

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD020320\  
 Data File : VD065045.D  
 Acq On : 03 Feb 2020 10:47  
 Operator : VA/SY  
 Sample : VD0203SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0203SBL01

Quant Time: Feb 03 11:22:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 579855   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 895740   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 883091   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 421145   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 269667   | 48.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.96%  |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 273684   | 48.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.24%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 1084803  | 49.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.86%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 376985   | 56.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.40% |          |

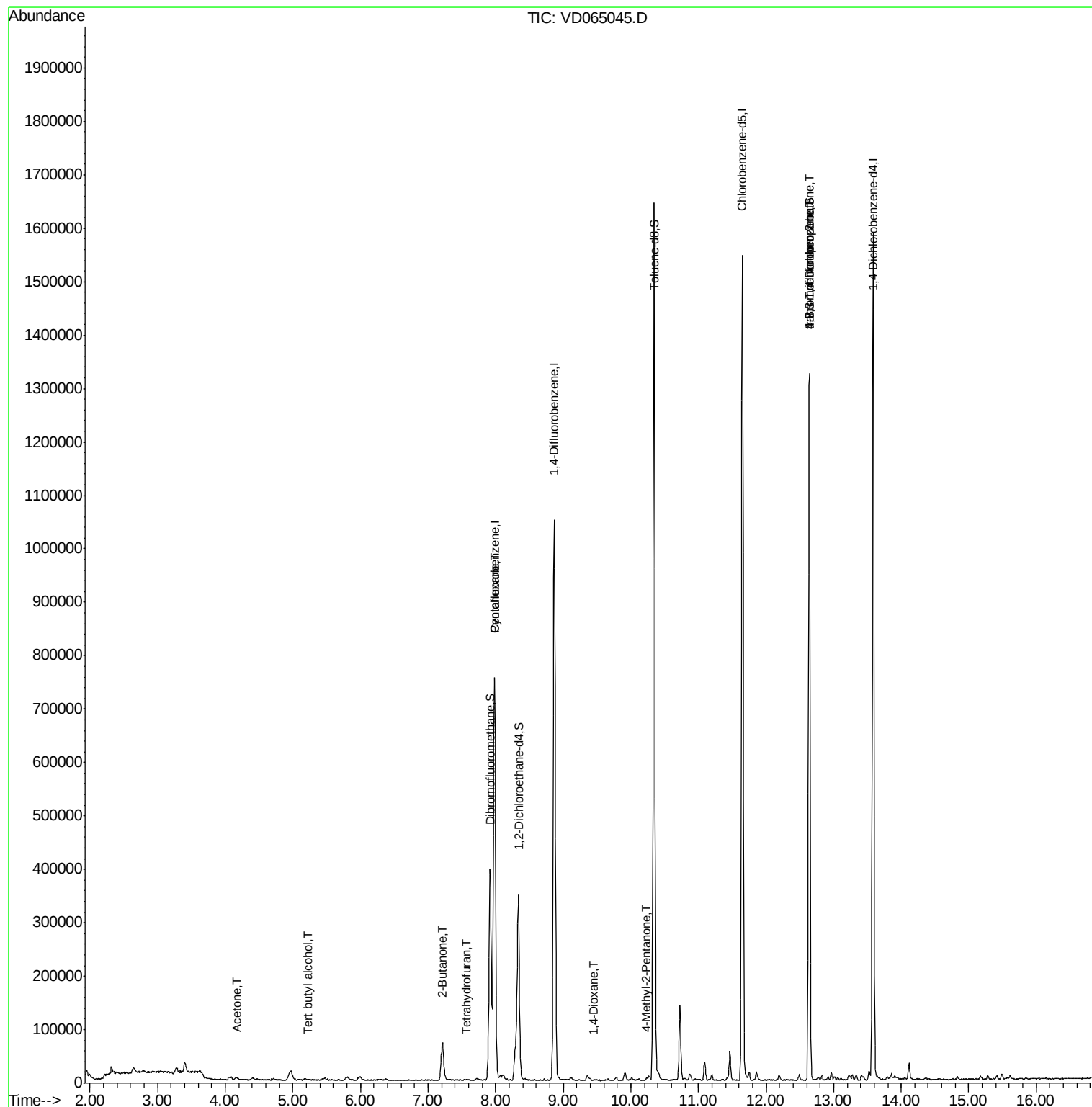
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.21  | 59   | 552      | 1.80      | ug/l   | 96     |
| 16) Acetone                    | 4.17  | 43   | 8627     | 19.06     | ug/l # | 73     |
| 20) Methylene Chloride         | 4.97  | 84   | 12173    | Below Cal |        | 96     |
| 25) 2-Butanone                 | 7.21  | 43   | 5513     | 3.67      | ug/l   | 99     |
| 29) Tetrahydrofuran            | 7.57  | 42   | 967      | 1.04      | ug/l # | 52     |
| 31) Cyclohexane                | 7.99  | 56   | 15892    | 1.64      | ug/l # | 42     |
| 49) 1,4-Dioxane                | 9.46  | 88   | 73       | 2.00      | ug/l # | 27     |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 3419     | 1.01      | ug/l # | 85     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 195605   | 55.96     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 195605   | 119.48    | ug/l # | 9      |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 23 13:45:59 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065045.D

Acq: 03 Feb 2020 10:47

Instrument :

MSVOA\_D

ClientSampleId :

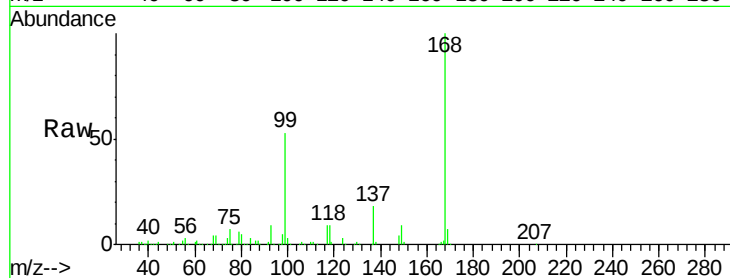
VD0203SBL01

Tgt Ion:168 Resp: 579855

Ion Ratio Lower Upper

168 100

99 53.2 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

250000

200000

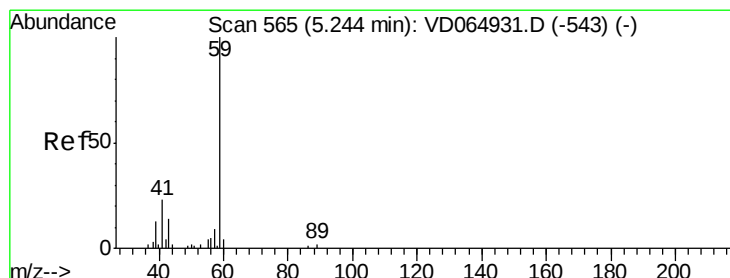
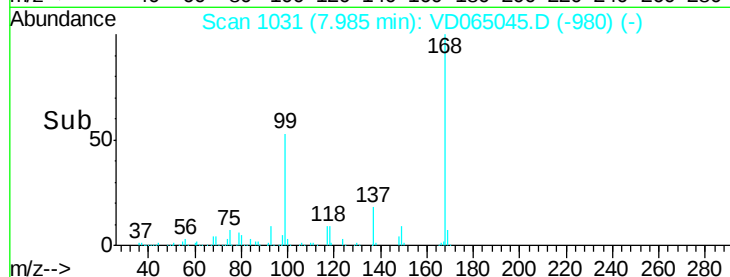
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.80 ug/l

