

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100720\  
 Data File : VD067154.D  
 Acq On : 07 Oct 2020 16:01  
 Operator : VA/SY  
 Sample : L4273-17  
 Misc : 5.71G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

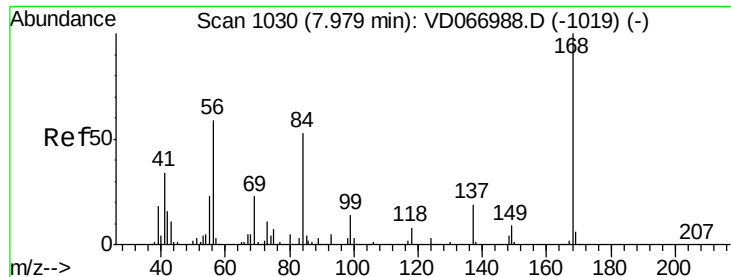
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-9

Quant Time: Oct 08 07:24:07 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  | 396841   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 636098   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 11.64 | 117  | 590401   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 271147   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 189796   | 49.65     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 99.30% |          |
| 35) Dibromofluoromethane       | 7.91  | 113  | 205370   | 49.32     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 98.64% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 747527   | 49.26     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 98.52% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 246359   | 47.82     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 95.64% |          |
| Target Compounds               |       |      |          |           |        |          |
|                                |       |      |          |           | Qvalue |          |
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 345      | Below Cal | #      | 40       |
| 5) Bromomethane                | 2.77  | 94   | 80       | Below Cal | #      | 3        |
| 11) Tert butyl alcohol         | 5.21  | 59   | 261      | Below Cal | #      | 72       |
| 16) Acetone                    | 4.16  | 43   | 11873    | 20.348    | ug/l   | 97       |
| 20) Methylene Chloride         | 4.98  | 84   | 11818    | Below Cal | #      | 89       |
| 25) 2-Butanone                 | 7.21  | 43   | 2143     | 2.591     | ug/l   | 99       |
| 26) 2,2-Dichloropropane        | 7.20  | 77   | 1933     | Below Cal | #      | 53       |
| 31) Cyclohexane                | 7.99  | 56   | 8211     | 1.430     | ug/l # | 45       |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 29937    | 5.049     | ug/l # | 50       |
| 37) Ethyl Acetate              | 7.21  | 43   | 2143     | 1.043     | ug/l # | 1        |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 39075    | 6.091     | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 125823   | 53.275    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 125823   | 132.820   | ug/l # | 12       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067154.D

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ClientSampleId :

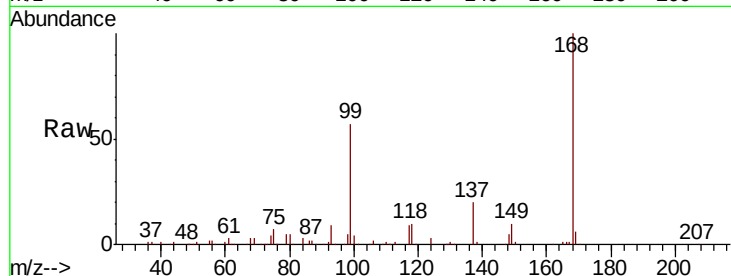
SB-9

Tot Ion:168 Resp: 396841

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

7.98

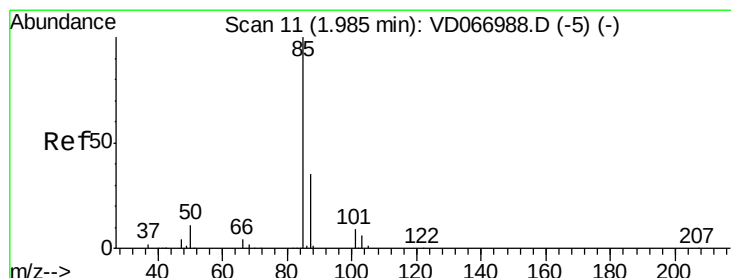
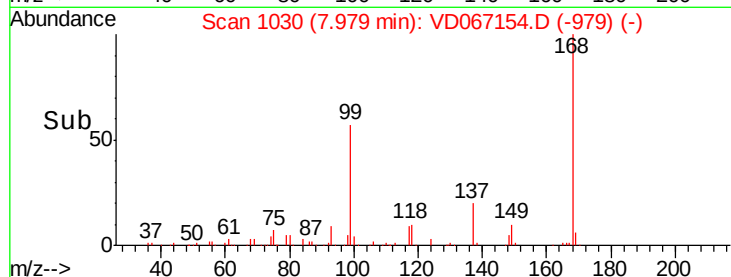
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067154.D

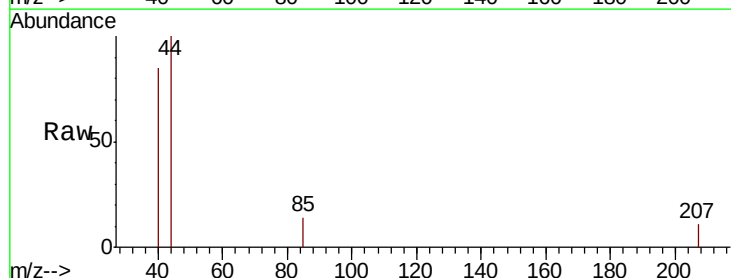
Acq: 07 Oct 2020 16:01

Tgt Ion: 85 Resp: 345

Ion Ratio Lower Upper

85 100

87 0.0 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

400

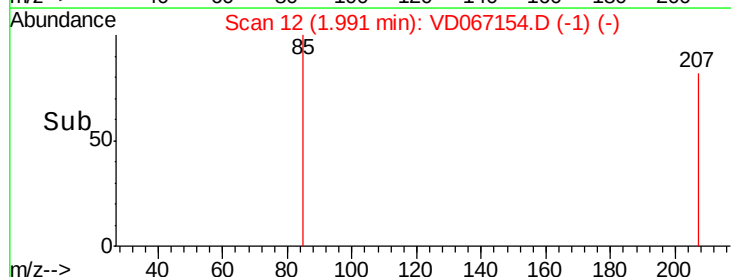
300

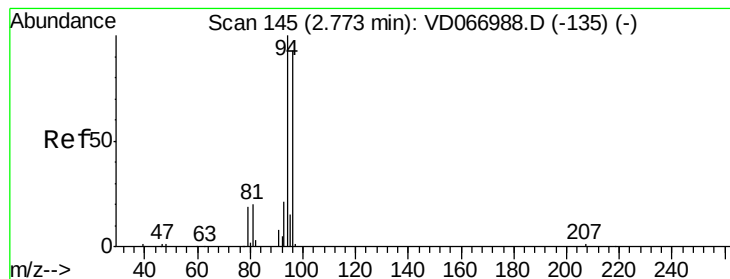
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD067154.D

Acq: 07 Oct 2020 16:01

Instrument :

MSVOA\_D

ClientSampleId :

