

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD122719\  
 Data File : VD064645.D  
 Acq On : 27 Dec 2019 15:23  
 Operator : VA/SY  
 Sample : K6431-06RE  
 Misc : 5.33G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-3-(0-2)

Quant Time: Dec 30 00:58:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 502719   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 754811   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 678576   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 320433   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.34   | 65  | 238012   | 53.69 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.38% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 239971   | 51.82 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.64% |      |
| 50) Toluene-d8              | 10.34  | 98  | 890792   | 50.23 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.46% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 286862   | 51.15 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.30% |      |

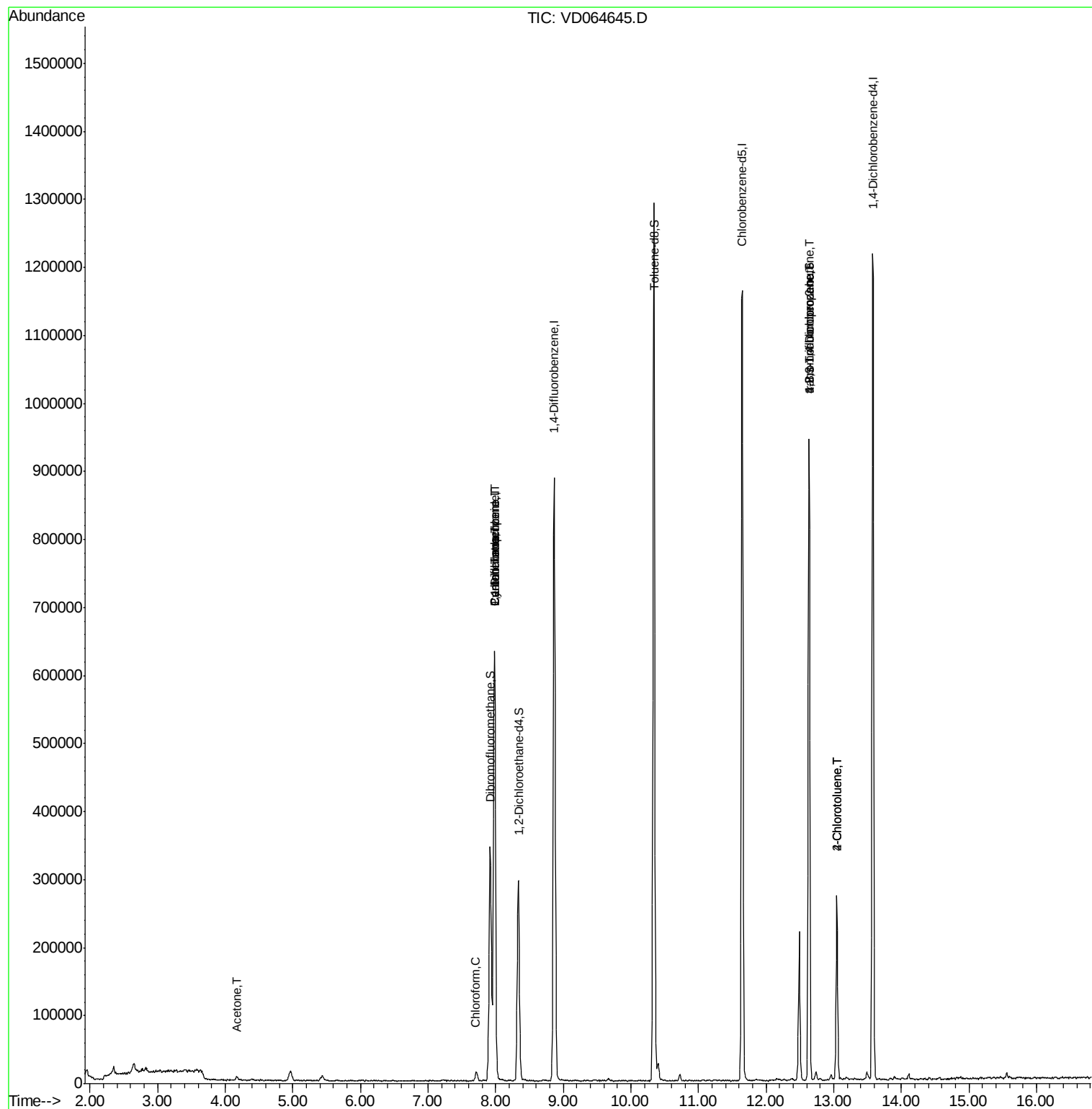
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 4.17  | 43   | 8652     | 12.356    | ug/l   | 93     |
| 20) Methylene Chloride         | 4.97  | 84   | 11044    | Below Cal |        | 87     |
| 30) Chloroform                 | 7.71  | 83   | 12117    | 1.399     | ug/l   | 89     |
| 31) Cyclohexane                | 7.98  | 56   | 9930     | 1.201     | ug/l # | 2      |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 36025    | 4.959     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 45938    | 5.930     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 151743   | 59.969    | ug/l # | 100    |
| 79) 2-Chlorotoluene            | 13.05 | 91   | 35526    | 2.421     | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 151743   | 125.424   | ug/l # | 10     |
| 82) 4-Chlorotoluene            | 13.05 | 91   | 35526    | 2.275     | ug/l # | 39     |

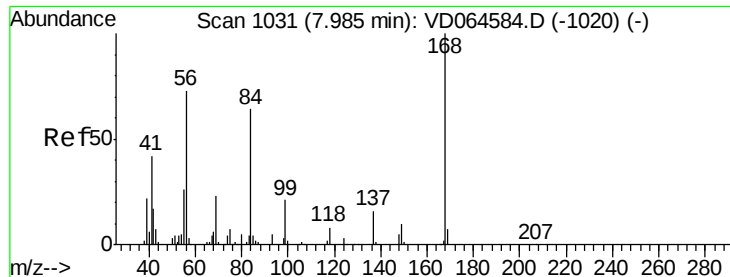
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD122719\  
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Sample : K6431-06RE  
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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-3-(0-2)

Quant Time: Dec 30 00:58:55 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 24 13:19:06 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064645.D

Acq: 27 Dec 2019 15:23

Instrument :

MSVOA\_D

ClientSampleId :

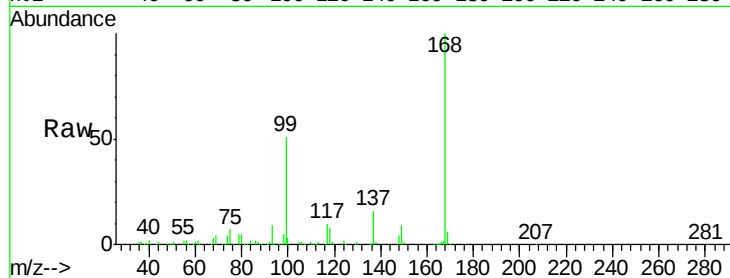
SB-3-(0-2)

