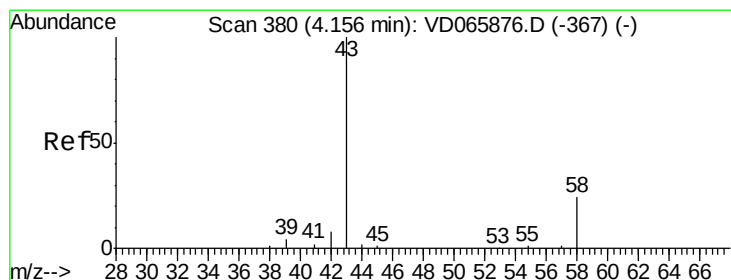
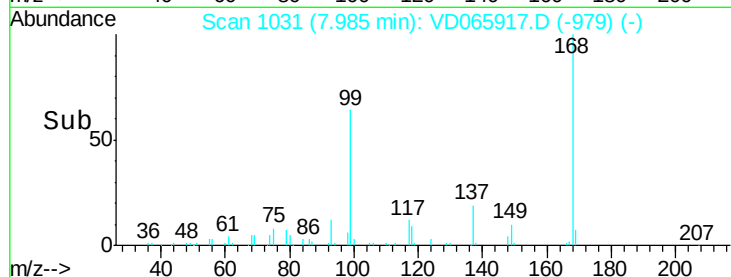
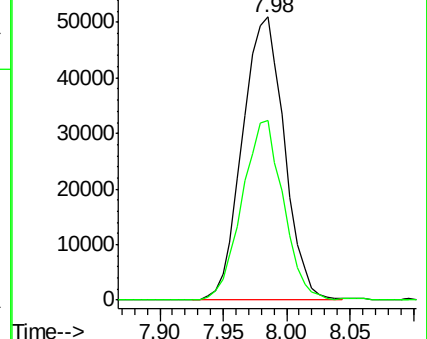
168 100

99 63.6 51.3 76.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 1.922 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD065917.D

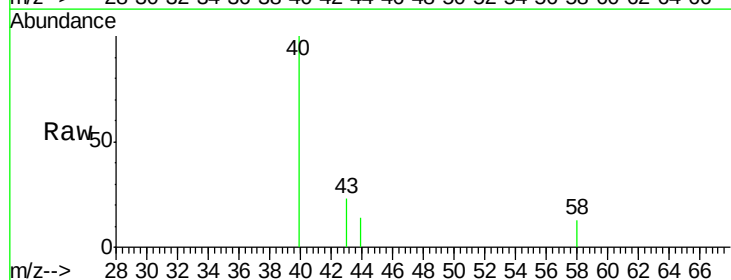
Acq: 01 Jul 2020 20:18

Tgt Ion: 43 Resp: 459

Ion Ratio Lower Upper

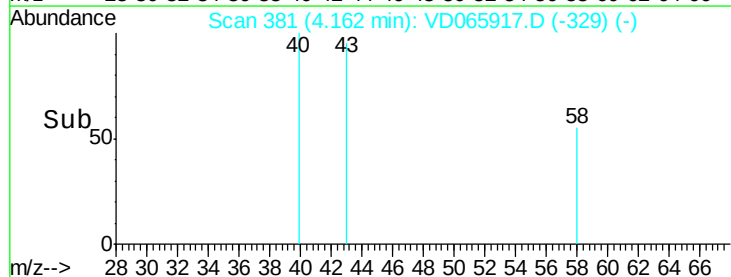
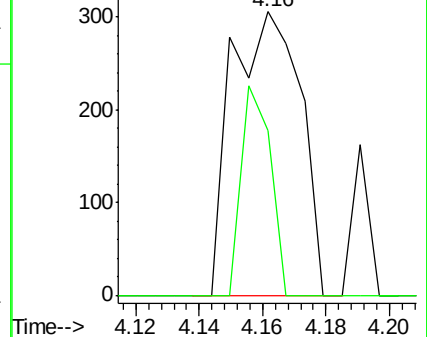
43 100

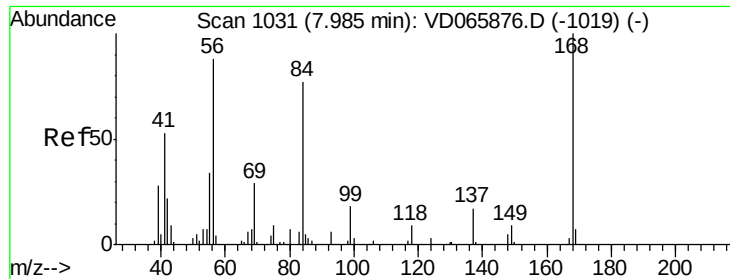
58 57.8 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

