

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040919\  
 Data File : VD061701.D  
 Acq On : 10 Apr 2019 5:45  
 Operator : VA/AP  
 Sample : K2338-08  
 Misc : 5.91g/5ml/MSVOA D/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 10 06:41:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 08 10:04:03 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.08  | 168  | 481509   | 50.00 | ug/l  | 0.04     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 849235   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 12.39 | 117  | 669141   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 296688   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.49  | 65   | 263390   | 72.17 | ug/l    | 0.03     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 144.34% |          |
| 35) Dibromofluoromethane    | 6.95  | 113  | 395292   | 67.19 | ug/l    | 0.03     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 134.38% |          |
| 50) Toluene-d8              | 10.43 | 98   | 815340   | 55.16 | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 110.32% |          |
| 62) 4-Bromofluorobenzene    | 13.57 | 95   | 310233   | 63.09 | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 126.18% |          |

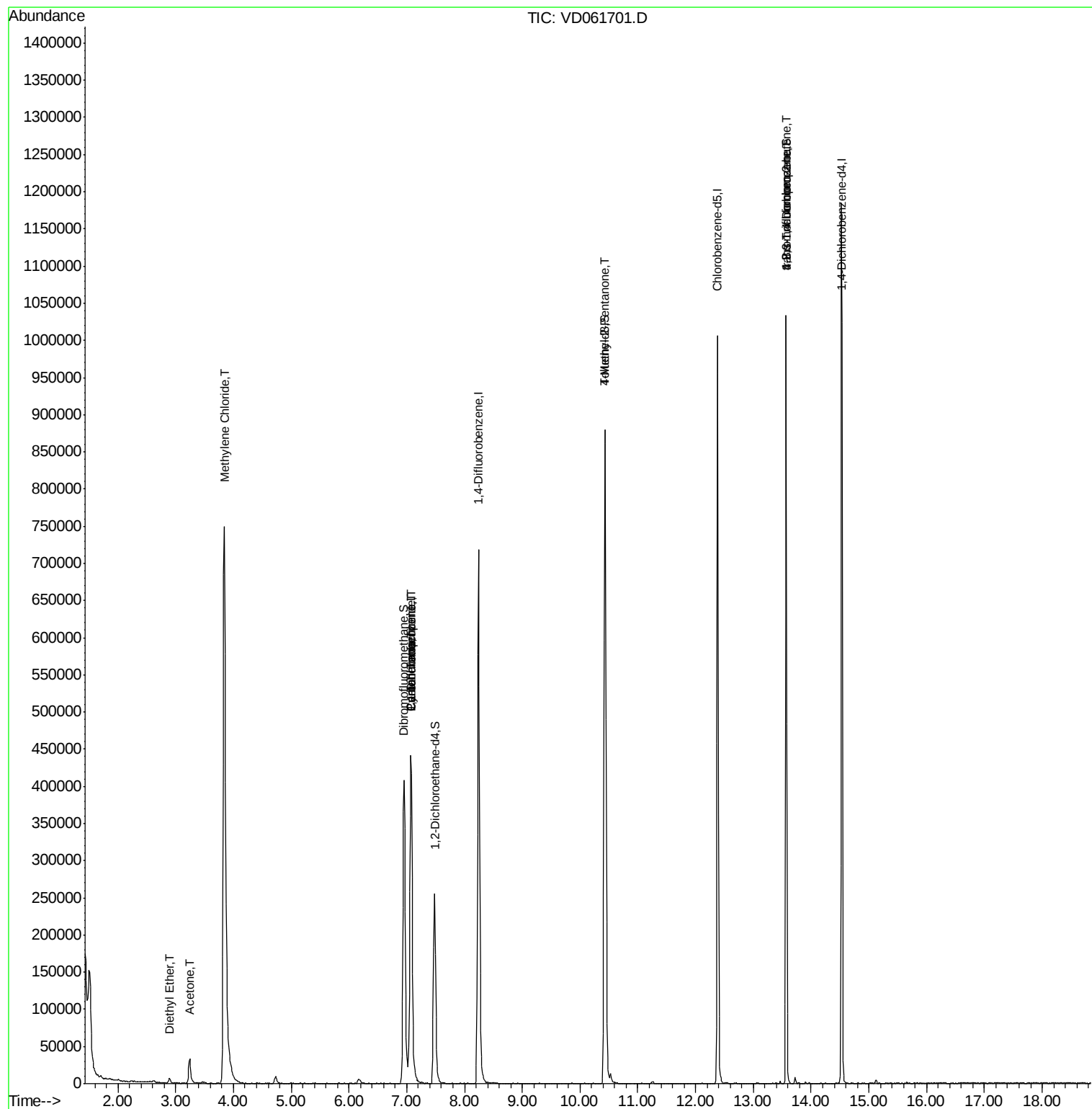
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 8) Diethyl Ether               | 2.89  | 74   | 2606     | 1.568  | ug/l   | 71     |
| 16) Acetone                    | 3.24  | 43   | 63965    | 58.627 | ug/l   | 93     |
| 20) Methylene Chloride         | 3.84  | 84   | 582815   | 94.136 | ug/l   | 97     |
| 31) Cyclohexane                | 7.07  | 56   | 7612     | 1.108  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.07  | 75   | 34305    | 4.616  | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.07  | 117  | 46640    | 5.354  | ug/l # | 14     |
| 51) 4-Methyl-2-Pentanone       | 10.44 | 43   | 3489     | 1.343  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 13.57 | 75   | 106277   | 26.329 | ug/l # | 45     |
| 81) trans-1,4-Dichloro-2-buten | 13.57 | 75   | 113457   | 92.627 | ug/l # | 20     |

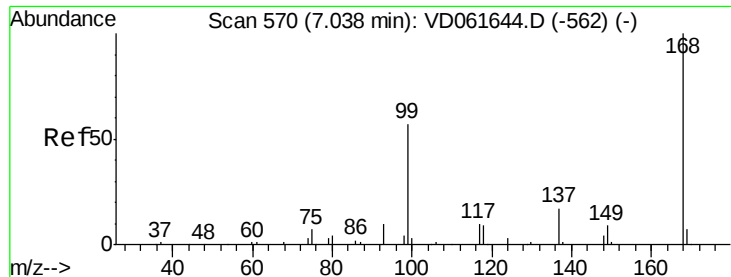
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Apr 08 10:04:03 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 575