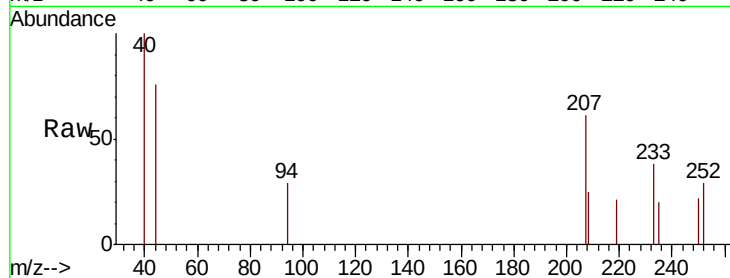
SB-9

Tot Ion: 94 Resp: 80

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

2.77

200

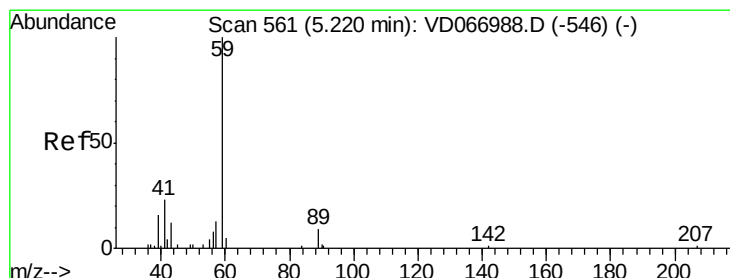
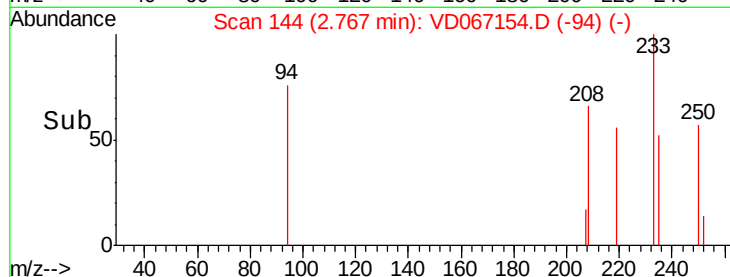
150

100

50

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD067154.D

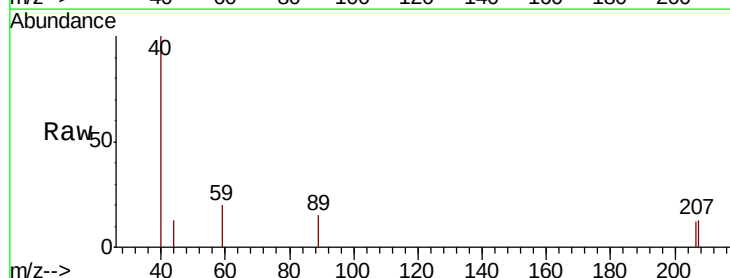
Acq: 07 Oct 2020 16:01

Tgt Ion: 59 Resp: 261

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

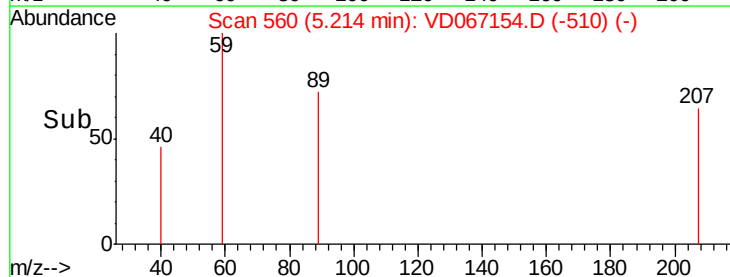
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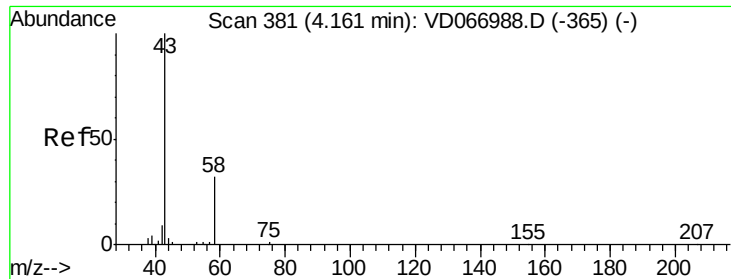
200

100

0

Time-->

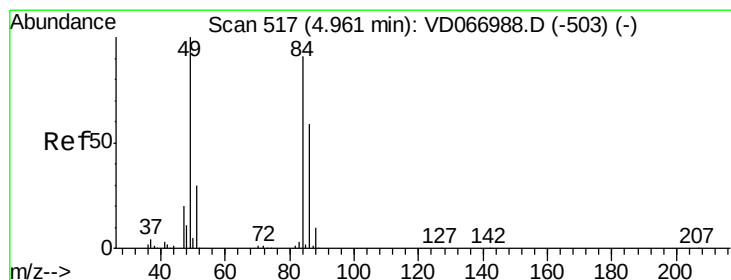
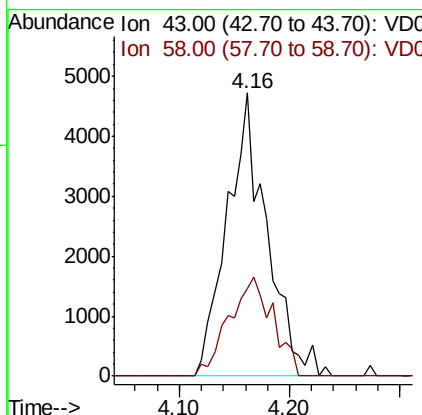
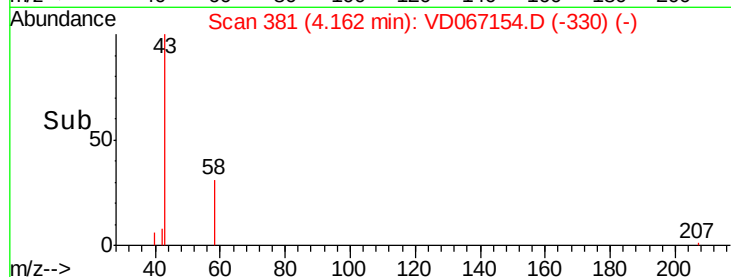
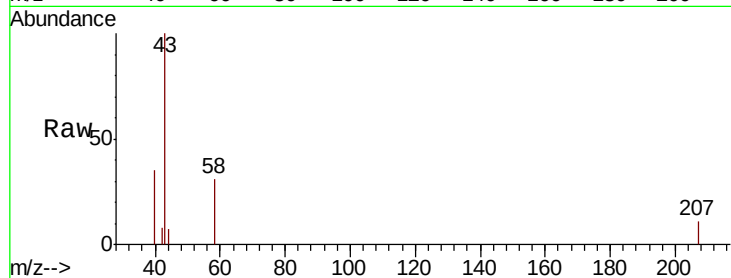




#16  
Acetone  
Concen: 20.348 ug/l  
RT: 4.16 min Scan# 381  
Delta R.T. 0.00 min  
Lab File: VD067154.D  
Acq: 07 Oct 2020 16:01

