

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070819\  
 Data File : VD063039.D  
 Acq On : 8 Jul 2019 16:31  
 Operator : VA/AP  
 Sample : K3687-01  
 Misc : 6.14g/5ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-12017-VNJ-206

Quant Time: Jul 09 05:11:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.03  | 168  | 17619    | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 22791    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 18836    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 10533    | 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   | 10588    | 55.29 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 110.58% |          |
| 35) Dibromofluoromethane    | 6.91  | 113  | 7747     | 40.31 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 80.62%  |          |
| 50) Toluene-d8              | 10.41 | 98   | 20194    | 48.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.56%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 8794     | 46.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.48%  |          |

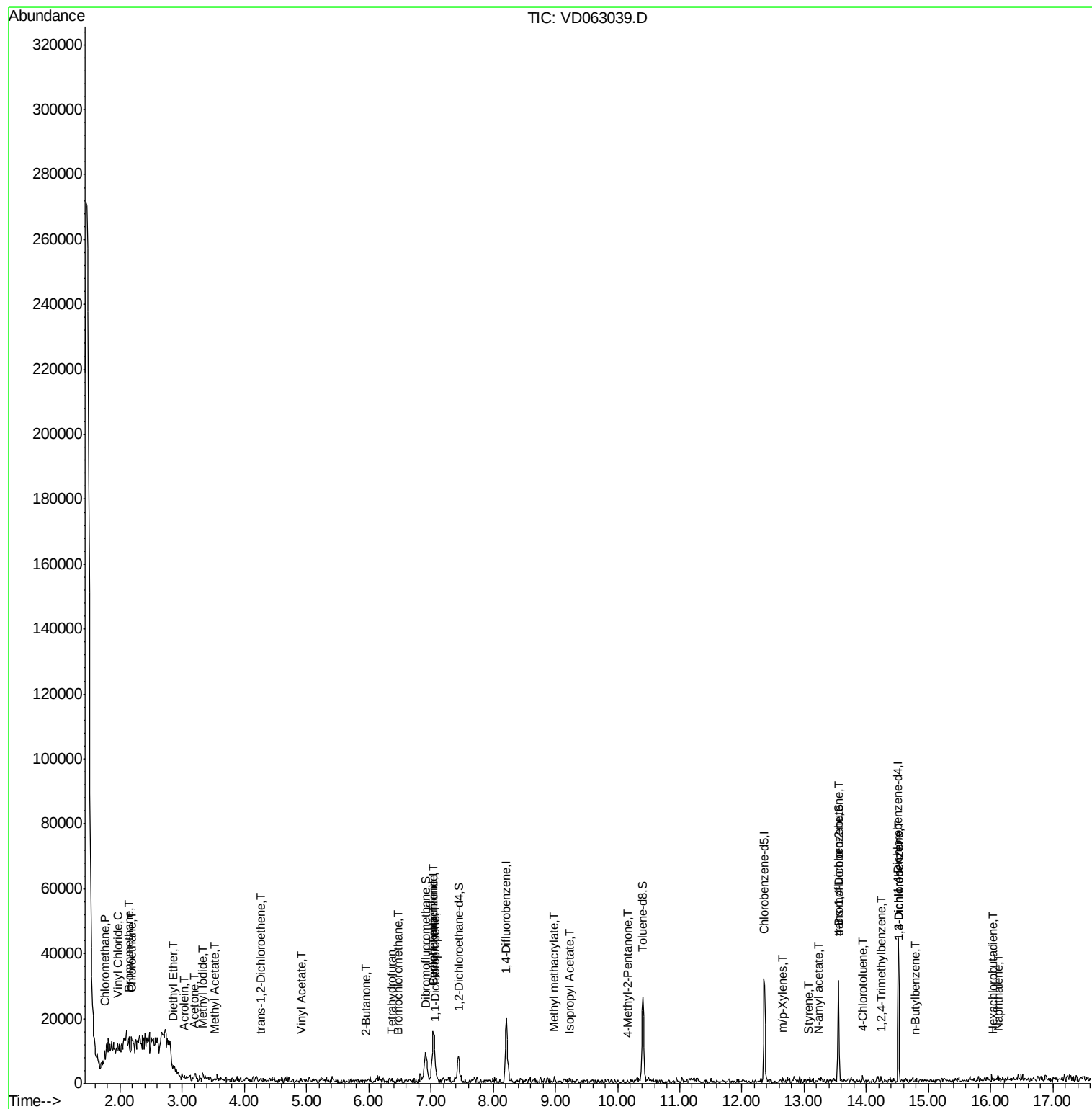
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 3) Chloromethane               | 1.75  | 50   | 424      | 2.473   | ug/l # | 45     |
| 4) Vinyl Chloride              | 1.96  | 62   | 467      | 2.747   | ug/l # | 43     |
| 5) Bromomethane                | 2.14  | 94   | 3000     | 37.680  | ug/l # | 13     |
| 6) Chloroethane                | 2.20  | 64   | 261      | 3.391   | ug/l # | 1      |
| 8) Diethyl Ether               | 2.87  | 74   | 207      | 4.735   | ug/l # | 1      |
| 10) Methyl Iodide              | 3.33  | 142  | 1584     | 6.441   | ug/l # | 87     |
| 13) Acrolein                   | 3.04  | 56   | 184      | 20.663  | ug/l # | 15     |
| 16) Acetone                    | 3.21  | 43   | 2292     | 53.517  | ug/l # | 64     |
| 18) Methyl Acetate             | 3.52  | 43   | 181      | 3.131   | ug/l # | 58     |
| 21) trans-1,2-Dichloroethene   | 4.26  | 96   | 188      | 1.263   | ug/l # | 1      |
| 23) Vinyl Acetate              | 4.91  | 43   | 487      | 1.852   | ug/l # | 82     |
| 25) 2-Butanone                 | 5.95  | 43   | 225      | 6.282   | ug/l # | 64     |
| 28) Bromochloromethane         | 6.49  | 49   | 207      | 2.148   | ug/l # | 4      |
| 29) Tetrahydrofuran            | 6.36  | 42   | 267      | 15.755  | ug/l # | 33     |
| 31) Cyclohexane                | 7.02  | 56   | 209      | 1.162   | ug/l # | 13     |
| 36) 1,1-Dichloropropene        | 7.08  | 75   | 426      | 1.975   | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.03  | 117  | 1489     | 4.589   | ug/l # | 13     |
| 43) Isopropyl Acetate          | 9.23  | 43   | 178      | 1.574   | ug/l # | 48     |
| 48) Methyl methacrylate        | 8.99  | 41   | 203      | 2.526   | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.18 | 43   | 402      | 5.013   | ug/l # | 41     |
| 68) m/p-Xylenes                | 12.65 | 106  | 246      | 1.125   | ug/l # | 1      |
| 70) Styrene                    | 13.07 | 104  | 540      | 1.538   | ug/l # | 25     |
| 74) N-amyl acetate             | 13.24 | 43   | 193      | 1.177   | ug/l # | 51     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 5446     | 170.890 | ug/l # | 2      |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 659      | 1.219   | ug/l # | 26     |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 830      | 1.428   | ug/l # | 33     |
| 87) 1,3-Dichlorobenzene        | 14.53 | 146  | 533      | 1.637   | ug/l # | 26     |
| 88) 1,4-Dichlorobenzene        | 14.53 | 146  | 533      | 1.630   | ug/l # | 24     |
| 89) n-Butylbenzene             | 14.79 | 91   | 982      | 1.669   | ug/l # | 31     |
| 94) Hexachlorobutadiene        | 16.04 | 225  | 289      | 1.738   | ug/l # | 20     |
| 95) Naphthalene                | 16.12 | 128  | 1132     | 3.711   | ug/l # | 70     |

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

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Quant Title : SW846 8260  
QLast Update : Thu Jun 20 01:50:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.02 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

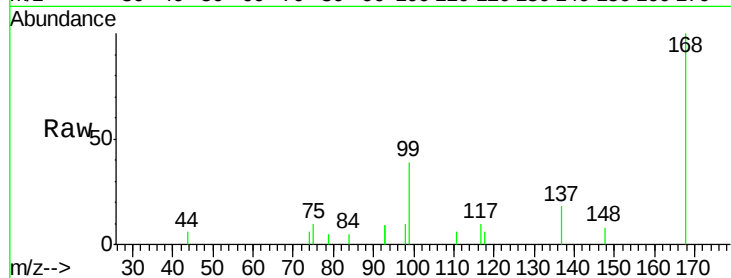
72-12017-VNJ-206

Tot Ion:168 Resp: 17619

Ion Ratio Lower Upper

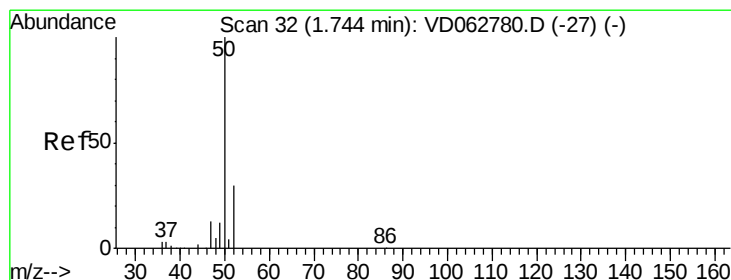
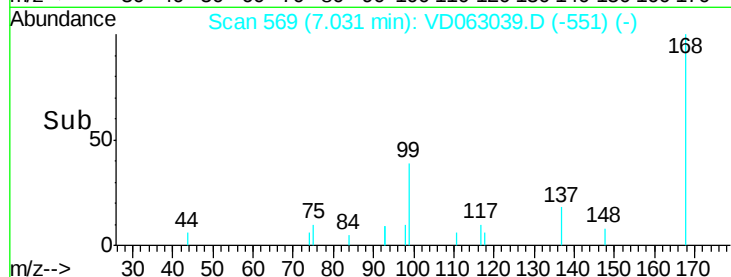
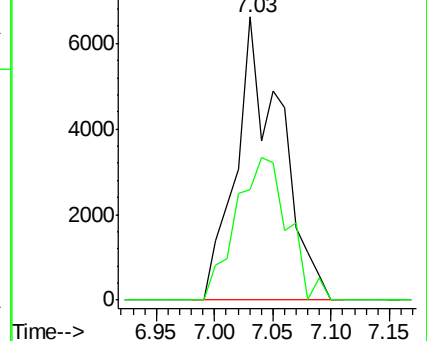
168 100

99 39.3 53.0 79.6#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 2.473 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063039.D

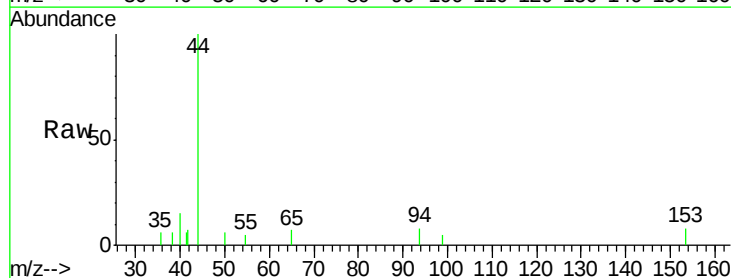
Acq: 8 Jul 2019 16:31

Tgt Ion: 50 Resp: 424

Ion Ratio Lower Upper

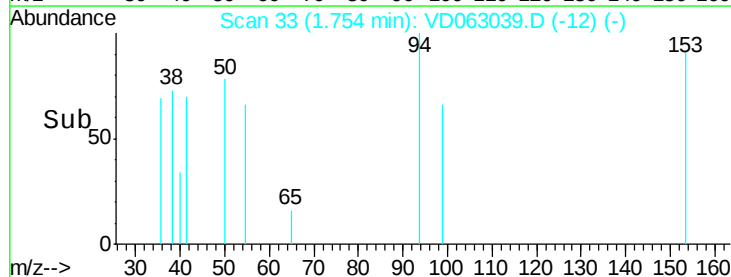
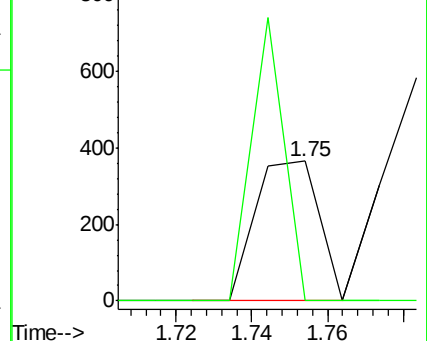
50 100

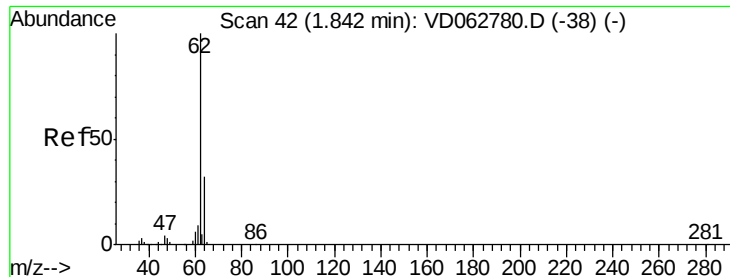
52 0.0 23.6 35.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#4