Tgt Ion:168 Resp: 502719

Ion Ratio Lower Upper

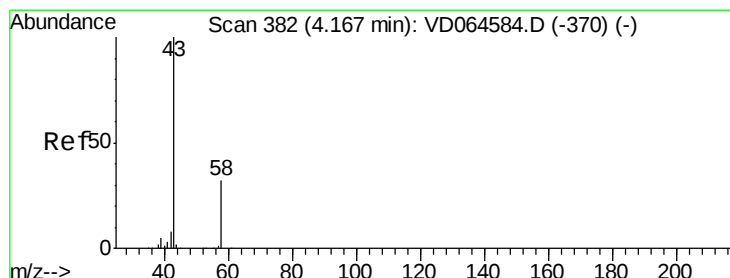
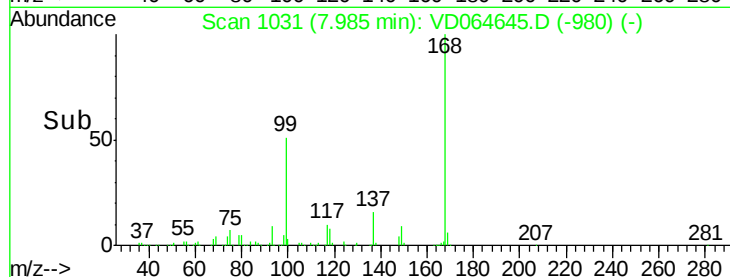
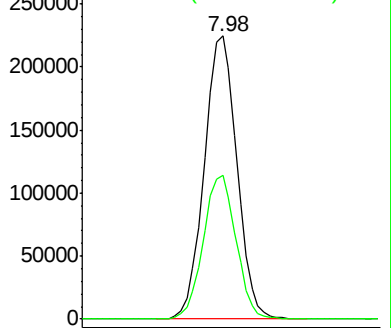
168 100

99 51.0 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 12.356 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064645.D

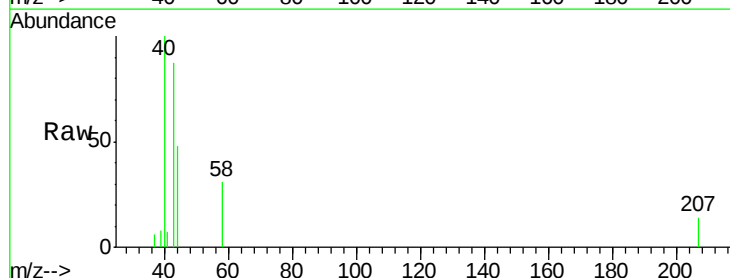
Acq: 27 Dec 2019 15:23

Tgt Ion: 43 Resp: 8652

Ion Ratio Lower Upper

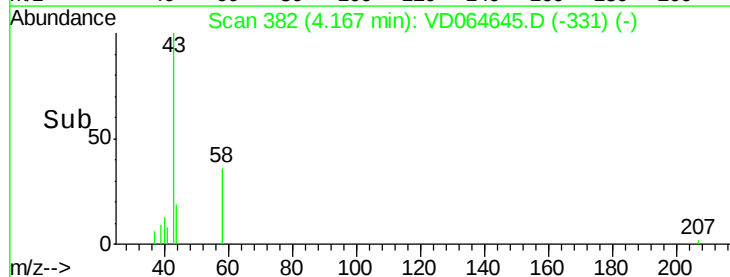
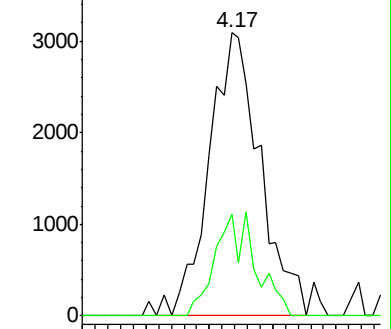
43 100

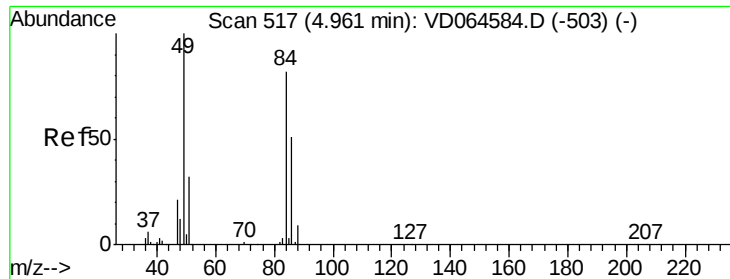
58 36.1 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

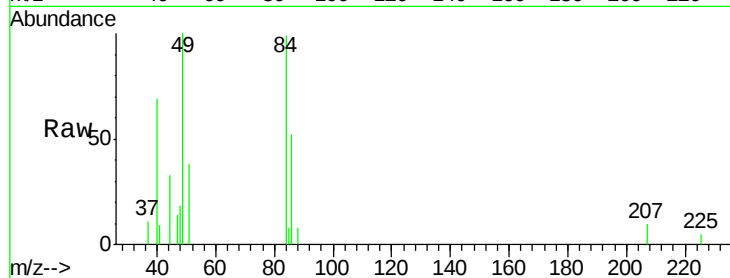




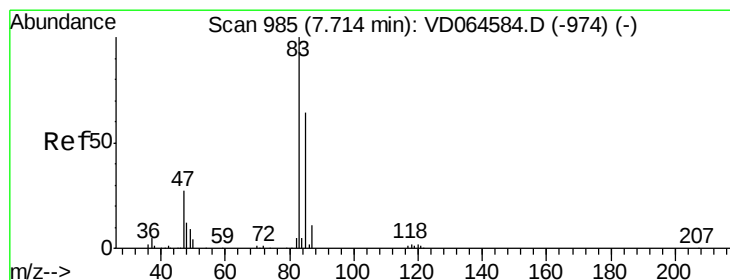
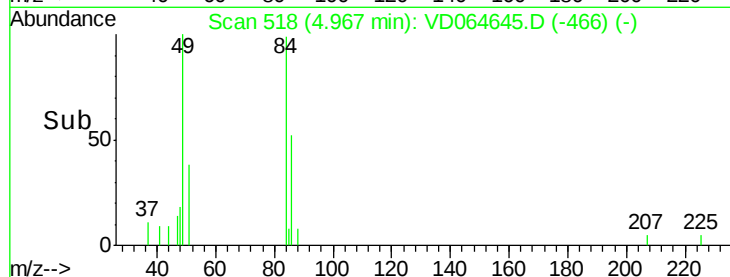
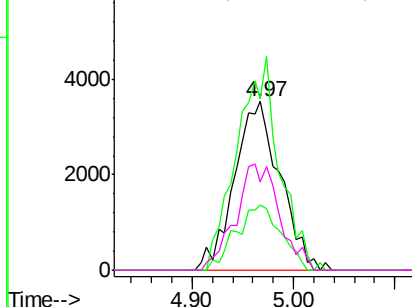
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.97 min Scan# 518  
Delta R.T. 0.01 min  
Lab File: VD064645.D  
Acq: 27 Dec 2019 15:23

