

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022219\  
 Data File : VF061717.D  
 Acq On : 22 Feb 2019 19:23  
 Operator : VA/AP  
 Sample : K1597-11RE  
 Misc : 4.05µ/5mL/MSVOA-F/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-22RE

Quant Time: Feb 23 01:46:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 14 03:27:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.85  | 168  | 4020     | 50.00 | ug/l  | -0.04    |
| 34) 1,4-Difluorobenzene    | 5.58  | 114  | 5240     | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 9.76  | 117  | 3065     | 50.00 | ug/l  | -0.03    |
| 72) 1,4-Dichlorobenzene-d4 | 12.54 | 152  | 1169     | 50.00 | ug/l  | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|------------|--------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.83  | 65   | 272        | 9.23   | ug/l  | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery = | 18.46% |       |          |
| 35) Dibromofluoromethane    | 4.09  | 113  | 814        | 20.92  | ug/l  | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery = | 41.84% |       |          |
| 50) Toluene-d8              | 7.54  | 98   | 3806       | 34.02  | ug/l  | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery = | 68.04% |       |          |
| 62) 4-Bromofluorobenzene    | 11.40 | 95   | 928        | 20.50  | ug/l  | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery = | 41.00% |       |          |

| Target Compounds             | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|------------------------------|------|------|----------|---------|--------|--------|
| 3) Chloromethane             | 1.06 | 50   | 60       | 1.239   | ug/l # | 42     |
| 4) Vinyl Chloride            | 1.22 | 62   | 107      | 2.376   | ug/l # | 40     |
| 5) Bromomethane              | 1.29 | 94   | 270      | 8.712   | ug/l # | 3      |
| 6) Chloroethane              | 1.33 | 64   | 61       | 2.749   | ug/l # | 40     |
| 8) Diethyl Ether             | 1.63 | 74   | 60       | 4.384   | ug/l   | 96     |
| 11) Tert butyl alcohol       | 2.49 | 59   | 75       | 43.961  | ug/l # | 63     |
| 12) 1,1-Dichloroethene       | 1.78 | 96   | 69       | 2.003   | ug/l # | 1      |
| 13) Acrolein                 | 1.99 | 56   | 315      | 146.906 | ug/l   | 94     |
| 14) Allyl chloride           | 2.11 | 41   | 897      | 21.220  | ug/l # | 73     |
| 15) Acrylonitrile            | 2.92 | 53   | 161      | 26.605  | ug/l # | 21     |
| 16) Acetone                  | 2.26 | 43   | 1136     | 179.607 | ug/l # | 83     |
| 17) Carbon Disulfide         | 1.84 | 76   | 156      | 1.441   | ug/l # | 1      |
| 18) Methyl Acetate           | 2.35 | 43   | 268      | 18.809  | ug/l # | 59     |
| 19) Methyl tert-butyl Ether  | 2.43 | 73   | 79       | 1.342   | ug/l # | 1      |
| 20) Methylene Chloride       | 2.16 | 84   | 193      | 3.342   | ug/l # | 5      |
| 21) trans-1,2-Dichloroethene | 2.30 | 96   | 88       | 2.350   | ug/l # | 1      |
| 22) Diisopropyl ether        | 2.77 | 45   | 643      | 6.337   | ug/l # | 1      |
| 23) Vinyl Acetate            | 3.15 | 43   | 164      | 3.309   | ug/l # | 74     |
| 24) 1,1-Dichloroethane       | 2.87 | 63   | 66       | 1.075   | ug/l # | 1      |
| 25) 2-Butanone               | 4.31 | 43   | 92       | 6.659   | ug/l # | 55     |
| 26) 2,2-Dichloropropane      | 3.55 | 77   | 60       | 2.307   | ug/l # | 52     |
| 27) cis-1,2-Dichloroethene   | 3.43 | 96   | 62       | 1.261   | ug/l   | 1      |
| 29) Tetrahydrofuran          | 4.07 | 42   | 80       | 12.740  | ug/l # | 33     |
| 31) Cyclohexane              | 3.57 | 56   | 82       | 1.234   | ug/l # | 16     |
| 36) 1,1-Dichloropropene      | 4.22 | 75   | 63       | 1.214   | ug/l # | 37     |
| 37) Ethyl Acetate            | 4.11 | 43   | 70       | 2.903   | ug/l # | 30     |
| 38) Carbon Tetrachloride     | 3.90 | 117  | 67       | 1.869   | ug/l # | 13     |
| 41) Methacrylonitrile        | 4.74 | 41   | 185      | 15.004  | ug/l # | 50     |
| 43) Isopropyl Acetate        | 6.94 | 43   | 71       | 2.488   | ug/l # | 43     |
| 45) 1,2-Dichloropropane      | 6.26 | 63   | 62       | 1.889   | ug/l # | 44     |
| 47) Bromodichloromethane     | 6.27 | 83   | 60       | 1.356   | ug/l # | 24     |
| 48) Methyl methacrylate      | 6.69 | 41   | 140      | 8.152   | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone     | 8.24 | 43   | 65       | 3.188   | ug/l # | 34     |
| 56) Ethyl methacrylate       | 8.66 | 69   | 71       | 2.636   | ug/l # | 26     |

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 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
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 TP-22RE

Quant Time: Feb 23 01:46:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 14 03:27:56 2019  
 Response via : Initial Calibration

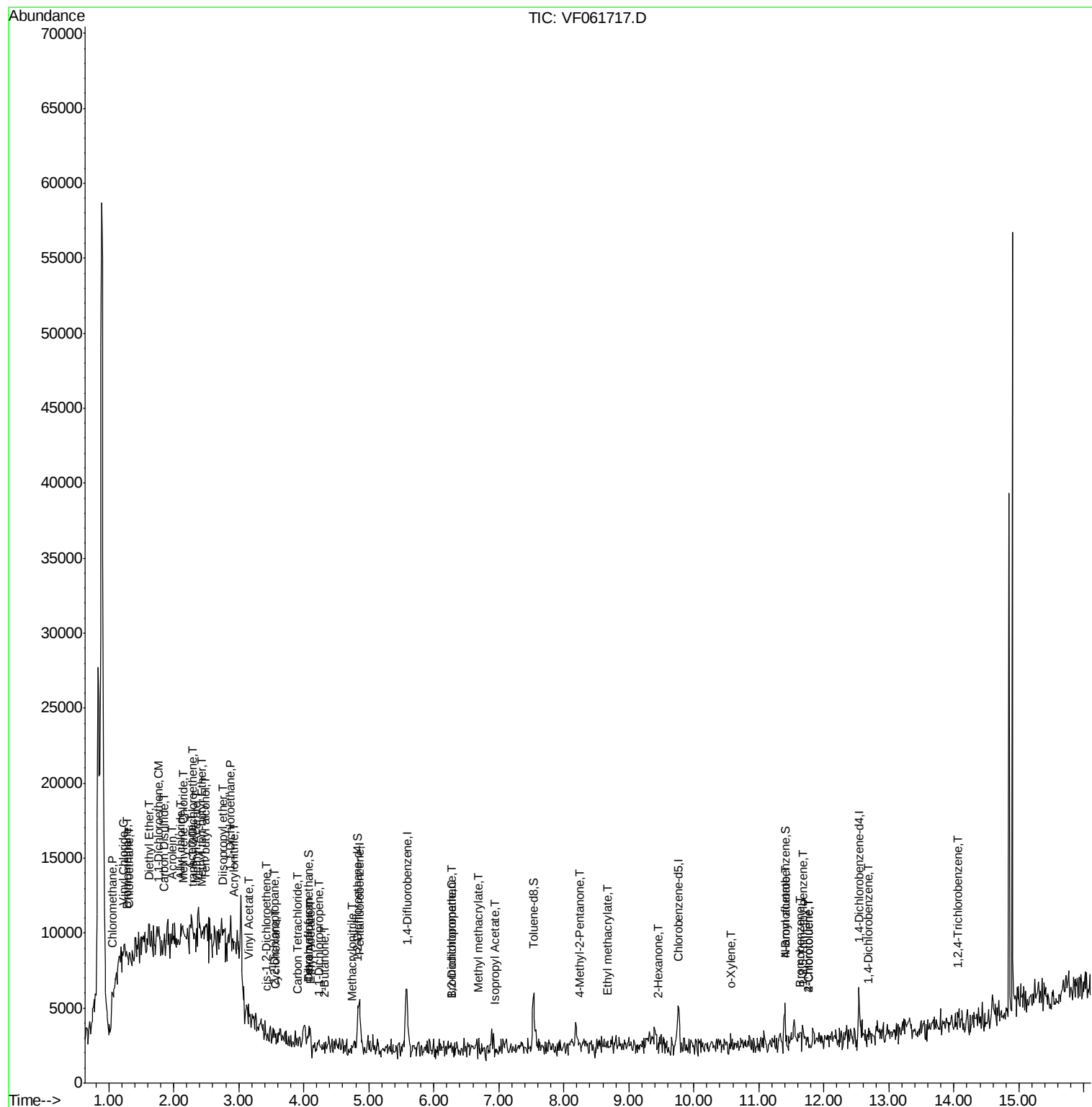
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|-------|------|----------|--------|--------|----------|
| 59) 2-Hexanone             | 9.45  | 43   | 63       | 4.407  | ug/l # | 23       |
| 69) o-Xylene               | 10.57 | 106  | 79       | 1.870  | ug/l # | 1        |
| 74) N-amyl acetate         | 11.40 | 43   | 256      | 12.814 | ug/l # | 44       |
| 77) Bromobenzene           | 11.63 | 156  | 63       | 3.064  | ug/l # | 1        |
| 79) 2-Chlorotoluene        | 11.76 | 91   | 65       | 1.215  | ug/l # | 36       |
| 80) 1,3,5-Trimethylbenzene | 11.69 | 105  | 67       | 1.007  | ug/l # | 23       |
| 82) 4-Chlorotoluene        | 11.76 | 91   | 65       | 1.171  | ug/l # | 37       |
| 88) 1,4-Dichlorobenzene    | 12.68 | 146  | 62       | 1.608  | ug/l # | 25       |
| 93) 1,2,4-Trichlorobenzene | 14.06 | 180  | 70       | 2.561  | ug/l # | 11       |

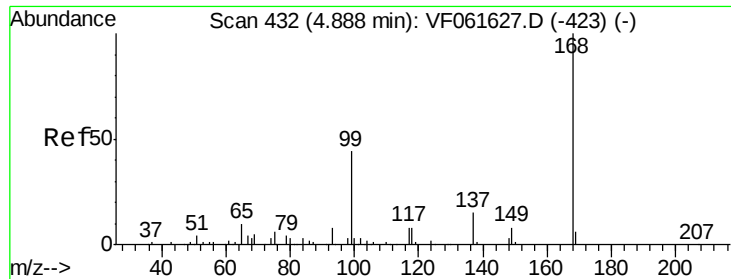
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022219\  
Data File : VF061717.D  
Acq On : 22 Feb 2019 19:23  
Operator : VA/AP  
Sample : K1597-11RE  
Misc : 4.05a/5mL/MSVOA-F/SOIL  
ALS Vial : 15 Sample Multiplier: 1

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QLast Update : Thu Feb 14 03:27:56 2019  
Response via : Initial Calibration

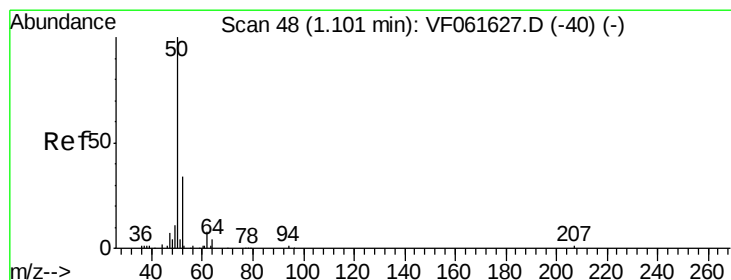
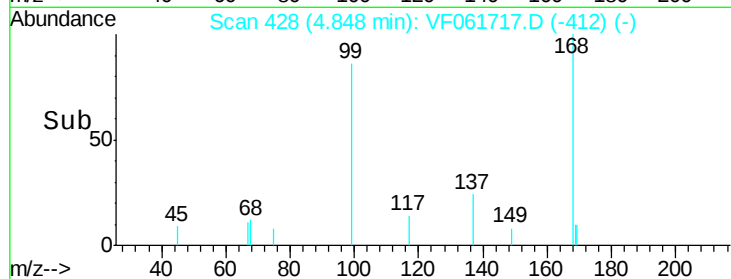
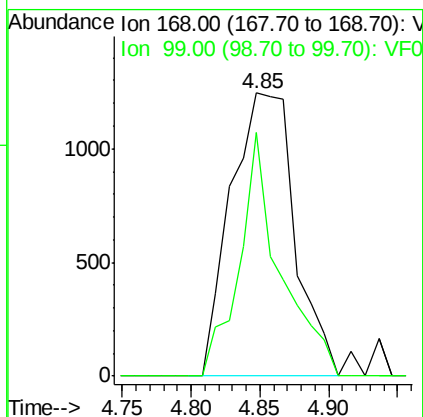
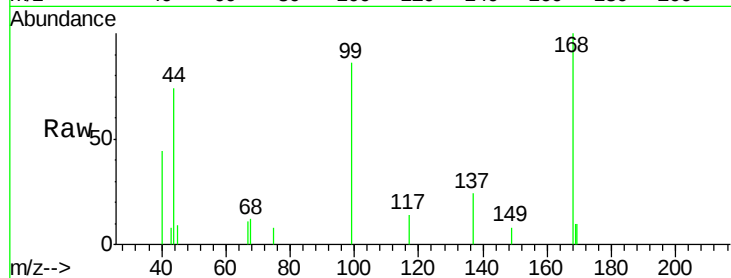




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.85 min Scan# 428  
Delta R.T. -0.04 min  
Lab File: VF061717.D  
Acq: 22 Feb 2019 19:23

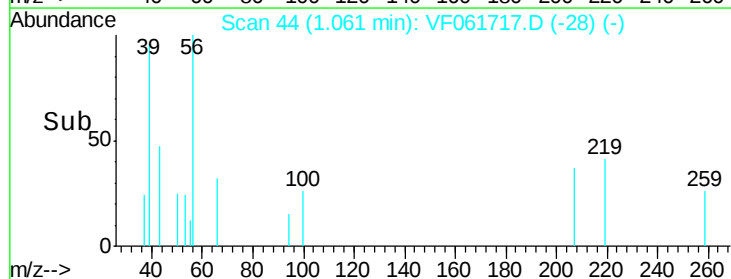
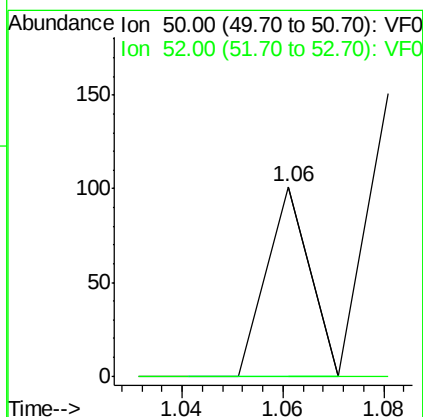
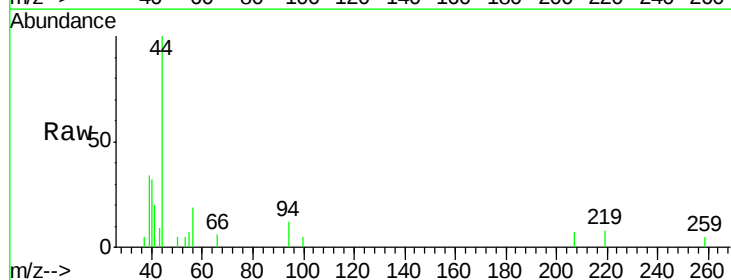
Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-22RE

