

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100720\  
 Data File : VD067170.D  
 Acq On : 08 Oct 2020 00:40  
 Operator : VA/SY  
 Sample : L4292-07  
 Misc : 7.60G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PAV-B13-100620-DP

Quant Time: Oct 08 07:29:16 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

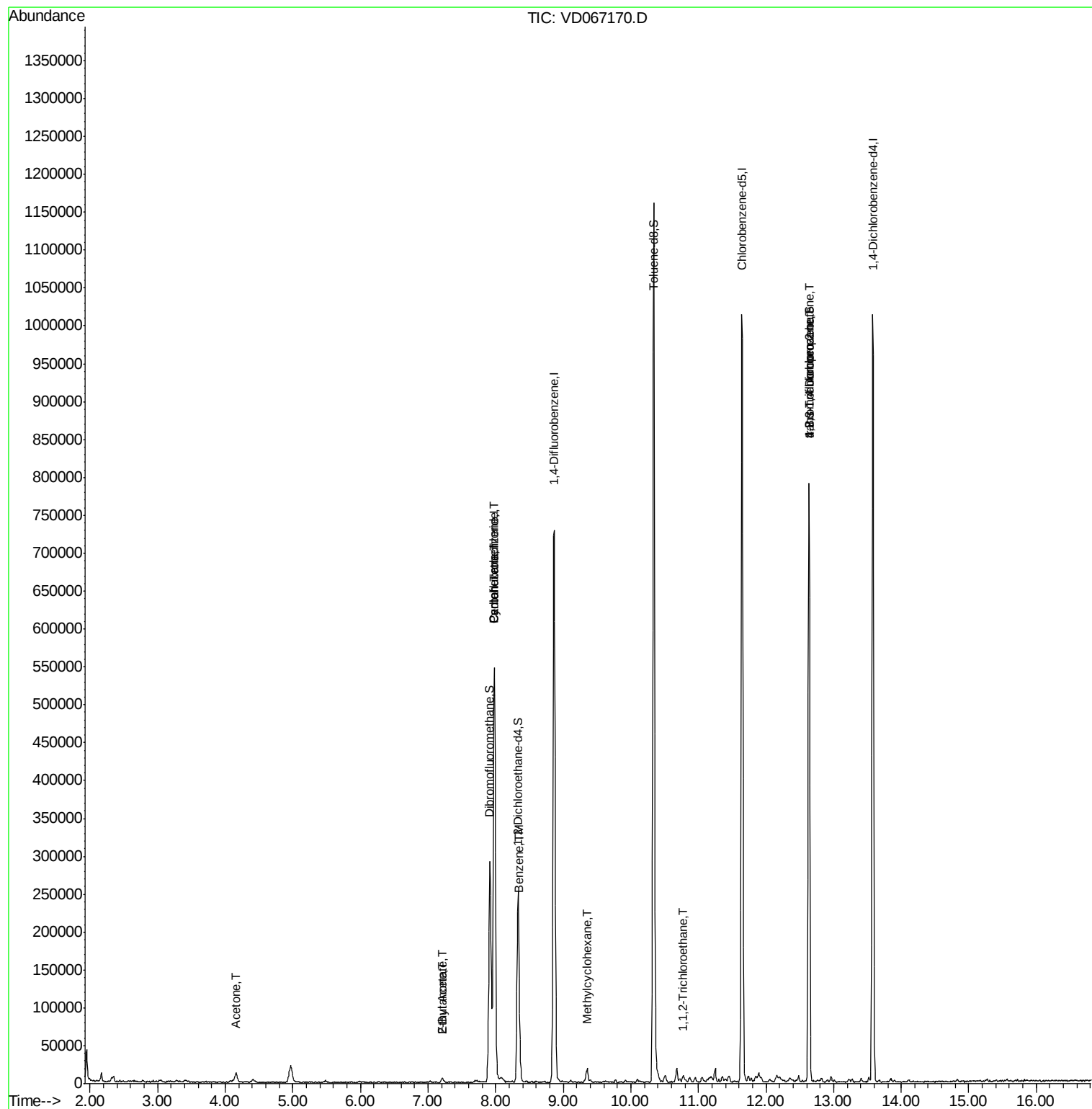
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98   | 168  | 410140   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87   | 114  | 664550   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.64  | 117  | 630308   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58  | 152  | 282323   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33   | 65   | 198537   | 50.26     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 100.52% |          |
| 35) Dibromofluoromethane       | 7.92   | 113  | 214076   | 49.21     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 98.42%  |          |
| 50) Toluene-d8                 | 10.34  | 98   | 786050   | 49.58     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 99.16%  |          |
| 62) 4-Bromofluorobenzene       | 12.64  | 95   | 259903   | 48.29     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 96.58%  |          |
| Target Compounds               |        |      |          |           |         |          |
|                                |        |      |          |           | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 1.99   | 85   | 1597     | Below Cal |         | 76       |
| 5) Bromomethane                | 2.79   | 94   | 938      | Below Cal | #       | 54       |
| 11) Tert butyl alcohol         | 5.22   | 59   | 53       | Below Cal | #       | 72       |
| 16) Acetone                    | 4.16   | 43   | 20429    | 33.877    | ug/l    | 93       |
| 20) Methylene Chloride         | 4.97   | 84   | 19005    | Below Cal |         | 89       |
| 25) 2-Butanone                 | 7.22   | 43   | 5443     | 6.366     | ug/l    | 95       |
| 26) 2,2-Dichloropropane        | 7.20   | 77   | 867      | Below Cal | #       | 53       |
| 31) Cyclohexane                | 7.98   | 56   | 10704    | 1.804     | ug/l    | # 42     |
| 37) Ethyl Acetate              | 7.22   | 43   | 5443     | 2.536     | ug/l    | # 74     |
| 38) Carbon Tetrachloride       | 7.98   | 117  | 42848    | 6.393     | ug/l    | # 16     |
| 39) Methylcyclohexane          | 9.36   | 83   | 7169     | 1.095     | ug/l    | 93       |
| 40) Benzene                    | 8.35   | 78   | 23152    | 1.346     | ug/l    | 99       |
| 55) 1,1,2-Trichloroethane      | 10.77  | 97   | 3701     | 1.146     | ug/l    | # 18     |
| 76) 1,2,3-Trichloropropane     | 12.64  | 75   | 131872   | 53.626    | ug/l    | # 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64  | 75   | 131872   | 133.695   | ug/l    | # 12     |

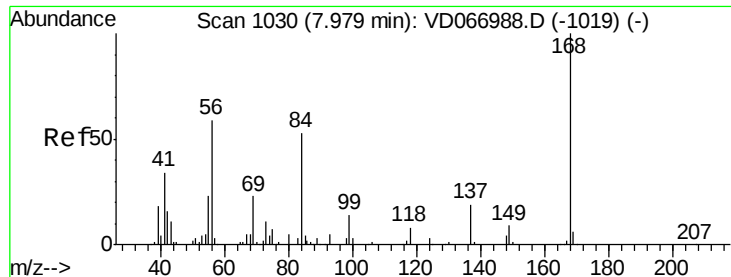
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100720\  
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Operator : VA/SY  
Sample : L4292-07  
Misc : 7.60G/5.00ml/MSVOA D/SOIL  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
PAV-B13-100620-DP

Quant Time: Oct 08 07:29:16 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
Quant Title : SW846 8260  
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# 1031

Delta R.T. 0.01 min

Lab File: VD067170.D

Acq: 08 Oct 2020 00:40

Instrument :

MSVOA\_D

ClientSampleId :

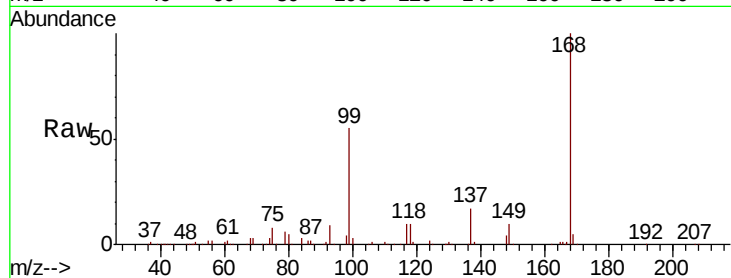
PAV-B13-100620-DP

Tot Ion:168 Resp: 410140

Ion Ratio Lower Upper

168 100

99 54.5 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

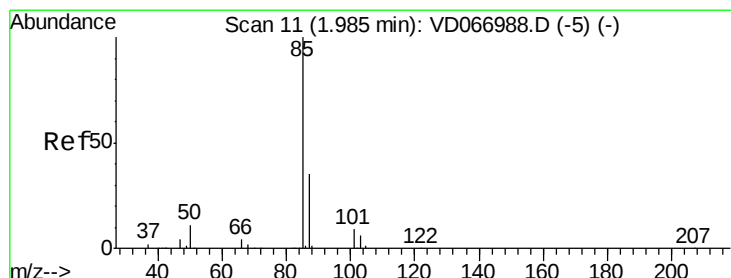
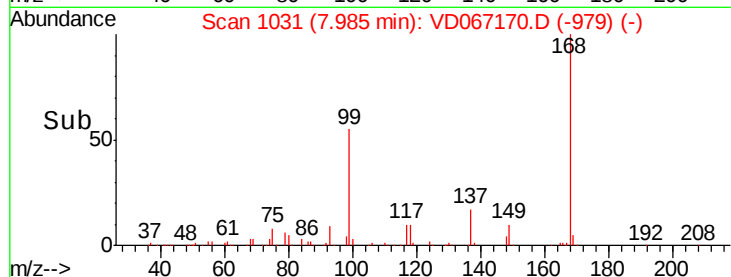
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067170.D