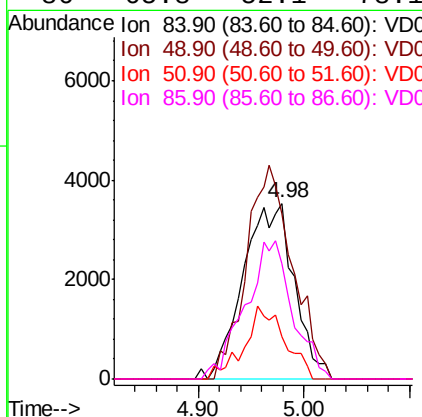
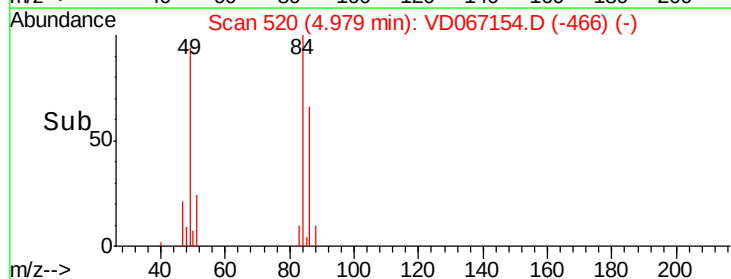
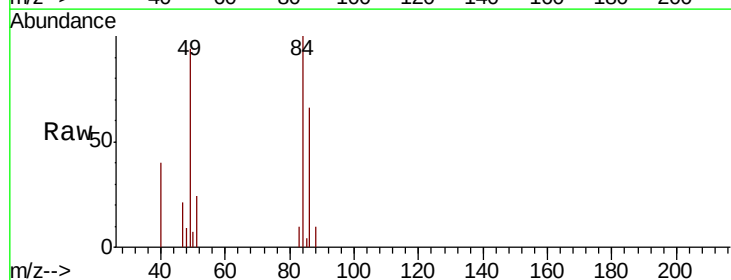
Instrument :  
MSVOA\_D  
ClientSampleId :  
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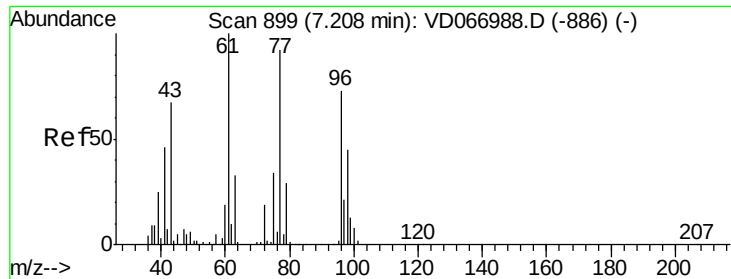
Tot Ion: 43 Resp: 11873  
Ion Ratio Lower Upper  
43 100  
58 30.9 25.9 38.9



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.98 min Scan# 520  
Delta R.T. 0.02 min  
Lab File: VD067154.D  
Acq: 07 Oct 2020 16:01

Tgt Ion: 84 Resp: 11818  
Ion Ratio Lower Upper  
84 100  
49 93.7 88.2 132.2  
51 24.3 26.6 39.8#  
86 65.8 52.1 78.1

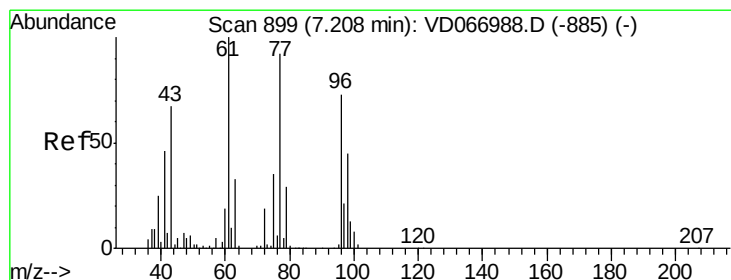
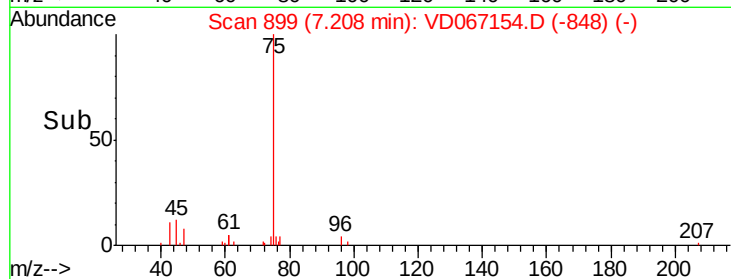
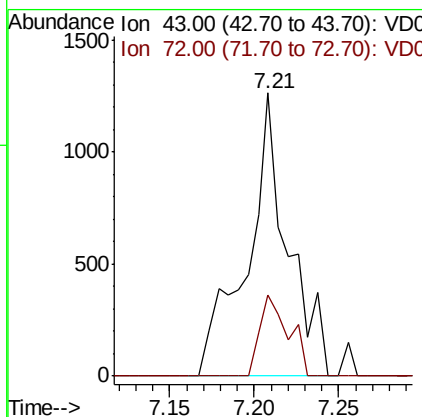
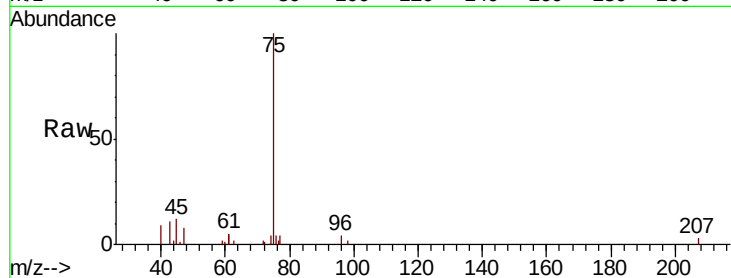




#25  
2-Butanone  
Concen: 2.591 ug/l  
RT: 7.21 min Scan# 899  
Delta R.T. 0.00 min  
Lab File: VD067154.D  
Acq: 07 Oct 2020 16:01

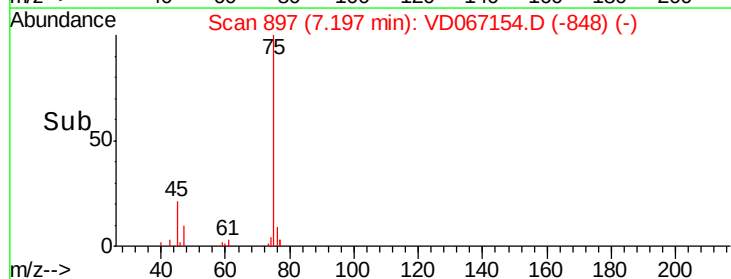
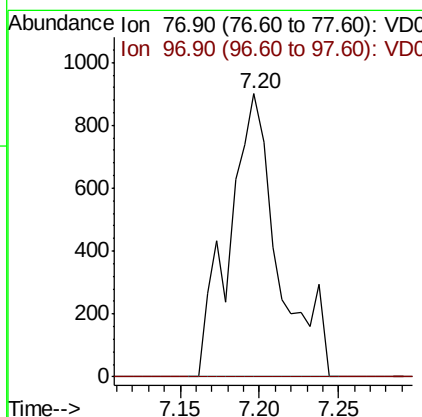
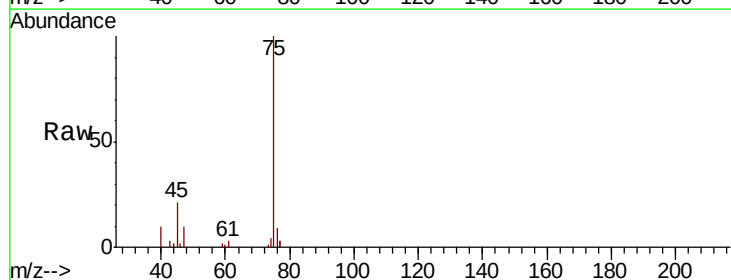
Instrument :  
MSVOA\_D  
ClientSampleID :  
SB-9