RT: 5.21 min Scan# 560

Delta R.T. -0.03 min

Lab File: VD065045.D

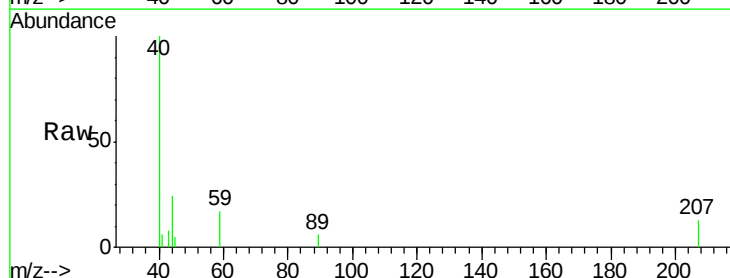
Acq: 03 Feb 2020 10:47

Tgt Ion: 59 Resp: 552

Ion Ratio Lower Upper

59 100

57 11.1 7.7 11.5



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.21

800

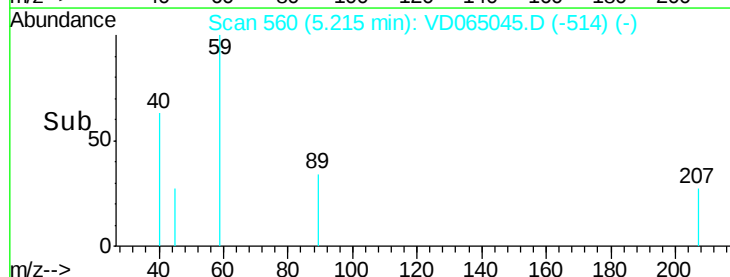
600

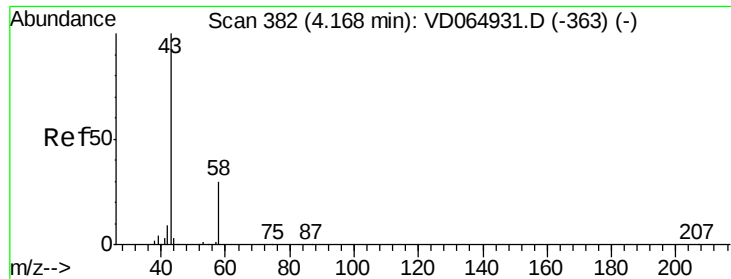
400

200

0

Time-->





#16

Acetone

Concen: 19.06 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD065045.D

Acq: 03 Feb 2020 10:47

Instrument :

MSVOA\_D

ClientSampleId :

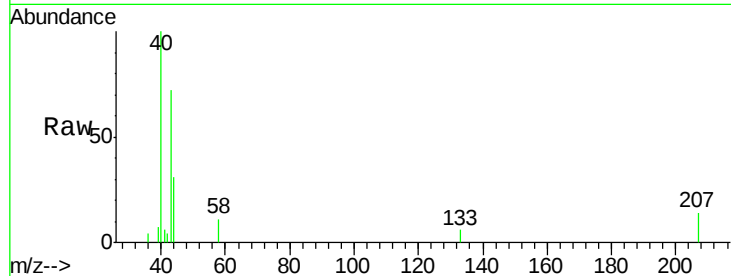
VD0203SBL01

Tgt Ion: 43 Resp: 8627

Ion Ratio Lower Upper

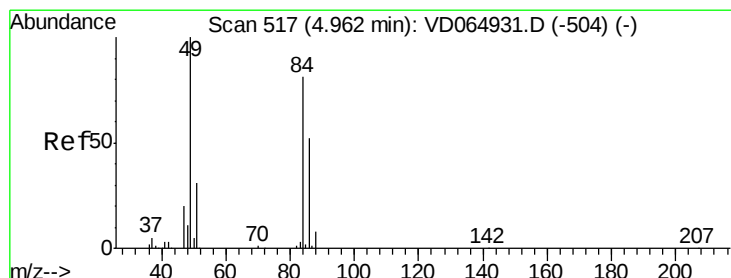
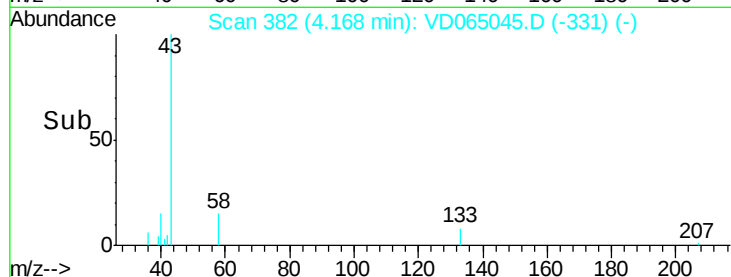
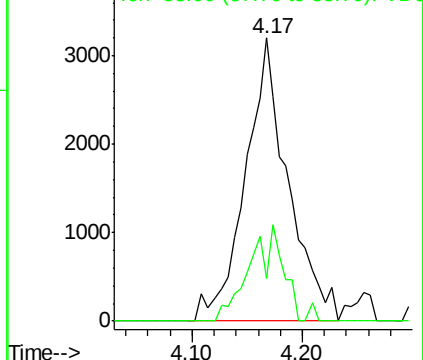
43 100

