

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031519\  
 Data File : VD061092.D  
 Acq On : 15 Mar 2019 17:41  
 Operator : VA/AP  
 Sample : K1901-10RE  
 Misc : 5.08g/5ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-16(7-8)RE

Quant Time: Mar 16 05:43:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.08  | 168  | 442572   | 50.00 | ug/l  | 0.04     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 814997   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 541489   | 50.00 | ug/l  | 0.03     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 156503   | 50.00 | ug/l  | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.48  | 65   | 203069   | 55.12 | ug/l    | 0.04     |
| Spiked Amount               |       |      | Recovery | =     | 110.24% |          |
| 35) Dibromofluoromethane    | 6.95  | 113  | 300222   | 49.64 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 99.28%  |          |
| 50) Toluene-d8              | 10.44 | 98   | 616668   | 40.60 | ug/l    | 0.04     |
| Spiked Amount               |       |      | Recovery | =     | 81.20%  |          |
| 62) 4-Bromofluorobenzene    | 13.57 | 95   | 174152   | 29.55 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 59.10%  |          |

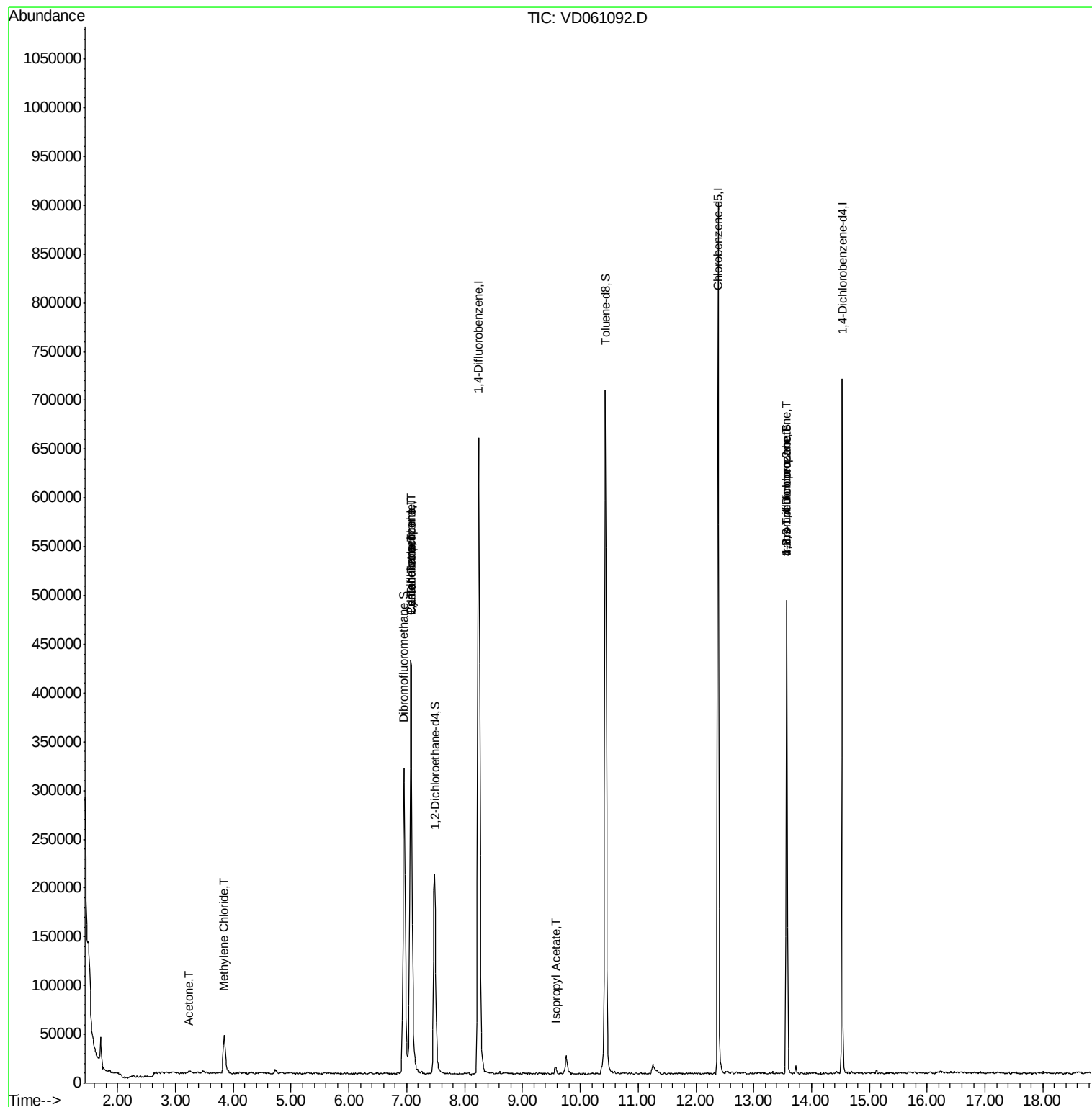
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.15  | 94   | 200      | Below Cal | #      | 8      |
| 16) Acetone                    | 3.24  | 43   | 3914     | 3.715     | ug/l # | 48     |
| 20) Methylene Chloride         | 3.84  | 84   | 29763    | 1.690     | ug/l   | 87     |
| 31) Cyclohexane                | 7.08  | 56   | 7076     | 1.085     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.07  | 75   | 30888    | 4.397     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.08  | 117  | 41326    | 5.340     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 9.57  | 43   | 5815     | 1.274     | ug/l # | 43     |
| 76) 1,2,3-Trichloropropane     | 13.57 | 75   | 61121    | 27.146    | ug/l # | 44     |
| 81) trans-1,4-Dichloro-2-buten | 13.57 | 75   | 61803    | 93.103    | ug/l # | 17     |

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

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Sample : K1901-10RE  
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ALS Vial : 16 Sample Multiplier: 1

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MSVOA\_D  
ClientSampleId :  
SB-16(7-8)RE

Quant Time: Mar 16 05:43:54 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 08 02:35:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 574