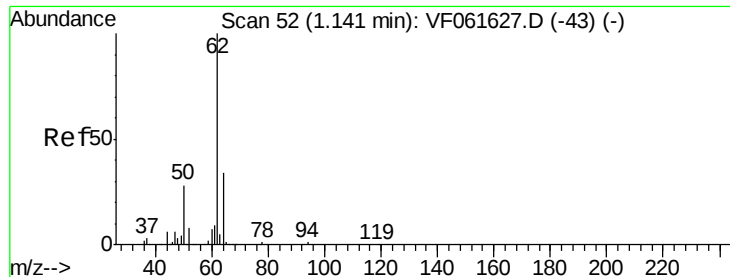
Tot Ion:168 Resp: 4020  
Ion Ratio Lower Upper  
168 100  
99 86.1 34.9 52.3#



#3  
Chloromethane  
Concen: 1.239 ug/l  
RT: 1.06 min Scan# 44  
Delta R.T. -0.04 min  
Lab File: VF061717.D  
Acq: 22 Feb 2019 19:23

Tgt Ion: 50 Resp: 60  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.2 39.4#





#4

Vinyl Chloride

Concen: 2.376 ug/l

RT: 1.22 min Scan# 60

Delta R.T. 0.08 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampled :

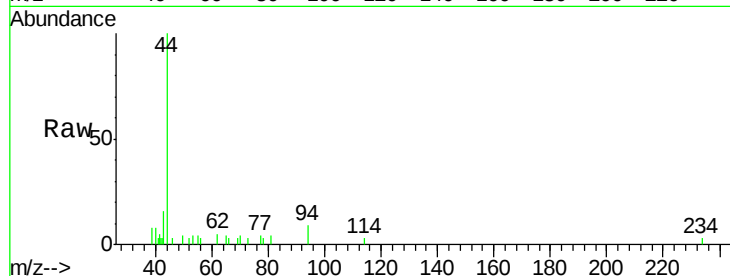
TP-22RE

Tot Ion: 62 Resp: 107

Ion Ratio Lower Upper

62 100

64 0.0 27.5 41.3#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.22

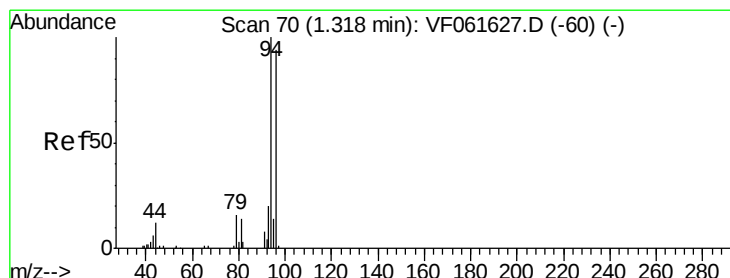
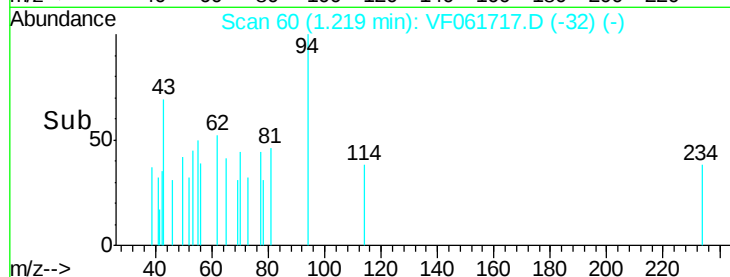
150

100

50

0

Time--> 1.18 1.20 1.22 1.24



#5

Bromomethane

Concen: 8.712 ug/l

RT: 1.29 min Scan# 67

Delta R.T. -0.03 min

Lab File: VF061717.D

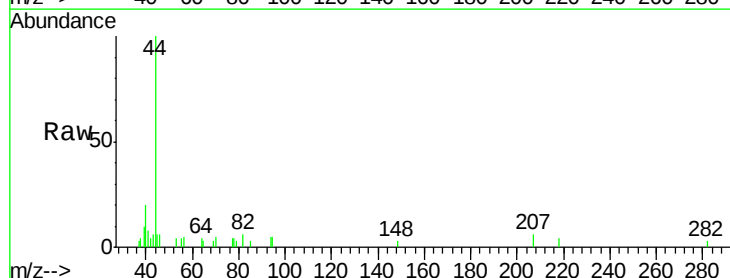
Acq: 22 Feb 2019 19:23

Tgt Ion: 94 Resp: 270

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.29

400

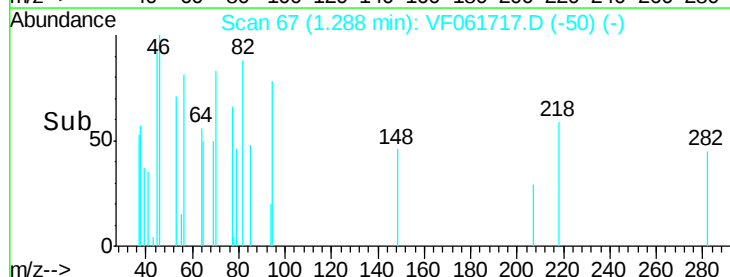
300

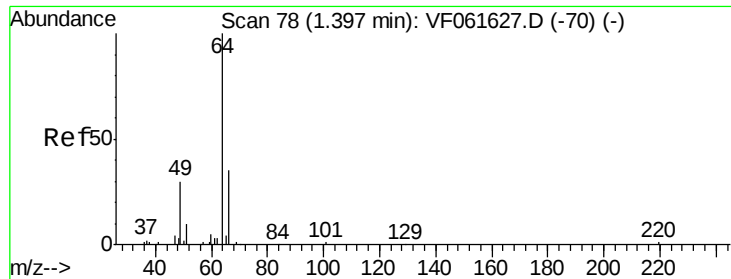
200

100

0

Time--> 1.28 1.30





#6

Chloroethane

Concen: 2.749 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.07 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

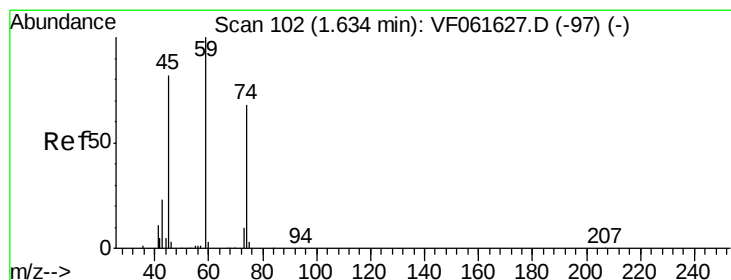
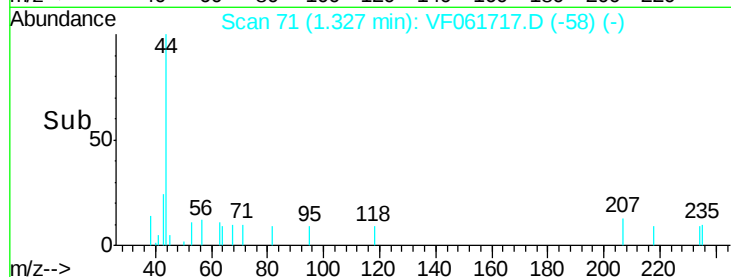
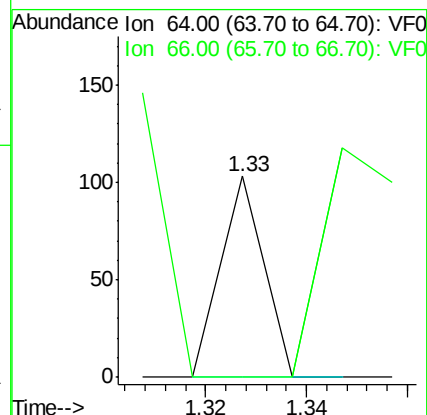
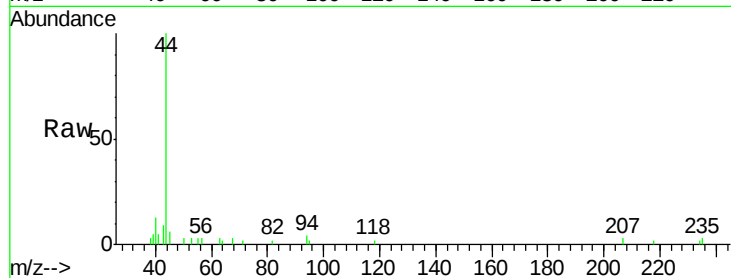
TP-22RE

Tot Ion: 64 Resp: 61

Ion Ratio Lower Upper

64 100

66 0.0 27.9 41.9#



#8

Diethyl Ether

Concen: 4.384 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF061717.D

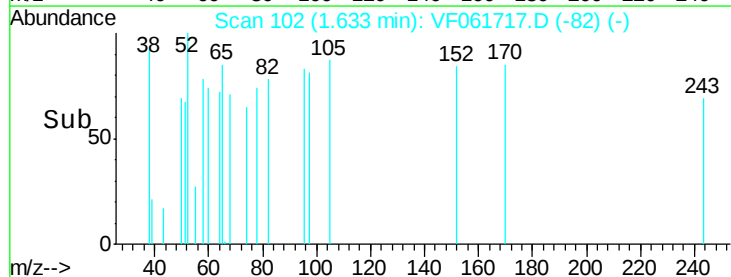
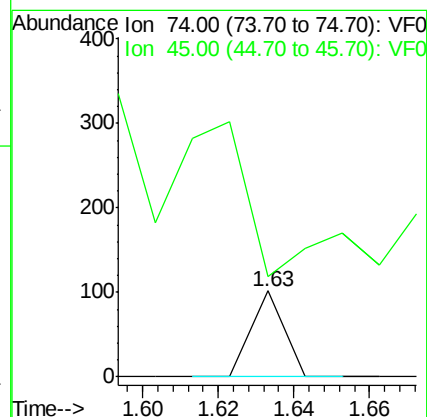
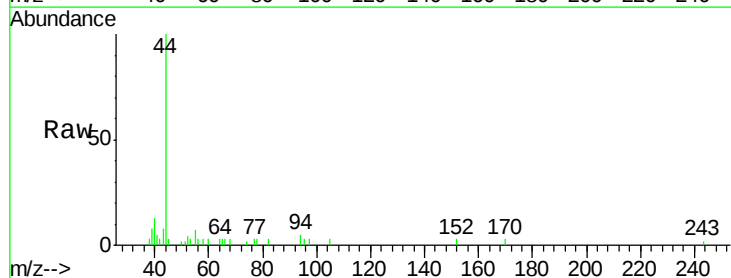
Acq: 22 Feb 2019 19:23

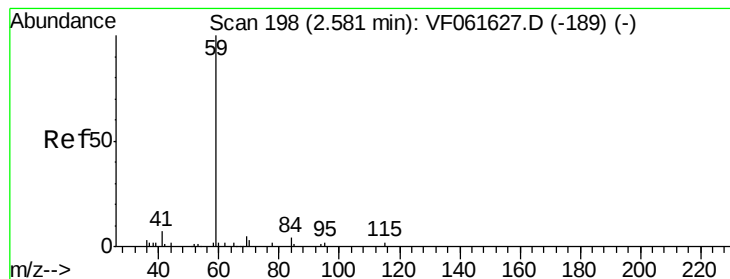
Tgt Ion: 74 Resp: 60

Ion Ratio Lower Upper

74 100

45 116.7 60.8 182.3



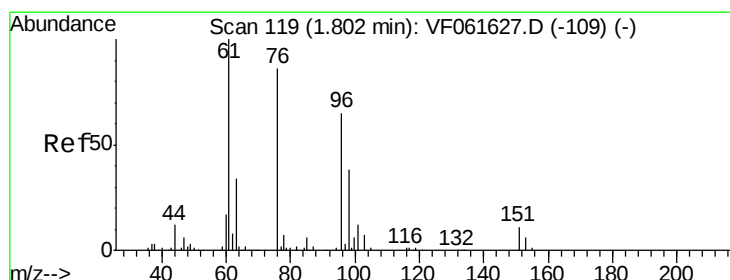
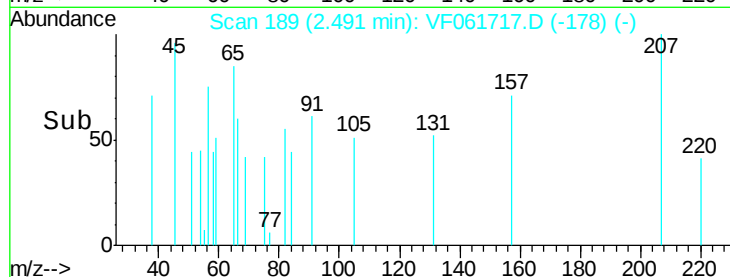
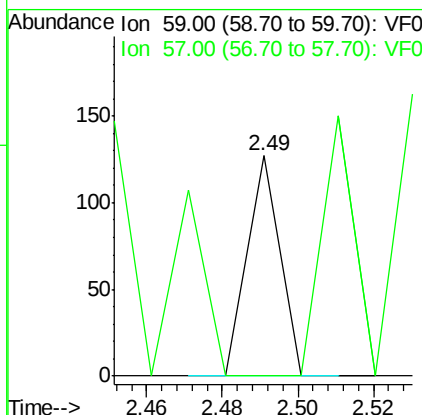
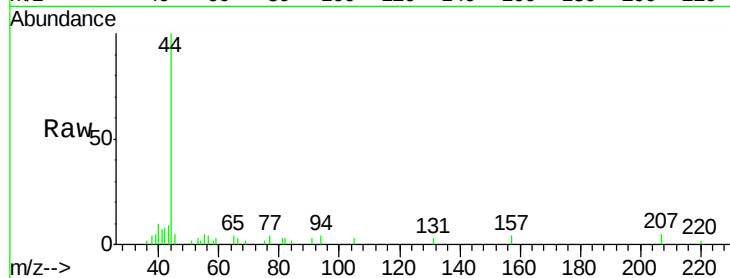


#11

Tert butyl alcohol  
 Concen: 43.961 ug/l  
 RT: 2.49 min Scan# 189  
 Delta R.T. -0.09 min  
 Lab File: VF061717.D  
 Acq: 22 Feb 2019 19:23