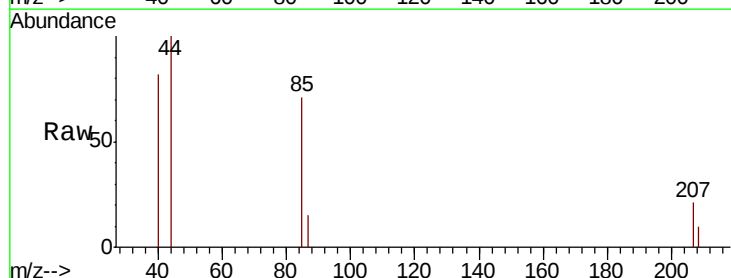
Acq: 08 Oct 2020 00:40

Tgt Ion: 85 Resp: 1597

Ion Ratio Lower Upper

85 100

87 20.8 17.3 52.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

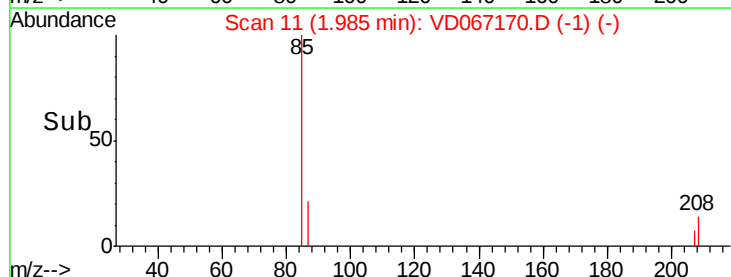
1500

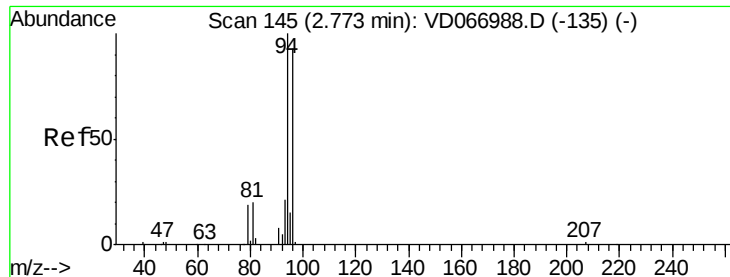
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067170.D

Acq: 08 Oct 2020 00:40

Instrument :

MSVOA\_D

ClientSampleId :

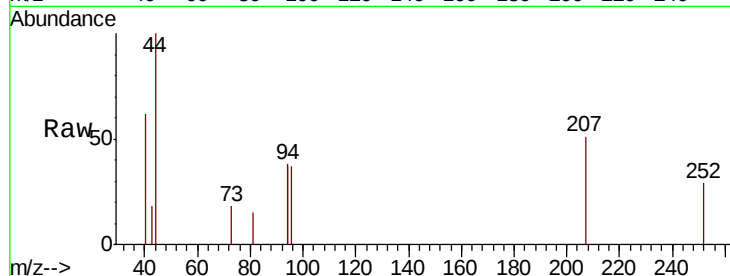
PAV-B13-100620-DP

Tot Ion: 94 Resp: 938

Ion Ratio Lower Upper

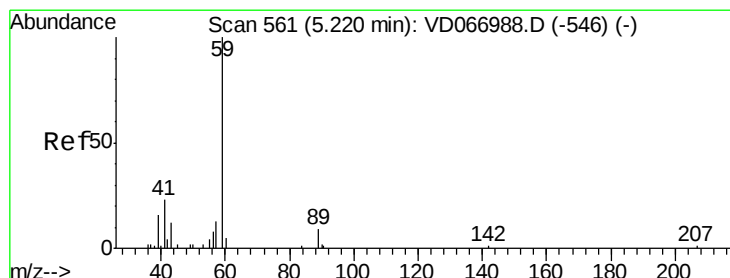
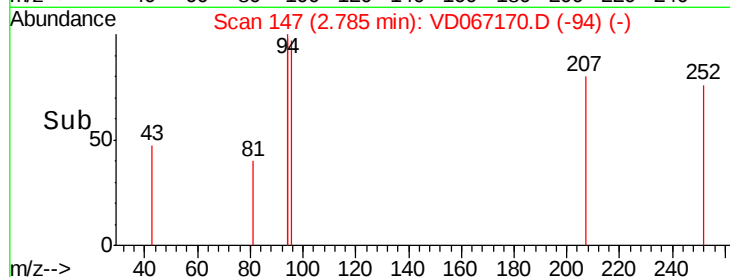
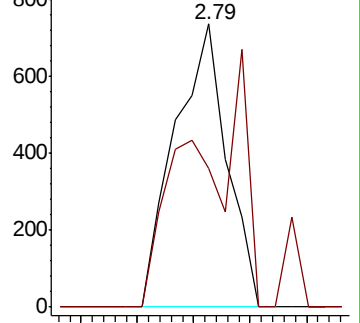
94 100

96 48.8 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.22 min Scan# 561

Delta R.T. 0.00 min

Lab File: VD067170.D

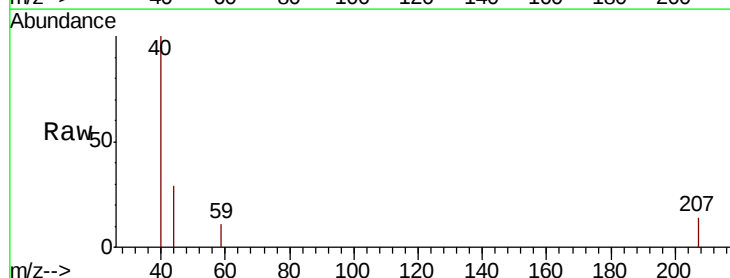
Acq: 08 Oct 2020 00:40

Tgt Ion: 59 Resp: 53

Ion Ratio Lower Upper

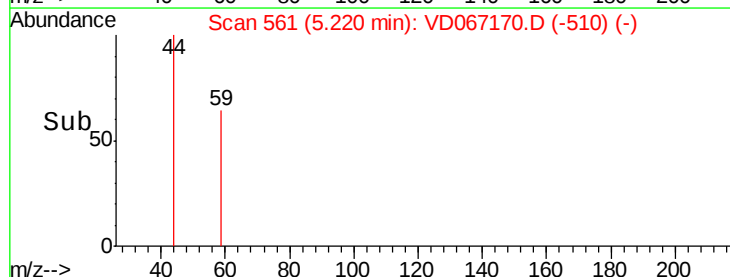
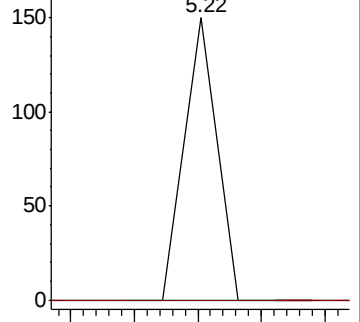
59 100

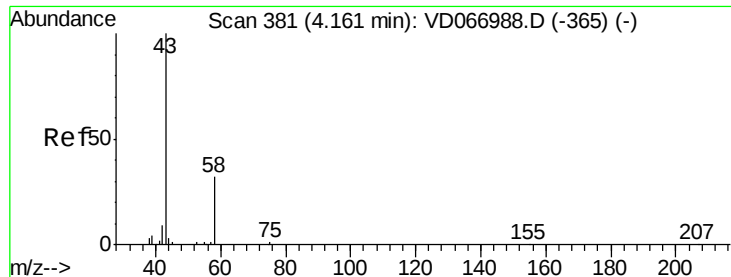
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 33.877 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD067170.D