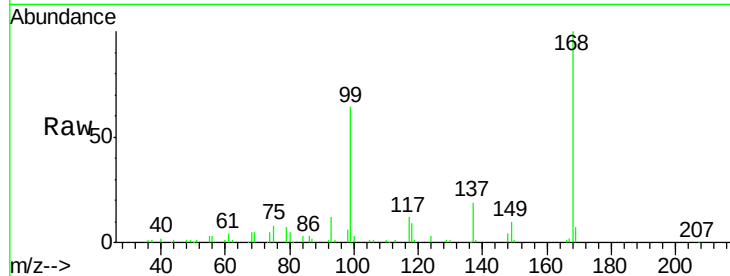




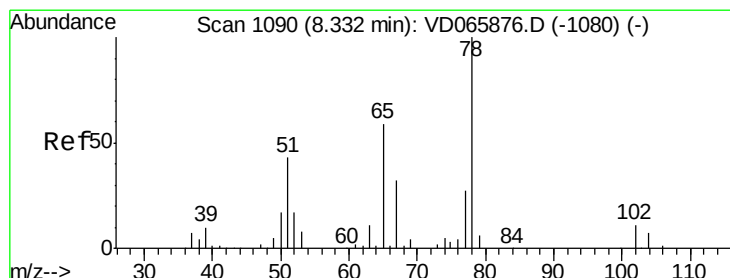
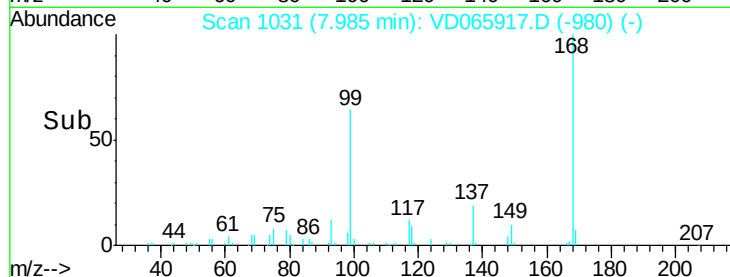
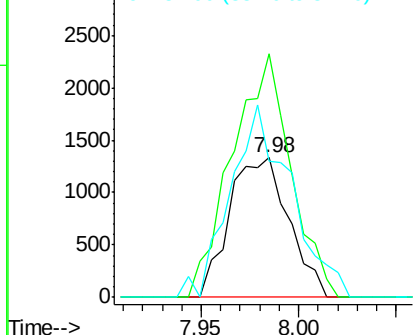
#31  
Cyclohexane  
Concen: 1.279 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD065917.D  
Acq: 01 Jul 2020 20:18

Instrument :  
MSVOA\_D  
ClientSampleId :  
MH-2-VOC

Tot Ion: 56 Resp: 2793  
Ion Ratio Lower Upper  
56 100  
69 174.2 26.2 39.4#  
84 82.4 70.3 105.5

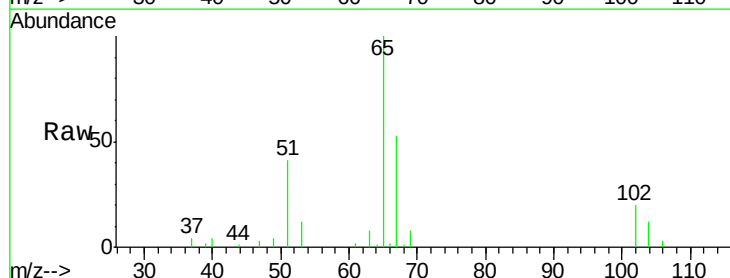


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

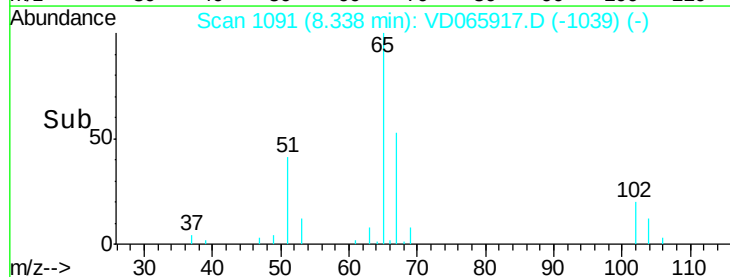
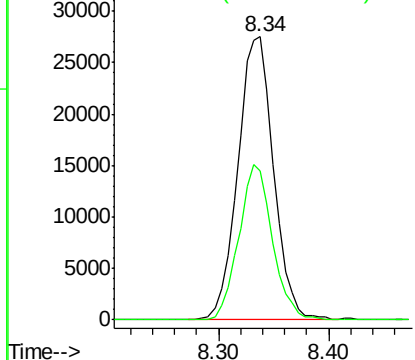


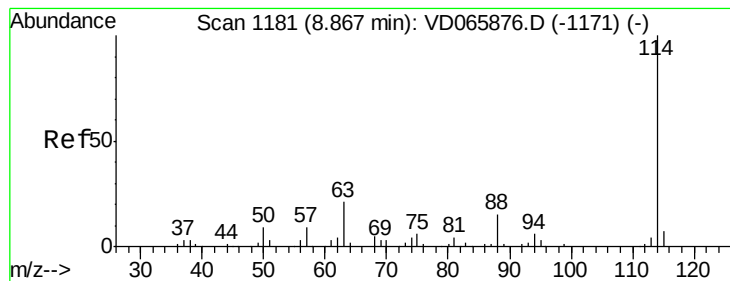
#33  
1,2-Dichloroethane-d4  
Concen: 51.330 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. 0.01 min  
Lab File: VD065917.D  
Acq: 01 Jul 2020 20:18

Tgt Ion: 65 Resp: 62558  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 103.0



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. 0.00 min

Lab File: VD065917.D

Acq: 01 Jul 2020 20:18

Instrument :

MSVOA\_D

ClientSampled :