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 TP-22RE

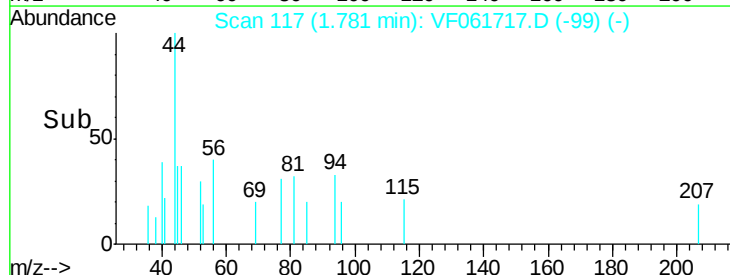
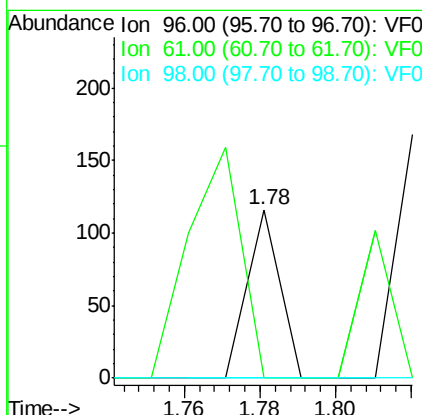
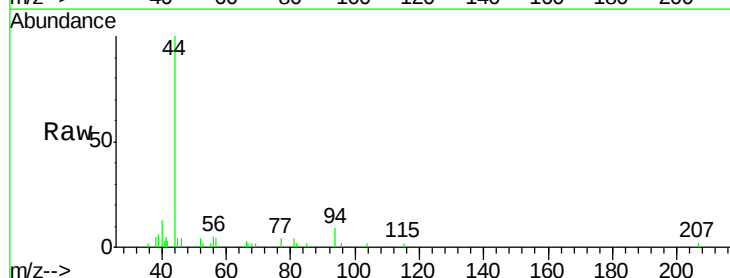
Tot Ion: 59 Resp: 75  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 12.5 18.7#

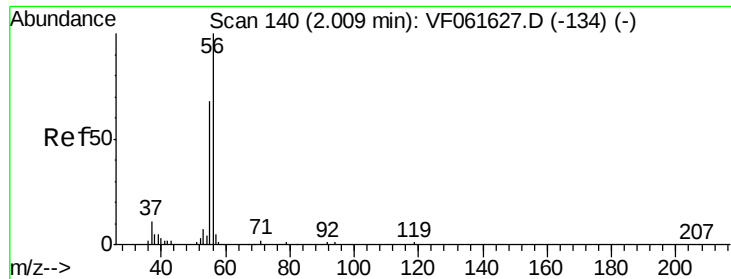


#12

1,1-Dichloroethene  
 Concen: 2.003 ug/l  
 RT: 1.78 min Scan# 117  
 Delta R.T. -0.02 min  
 Lab File: VF061717.D  
 Acq: 22 Feb 2019 19:23

Tgt Ion: 96 Resp: 69  
 Ion Ratio Lower Upper  
 96 100  
 61 0.0 122.6 184.0#  
 98 0.0 47.2 70.8#





#13

Acrolein

Concen: 146.906 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

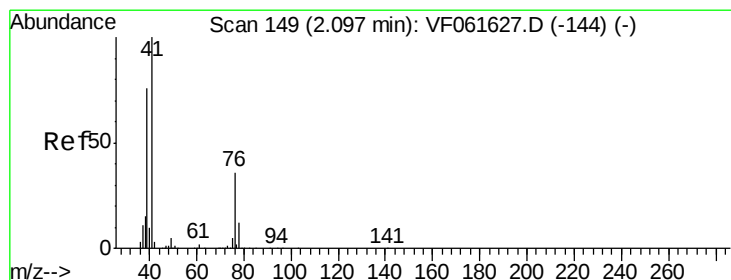
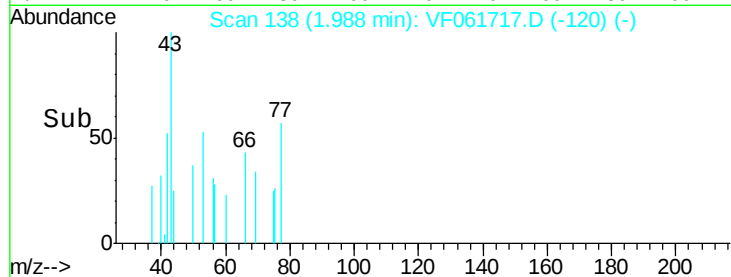
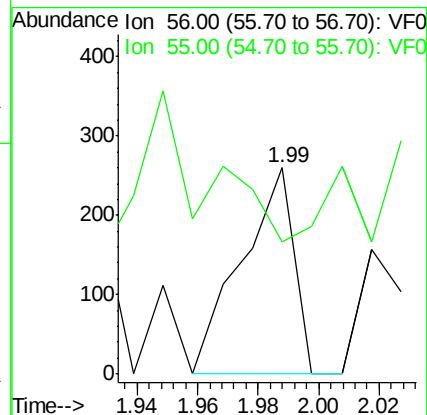
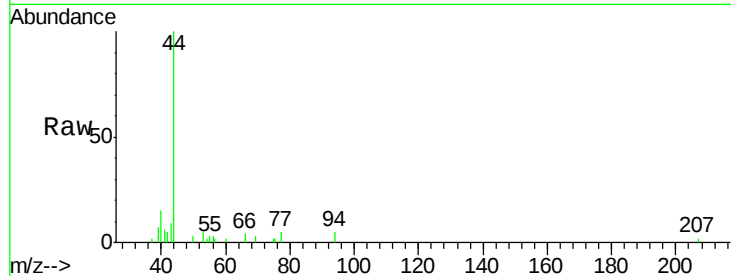
TP-22RE

Tot Ion: 56 Resp: 315

Ion Ratio Lower Upper

56 100

55 64.2 55.0 82.6



#14

Allyl chloride

Concen: 21.220 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.01 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

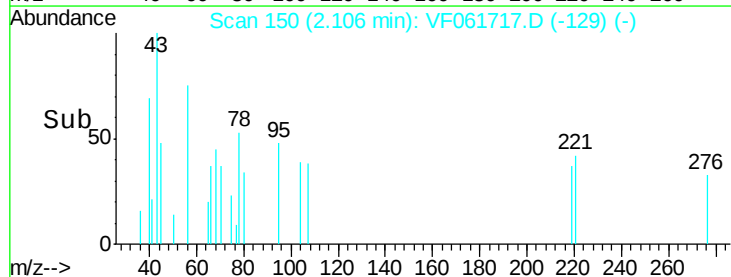
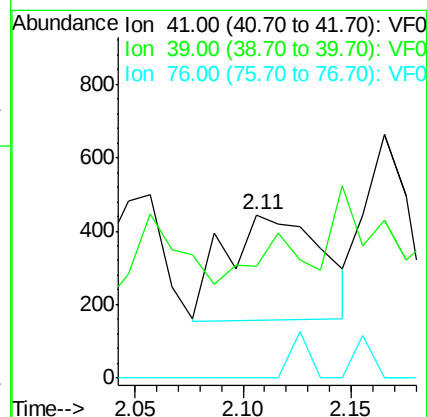
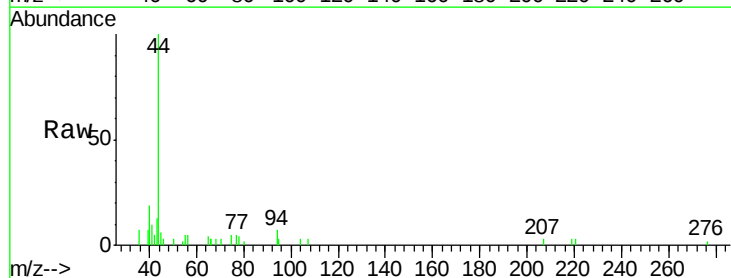
Tgt Ion: 41 Resp: 897

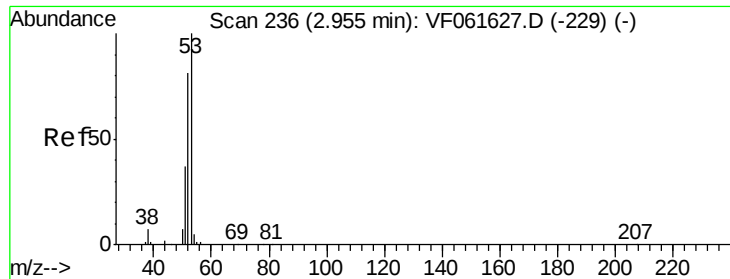
Ion Ratio Lower Upper

41 100

39 68.3 61.6 92.4

76 0.0 30.3 45.5#





#15

Acrylonitrile

Concen: 26.605 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

TP-22RE

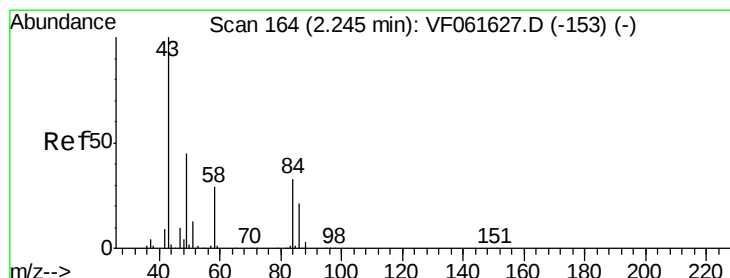
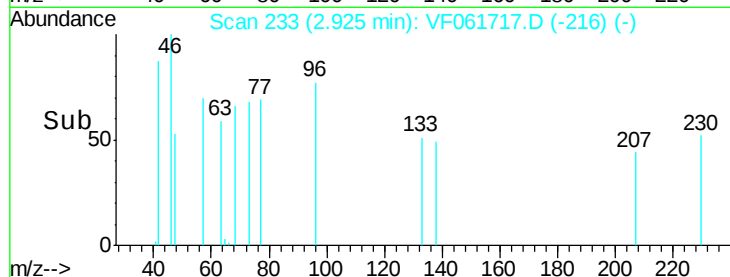
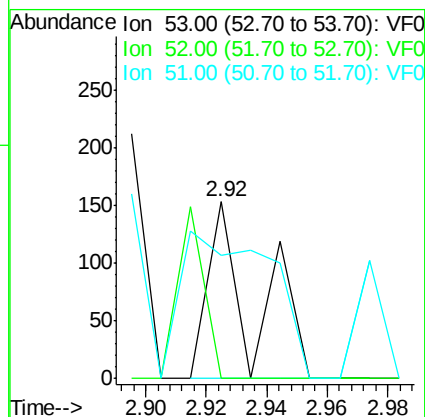
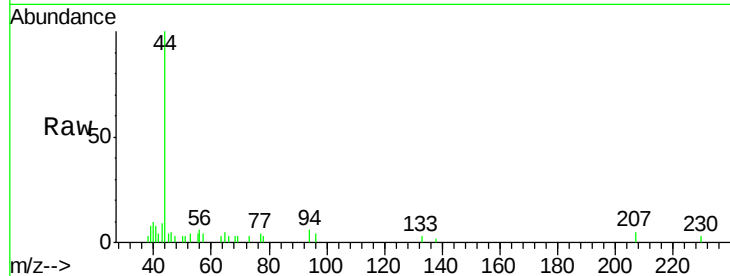
Tot Ion: 53 Resp: 161

Ion Ratio Lower Upper

53 100

52 0.0 64.6 97.0#

51 69.3 29.8 44.8#



#16

Acetone

Concen: 179.607 ug/l

RT: 2.26 min Scan# 166

Delta R.T. 0.02 min

Lab File: VF061717.D

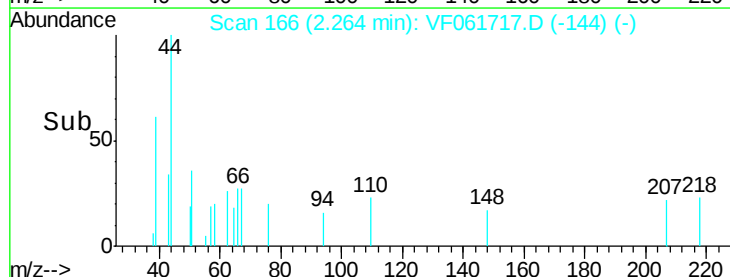
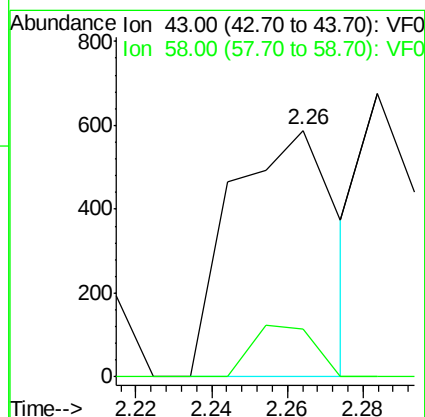
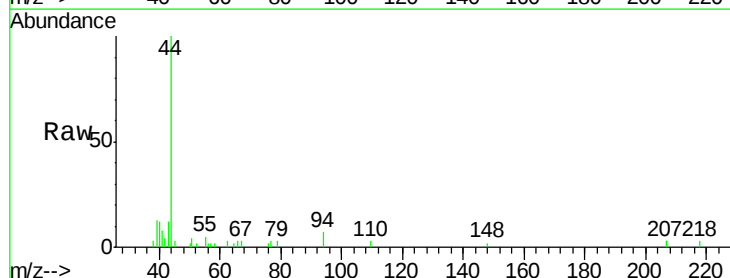
Acq: 22 Feb 2019 19:23

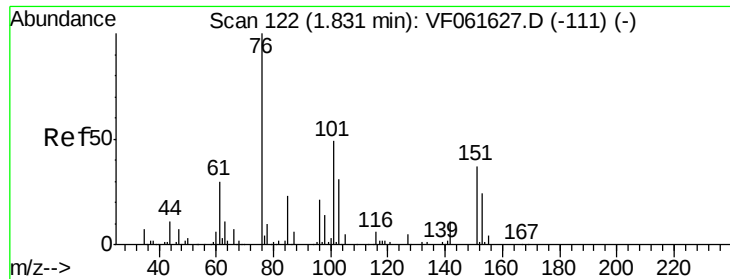
Tgt Ion: 43 Resp: 1136

Ion Ratio Lower Upper

43 100

58 19.4 22.9 34.3#





#17

Carbon Disulfide

Concen: 1.441 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

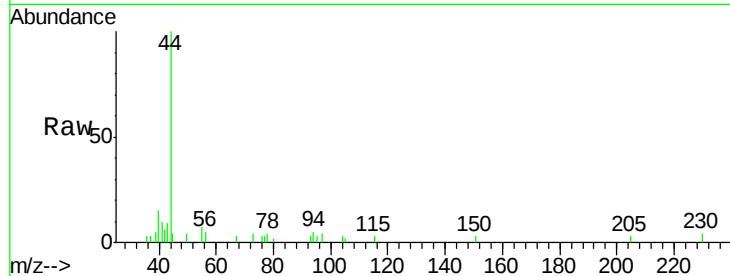
TP-22RE

Tot Ion: 76 Resp: 156

Ion Ratio Lower Upper

76 100

78 117.1 7.9 11.9#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

1.84

1.84

1.84

1.84

1.84

1.84

1.84

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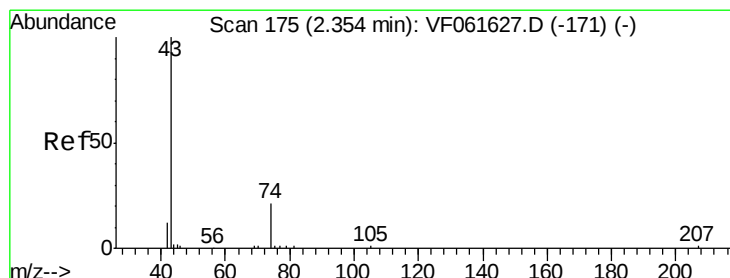
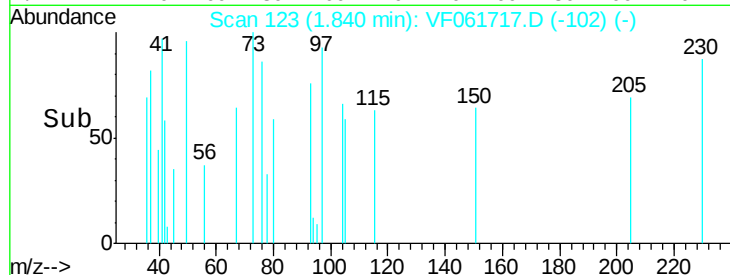
1.84