Delta R.T. 0.04 min

Lab File: VD061701.D

Acq: 10 Apr 2019 5:45

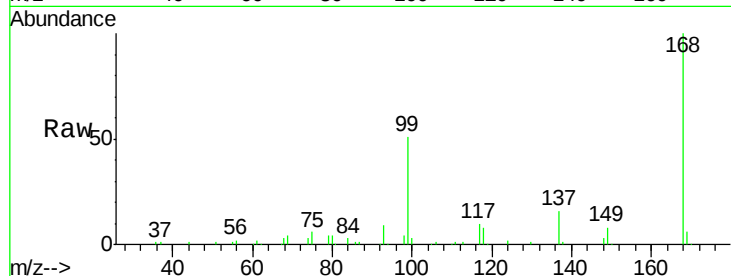
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 481509

Ion Ratio Lower Upper

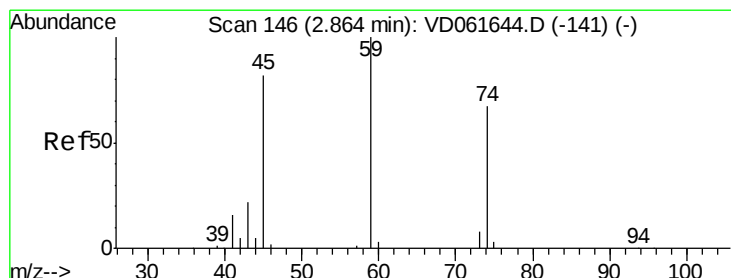
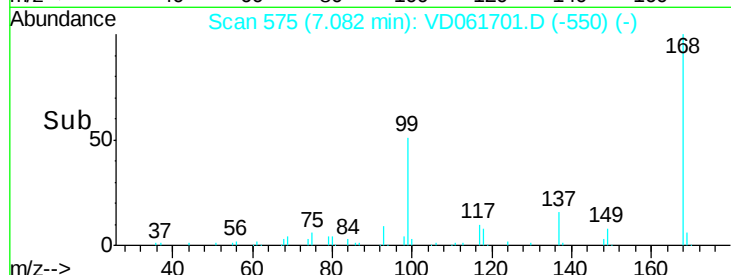
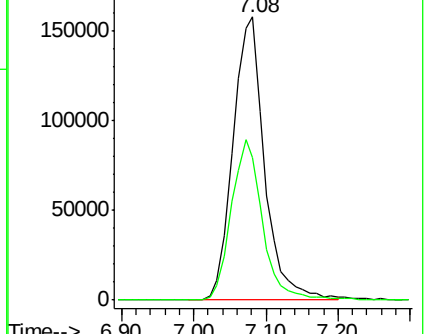
168 100

99 50.6 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.568 ug/l

RT: 2.89 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD061701.D

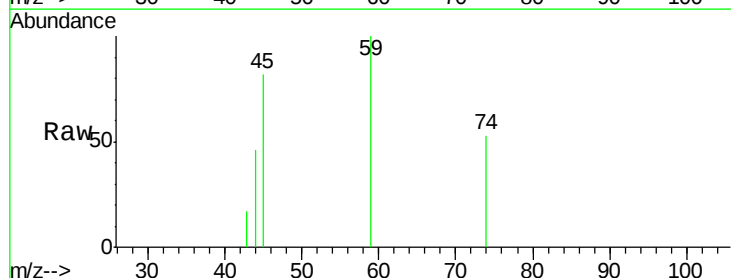
Acq: 10 Apr 2019 5:45

Tgt Ion: 74 Resp: 2606

Ion Ratio Lower Upper

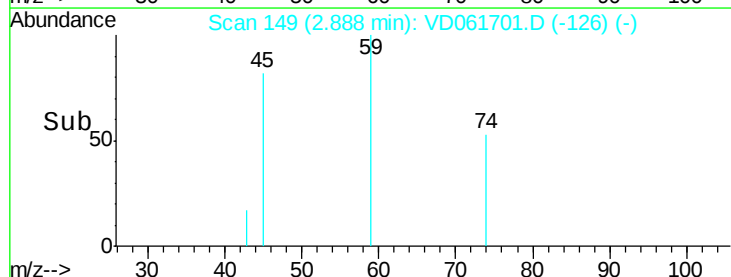
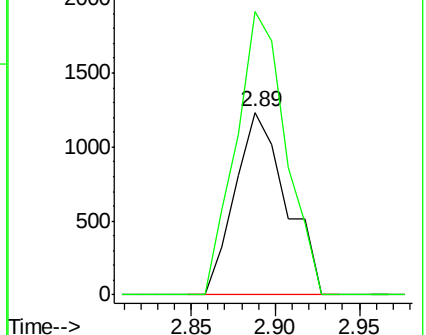
74 100

45 155.0 61.0 183.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

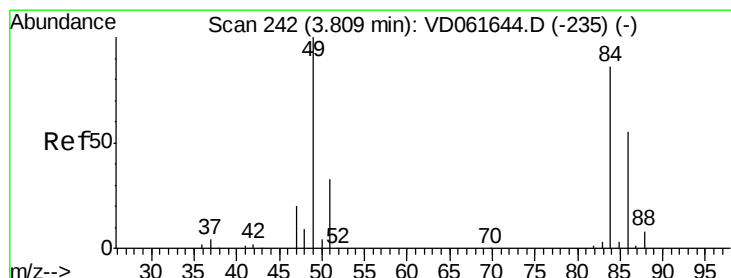
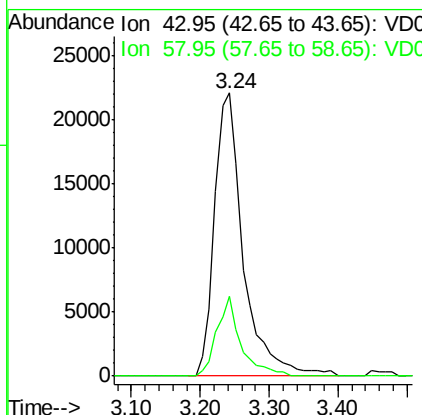
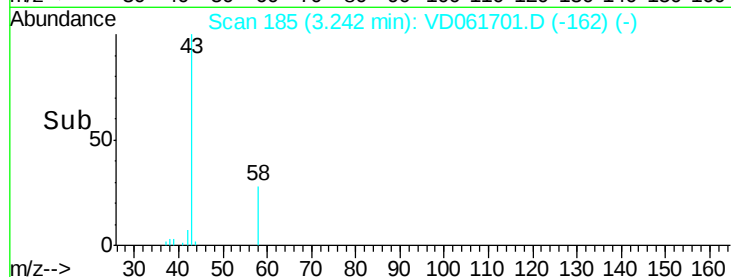
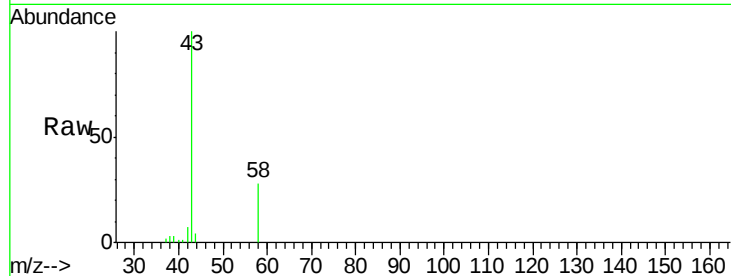




