

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100720\  
 Data File : VD067156.D  
 Acq On : 07 Oct 2020 16:56  
 Operator : VA/SY  
 Sample : L4273-19  
 Misc : 4.84G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-10

Quant Time: Oct 08 07:24:33 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  | 360151   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 586528   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 549592   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 258565   | 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   | 188975   | 54.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.96% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 193252   | 50.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.66% |          |
| 50) Toluene-d8              | 10.34 | 98   | 682344   | 48.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.54%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 230038   | 48.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.86%  |          |

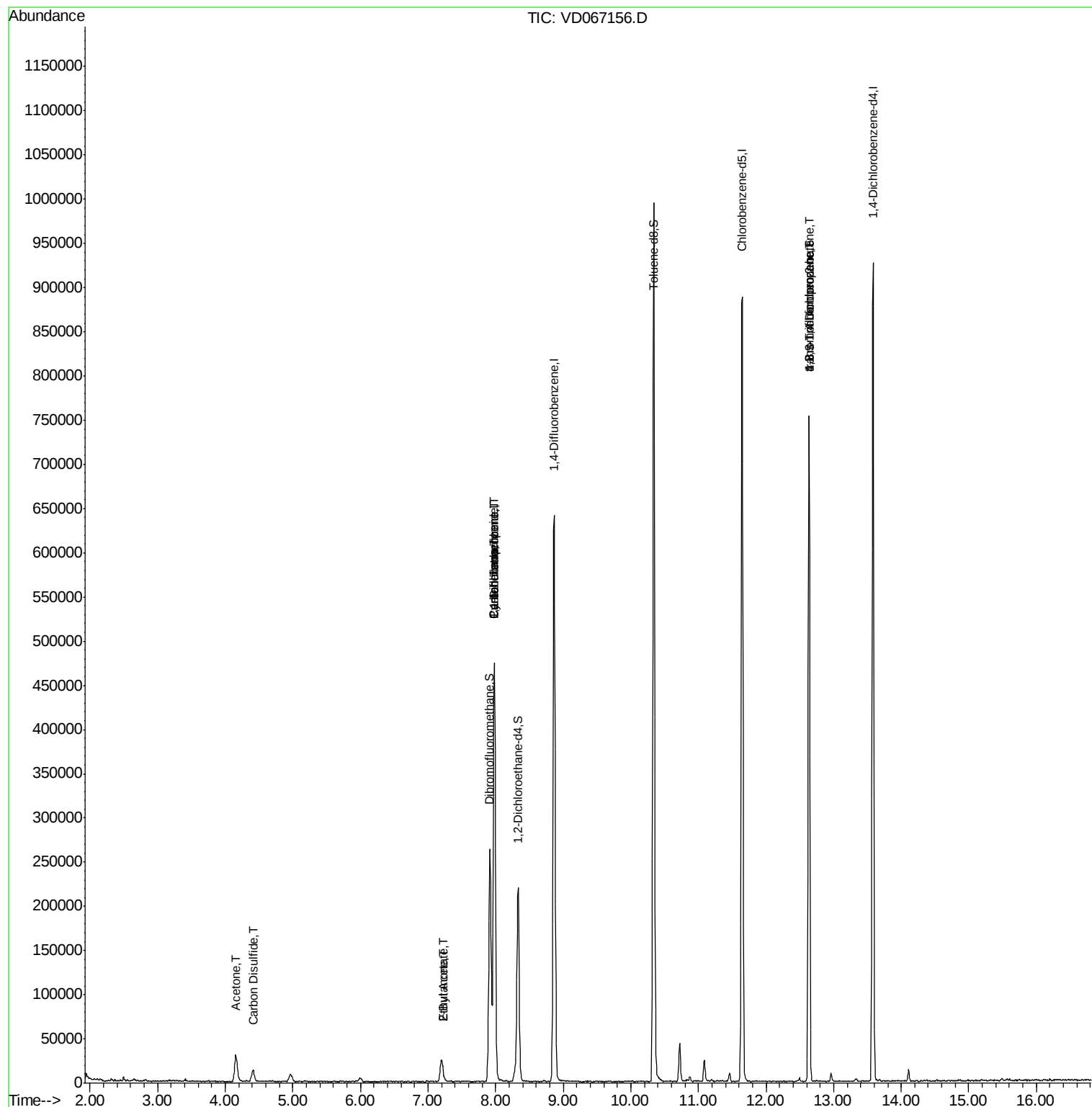
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 519      | Below Cal | #      | 40     |
| 5) Bromomethane                | 2.77  | 94   | 60       | Below Cal | #      | 73     |
| 11) Tert butyl alcohol         | 5.21  | 59   | 60       | Below Cal | #      | 72     |
| 16) Acetone                    | 4.16  | 43   | 55954    | 105.666   | ug/l   | 90     |
| 17) Carbon Disulfide           | 4.42  | 76   | 27291    | 2.619     | ug/l # | 90     |
| 20) Methylene Chloride         | 4.97  | 84   | 7193     | Below Cal | #      | 88     |
| 25) 2-Butanone                 | 7.22  | 43   | 8105     | 10.796    | ug/l # | 87     |
| 26) 2,2-Dichloropropane        | 7.18  | 77   | 1713     | Below Cal | #      | 53     |
| 31) Cyclohexane                | 7.98  | 56   | 7083     | 1.360     | ug/l # | 16     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 26571    | 4.860     | ug/l # | 52     |
| 37) Ethyl Acetate              | 7.22  | 43   | 8105     | 4.279     | ug/l # | 66     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 36480    | 6.167     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 116864   | 51.889    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 116864   | 129.366   | ug/l # | 12     |

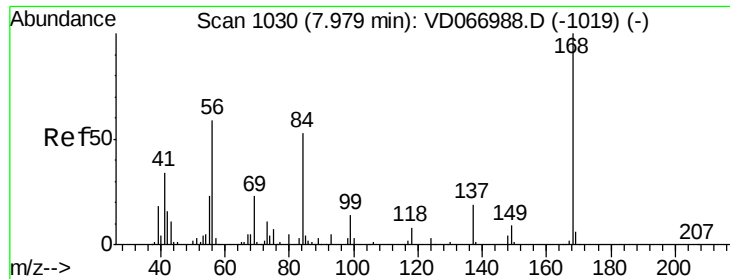
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100720\  
Data File : VD067156.D  
Acq On : 07 Oct 2020 16:56  
Operator : VA/SY  
Sample : L4273-19  
Misc : 4.84G/5.00ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10

Quant Time: Oct 08 07:24:33 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# 1030

Delta R.T. 0.00 min

Lab File: VD067156.D

Acq: 07 Oct 2020 16:56

Instrument :

MSVOA\_D

ClientSampleID :

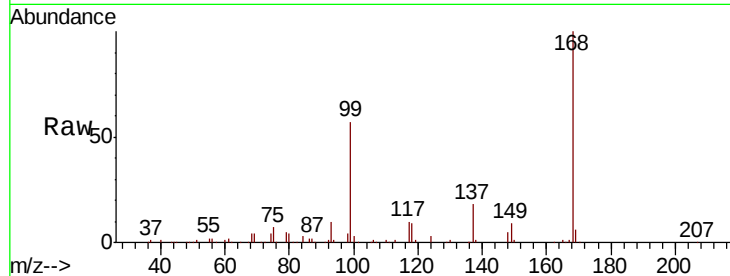
SB-10

Tot Ion:168 Resp: 360151

Ion Ratio Lower Upper

168 100

99 57.4 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

150000

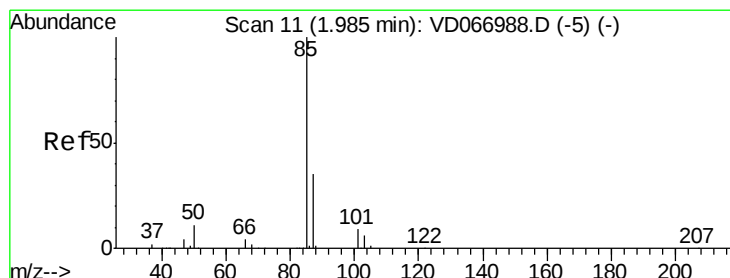
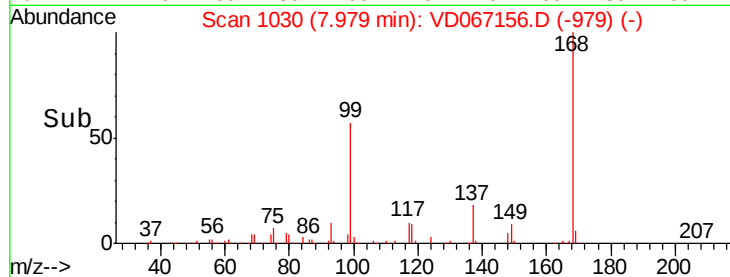
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067156.D