MH-2-VOC

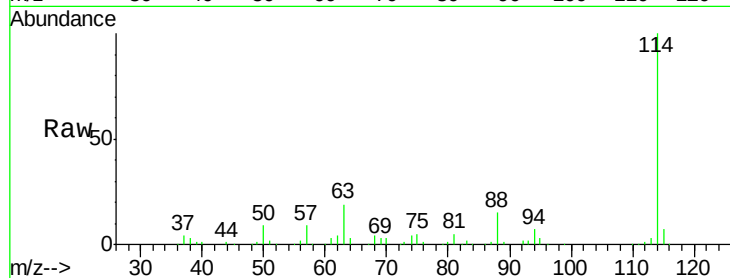
Tot Ion:114 Resp: 209916

Ion Ratio Lower Upper

114 100

63 18.6 0.0 42.6

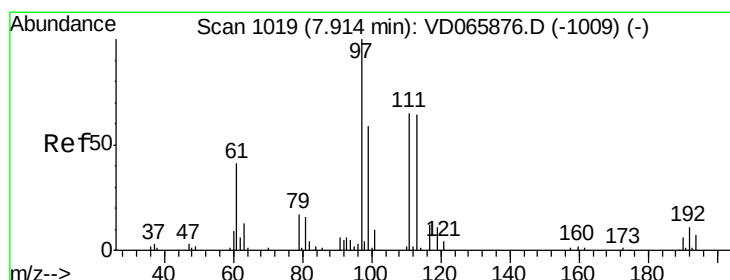
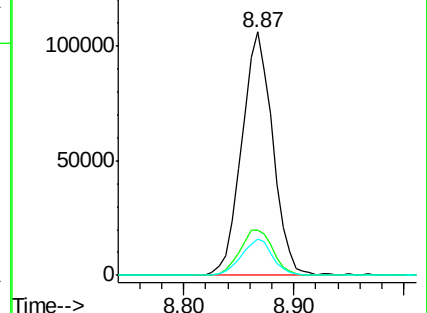
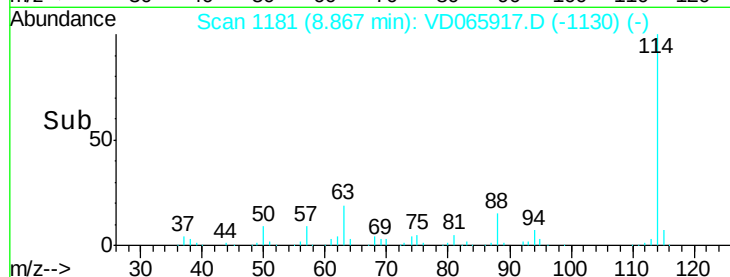
88 15.1 0.0 29.0



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: 47.318 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD065917.D

Acq: 01 Jul 2020 20:18

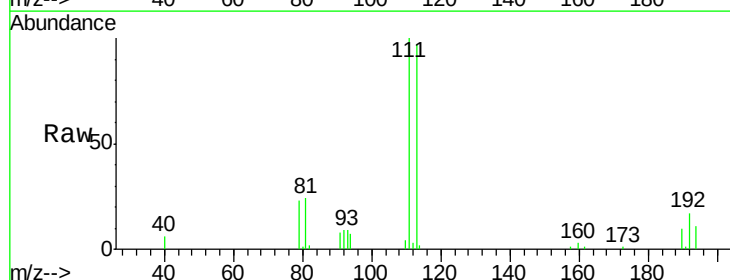
Tgt Ion:113 Resp: 61395

Ion Ratio Lower Upper

113 100

111 102.6 81.0 121.6

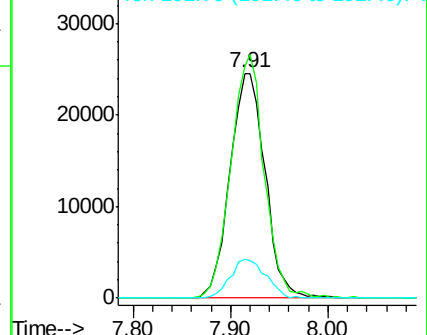
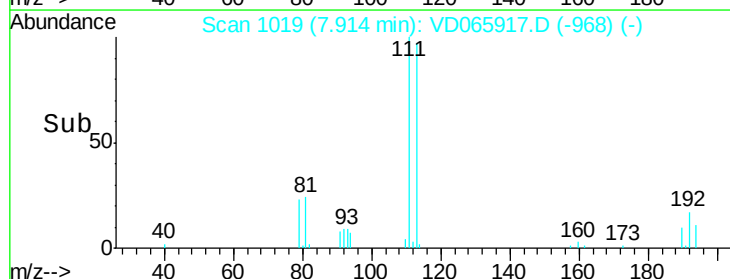
192 17.5 15.2 22.8

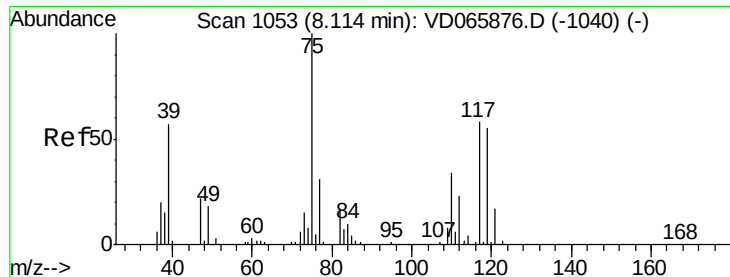


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.814 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD065917.D