Acq: 08 Oct 2020 00:40

Instrument :

MSVOA\_D

ClientSampleId :

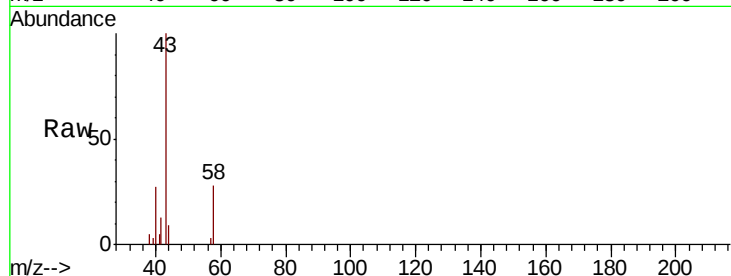
PAV-B13-100620-DP

Tot Ion: 43 Resp: 20429

Ion Ratio Lower Upper

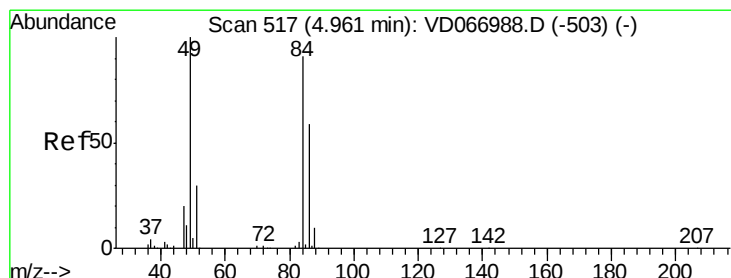
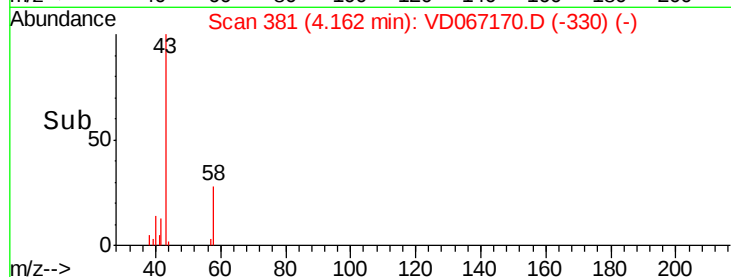
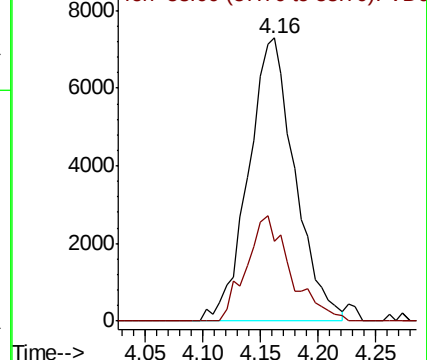
43 100

58 28.2 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: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067170.D

Acq: 08 Oct 2020 00:40

Tgt Ion: 84 Resp: 19005

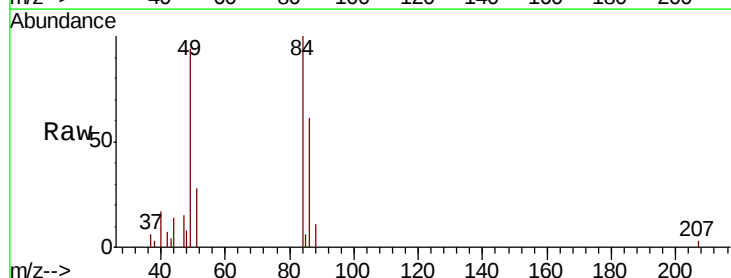
Ion Ratio Lower Upper

84 100

49 93.6 88.2 132.2

51 28.0 26.6 39.8

86 61.5 52.1 78.1

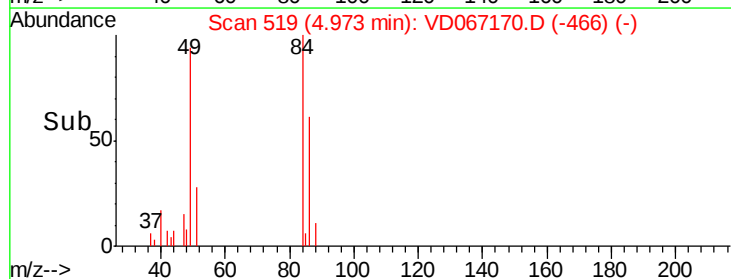
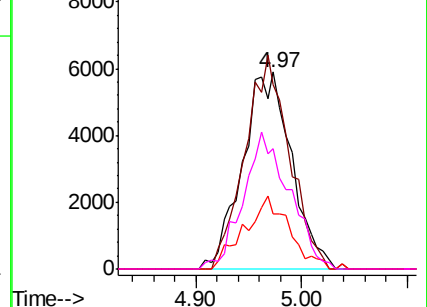


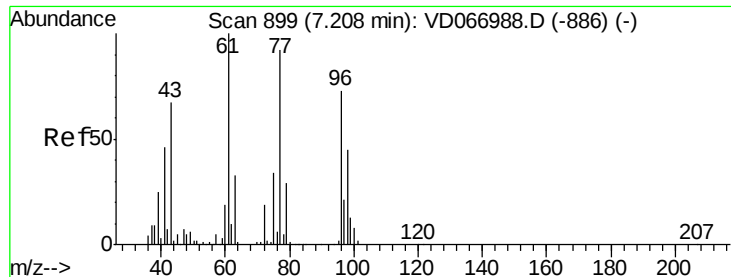
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#25

2-Butanone

Concen: 6.366 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD067170.D

Acq: 08 Oct 2020 00:40

Instrument :

MSVOA\_D

ClientSampleId :

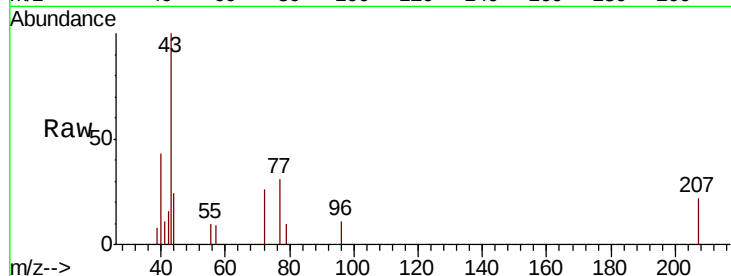
PAV-B13-100620-DP

Tot Ion: 43 Resp: 5443

Ion Ratio Lower Upper

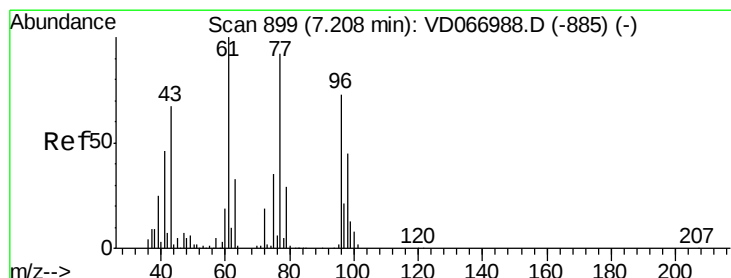
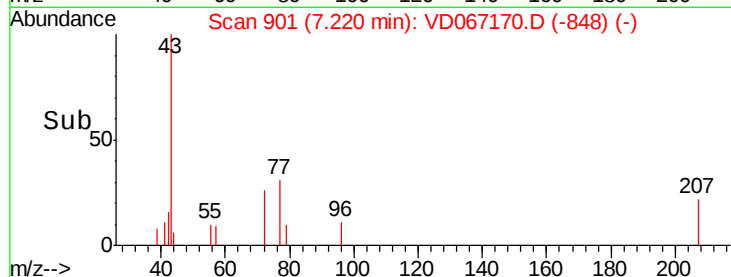
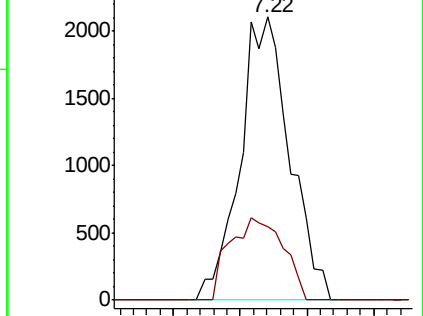
43 100