Delta R.T. 0.04 min

Lab File: VD061092.D

Acq: 15 Mar 2019 17:41

Instrument :

MSVOA\_D

ClientSampleId :

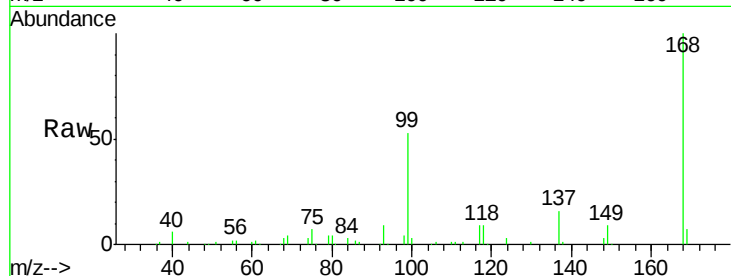
SB-16(7-8)RE

Tot Ion:168 Resp: 442572

Ion Ratio Lower Upper

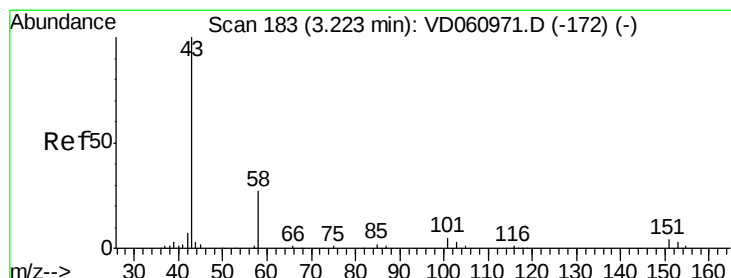
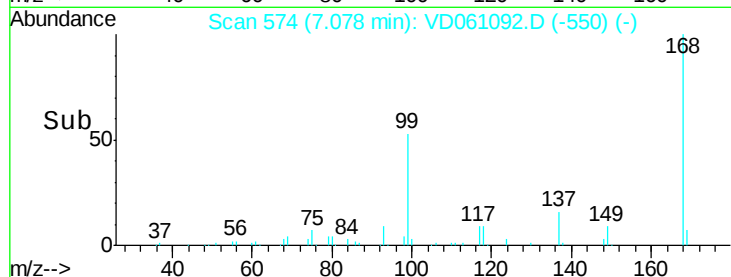
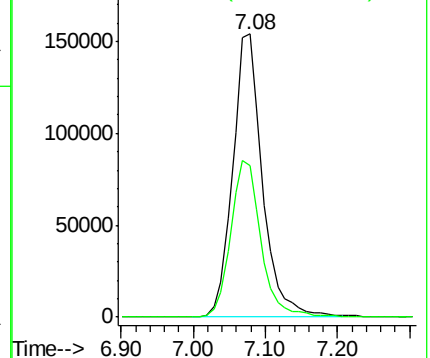
168 100

99 53.4 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 3.715 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD061092.D

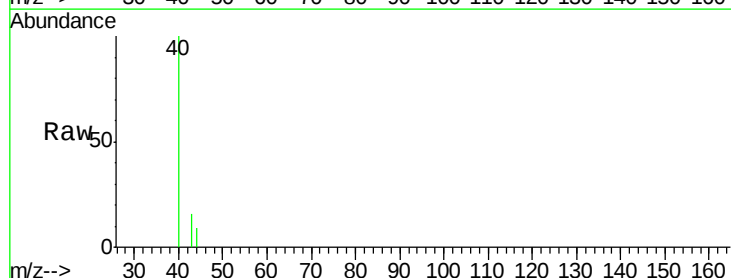
Acq: 15 Mar 2019 17:41

Tgt Ion: 43 Resp: 3914

Ion Ratio Lower Upper

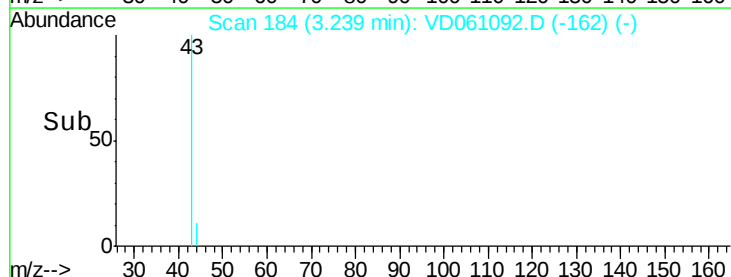
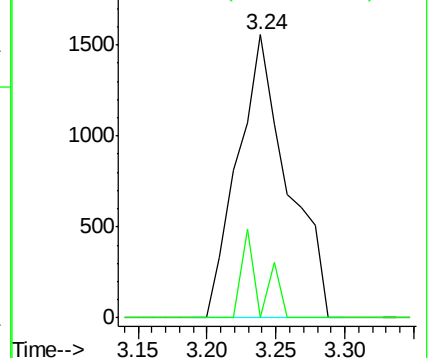
43 100

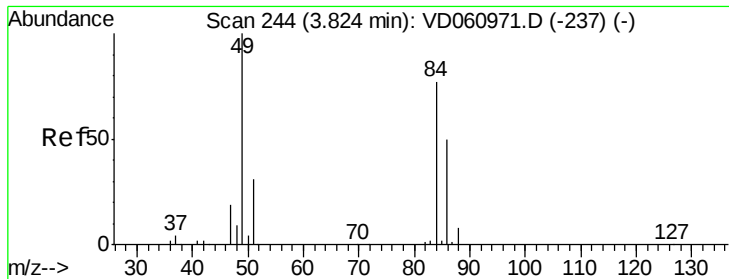
58 0.0 21.6 32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