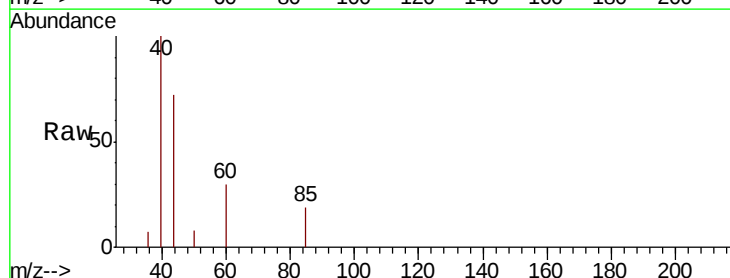
Acq: 07 Oct 2020 16:56

Tgt Ion: 85 Resp: 519

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): V

Ion 86.90 (86.60 to 87.60): V

1.99

500

400

300

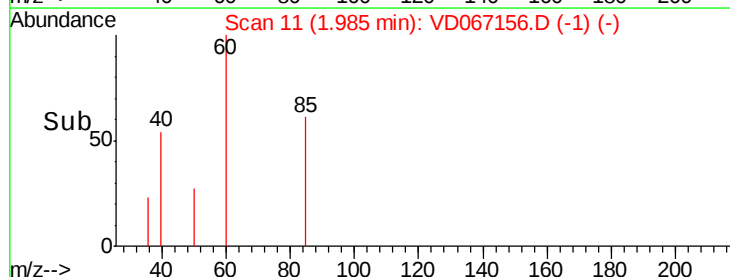
200

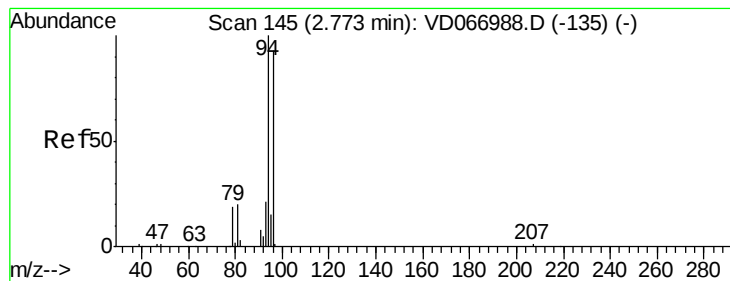
100

0

Time-->

1.96 1.98 2.00 2.02





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067156.D

Acq: 07 Oct 2020 16:56

Instrument :

MSVOA\_D

ClientSampled :

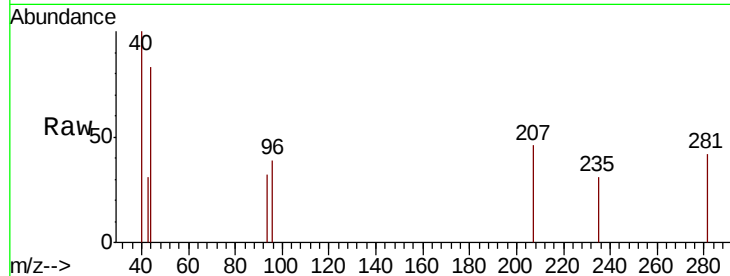
SB-10

Tot Ion: 94 Resp: 60

Ion Ratio Lower Upper

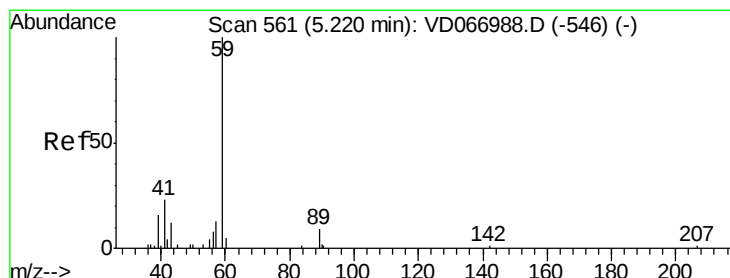
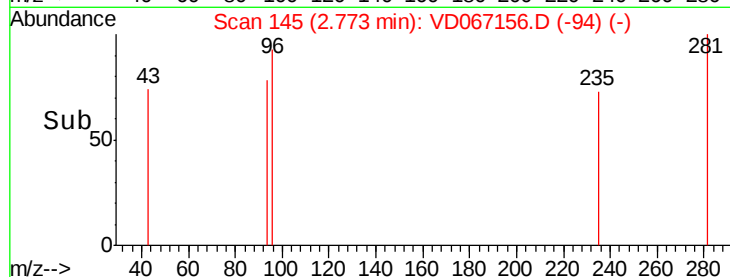
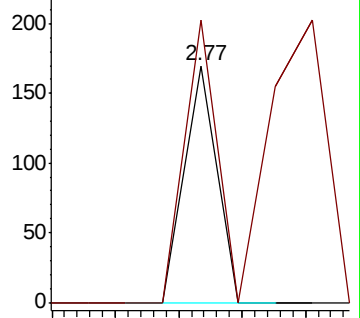
94 100

96 119.4 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: 5.21 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD067156.D

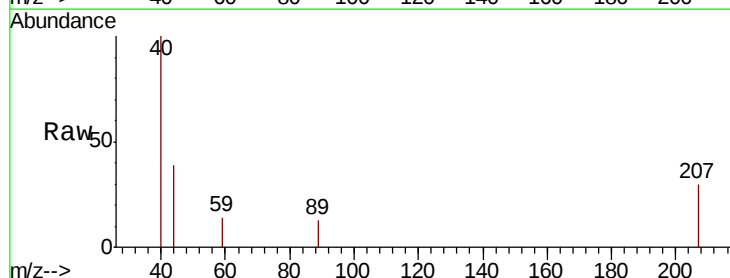
Acq: 07 Oct 2020 16:56

Tgt Ion: 59 Resp: 60

Ion Ratio Lower Upper

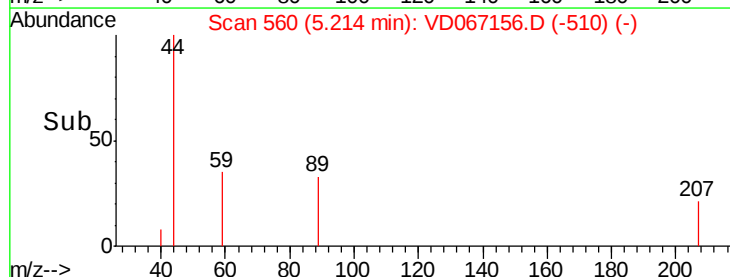
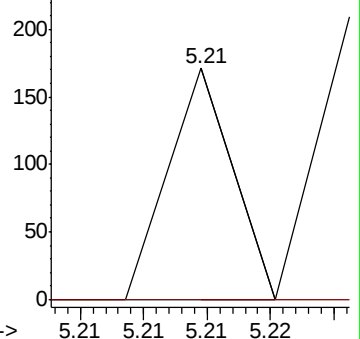
59 100

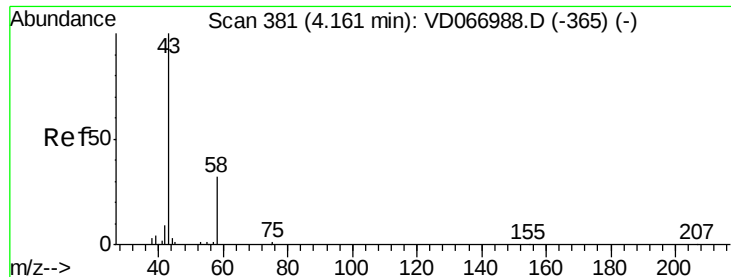
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 105.666 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD067156.D

Acq: 07 Oct 2020 16:56

Instrument :