Vinyl Chloride

Concen: 2.747 ug/l

RT: 1.96 min Scan# 54

Delta R.T. 0.12 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

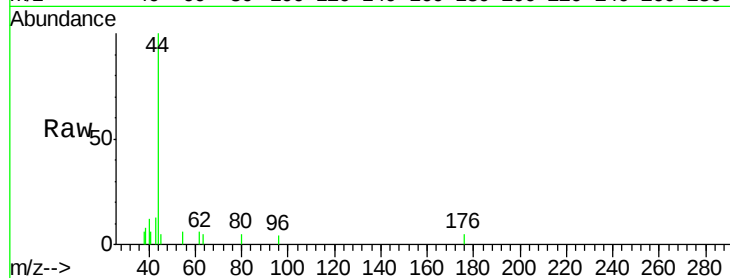
72-12017-VNJ-206

Tot Ion: 62 Resp: 467

Ion Ratio Lower Upper

62 100

64 0.0 25.6 38.4#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.96

400

300

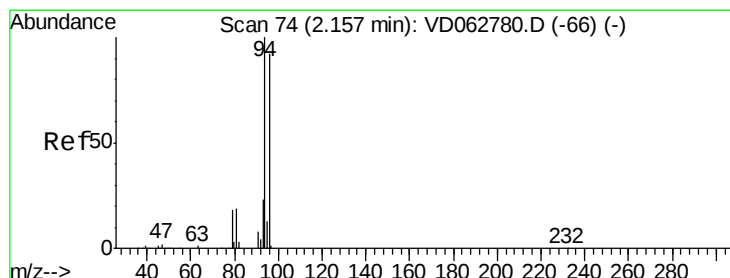
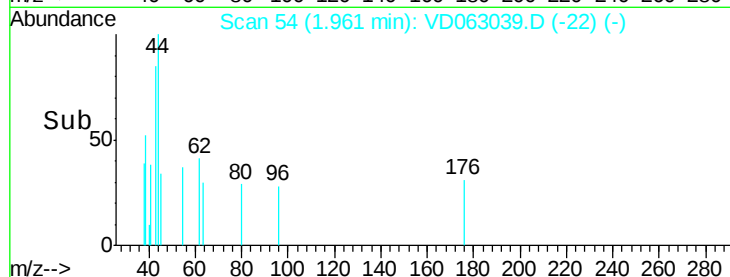
200

100

0

1.92 1.94 1.96 1.98 2.00

Time-->



#5

Bromomethane

Concen: 37.680 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.02 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

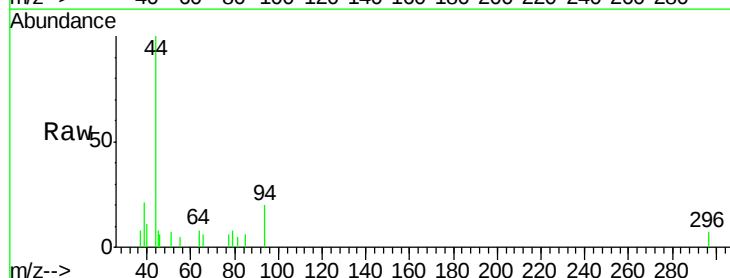
Tgt Ion: 94 Resp: 3000

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.2#

93 0.0 18.2 27.4#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.14

1500

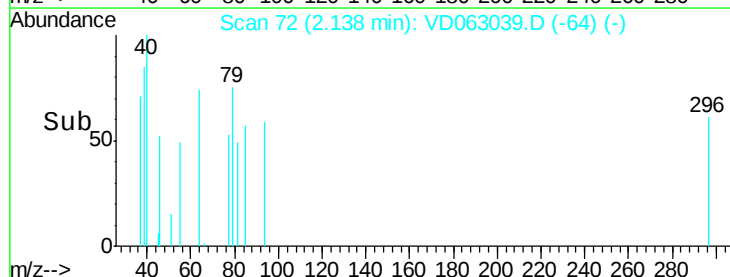
1000

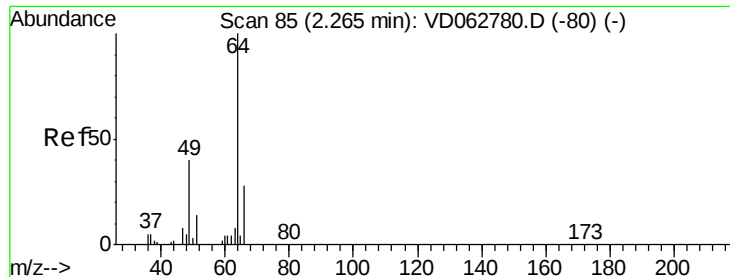
500

0

2.05 2.10 2.15

Time-->





#6

Chloroethane

Concen: 3.391 ug/l

RT: 2.20 min Scan# 78

Delta R.T. -0.07 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

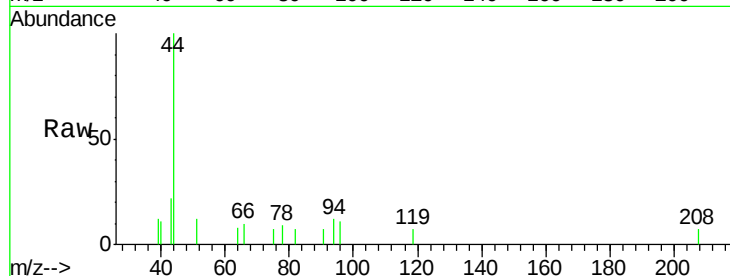
72-12017-VNJ-206

Tot Ion: 64 Resp: 261

Ion Ratio Lower Upper

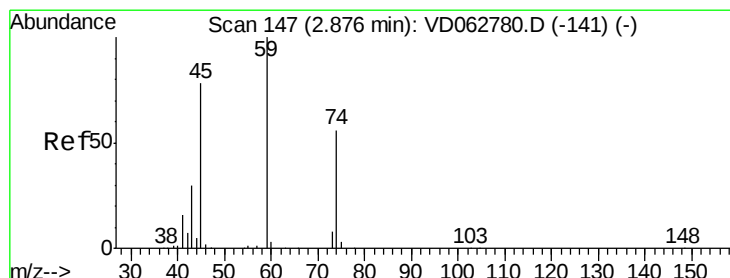
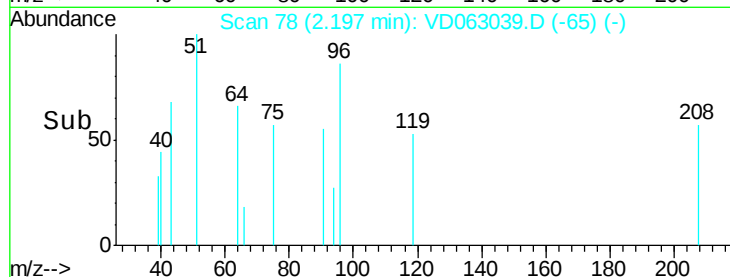
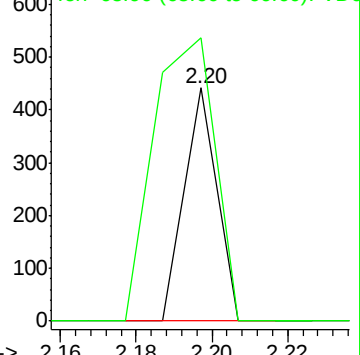
64 100

66 121.5 23.0 34.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Diethyl Ether

Concen: 4.735 ug/l

RT: 2.87 min Scan# 146

Delta R.T. -0.01 min

Lab File: VD063039.D

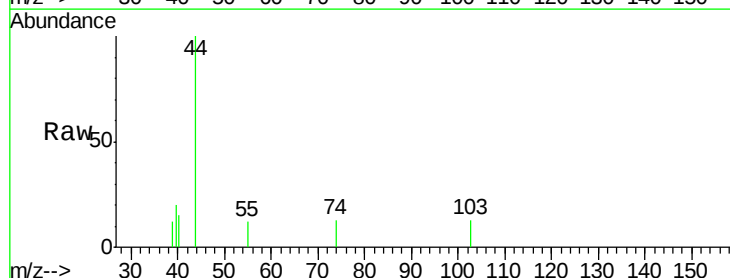
Acq: 8 Jul 2019 16:31

Tgt Ion: 74 Resp: 207

Ion Ratio Lower Upper

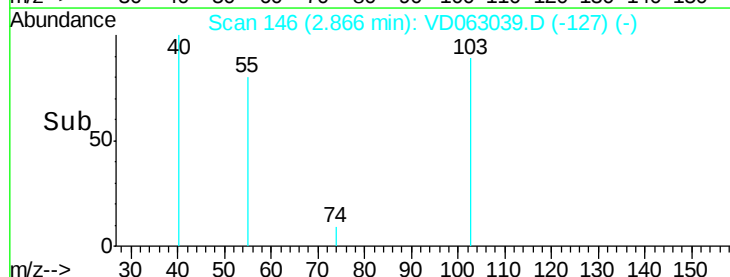
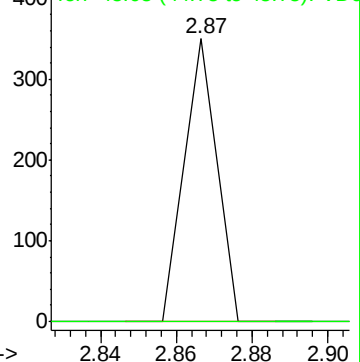
74 100

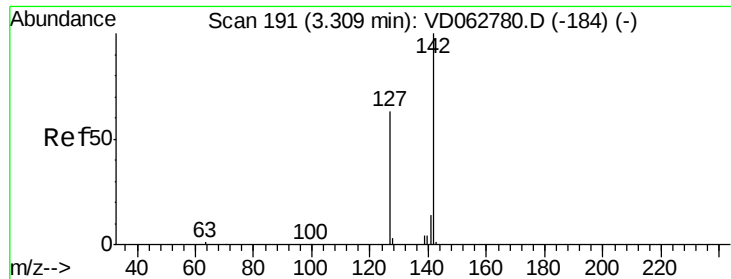
45 0.0 70.2 210.6#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

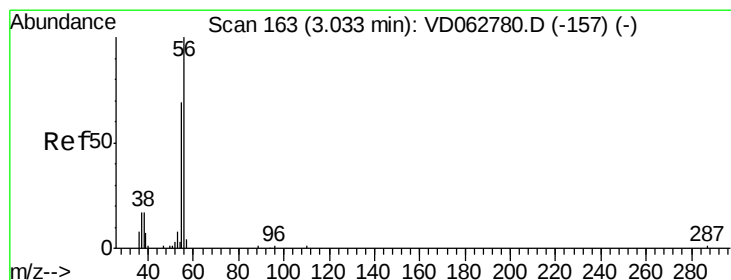
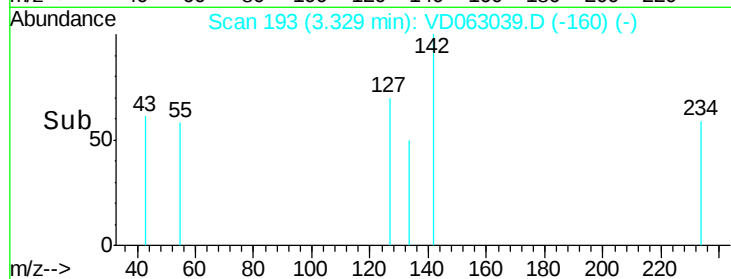
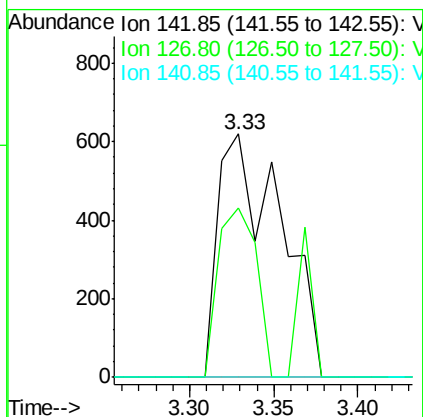
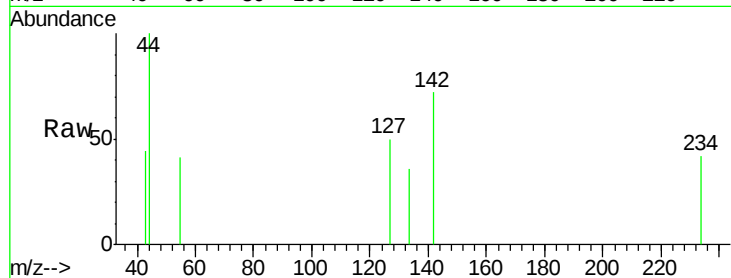




#10  
Methvl Iodide  
Concen: 6.441 ug/l  
RT: 3.33 min Scan# 193  
Delta R.T. 0.02 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

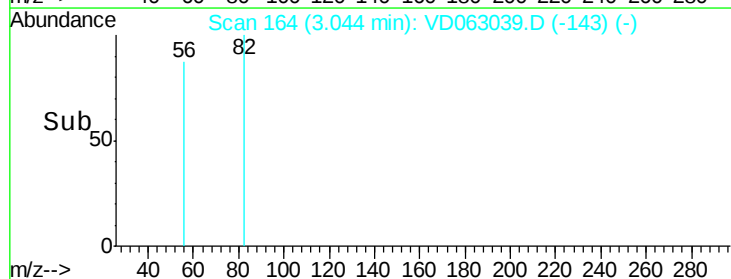
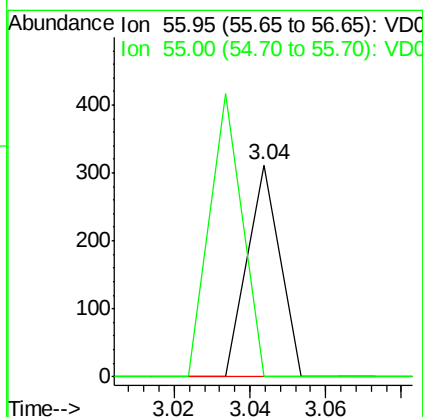
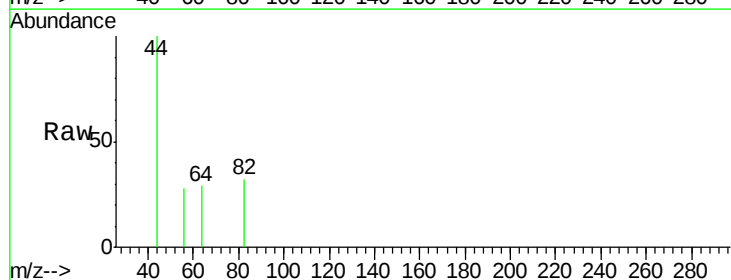
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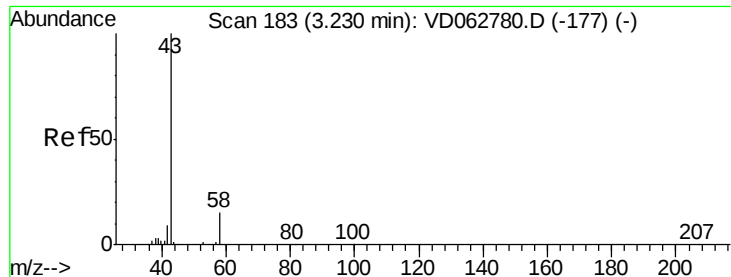
Tot Ion:142 Resp: 1584  
Ion Ratio Lower Upper  
142 100  
127 69.5 50.1 75.1  
141 0.0 11.0 16.4#



