

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100620\  
 Data File : VD067113.D  
 Acq On : 06 Oct 2020 17:40  
 Operator : VA/SY  
 Sample : L4272-42  
 Misc : 7.51G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SC-7-(6.5)

Quant Time: Oct 07 01:12:15 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

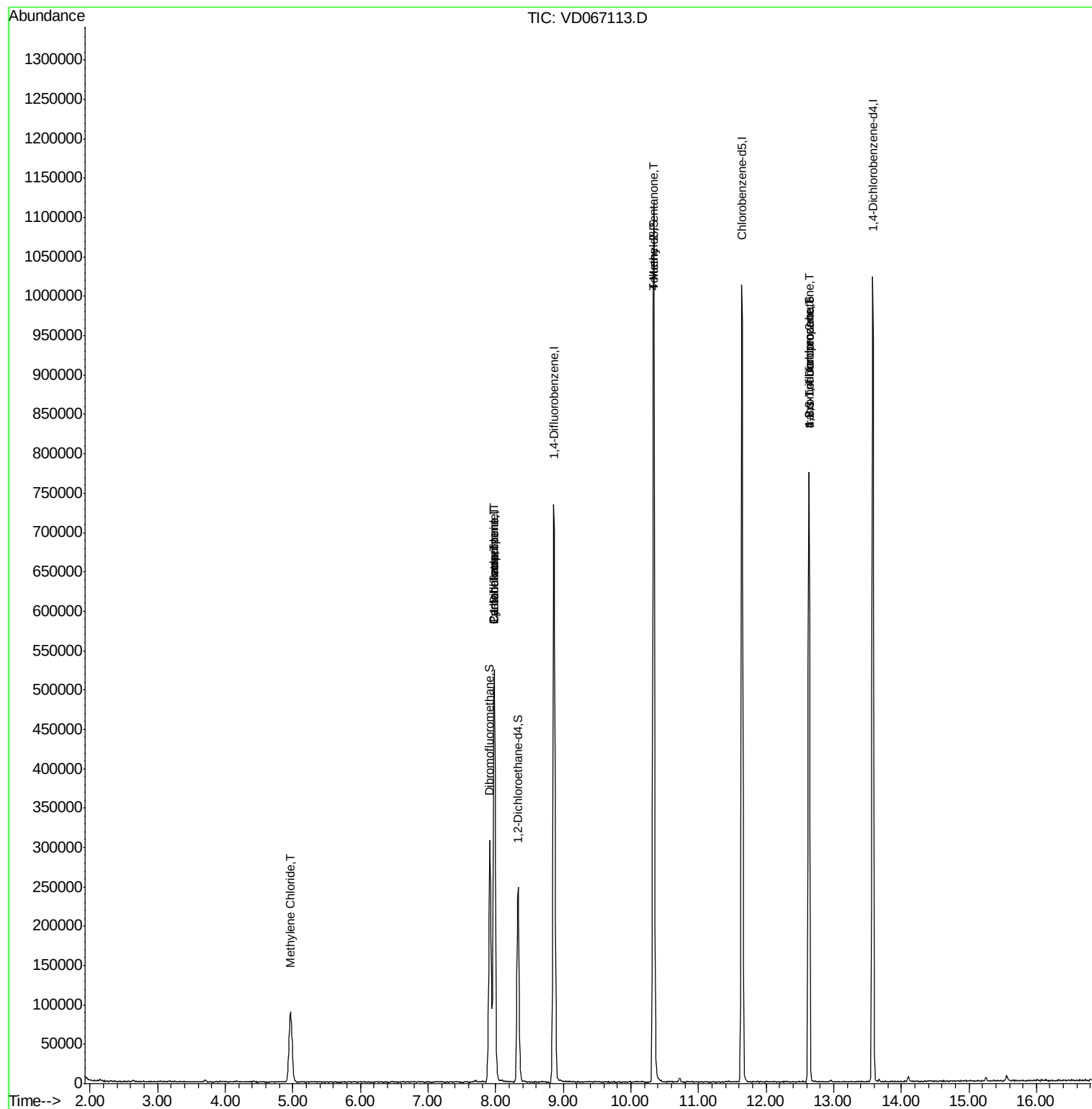
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 391667   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.86  | 114  | 665621   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.64 | 117  | 617973   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 287071   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 200798   | 53.23     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 106.46% |          |
| 35) Dibromofluoromethane       | 7.91  | 113  | 217864   | 50.00     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 100.00% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 787475   | 49.59     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 99.18%  |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 256441   | 47.57     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 95.14%  |          |
| Target Compounds               |       |      |          |           |         |          |
| 5) Bromomethane                | 2.77  | 94   | 123      | Below Cal | #       | 3        |
| 20) Methylene Chloride         | 4.96  | 84   | 77337    | 13.633    | ug/l    | 93       |
| 31) Cyclohexane                | 7.97  | 56   | 7486     | 1.321     | ug/l #  | 18       |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 29363    | 4.733     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 39901    | 5.944     | ug/l #  | 14       |
| 51) 4-Methyl-2-Pentanone       | 10.33 | 43   | 3305     | 1.676     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 127905   | 51.152    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 127905   | 127.529   | ug/l #  | 12       |

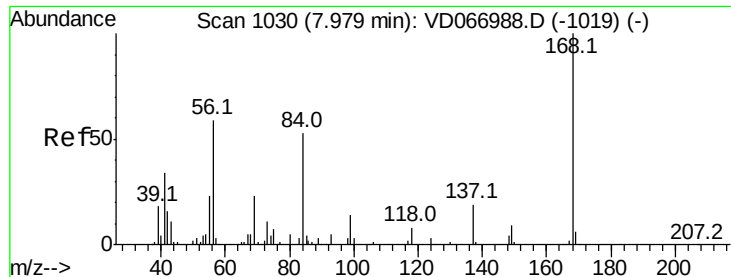
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SC-7-(6.5)