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-3-(0-2)

Tgt Ion: 84 Resp: 11044  
Ion Ratio Lower Upper  
84 100  
49 101.4 97.2 145.8  
51 38.5 31.4 47.0  
86 52.4 49.3 73.9

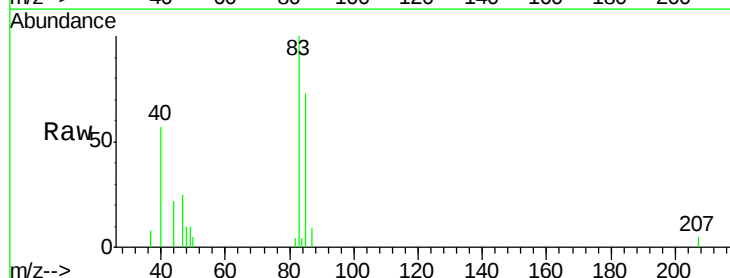


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

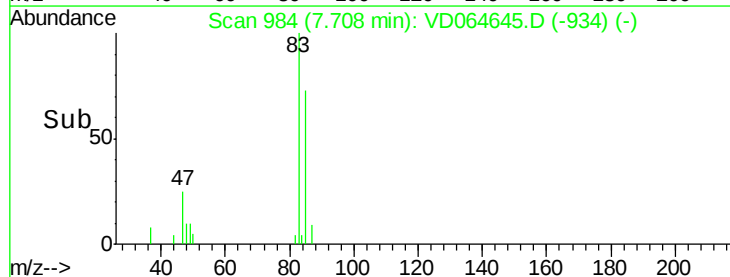
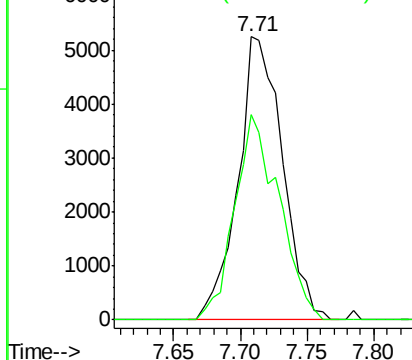


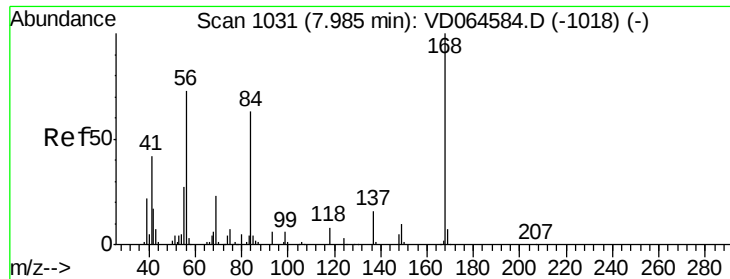
#30  
Chloroform  
Concen: 1.399 ug/l  
RT: 7.71 min Scan# 984  
Delta R.T. -0.01 min  
Lab File: VD064645.D  
Acq: 27 Dec 2019 15:23

Tgt Ion: 83 Resp: 12117  
Ion Ratio Lower Upper  
83 100  
85 72.7 51.1 76.7



Abundance Ion 82.90 (82.60 to 83.60): VDC  
Ion 84.90 (84.60 to 85.60): VDC

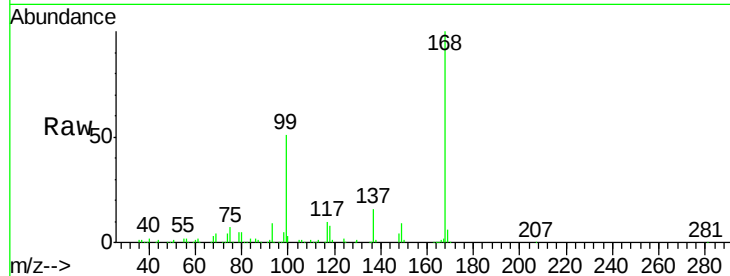




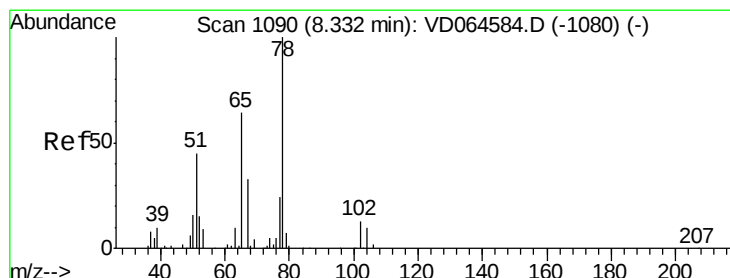
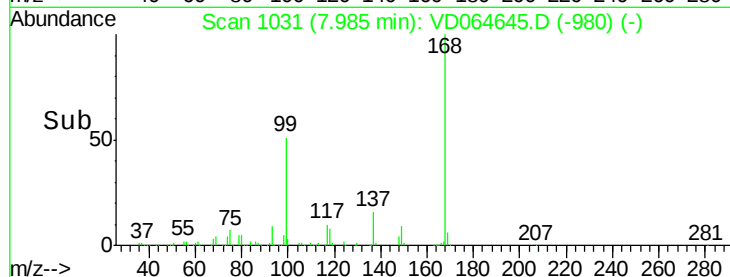
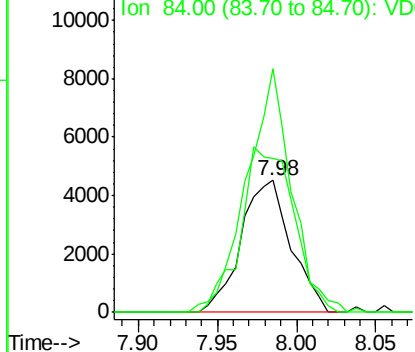
#31  
Cyclohexane  
Concen: 1.201 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD064645.D  
Acq: 27 Dec 2019 15:23

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-3-(0-2)

Tgt Ion: 56 Resp: 9930  
Ion Ratio Lower Upper  
56 100  
69 184.7 24.7 37.1#  
84 117.3 69.4 104.2#