#16  
Acetone  
Concen: 58.627 ug/l  
RT: 3.24 min Scan# 185  
Delta R.T. 0.02 min  
Lab File: VD061701.D  
Acq: 10 Apr 2019 5:45

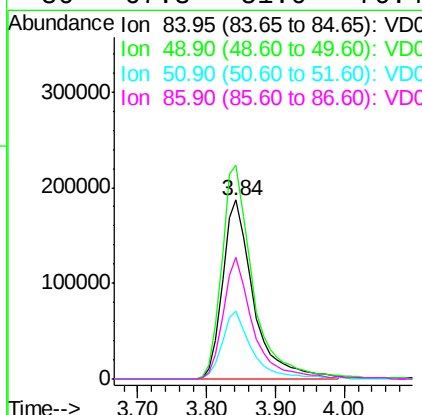
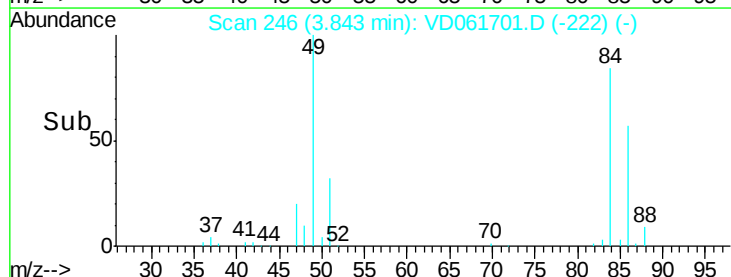
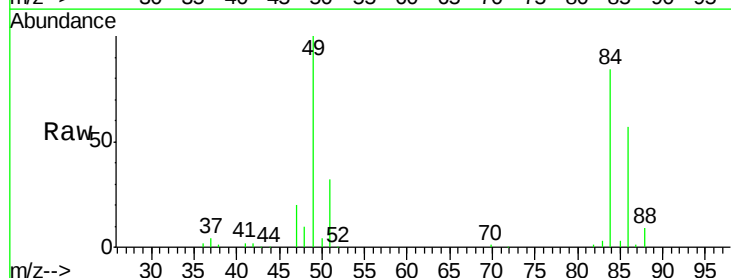
Instrument :  
MSVOA\_D  
ClientSampleId :

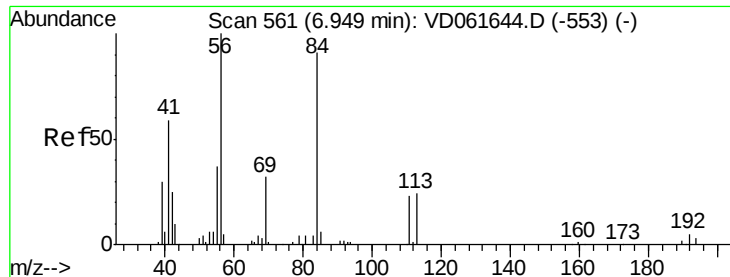
Tot Ion: 43 Resp: 63965  
Ion Ratio Lower Upper  
43 100  
58 28.1 19.7 29.5



#20  
Methylene Chloride  
Concen: 94.136 ug/l  
RT: 3.84 min Scan# 246  
Delta R.T. 0.03 min  
Lab File: VD061701.D  
Acq: 10 Apr 2019 5:45

Tgt Ion: 84 Resp: 582815  
Ion Ratio Lower Upper  
84 100  
49 119.4 93.0 139.4  
51 38.0 30.4 45.6  
86 67.8 51.0 76.4

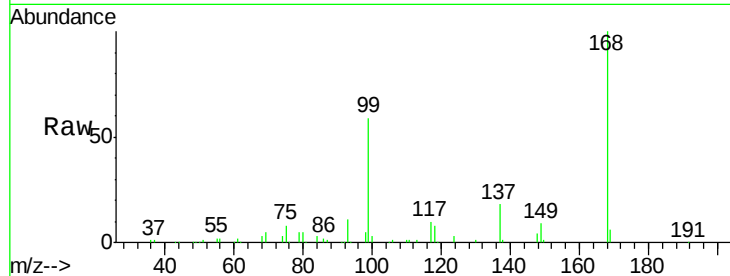




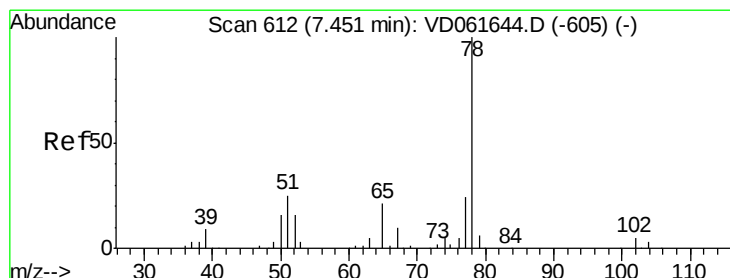
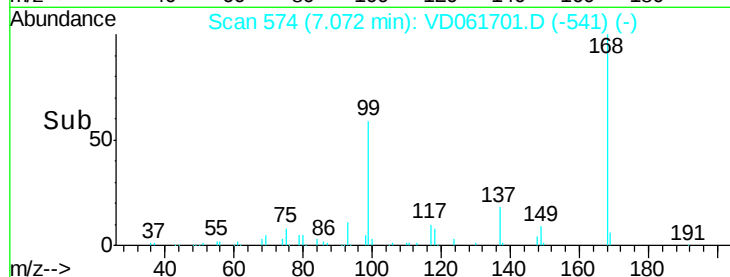
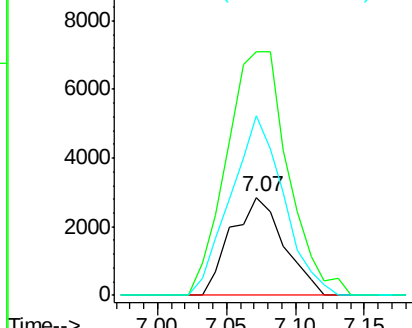
#31  
Cyclohexane  
Concen: 1.108 ug/l  
RT: 7.07 min Scan# 574  
Delta R.T. 0.12 min  
Lab File: VD061701.D  
Acq: 10 Apr 2019 5:45