Acq: 01 Jul 2020 20:18

Instrument :

MSVOA\_D

ClientSampleId :

MH-2-VOC

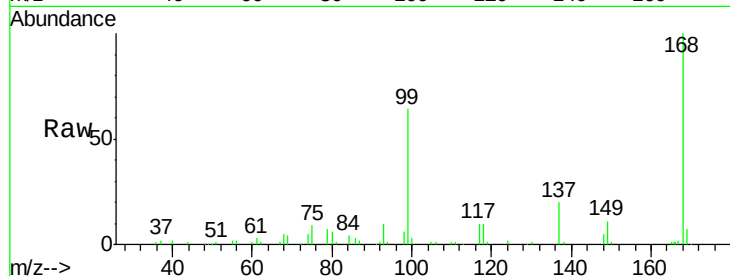
Tot Ion: 75 Resp: 9855

Ion Ratio Lower Upper

75 100

110 7.7 16.8 50.4#

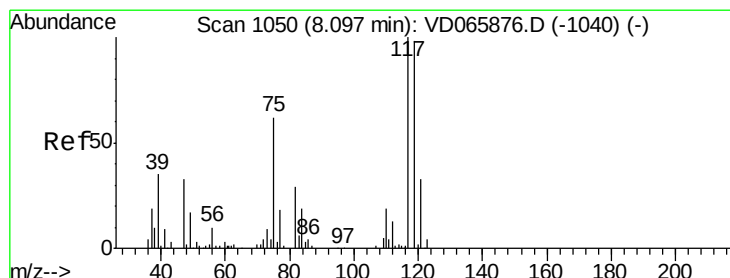
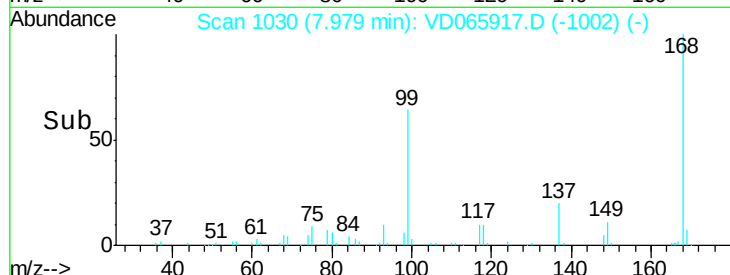
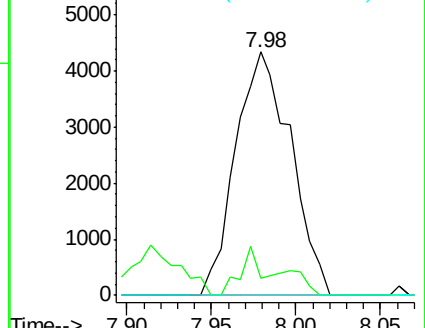
77 0.0 24.0 36.0#



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: 6.065 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065917.D

Acq: 01 Jul 2020 20:18

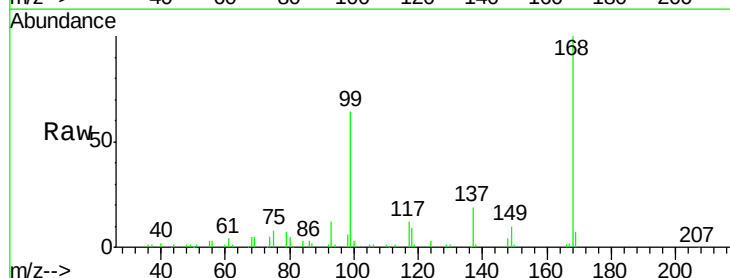
Tgt Ion: 117 Resp: 13406

Ion Ratio Lower Upper

117 100

119 6.9 78.6 117.8#

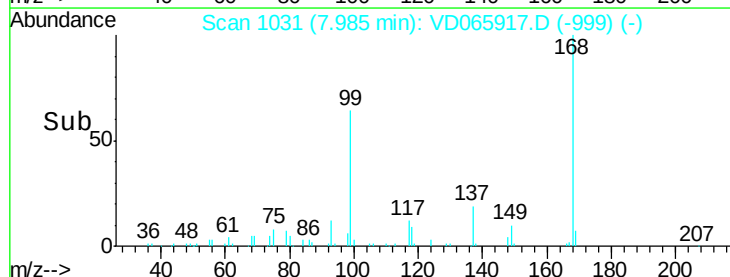
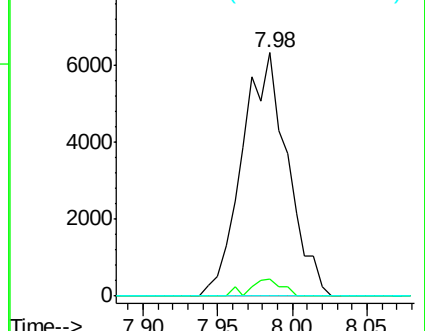
121 0.0 26.5 39.7#