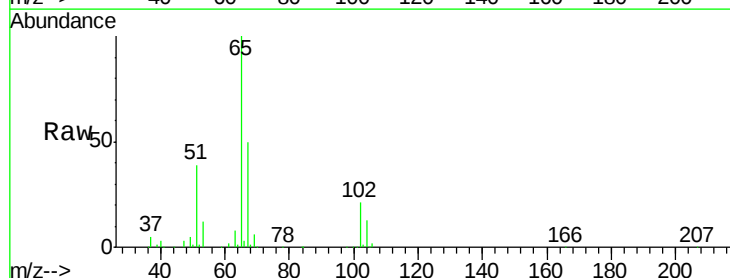


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

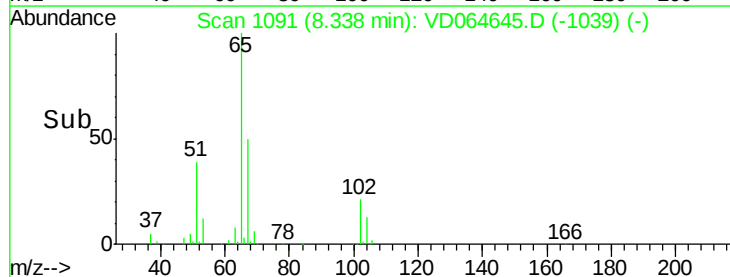
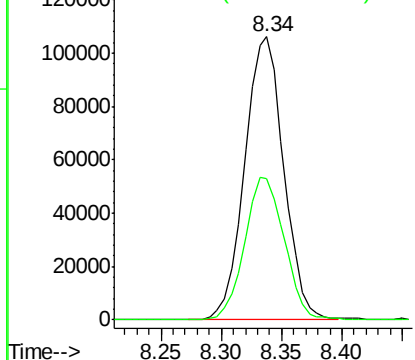


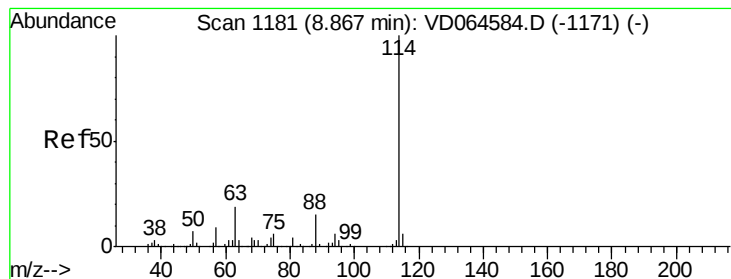
#33  
1,2-Dichloroethane-d4  
Concen: 53.692 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. 0.01 min  
Lab File: VD064645.D  
Acq: 27 Dec 2019 15:23

Tgt Ion: 65 Resp: 238012  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 106.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064645.D

Acq: 27 Dec 2019 15:23

Instrument :

MSVOA\_D

ClientSampleId :

SB-3-(0-2)

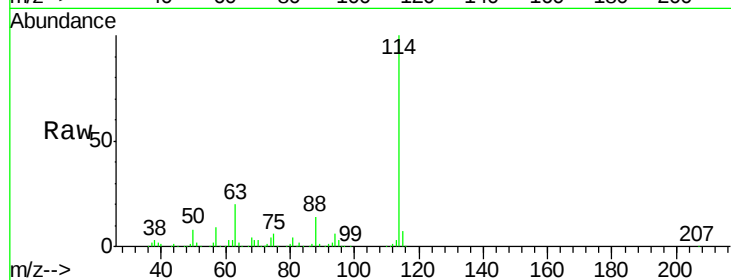
Tgt Ion:114 Resp: 754811

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.0

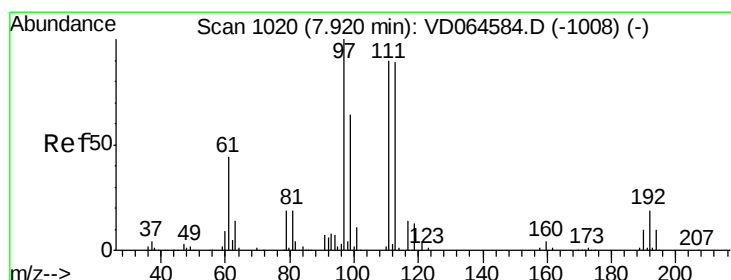
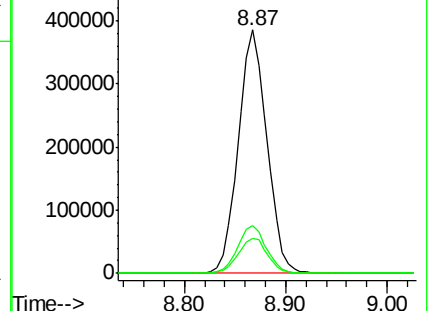
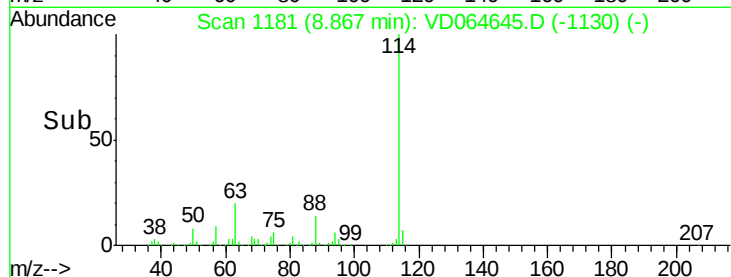
88 14.2 0.0 29.2



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: 51.820 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064645.D

Acq: 27 Dec 2019 15:23

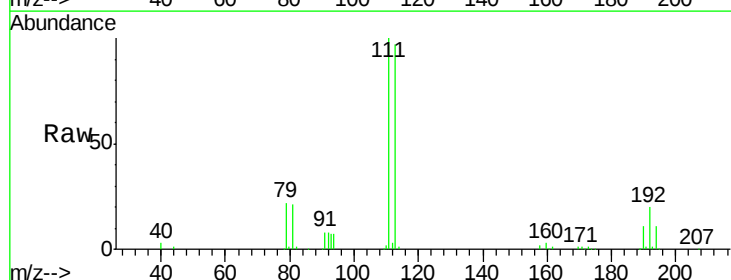
Tgt Ion:113 Resp: 239971

Ion Ratio Lower Upper

113 100

111 102.4 80.6 121.0

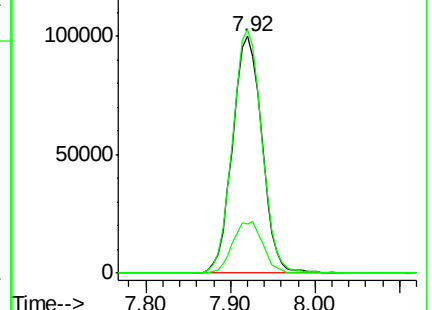
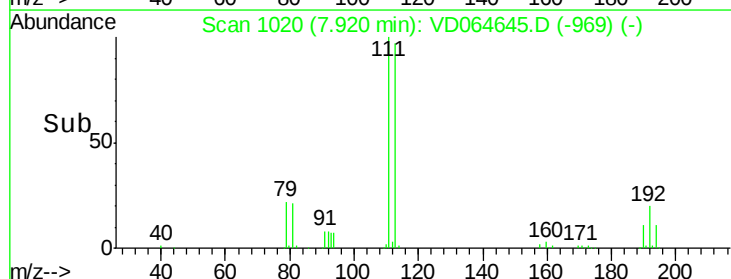
192 22.4 17.9 26.9

