

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031919\  
 Data File : VD061195.D  
 Acq On : 19 Mar 2019 19:53  
 Operator : VA/AP  
 Sample : K1935-09RE  
 Misc : 3.08g/5ml/MSVOA D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-2(14-15)RE

Quant Time: Mar 20 01:56:31 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      | 7.03  | 168  | 326203   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 570255   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 396964   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 118531   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 167162   | 61.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 123.12% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 252128   | 59.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 119.16% |          |
| 50) Toluene-d8              | 10.39 | 98   | 508898   | 47.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.76%  |          |
| 62) 4-Bromofluorobenzene    | 13.54 | 95   | 132949   | 32.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 64.48%  |          |

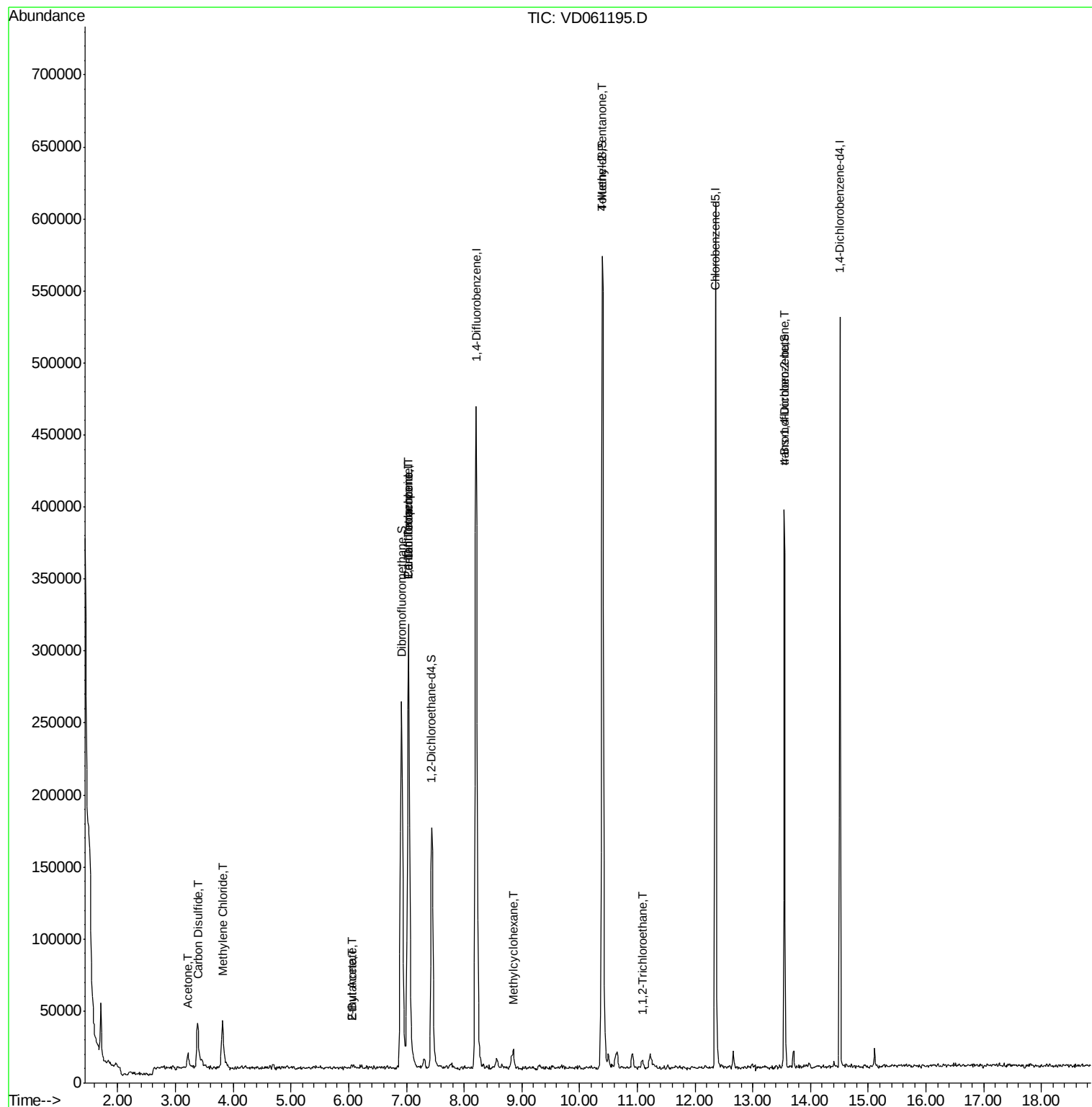
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.22  | 43   | 17519    | 22.563 | ug/l   | 93     |
| 17) Carbon Disulfide           | 3.38  | 76   | 63259    | 5.727  | ug/l   | 96     |
| 20) Methylene Chloride         | 3.82  | 84   | 25975    | 2.948  | ug/l # | 90     |
| 25) 2-Butanone                 | 6.05  | 43   | 3933     | 4.464  | ug/l # | 55     |
| 36) 1,1-Dichloropropene        | 7.03  | 75   | 23448    | 4.770  | ug/l # | 47     |
| 37) Ethyl Acetate              | 6.05  | 43   | 3933     | 1.705  | ug/l # | 66     |
| 38) Carbon Tetrachloride       | 7.03  | 117  | 30757    | 5.680  | ug/l # | 15     |
| 39) Methylcyclohexane          | 8.86  | 83   | 7405     | 1.453  | ug/l   | 95     |
| 51) 4-Methyl-2-Pentanone       | 10.39 | 43   | 2077     | 1.061  | ug/l # | 1      |
| 55) 1,1,2-Trichloroethane      | 11.09 | 97   | 3074     | 1.209  | ug/l # | 15     |
| 81) trans-1,4-Dichloro-2-buten | 13.54 | 75   | 49930    | 99.313 | ug/l # | 17     |

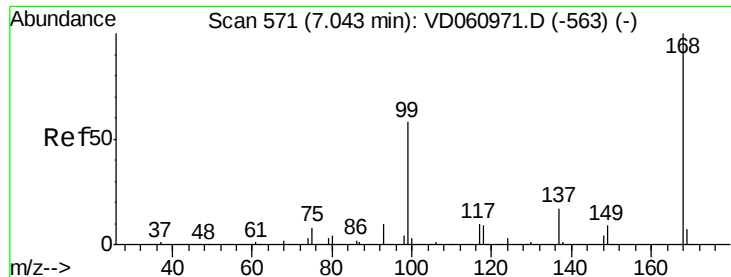
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD031919\  
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Operator : VA/AP  
Sample : K1935-09RE  
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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-2(14-15)RE

Quant Time: Mar 20 01:56:31 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: 7.03 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD061195.D

Acq: 19 Mar 2019 19:53

Instrument :

MSVOA\_D

ClientSampleId :