#13  
Acrolein  
Concen: 20.663 ug/l  
RT: 3.04 min Scan# 164  
Delta R.T. 0.01 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

Tgt Ion: 56 Resp: 184  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.4 83.0#

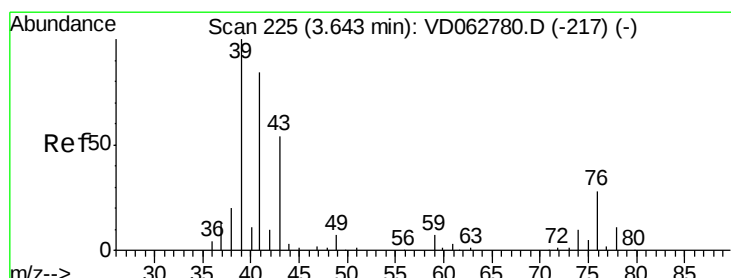
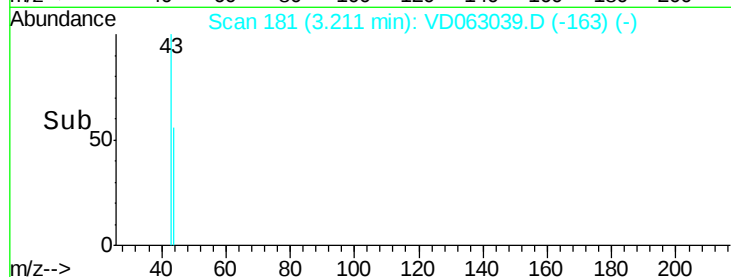
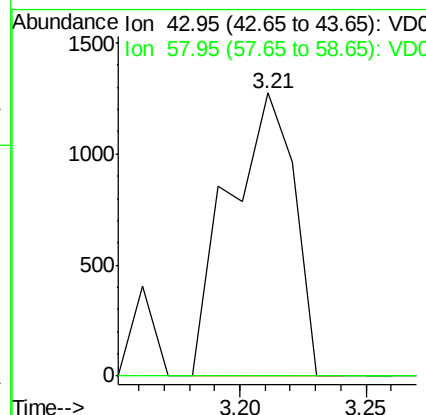
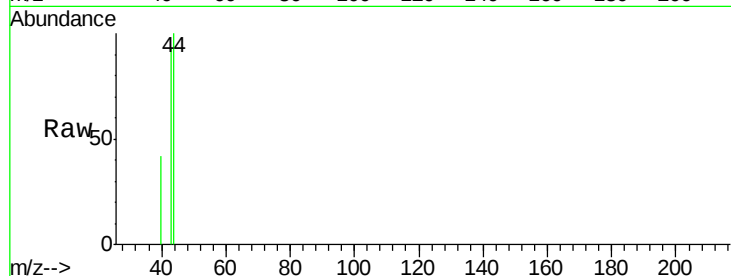




#16  
Acetone  
Concen: 53.517 ug/l  
RT: 3.21 min Scan# 181  
Delta R.T. -0.02 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

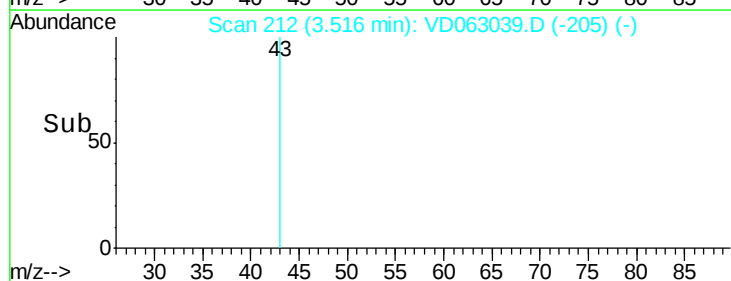
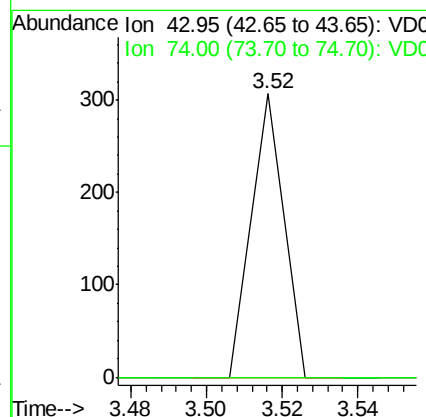
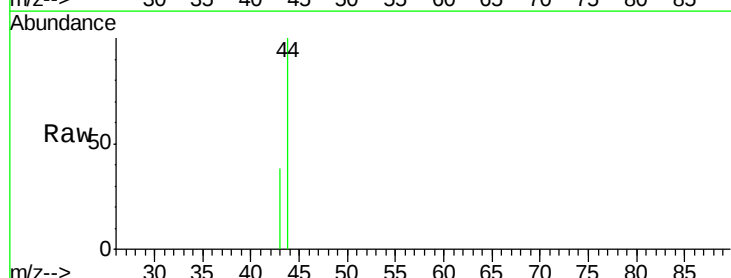
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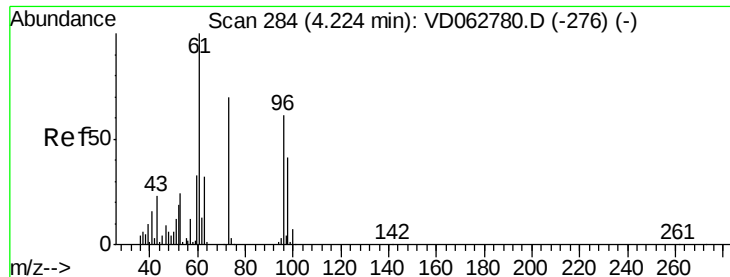
Tot Ion: 43 Resp: 2292  
Ion Ratio Lower Upper  
43 100  
58 0.0 11.9 17.9#



#18  
Methyl Acetate  
Concen: 3.131 ug/l  
RT: 3.52 min Scan# 212  
Delta R.T. -0.13 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

Tgt Ion: 43 Resp: 181  
Ion Ratio Lower Upper  
43 100  
74 0.0 15.2 22.8#





#21

trans-1,2-Dichloroethene

Concen: 1.263 ug/l

RT: 4.26 min Scan# 288

Delta R.T. 0.04 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

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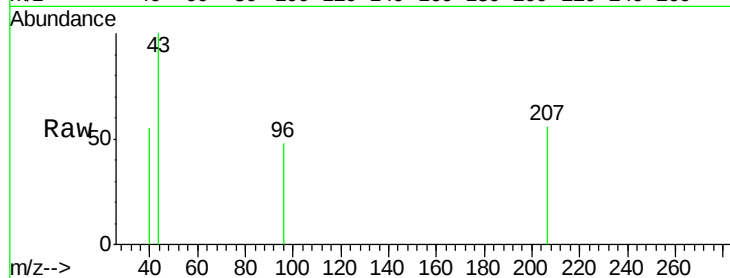
Tot Ion: 96 Resp: 188

Ion Ratio Lower Upper

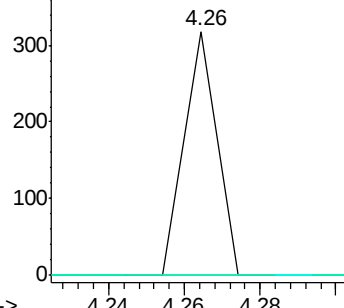
96 100

61 0.0 131.0 196.4#

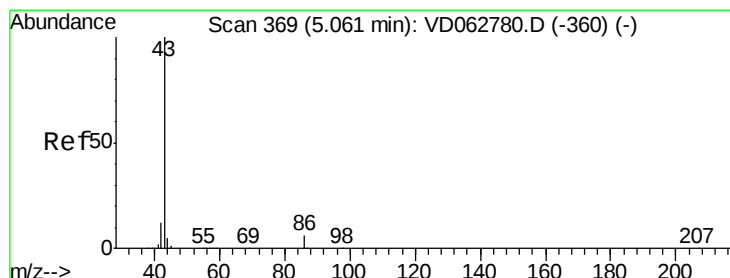
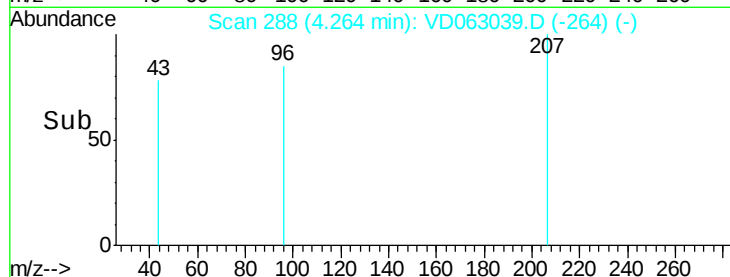
98 0.0 53.2 79.8#



Abundance Ion 95.90 (95.60 to 96.60): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 97.85 (97.55 to 98.55): VDC



Time-->



#23

Vinyl Acetate

Concen: 1.852 ug/l

RT: 4.91 min Scan# 354

Delta R.T. -0.15 min

Lab File: VD063039.D

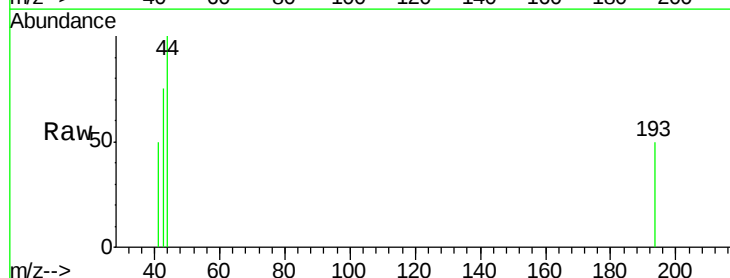
Acq: 8 Jul 2019 16:31

Tgt Ion: 43 Resp: 487

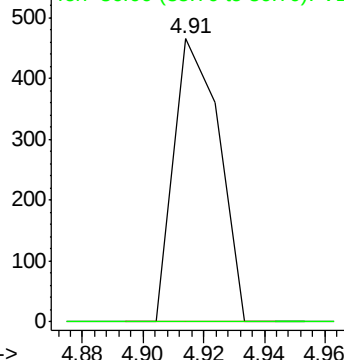
Ion Ratio Lower Upper

43 100

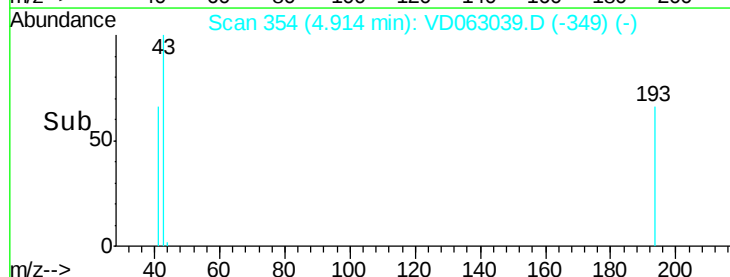
86 0.0 4.7 7.1#

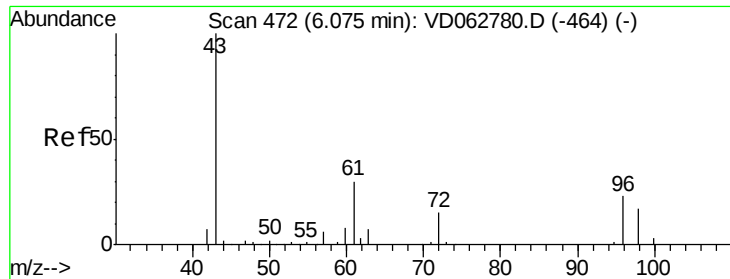


Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 86.00 (85.70 to 86.70): VDC



Time-->





#25

2-Butanone

Concen: 6.282 ug/l

RT: 5.95 min Scan# 459

Delta R.T. -0.13 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

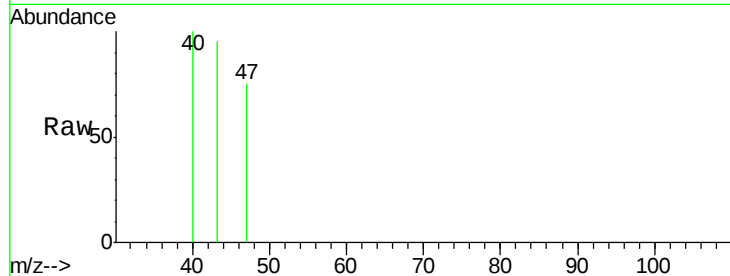
72-12017-VNJ-206

Tot Ion: 43 Resp: 225

Ion Ratio Lower Upper

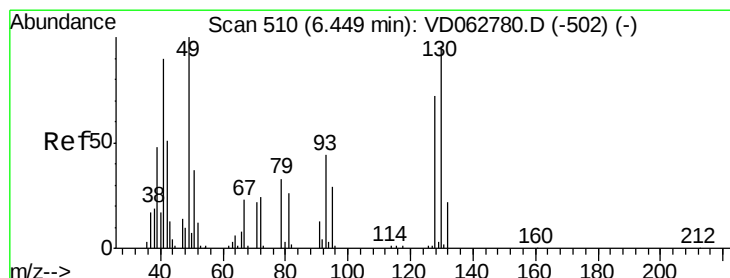
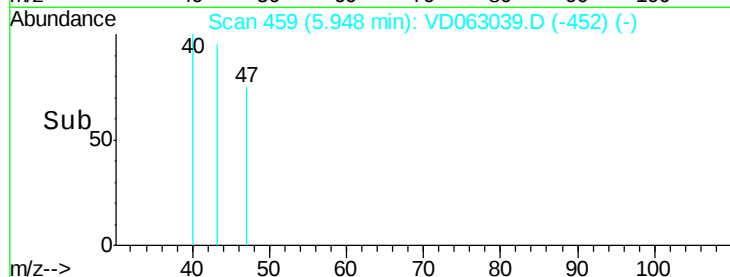
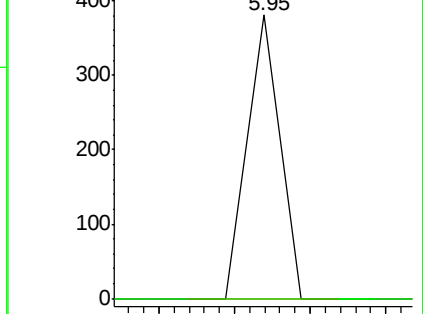
43 100