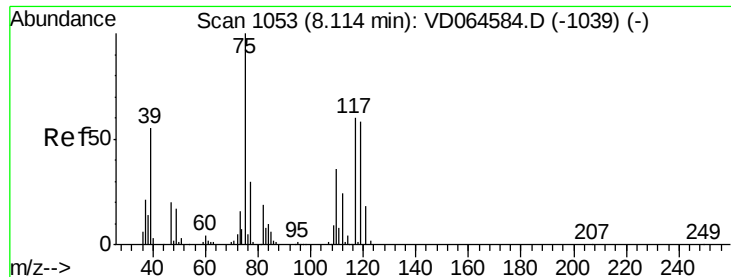


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

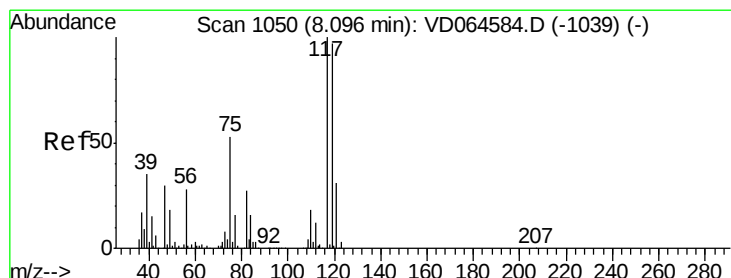
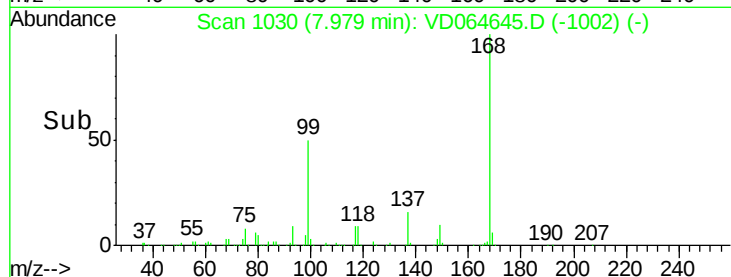
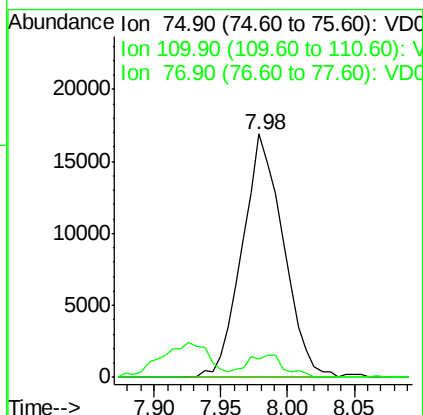
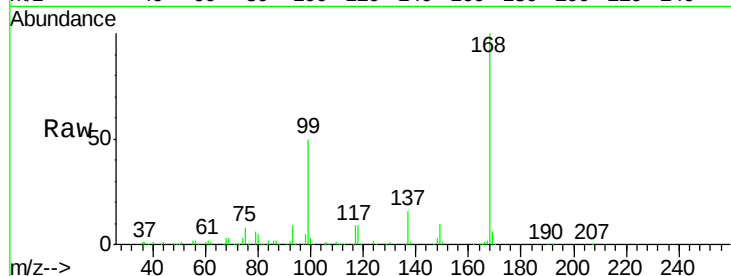




#36  
 1,1-Dichloropropene  
 Concen: 4.959 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD064645.D  
 Acq: 27 Dec 2019 15:23

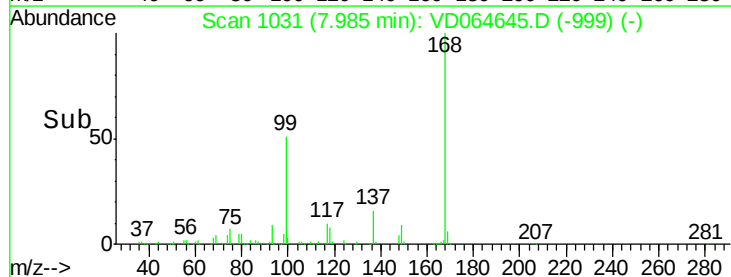
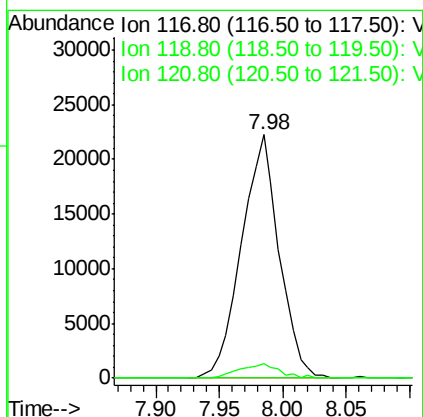
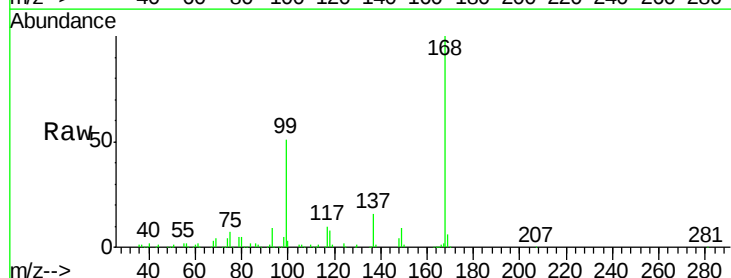
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-3-(0-2)

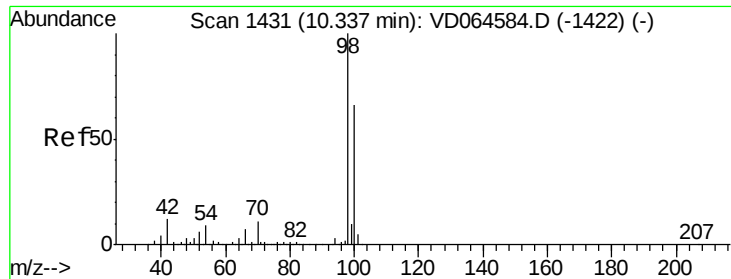
Tgt Ion: 75 Resp: 36025  
 Ion Ratio Lower Upper  
 75 100  
 110 8.7 18.1 54.1#  
 77 0.0 24.2 36.4#



#38  
 Carbon Tetrachloride  
 Concen: 5.930 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.11 min  
 Lab File: VD064645.D  
 Acq: 27 Dec 2019 15:23