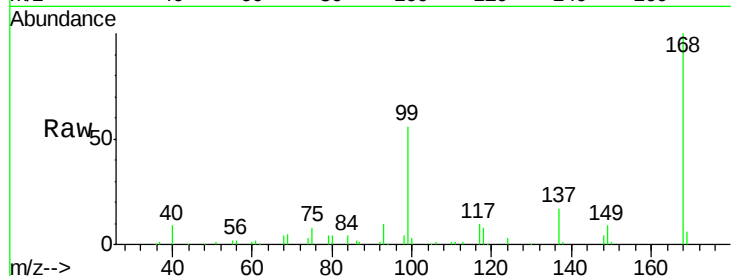
SB-2(14-15)RE

Tot Ion:168 Resp: 326203

Ion Ratio Lower Upper

168 100

99 56.0 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

120000

100000

80000

60000

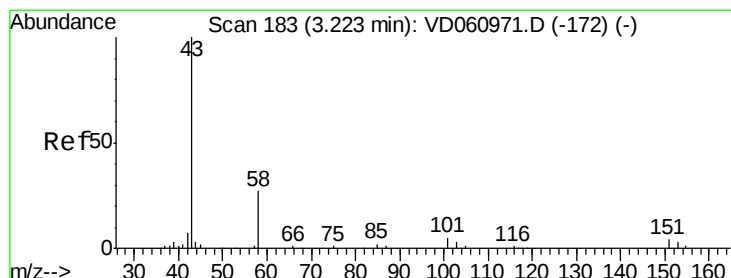
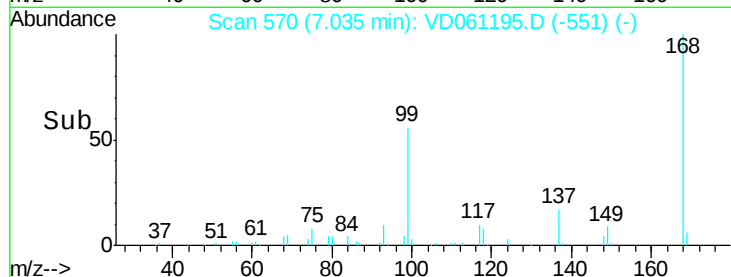
40000

20000

0

Time-->

6.90 7.00 7.10 7.20



#16

Acetone

Concen: 22.563 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD061195.D

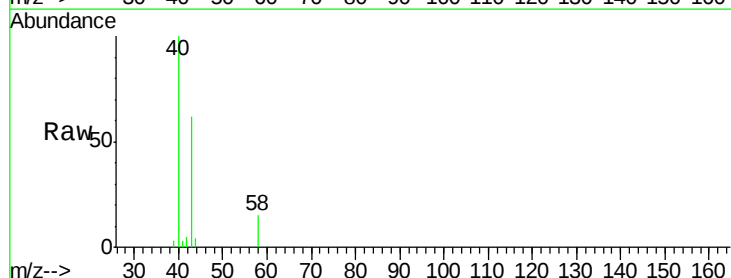
Acq: 19 Mar 2019 19:53

Tgt Ion: 43 Resp: 17519

Ion Ratio Lower Upper

43 100

58 23.4 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.22

8000

6000

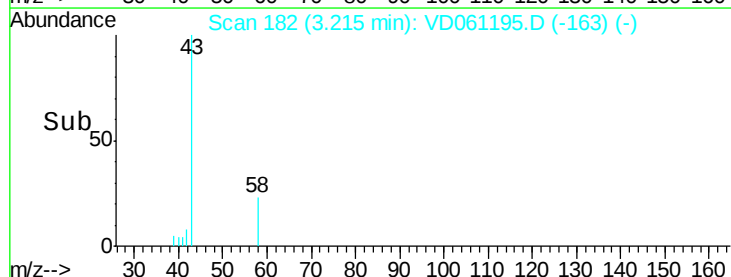
4000

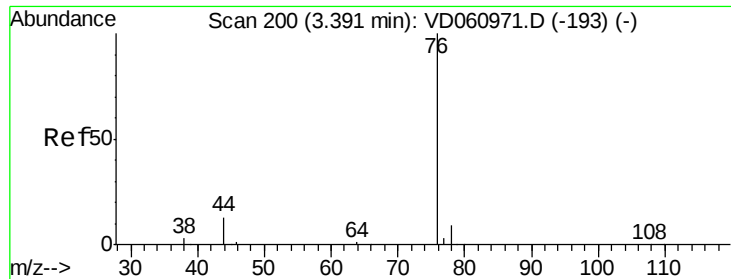
2000

0

Time-->

3.10 3.20 3.30





#17

Carbon Disulfide

Concen: 5.727 ug/l

RT: 3.38 min Scan# 199

Delta R.T. -0.01 min

Lab File: VD061195.D

Acq: 19 Mar 2019 19:53

Instrument :

MSVOA\_D

ClientSampleId :

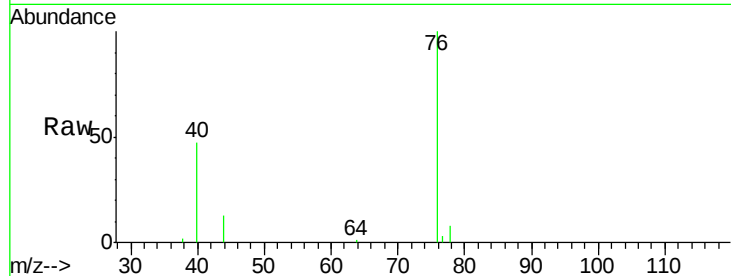
SB-2(14-15)RE

Tot Ion: 76 Resp: 63259

Ion Ratio Lower Upper

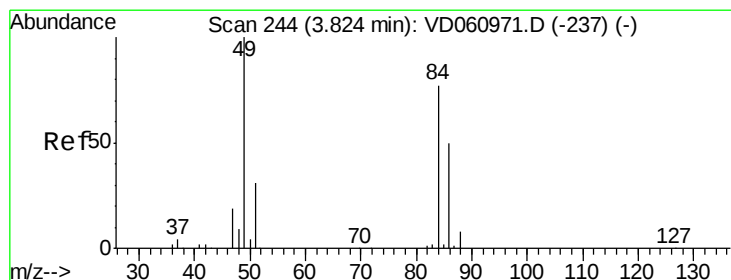
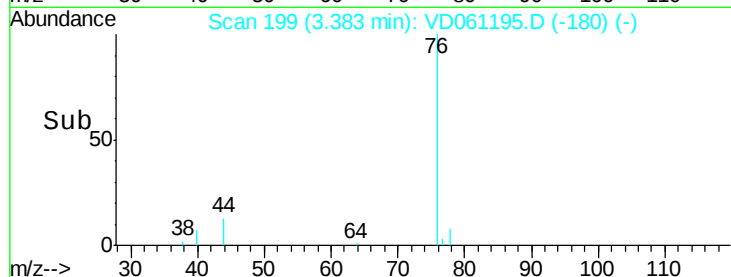
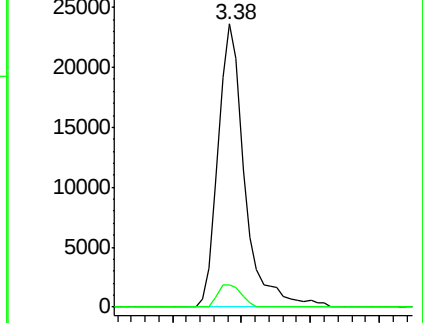
76 100