72 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 2.148 ug/l

RT: 6.49 min Scan# 514

Delta R.T. 0.04 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

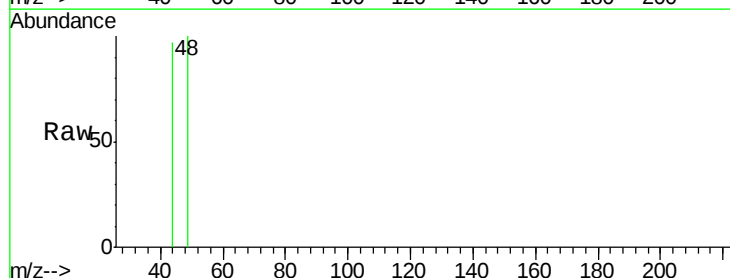
Tgt Ion: 49 Resp: 207

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

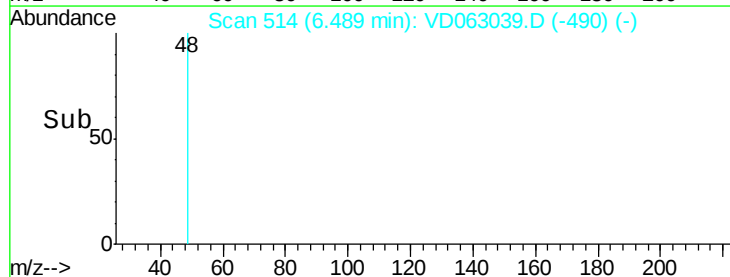
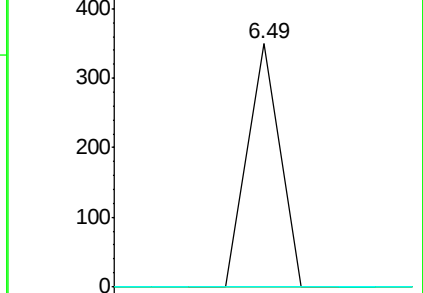
130 0.0 76.6 114.8#

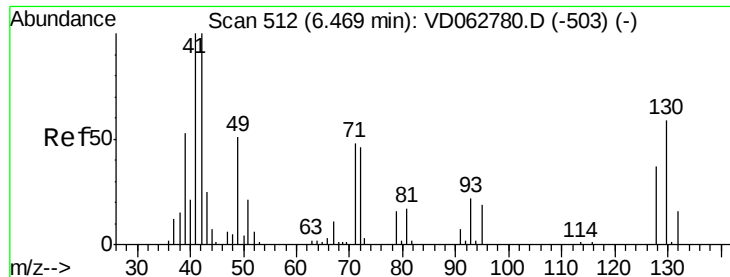


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 15.755 ug/l

RT: 6.36 min Scan# 501

Delta R.T. -0.11 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

72-12017-VNJ-206

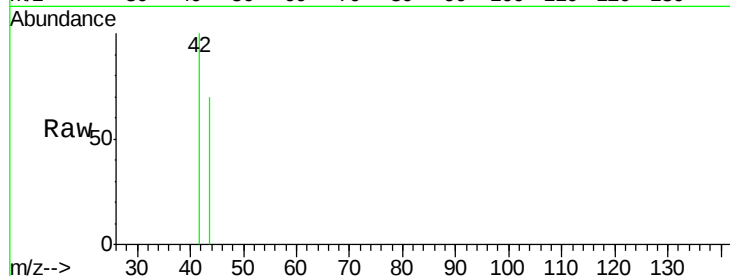
Tot Ion: 42 Resp: 267

Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.6#

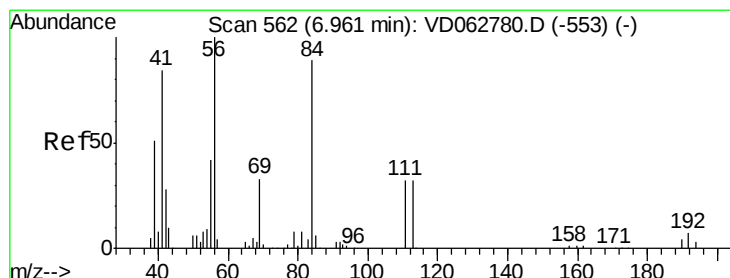
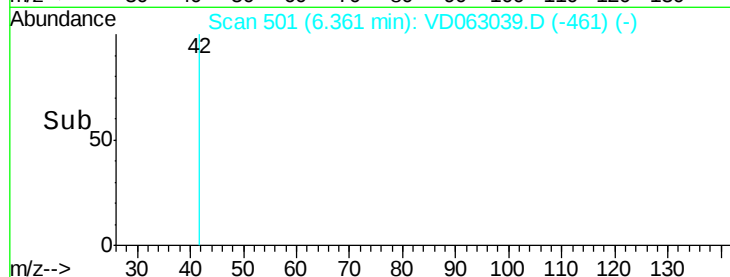
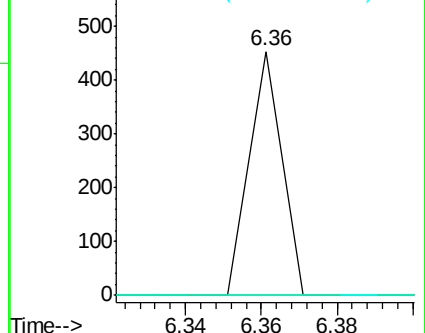
71 0.0 33.3 49.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.162 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.06 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

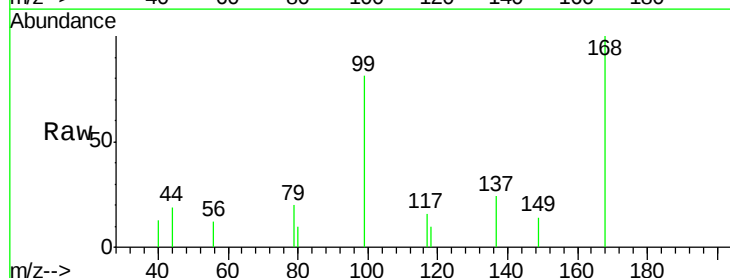
Tgt Ion: 56 Resp: 209

Ion Ratio Lower Upper

56 100

69 0.0 26.6 39.8#

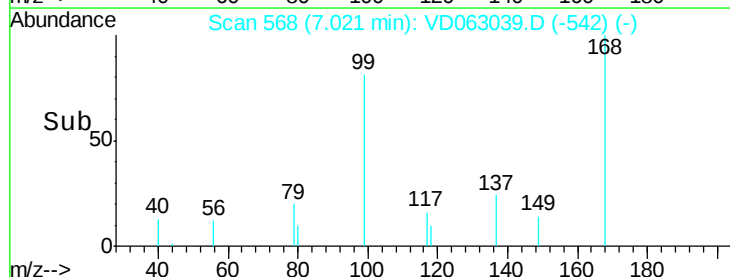
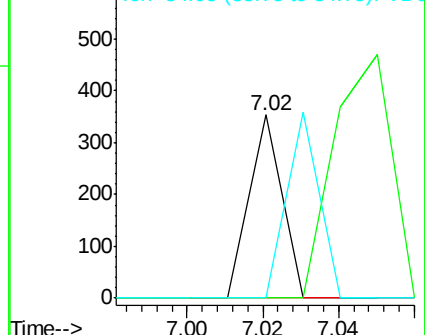
84 0.0 75.5 113.3#

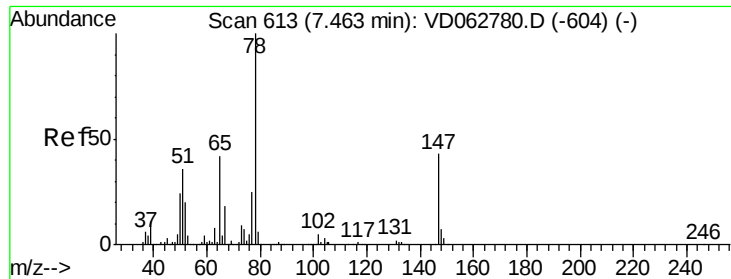


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 55.285 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.02 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

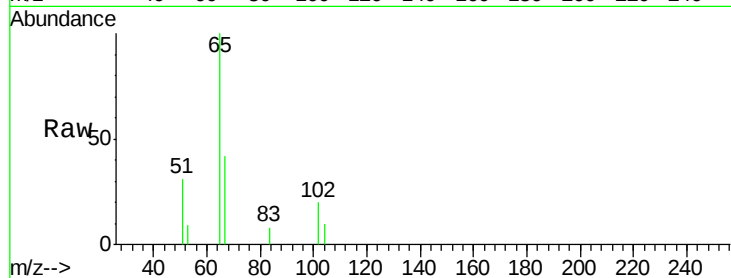
72-12017-VNJ-206

Tot Ion: 65 Resp: 10588

Ion Ratio Lower Upper

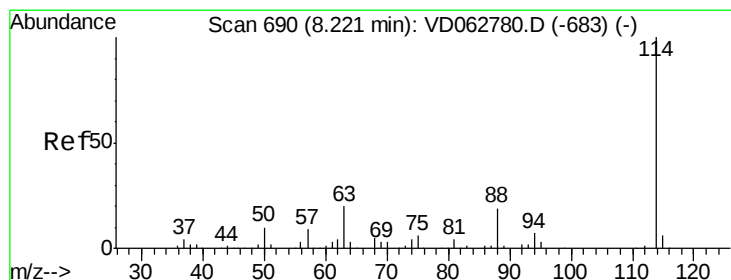
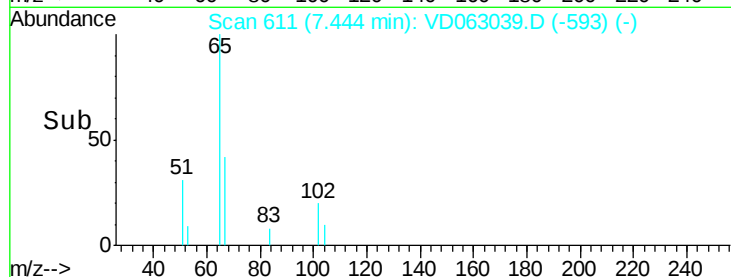
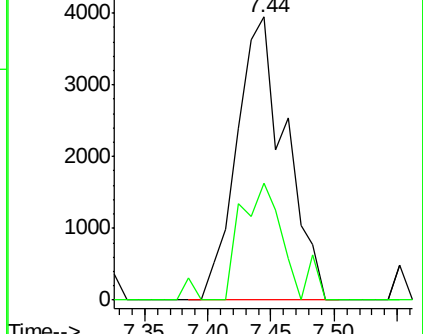
65 100

67 41.5 0.0 87.4



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: 8.21 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

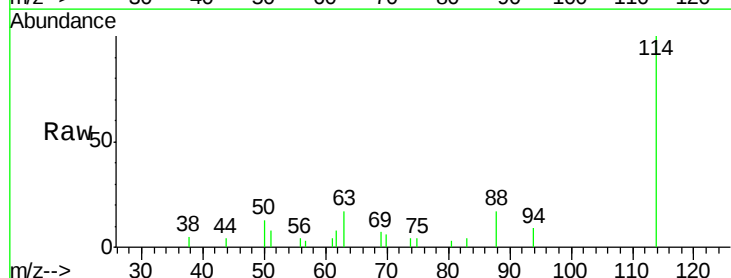
Tgt Ion: 114 Resp: 22791

Ion Ratio Lower Upper

114 100

63 17.2 0.0 40.0

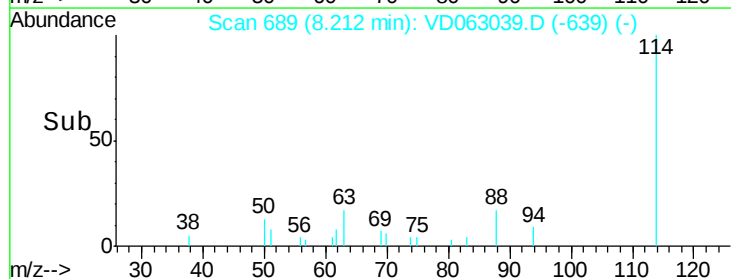
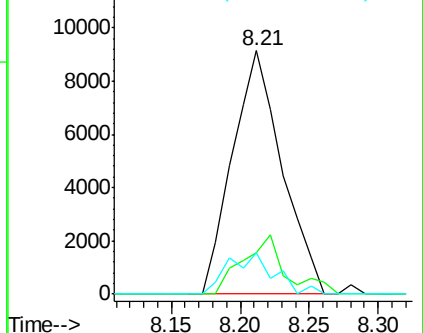
88 16.9 0.0 38.8

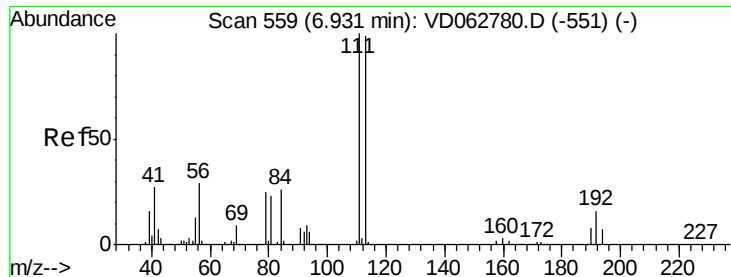


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 40.313 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