1.84

1.84

1.84

1.84



#18

Methyl Acetate

Concen: 18.809 ug/l

RT: 2.35 min Scan# 175

Delta R.T. -0.00 min

Lab File: VF061717.D

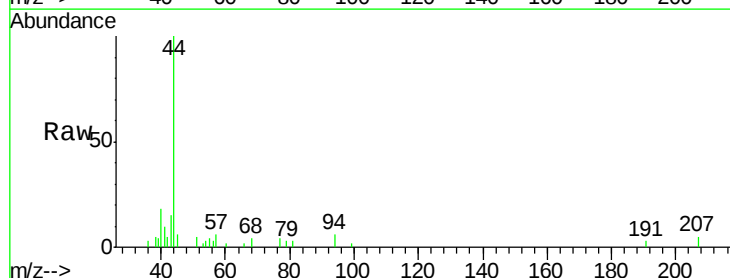
Acq: 22 Feb 2019 19:23

Tgt Ion: 43 Resp: 268

Ion Ratio Lower Upper

43 100

74 0.0 14.6 21.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.35

2.35

2.35

2.35

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2.35

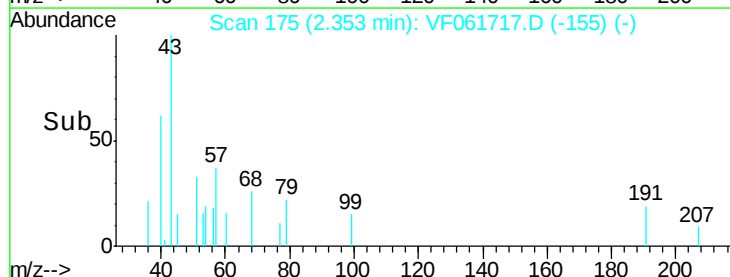
2.35

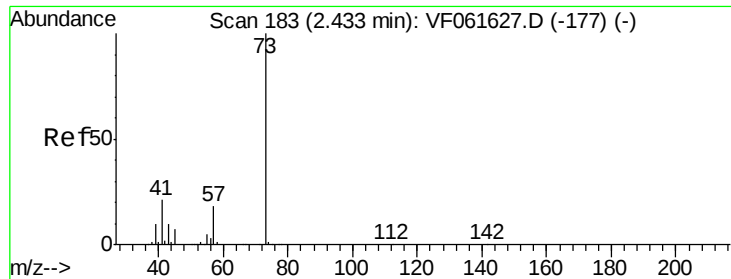
2.35

2.35

2.35

2.35



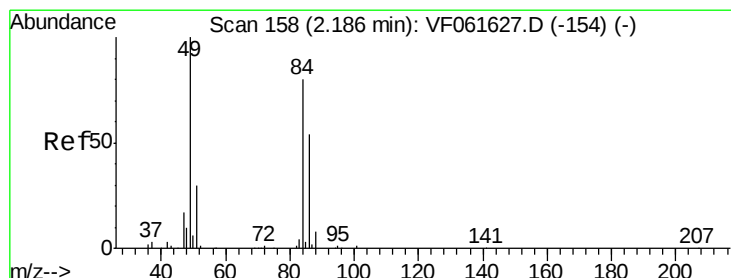
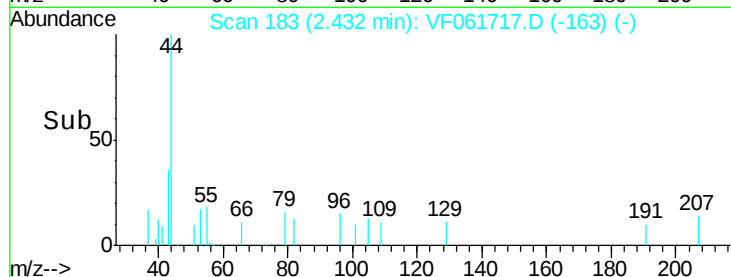
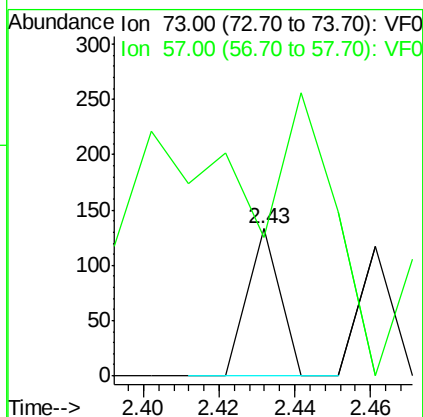
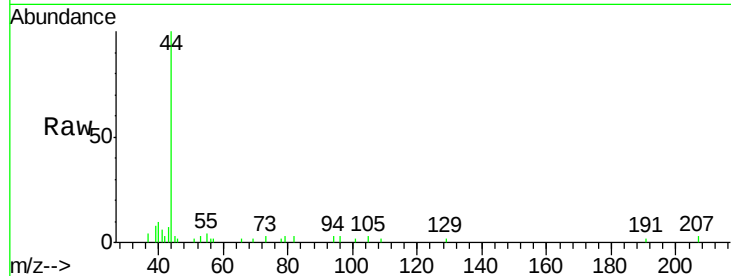


#19

Methyl tert-butyl Ether  
 Concen: 1.342 ug/l  
 RT: 2.43 min Scan# 183  
 Delta R.T. -0.00 min  
 Lab File: VF061717.D  
 Acq: 22 Feb 2019 19:23

Instrument :  
 MSVOA\_F  
 ClientSampleID :  
 TP-22RE

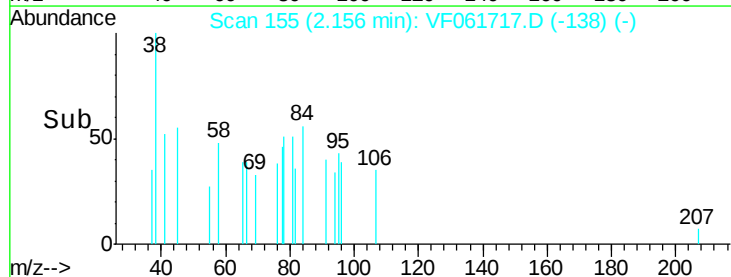
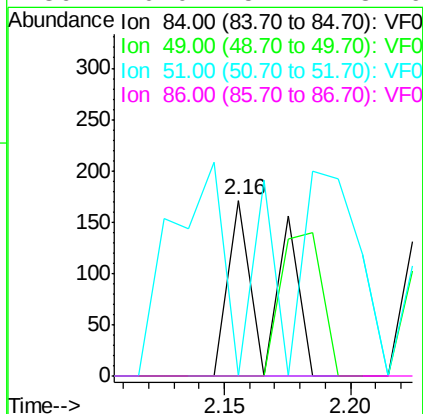
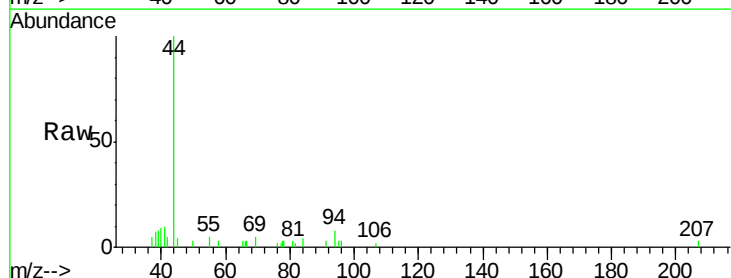
Tot Ion: 73 Resp: 79  
 Ion Ratio Lower Upper  
 73 100  
 57 94.0 15.8 23.8#

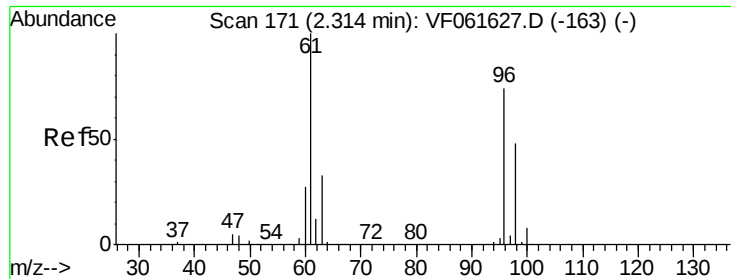


#20

Methylene Chloride  
 Concen: 3.342 ug/l  
 RT: 2.16 min Scan# 155  
 Delta R.T. -0.03 min  
 Lab File: VF061717.D  
 Acq: 22 Feb 2019 19:23

Tgt Ion: 84 Resp: 193  
 Ion Ratio Lower Upper  
 84 100  
 49 0.0 101.8 152.8#  
 51 0.0 31.1 46.7#  
 86 0.0 54.4 81.6#





#21

trans-1,2-Dichloroethene

Concen: 2.350 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

TP-22RE

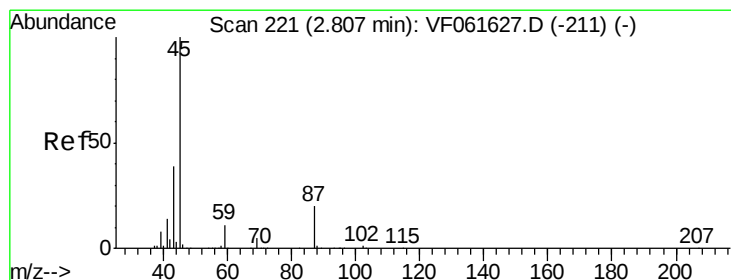
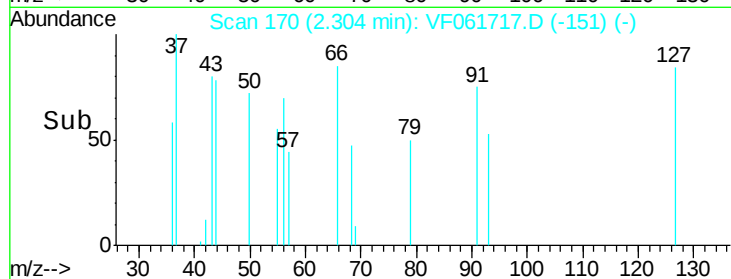
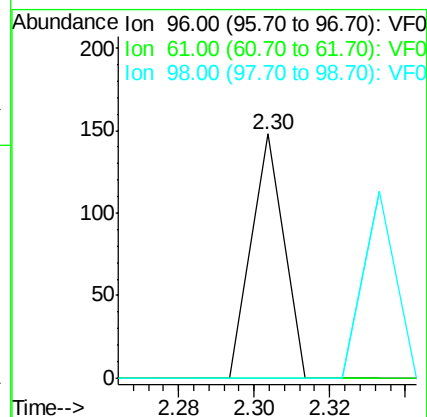
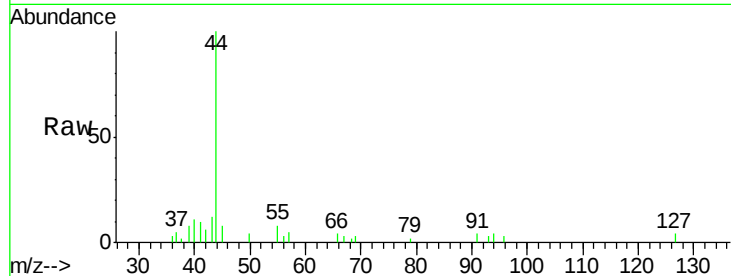
Tot Ion: 96 Resp: 88

Ion Ratio Lower Upper

96 100

61 0.0 108.2 162.4#

98 0.0 52.2 78.2#



#22

Diisopropyl ether

Concen: 6.337 ug/l

RT: 2.77 min Scan# 217

Delta R.T. -0.04 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Tgt Ion: 45 Resp: 643

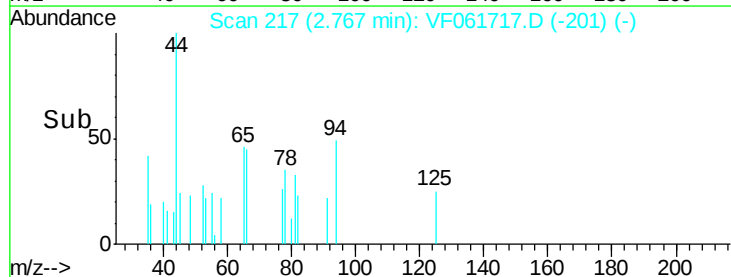
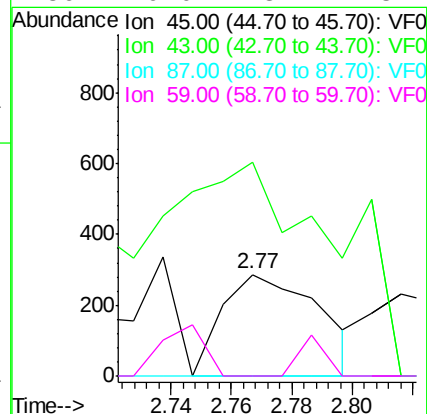
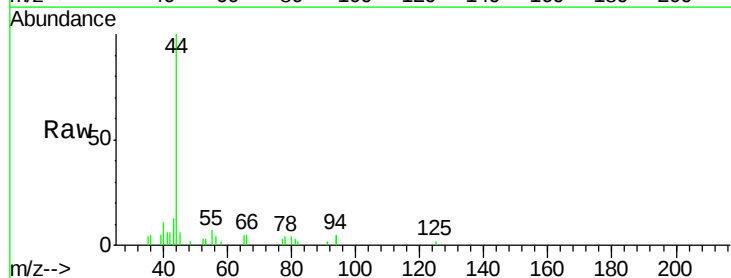
Ion Ratio Lower Upper