Tgt Ion: 117 Resp: 45938  
 Ion Ratio Lower Upper  
 117 100  
 119 5.7 77.3 115.9#  
 121 0.0 25.0 37.6#





#50

Toluene-d8

Concen: 50.226 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064645.D

Acq: 27 Dec 2019 15:23

Instrument :

MSVOA\_D

ClientSampleId :

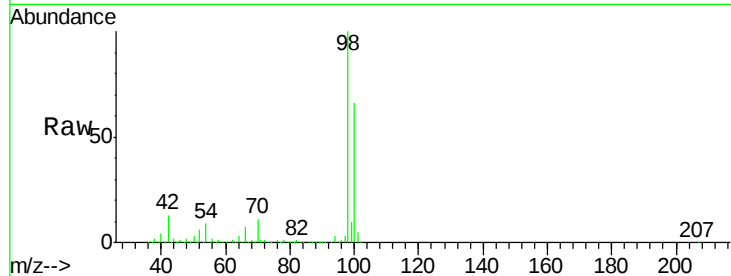
SB-3-(0-2)

Tgt Ion: 98 Resp: 890792

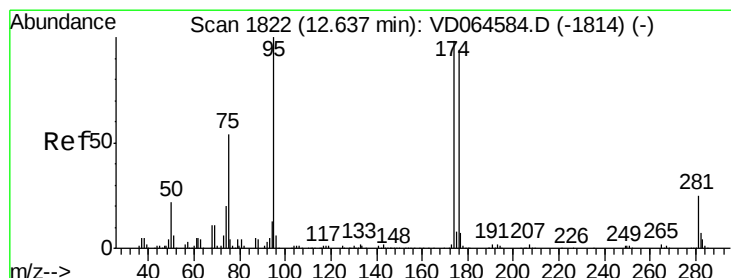
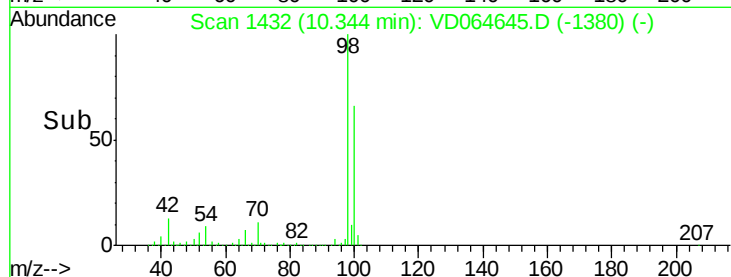
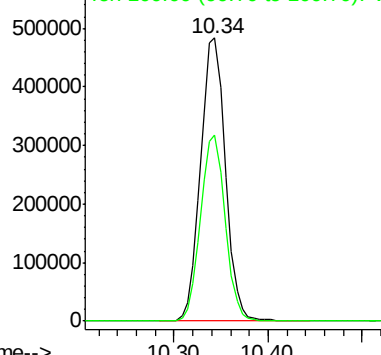
Ion Ratio Lower Upper

98 100

100 65.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VD064584.D (-1422) (-)



#62

4-Bromofluorobenzene

Concen: 51.150 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064645.D

Acq: 27 Dec 2019 15:23

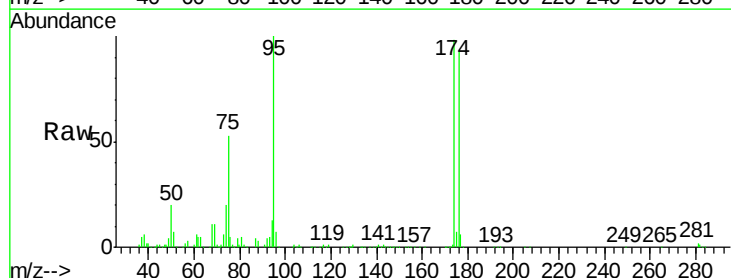
Tgt Ion: 95 Resp: 286862

Ion Ratio Lower Upper

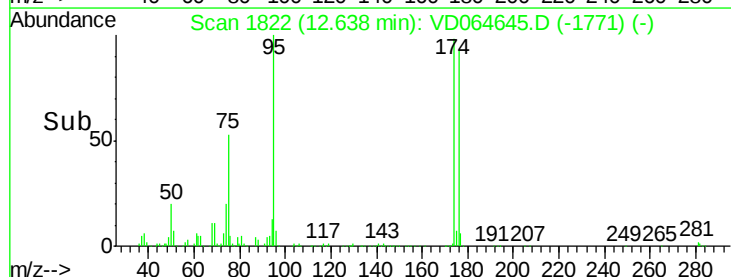
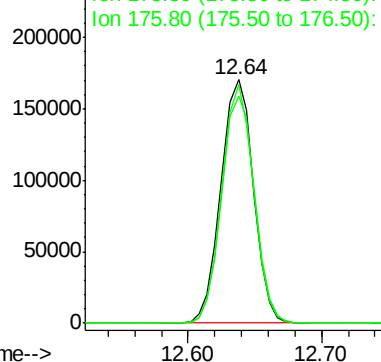
95 100

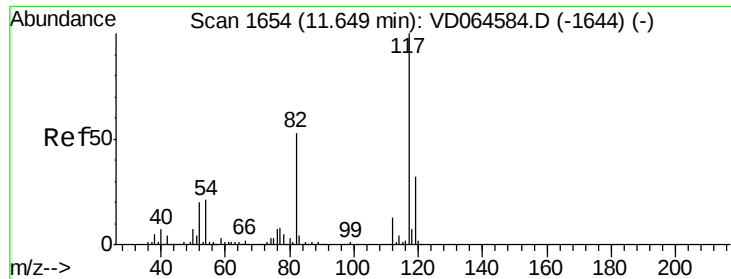
174 96.1 0.0 193.2

176 93.6 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): VD064584.D (-1814) (-)