72-12017-VNJ-206

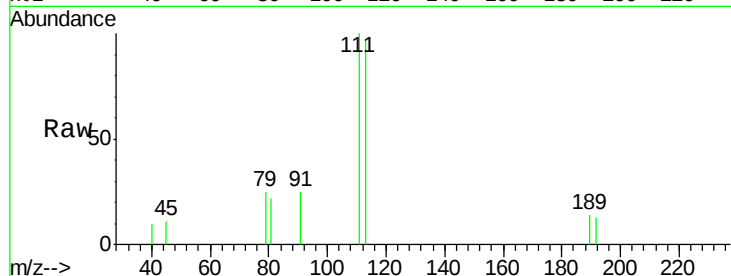
Tot Ion:113 Resp: 7747

Ion Ratio Lower Upper

113 100

111 103.4 81.2 121.8

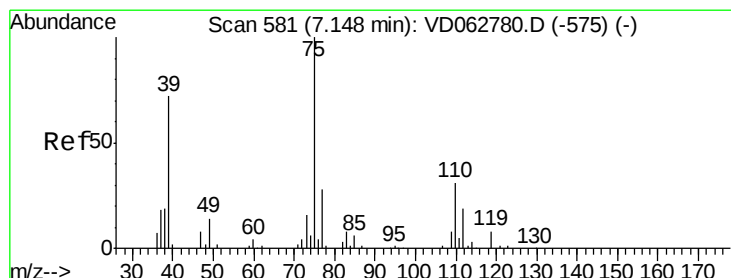
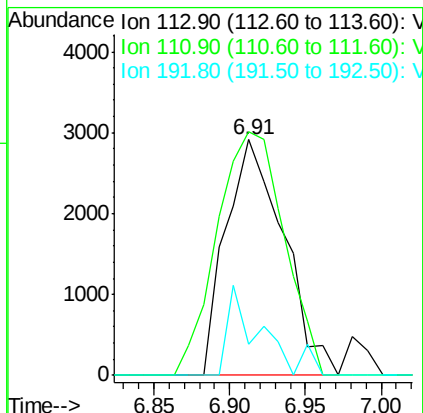
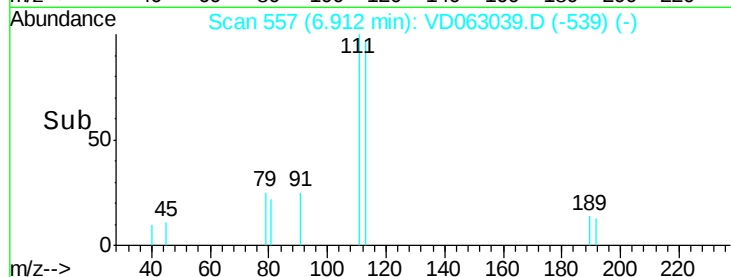
192 13.2 12.9 19.3



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: 1.975 ug/l

RT: 7.08 min Scan# 574

Delta R.T. -0.07 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

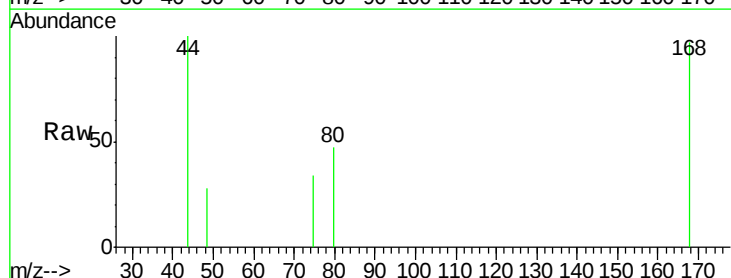
Tgt Ion: 75 Resp: 426

Ion Ratio Lower Upper

75 100

110 0.0 15.0 45.1#

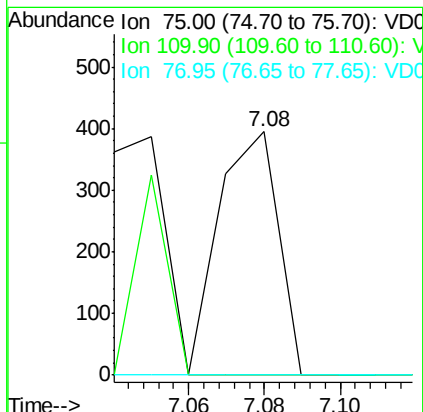
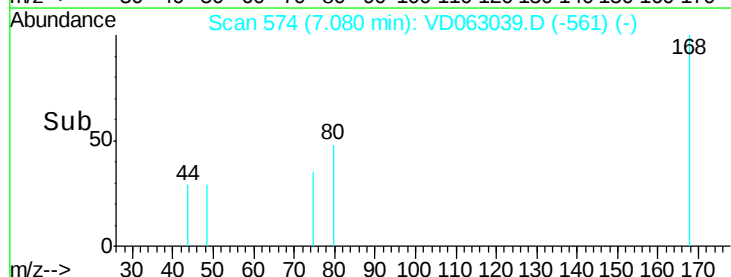
77 0.0 22.2 33.2#

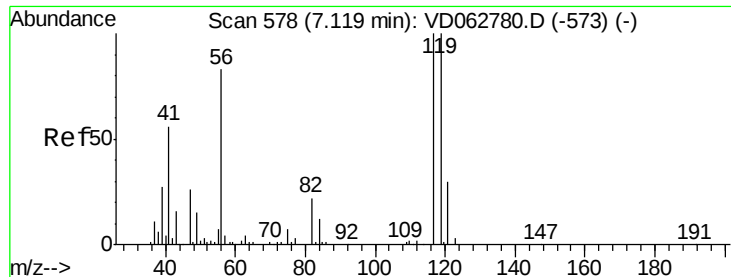


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 4.589 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.09 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

72-12017-VNJ-206

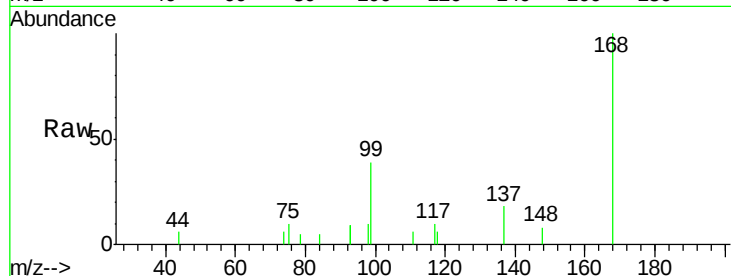
Tot Ion:117 Resp: 1489

Ion Ratio Lower Upper

117 100

119 0.0 75.4 113.2#

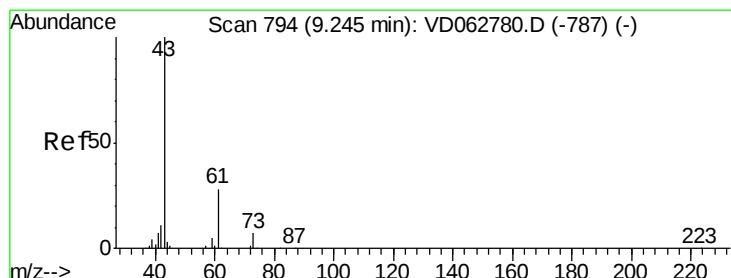
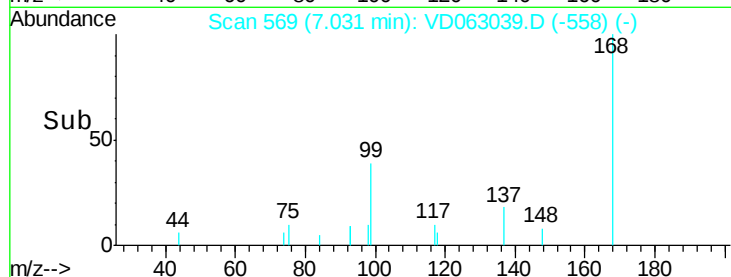
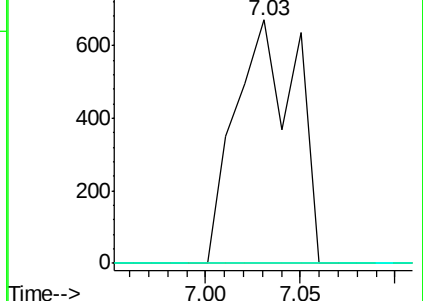
121 0.0 22.3 33.5#



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: 1.574 ug/l

RT: 9.23 min Scan# 792

Delta R.T. -0.02 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

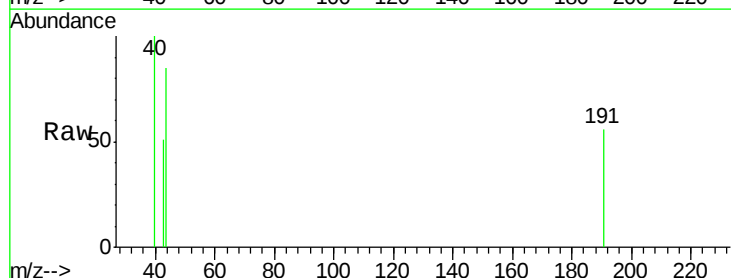
Tgt Ion: 43 Resp: 178

Ion Ratio Lower Upper

43 100

61 0.0 22.4 33.6#

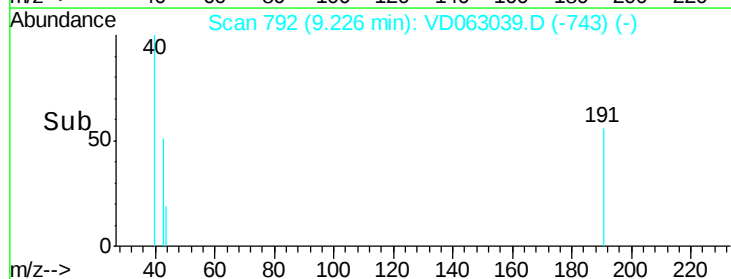
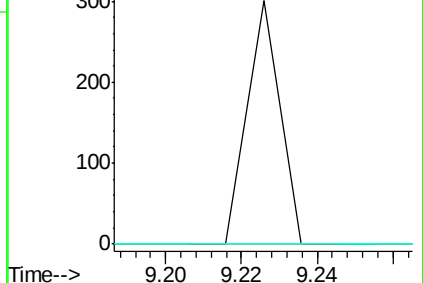
87 0.0 0.3 0.5#

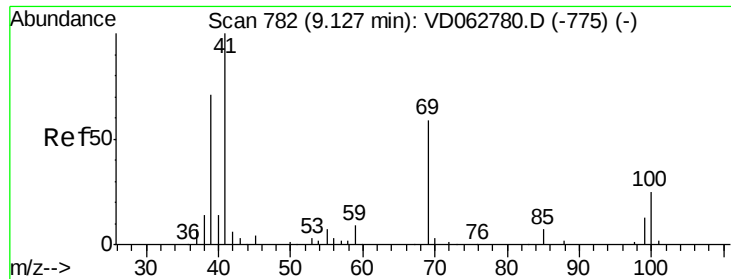


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC

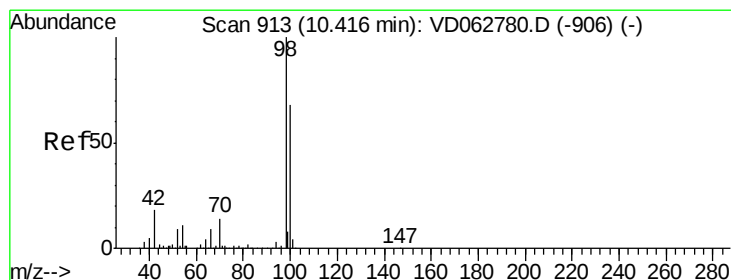
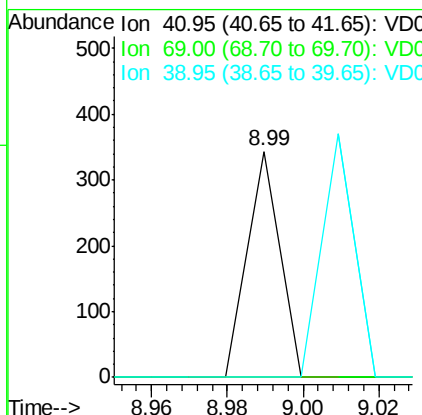
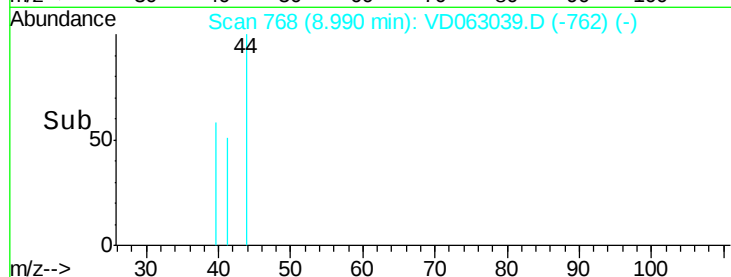
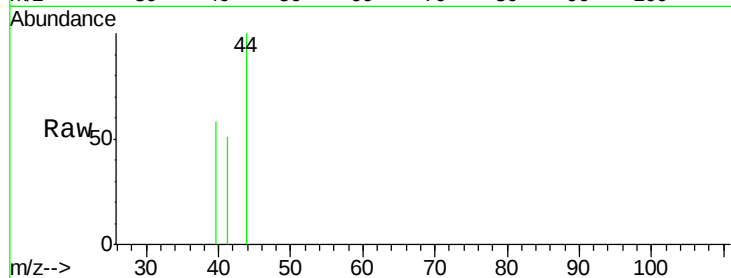




#48  
Methvl methacrilate  
Concen: 2.526 ug/l  
RT: 8.99 min Scan# 768  
Delta R.T. -0.14 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