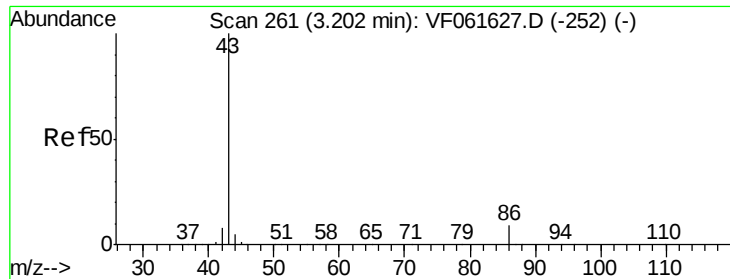
45 100

43 210.1 31.4 47.2#

87 0.0 16.3 24.5#

59 0.0 8.7 13.1#





#23

Vinyl Acetate

Concen: 3.309 ug/l

RT: 3.15 min Scan# 256

Delta R.T. -0.05 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

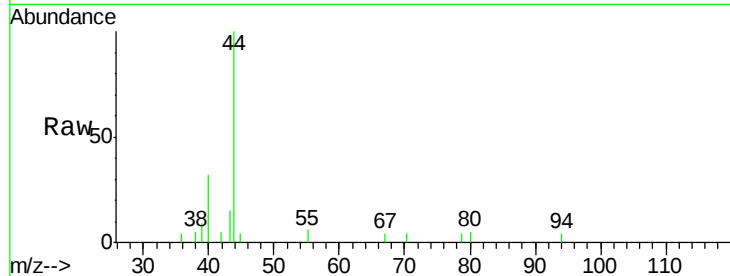
TP-22RE

Tot Ion: 43 Resp: 164

Ion Ratio Lower Upper

43 100

86 0.0 7.5 11.3#

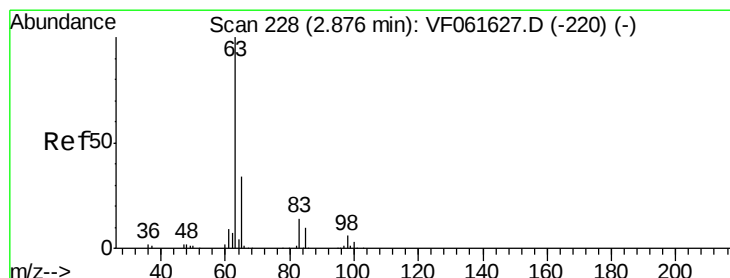
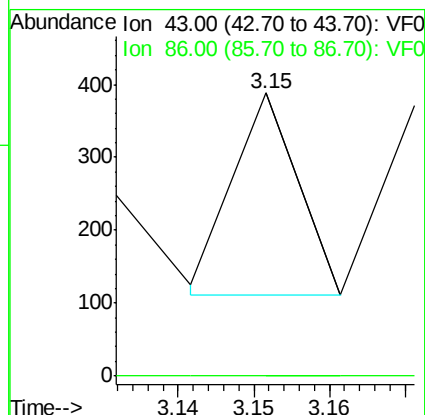
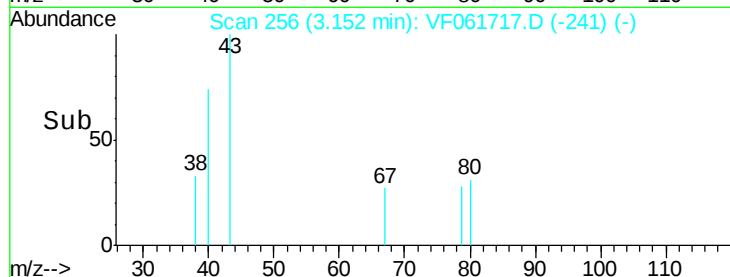


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.15

3.16



#24

1,1-Dichloroethane

Concen: 1.075 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.01 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

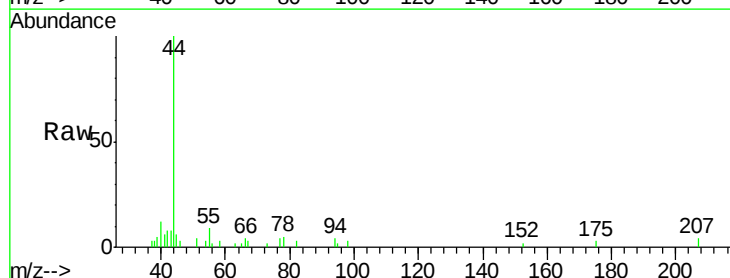
Tgt Ion: 63 Resp: 66

Ion Ratio Lower Upper

63 100

98 111.6 2.8 8.3#

100 0.0 1.8 5.4#



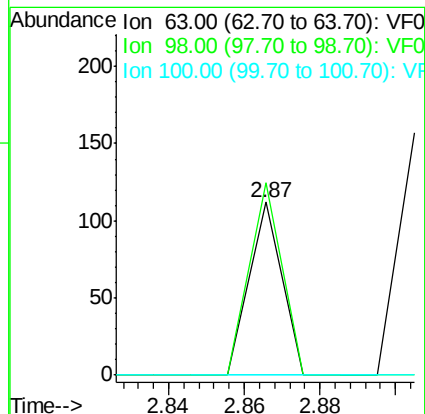
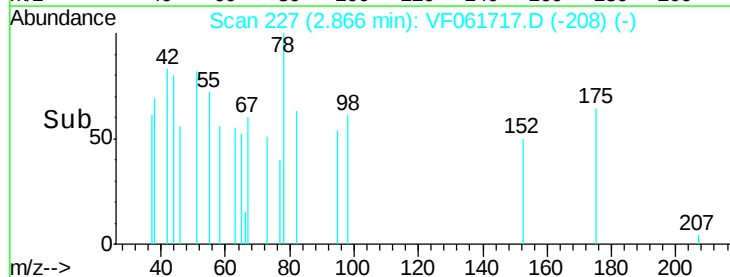
Abundance Ion 63.00 (62.70 to 63.70): VF0

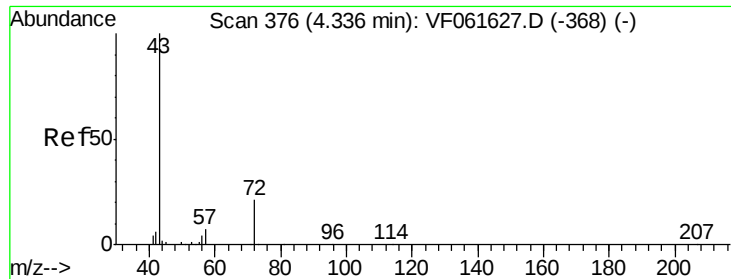
Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.87

2.88





#25

2-Butanone

Concen: 6.659 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.03 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

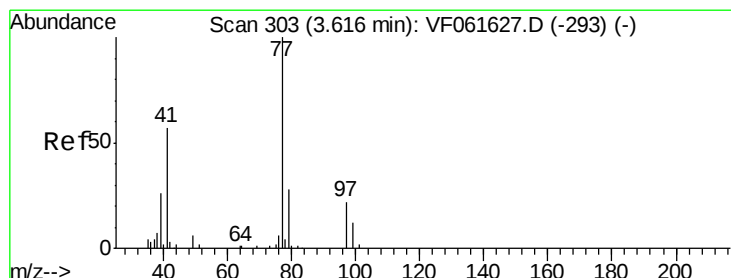
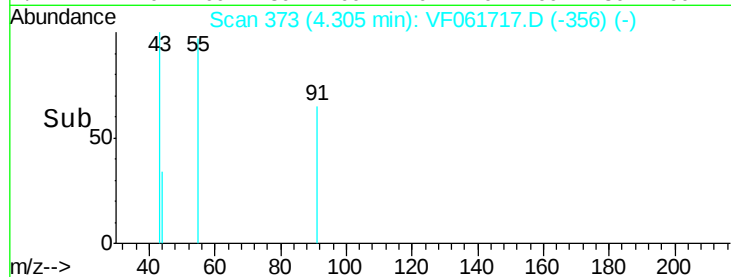
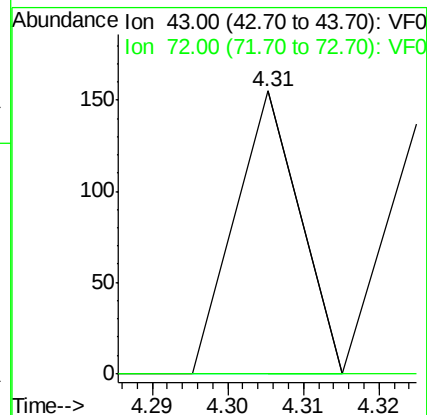
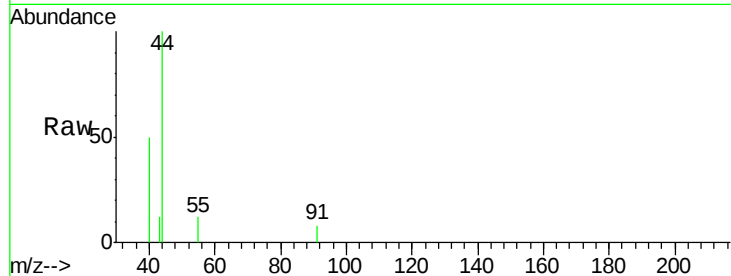
TP-22RE

Tot Ion: 43 Resp: 92

Ion Ratio Lower Upper

43 100

72 0.0 17.1 25.7#



#26

2,2-Dichloropropane

Concen: 2.307 ug/l

RT: 3.55 min Scan# 296

Delta R.T. -0.07 min

Lab File: VF061717.D

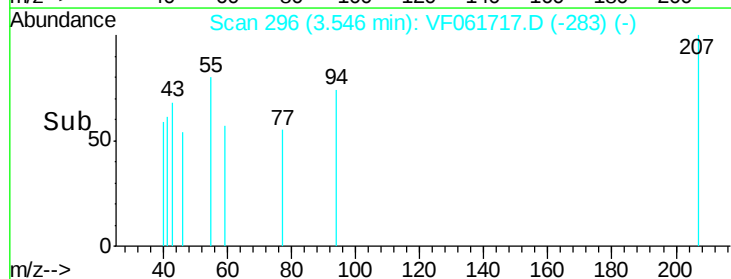
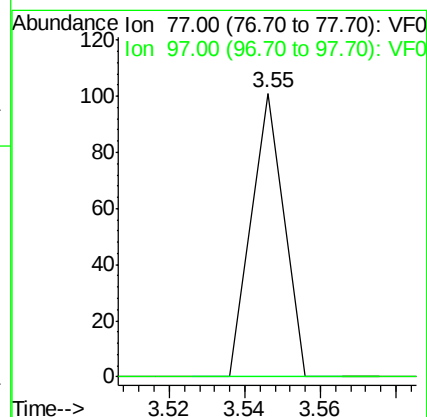
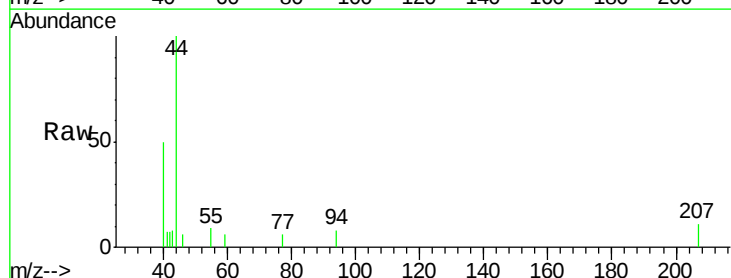
Acq: 22 Feb 2019 19:23

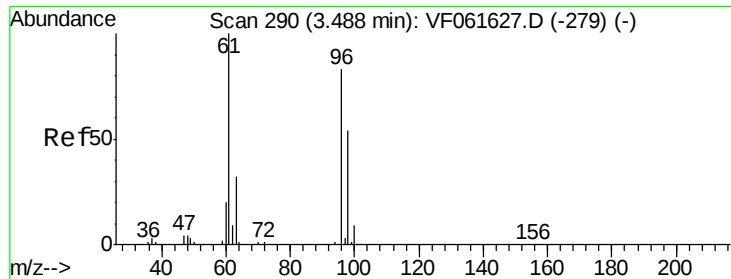
Tgt Ion: 77 Resp: 60

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



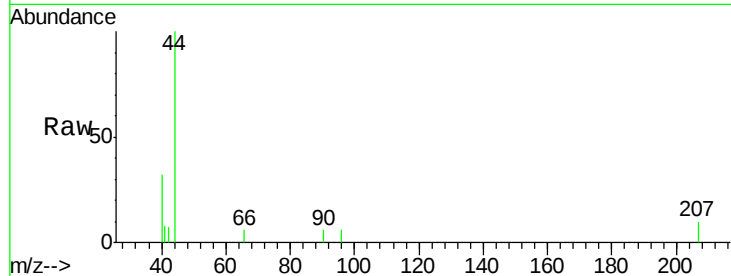


#27

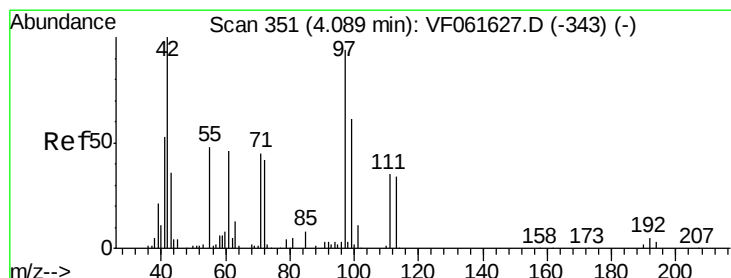
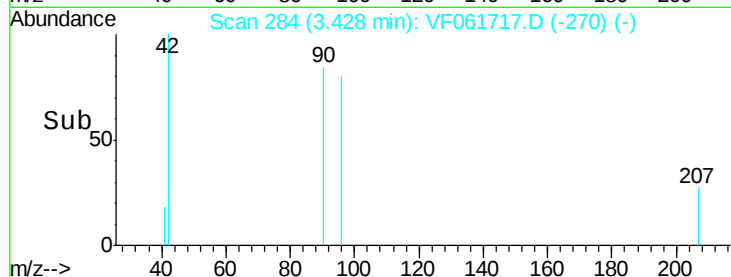
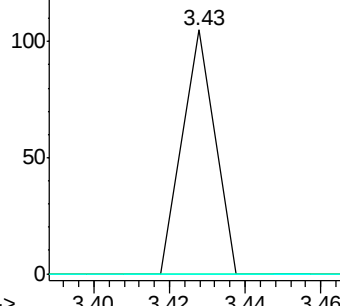
cis-1,2-Dichloroethene  
 Concen: 1.261 ug/l  
 RT: 3.43 min Scan# 284  
 Delta R.T. -0.06 min  
 Lab File: VF061717.D  
 Acq: 22 Feb 2019 19:23

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 TP-22RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 0.0   | 0.0   | 241.6 |
| 98      | 0.0   | 0.0   | 130.2 |



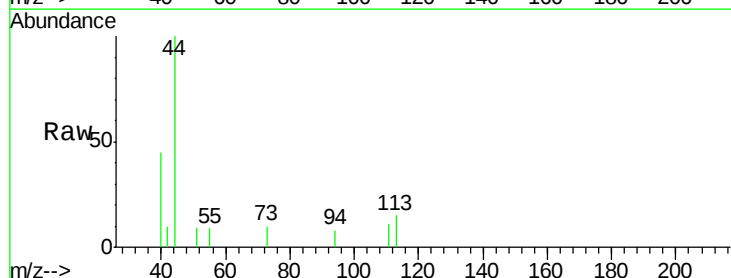
Abundance Ion 96.00 (95.70 to 96.70): VF0  
 Ion 61.00 (60.70 to 61.70): VF0  
 Ion 98.00 (97.70 to 98.70): VF0



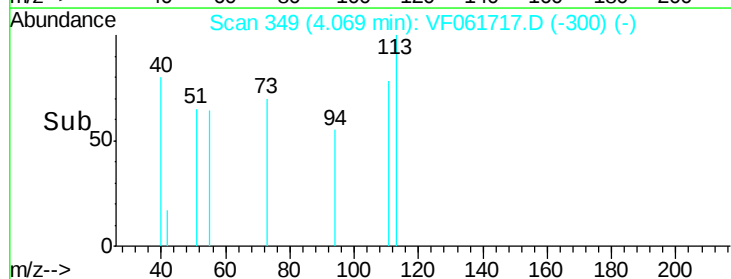
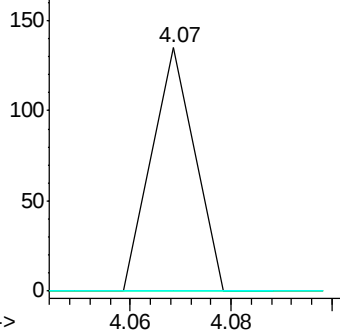
#29