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 56 Resp: 7612  
Ion Ratio Lower Upper  
56 100  
69 249.0 25.8 38.6#  
84 184.3 74.2 111.2#

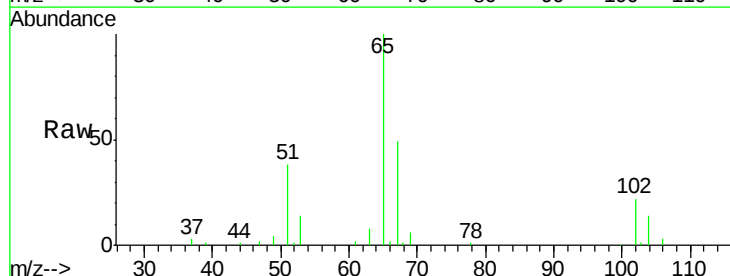


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

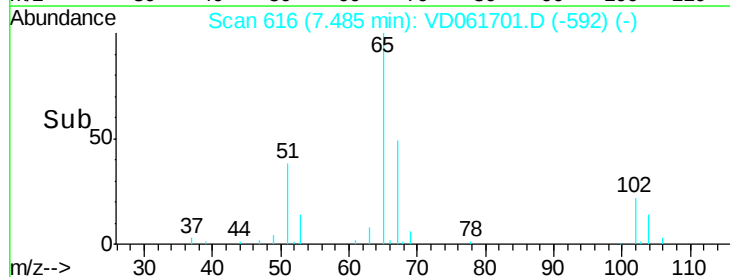
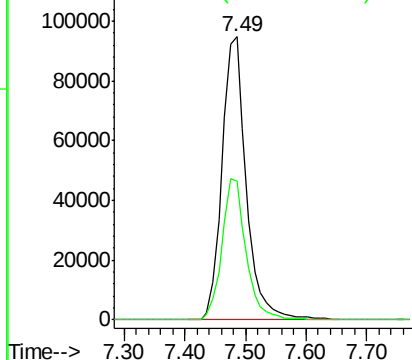


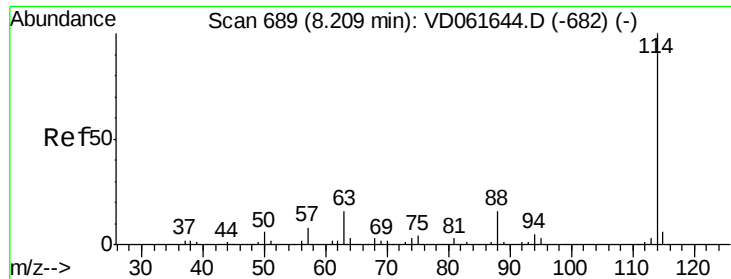
#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 7.49 min Scan# 616  
Delta R.T. 0.03 min  
Lab File: VD061701.D  
Acq: 10 Apr 2019 5:45

Tgt Ion: 65 Resp: 263390  
Ion Ratio Lower Upper  
65 100  
67 48.8 0.0 99.4



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

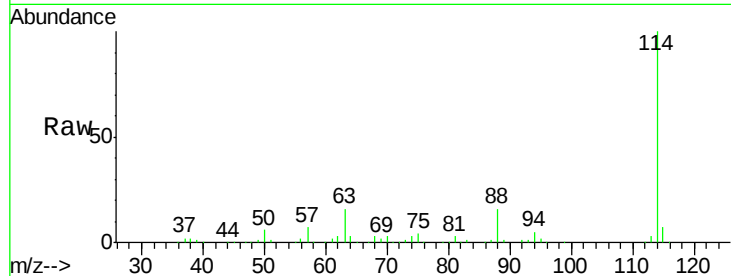




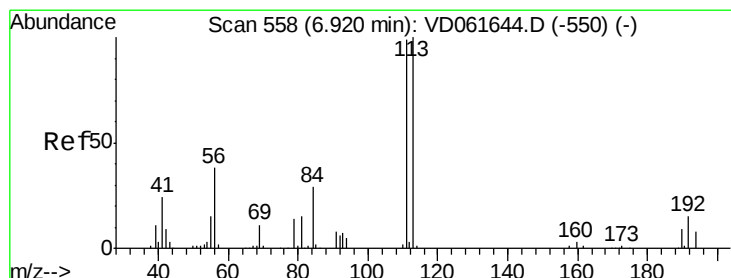
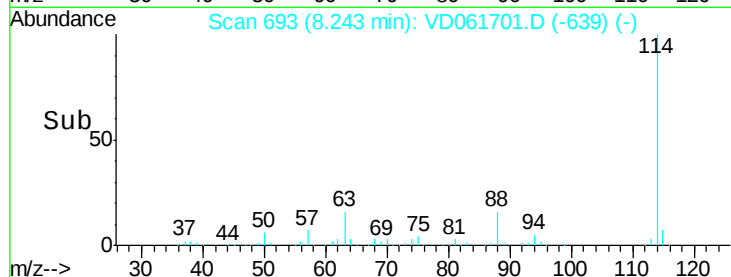
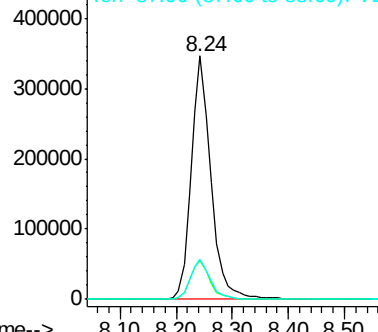
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.24 min Scan# 693  
 Delta R.T. 0.03 min  
 Lab File: VD061701.D  
 Acq: 10 Apr 2019 5:45

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:114 Resp: 849235  
 Ion Ratio Lower Upper  
 114 100  
 63 16.0 0.0 31.2  
 88 16.3 0.0 31.8