78 8.0 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#20

Methylene Chloride

Concen: 2.948 ug/l

RT: 3.82 min Scan# 243

Delta R.T. -0.01 min

Lab File: VD061195.D

Acq: 19 Mar 2019 19:53

Tgt Ion: 84 Resp: 25975

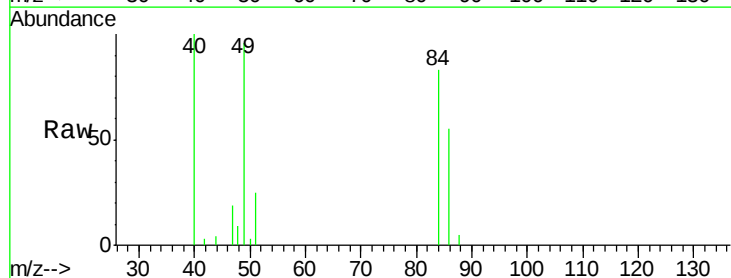
Ion Ratio Lower Upper

84 100

49 116.3 104.2 156.2

51 30.7 32.3 48.5#

86 66.4 52.3 78.5

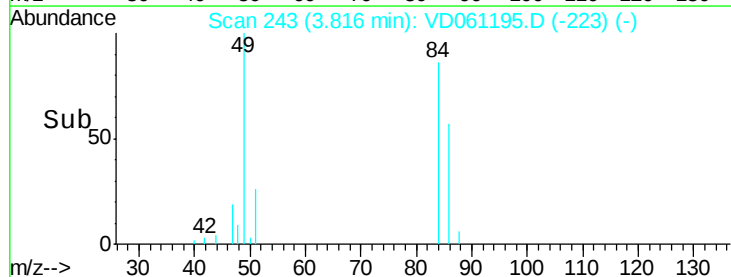
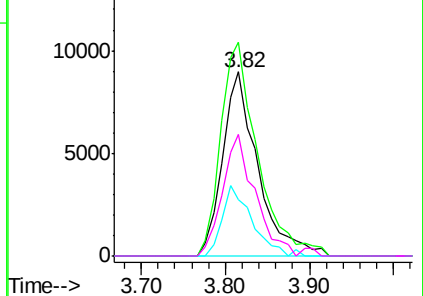


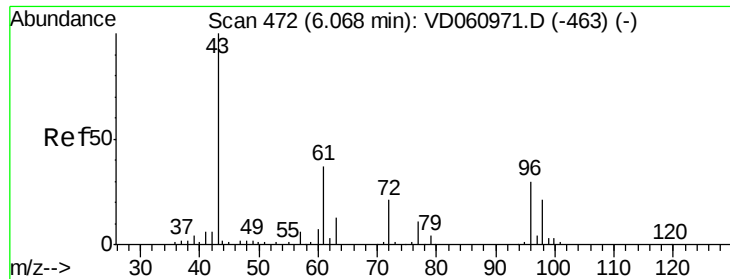
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#25

2-Butanone

Concen: 4.464 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.02 min

Lab File: VD061195.D

Acq: 19 Mar 2019 19:53

Instrument :

MSVOA\_D

ClientSampleId :

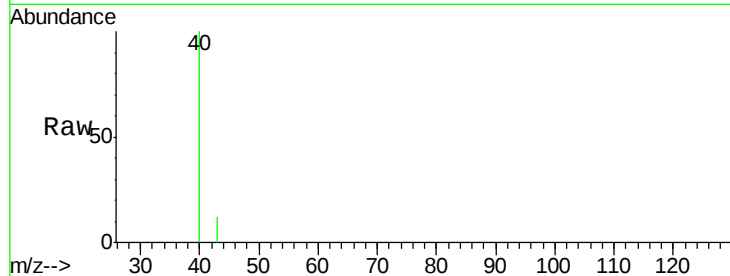
SB-2(14-15)RE

Tot Ion: 43 Resp: 3933

Ion Ratio Lower Upper

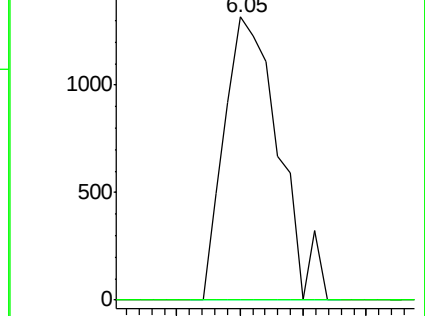
43 100

72 0.0 16.7 25.1#

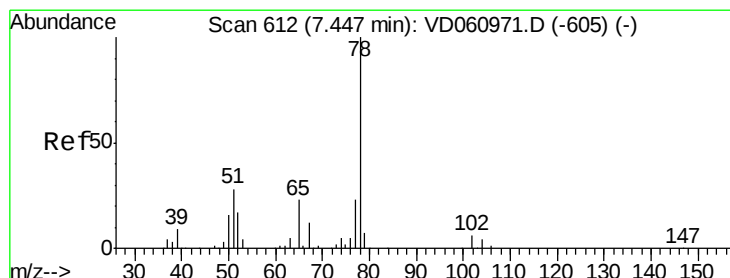
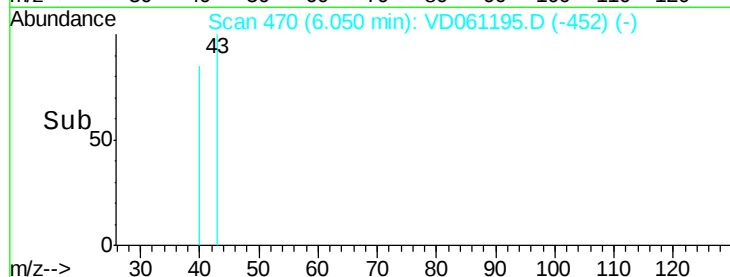