58 15.2 23.8 35.8#



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: VD065045.D

Acq: 03 Feb 2020 10:47

Tgt Ion: 84 Resp: 12173

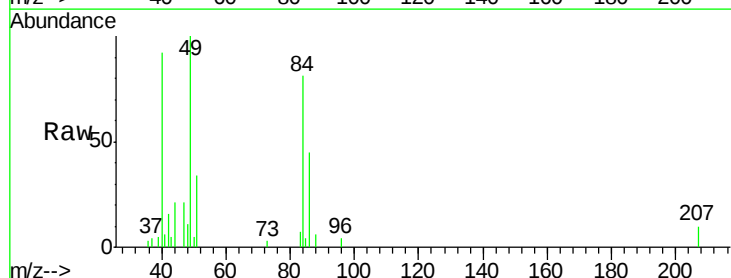
Ion Ratio Lower Upper

84 100

49 123.5 98.4 147.6

51 42.0 30.8 46.2

86 55.2 51.0 76.6

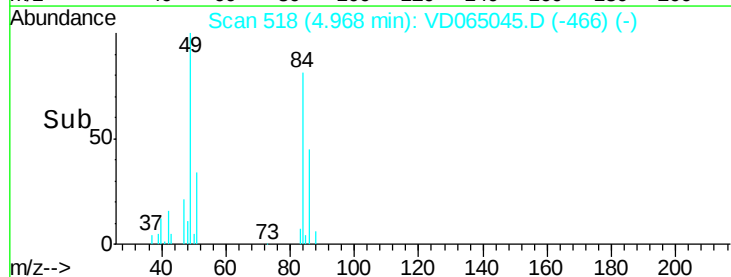
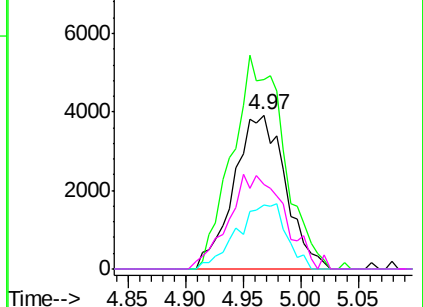


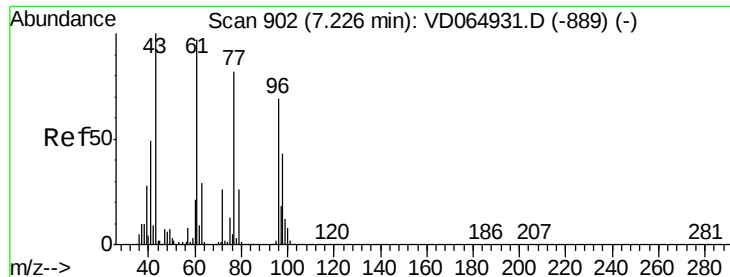
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

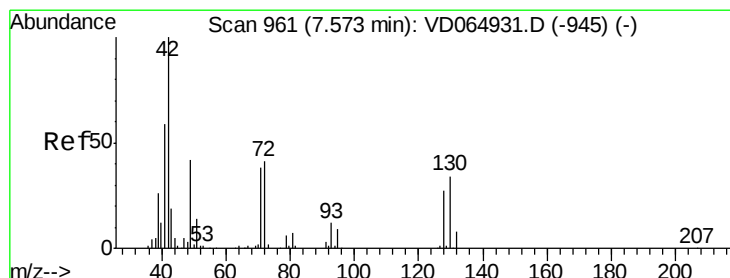
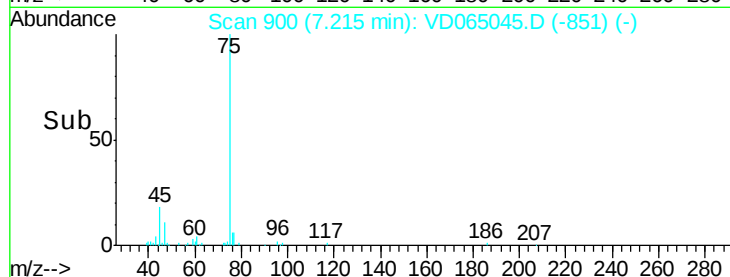
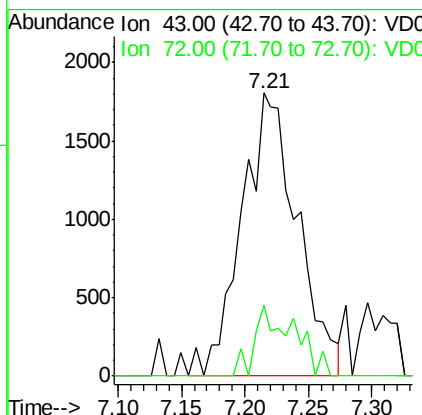
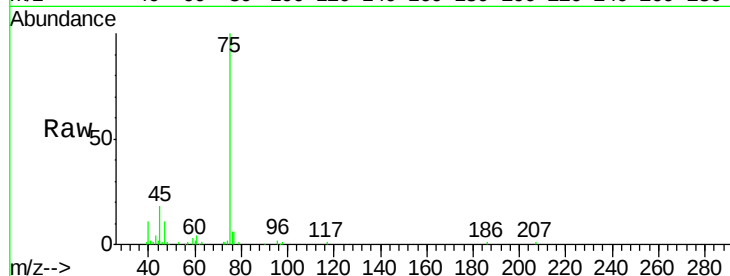




#25  
2-Butanone  
Concen: 3.67 ug/l  
RT: 7.21 min Scan# 900  
Delta R.T. -0.01 min  
Lab File: VD065045.D  
Acq: 03 Feb 2020 10:47

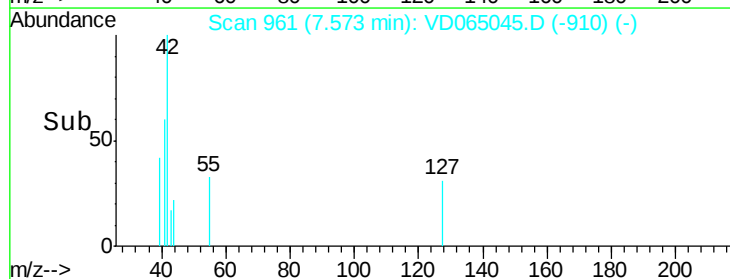
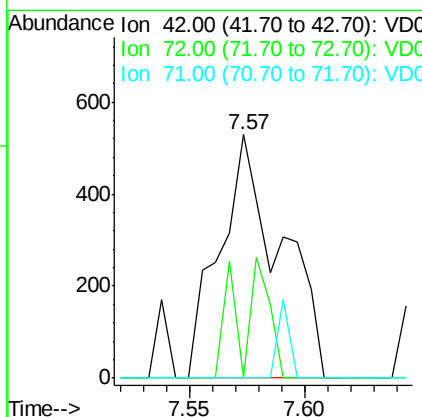
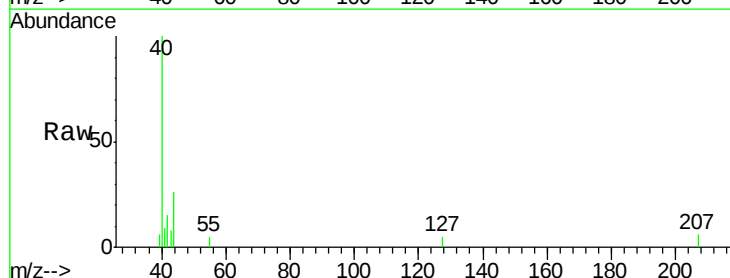
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0203SBL01