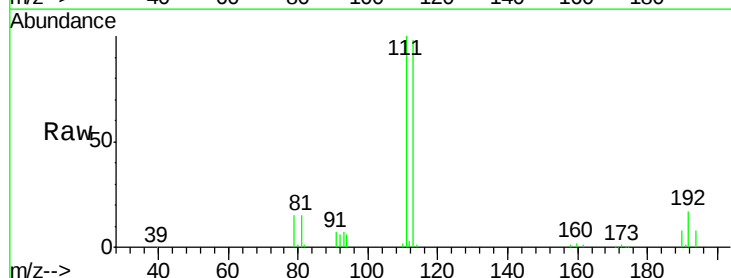


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): VDC  
 Ion 87.90 (87.60 to 88.60): VDC

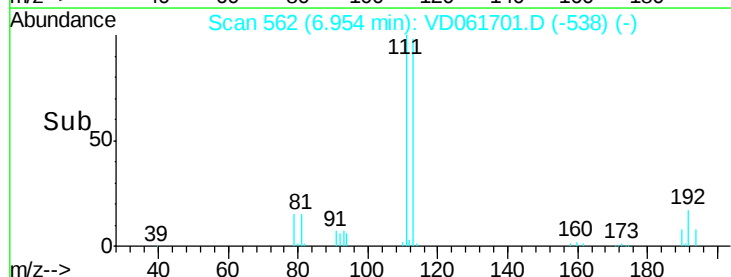
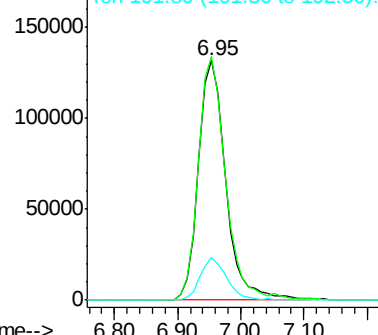


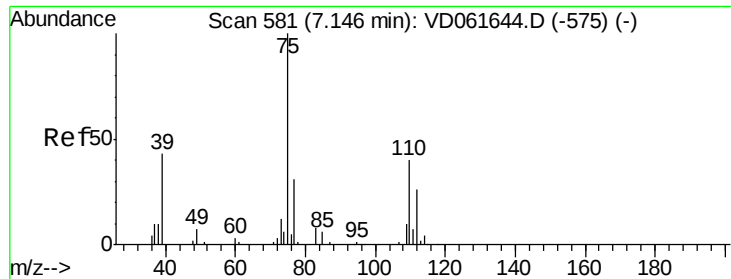
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.95 min Scan# 562  
 Delta R.T. 0.03 min  
 Lab File: VD061701.D  
 Acq: 10 Apr 2019 5:45

Tgt Ion:113 Resp: 395292  
 Ion Ratio Lower Upper  
 113 100  
 111 101.7 79.3 118.9  
 192 17.7 12.3 18.5



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: 4.616 ug/l

RT: 7.07 min Scan# 574

Delta R.T. -0.07 min

Lab File: VD061701.D

Acq: 10 Apr 2019 5:45

Instrument :  
MSVOA\_D  
ClientSampleId :

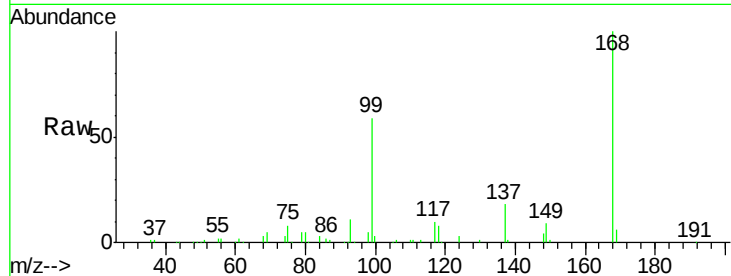
Tot Ion: 75 Resp: 34305

Ion Ratio Lower Upper

75 100

110 7.8 19.7 59.0#

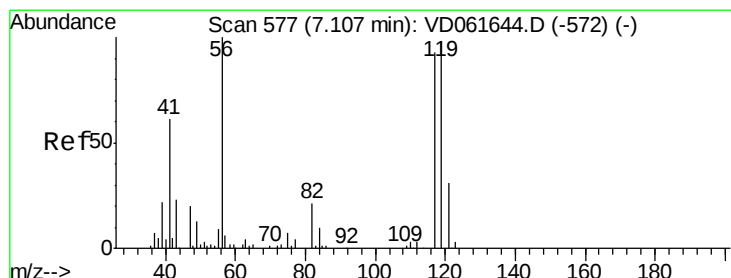
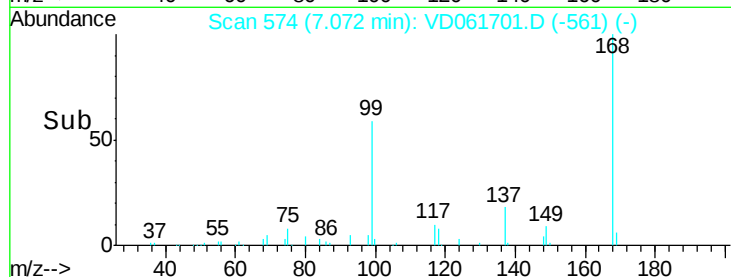
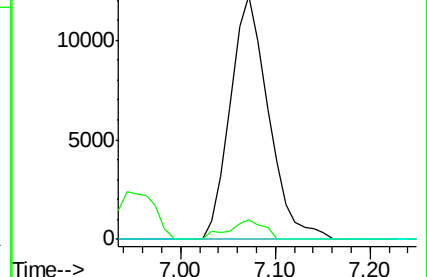
77 0.0 24.8 37.2#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 5.354 ug/l