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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: VD067113.D

Acq: 06 Oct 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

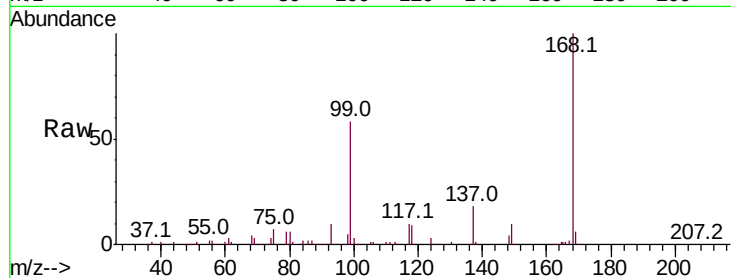
SC-7-(6.5)

Tot Ion:168 Resp: 391667

Ion Ratio Lower Upper

168 100

99 57.7 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

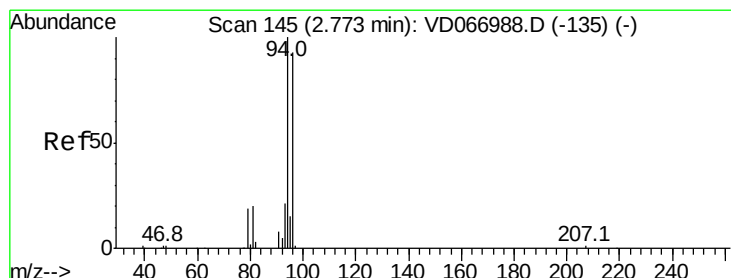
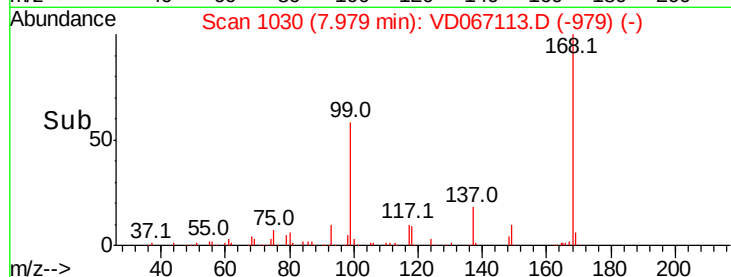
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067113.D

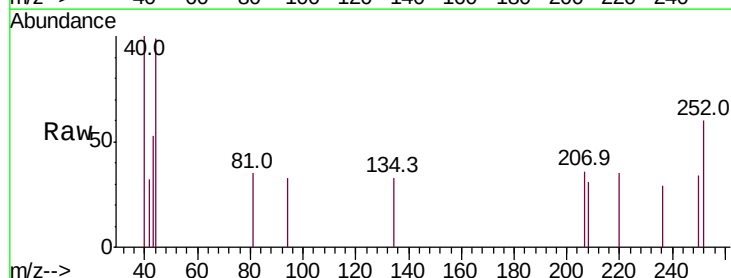
Acq: 06 Oct 2020 17:40

Tgt Ion: 94 Resp: 123

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

250

200

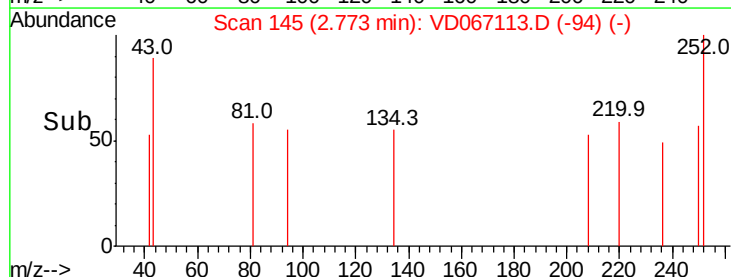
150

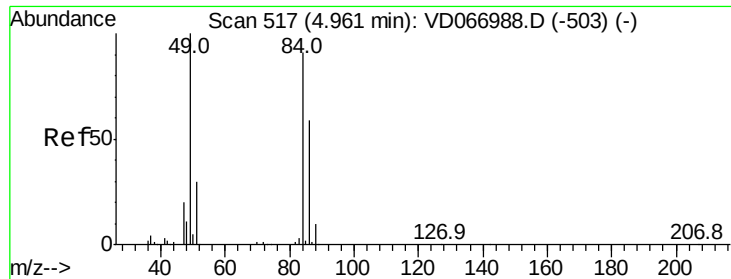
100

50

0

Time-->

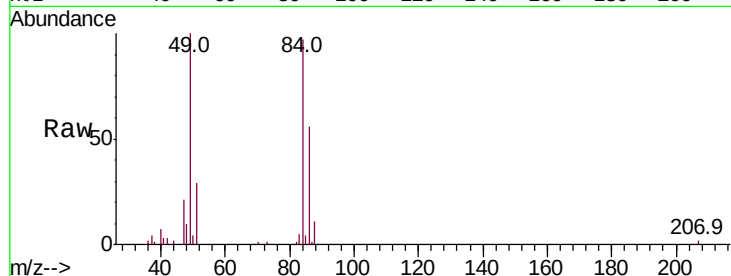




#20  
Methvlene Chloride  
Concen: 13.633 ug/l  
RT: 4.96 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: VD067113.D  
Acq: 06 Oct 2020 17:40

Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-7-(6.5)

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 77337 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 103.4 | 88.2  | 132.2 |
| 51       | 29.5  | 26.6  | 39.8  |
| 86       | 57.5  | 52.1  | 78.1  |