72 25.8 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD067170.D

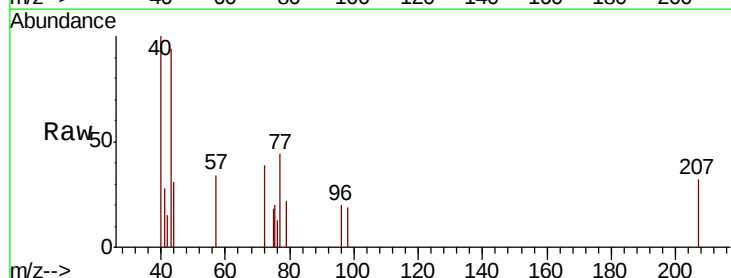
Acq: 08 Oct 2020 00:40

Tgt Ion: 77 Resp: 867

Ion Ratio Lower Upper

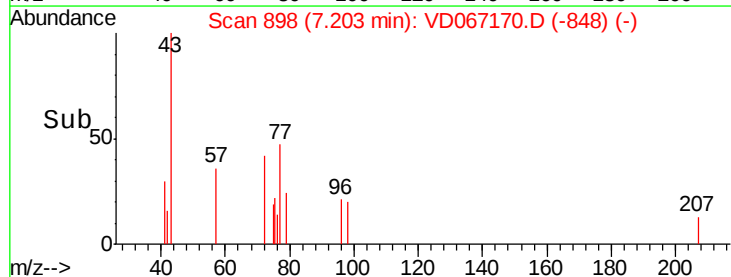
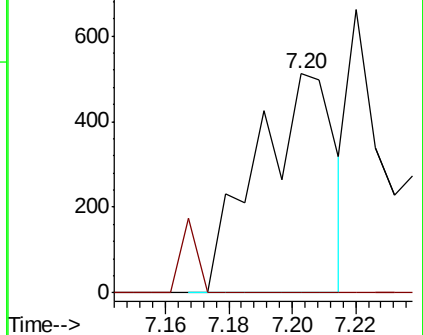
77 100

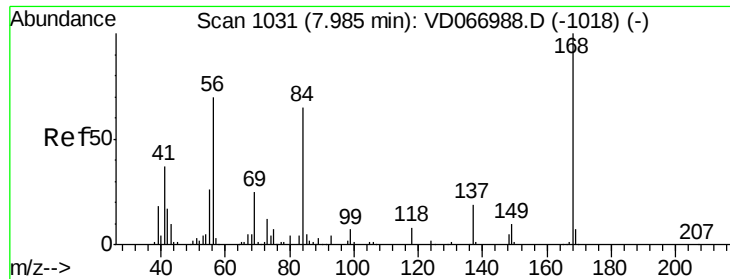
97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

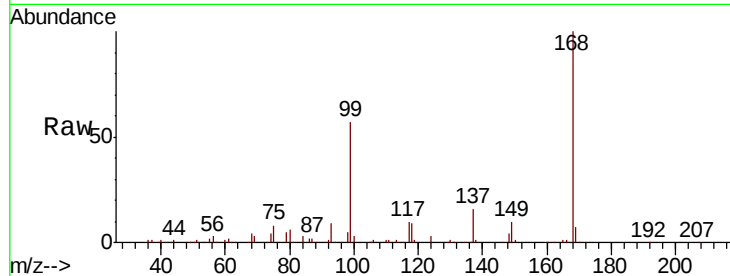




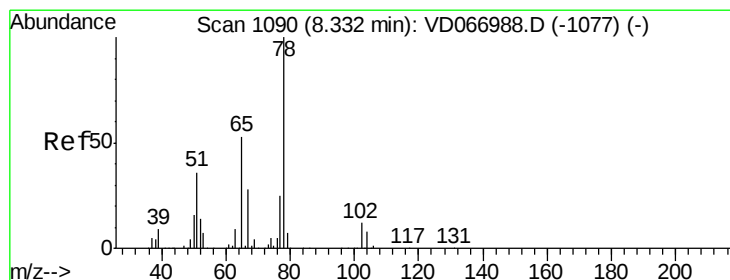
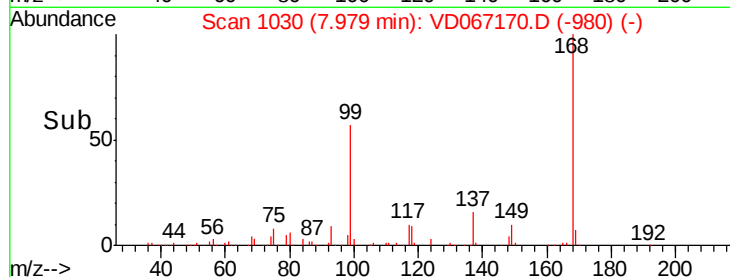
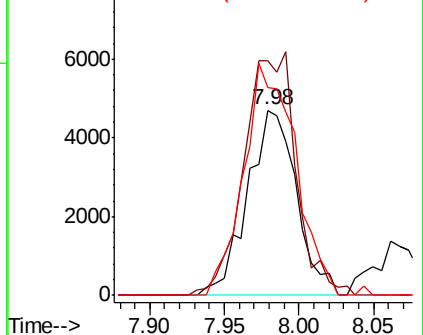
#31  
Cyclohexane  
Concen: 1.804 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD067170.D  
Acq: 08 Oct 2020 00:40

Instrument :  
MSVOA\_D  
ClientSampleId :  
PAV-B13-100620-DP

Tot Ion: 56 Resp: 10704  
Ion Ratio Lower Upper  
56 100  
69 126.4 29.0 43.6#  
84 112.2 74.2 111.2#

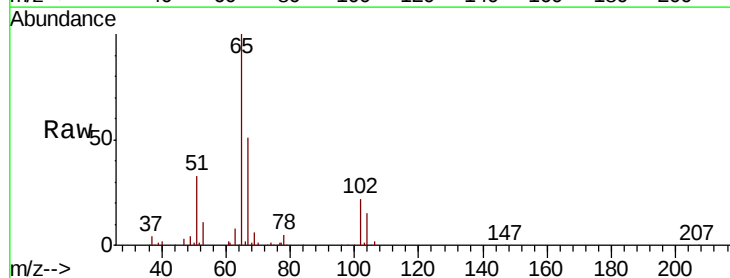


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

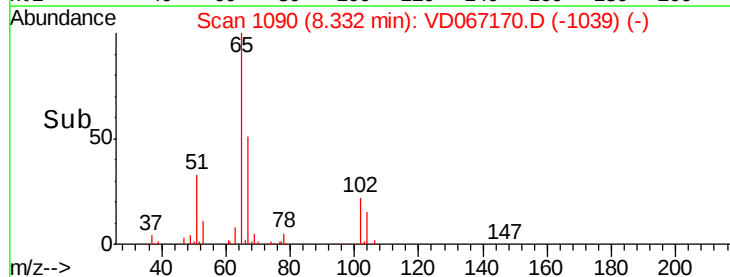
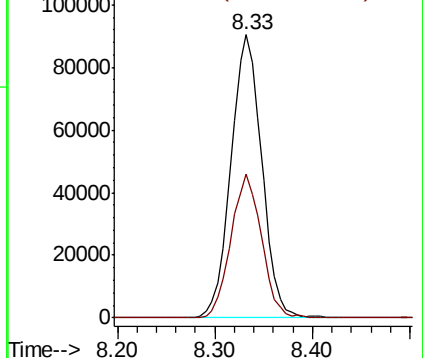


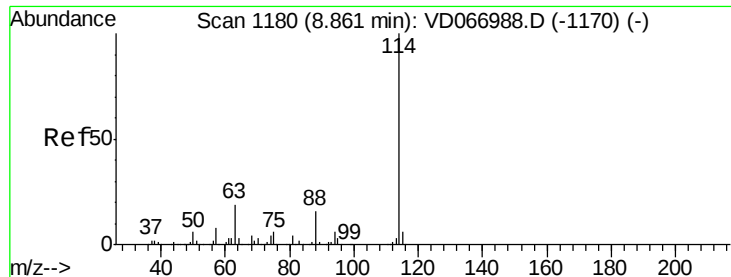
#33  
1,2-Dichloroethane-d4  
Concen: 50.257 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. 0.00 min  
Lab File: VD067170.D  
Acq: 08 Oct 2020 00:40