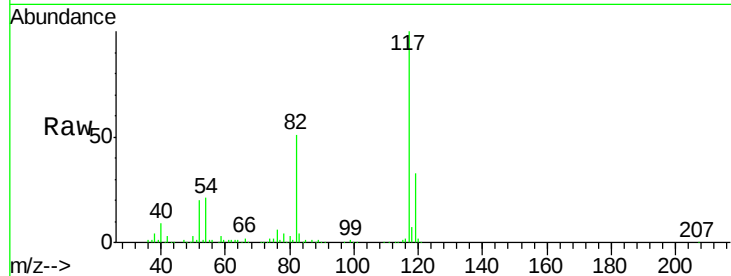




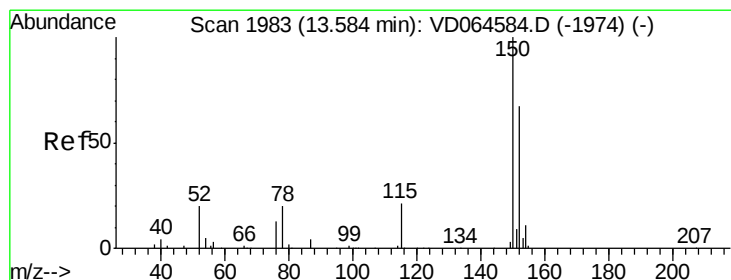
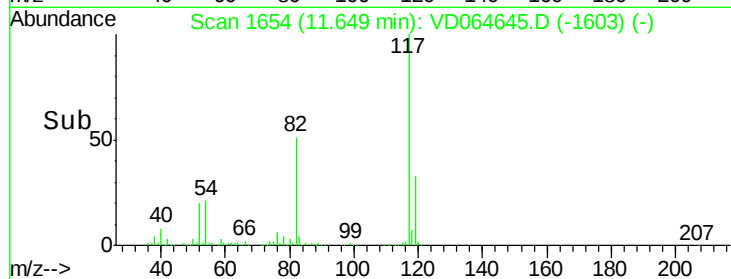
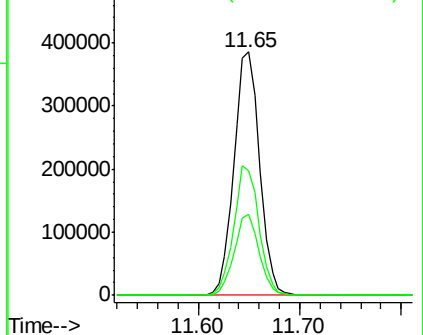
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064645.D  
Acq: 27 Dec 2019 15:23

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-3-(0-2)

Tgt Ion:117 Resp: 678576  
Ion Ratio Lower Upper  
117 100  
82 51.2 42.2 63.4  
119 33.4 26.0 39.0

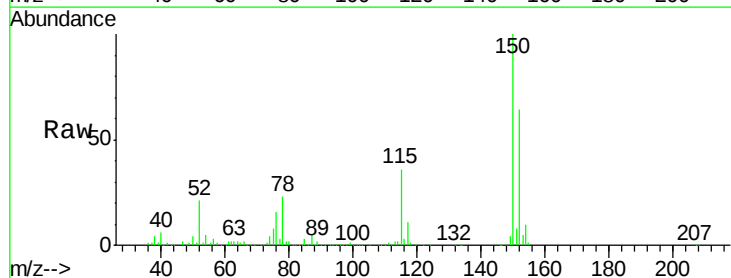


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

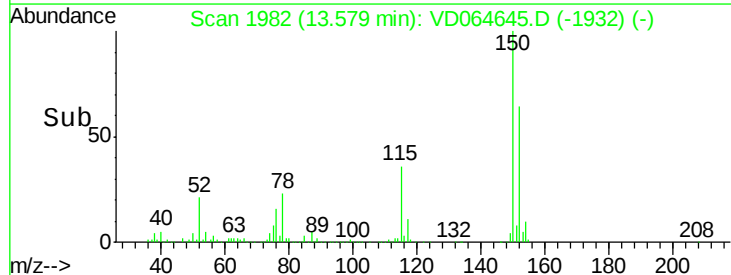
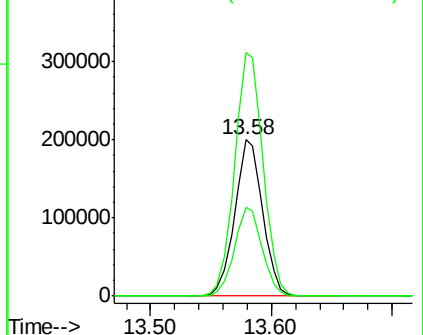


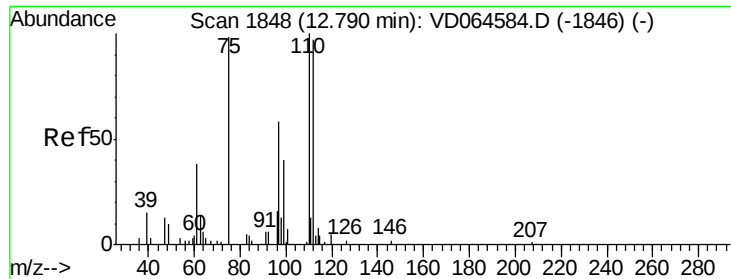
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.01 min  
Lab File: VD064645.D  
Acq: 27 Dec 2019 15:23

Tgt Ion:152 Resp: 320433  
Ion Ratio Lower Upper  
152 100  
115 56.5 27.8 83.4  
150 159.2 0.0 351.4



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: 59.969 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064645.D

Acq: 27 Dec 2019 15:23

Instrument :

MSVOA\_D

ClientSampleId :

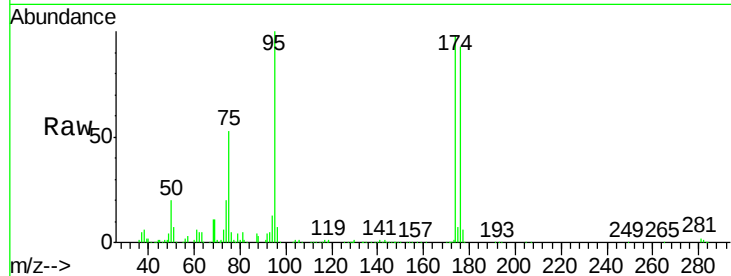
SB-3-(0-2)

Tgt Ion: 75 Resp: 151743

Ion Ratio Lower Upper

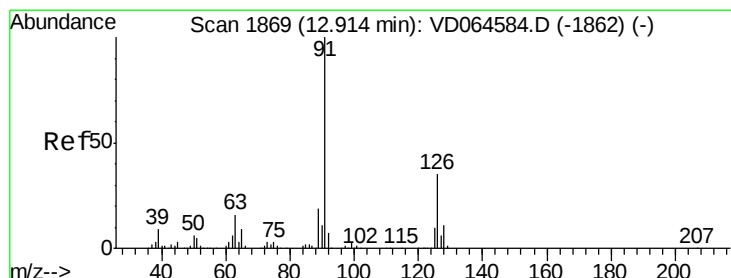
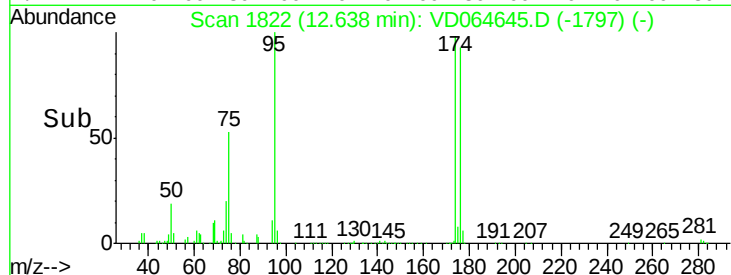
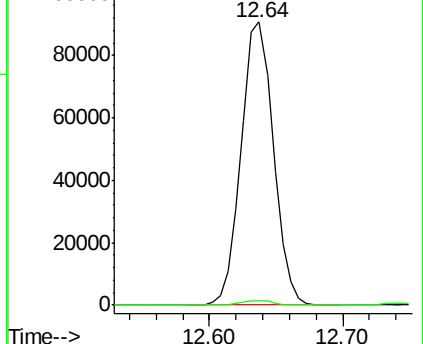
75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#79