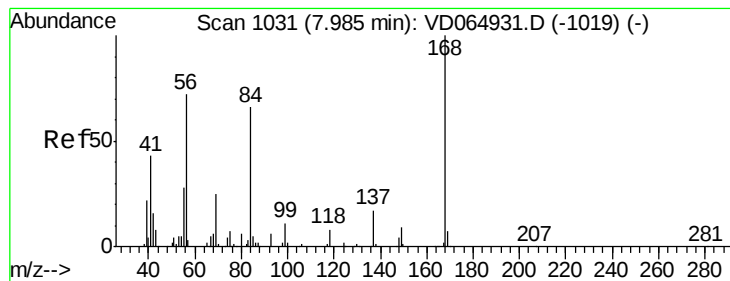
Tgt Ion: 43 Resp: 5513  
Ion Ratio Lower Upper  
43 100  
72 25.1 20.6 31.0



#29  
Tetrahydrofuran  
Concen: 1.04 ug/l  
RT: 7.57 min Scan# 961  
Delta R.T. 0.00 min  
Lab File: VD065045.D  
Acq: 03 Feb 2020 10:47

Tgt Ion: 42 Resp: 967  
Ion Ratio Lower Upper  
42 100  
72 15.4 34.0 51.0#  
71 6.2 31.5 47.3#





#31

Cyclohexane

Concen: 1.64 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065045.D

Acq: 03 Feb 2020 10:47

Instrument :

MSVOA\_D

ClientSampleId :

VD0203SBL01

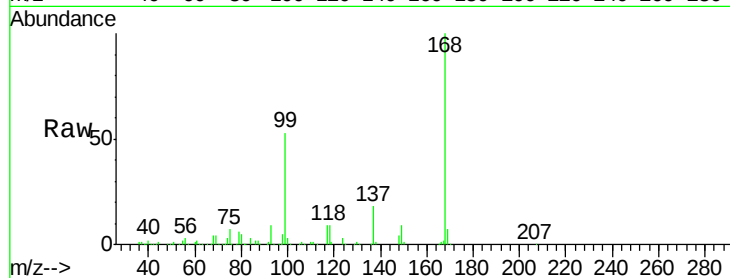
Tgt Ion: 56 Resp: 15892

Ion Ratio Lower Upper

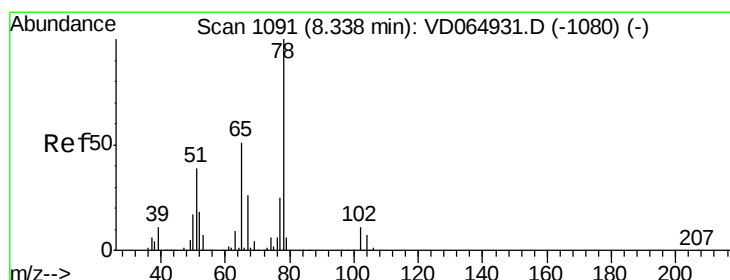
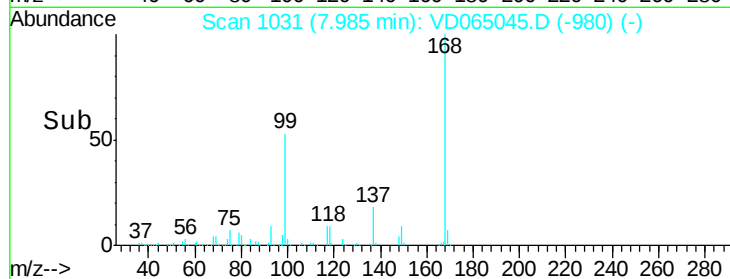
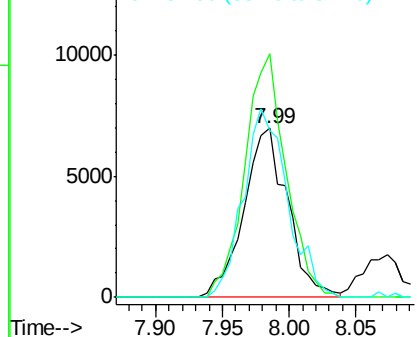
56 100

69 144.3 27.9 41.9#

84 99.1 72.8 109.2



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: 48.48 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065045.D

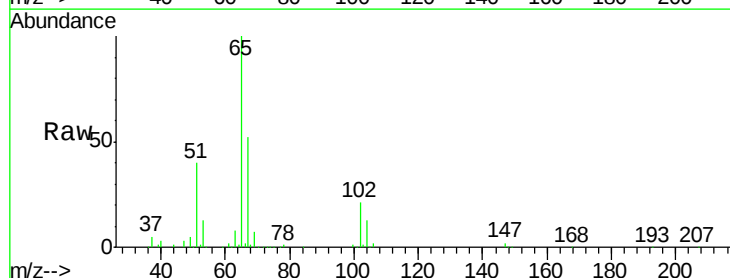
Acq: 03 Feb 2020 10:47

Tgt Ion: 65 Resp: 269667

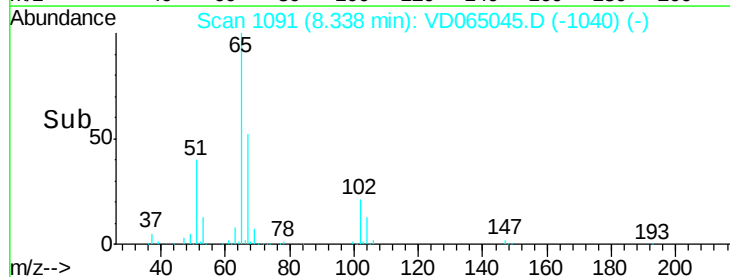
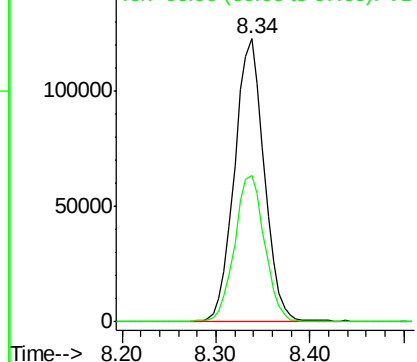
Ion Ratio Lower Upper