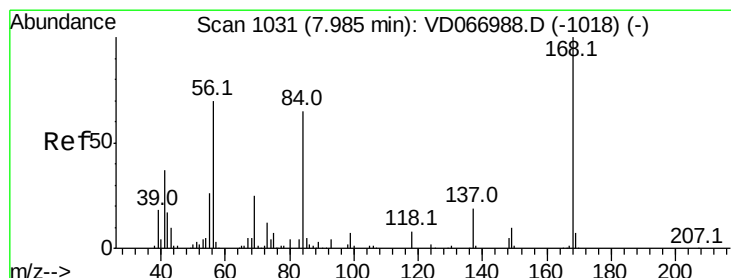
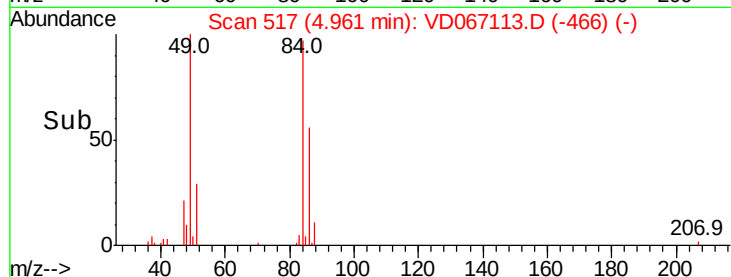
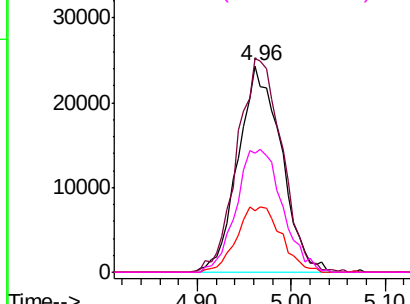
Abundance

Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

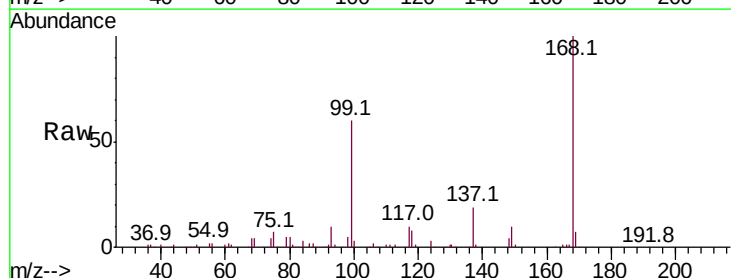
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#31  
Cyclohexane  
Concen: 1.321 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD067113.D  
Acq: 06 Oct 2020 17:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 7486  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 181.9 | 29.0  | 43.6# |
| 84       | 109.6 | 74.2  | 111.2 |

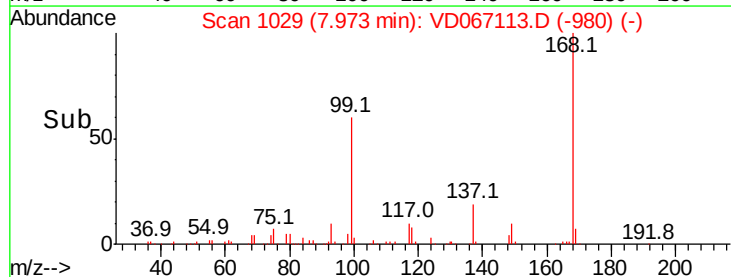
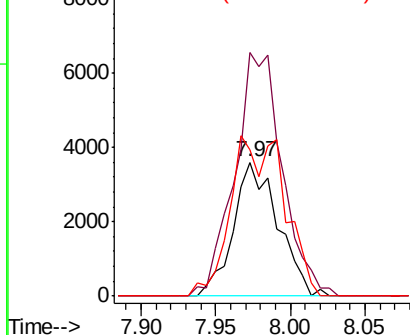


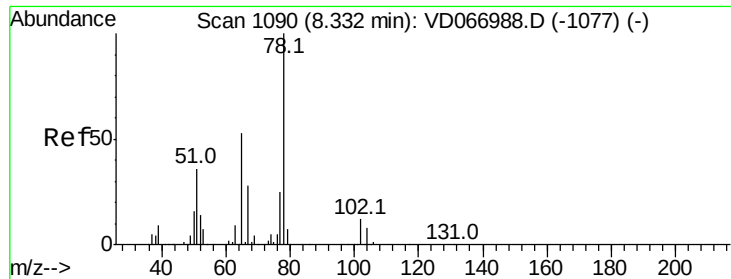
Abundance

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

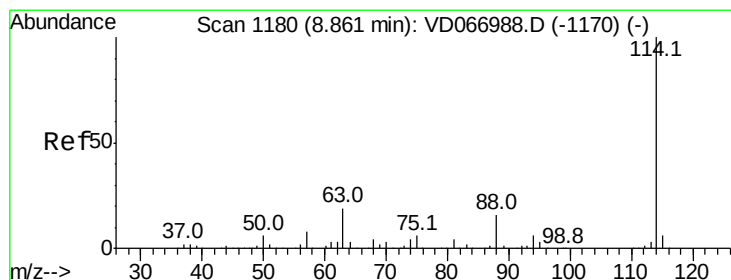
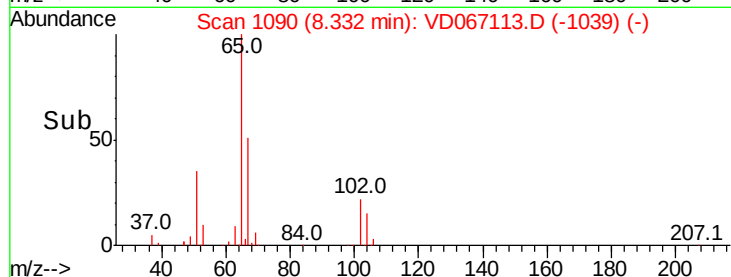
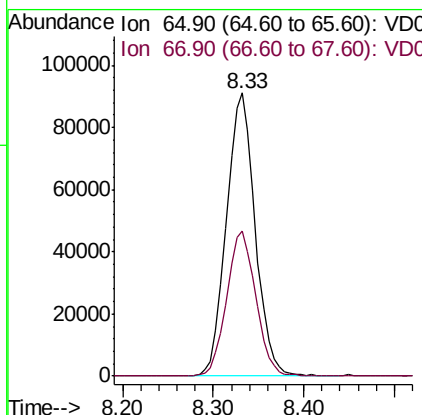
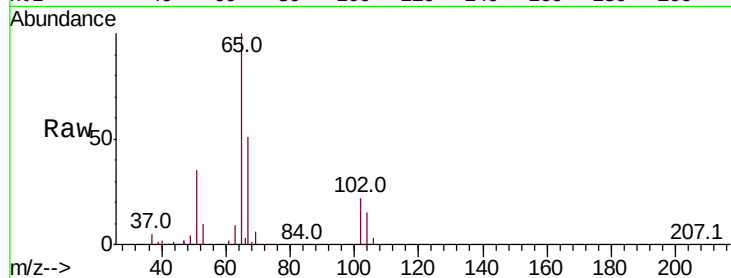