MSVOA\_D

ClientSampleId :

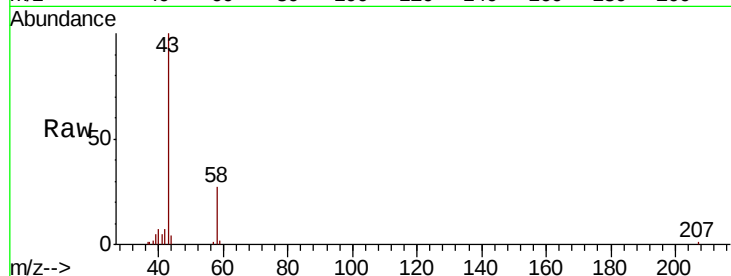
SB-10

Tot Ion: 43 Resp: 55954

Ion Ratio Lower Upper

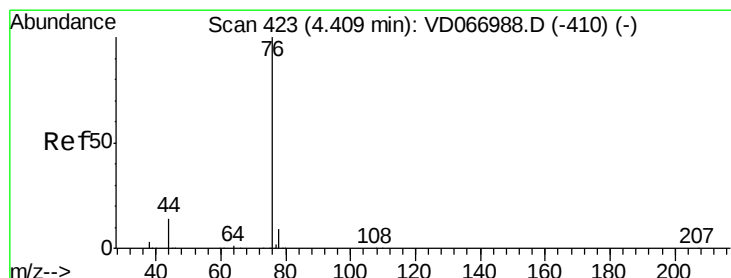
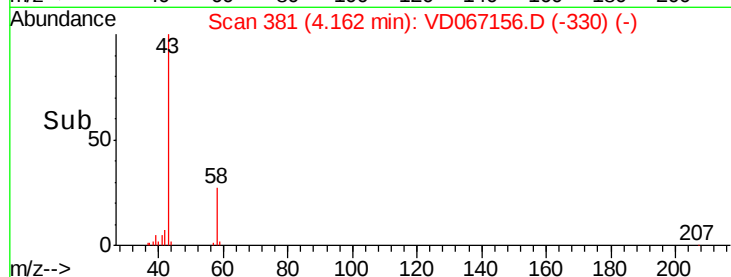
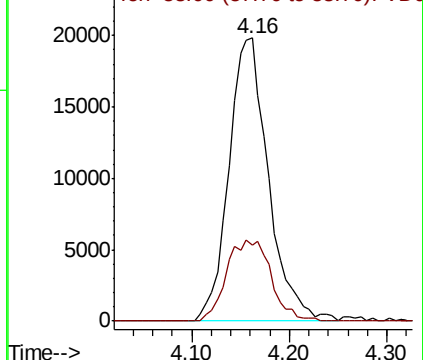
43 100

58 27.0 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#17

Carbon Disulfide

Concen: 2.619 ug/l

RT: 4.42 min Scan# 425

Delta R.T. 0.01 min

Lab File: VD067156.D

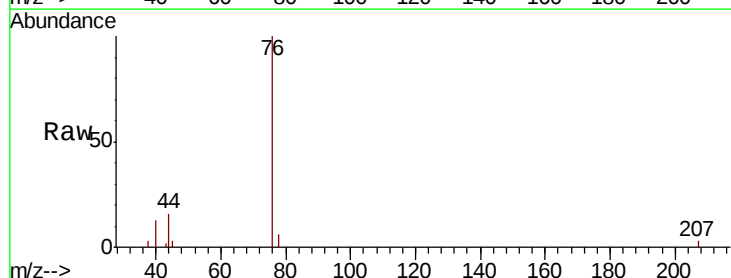
Acq: 07 Oct 2020 16:56

Tgt Ion: 76 Resp: 27291

Ion Ratio Lower Upper

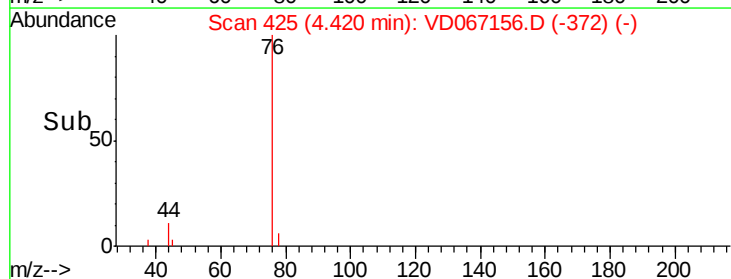
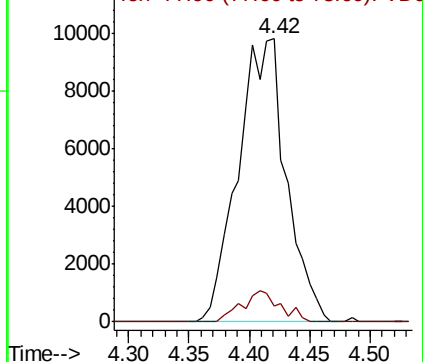
76 100

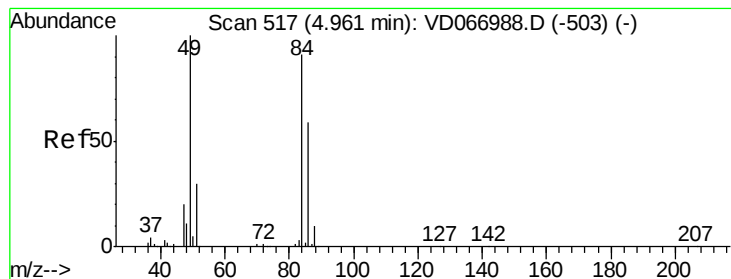
78 5.6 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067156.D

Acq: 07 Oct 2020 16:56

Instrument :

MSVOA\_D

ClientSampleId :

SB-10

Tot Ion: 84 Resp: 7193

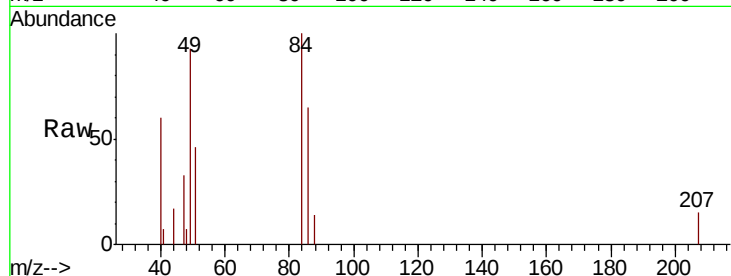
Ion Ratio Lower Upper

84 100

49 92.9 88.2 132.2

51 45.7 26.6 39.8#

86 64.8 52.1 78.1

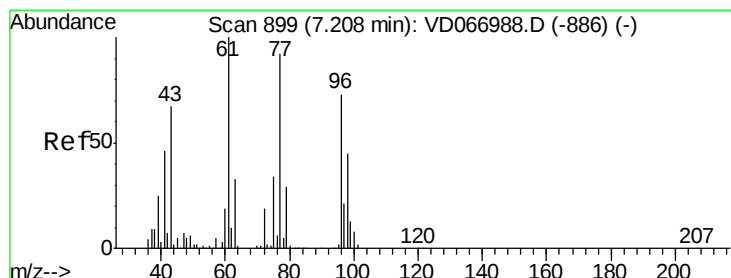
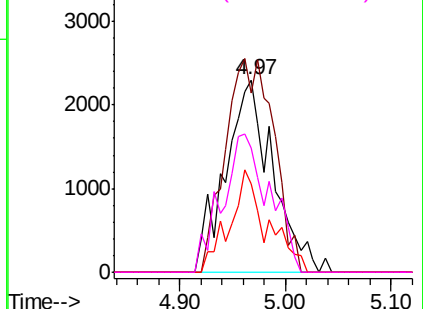
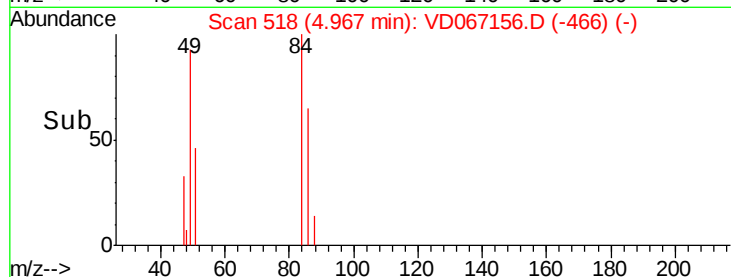


Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 10.796 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD067156.D

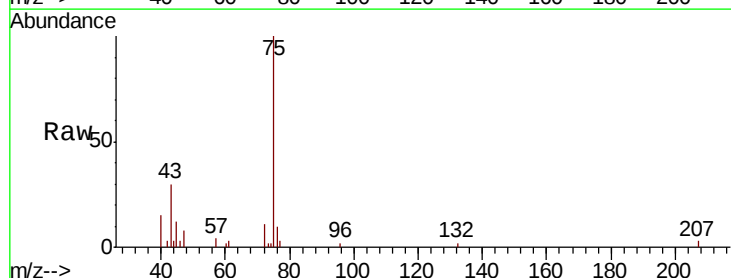
Acq: 07 Oct 2020 16:56

Tgt Ion: 43 Resp: 8105

Ion Ratio Lower Upper

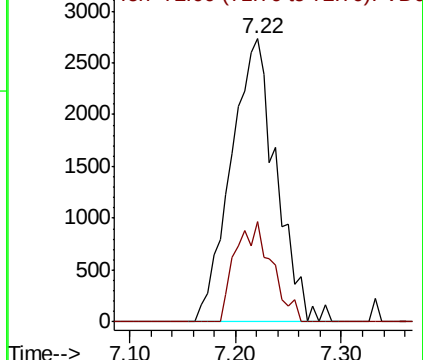
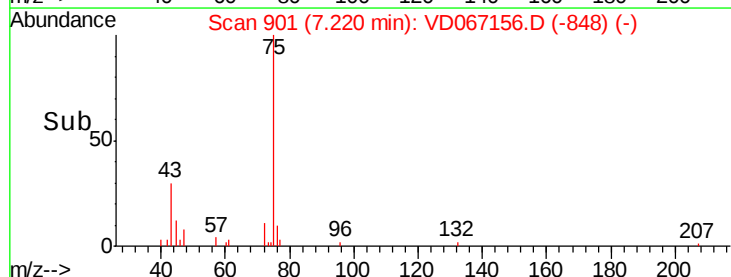
43 100

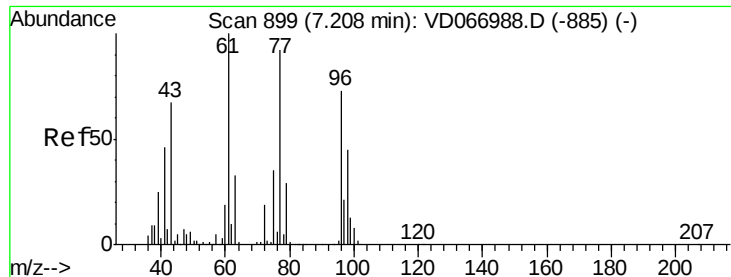
72 35.5 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

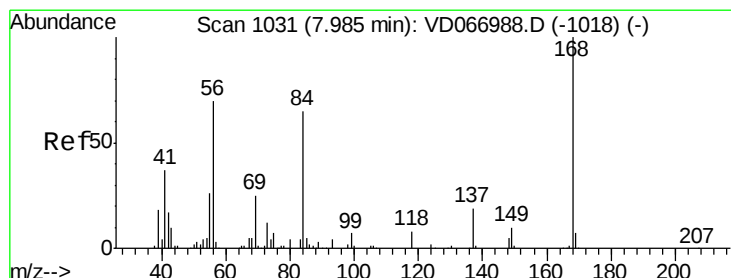
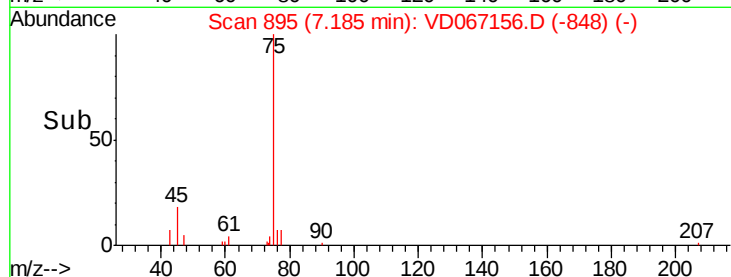
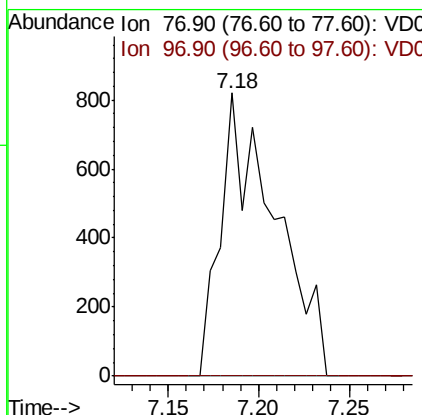
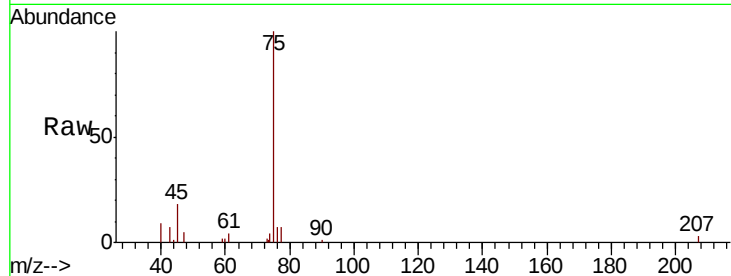




#26  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 7.18 min Scan# 895  
 Delta R.T. -0.02 min  
 Lab File: VD067156.D  
 Acq: 07 Oct 2020 16:56

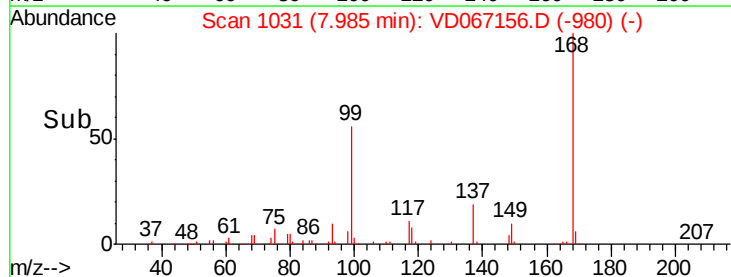
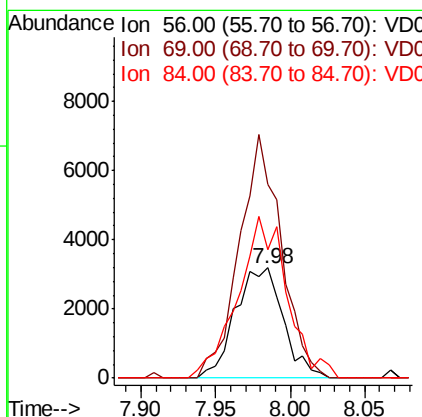
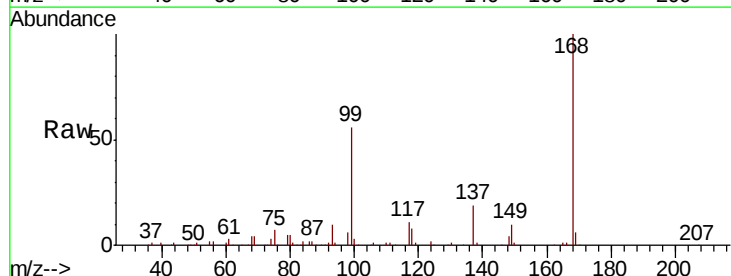
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-10

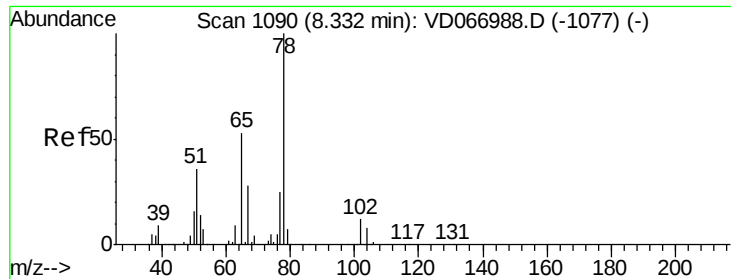
Tot Ion: 77 Resp: 1713  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 11.4 34.2#