RT: 7.07 min Scan# 574

Delta R.T. -0.03 min

Lab File: VD061701.D

Acq: 10 Apr 2019 5:45

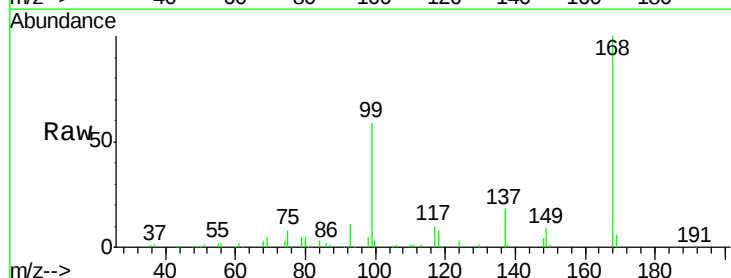
Tgt Ion: 117 Resp: 46640

Ion Ratio Lower Upper

117 100

119 3.8 77.9 116.9#

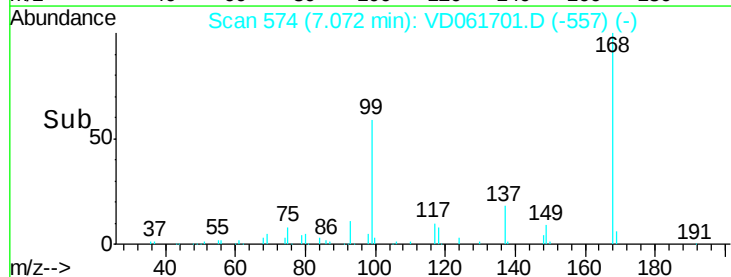
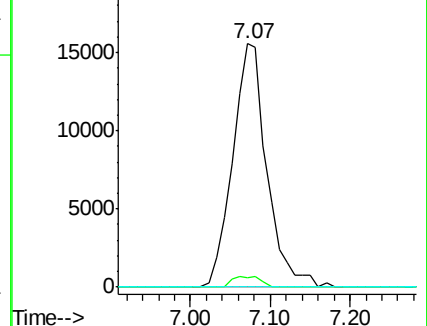
121 0.0 24.7 37.1#

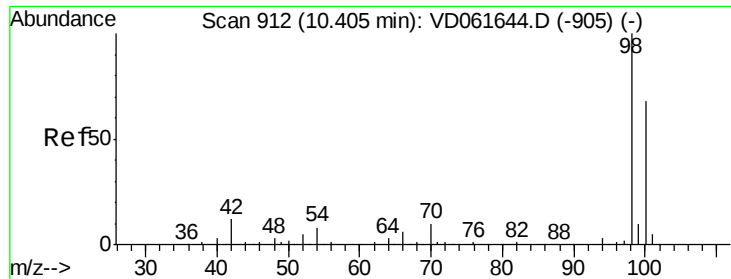


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

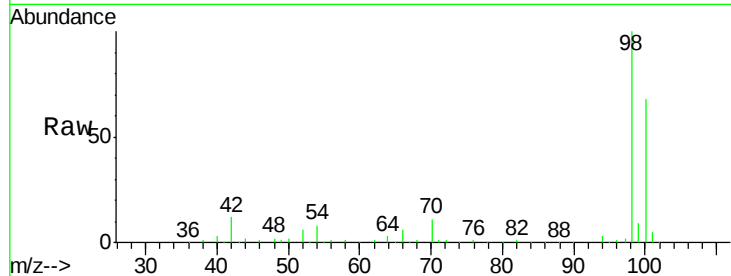




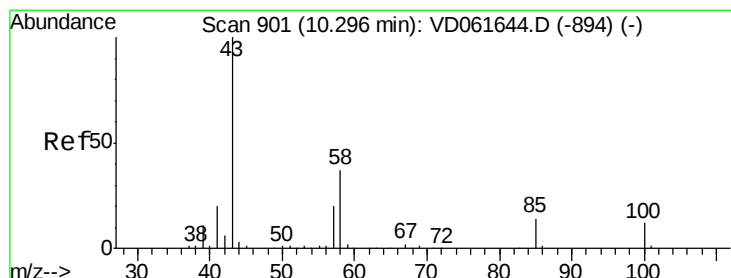
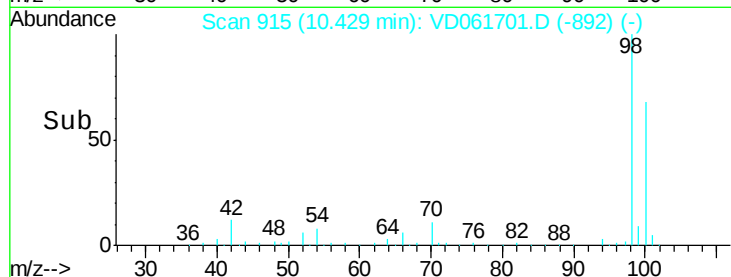
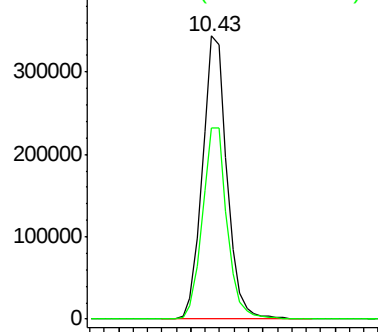
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.43 min Scan# 915  
Delta R.T. 0.02 min  
Lab File: VD061701.D  
Acq: 10 Apr 2019 5:45

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 98 Resp: 815340  
Ion Ratio Lower Upper  
98 100  
100 67.7 55.4 83.0

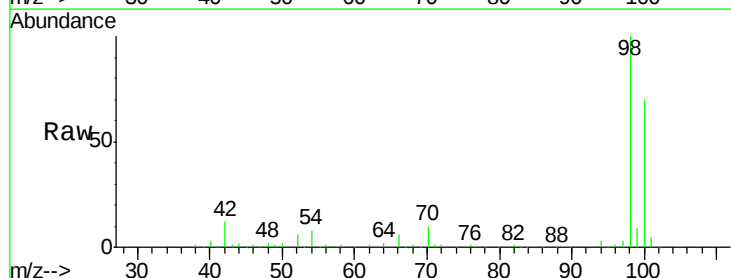


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

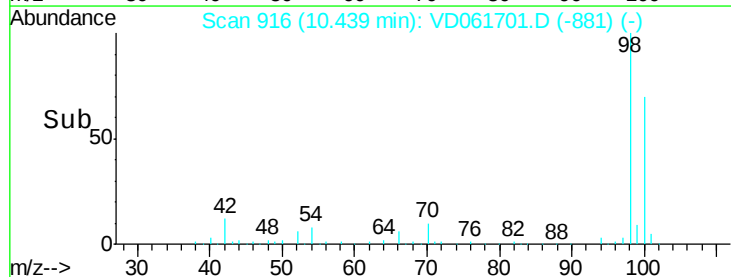
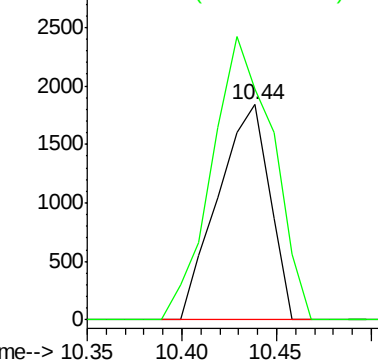