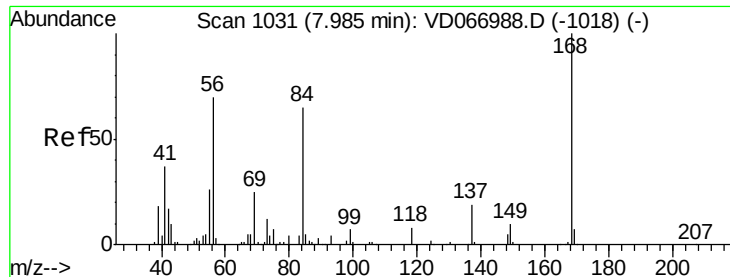
Tot Ion: 43 Resp: 2143  
Ion Ratio Lower Upper  
43 100  
72 28.8 22.8 34.2



#26  
2,2-Dichloropropane  
Concen: Below Cal  
RT: 7.20 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: VD067154.D  
Acq: 07 Oct 2020 16:01

Tgt Ion: 77 Resp: 1933  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.4 34.2#

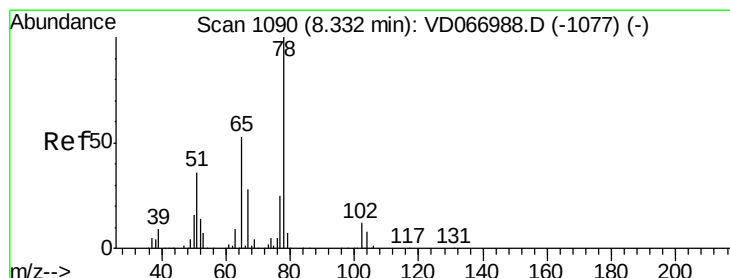
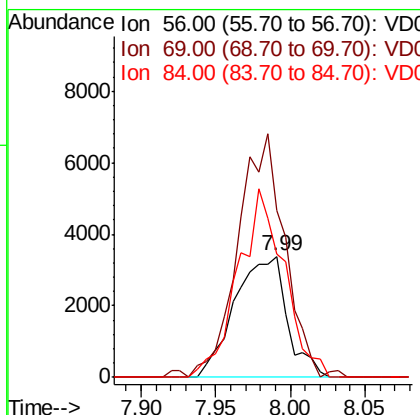
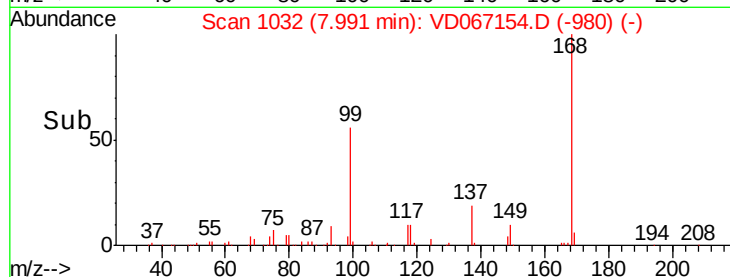
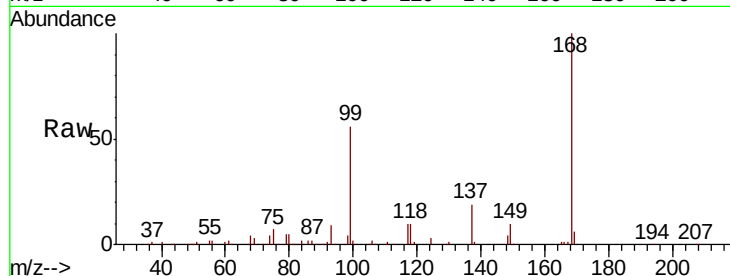




#31  
Cyclohexane  
Concen: 1.430 ug/l  
RT: 7.99 min Scan# 1032  
Delta R.T. 0.01 min  
Lab File: VD067154.D  
Acq: 07 Oct 2020 16:01

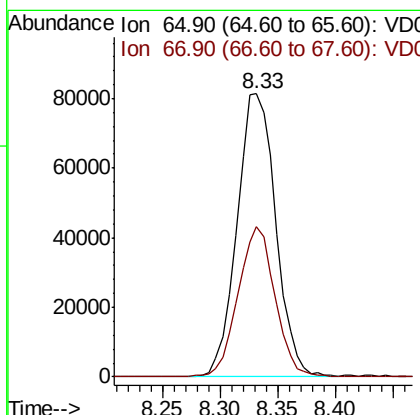
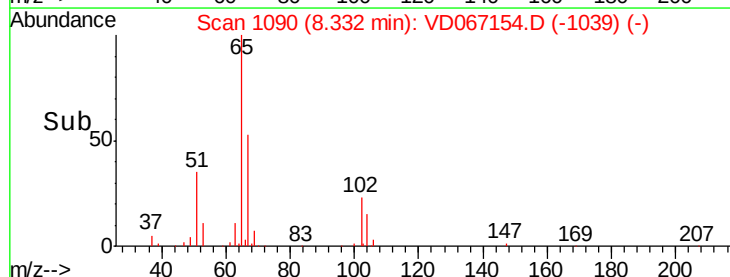
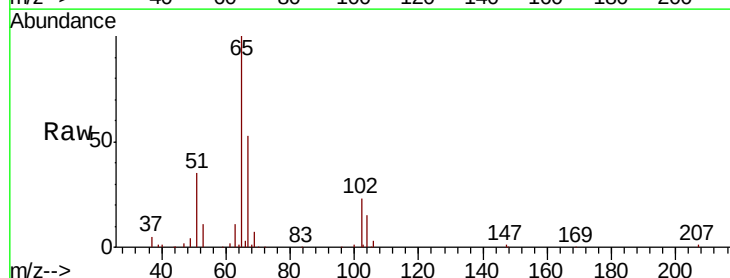
Instrument :  
MSVOA\_D  
ClientSampled :  
SB-9

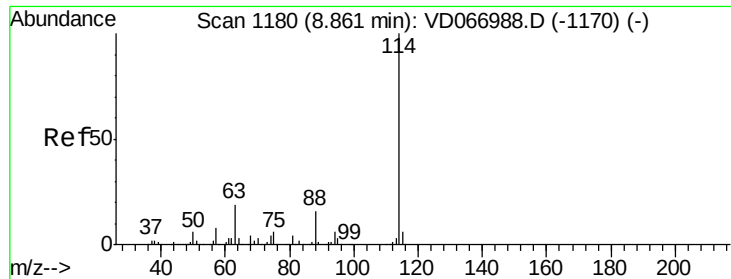
Tot Ion: 56 Resp: 8211  
Ion Ratio Lower Upper  
56 100  
69 137.8 29.0 43.6#  
84 101.6 74.2 111.2