#31  
 Cyclohexane  
 Concen: 1.360 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. 0.00 min  
 Lab File: VD067156.D  
 Acq: 07 Oct 2020 16:56

Tgt Ion: 56 Resp: 7083  
 Ion Ratio Lower Upper  
 56 100  
 69 175.6 29.0 43.6#  
 84 116.7 74.2 111.2#

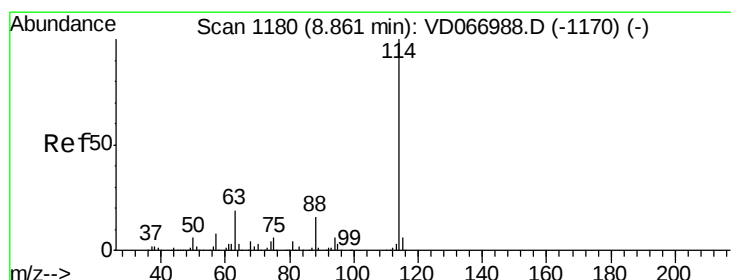
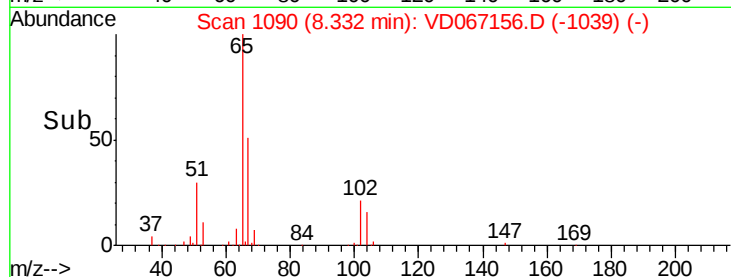
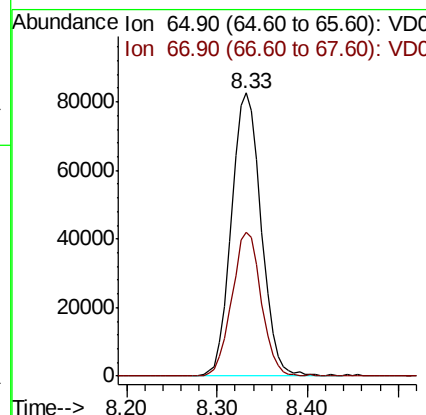
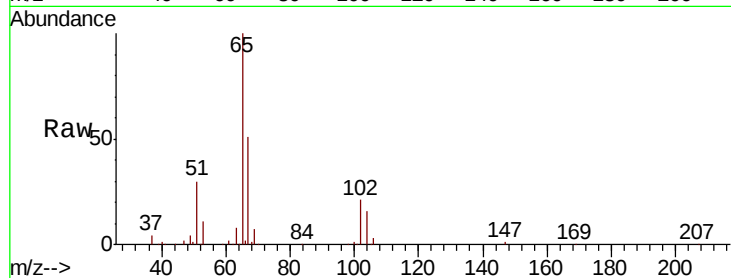




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.476 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. 0.00 min  
 Lab File: VD067156.D  
 Acq: 07 Oct 2020 16:56

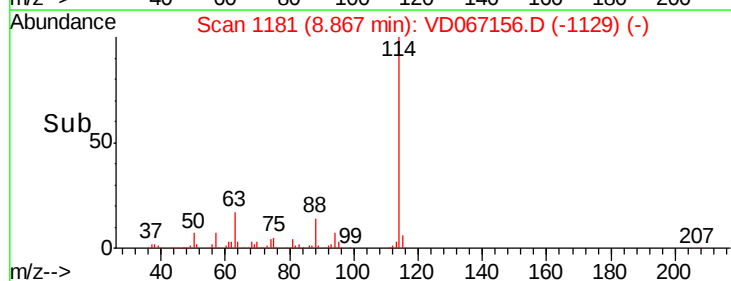
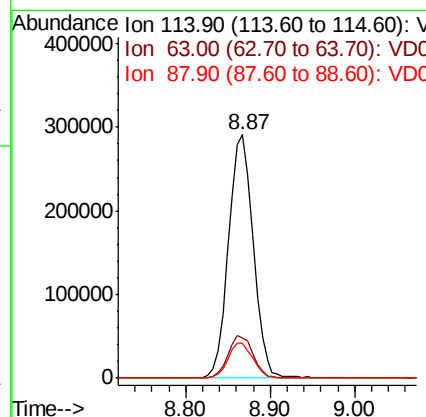
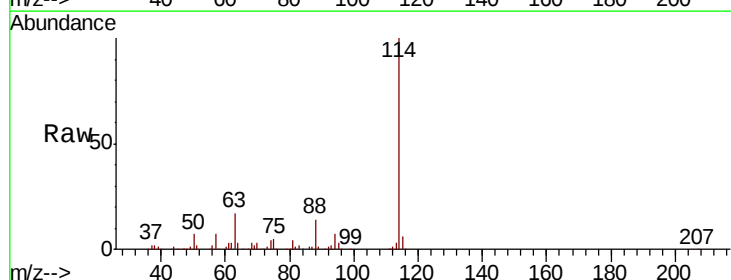
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-10

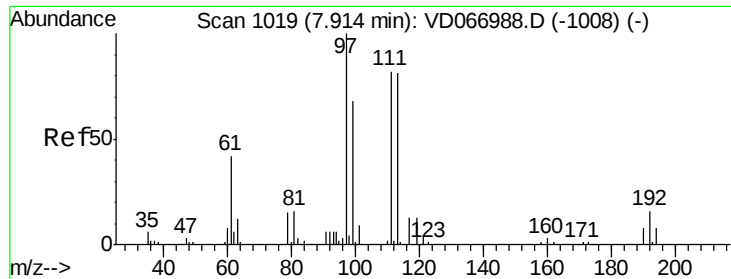
Tot Ion: 65 Resp: 188975  
 Ion Ratio Lower Upper  
 65 100  
 67 50.0 0.0 106.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.01 min  
 Lab File: VD067156.D  
 Acq: 07 Oct 2020 16:56

Tgt Ion: 114 Resp: 586528  
 Ion Ratio Lower Upper  
 114 100  
 63 16.7 0.0 38.4  
 88 14.4 0.0 31.2

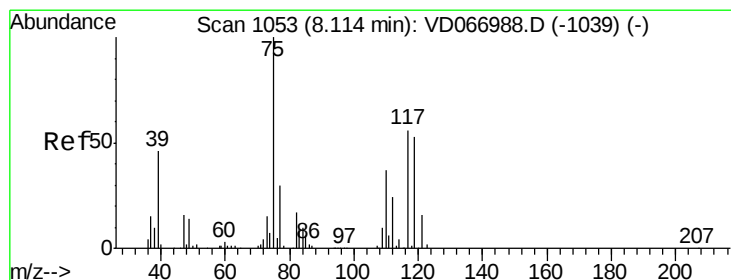
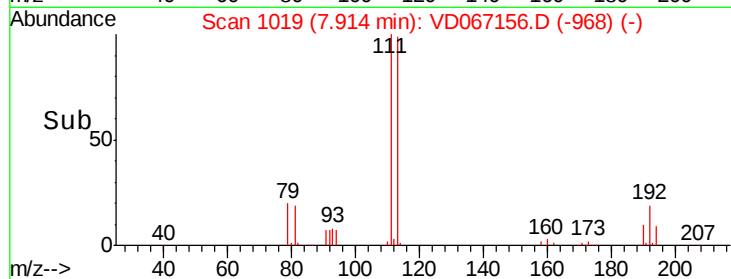
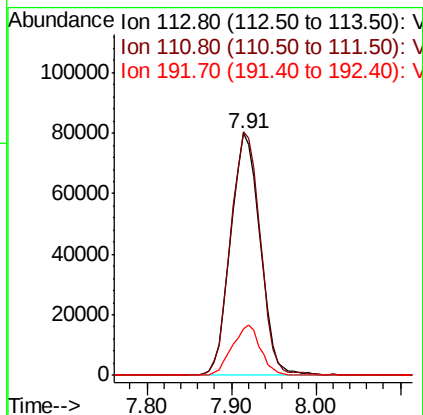
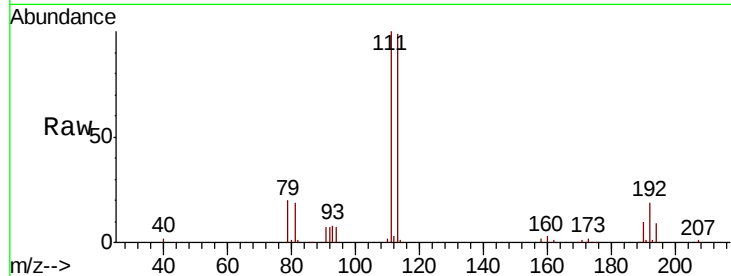