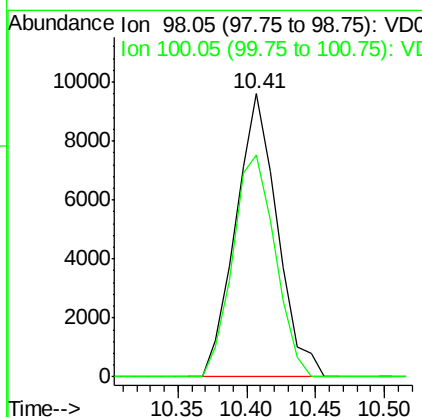
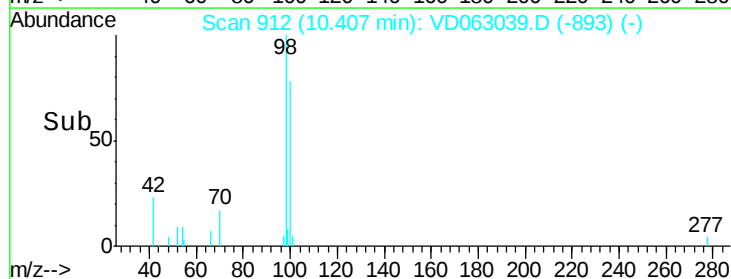
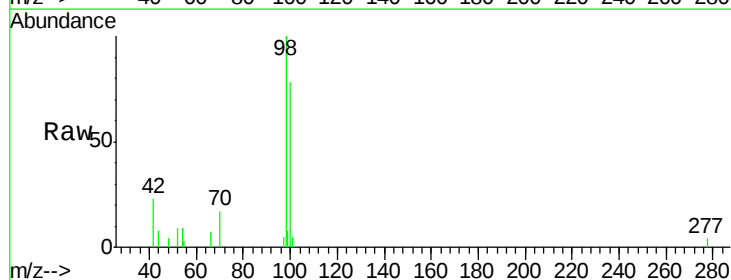
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-12017-VNJ-206

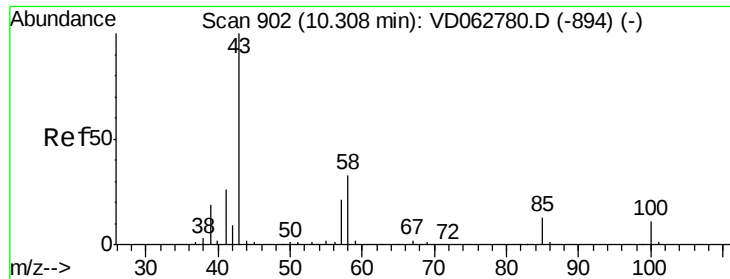
Tot Ion: 41 Resp: 203  
Ion Ratio Lower Upper  
41 100  
69 0.0 47.2 70.8#  
39 0.0 57.4 86.2#



#50  
Toluene-d8  
Concen: 48.281 ug/l  
RT: 10.41 min Scan# 912  
Delta R.T. -0.01 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

Tgt Ion: 98 Resp: 20194  
Ion Ratio Lower Upper  
98 100  
100 72.7 54.7 82.1

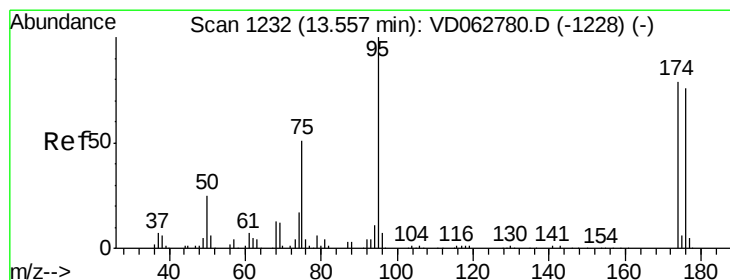
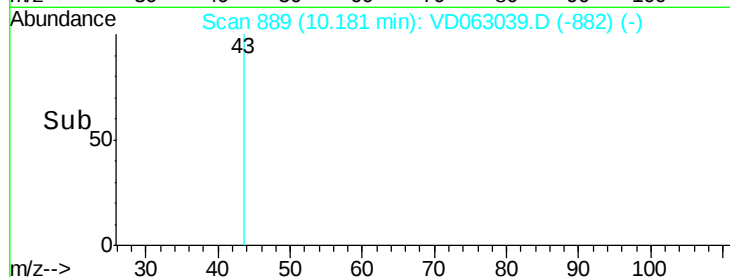
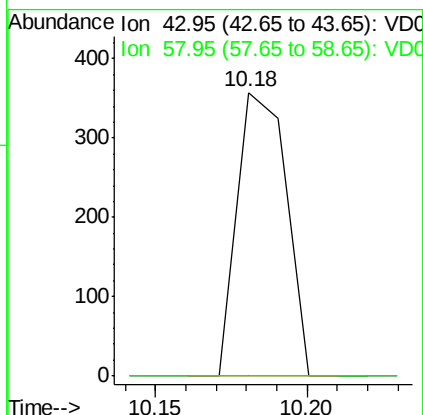
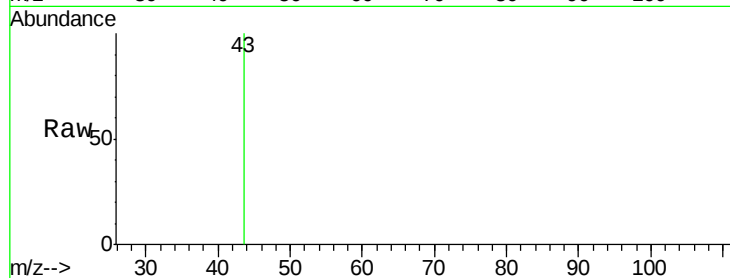




#51  
4-Methyl-2-Pentanone  
Concen: 5.013 ug/l  
RT: 10.18 min Scan# 889  
Delta R.T. -0.13 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

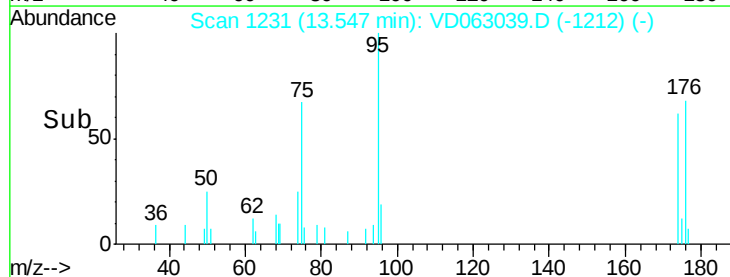
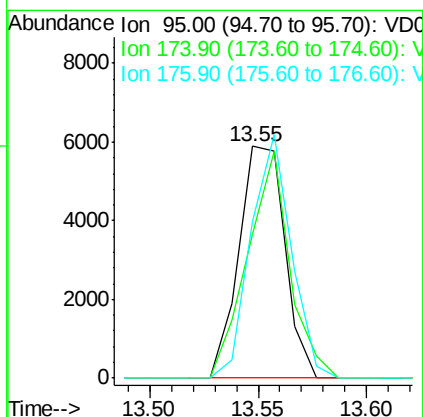
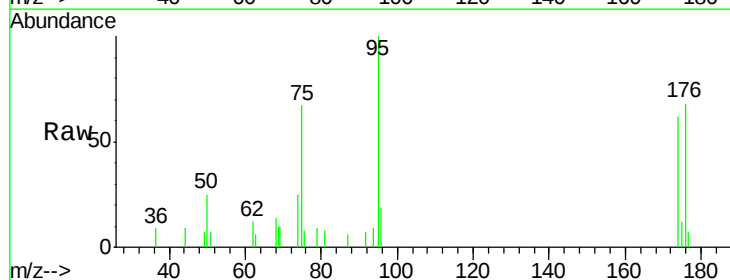
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-12017-VNJ-206

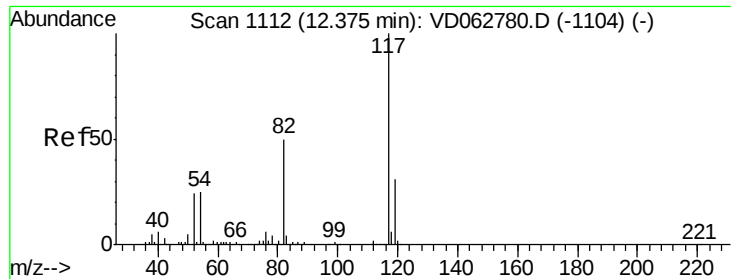
Tot Ion: 43 Resp: 402  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.6 40.0#



#62  
4-Bromofluorobenzene  
Concen: 46.239 ug/l  
RT: 13.55 min Scan# 1231  
Delta R.T. -0.01 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

Tgt Ion: 95 Resp: 8794  
Ion Ratio Lower Upper  
95 100  
174 62.0 0.0 158.0  
176 74.3 0.0 151.6

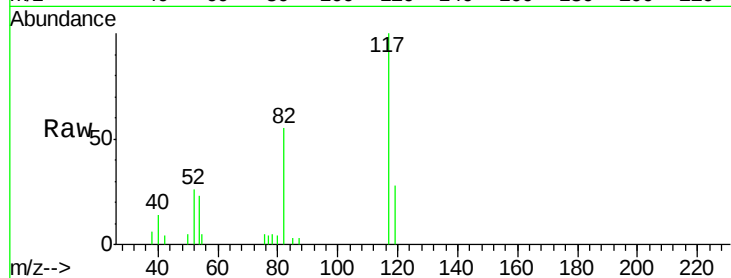




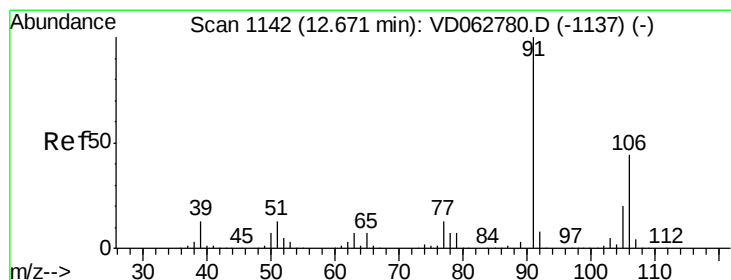
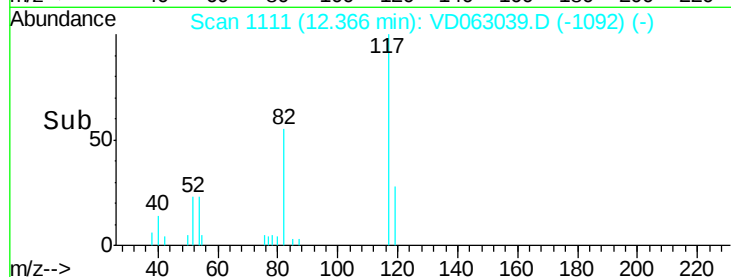
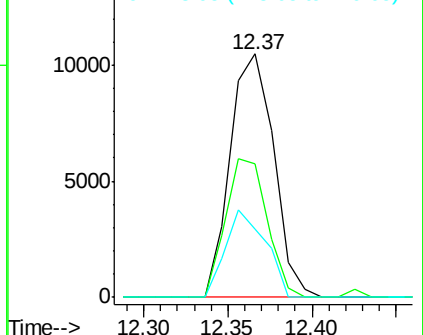
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1111  
Delta R.T. -0.01 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
72-12017-VNJ-206

Tot Ion:117 Resp: 18836  
Ion Ratio Lower Upper  
117 100  
82 54.9 40.4 60.6  
119 28.3 25.2 37.8

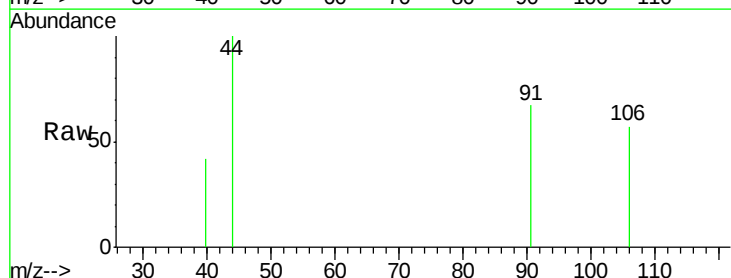


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): VDC  
Ion 118.95 (118.65 to 119.65): V

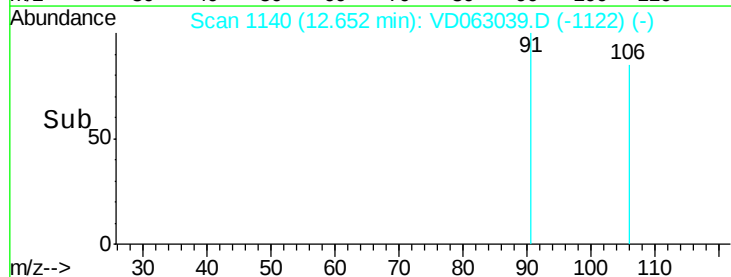
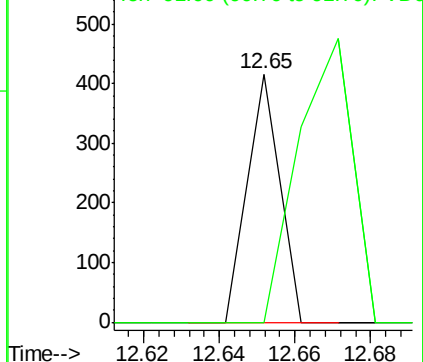


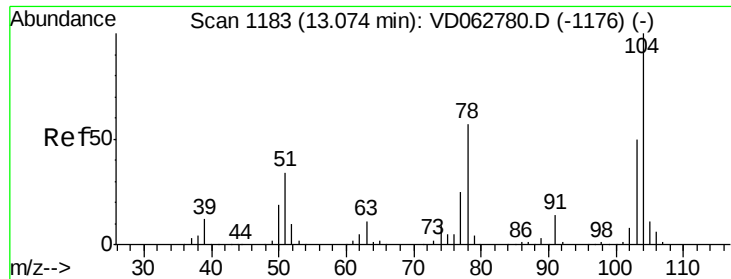
#68  
m/p-Xylenes  
Concen: 1.125 ug/l  
RT: 12.65 min Scan# 1140  
Delta R.T. -0.02 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