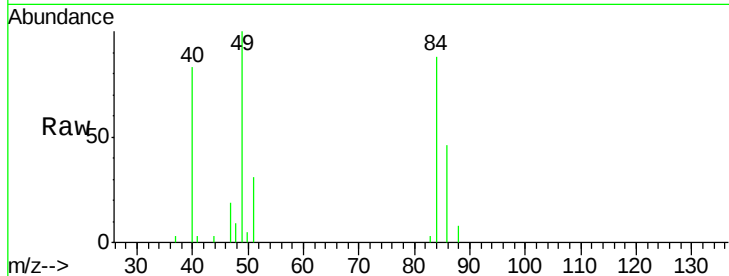




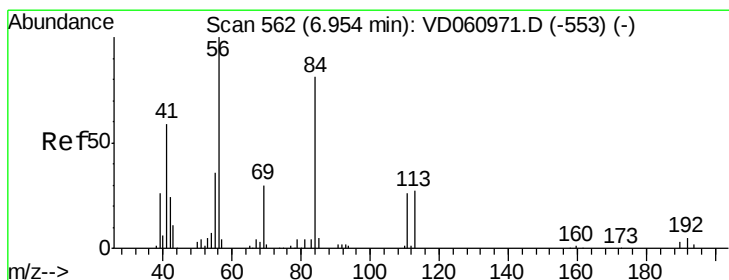
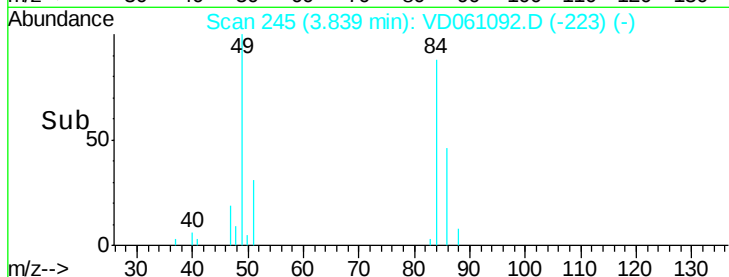
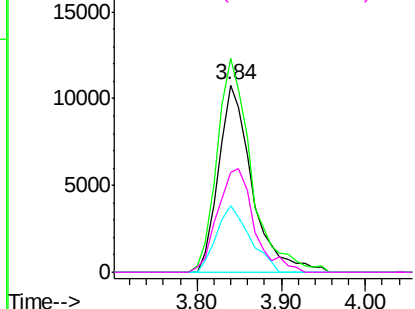
#20  
Methvlene Chloride  
Concen: 1.690 ug/l  
RT: 3.84 min Scan# 245  
Delta R.T. 0.02 min  
Lab File: VD061092.D  
Acq: 15 Mar 2019 17:41

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-16(7-8)RE

Tot Ion: 84 Resp: 29763  
Ion Ratio Lower Upper  
84 100  
49 114.0 104.2 156.2  
51 35.5 32.3 48.5  
86 53.0 52.3 78.5

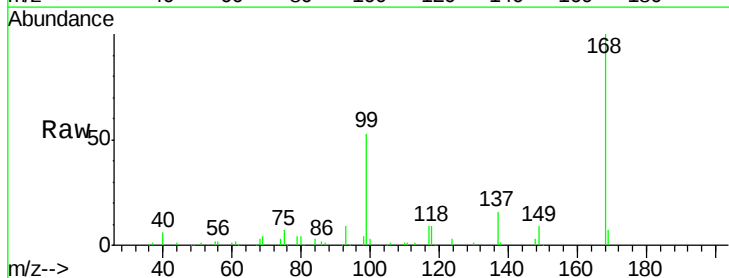


Abundance Ion 83.95 (83.65 to 84.65): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

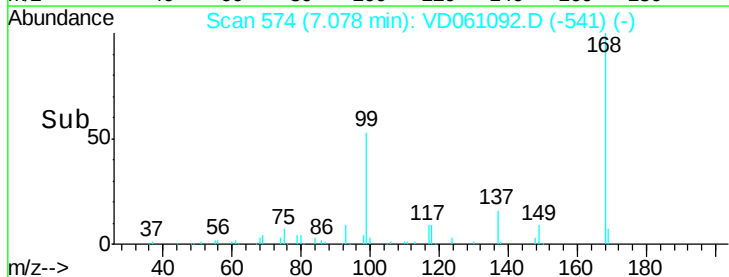
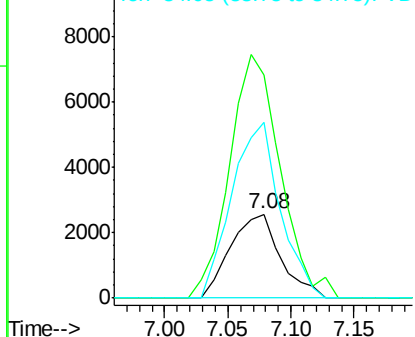


#31  
Cyclohexane  
Concen: 1.085 ug/l  
RT: 7.08 min Scan# 574  
Delta R.T. 0.12 min  
Lab File: VD061092.D  
Acq: 15 Mar 2019 17:41

Tgt Ion: 56 Resp: 7076  
Ion Ratio Lower Upper  
56 100  
69 267.7 24.0 36.0#  
84 209.8 65.8 98.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.04 min

Lab File: VD061092.D

Acq: 15 Mar 2019 17:41

Instrument :

MSVOA\_D

ClientSampleId :