Tgt Ion: 65 Resp: 198537  
Ion Ratio Lower Upper  
65 100  
67 50.4 0.0 106.8



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

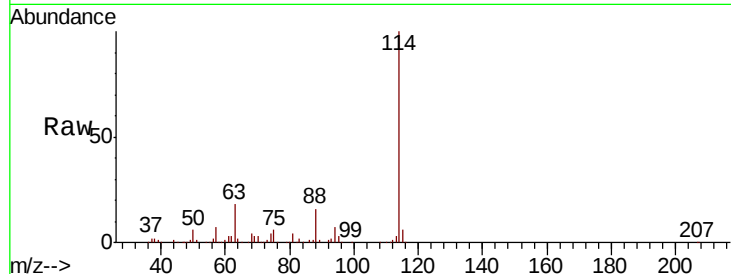




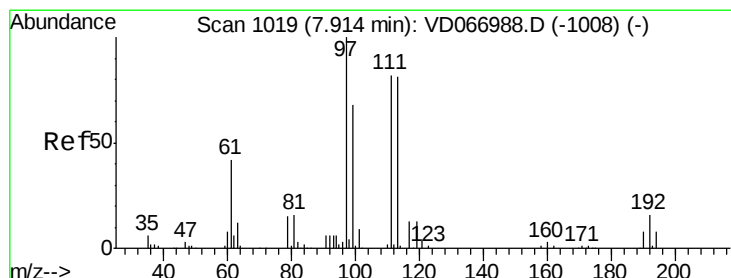
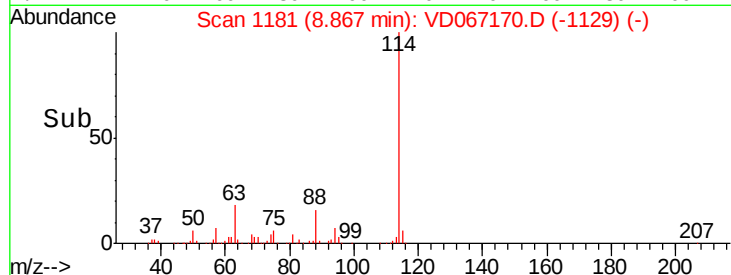
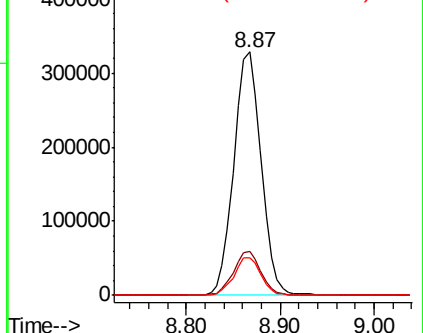
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.01 min  
 Lab File: VD067170.D  
 Acq: 08 Oct 2020 00:40

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PAV-B13-100620-DP

Tot Ion:114 Resp: 664550  
 Ion Ratio Lower Upper  
 114 100  
 63 18.2 0.0 38.4  
 88 15.6 0.0 31.2

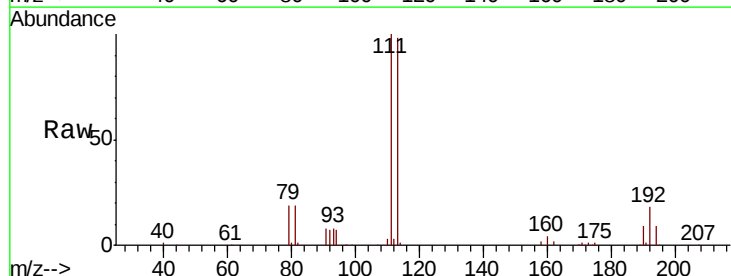


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

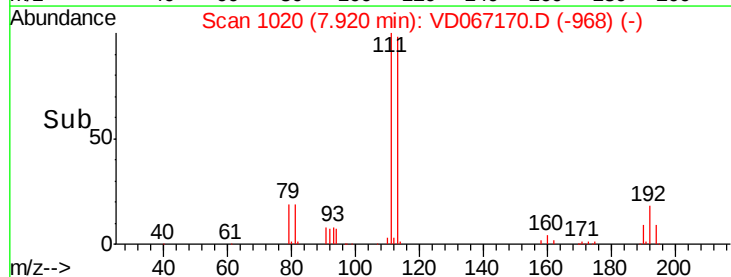
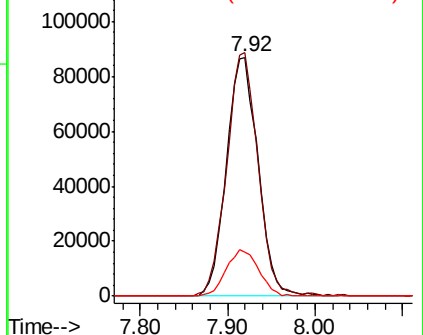


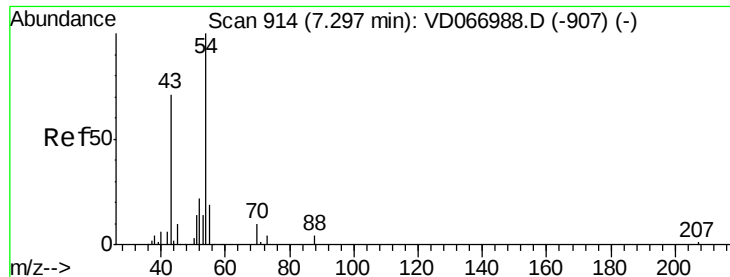
#35  
 Dibromofluoromethane  
 Concen: 49.205 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD067170.D  
 Acq: 08 Oct 2020 00:40

Tgt Ion:113 Resp: 214076  
 Ion Ratio Lower Upper  
 113 100  
 111 100.9 83.0 124.4  
 192 20.0 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

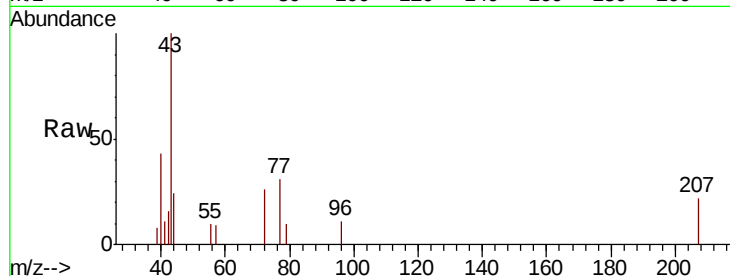




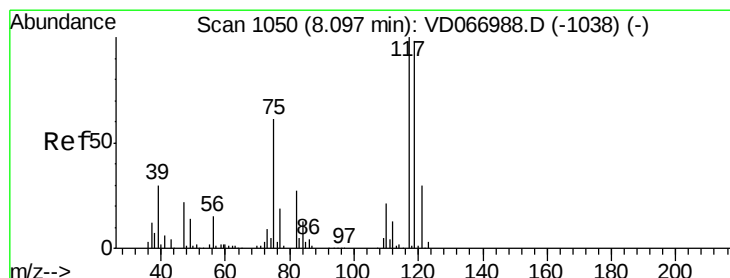
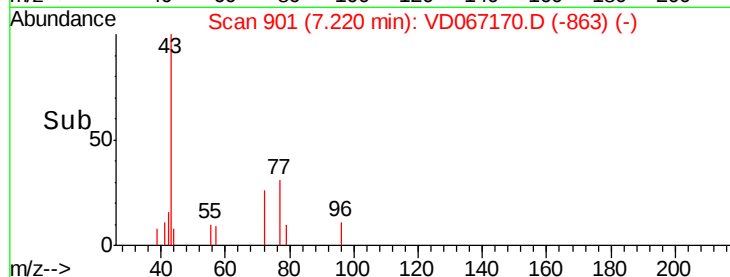
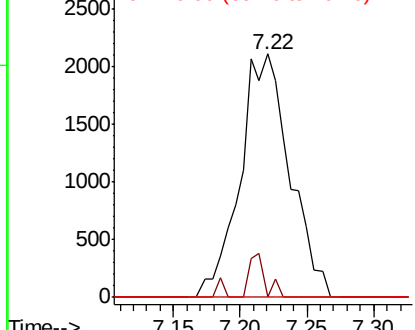
#37  
Ethyl Acetate  
Concen: 2.536 ug/l  
RT: 7.22 min Scan# 901  
Delta R.T. -0.08 min  
Lab File: VD067170.D  
Acq: 08 Oct 2020 00:40

Instrument :  
MSVOA\_D  
ClientSampleId :  
PAV-B13-100620-DP

Tot Ion: 43 Resp: 5443  
Ion Ratio Lower Upper  
43 100  
61 5.7 12.5 18.7#  
70 0.0 9.4 14.0#

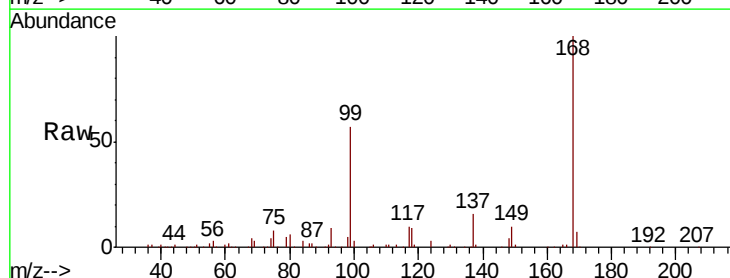


Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 70.00 (69.70 to 70.70): VDC