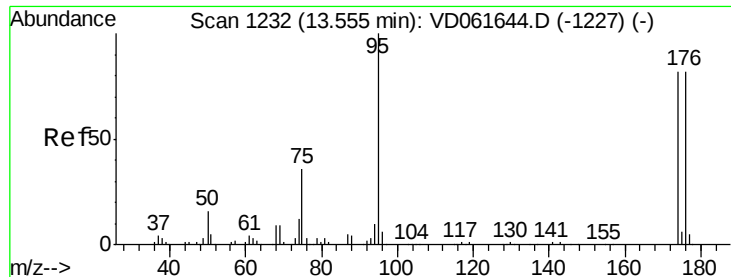
#51  
4-Methyl-2-Pentanone  
Concen: 1.343 ug/l  
RT: 10.44 min Scan# 916  
Delta R.T. 0.14 min  
Lab File: VD061701.D  
Acq: 10 Apr 2019 5:45

Tgt Ion: 43 Resp: 3489  
Ion Ratio Lower Upper  
43 100  
58 107.5 29.8 44.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD061701.D

Acq: 10 Apr 2019 5:45

Instrument :

MSVOA\_D

ClientSampleId :

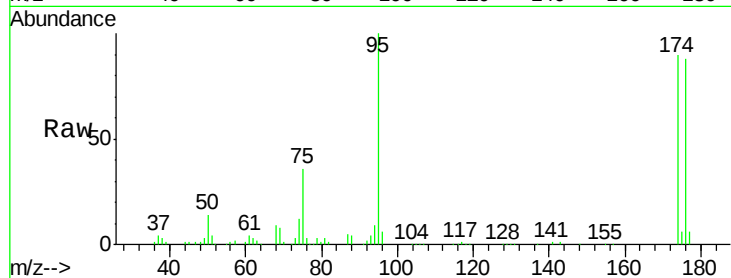
Tot Ion: 95 Resp: 310233

Ion Ratio Lower Upper

95 100

174 90.3 0.0 164.6

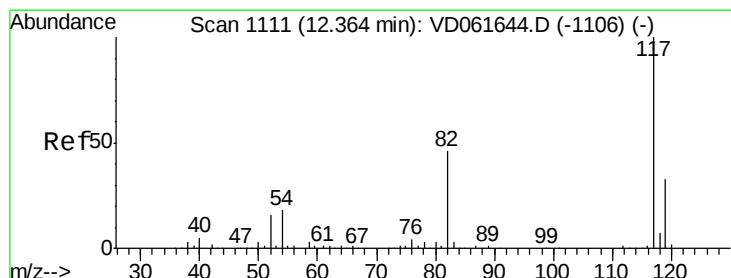
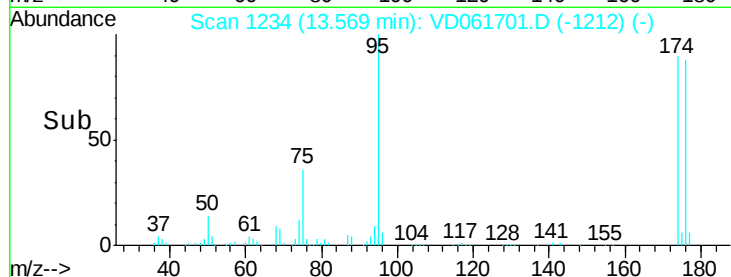
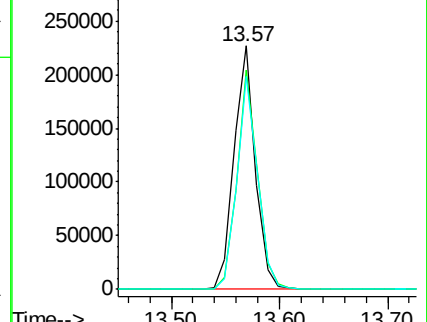
176 87.6 0.0 165.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.39 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VD061701.D

Acq: 10 Apr 2019 5:45

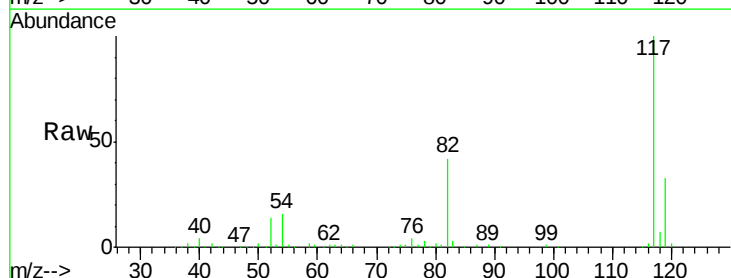
Tgt Ion: 117 Resp: 669141

Ion Ratio Lower Upper

117 100

82 42.0 36.8 55.2

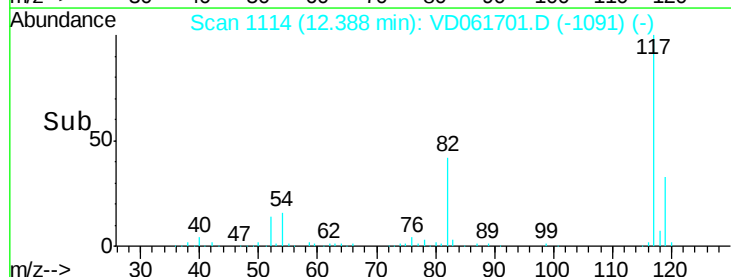
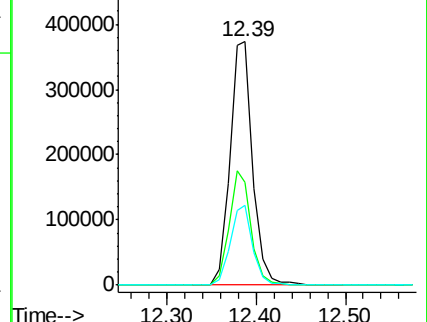
119 32.9 26.1 39.1