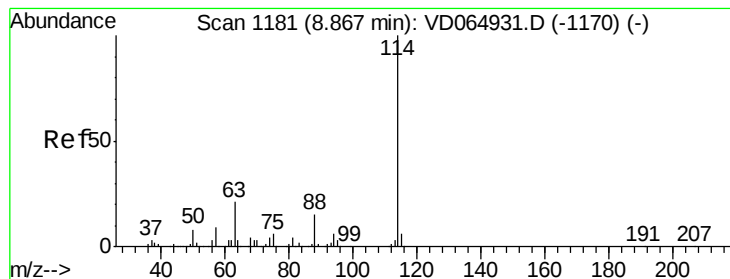
65 100

67 52.5 0.0 103.6



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065045.D

Acq: 03 Feb 2020 10:47

Instrument :

MSVOA\_D

ClientSampleId :

VD0203SBL01

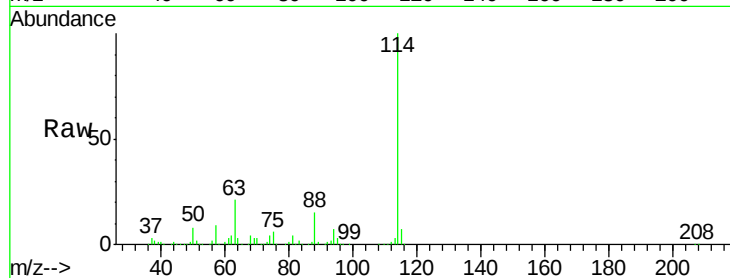
Tgt Ion:114 Resp: 895740

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.0

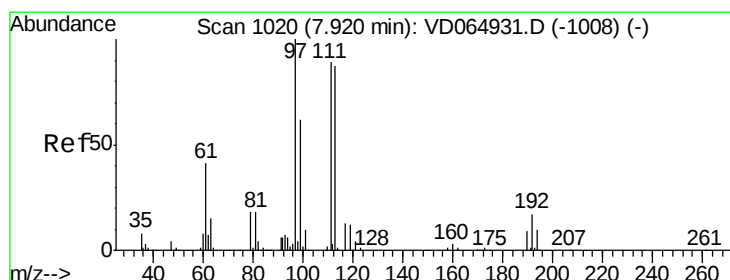
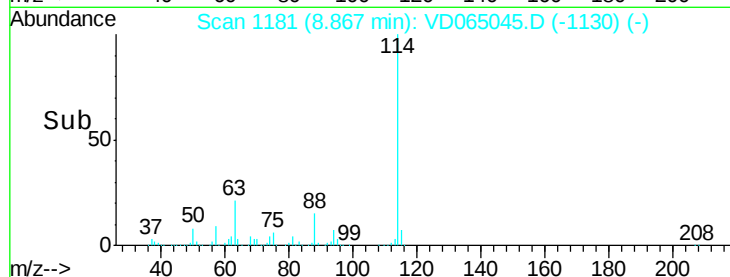
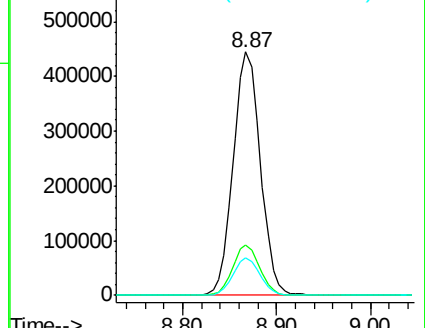
88 15.2 0.0 29.4



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: 48.62 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065045.D

Acq: 03 Feb 2020 10:47

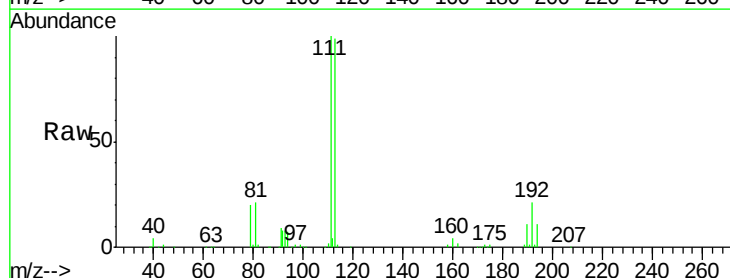
Tgt Ion:113 Resp: 273684

Ion Ratio Lower Upper

113 100

111 104.6 82.4 123.6

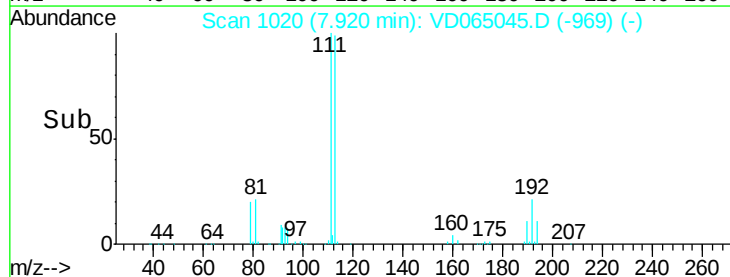
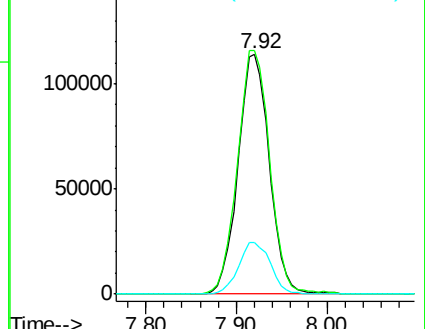
192 22.0 16.9 25.3