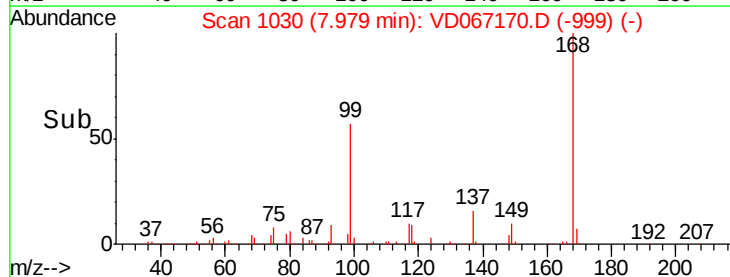
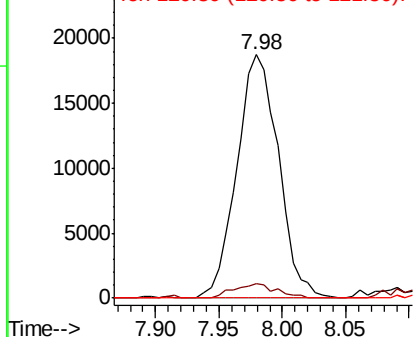


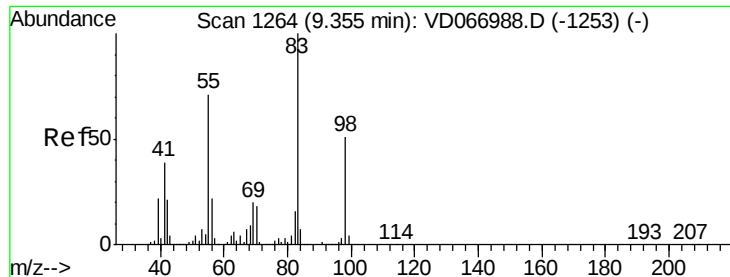
#38  
Carbon Tetrachloride  
Concen: 6.393 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.12 min  
Lab File: VD067170.D  
Acq: 08 Oct 2020 00:40

Tgt Ion: 117 Resp: 42848  
Ion Ratio Lower Upper  
117 100  
119 5.9 78.7 118.1#  
121 0.0 24.2 36.2#



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

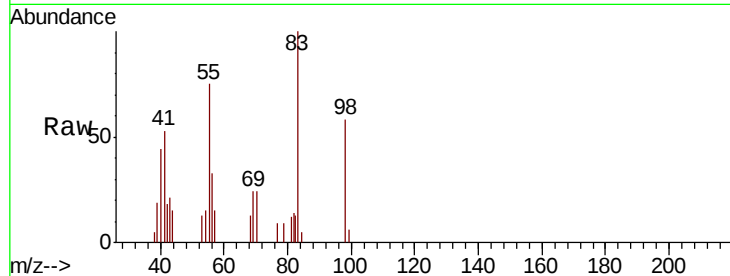




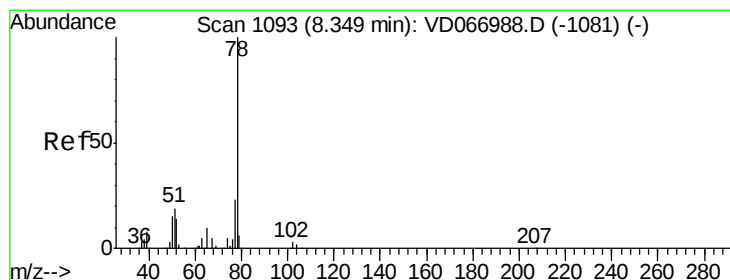
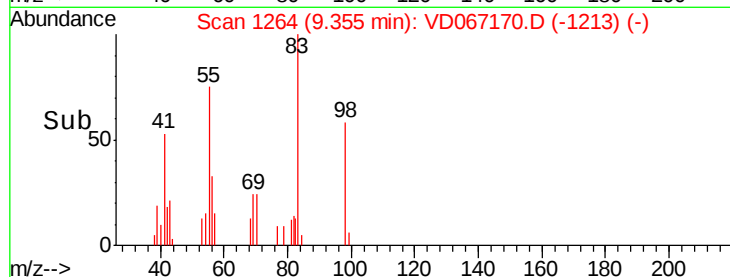
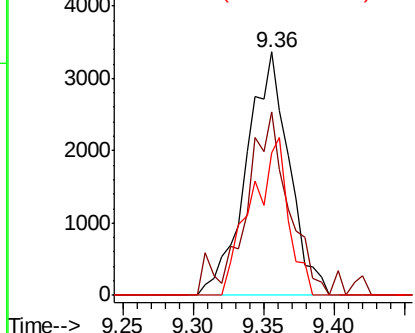
#39  
Methvlcvclohexane  
Concen: 1.095 ug/l  
RT: 9.36 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: VD067170.D  
Acq: 08 Oct 2020 00:40

Instrument :  
MSVOA\_D  
ClientSampleId :  
PAV-B13-100620-DP

Tot Ion: 83 Resp: 7169  
Ion Ratio Lower Upper  
83 100  
55 75.4 57.1 85.7  
98 58.4 40.9 61.3

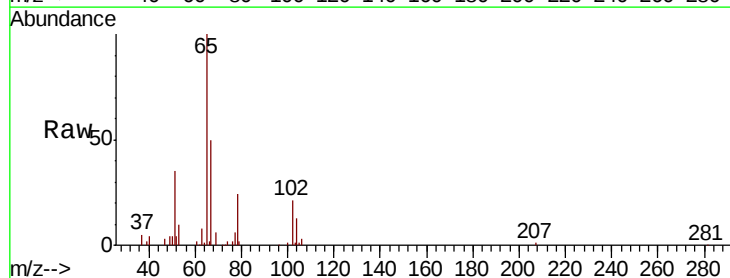


Abundance Ion 83.00 (82.70 to 83.70): VDC  
Ion 55.00 (54.70 to 55.70): VDC  
Ion 98.00 (97.70 to 98.70): VDC

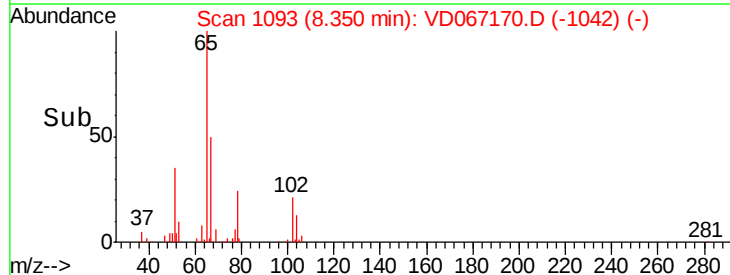
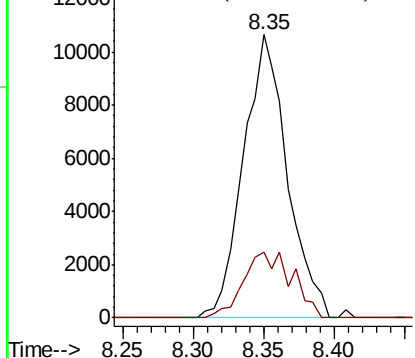


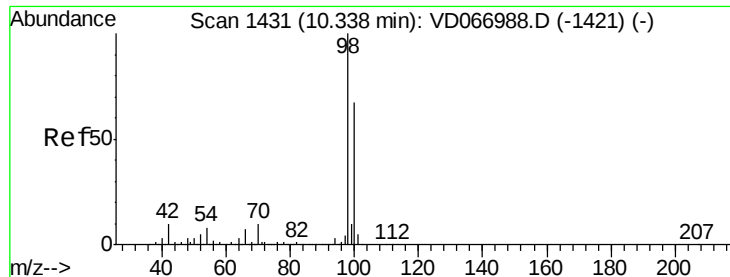
#40  
Benzene  
Concen: 1.346 ug/l  
RT: 8.35 min Scan# 1093  
Delta R.T. 0.00 min  
Lab File: VD067170.D  
Acq: 08 Oct 2020 00:40

Tgt Ion: 78 Resp: 23152  
Ion Ratio Lower Upper  
78 100  
77 23.3 18.4 27.6



Abundance Ion 78.00 (77.70 to 78.70): VDC  
Ion 77.00 (76.70 to 77.70): VDC





#50

Toluene-d8

Concen: 49.583 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067170.D

Acq: 08 Oct 2020 00:40

Instrument :