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.227 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. 0.00 min  
 Lab File: VD067113.D  
 Acq: 06 Oct 2020 17:40

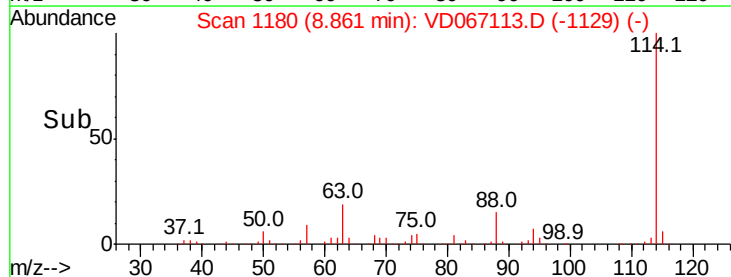
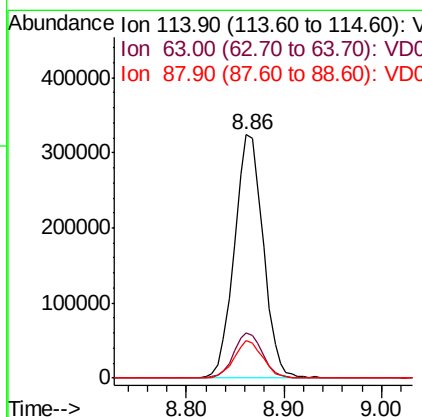
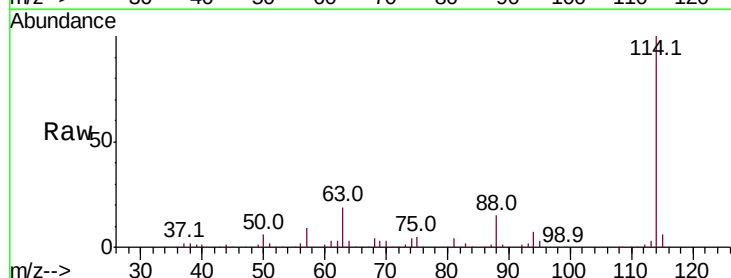
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SC-7-(6.5)

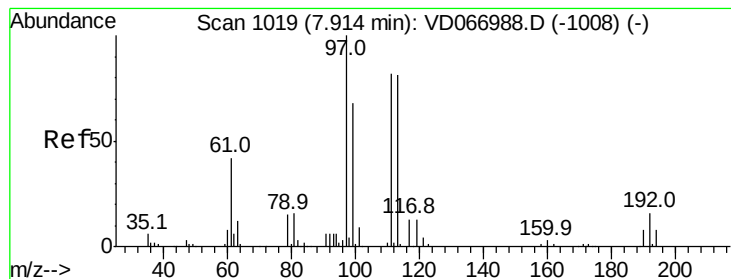
Tot Ion: 65 Resp: 200798  
 Ion Ratio Lower Upper  
 65 100  
 67 52.1 0.0 106.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. 0.00 min  
 Lab File: VD067113.D  
 Acq: 06 Oct 2020 17:40

Tgt Ion: 114 Resp: 665621  
 Ion Ratio Lower Upper  
 114 100  
 63 18.7 0.0 38.4  
 88 15.3 0.0 31.2





#35

Dibromofluoromethane

Concen: 49.995 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067113.D

Acq: 06 Oct 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

SC-7-(6.5)