#33  
1,2-Dichloroethane-d4  
Concen: 49.654 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. 0.00 min  
Lab File: VD067154.D  
Acq: 07 Oct 2020 16:01

Tgt Ion: 65 Resp: 189796  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 106.8

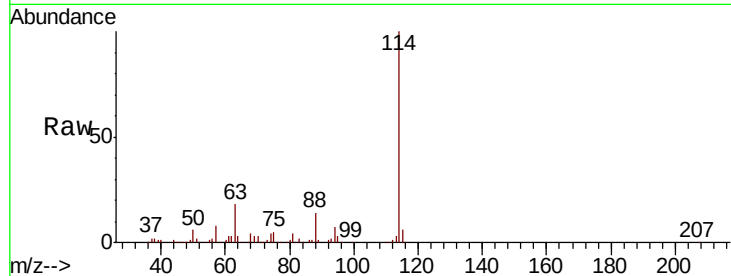




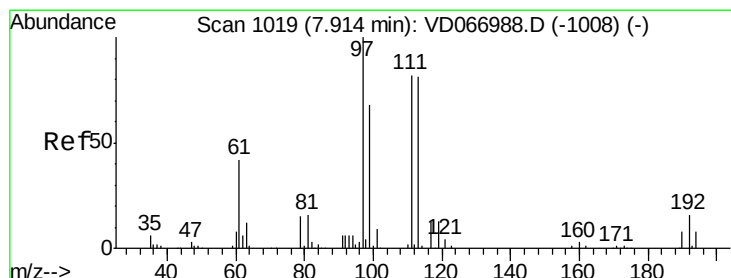
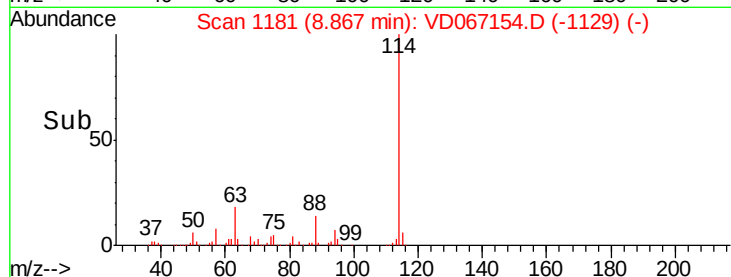
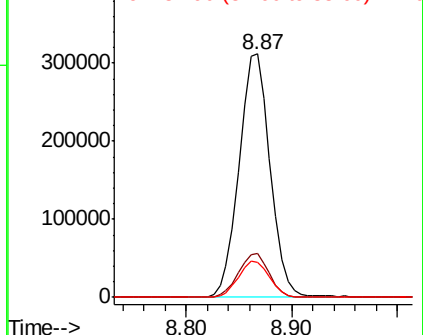
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.01 min  
 Lab File: VD067154.D  
 Acq: 07 Oct 2020 16:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
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Tot Ion:114 Resp: 636098  
 Ion Ratio Lower Upper  
 114 100  
 63 18.2 0.0 38.4  
 88 14.3 0.0 31.2

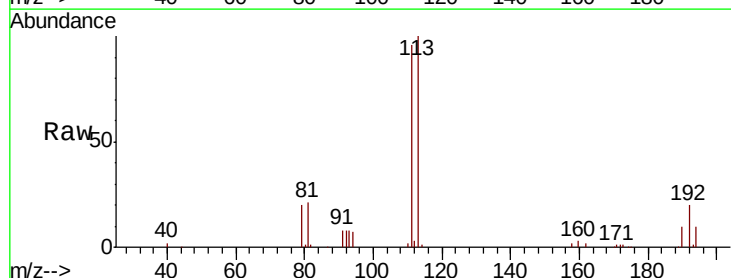


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

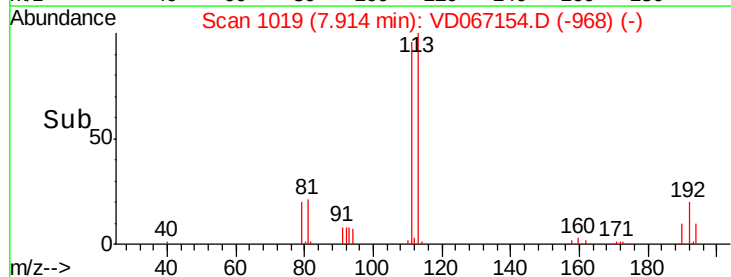
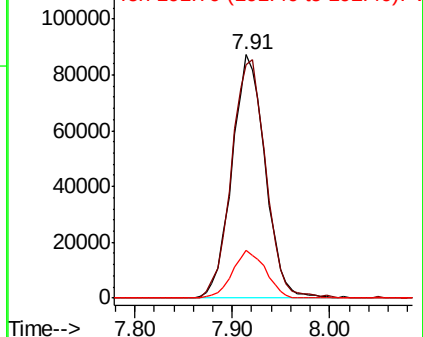


#35  
 Dibromofluoromethane  
 Concen: 49.315 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.00 min  
 Lab File: VD067154.D  
 Acq: 07 Oct 2020 16:01

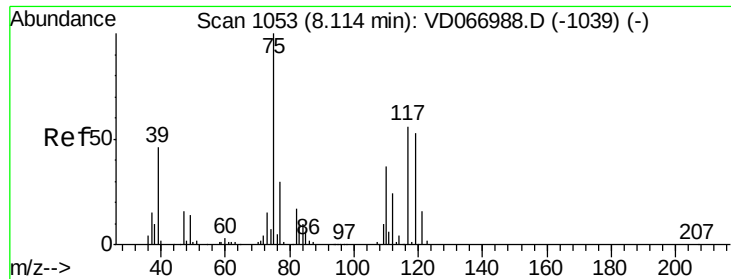
Tgt Ion:113 Resp: 205370  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 83.0 124.4  
 192 19.7 15.5 23.3



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: 5.049 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067154.D

Acq: 07 Oct 2020 16:01

Instrument :

MSVOA\_D

ClientSampleID :