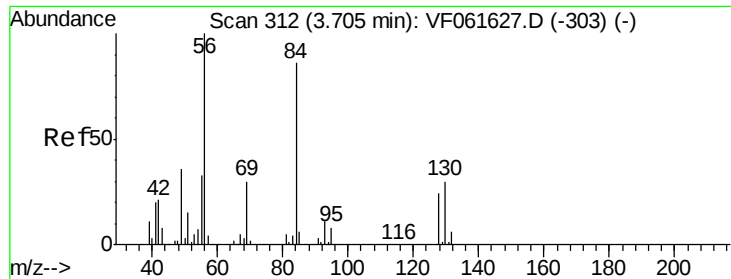
Tetrahydrofuran  
 Concen: 12.740 ug/l  
 RT: 4.07 min Scan# 349  
 Delta R.T. -0.02 min  
 Lab File: VF061717.D  
 Acq: 22 Feb 2019 19:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 0.0   | 35.2  | 52.8# |
| 71      | 0.0   | 32.9  | 49.3# |



Abundance Ion 42.00 (41.70 to 42.70): VF0  
 Ion 72.00 (71.70 to 72.70): VF0  
 Ion 71.00 (70.70 to 71.70): VF0

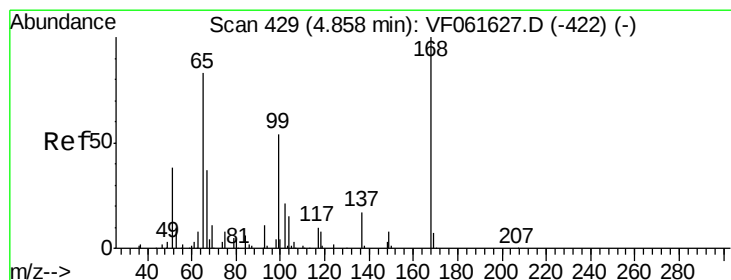
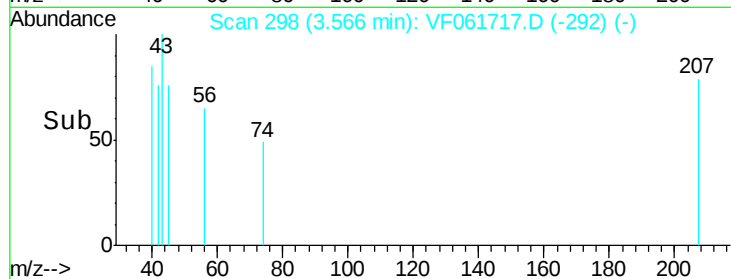
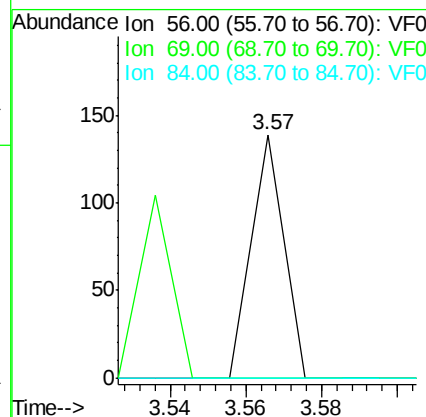
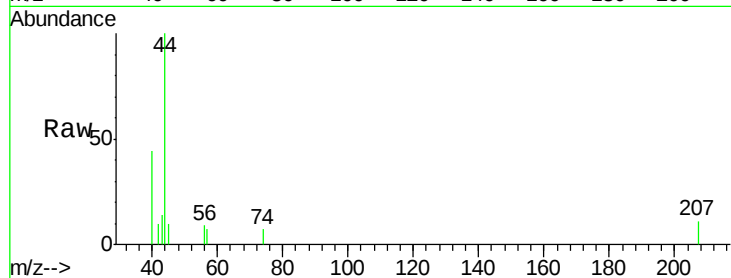




#31  
Cvclohexane  
Concen: 1.234 ug/l  
RT: 3.57 min Scan# 298  
Delta R.T. -0.14 min  
Lab File: VF061717.D  
Acq: 22 Feb 2019 19:23

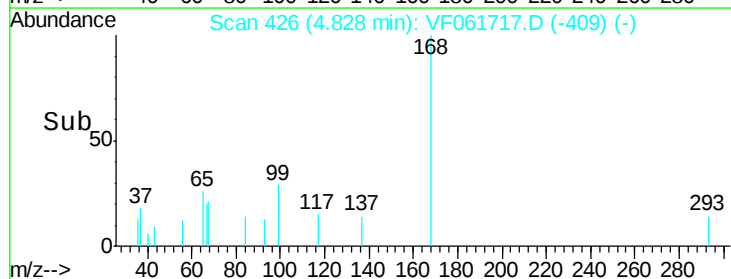
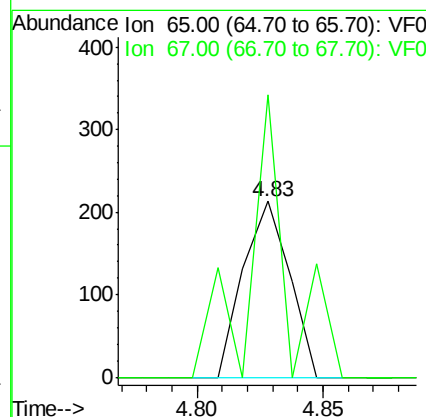
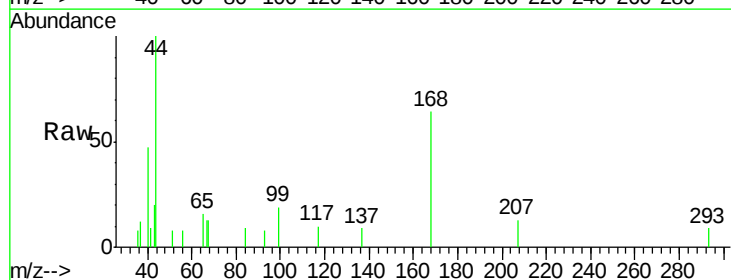
Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-22RE

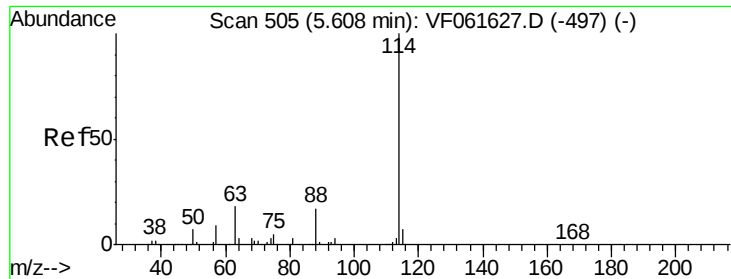
Tot Ion: 56 Resp: 82  
Ion Ratio Lower Upper  
56 100  
69 0.0 23.8 35.8#  
84 0.0 68.6 103.0#



#33  
1,2-Dichloroethane-d4  
Concen: 9.227 ug/l  
RT: 4.83 min Scan# 426  
Delta R.T. -0.03 min  
Lab File: VF061717.D  
Acq: 22 Feb 2019 19:23

Tgt Ion: 65 Resp: 272  
Ion Ratio Lower Upper  
65 100  
67 161.0 0.0 104.0#





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.03 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

TP-22RE

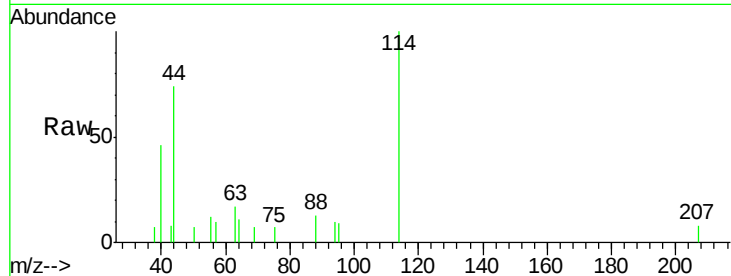
Tot Ion:114 Resp: 5240

Ion Ratio Lower Upper

114 100

63 16.8 0.0 36.6

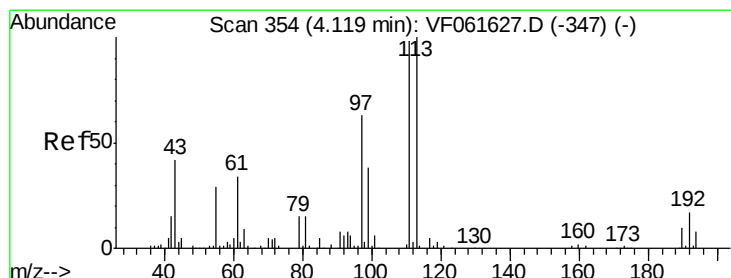
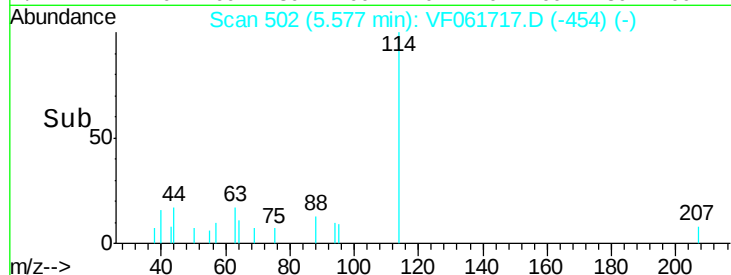
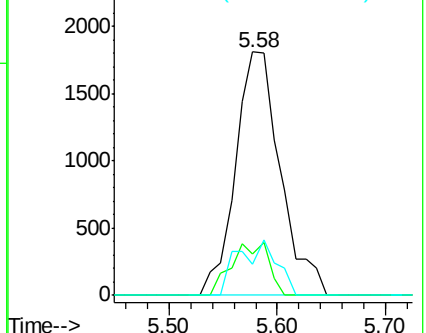
88 13.0 0.0 34.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 20.919 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

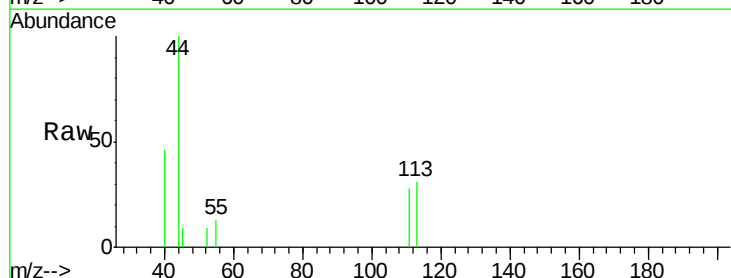
Tgt Ion:113 Resp: 814

Ion Ratio Lower Upper

113 100

111 90.8 78.8 118.2

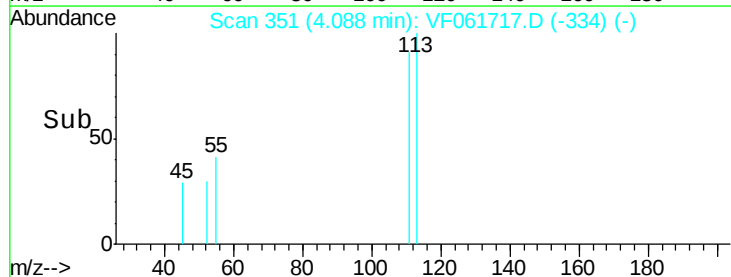
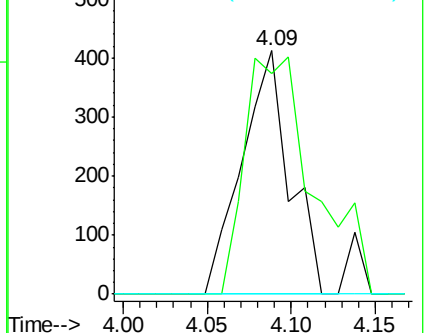
192 0.0 13.4 20.0#

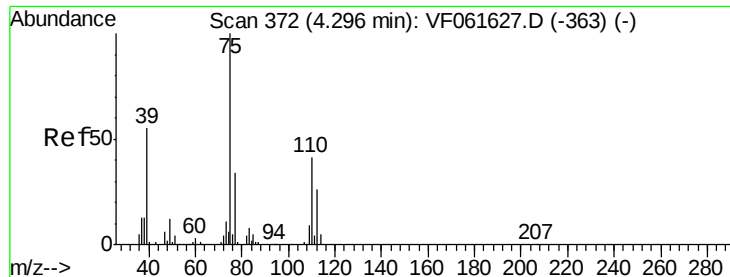


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 1.214 ug/l

RT: 4.22 min Scan# 364

Delta R.T. -0.08 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

TP-22RE

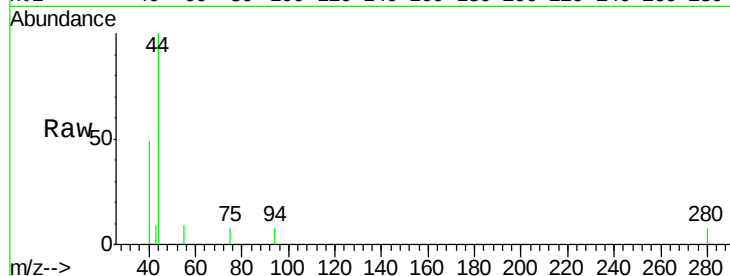
Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

110 0.0 20.5 61.6#

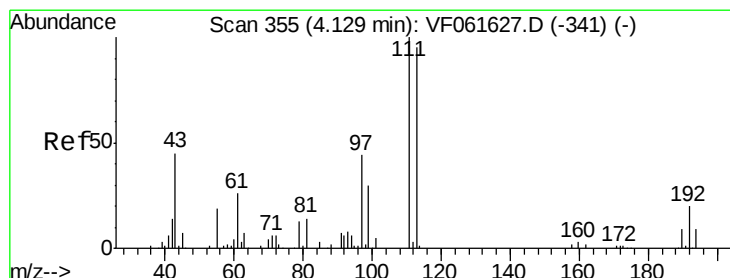
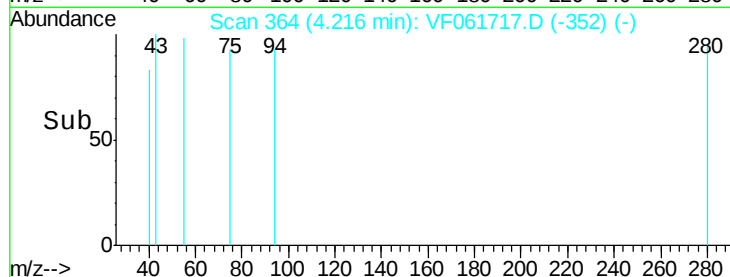
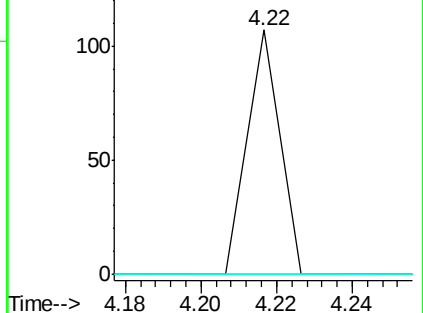
77 0.0 27.0 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 2.903 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.02 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