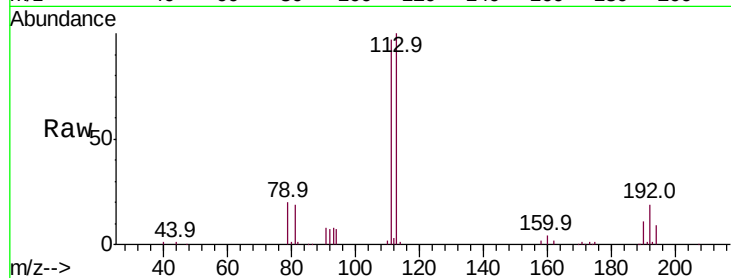
Tot Ion:113 Resp: 217864

Ion Ratio Lower Upper

113 100

111 101.9 83.0 124.4

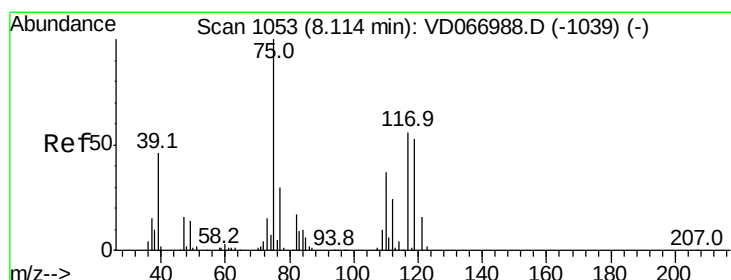
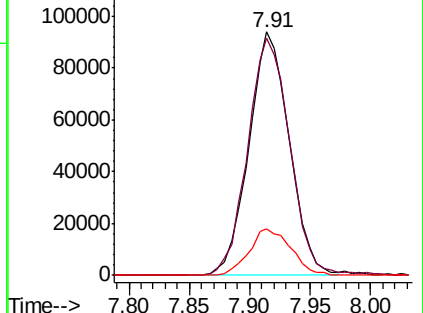
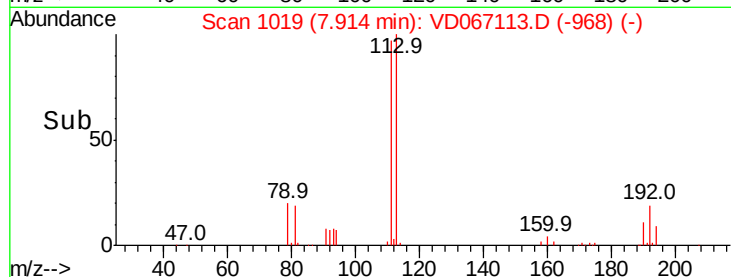
192 19.8 15.5 23.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.733 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067113.D

Acq: 06 Oct 2020 17:40

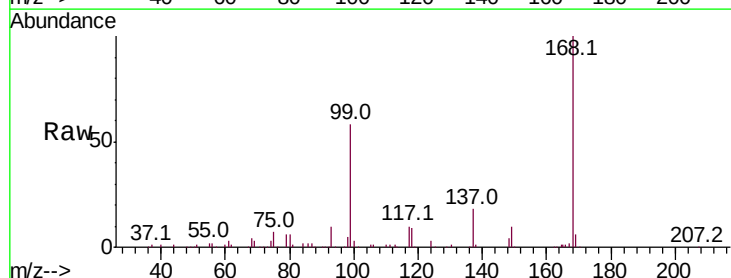
Tgt Ion: 75 Resp: 29363

Ion Ratio Lower Upper

75 100

110 9.8 18.4 55.0#

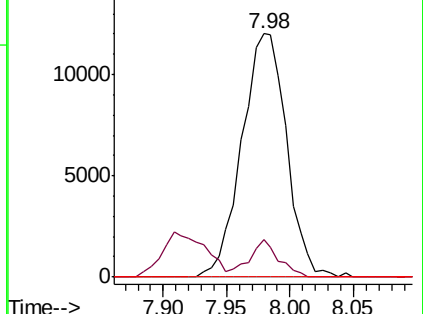
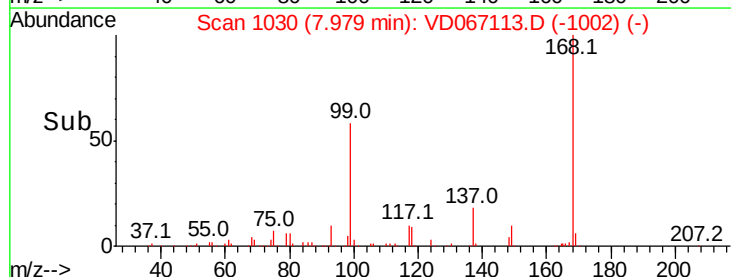
77 0.0 24.8 37.2#

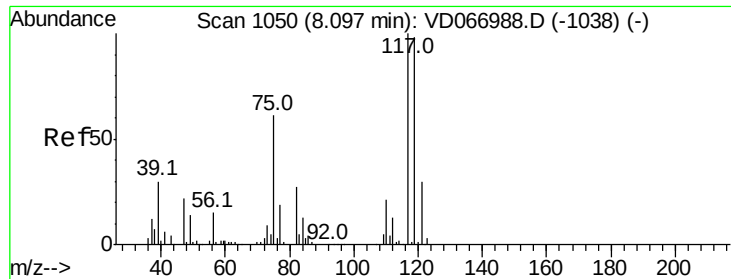


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.944 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067113.D

Acq: 06 Oct 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

SC-7-(6.5)

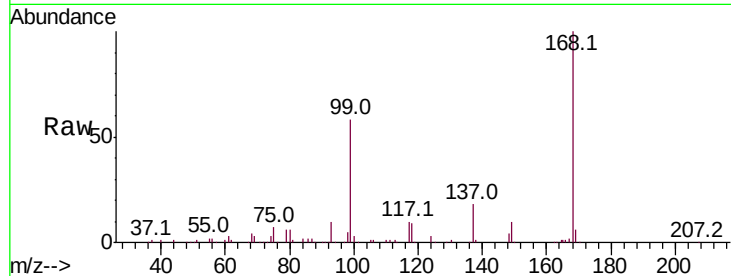
Tot Ion:117 Resp: 39901

Ion Ratio Lower Upper

117 100

119 3.9 78.7 118.1#

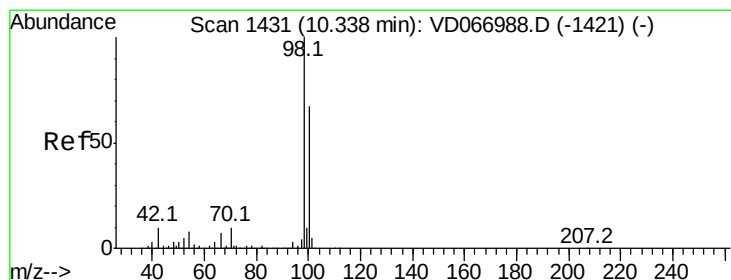
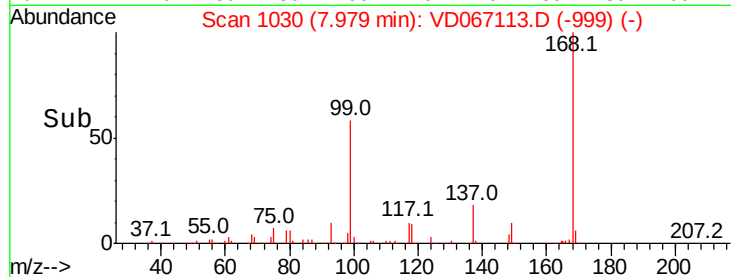
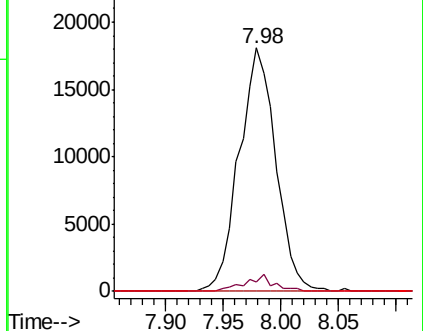
121 0.0 24.2 36.2#