SB-9

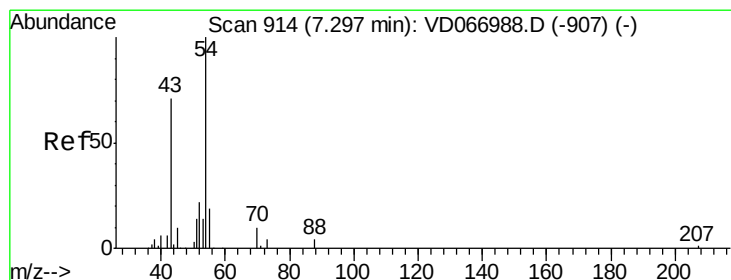
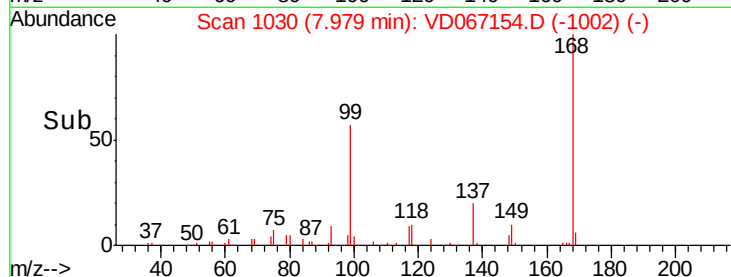
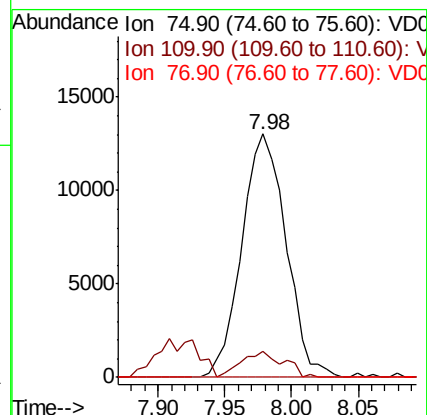
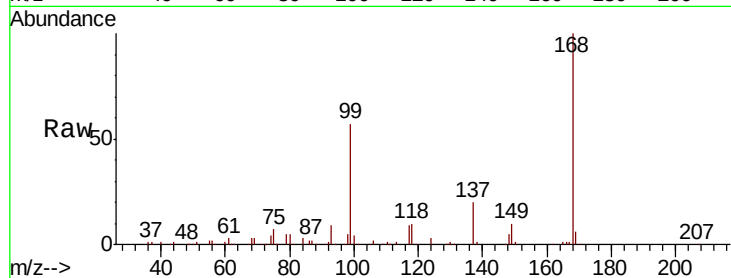
Tot Ion: 75 Resp: 29937

Ion Ratio Lower Upper

75 100

110 9.9 18.4 55.0#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 1.043 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.09 min

Lab File: VD067154.D

Acq: 07 Oct 2020 16:01

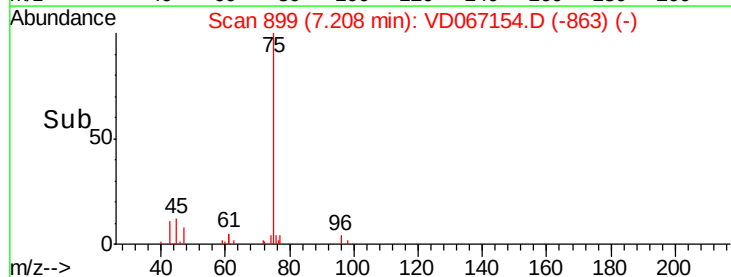
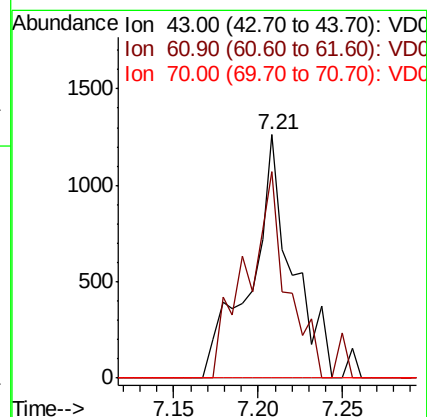
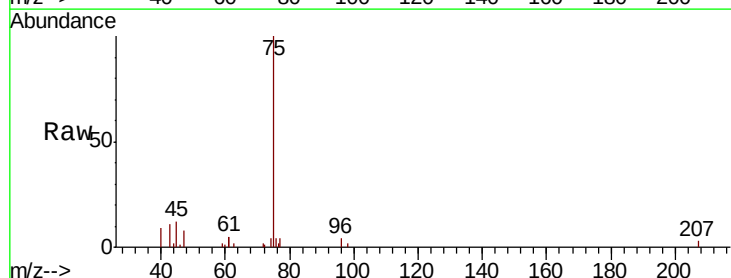
Tgt Ion: 43 Resp: 2143

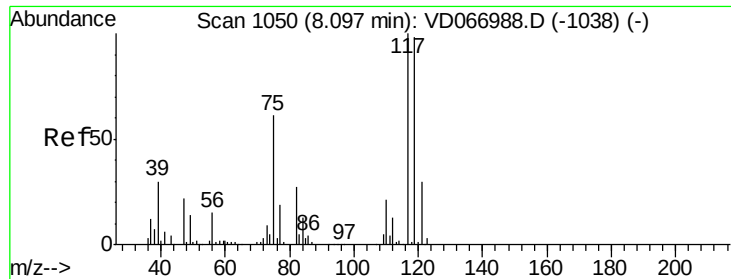
Ion Ratio Lower Upper

43 100

61 83.9 12.5 18.7#

70 0.0 9.4 14.0#

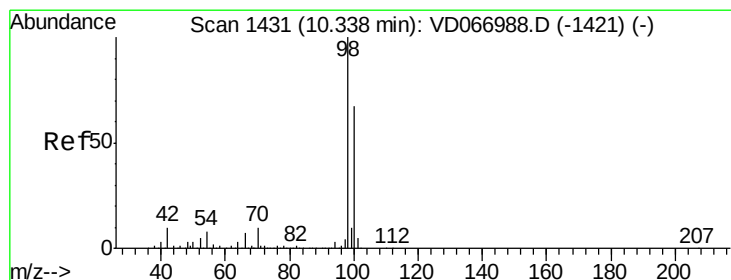
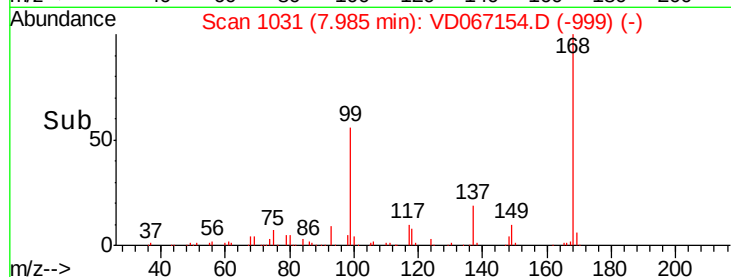
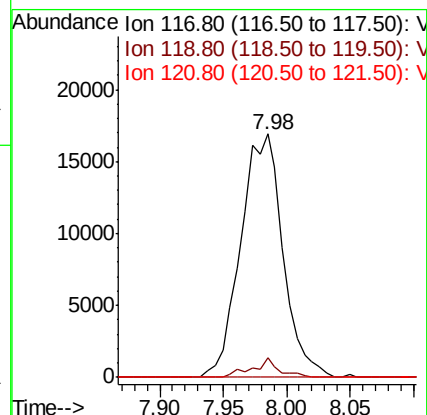
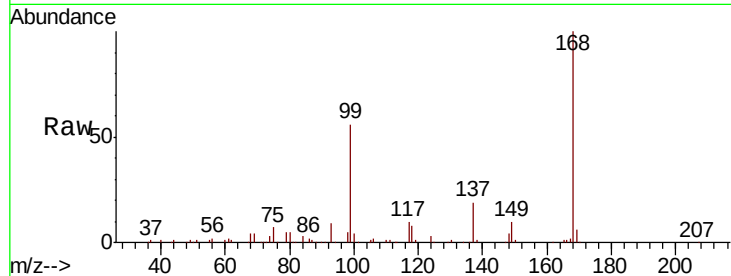




#38  
Carbon Tetrachloride  
Concen: 6.091 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD067154.D  
Acq: 07 Oct 2020 16:01