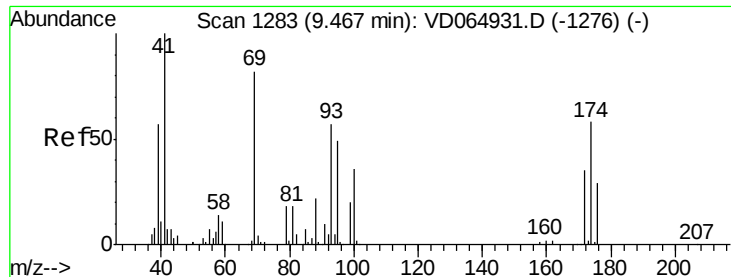


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

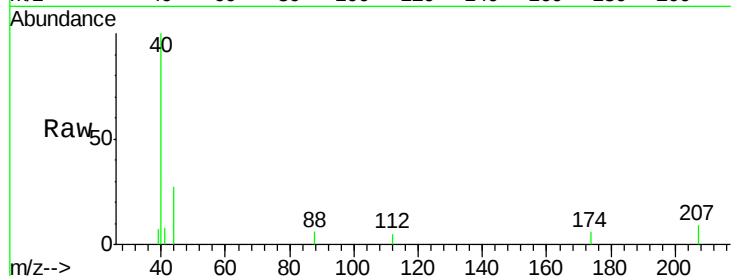




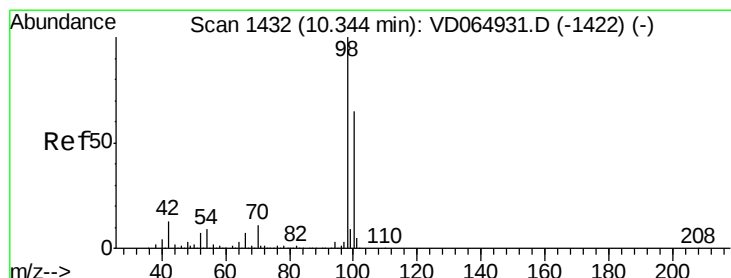
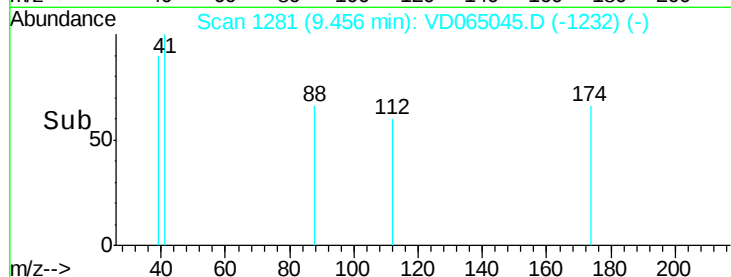
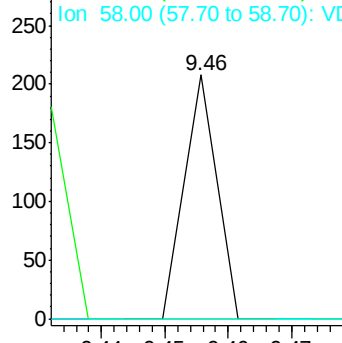
#49  
1,4-Dioxane  
Concen: 2.00 ug/l  
RT: 9.46 min Scan# 1281  
Delta R.T. -0.01 min  
Lab File: VD065045.D  
Acq: 03 Feb 2020 10:47

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0203SBL01

Tgt Ion: 88 Resp: 73  
Ion Ratio Lower Upper  
88 100  
43 0.0 26.2 39.4#  
58 0.0 50.3 75.5#

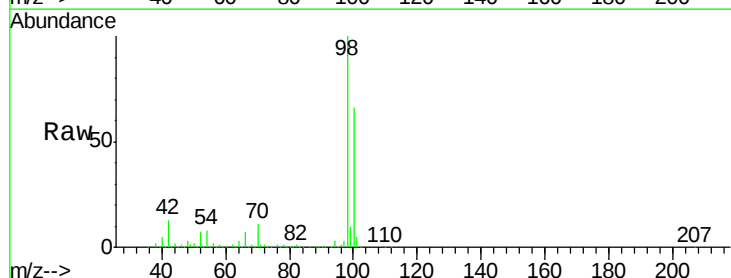


Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC

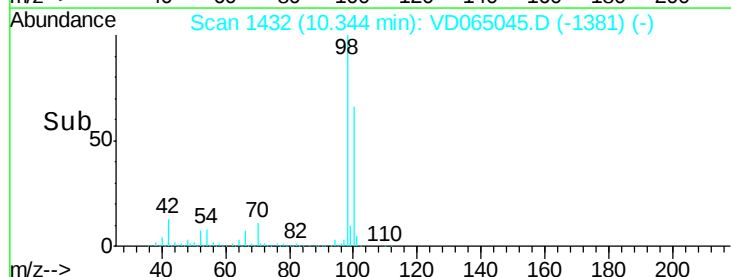
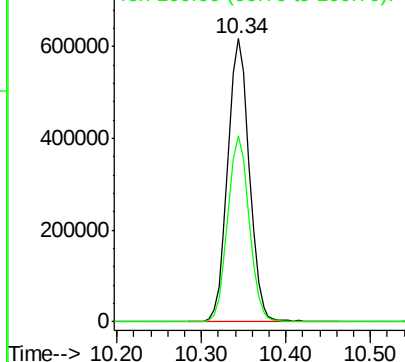


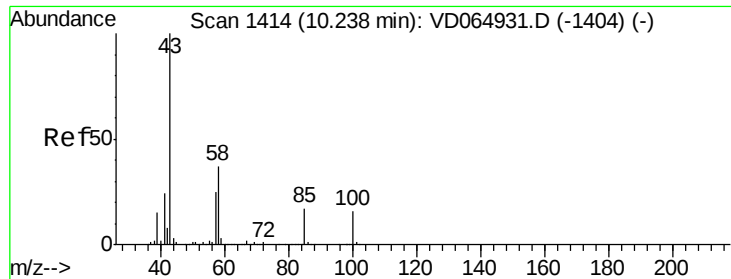
#50  
Toluene-d8  
Concen: 49.93 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD065045.D  
Acq: 03 Feb 2020 10:47

Tgt Ion: 98 Resp: 1084803  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.01 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD065045.D

Acq: 03 Feb 2020 10:47

Instrument :

MSVOA\_D

ClientSampleId :