Tgt Ion:106 Resp: 246  
Ion Ratio Lower Upper  
106 100  
91 0.0 183.0 274.6#



Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): VDC

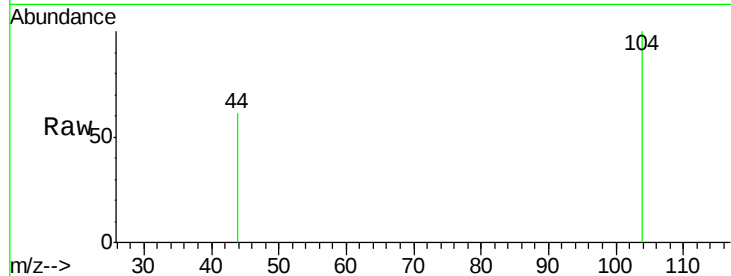




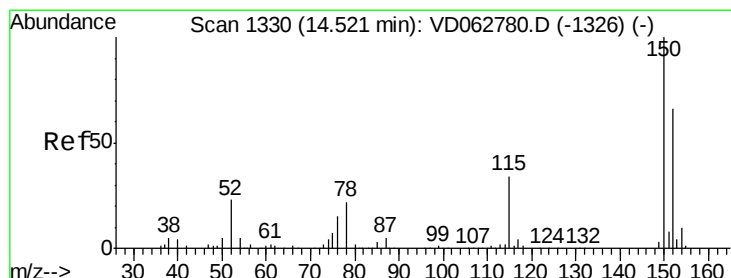
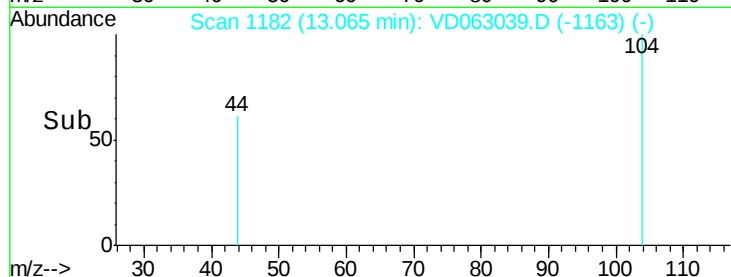
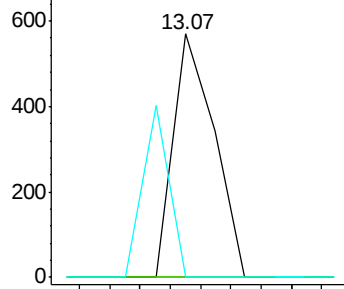
#70  
Stvrene  
Concen: 1.538 ug/l  
RT: 13.07 min Scan# 1182  
Delta R.T. -0.01 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
72-12017-VNJ-206

Tot Ion:104 Resp: 540  
Ion Ratio Lower Upper  
104 100  
78 0.0 45.4 68.2#  
103 0.0 39.7 59.5#

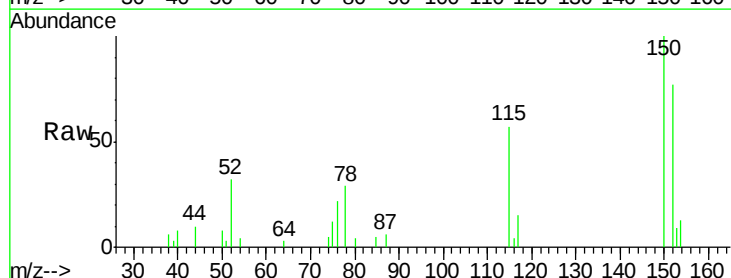


Abundance Ion 104.05 (103.75 to 104.75): V  
Ion 77.95 (77.65 to 78.65): V  
Ion 103.05 (102.75 to 103.75): V

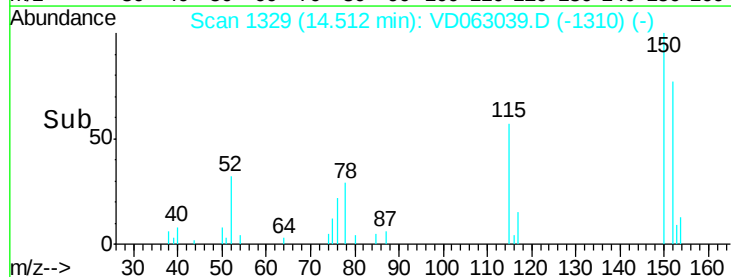
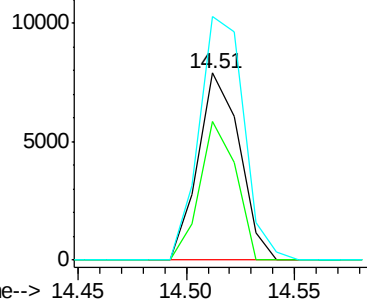


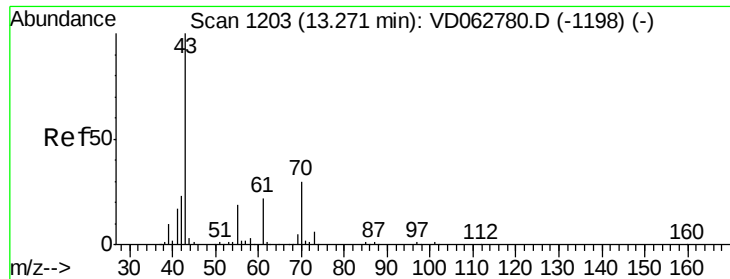
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1329  
Delta R.T. -0.01 min  
Lab File: VD063039.D  
Acq: 8 Jul 2019 16:31

Tgt Ion:152 Resp: 10533  
Ion Ratio Lower Upper  
152 100  
115 74.4 29.2 87.6  
150 130.3 0.0 305.8



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





#74

N-amvl acetate

Concen: 1.177 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.03 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

72-12017-VNJ-206

Tot Ion: 43 Resp: 193

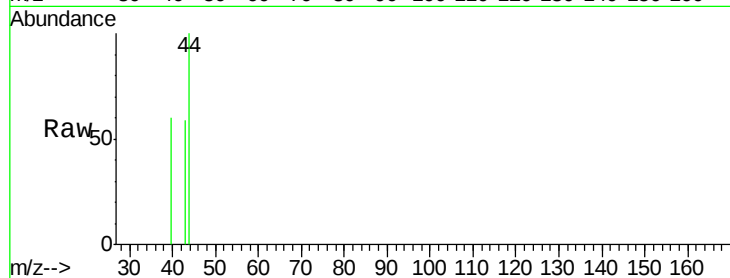
Ion Ratio Lower Upper

43 100

70 0.0 24.4 36.6#

55 0.0 15.2 22.8#

61 0.0 17.4 26.2#

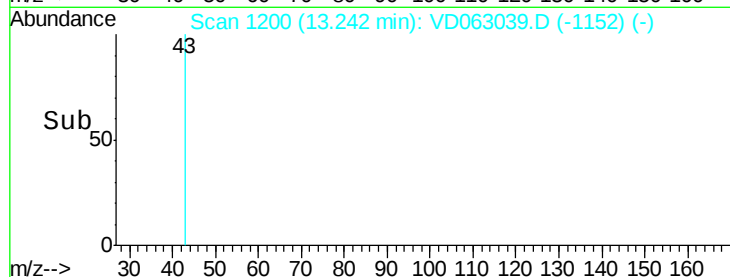
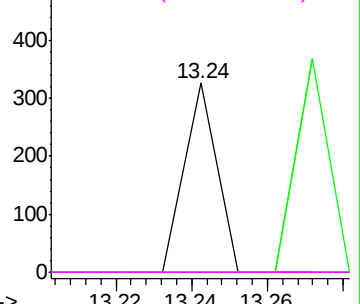


Abundance Ion 42.95 (42.65 to 43.65): VDC

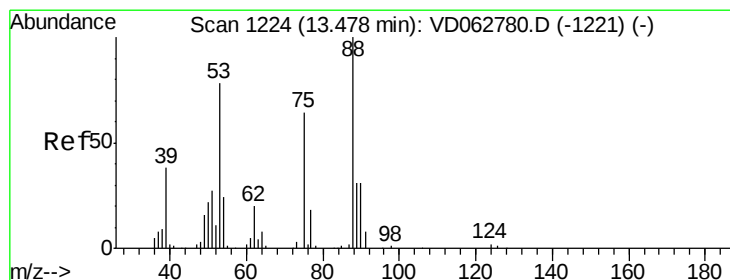
Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 170.890 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

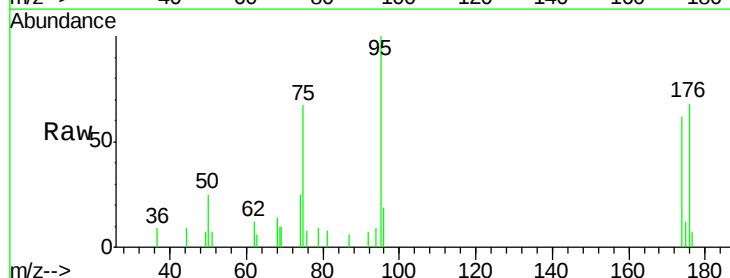
Tgt Ion: 75 Resp: 5446

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

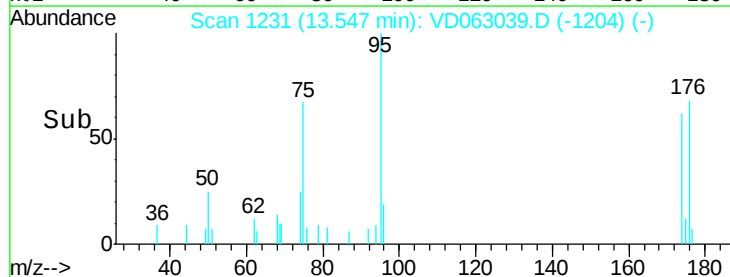
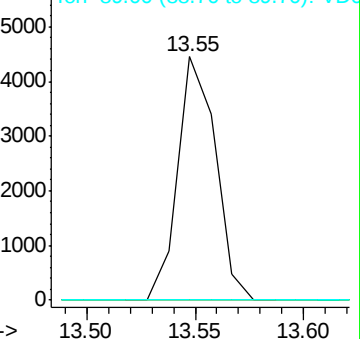
89 0.0 39.4 59.2#

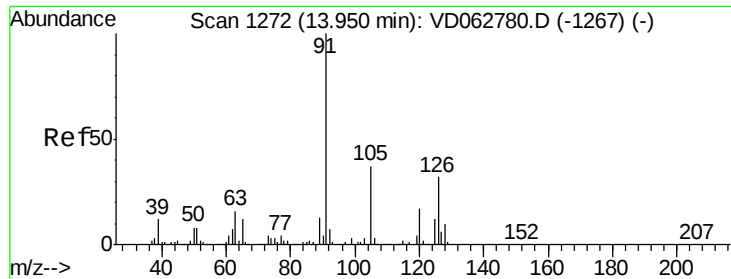


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: 1.219 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

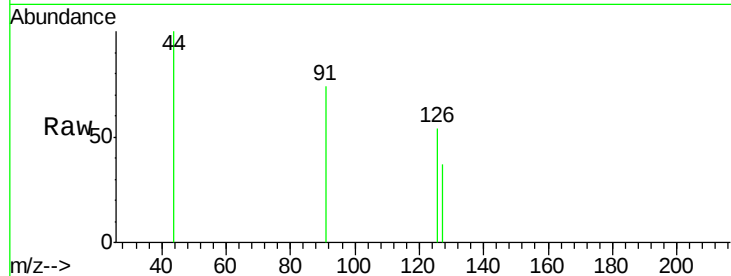
72-12017-VNJ-206

Tot Ion: 91 Resp: 659

Ion Ratio Lower Upper

91 100

126 73.0 16.0 47.9#



Abundance Ion 91.00 (90.70 to 91.70): VD062780.D (-1267) (-)

Ion 125.95 (125.65 to 126.65): VD062780.D (-1267) (-)

13.94

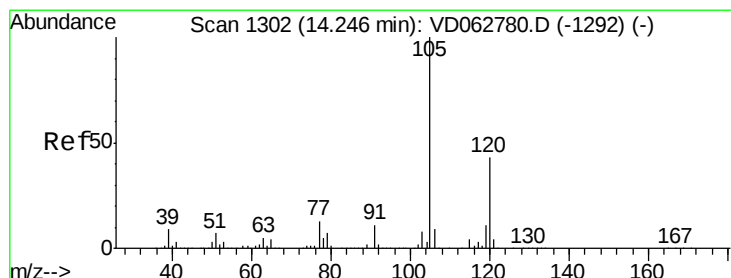
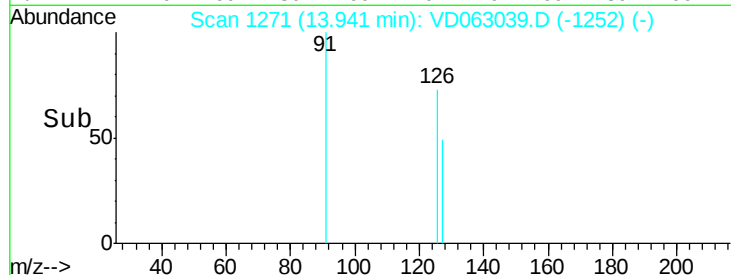
600

400

200

0

Time--> 13.90 13.95



#84

1,2,4-Trimethylbenzene

Concen: 1.428 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VD063039.D

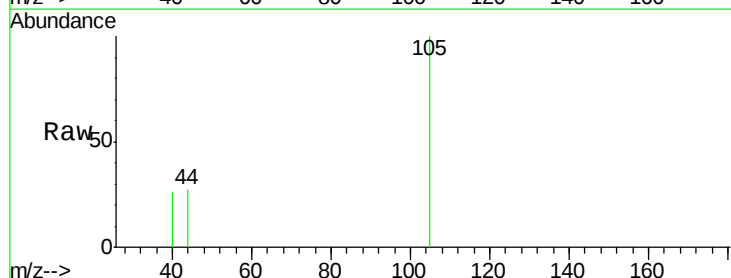
Acq: 8 Jul 2019 16:31

Tgt Ion: 105 Resp: 830

Ion Ratio Lower Upper

105 100

120 0.0 21.3 63.9#



Abundance Ion 105.05 (104.75 to 105.75): VD062780.D (-1292) (-)