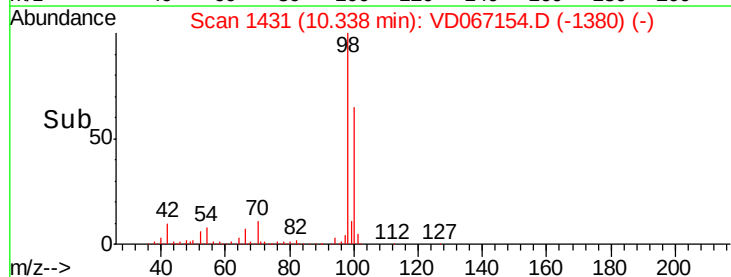
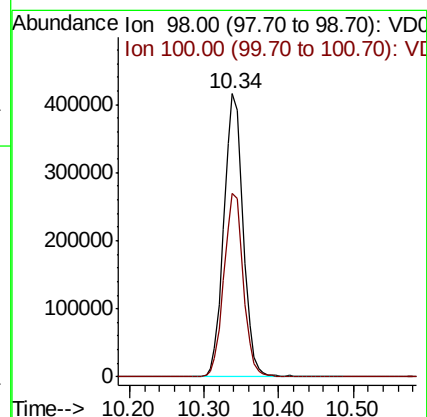
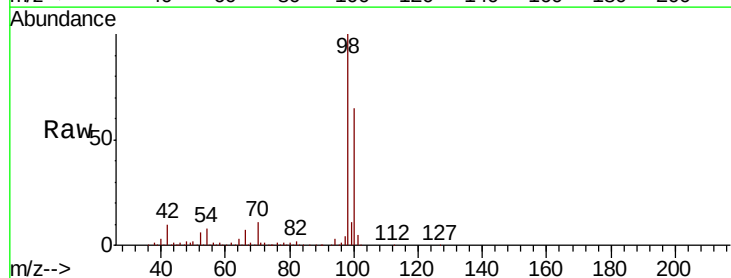
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-9

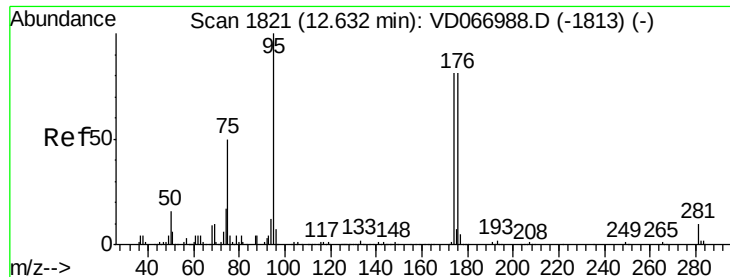
Tot Ion:117 Resp: 39075  
Ion Ratio Lower Upper  
117 100  
119 8.3 78.7 118.1#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 49.262 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD067154.D  
Acq: 07 Oct 2020 16:01

Tgt Ion: 98 Resp: 747527  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.8 79.2

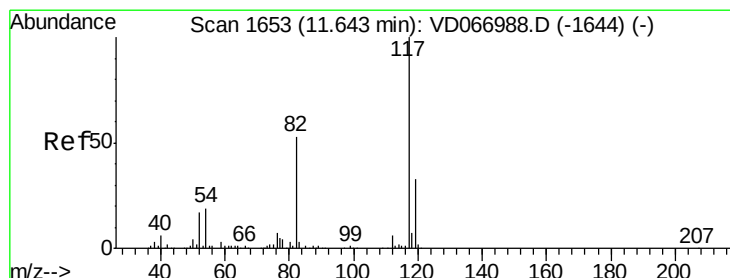
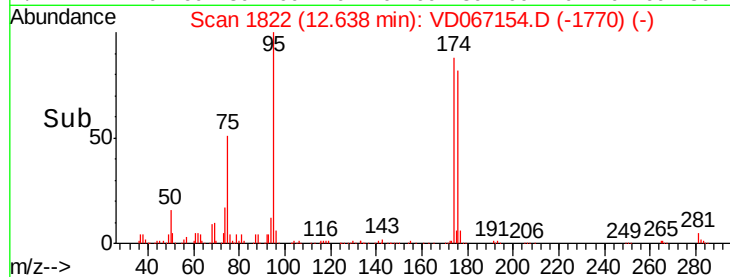
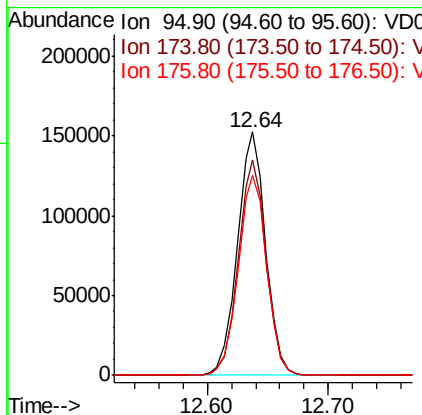
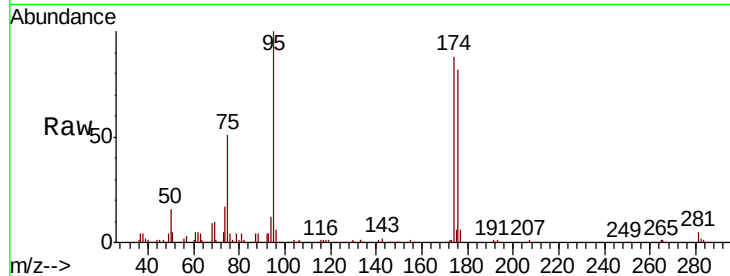




#62  
4-Bromofluorobenzene  
Concen: 47.823 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.01 min  
Lab File: VD067154.D  
Acq: 07 Oct 2020 16:01

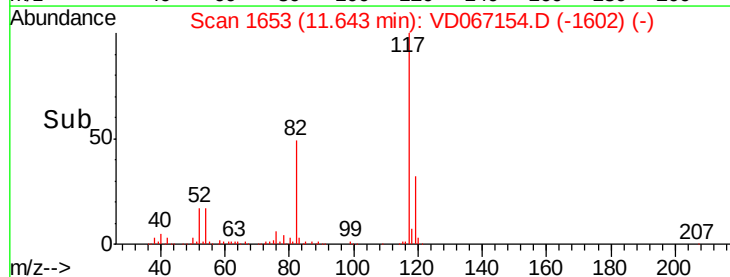
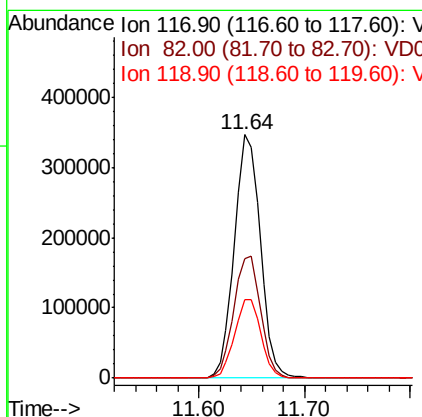
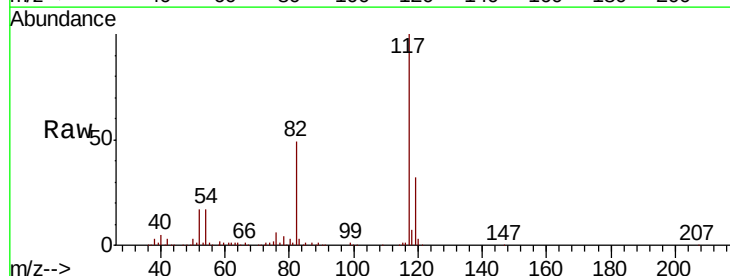
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-9