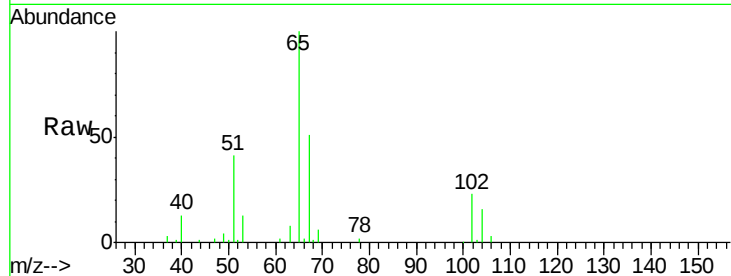
SB-16(7-8)RE

Tot Ion: 65 Resp: 203069

Ion Ratio Lower Upper

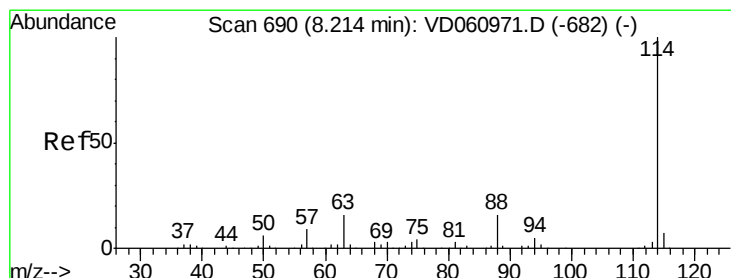
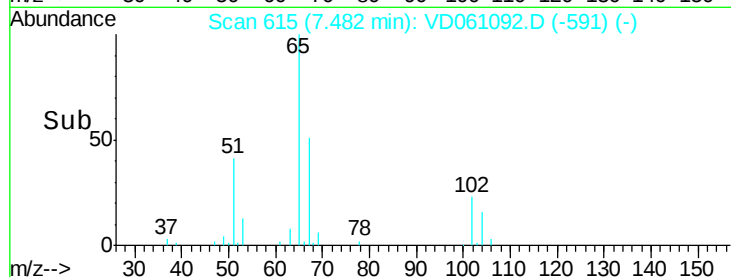
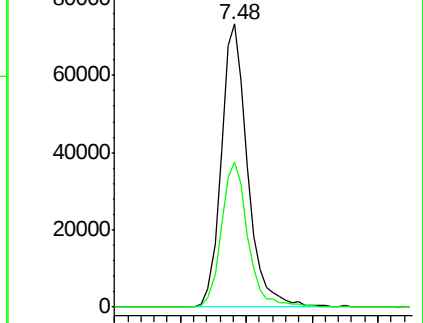
65 100

67 51.1 0.0 105.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 692

Delta R.T. 0.03 min

Lab File: VD061092.D

Acq: 15 Mar 2019 17:41

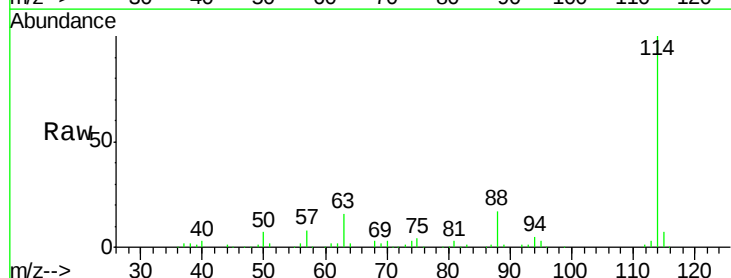
Tgt Ion: 114 Resp: 814997

Ion Ratio Lower Upper

114 100

63 16.0 0.0 31.4

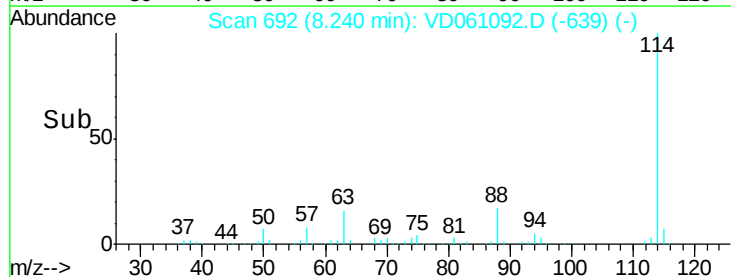
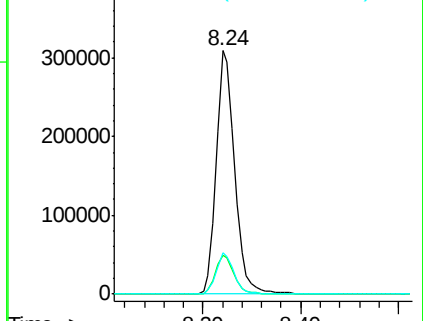
88 17.0 0.0 33.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.95 min Scan# 561

Delta R.T. 0.03 min

Lab File: VD061092.D

Acq: 15 Mar 2019 17:41

Instrument :

MSVOA\_D

ClientSampleId :

SB-16(7-8)RE

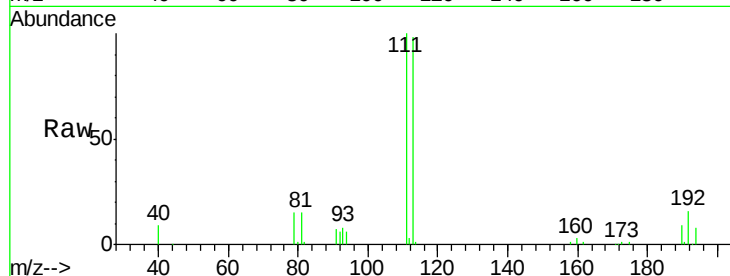
Tot Ion:113 Resp: 300222

Ion Ratio Lower Upper

113 100

111 101.9 84.2 126.4

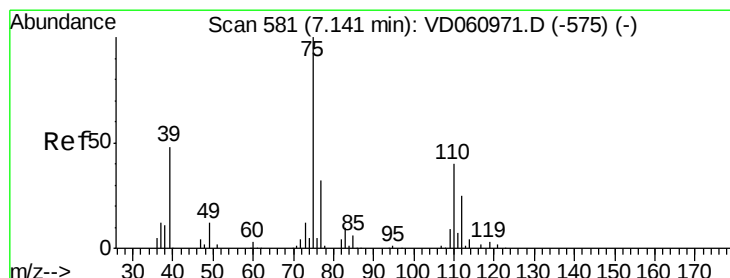
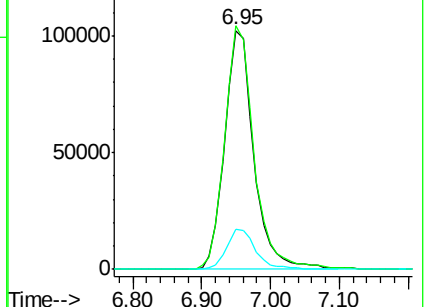
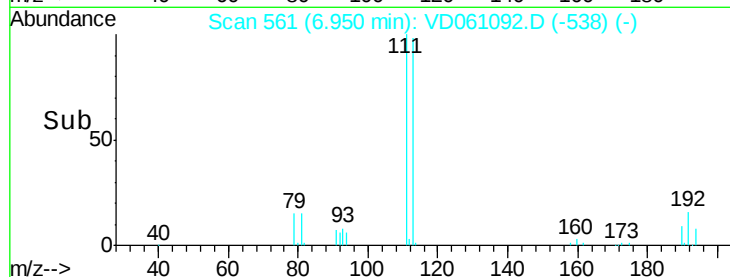
192 16.7 13.1 19.7