MSVOA\_D

ClientSampleId :

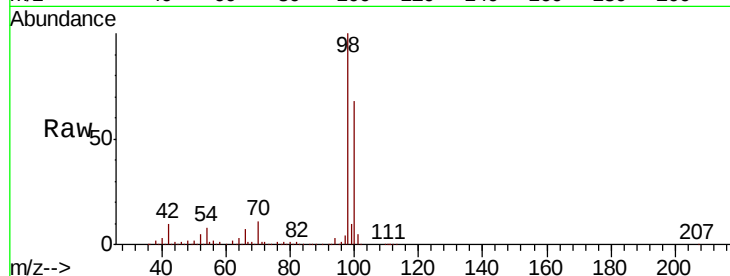
PAV-B13-100620-DP

Tot Ion: 98 Resp: 786050

Ion Ratio Lower Upper

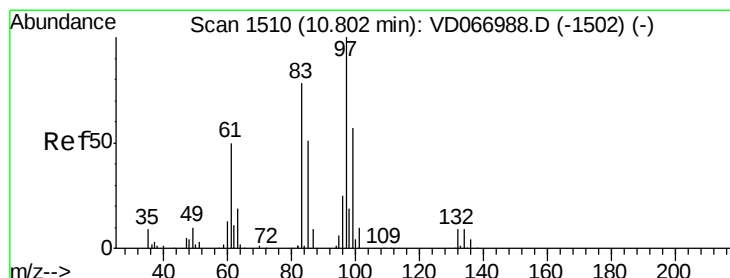
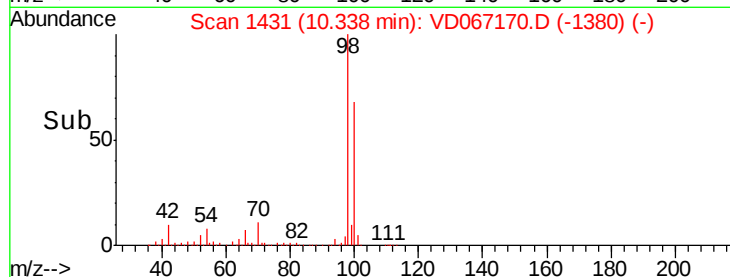
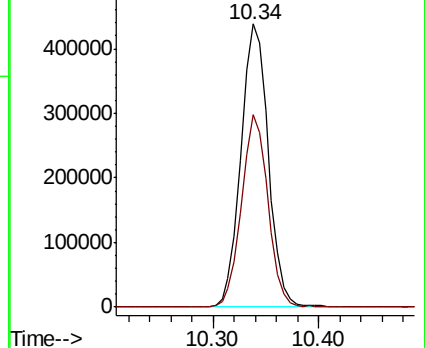
98 100

100 65.8 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#55

1,1,2-Trichloroethane

Concen: 1.146 ug/l

RT: 10.77 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VD067170.D

Acq: 08 Oct 2020 00:40

Tgt Ion: 97 Resp: 3701

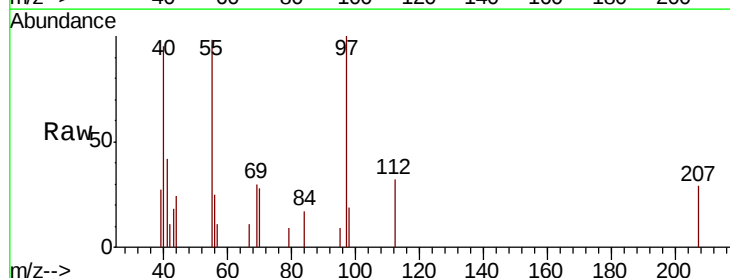
Ion Ratio Lower Upper

97 100

83 0.0 62.4 93.6#

85 0.0 41.0 61.4#

99 0.0 45.9 68.9#

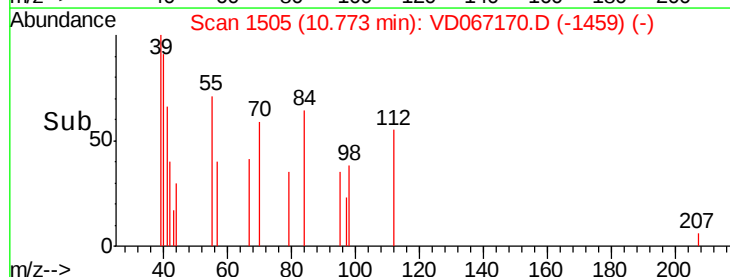
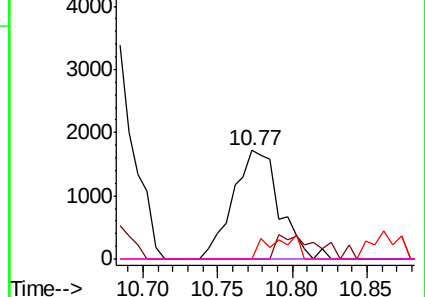


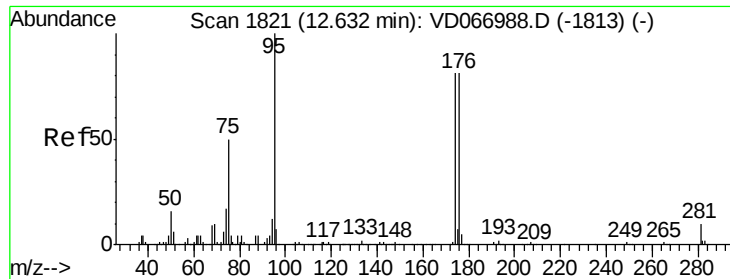
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

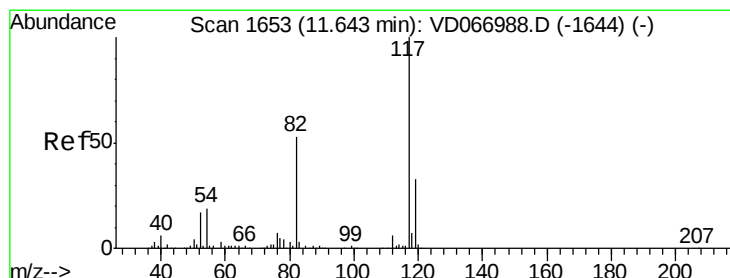
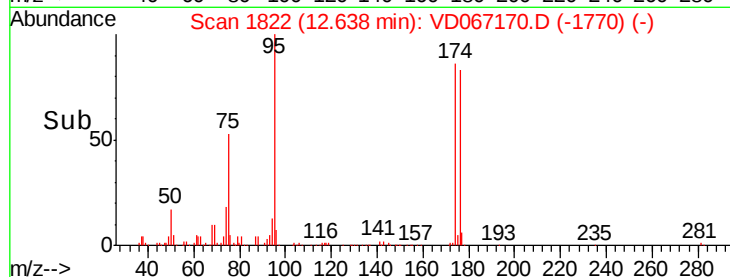
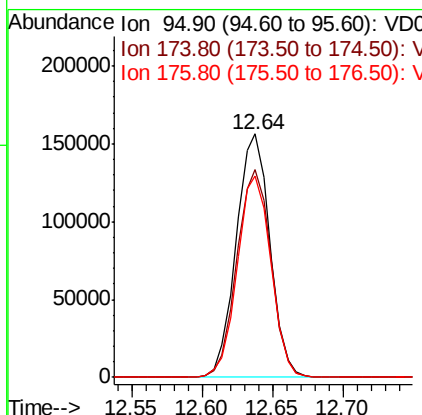
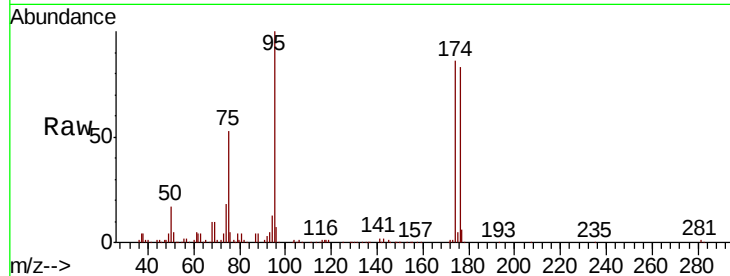




#62  
4-Bromofluorobenzene  
Concen: 48.293 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.01 min  
Lab File: VD067170.D  
Acq: 08 Oct 2020 00:40