#35  
 Dibromofluoromethane  
 Concen: 50.328 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.00 min  
 Lab File: VD067156.D  
 Acq: 07 Oct 2020 16:56

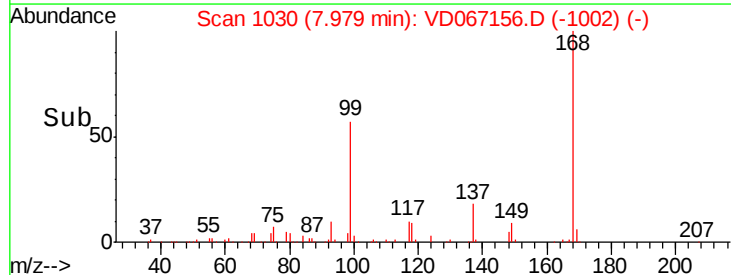
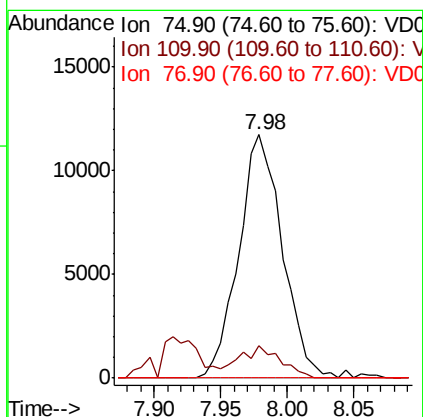
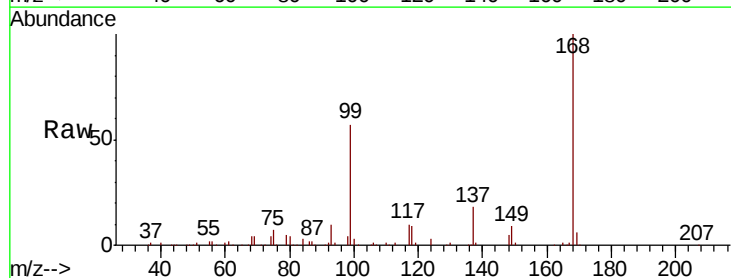
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 SB-10

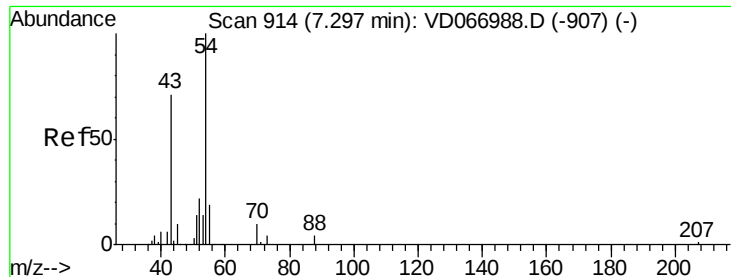
Tot Ion:113 Resp: 193252  
 Ion Ratio Lower Upper  
 113 100  
 111 101.1 83.0 124.4  
 192 19.7 15.5 23.3



#36  
 1,1-Dichloropropene  
 Concen: 4.860 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD067156.D  
 Acq: 07 Oct 2020 16:56

Tgt Ion: 75 Resp: 26571  
 Ion Ratio Lower Upper  
 75 100  
 110 12.6 18.4 55.0#  
 77 0.0 24.8 37.2#

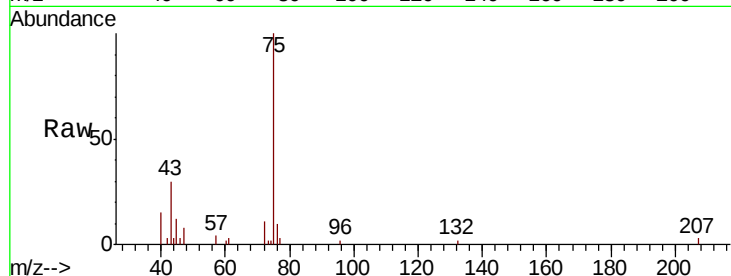




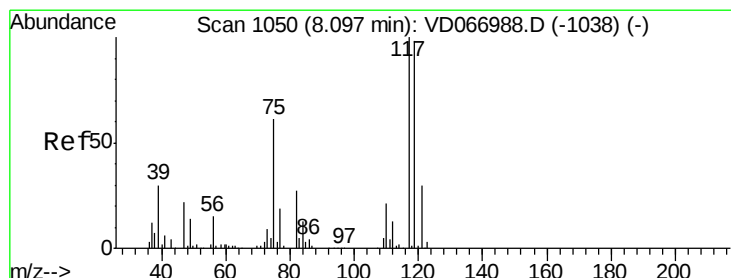
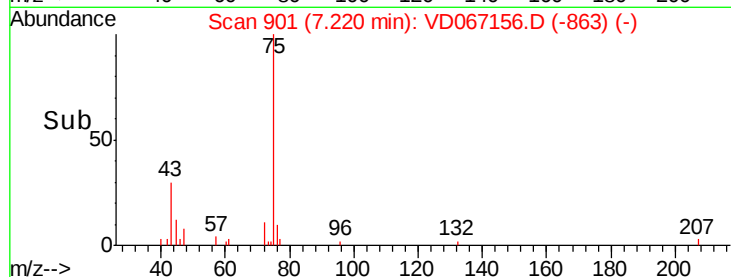
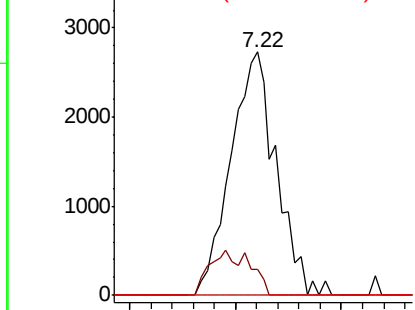
#37  
Ethyl Acetate  
Concen: 4.279 ug/l  
RT: 7.22 min Scan# 901  
Delta R.T. -0.08 min  
Lab File: VD067156.D  
Acq: 07 Oct 2020 16:56

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10

Tot Ion: 43 Resp: 8105  
Ion Ratio Lower Upper  
43 100  
61 0.0 12.5 18.7#  
70 0.0 9.4 14.0#

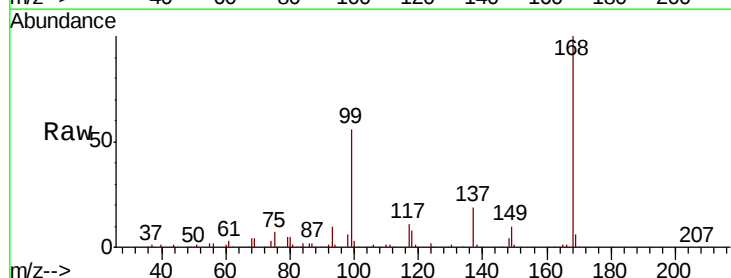


Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 70.00 (69.70 to 70.70): VDC

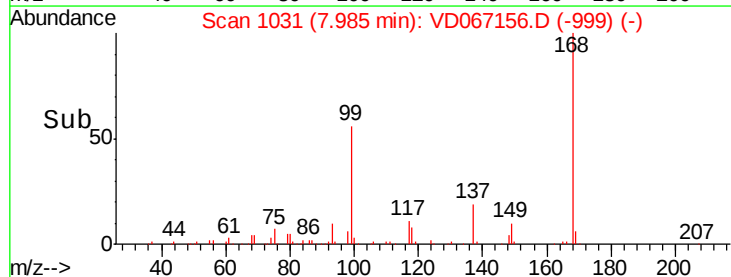
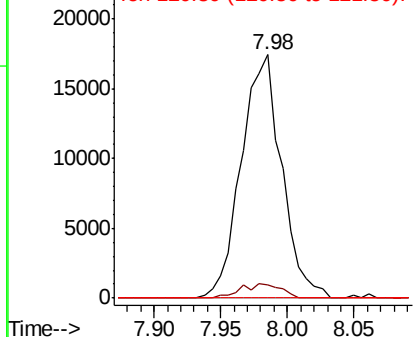