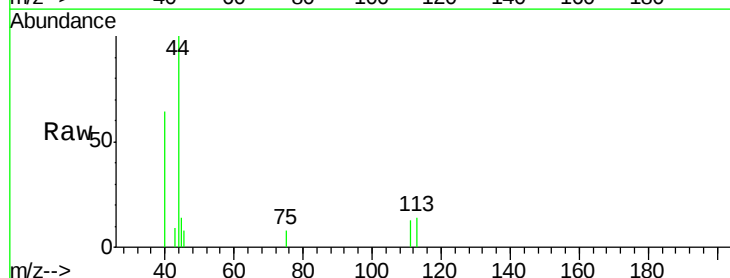
Tgt Ion: 43 Resp: 70

Ion Ratio Lower Upper

43 100

61 0.0 45.7 68.5#

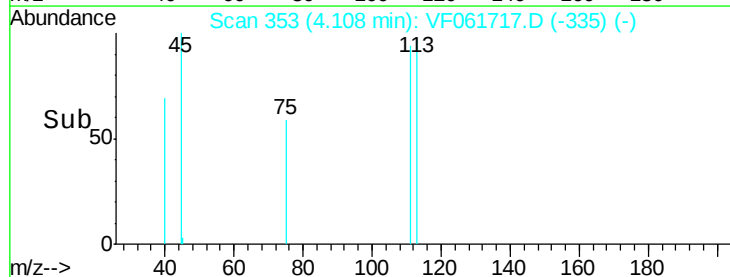
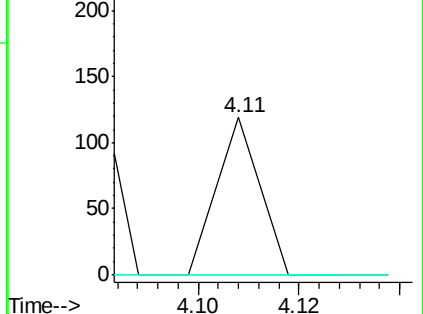
70 0.0 8.5 12.7#

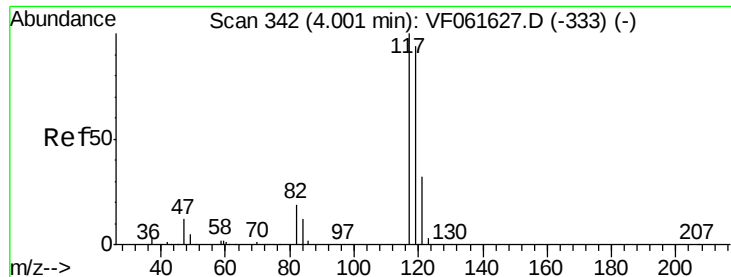


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: 1.869 ug/l

RT: 3.90 min Scan# 332

Delta R.T. -0.10 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

TP-22RE

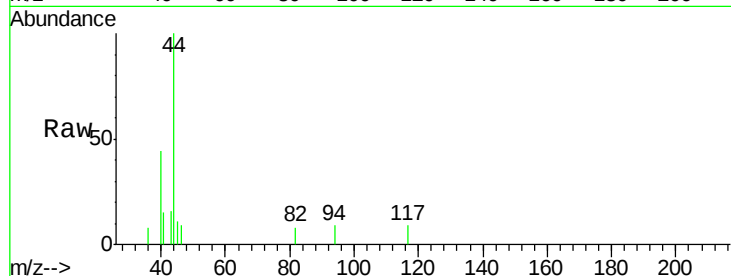
Tot Ion:117 Resp: 67

Ion Ratio Lower Upper

117 100

119 0.0 75.6 113.4#

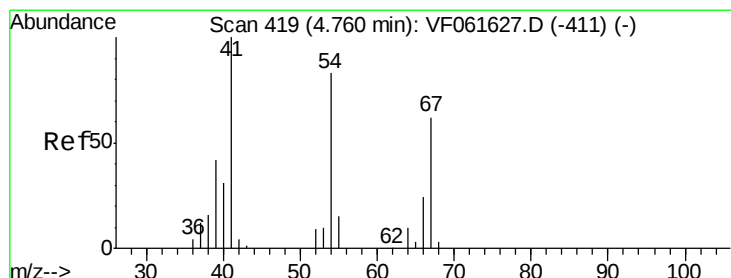
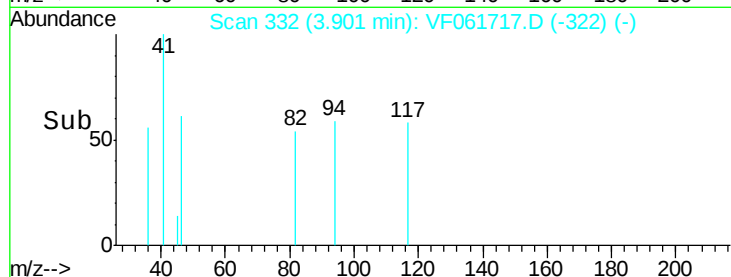
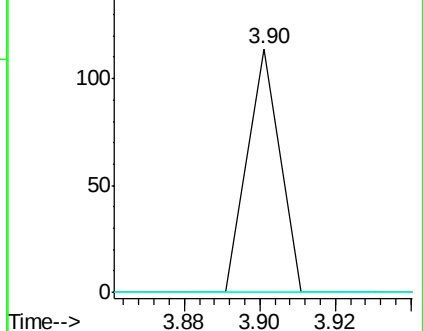
121 0.0 25.2 37.8#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#41

Methacrylonitrile

Concen: 15.004 ug/l

RT: 4.74 min Scan# 417

Delta R.T. -0.02 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Tgt Ion: 41 Resp: 185

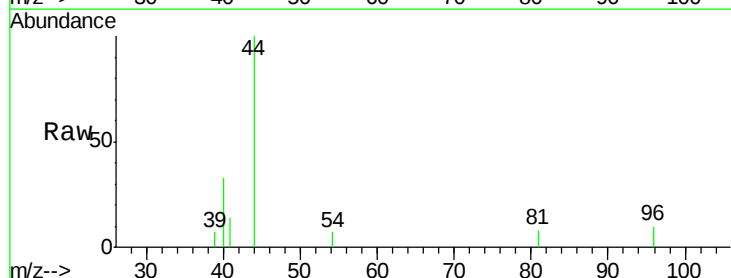
Ion Ratio Lower Upper

41 100

39 51.7 45.3 67.9

67 0.0 49.3 73.9#

52 0.0 32.6 49.0#

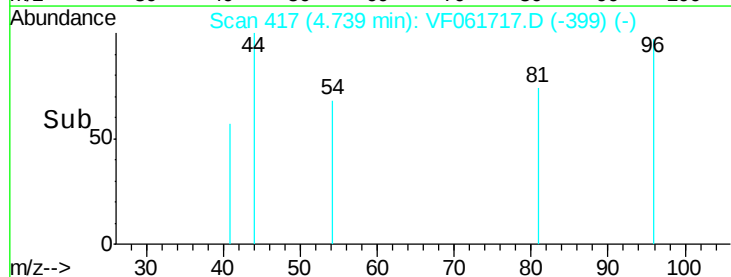
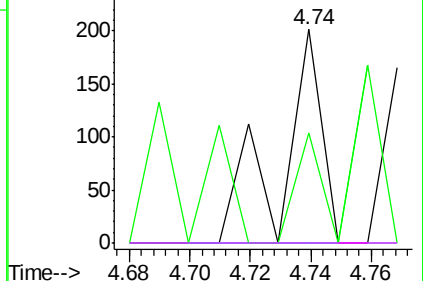


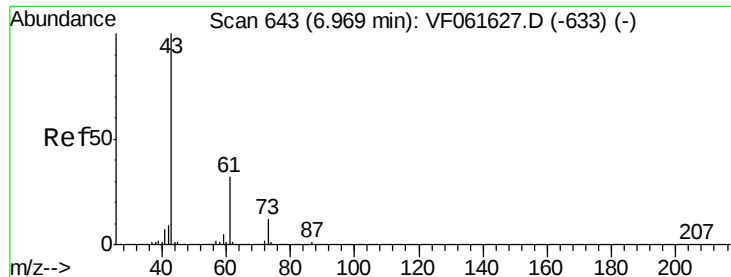
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#43

Isopropyl Acetate

Concen: 2.488 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.03 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

TP-22RE

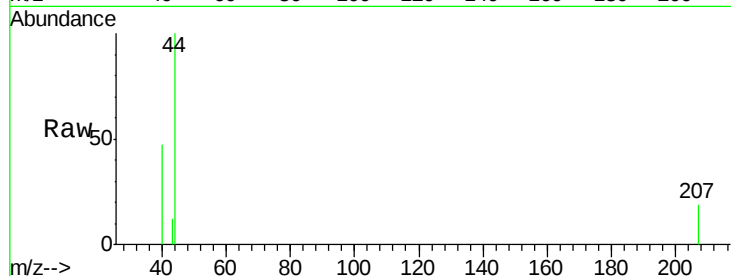
Tot Ion: 43 Resp: 71

Ion Ratio Lower Upper

43 100

61 0.0 25.8 38.6#

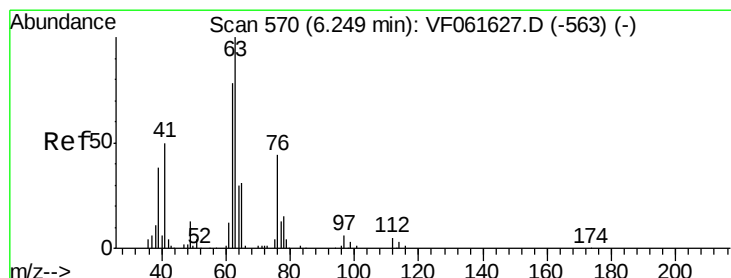
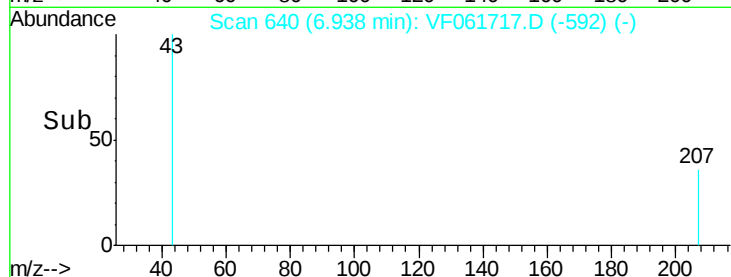
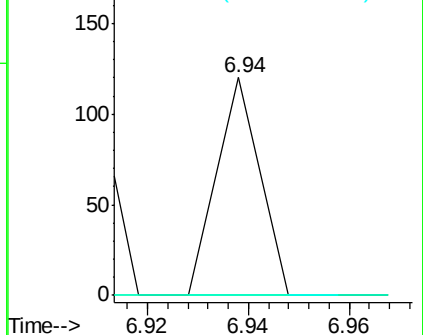
87 0.0 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#45

1,2-Dichloropropane

Concen: 1.889 ug/l

RT: 6.26 min Scan# 571

Delta R.T. 0.01 min

Lab File: VF061717.D

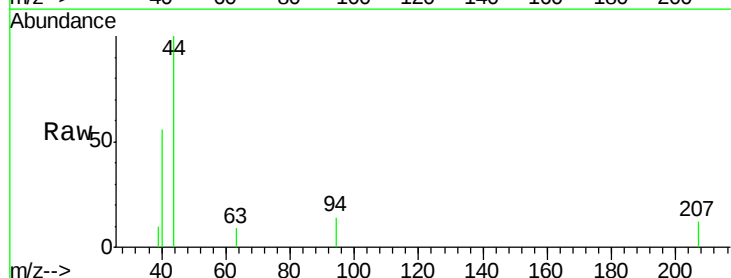
Acq: 22 Feb 2019 19:23

Tgt Ion: 63 Resp: 62

Ion Ratio Lower Upper

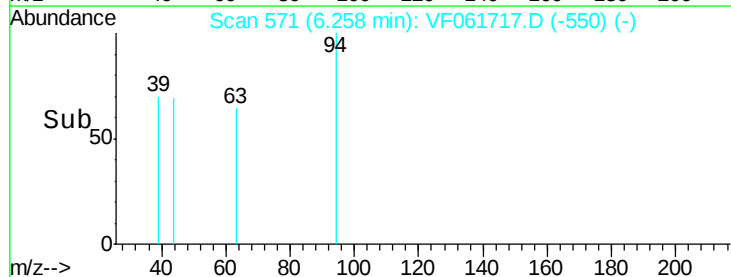
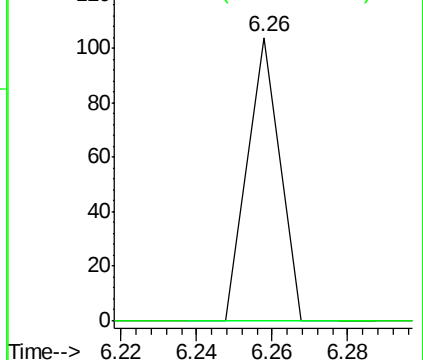
63 100

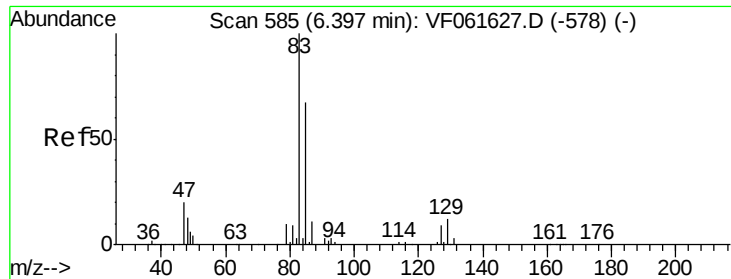
65 0.0 24.9 37.3#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0





#47

Bromodichloromethane

Concen: 1.356 ug/l

RT: 6.27 min Scan# 572

Delta R.T. -0.13 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampled :

TP-22RE

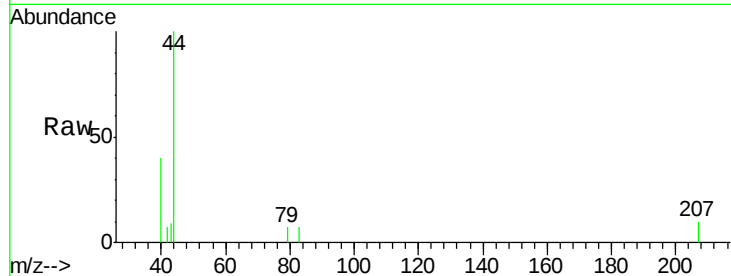
Tot Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

85 0.0 53.4 80.2#

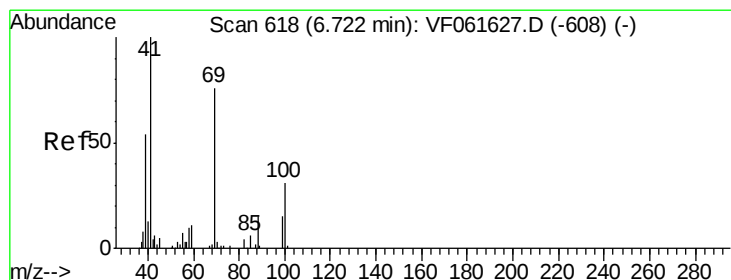
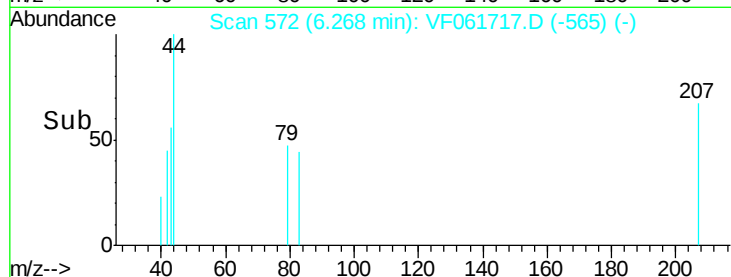
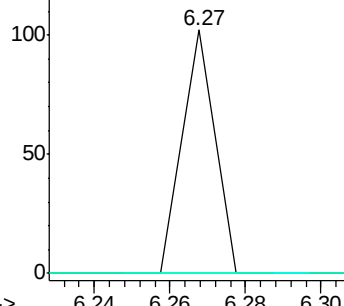
127 0.0 7.5 11.3#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 8.152 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.03 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