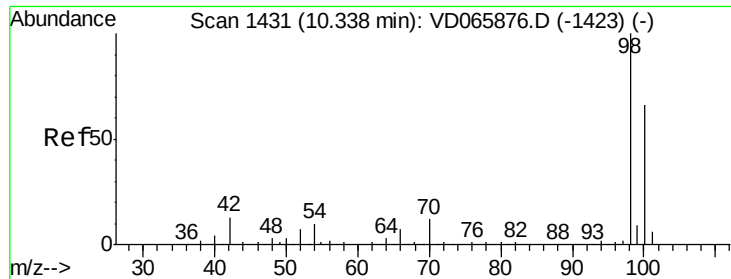


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

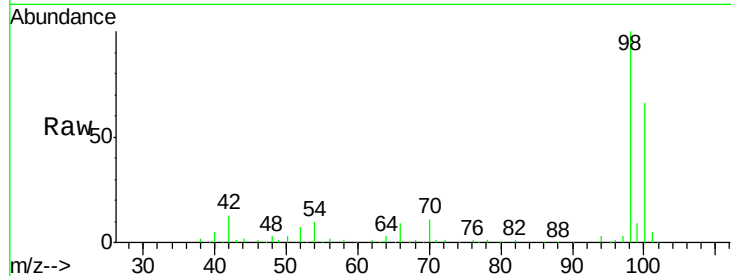




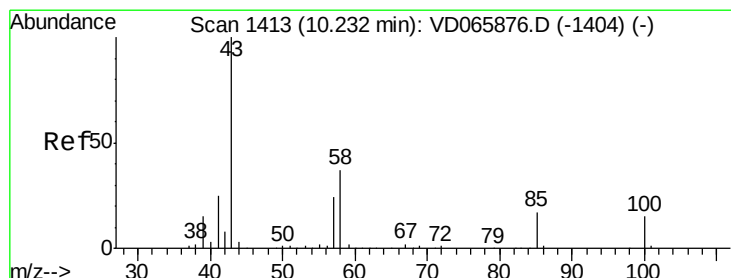
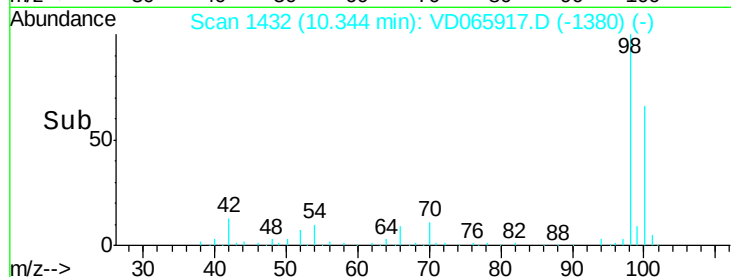
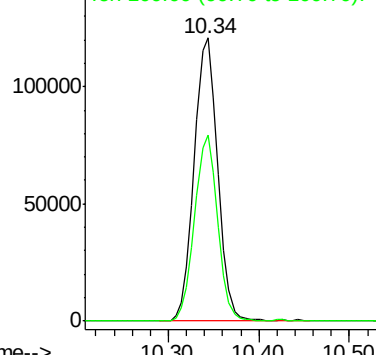
#50  
Toluene-d8  
Concen: 44.781 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.01 min  
Lab File: VD065917.D  
Acq: 01 Jul 2020 20:18

Instrument :  
MSVOA\_D  
ClientSampleId :  
MH-2-VOC

Tot Ion: 98 Resp: 218564  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.3 78.5

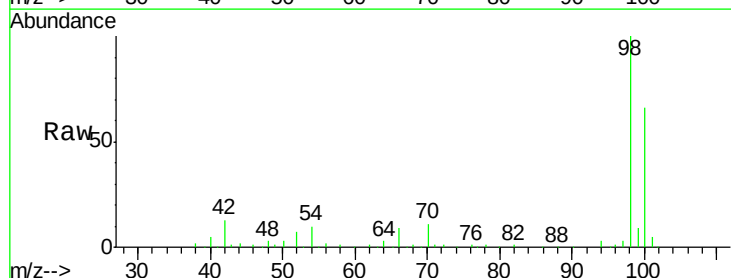


Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VDC

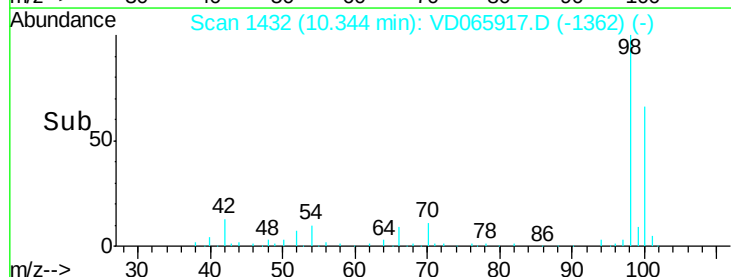
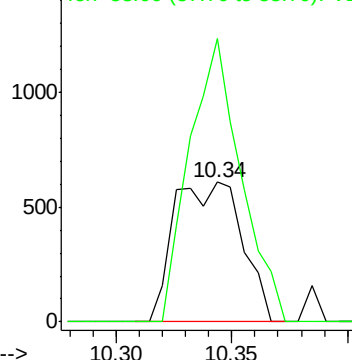