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD061195.D

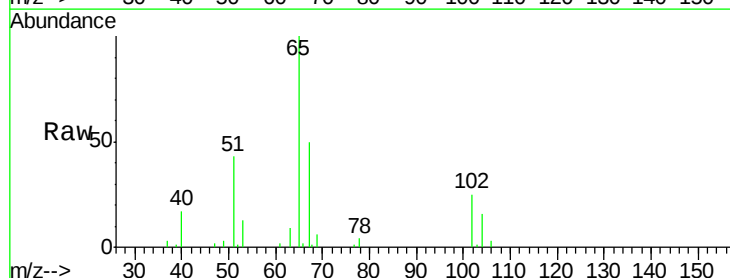
Acq: 19 Mar 2019 19:53

Tgt Ion: 65 Resp: 167162

Ion Ratio Lower Upper

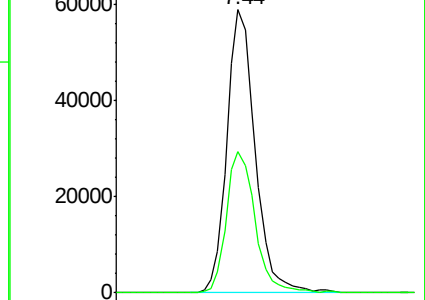
65 100

67 49.8 0.0 105.2

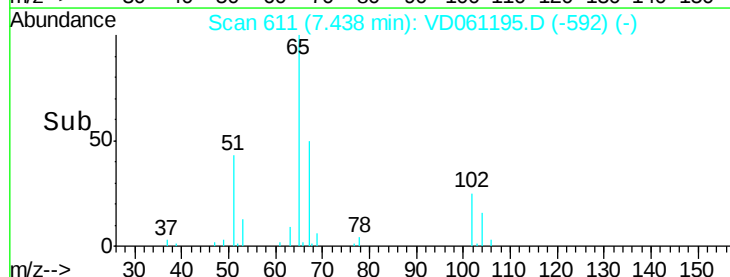


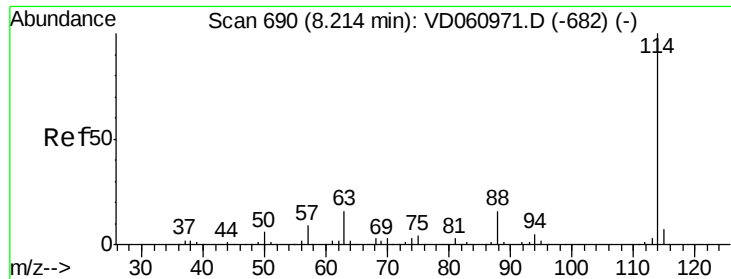
Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



Time-->

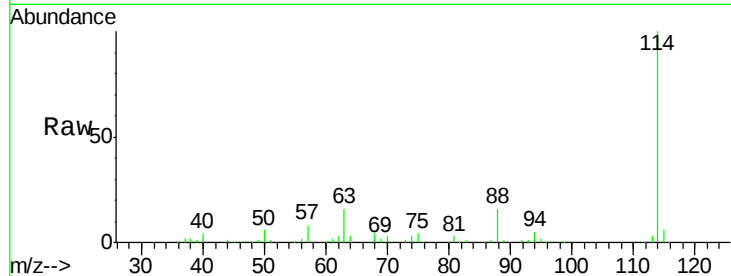




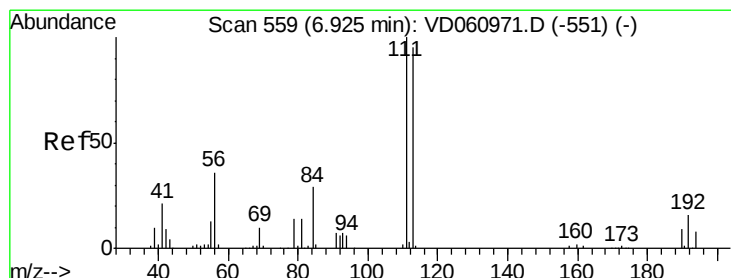
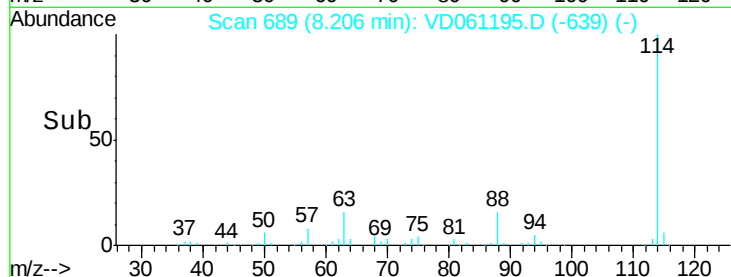
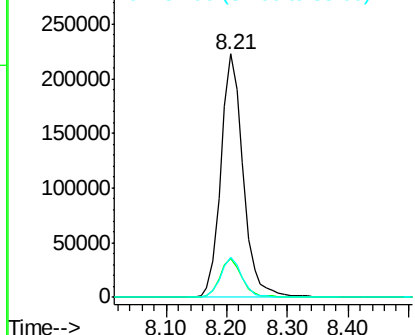
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.21 min Scan# 689  
Delta R.T. -0.01 min  
Lab File: VD061195.D  
Acq: 19 Mar 2019 19:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-2(14-15)RE

Tot Ion:114 Resp: 570255  
Ion Ratio Lower Upper  
114 100  
63 15.7 0.0 31.4  
88 16.5 0.0 33.0

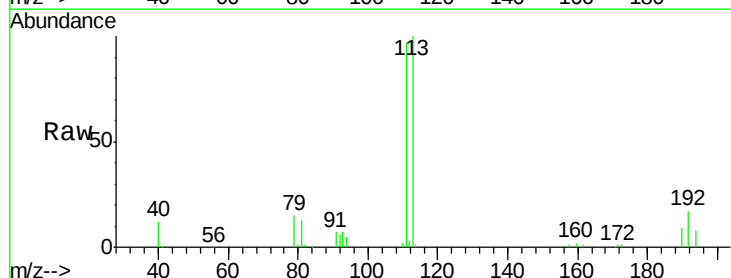


Abundance Ion 114.00 (113.70 to 114.70): V  
Ion 62.95 (62.65 to 63.65): V  
Ion 87.90 (87.60 to 88.60): V

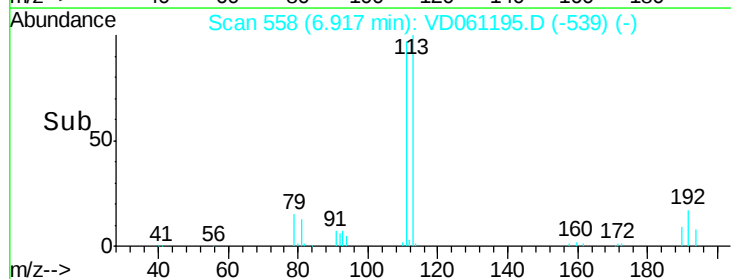
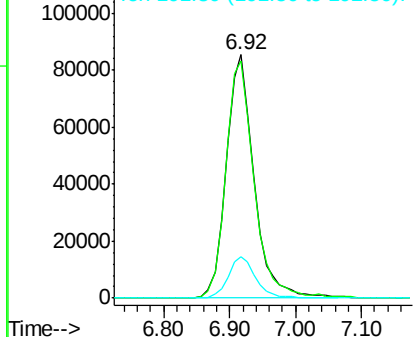


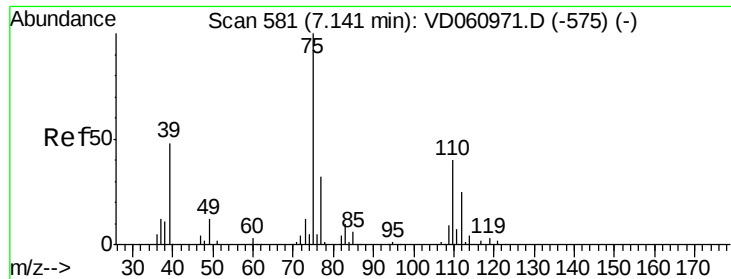
#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 6.92 min Scan# 558  
Delta R.T. -0.01 min  
Lab File: VD061195.D  
Acq: 19 Mar 2019 19:53

Tgt Ion:113 Resp: 252128  
Ion Ratio Lower Upper  
113 100  
111 97.2 84.2 126.4  
192 16.8 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