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



#50

Toluene-d8

Concen: 49.593 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067113.D

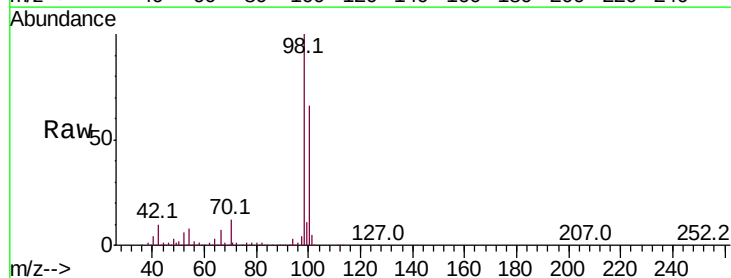
Acq: 06 Oct 2020 17:40

Tgt Ion: 98 Resp: 787475

Ion Ratio Lower Upper

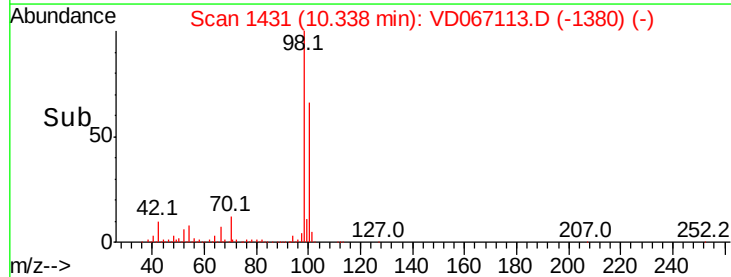
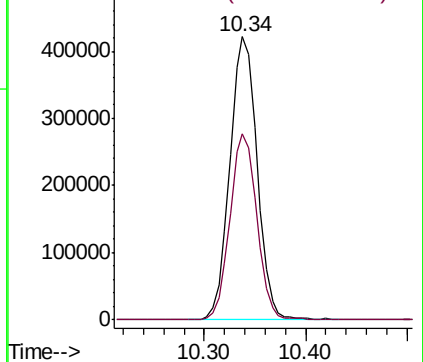
98 100

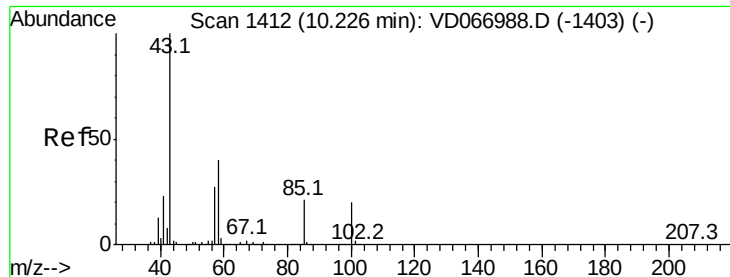
100 65.0 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.676 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. 0.11 min

Lab File: VD067113.D

Acq: 06 Oct 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

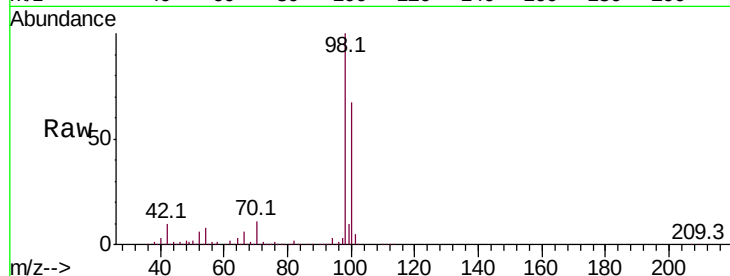
SC-7-(6.5)

Tot Ion: 43 Resp: 3305

Ion Ratio Lower Upper

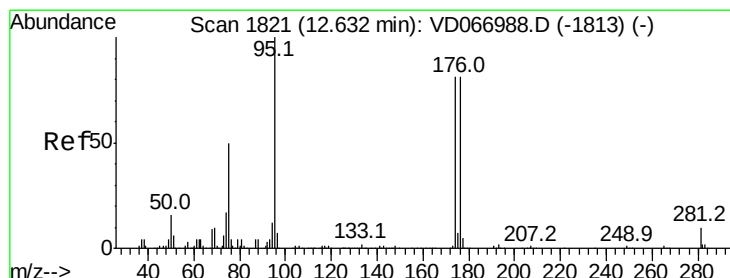
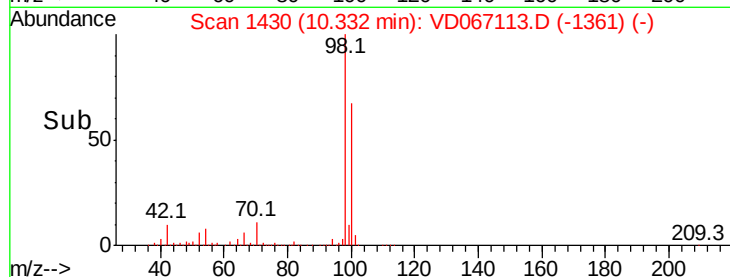
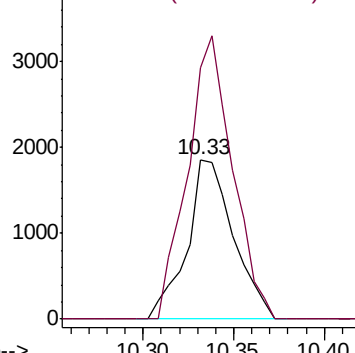
43 100