2-Chlorotoluene

Concen: 2.421 ug/l

RT: 13.05 min Scan# 1892

Delta R.T. 0.14 min

Lab File: VD064645.D

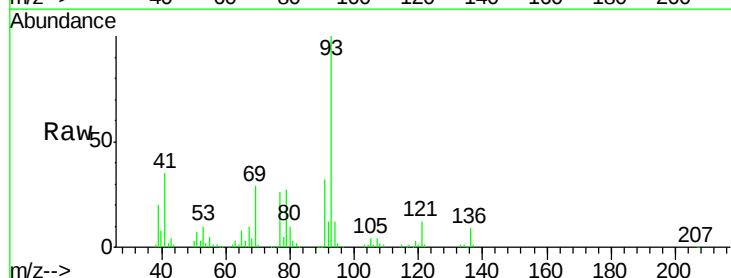
Acq: 27 Dec 2019 15:23

Tgt Ion: 91 Resp: 35526

Ion Ratio Lower Upper

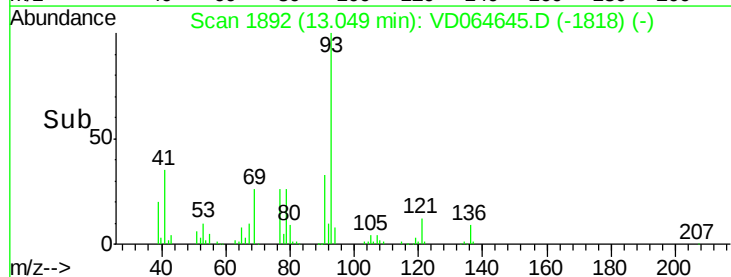
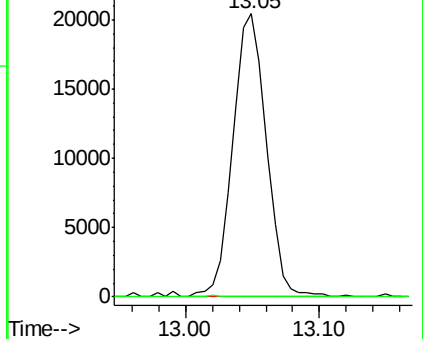
91 100

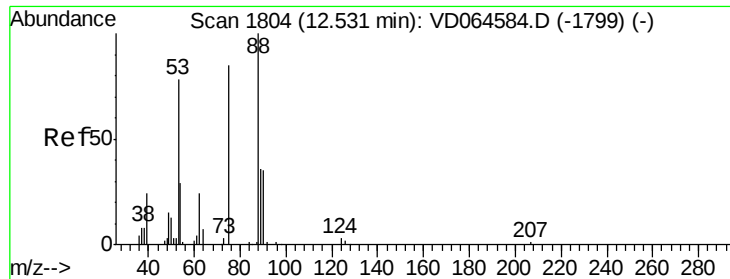
126 0.0 17.8 53.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): VDC

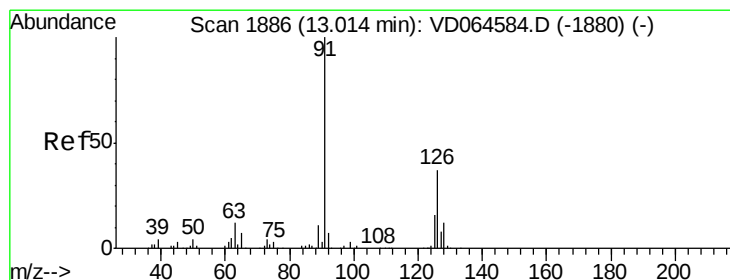
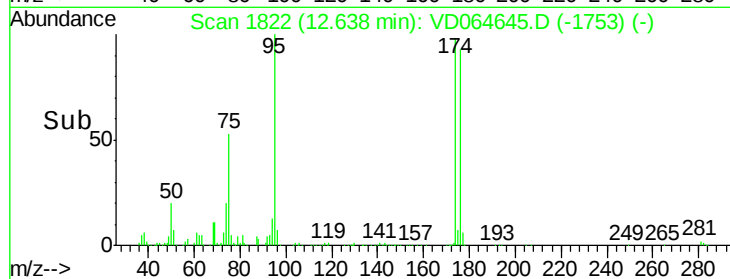
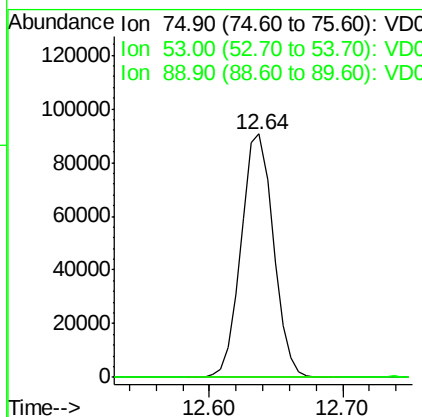
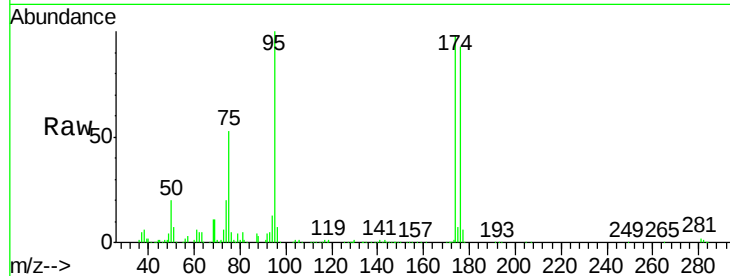




#81  
trans-1,4-Dichloro-2-butene  
Concen: 125.424 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.11 min  
Lab File: VD064645.D  
Acq: 27 Dec 2019 15:23

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-3-(0-2)

Tgt Ion: 75 Resp: 151743  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.8 118.2#  
89 0.0 38.3 57.5#



#82  
4-Chlorotoluene  
Concen: 2.275 ug/l  
RT: 13.05 min Scan# 1892  
Delta R.T. 0.04 min  
Lab File: VD064645.D  
Acq: 27 Dec 2019 15:23

Tgt Ion: 91 Resp: 35526  
Ion Ratio Lower Upper  
91 100  
126 0.0 17.8 53.5#