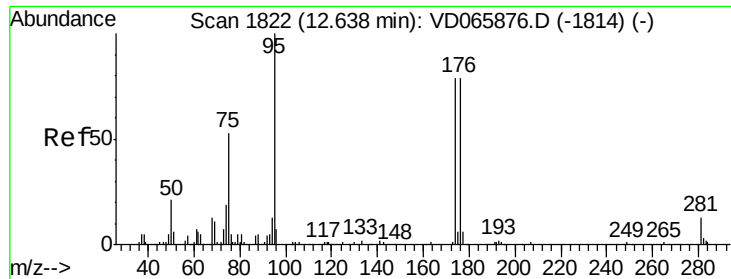
#51  
4-Methyl-2-Pentanone  
Concen: 1.599 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.11 min  
Lab File: VD065917.D  
Acq: 01 Jul 2020 20:18

Tgt Ion: 43 Resp: 1250  
Ion Ratio Lower Upper  
43 100  
58 153.0 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 41.412 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065917.D

Acq: 01 Jul 2020 20:18

Instrument :

MSVOA\_D

ClientSampleId :

MH-2-VOC

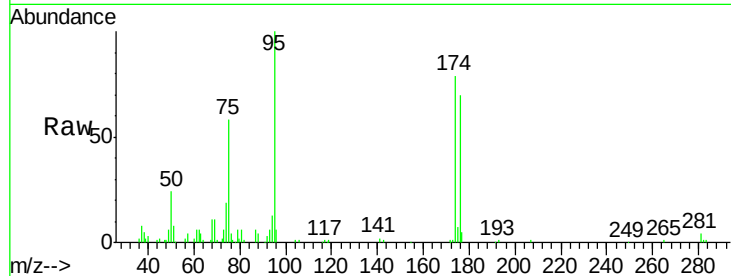
Tot Ion: 95 Resp: 66215

Ion Ratio Lower Upper

95 100

174 83.0 0.0 158.4

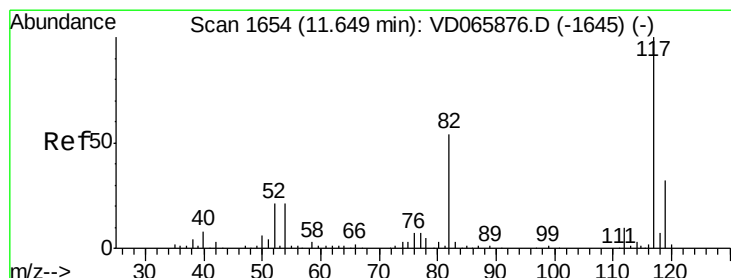
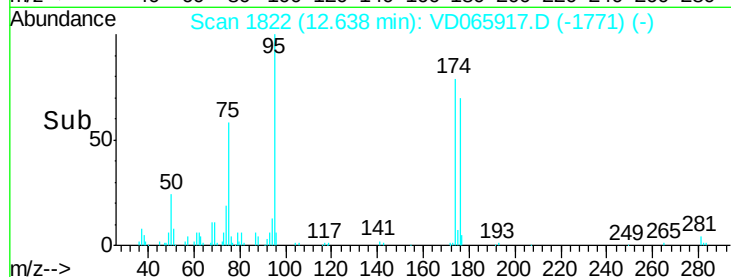
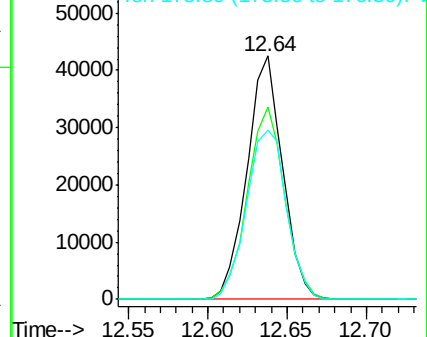
176 78.5 0.0 156.0



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: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD065917.D

Acq: 01 Jul 2020 20:18

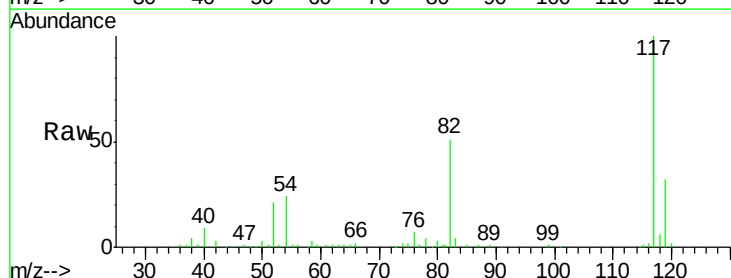
Tgt Ion: 117 Resp: 184405

Ion Ratio Lower Upper

117 100

82 51.1 43.6 65.4

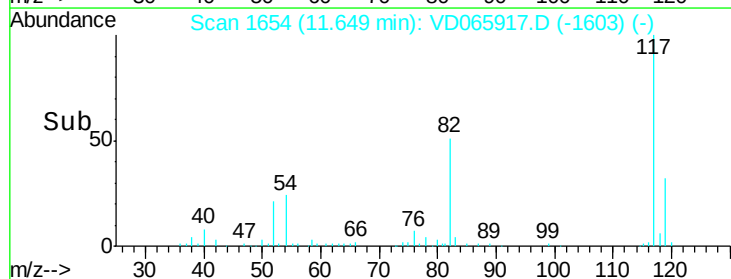
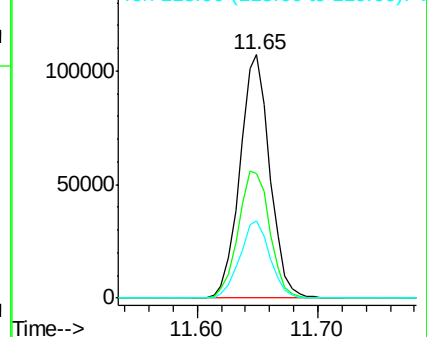
119 32.0 25.9 38.9