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 4.397 ug/l

RT: 7.07 min Scan# 573

Delta R.T. -0.07 min

Lab File: VD061092.D

Acq: 15 Mar 2019 17:41

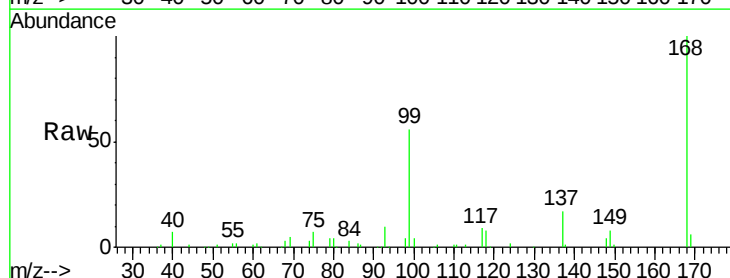
Tgt Ion: 75 Resp: 30888

Ion Ratio Lower Upper

75 100

110 7.5 19.7 59.1#

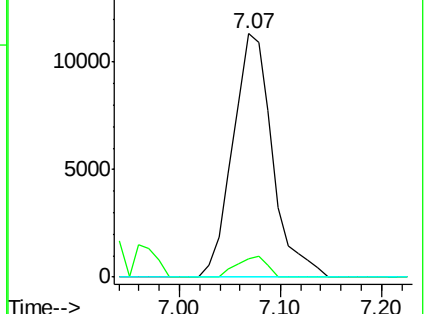
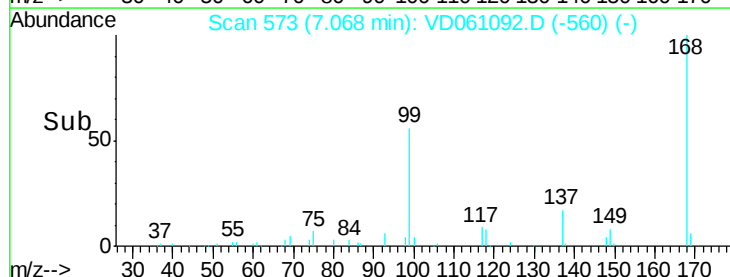
77 0.0 24.7 37.1#

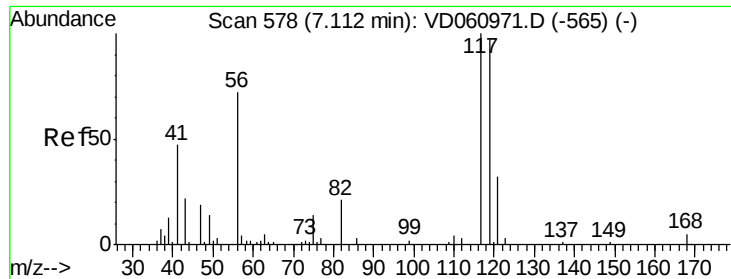


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

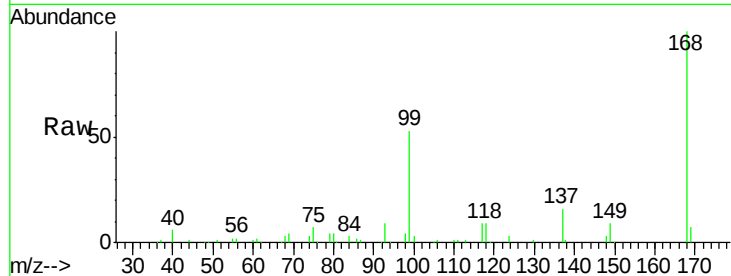




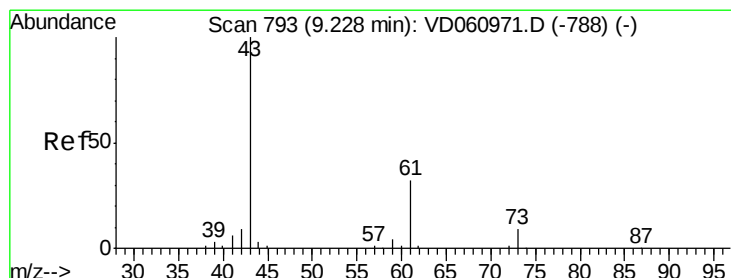
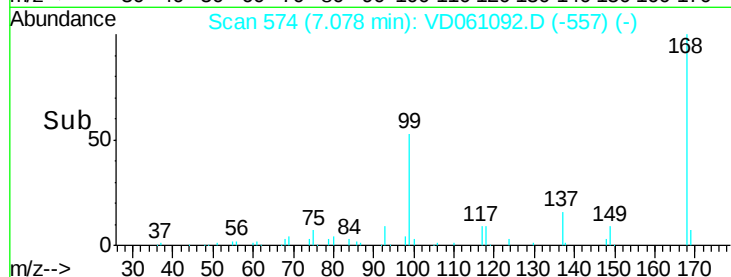
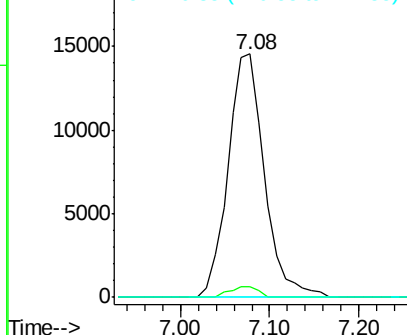
#38  
Carbon Tetrachloride  
Concen: 5.340 ug/l  
RT: 7.08 min Scan# 574  
Delta R.T. -0.03 min  
Lab File: VD061092.D  
Acq: 15 Mar 2019 17:41