Ion 120.05 (119.75 to 120.75): VD062780.D (-1292) (-)

14.24

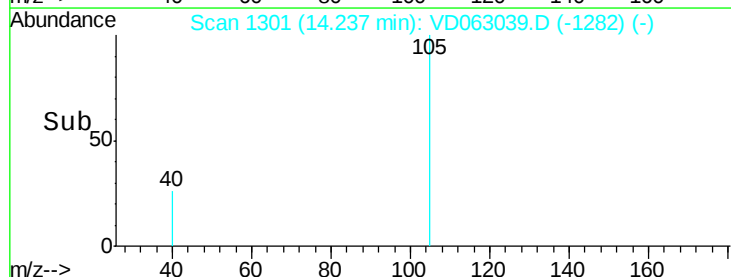
1500

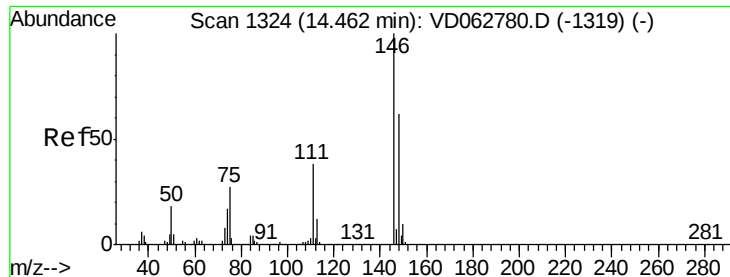
1000

500

0

Time--> 14.20 14.22 14.24 14.26

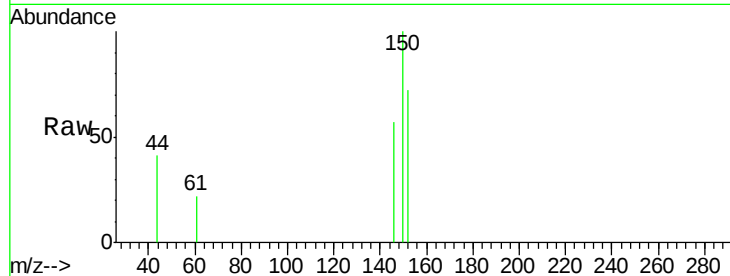




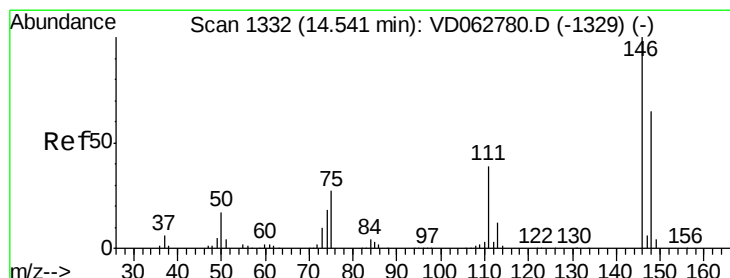
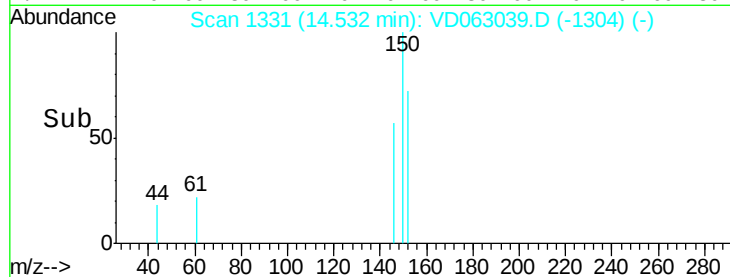
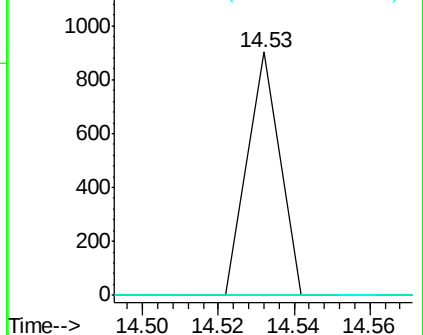
#87  
 1,3-Dichlorobenzene  
 Concen: 1.637 ug/l  
 RT: 14.53 min Scan# 1331  
 Delta R.T. 0.07 min  
 Lab File: VD063039.D  
 Acq: 8 Jul 2019 16:31

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-12017-VNJ-206

Tot Ion:146 Resp: 533  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 19.0 57.0#  
 148 0.0 30.8 92.3#

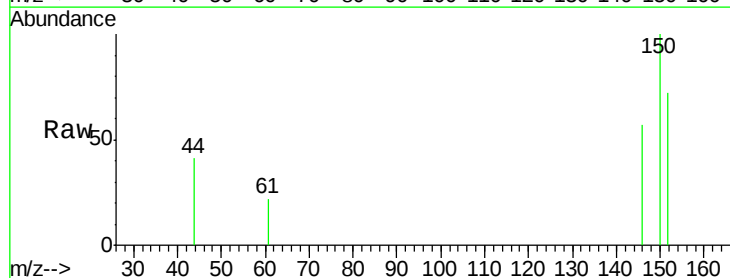


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

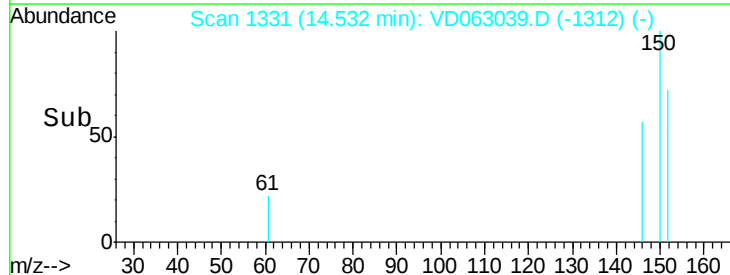
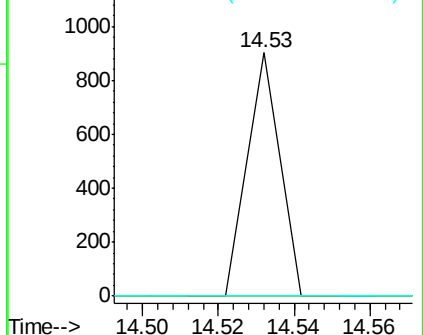


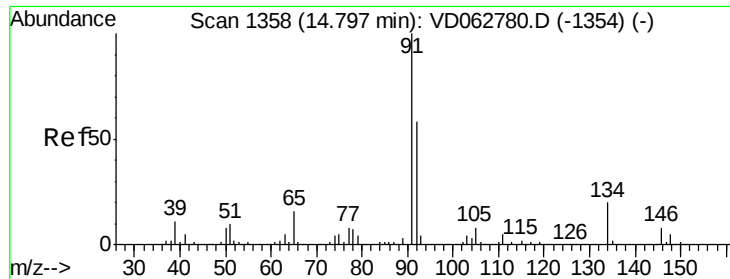
#88  
 1,4-Dichlorobenzene  
 Concen: 1.630 ug/l  
 RT: 14.53 min Scan# 1331  
 Delta R.T. -0.01 min  
 Lab File: VD063039.D  
 Acq: 8 Jul 2019 16:31

Tgt Ion:146 Resp: 533  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 19.7 59.1#  
 148 0.0 32.8 98.3#



Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 1.669 ug/l

RT: 14.79 min Scan# 1357

Delta R.T. -0.01 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

72-12017-VNJ-206

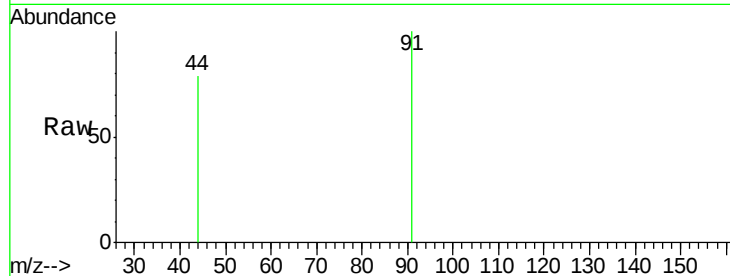
Tot Ion: 91 Resp: 982

Ion Ratio Lower Upper

91 100

92 0.0 28.9 86.7#

134 0.0 10.1 30.3#

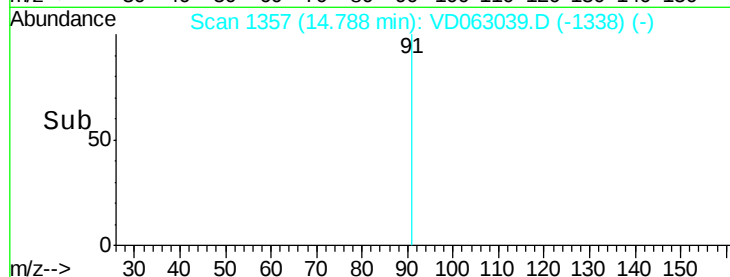


Abundance Ion 91.00 (90.70 to 91.70): VDC

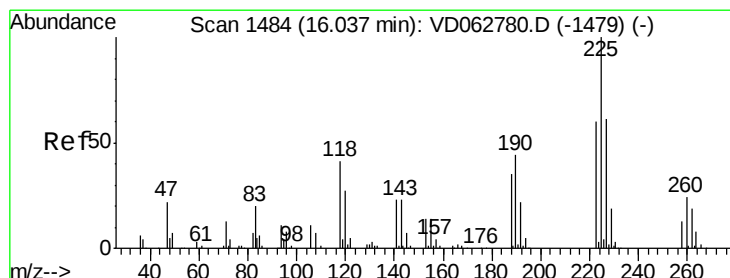
Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC

Time-->



Time-->



#94

Hexachlorobutadiene

Concen: 1.738 ug/l

RT: 16.04 min Scan# 1484

Delta R.T. 0.00 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

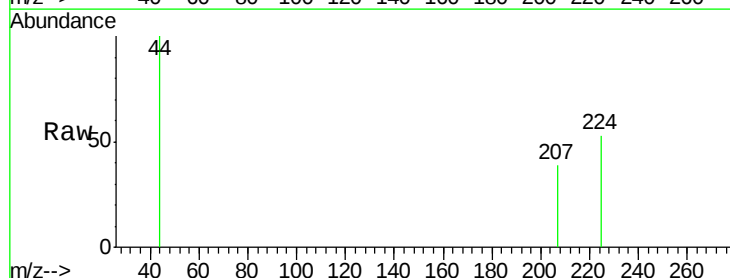
Tgt Ion: 225 Resp: 289

Ion Ratio Lower Upper

225 100

223 0.0 29.8 89.5#

227 0.0 30.6 91.6#

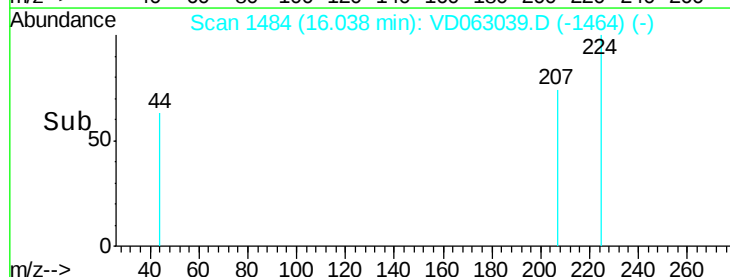


Abundance Ion 224.75 (224.45 to 225.45): V

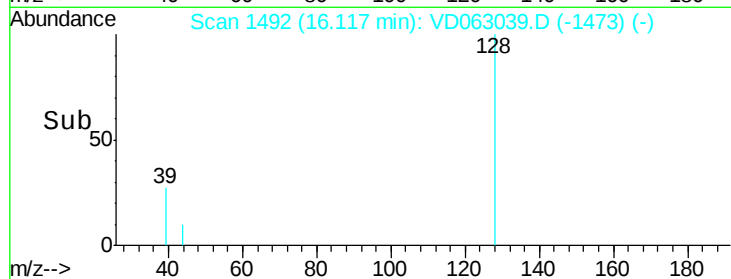
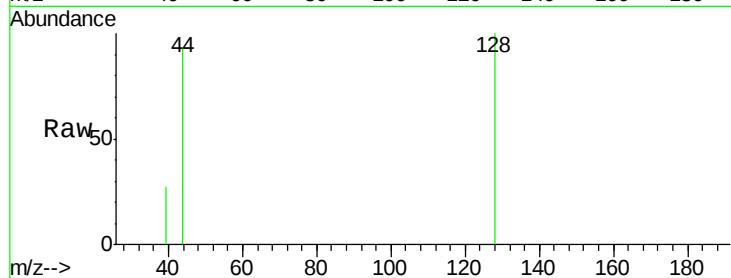
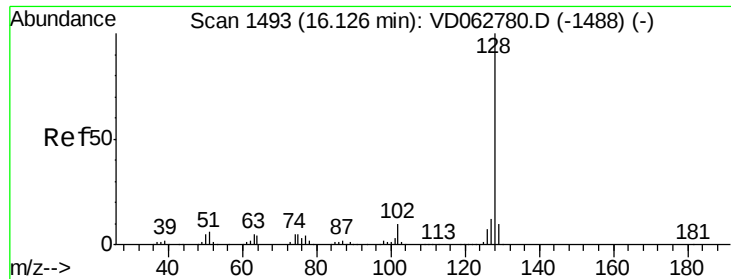
Ion 222.75 (222.45 to 223.45): V

Ion 226.75 (226.45 to 227.45): V

Time-->



Time-->



#95

Naphthalene

Concen: 3.711 ug/l

RT: 16.12 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VD063039.D

Acq: 8 Jul 2019 16:31

Instrument :

MSVOA\_D

ClientSampleId :

72-12017-VNJ-206

Tot Ion:128 Resp: 1132

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 0.0 8.3 12.5#