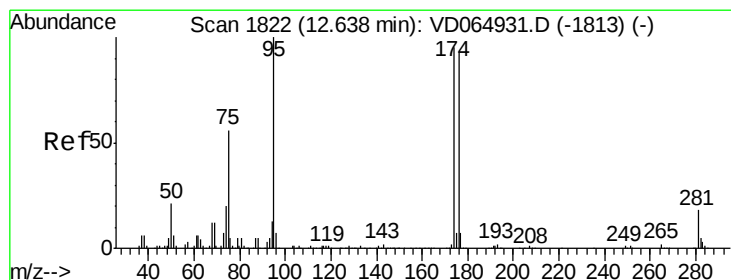
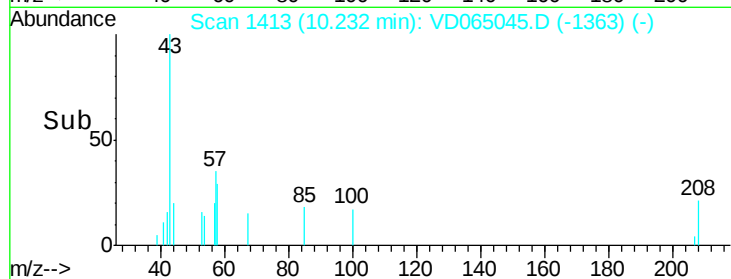
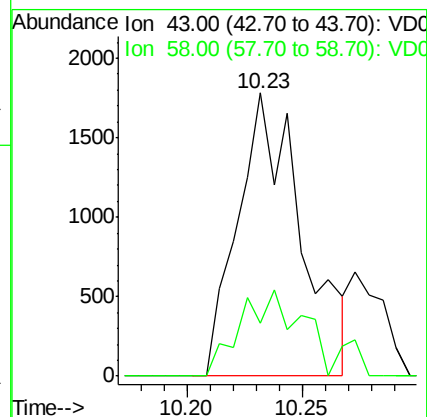
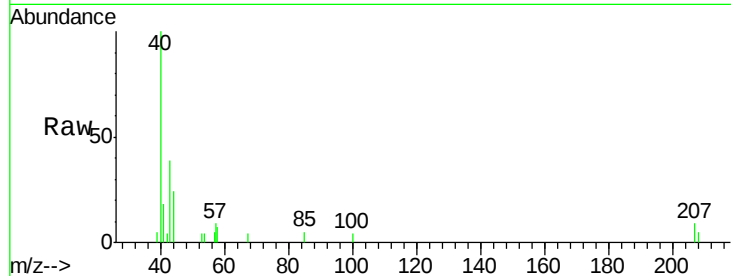
VD0203SBL01

Tgt Ion: 43 Resp: 3419

Ion Ratio Lower Upper

43 100

58 28.8 30.4 45.6#



#62

4-Bromofluorobenzene

Concen: 56.70 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD065045.D

Acq: 03 Feb 2020 10:47

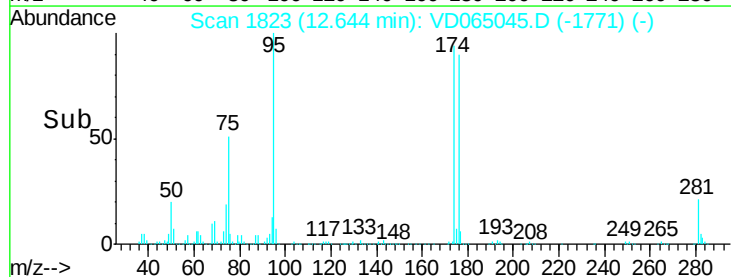
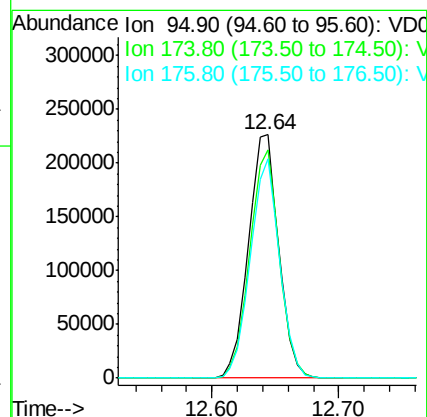
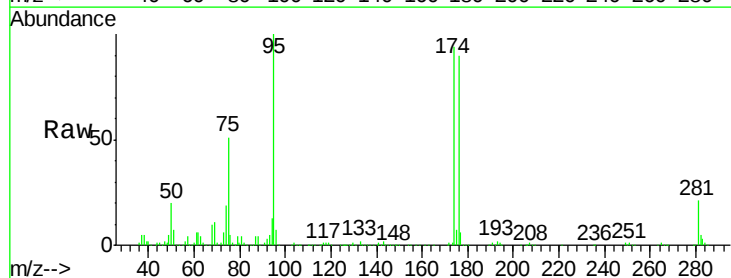
Tgt Ion: 95 Resp: 376985

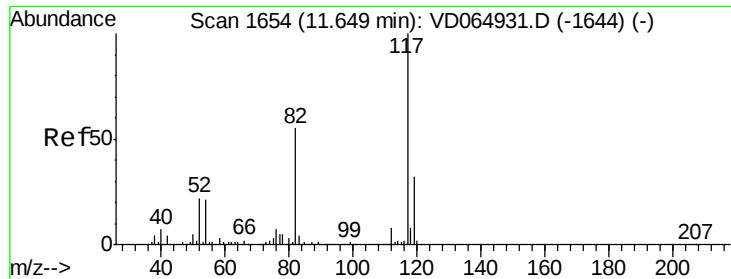
Ion Ratio Lower Upper

95 100

174 91.4 0.0 186.8

176 87.3 0.0 183.4

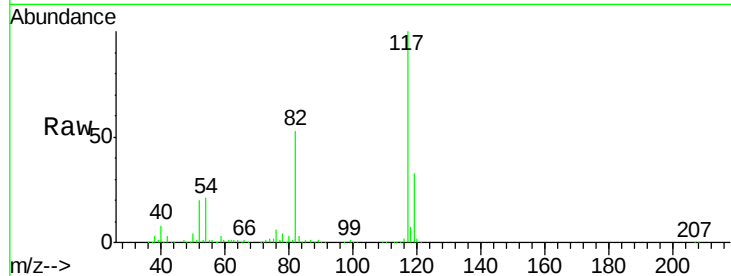




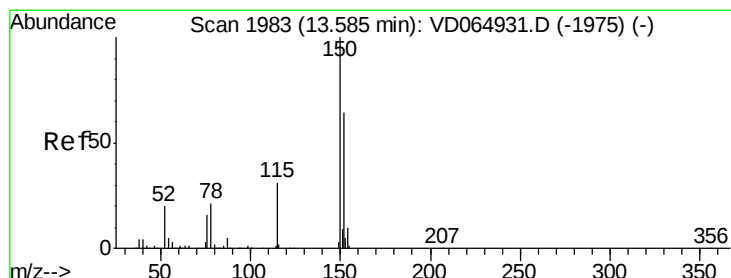
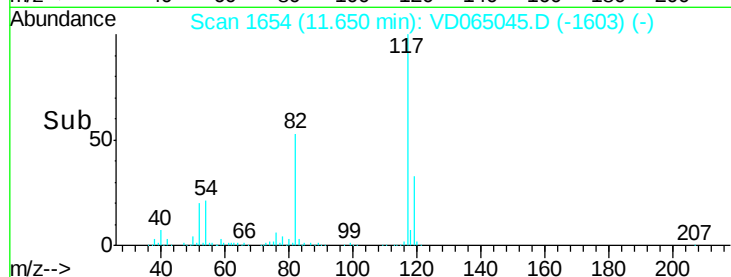
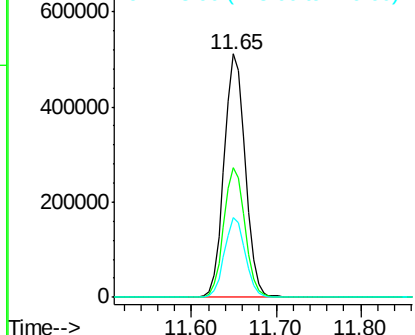
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065045.D  
Acq: 03 Feb 2020 10:47