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-16(7-8)RE

Tot Ion:117 Resp: 41326  
Ion Ratio Lower Upper  
117 100  
119 4.3 77.8 116.8#  
121 0.0 25.3 37.9#

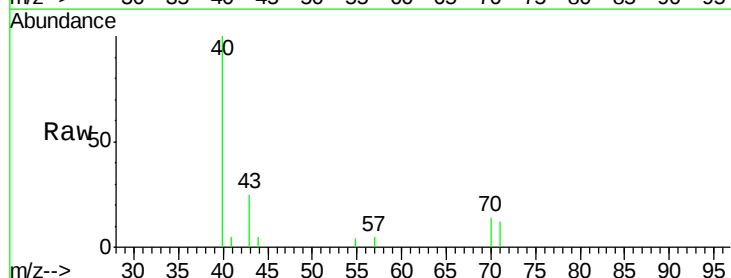


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

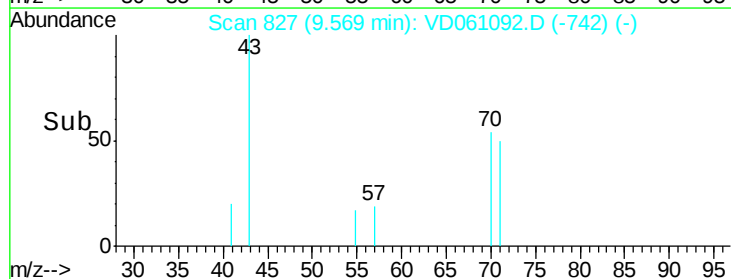
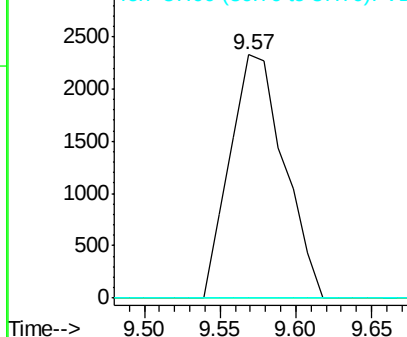


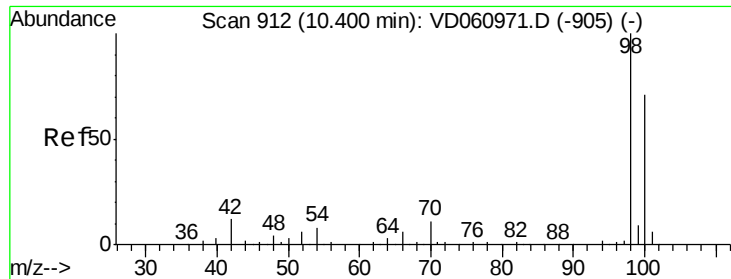
#43  
Isopropyl Acetate  
Concen: 1.274 ug/l  
RT: 9.57 min Scan# 827  
Delta R.T. 0.34 min  
Lab File: VD061092.D  
Acq: 15 Mar 2019 17:41

Tgt Ion: 43 Resp: 5815  
Ion Ratio Lower Upper  
43 100  
61 0.0 25.6 38.4#  
87 0.0 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 87.00 (86.70 to 87.70): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.44 min Scan# 915

Delta R.T. 0.04 min

Lab File: VD061092.D

Acq: 15 Mar 2019 17:41

Instrument :

MSVOA\_D

ClientSampleId :

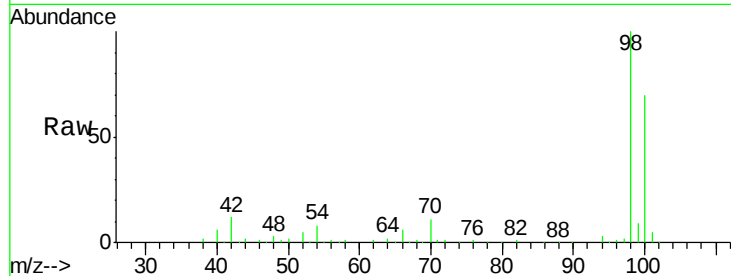
SB-16(7-8)RE

Tot Ion: 98 Resp: 616668

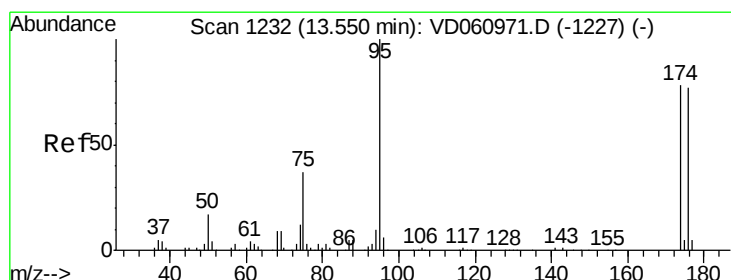
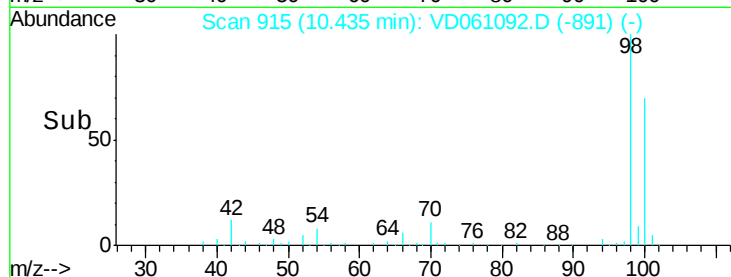
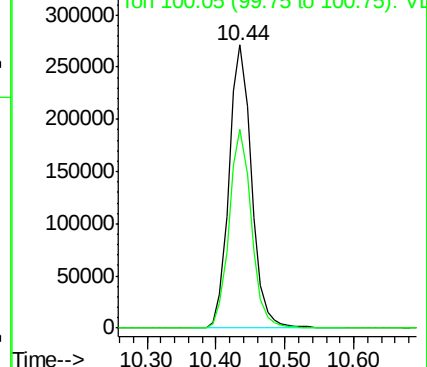
Ion Ratio Lower Upper