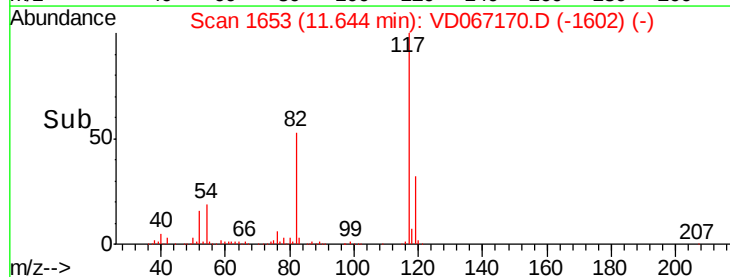
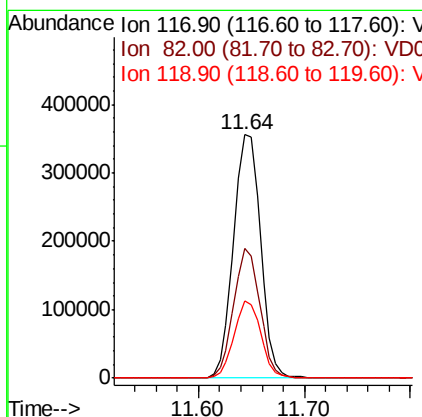
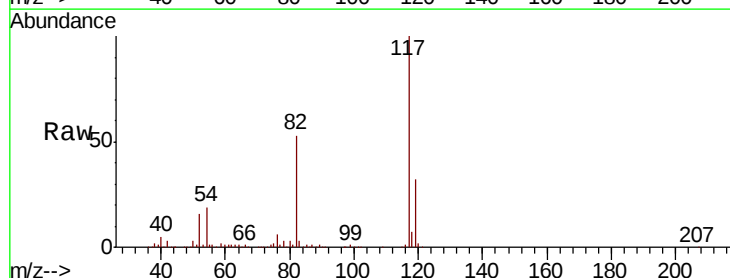
Instrument :  
MSVOA\_D  
ClientSampleId :  
PAV-B13-100620-DP

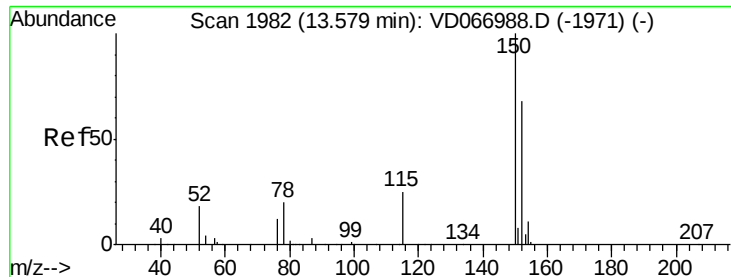
Tot Ion: 95 Resp: 259903  
Ion Ratio Lower Upper  
95 100  
174 86.8 0.0 167.6  
176 82.9 0.0 162.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD067170.D  
Acq: 08 Oct 2020 00:40

Tgt Ion: 117 Resp: 630308  
Ion Ratio Lower Upper  
117 100  
82 53.5 42.6 63.8  
119 31.9 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067170.D

Acq: 08 Oct 2020 00:40

Instrument :

MSVOA\_D

ClientSampleId :

PAV-B13-100620-DP

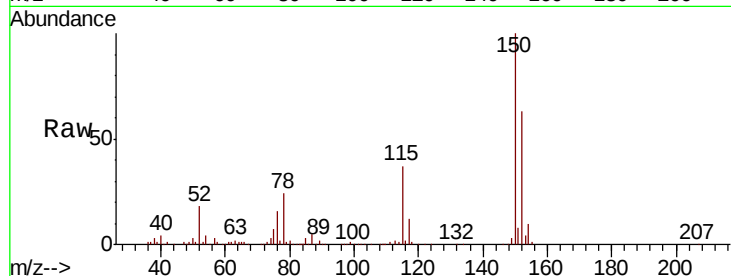
Tot Ion:152 Resp: 282323

Ion Ratio Lower Upper

152 100

115 58.6 29.6 88.8

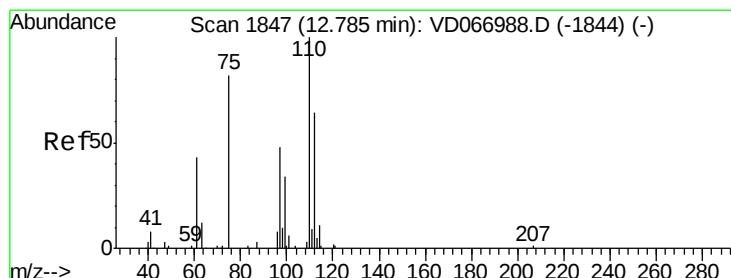
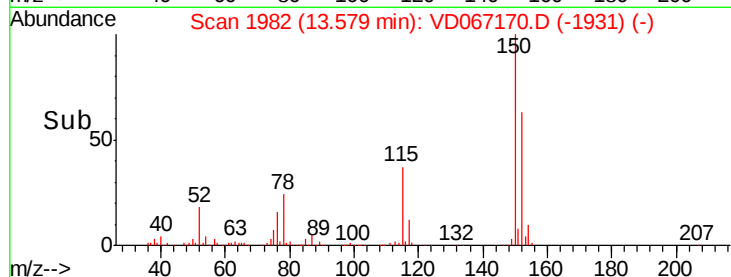
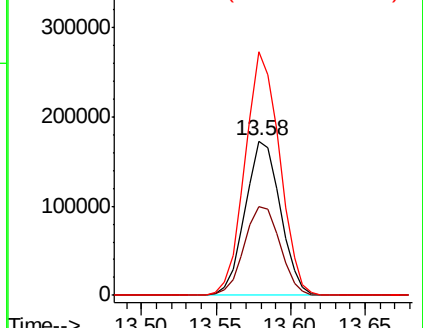
150 154.9 0.0 344.8



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: 53.626 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067170.D

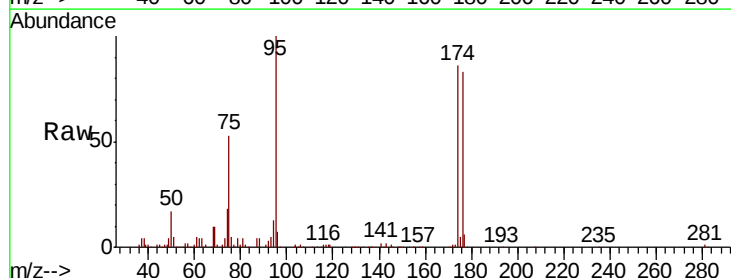
Acq: 08 Oct 2020 00:40

Tgt Ion: 75 Resp: 131872

Ion Ratio Lower Upper

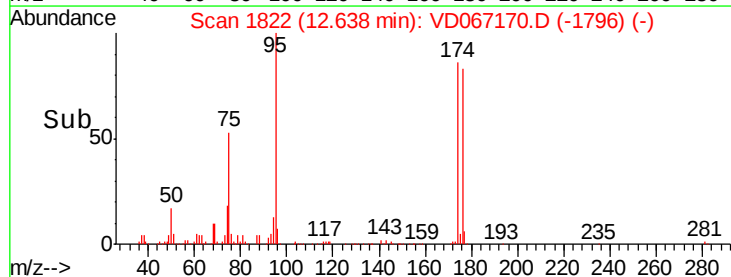
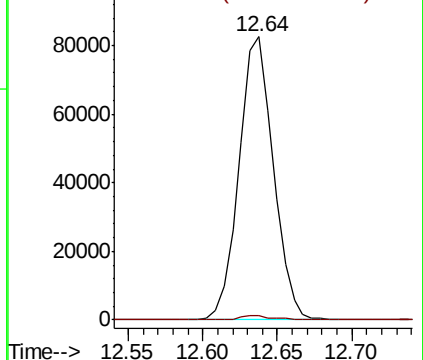
75 100

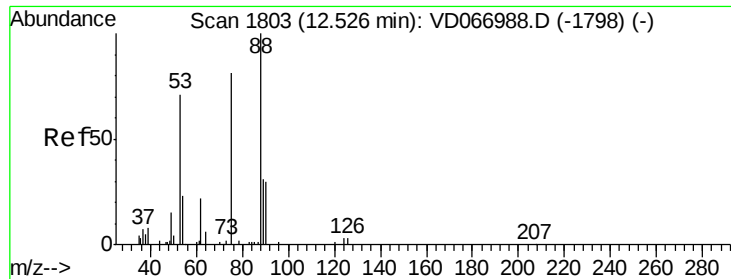
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 133.695 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067170.D

Acq: 08 Oct 2020 00:40

Instrument :

MSVOA\_D

ClientSampleId :

PAV-B13-100620-DP

Tot Ion: 75 Resp: 131872

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.0 38.9 58.3#