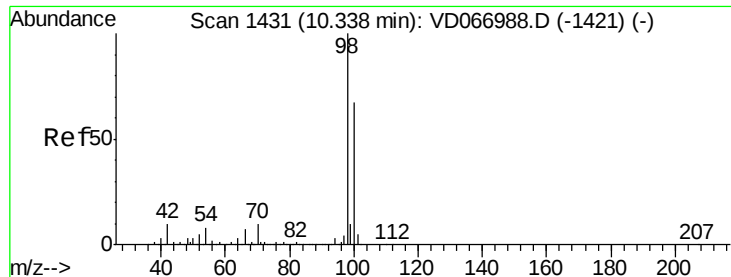
#38  
Carbon Tetrachloride  
Concen: 6.167 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD067156.D  
Acq: 07 Oct 2020 16:56

Tgt Ion: 117 Resp: 36480  
Ion Ratio Lower Upper  
117 100  
119 5.2 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





#50

Toluene-d8

Concen: 48.766 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067156.D

Acq: 07 Oct 2020 16:56

Instrument :

MSVOA\_D

ClientSampled :

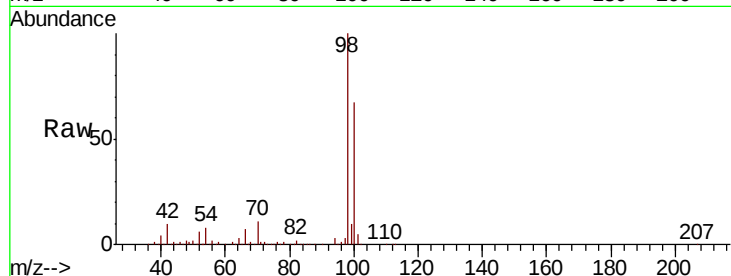
SB-10

Tot Ion: 98 Resp: 682344

Ion Ratio Lower Upper

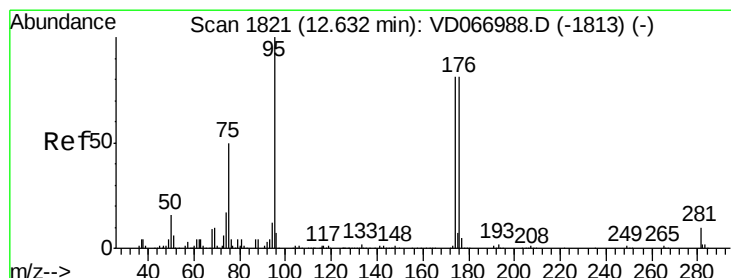
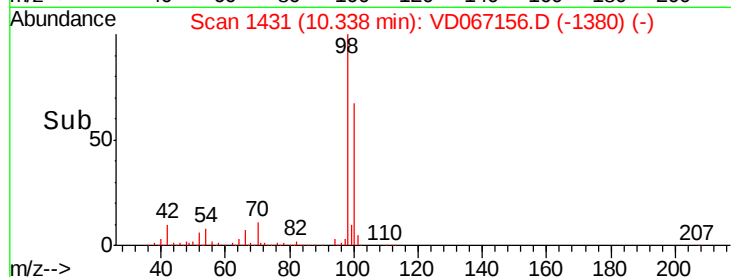
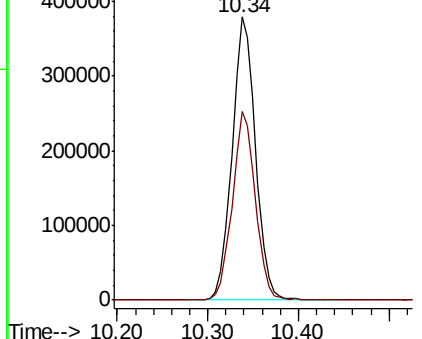
98 100

100 65.3 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 48.429 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067156.D

Acq: 07 Oct 2020 16:56

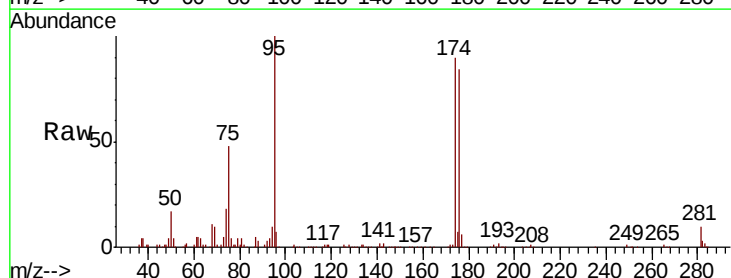
Tgt Ion: 95 Resp: 230038

Ion Ratio Lower Upper

95 100

174 88.1 0.0 167.6

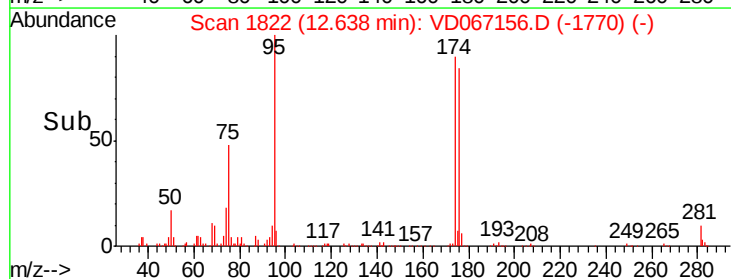
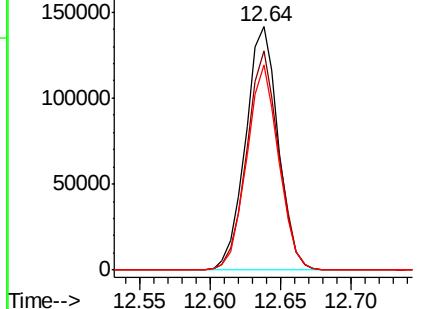
176 82.3 0.0 162.4

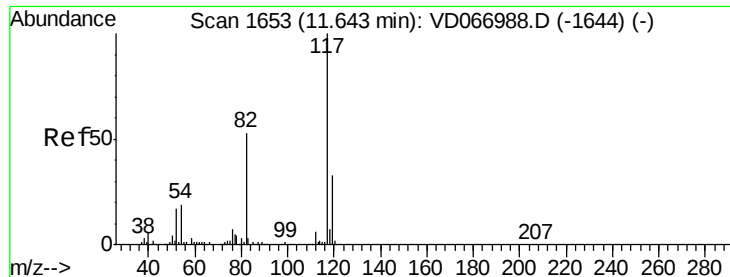


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

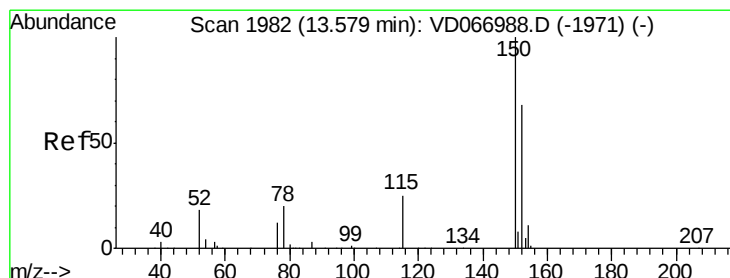
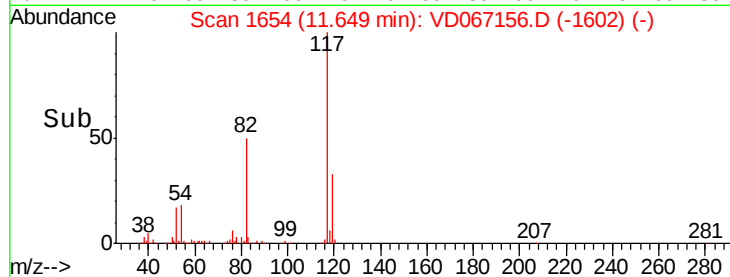
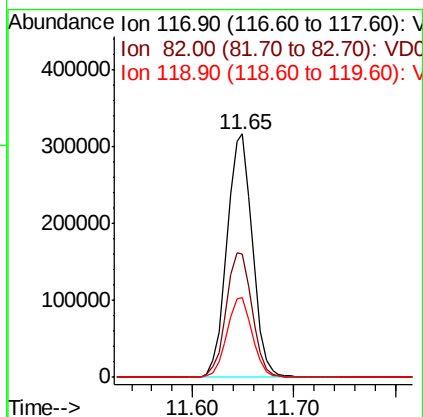
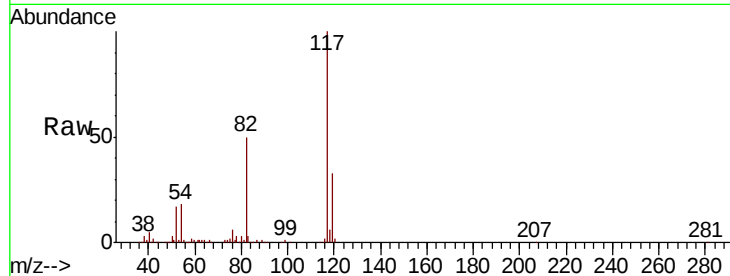