98 100

100 70.3 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD061092.D

Acq: 15 Mar 2019 17:41

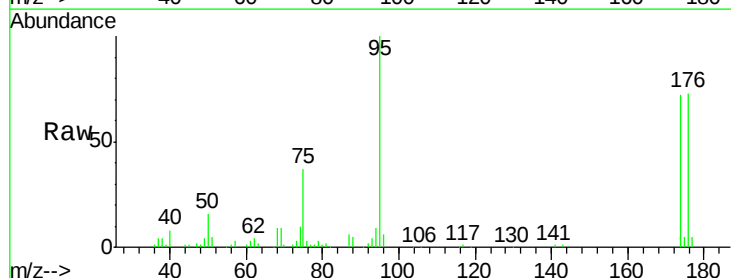
Tgt Ion: 95 Resp: 174152

Ion Ratio Lower Upper

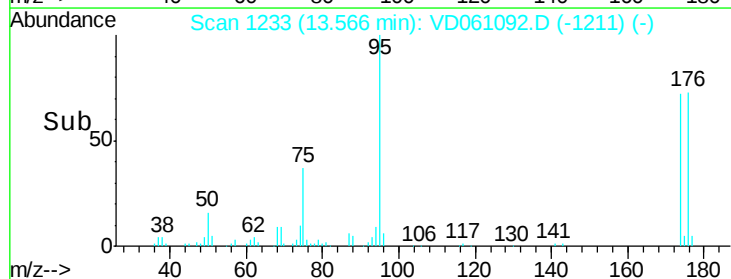
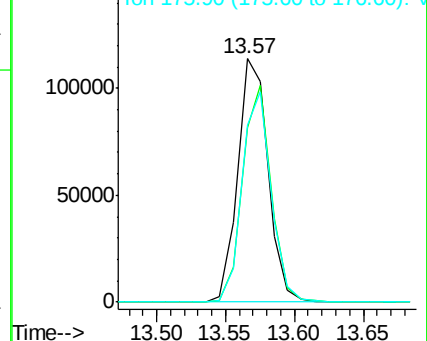
95 100

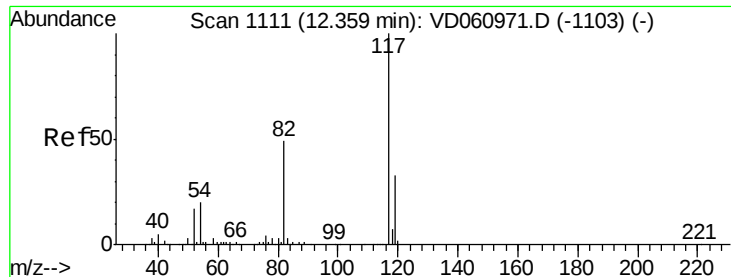
174 71.6 0.0 155.6

176 73.0 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): VD060971.D (-1227) (-)

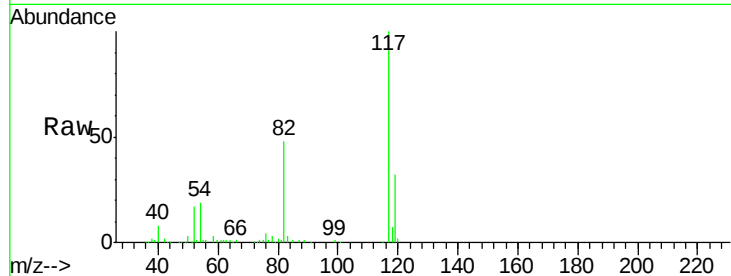




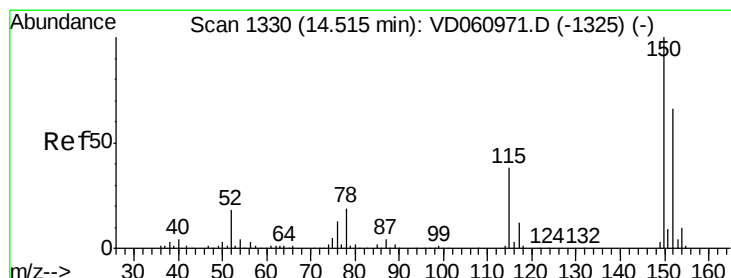
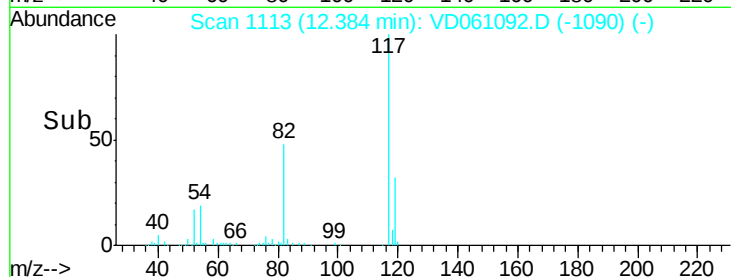
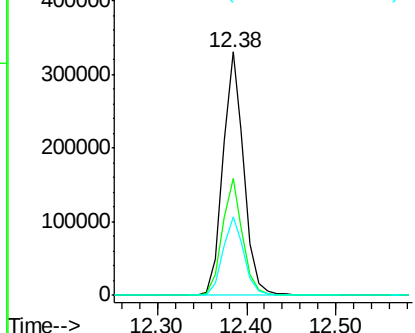
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1113  
Delta R.T. 0.03 min  
Lab File: VD061092.D  
Acq: 15 Mar 2019 17:41

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-16(7-8)RE

Tot Ion:117 Resp: 541489  
Ion Ratio Lower Upper  
117 100  
82 48.1 38.9 58.3  
119 32.5 26.6 39.8