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0203SBL01

Tgt Ion:117 Resp: 883091  
Ion Ratio Lower Upper  
117 100  
82 53.5 43.6 65.4  
119 32.6 25.2 37.8

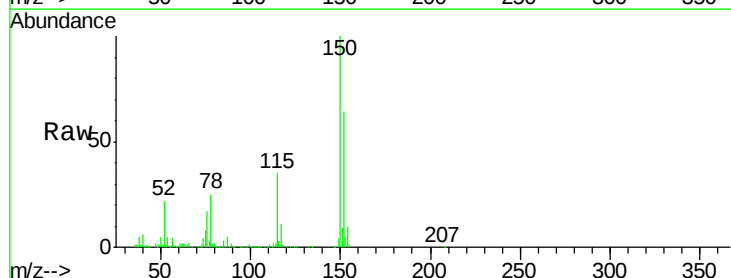


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

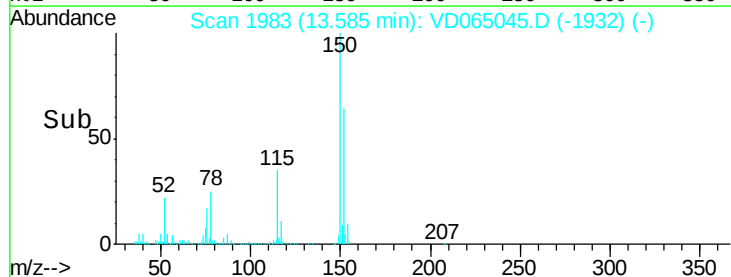
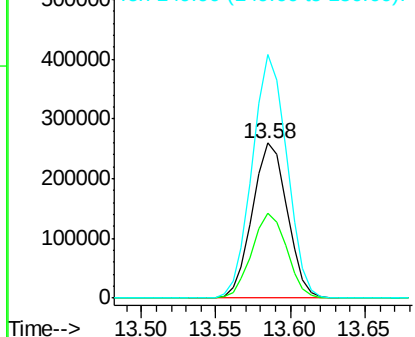


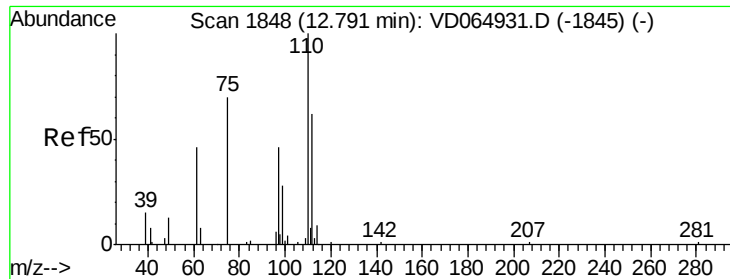
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD065045.D  
Acq: 03 Feb 2020 10:47

Tgt Ion:152 Resp: 421145  
Ion Ratio Lower Upper  
152 100  
115 54.6 28.1 84.4  
150 155.9 0.0 350.4



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

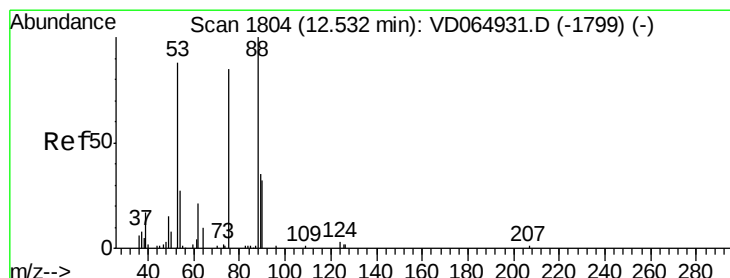
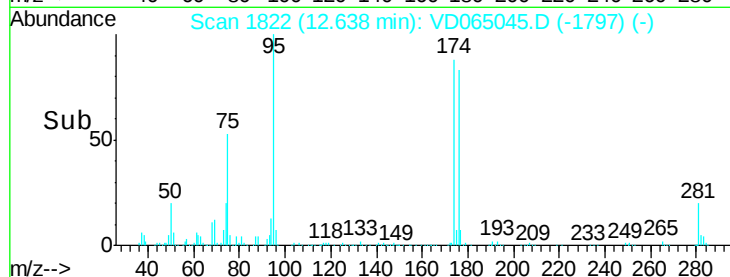
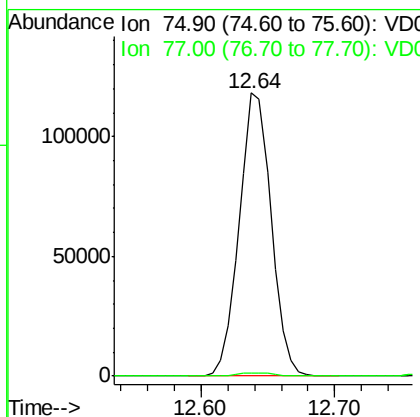
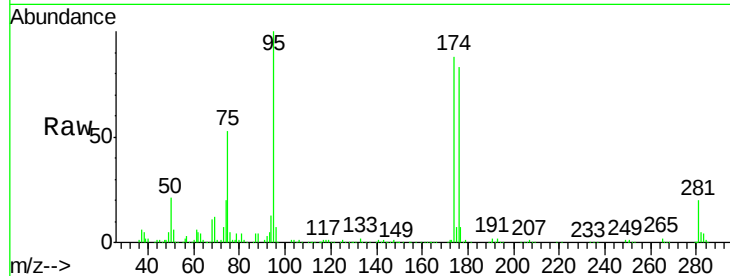




#76  
 1,2,3-Trichloropropane  
 Concen: 55.96 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. -0.15 min  
 Lab File: VD065045.D  
 Acq: 03 Feb 2020 10:47

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0203SBL01

Tgt Ion: 75 Resp: 195605  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 119.48 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.11 min  
 Lab File: VD065045.D  
 Acq: 03 Feb 2020 10:47

Tgt Ion: 75 Resp: 195605  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 81.0 121.4#  
 89 0.2 36.2 54.4#