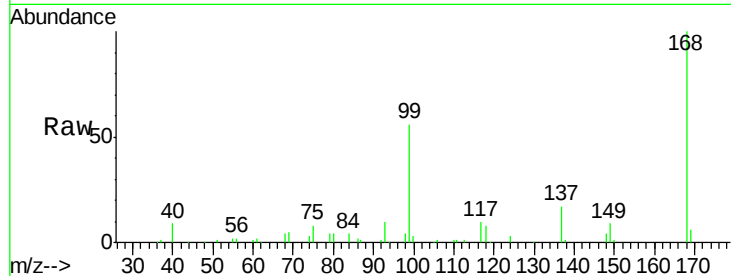




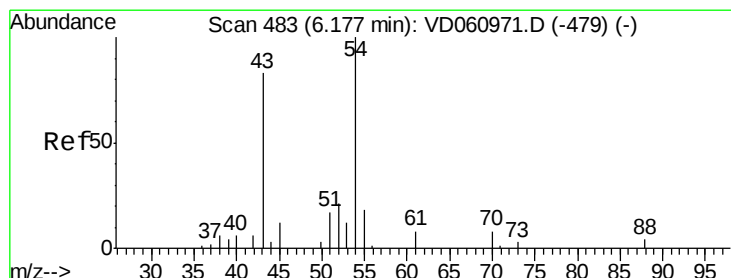
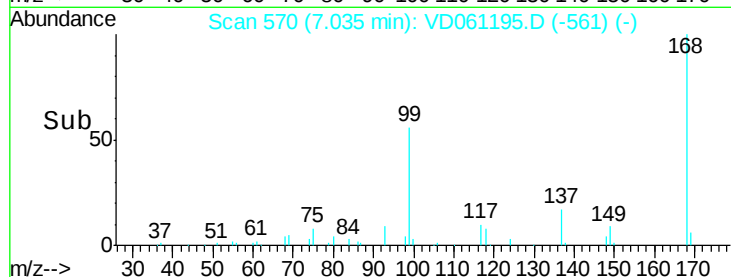
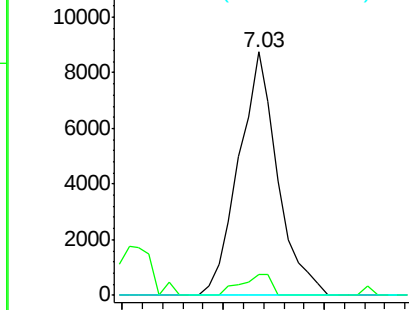
#36  
 1,1-Dichloropropene  
 Concen: 4.770 ug/l  
 RT: 7.03 min Scan# 570  
 Delta R.T. -0.11 min  
 Lab File: VD061195.D  
 Acq: 19 Mar 2019 19:53

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-2(14-15)RE

Tot Ion: 75 Resp: 23448  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 19.7 59.1#  
 77 0.0 24.7 37.1#

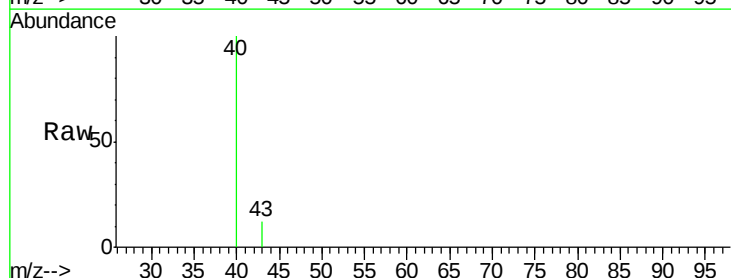


Abundance Ion 75.00 (74.70 to 75.70): VDC  
 Ion 109.90 (109.60 to 110.60): VDC  
 Ion 76.95 (76.65 to 77.65): VDC

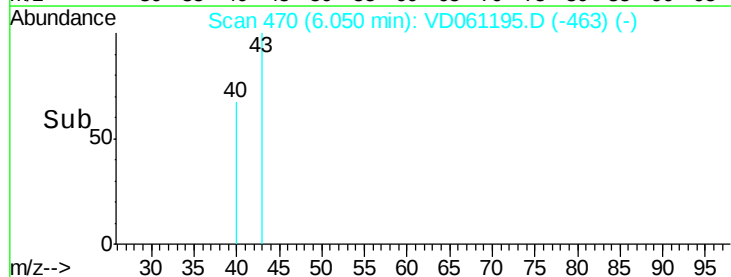
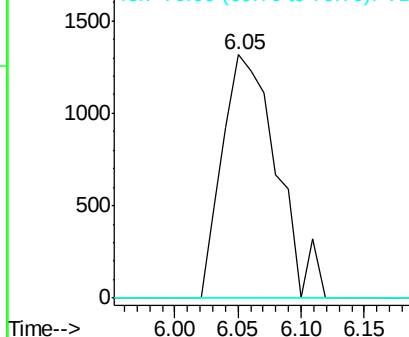


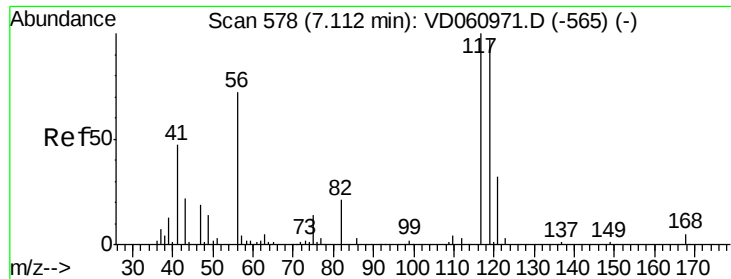
#37  
 Ethyl Acetate  
 Concen: 1.705 ug/l  
 RT: 6.05 min Scan# 470  
 Delta R.T. -0.13 min  
 Lab File: VD061195.D  
 Acq: 19 Mar 2019 19:53

Tgt Ion: 43 Resp: 3933  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 13.7 20.5#  
 70 0.0 7.1 10.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
 Ion 60.95 (60.65 to 61.65): VDC  
 Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.680 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.08 min

Lab File: VD061195.D

Acq: 19 Mar 2019 19:53

Instrument :

MSVOA\_D

ClientSampleId :