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.01 min  
Lab File: VD067156.D  
Acq: 07 Oct 2020 16:56

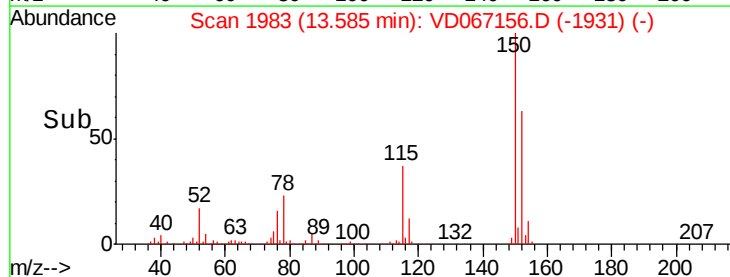
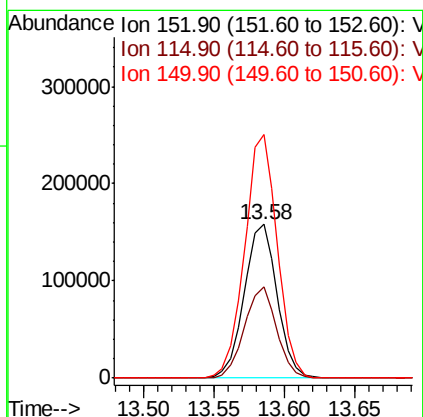
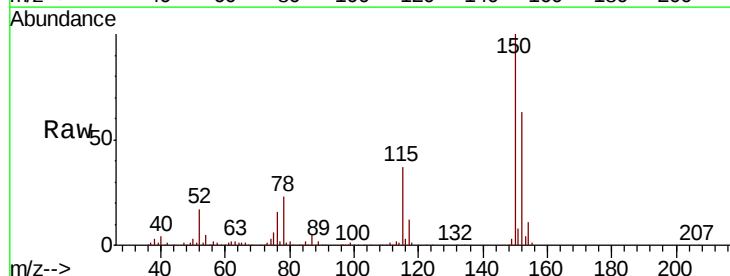
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-10

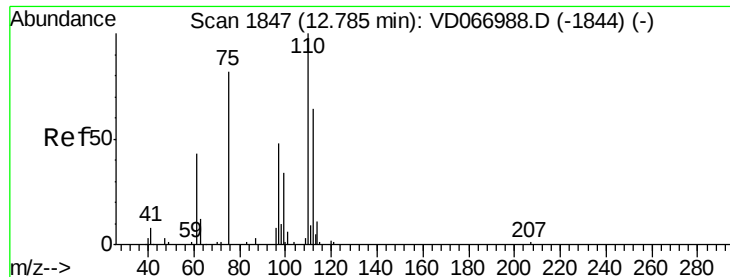
Tot Ion:117 Resp: 549592  
Ion Ratio Lower Upper  
117 100  
82 50.4 42.6 63.8  
119 32.5 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD067156.D  
Acq: 07 Oct 2020 16:56

Tgt Ion:152 Resp: 258565  
Ion Ratio Lower Upper  
152 100  
115 58.0 29.6 88.8  
150 156.7 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 51.889 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067156.D

Acq: 07 Oct 2020 16:56

Instrument :

MSVOA\_D

ClientSampleId :

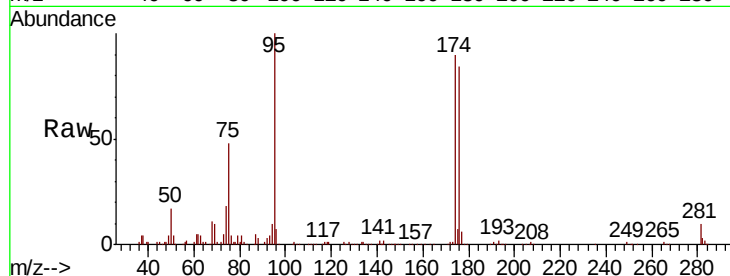
SB-10

Tot Ion: 75 Resp: 116864

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

80000

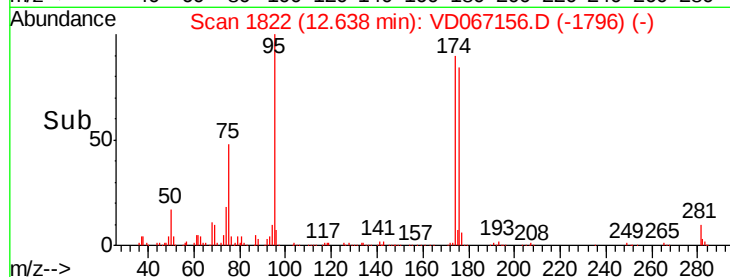
60000

40000

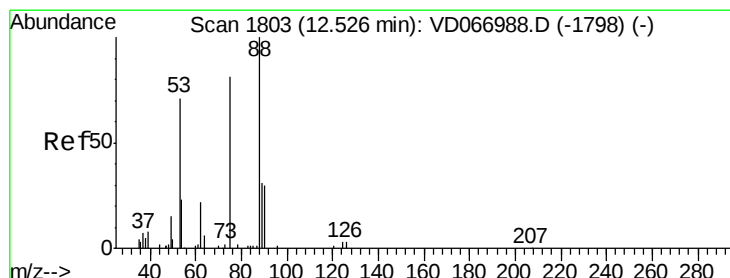
20000

0

12.55 12.60 12.65 12.70



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 129.366 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067156.D

Acq: 07 Oct 2020 16:56

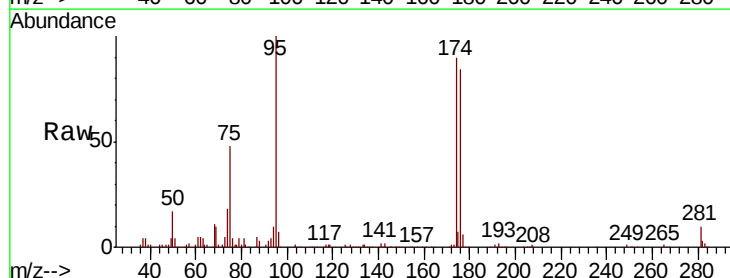
Tgt Ion: 75 Resp: 116864

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.1 38.9 58.3#



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

80000

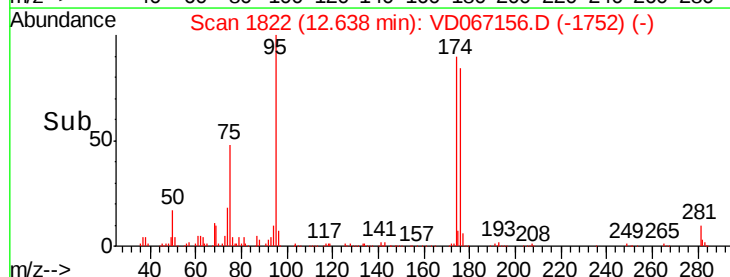
60000

40000

20000

0

12.55 12.60 12.65 12.70



Time-->