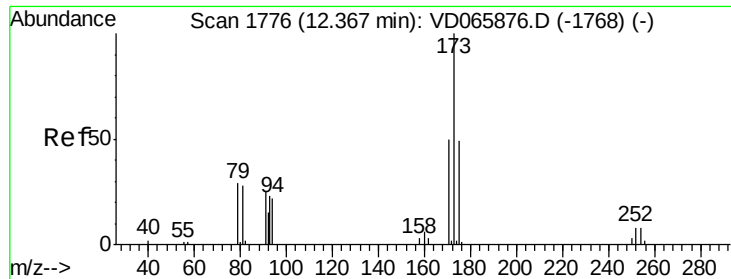
Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



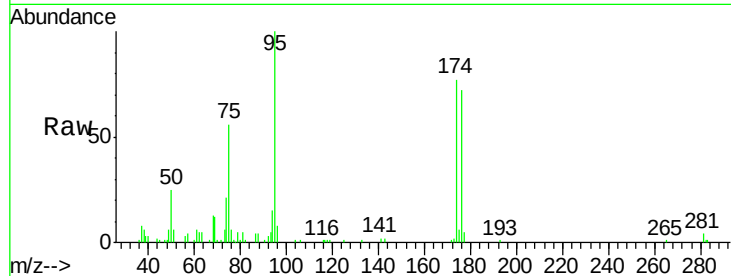




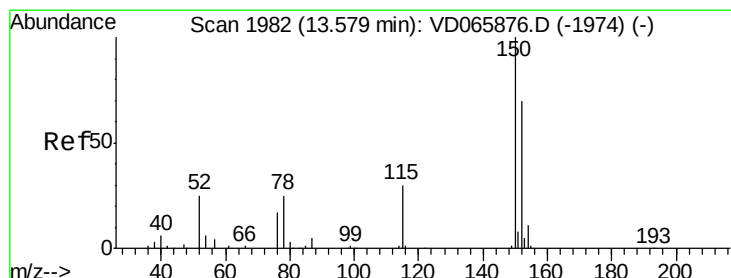
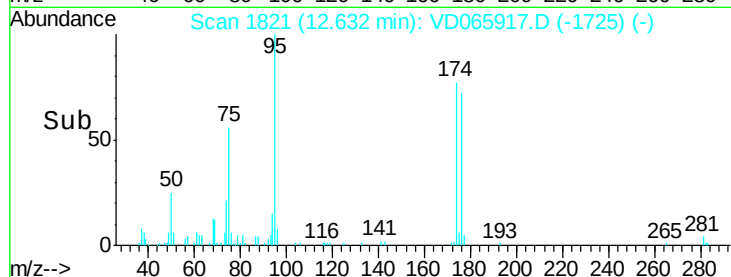
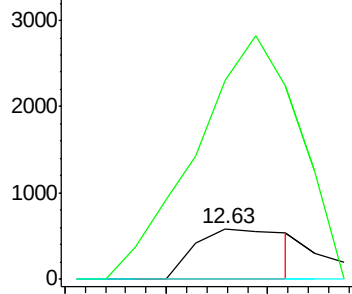
#71  
Bromoform  
Concen: 1.018 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. 0.26 min  
Lab File: VD065917.D  
Acq: 01 Jul 2020 20:18

Instrument :  
MSVOA\_D  
ClientSampleId :  
MH-2-VOC

Tot Ion:173 Resp: 737  
Ion Ratio Lower Upper  
173 100  
175 483.3 23.9 71.8#  
254 0.0 0.0 0.0

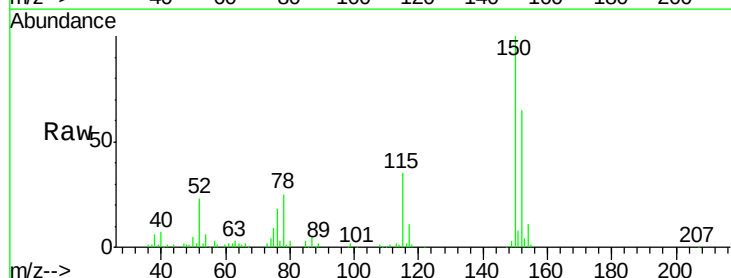


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

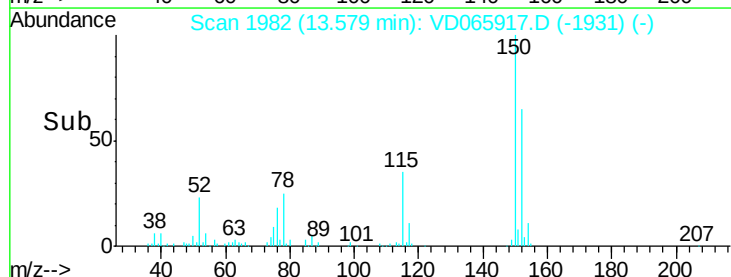
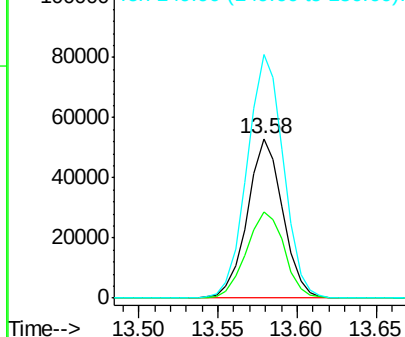