SB-2(14-15)RE

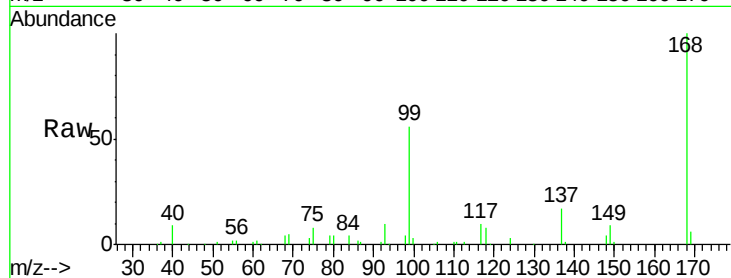
Tot Ion:117 Resp: 30757

Ion Ratio Lower Upper

117 100

119 4.7 77.8 116.8#

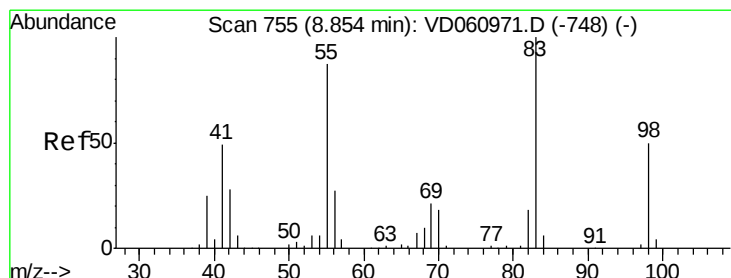
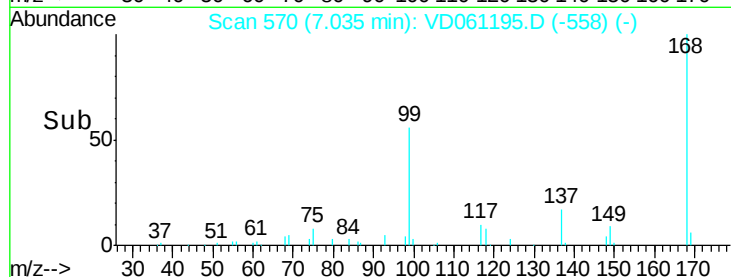
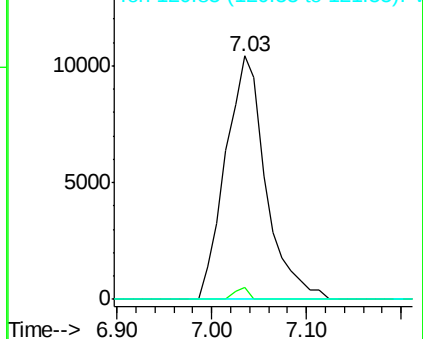
121 0.0 25.3 37.9#



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



#39

Methylcyclohexane

Concen: 1.453 ug/l

RT: 8.86 min Scan# 755

Delta R.T. 0.00 min

Lab File: VD061195.D

Acq: 19 Mar 2019 19:53

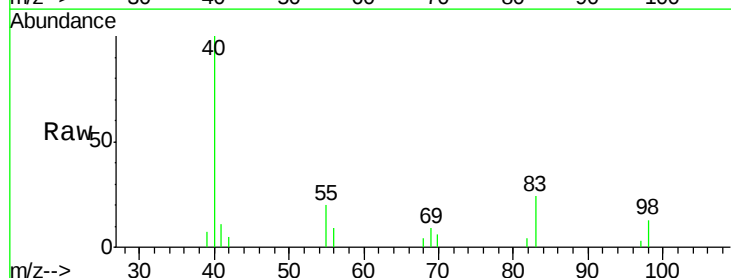
Tgt Ion: 83 Resp: 7405

Ion Ratio Lower Upper

83 100

55 82.0 69.6 104.4

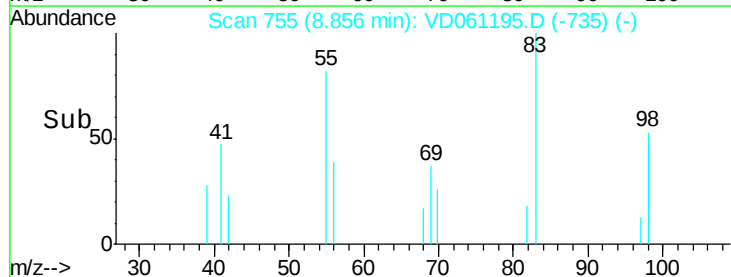
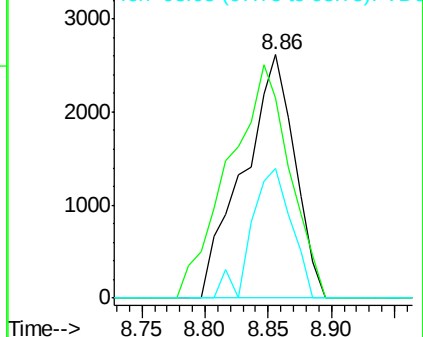
98 53.5 40.0 60.0

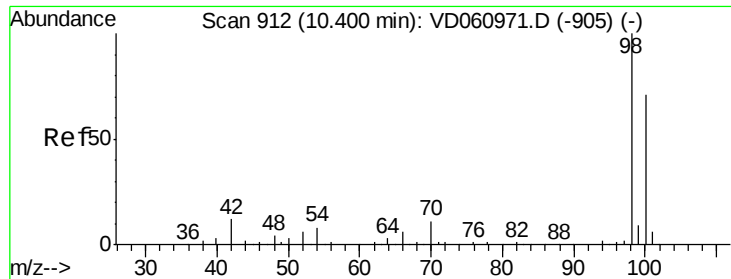


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC

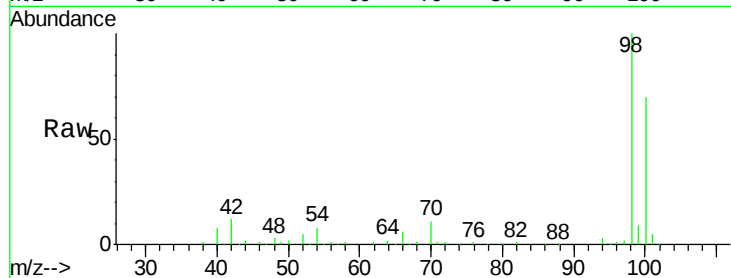




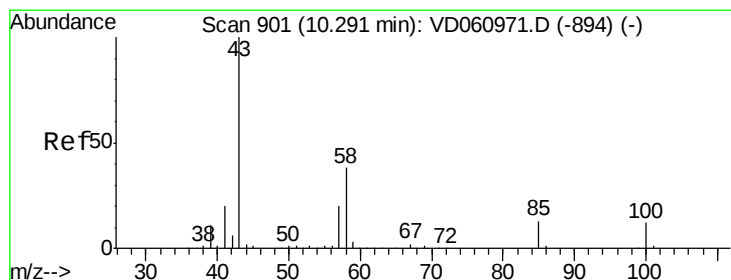
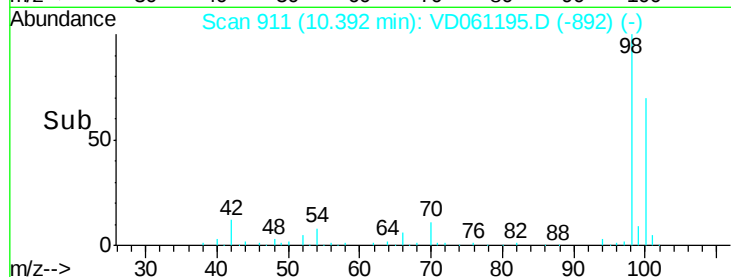
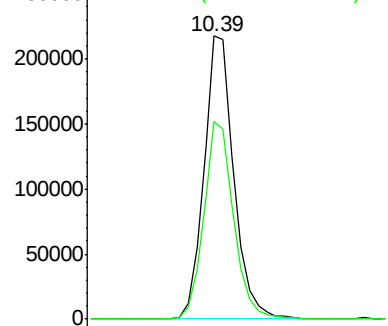
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.39 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: VD061195.D  
Acq: 19 Mar 2019 19:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-2(14-15)RE