58 171.8 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 47.573 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067113.D

Acq: 06 Oct 2020 17:40

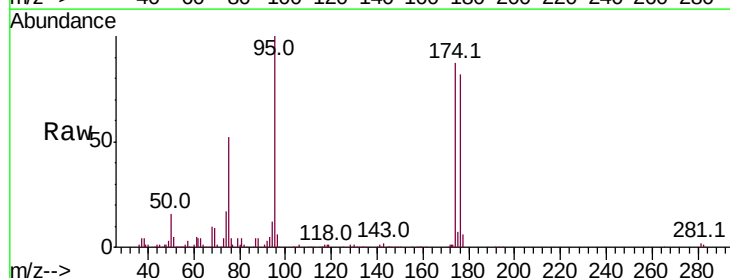
Tgt Ion: 95 Resp: 256441

Ion Ratio Lower Upper

95 100

174 85.0 0.0 167.6

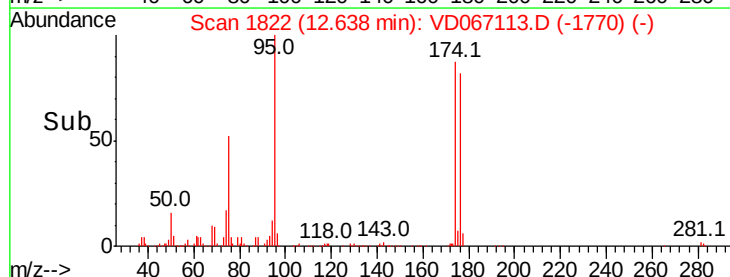
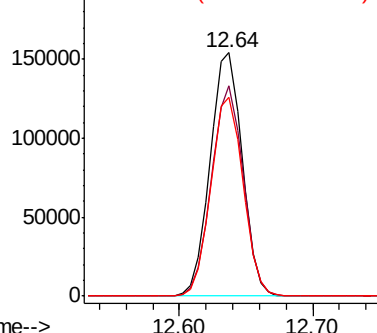
176 82.2 0.0 162.4



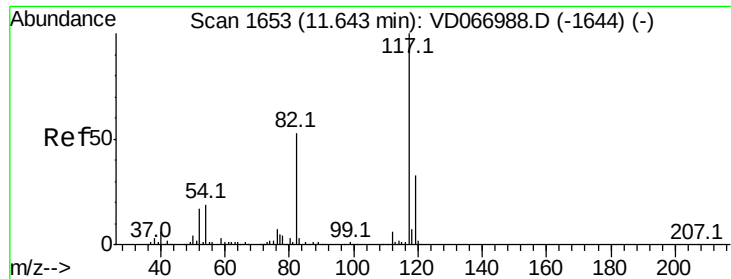
Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



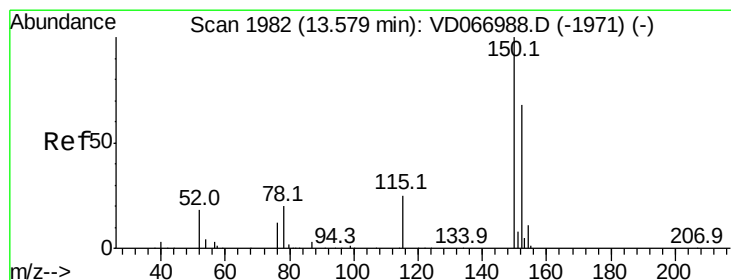
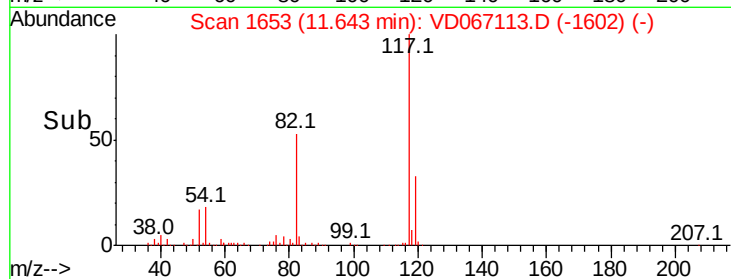
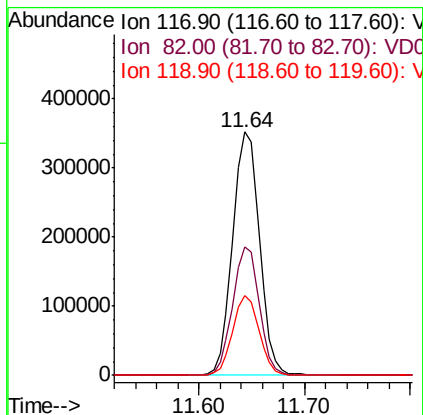
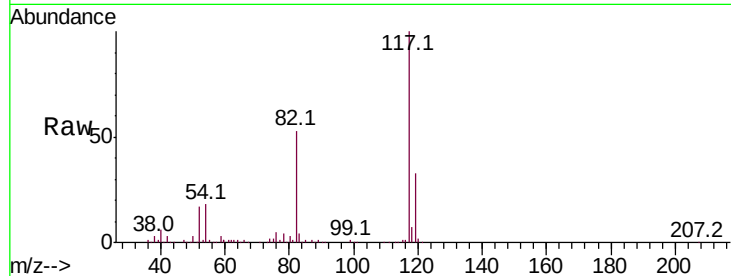




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD067113.D  
Acq: 06 Oct 2020 17:40