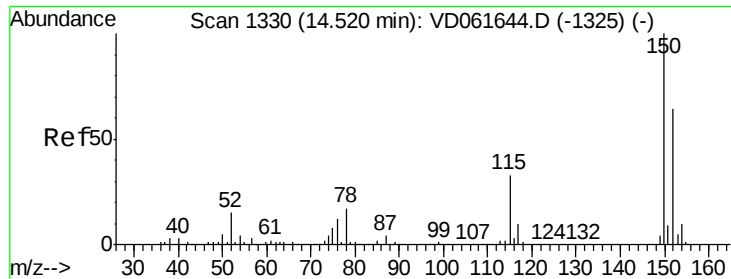


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



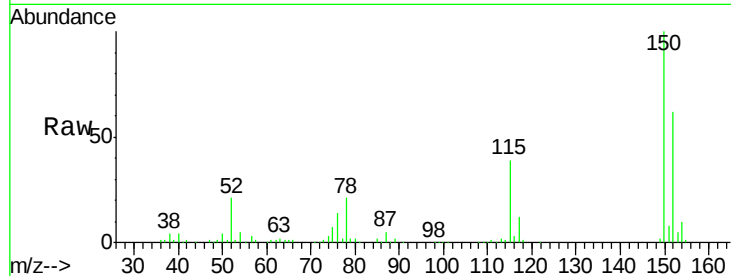


#72

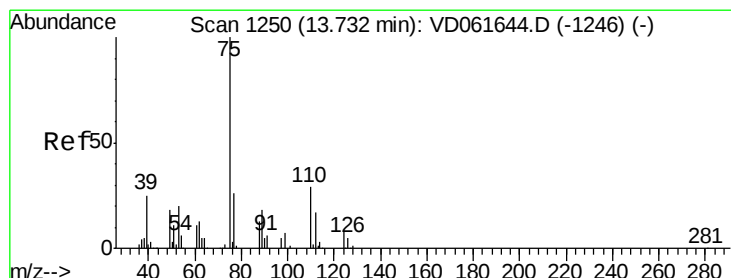
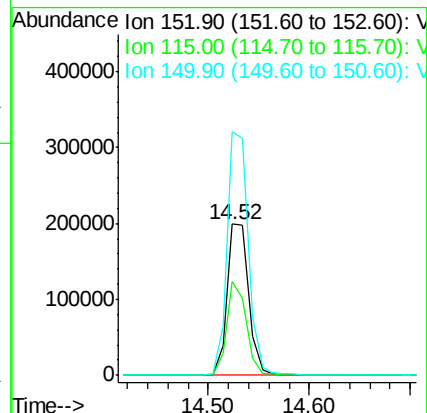
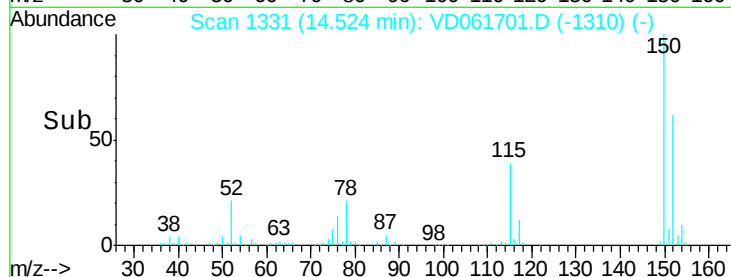
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1331  
Delta R.T. 0.00 min  
Lab File: VD061701.D  
Acq: 10 Apr 2019 5:45

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:152 Resp: 296688  
Ion Ratio Lower Upper  
152 100  
115 62.0 26.4 79.2  
150 161.0 0.0 320.6



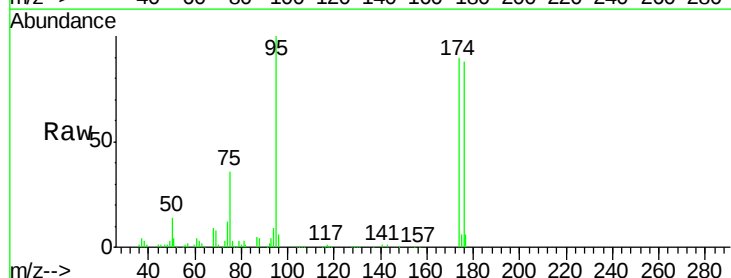
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V



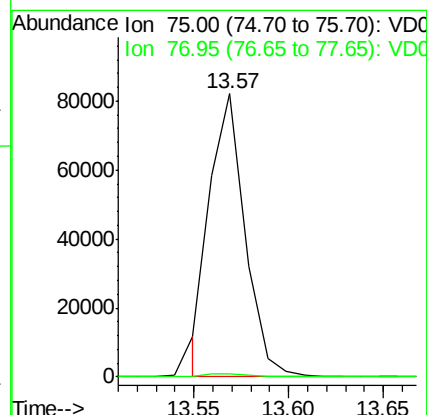
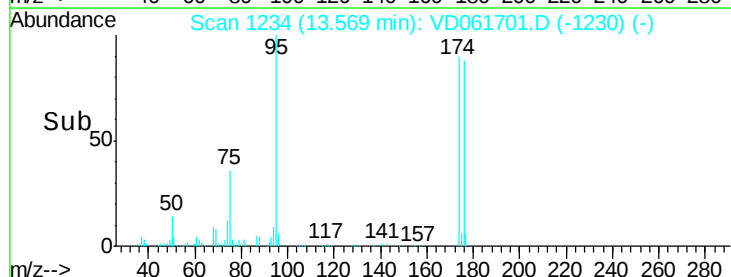
#76

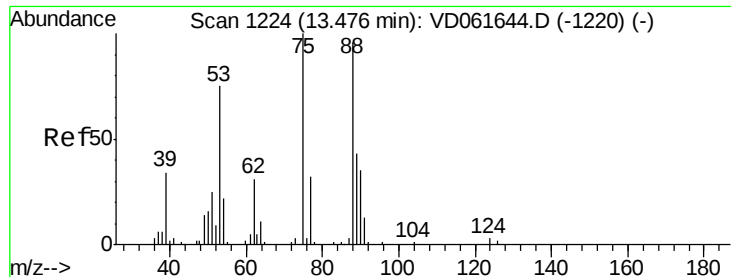
1,2,3-Trichloropropane  
Concen: 26.329 ug/l  
RT: 13.57 min Scan# 1234  
Delta R.T. -0.16 min  
Lab File: VD061701.D  
Acq: 10 Apr 2019 5:45

Tgt Ion: 75 Resp: 106277  
Ion Ratio Lower Upper  
75 100  
77 1.0 15.7 47.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 92.627 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.09 min

Lab File: VD061701.D

Acq: 10 Apr 2019 5:45

Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 75 Resp: 113457

Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

89 0.0 34.2 51.2#