Tot Ion: 98 Resp: 508898  
Ion Ratio Lower Upper  
98 100  
100 69.6 57.4 86.2

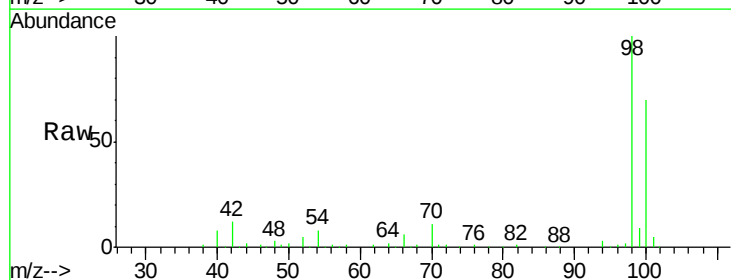


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

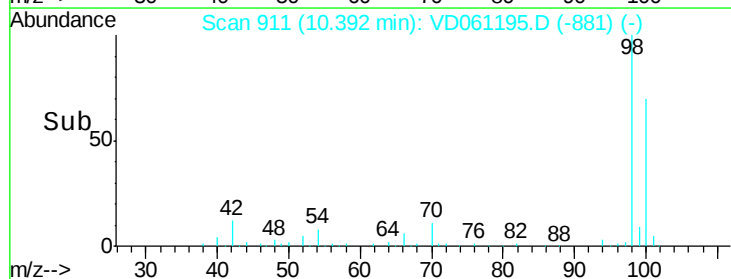
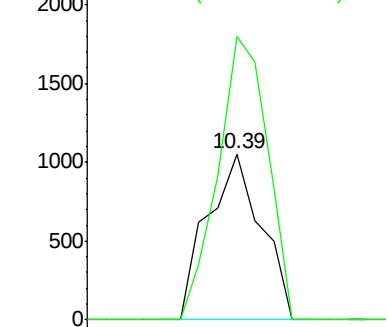


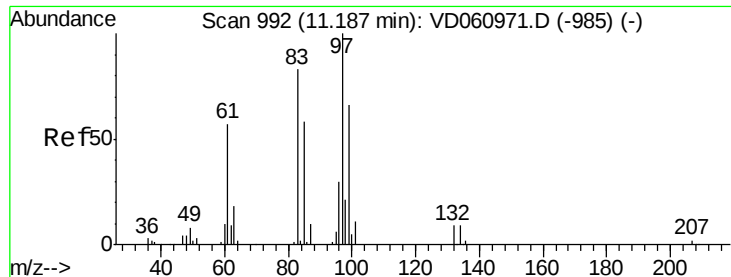
#51  
4-Methyl-2-Pentanone  
Concen: 1.061 ug/l  
RT: 10.39 min Scan# 911  
Delta R.T. 0.10 min  
Lab File: VD061195.D  
Acq: 19 Mar 2019 19:53

Tgt Ion: 43 Resp: 2077  
Ion Ratio Lower Upper  
43 100  
58 170.3 30.2 45.2#



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





#55

1,1,2-Trichloroethane

Concen: 1.209 ug/l

RT: 11.09 min Scan# 982

Delta R.T. -0.10 min

Lab File: VD061195.D

Acq: 19 Mar 2019 19:53

Instrument :

MSVOA\_D

ClientSampleId :

SB-2(14-15)RE

Tot Ion: 97 Resp: 3074

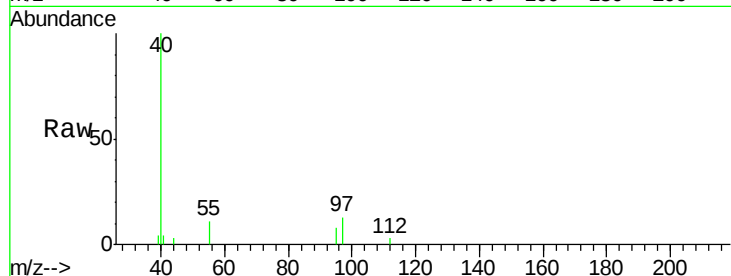
Ion Ratio Lower Upper

97 100

83 0.0 66.6 100.0#

85 0.0 46.4 69.6#

99 0.0 52.4 78.6#

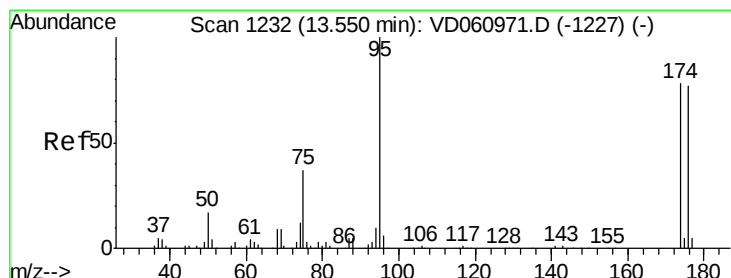
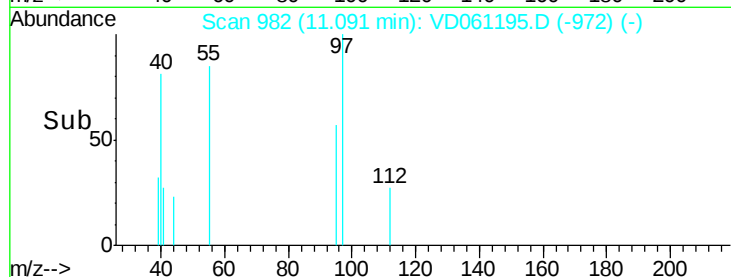
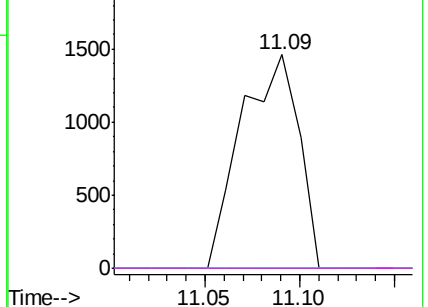


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD061195.D

Acq: 19 Mar 2019 19:53

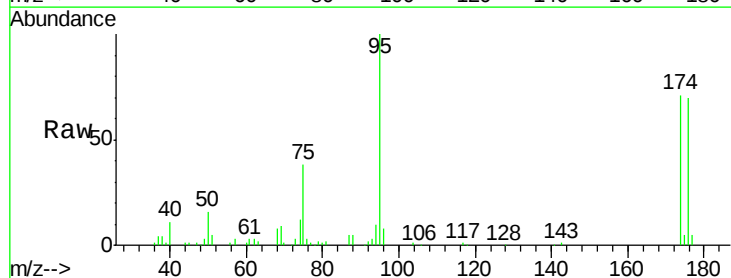
Tgt Ion: 95 Resp: 132949

Ion Ratio Lower Upper

95 100

174 70.8 0.0 155.6

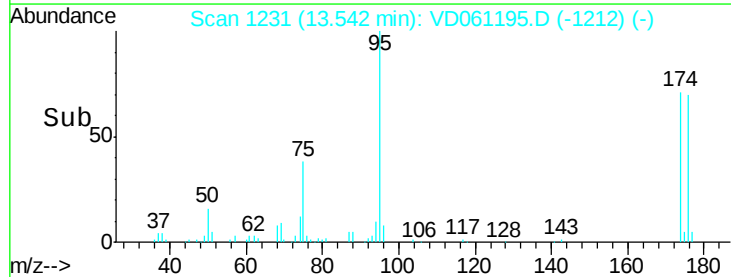
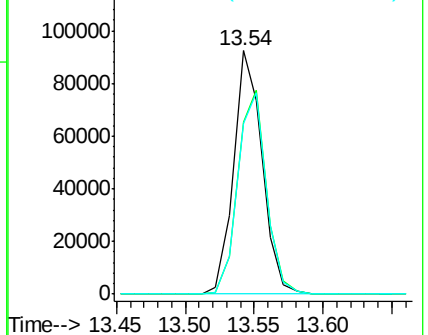
176 70.3 0.0 153.8