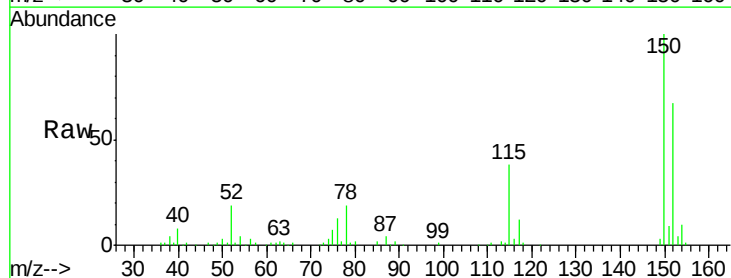


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

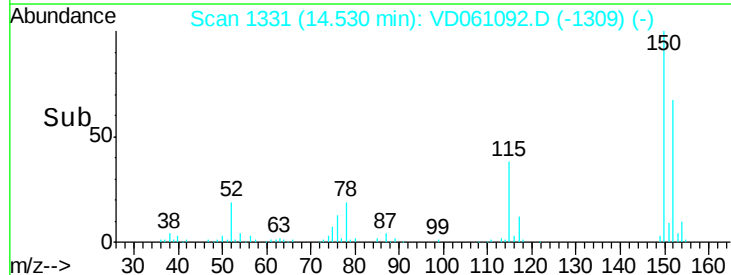
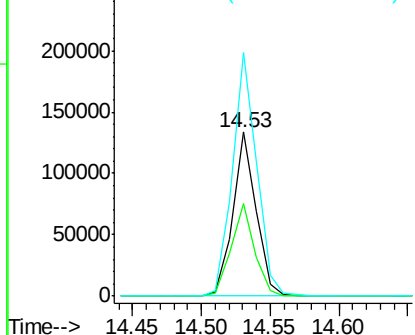


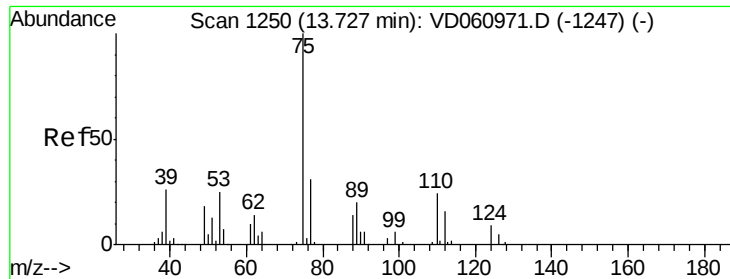
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.53 min Scan# 1331  
Delta R.T. 0.02 min  
Lab File: VD061092.D  
Acq: 15 Mar 2019 17:41

Tgt Ion:152 Resp: 156503  
Ion Ratio Lower Upper  
152 100  
115 56.2 28.6 85.9  
150 148.5 0.0 310.6



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V

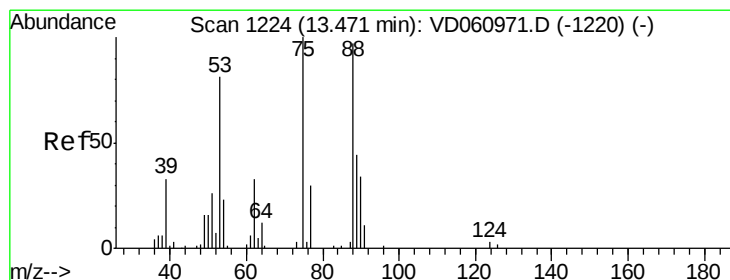
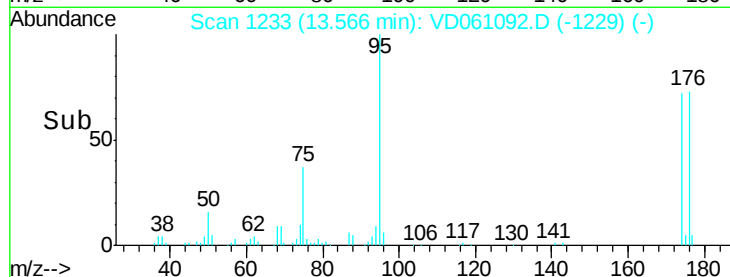
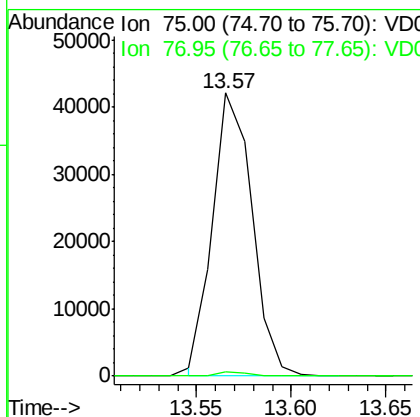
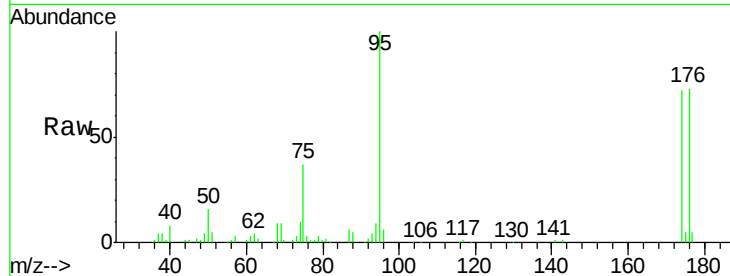




#76  
 1,2,3-Trichloropropane  
 Concen: 27.146 ug/l  
 RT: 13.57 min Scan# 1233  
 Delta R.T. -0.16 min  
 Lab File: VD061092.D  
 Acq: 15 Mar 2019 17:41

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-16(7-8)RE

Tot Ion: 75 Resp: 61121  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 16.6 49.7#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 93.103 ug/l  
 RT: 13.57 min Scan# 1233  
 Delta R.T. 0.09 min  
 Lab File: VD061092.D  
 Acq: 15 Mar 2019 17:41

Tgt Ion: 75 Resp: 61803  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 64.4 96.6#  
 89 0.0 34.8 52.2#