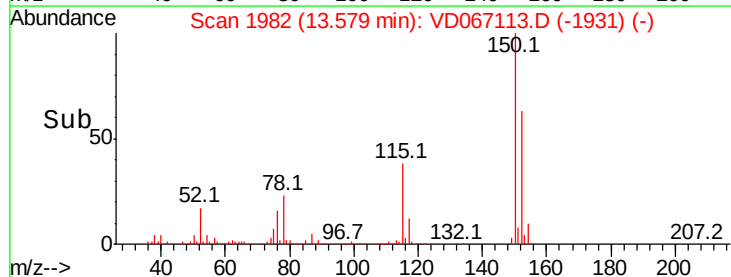
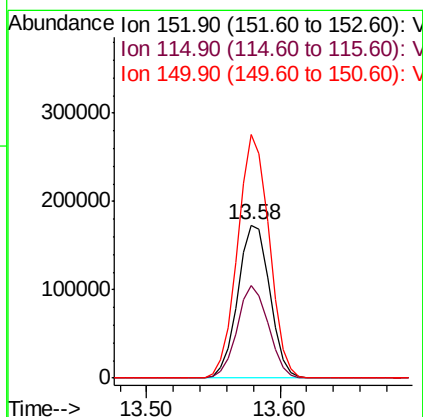
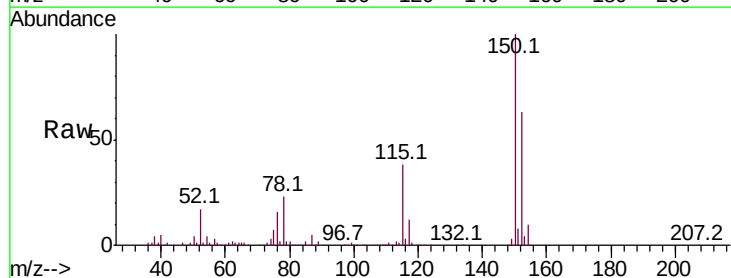
Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-7-(6.5)

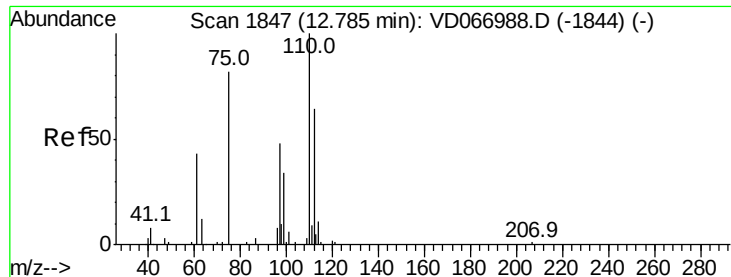
Tot Ion:117 Resp: 617973  
Ion Ratio Lower Upper  
117 100  
82 52.9 42.6 63.8  
119 32.9 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067113.D  
Acq: 06 Oct 2020 17:40

Tgt Ion:152 Resp: 287071  
Ion Ratio Lower Upper  
152 100  
115 59.4 29.6 88.8  
150 157.3 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 51.152 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067113.D

Acq: 06 Oct 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

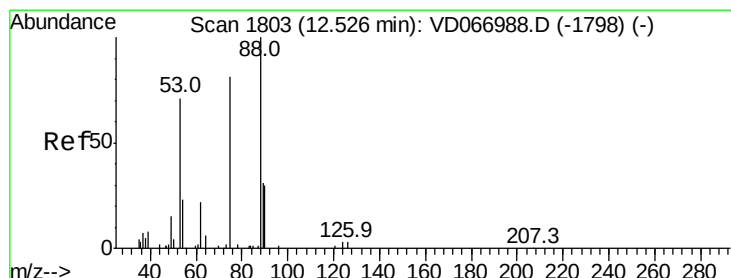
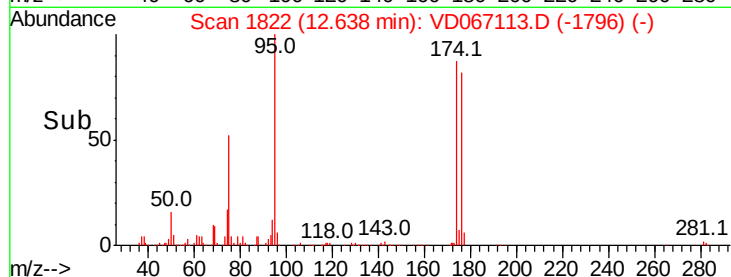
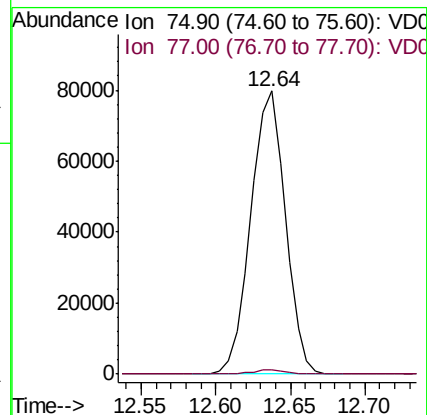
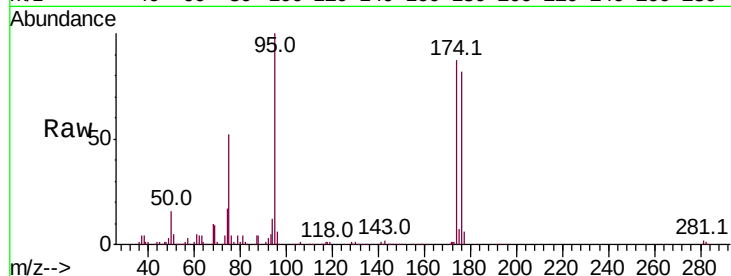
SC-7-(6.5)

Tot Ion: 75 Resp: 127905

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 127.529 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067113.D

Acq: 06 Oct 2020 17:40

Tgt Ion: 75 Resp: 127905

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.0 38.9 58.3#