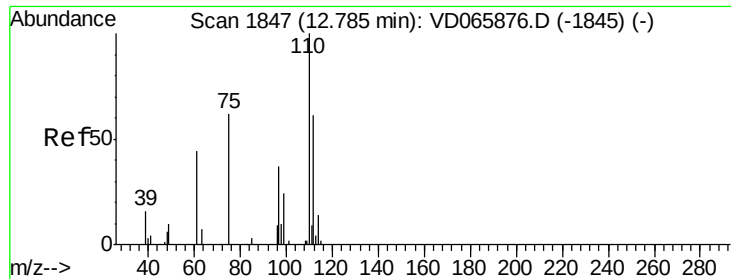
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD065917.D  
Acq: 01 Jul 2020 20:18

Tgt Ion:152 Resp: 81967  
Ion Ratio Lower Upper  
152 100  
115 58.1 29.7 89.1  
150 157.7 0.0 346.2



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: 53.664 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065917.D

Acq: 01 Jul 2020 20:18

Instrument :

MSVOA\_D

ClientSampleId :

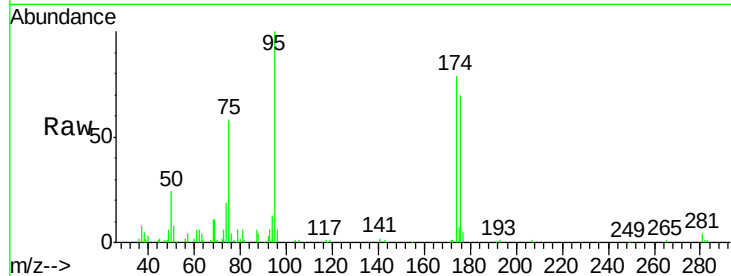
MH-2-VOC

Tot Ion: 75 Resp: 38489

Ion Ratio Lower Upper

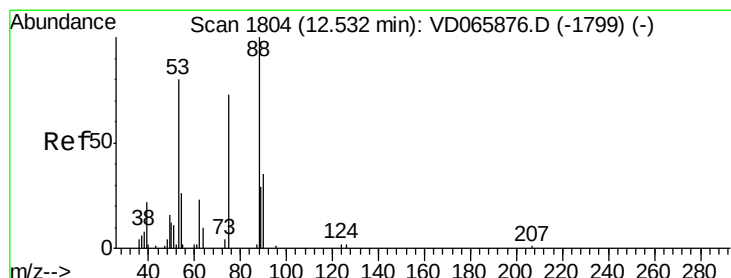
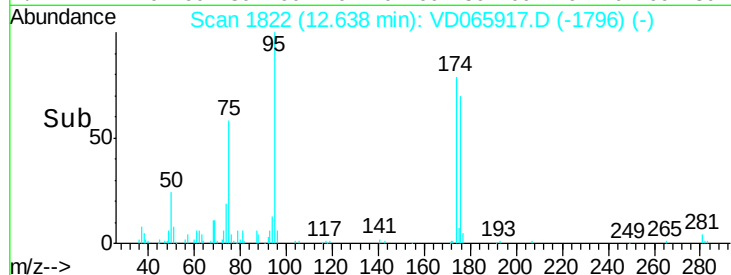
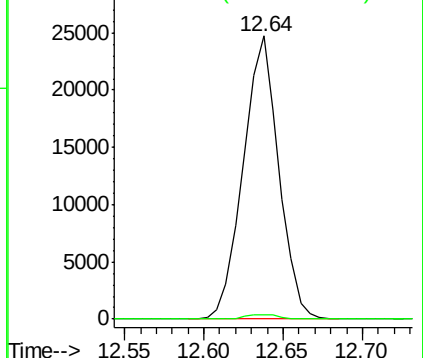
75 100

77 1.5 168.5 505.5#



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: 115.288 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065917.D

Acq: 01 Jul 2020 20:18

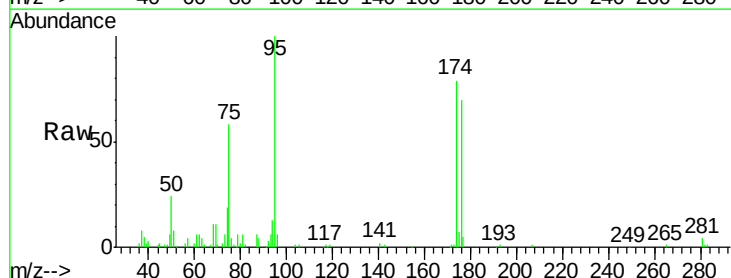
Tgt Ion: 75 Resp: 38489

Ion Ratio Lower Upper

75 100

53 0.0 80.6 121.0#

89 0.0 36.5 54.7#



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