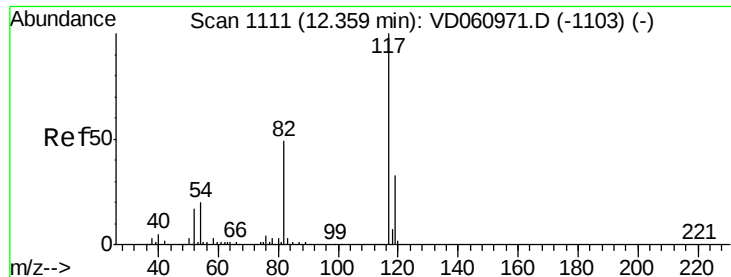


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

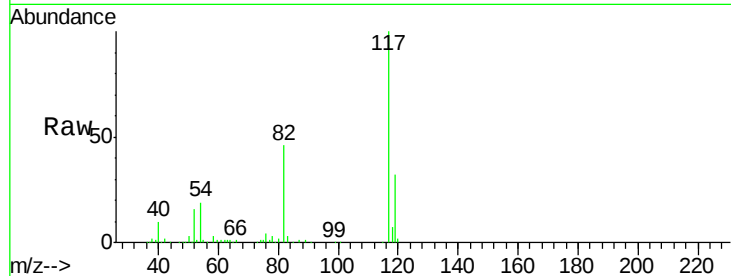




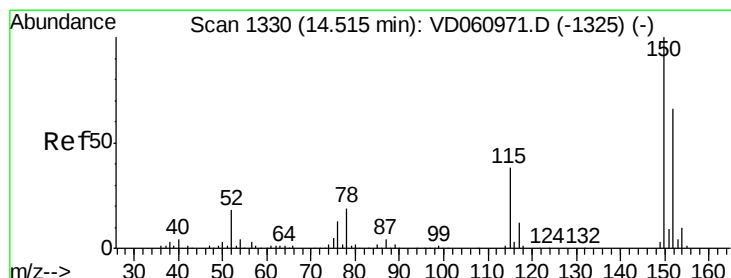
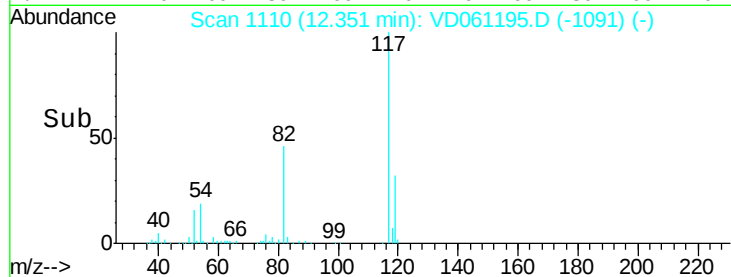
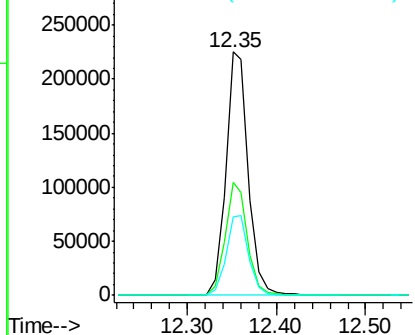
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.35 min Scan# 1110  
Delta R.T. -0.01 min  
Lab File: VD061195.D  
Acq: 19 Mar 2019 19:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-2(14-15)RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 46.4  | 38.9  | 58.3  |
| 119     | 32.5  | 26.6  | 39.8  |

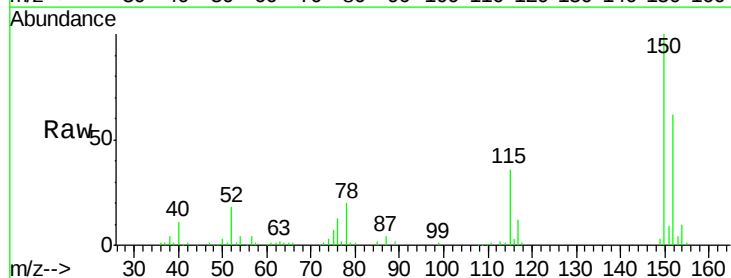


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

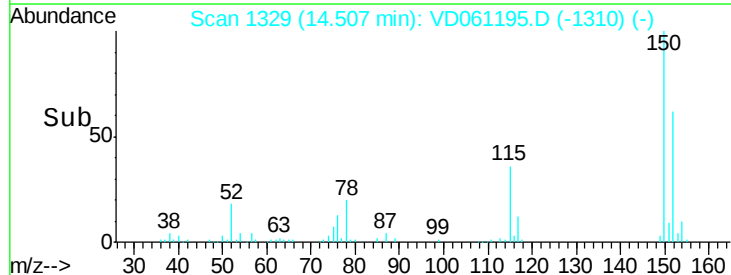
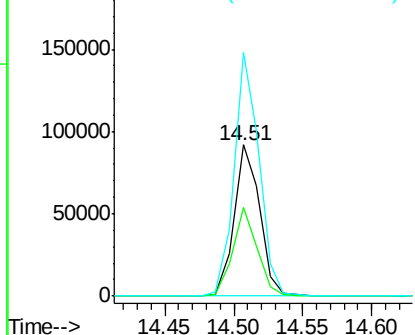


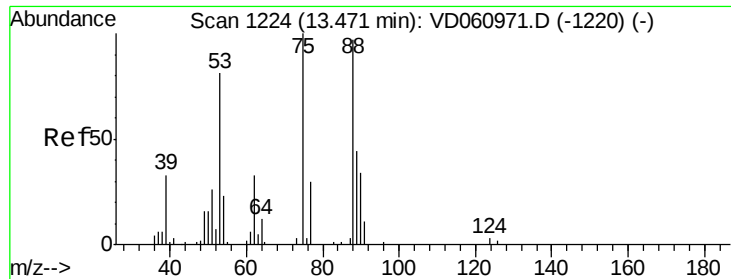
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1329  
Delta R.T. -0.01 min  
Lab File: VD061195.D  
Acq: 19 Mar 2019 19:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.7  | 28.6  | 85.9  |
| 150     | 161.1 | 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





#81

trans-1,4-Dichloro-2-butene

Concen: 99.313 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD061195.D

Acq: 19 Mar 2019 19:53

Instrument :

MSVOA\_D

ClientSampleId :

SB-2(14-15)RE

Tot Ion: 75 Resp: 49930

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#