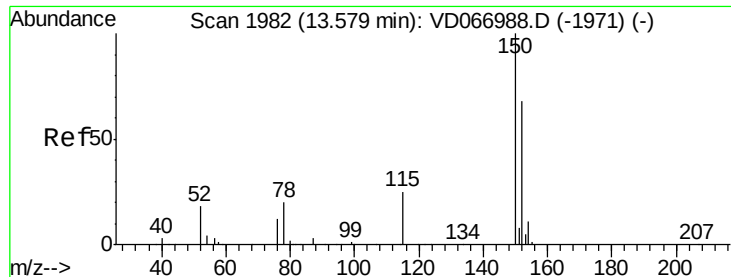
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 87.1  | 0.0   | 167.6 |
| 176     | 83.6  | 0.0   | 162.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD067154.D  
Acq: 07 Oct 2020 16:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 49.1  | 42.6  | 63.8  |
| 119     | 32.5  | 26.3  | 39.5  |

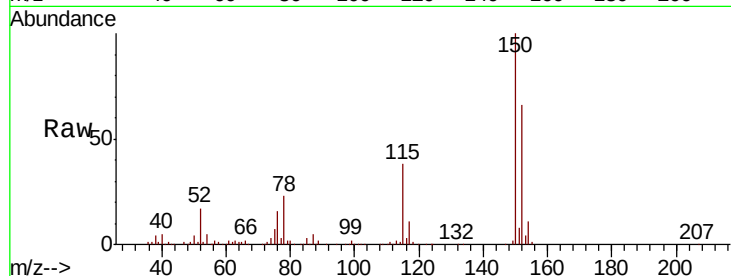




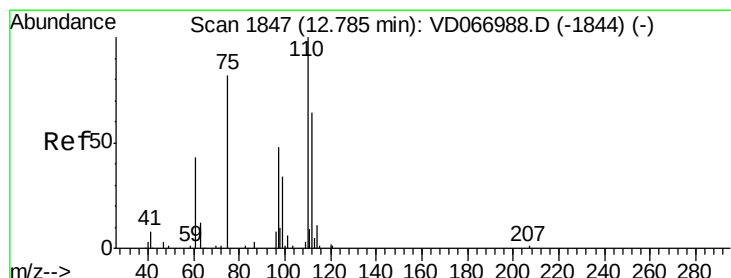
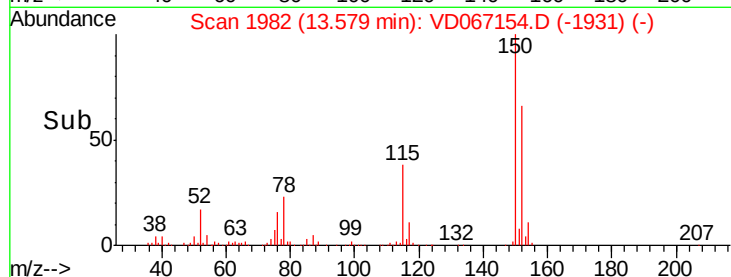
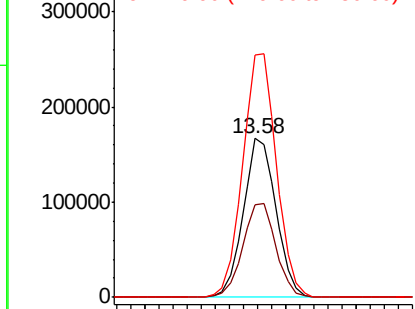
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.58 min Scan# 1982  
 Delta R.T. 0.00 min  
 Lab File: VD067154.D  
 Acq: 07 Oct 2020 16:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-9

Tot Ion:152 Resp: 271147  
 Ion Ratio Lower Upper  
 152 100  
 115 59.5 29.6 88.8  
 150 157.5 0.0 344.8

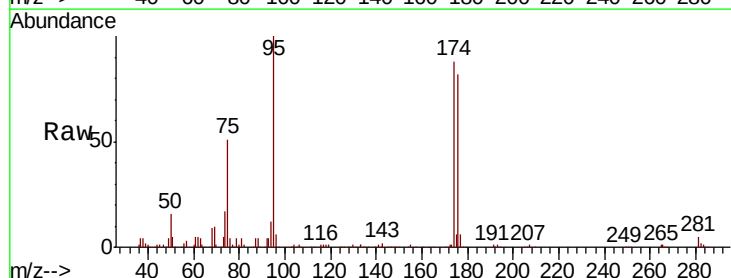


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 114.90 (114.60 to 115.60): V  
 Ion 149.90 (149.60 to 150.60): V

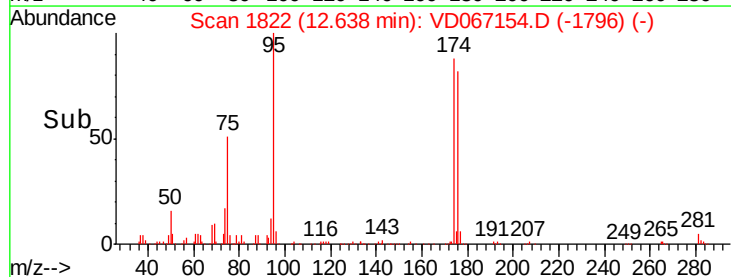
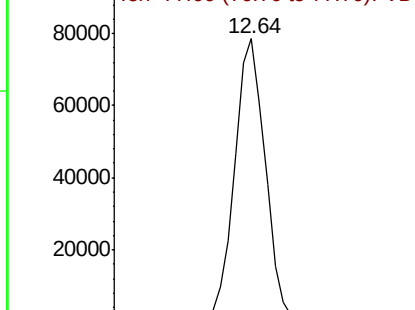


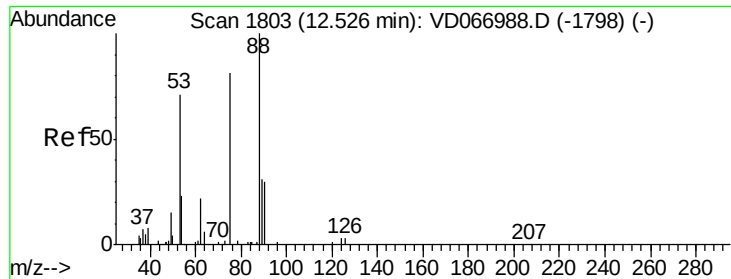
#76  
 1,2,3-Trichloropropane  
 Concen: 53.275 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. -0.15 min  
 Lab File: VD067154.D  
 Acq: 07 Oct 2020 16:01

Tgt Ion: 75 Resp: 125823  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 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: 132.820 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067154.D

Acq: 07 Oct 2020 16:01

Instrument :

MSVOA\_D

ClientSampleId :

SB-9

Tot Ion: 75 Resp: 125823

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.1 38.9 58.3#