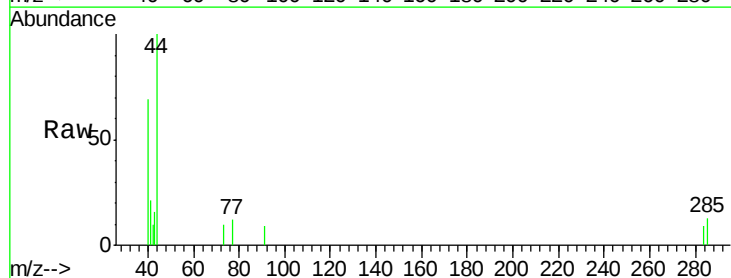
Tgt Ion: 41 Resp: 140

Ion Ratio Lower Upper

41 100

69 0.0 60.4 90.6#

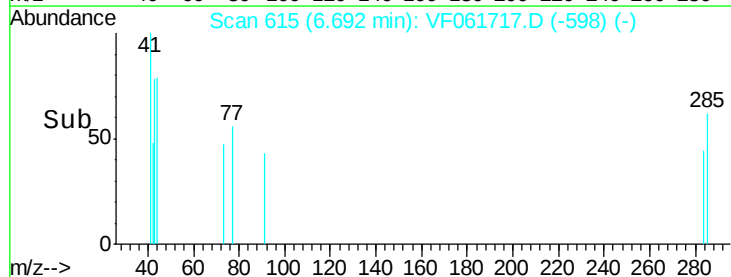
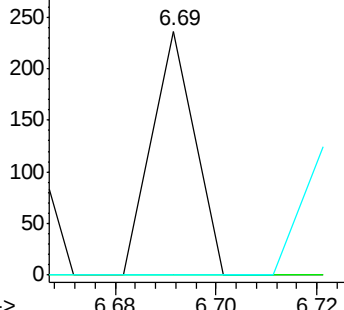
39 0.0 43.7 65.5#

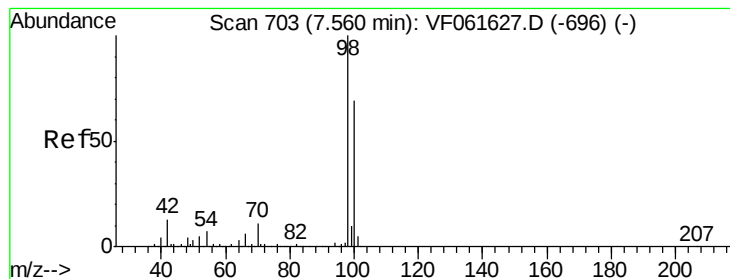


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#50

Toluene-d8

Concen: 34.024 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

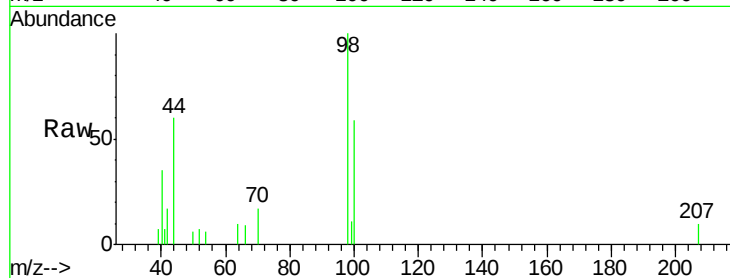
TP-22RE

Tot Ion: 98 Resp: 3806

Ion Ratio Lower Upper

98 100

100 59.3 55.4 83.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.54

1500

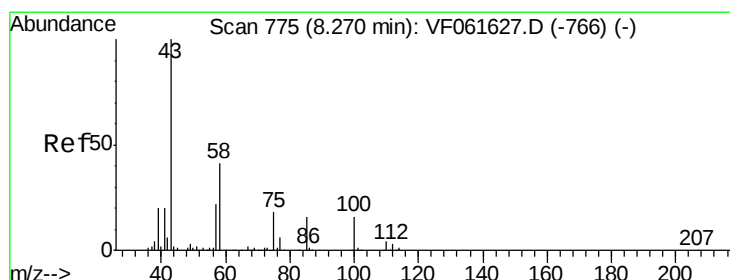
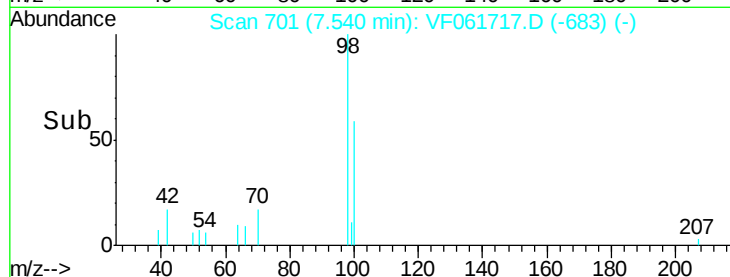
1000

500

0

Time-->

7.45 7.50 7.55 7.60



#51

4-Methyl-2-Pentanone

Concen: 3.188 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061717.D

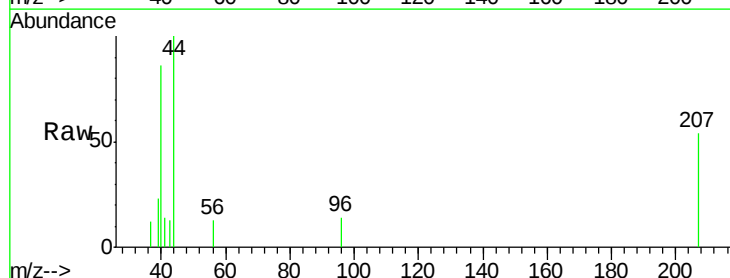
Acq: 22 Feb 2019 19:23

Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150

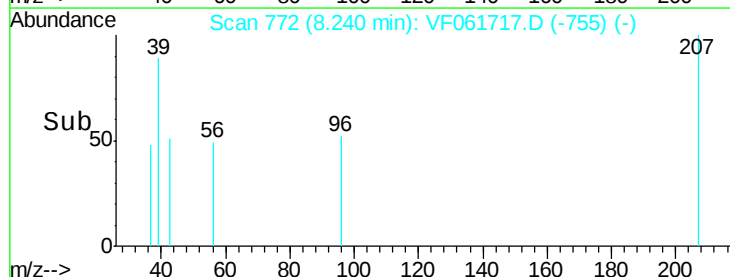
100

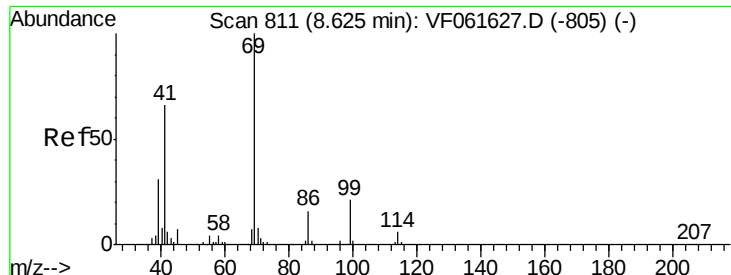
50

0

Time-->

8.22 8.23 8.24 8.25





#56

Ethyl methacrylate

Concen: 2.636 ug/l

RT: 8.66 min Scan# 815

Delta R.T. 0.04 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampled :

TP-22RE

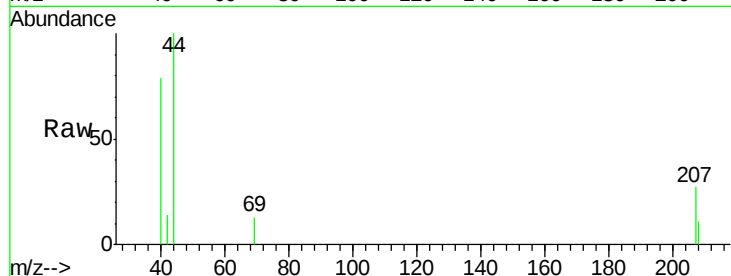
Tot Ion: 69 Resp: 71

Ion Ratio Lower Upper

69 100

41 0.0 52.9 79.3#

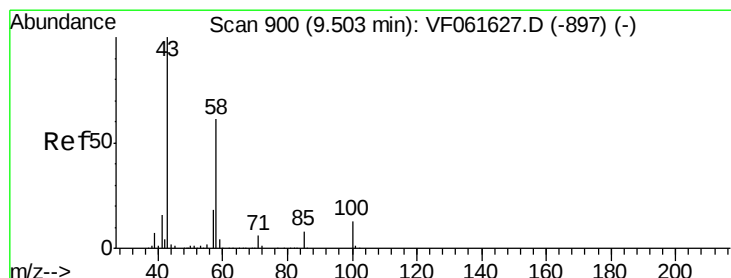
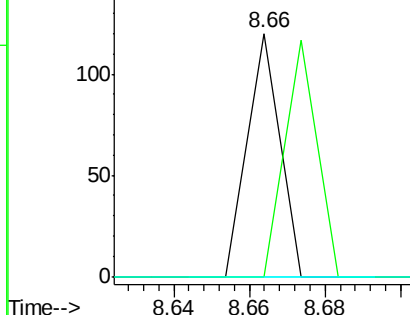
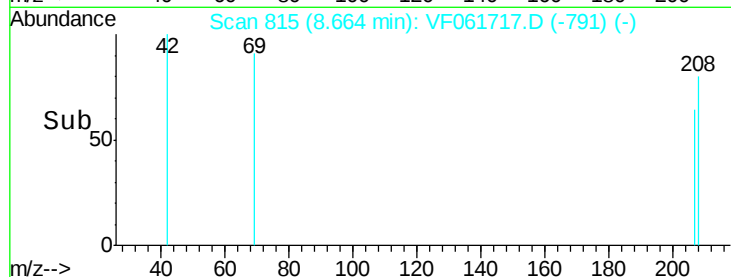
39 0.0 24.5 36.7#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#59

2-Hexanone

Concen: 4.407 ug/l

RT: 9.45 min Scan# 895

Delta R.T. -0.05 min

Lab File: VF061717.D

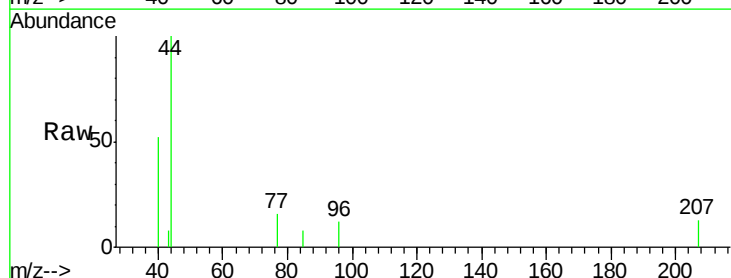
Acq: 22 Feb 2019 19:23

Tgt Ion: 43 Resp: 63

Ion Ratio Lower Upper

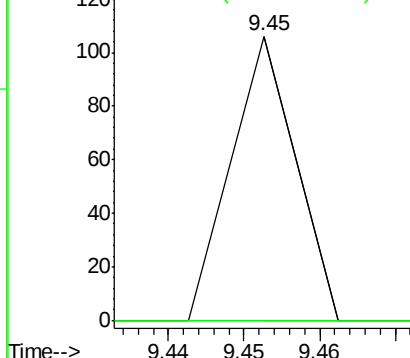
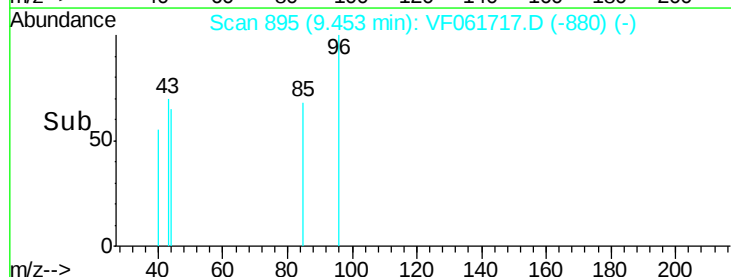
43 100

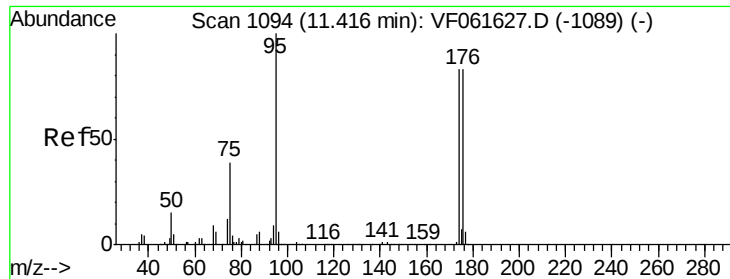
58 0.0 28.5 85.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 20.503 ug/l

RT: 11.40 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

TP-22RE

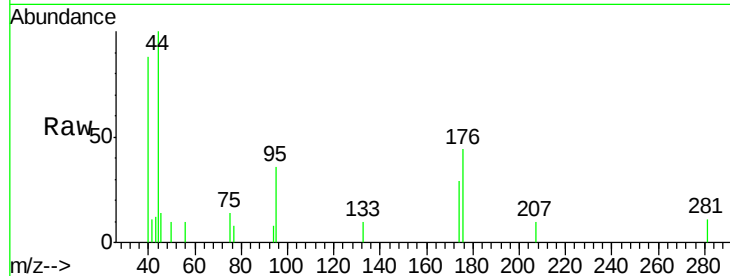
Tot Ion: 95 Resp: 928

Ion Ratio Lower Upper

95 100

174 79.1 0.0 165.8

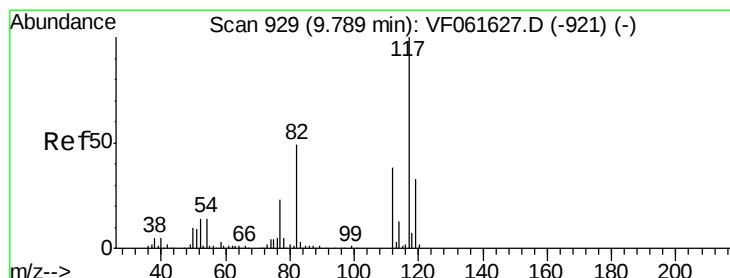
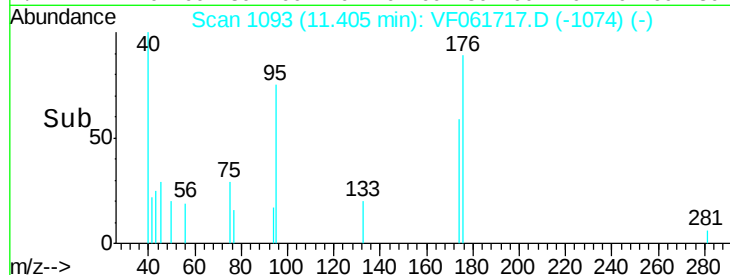
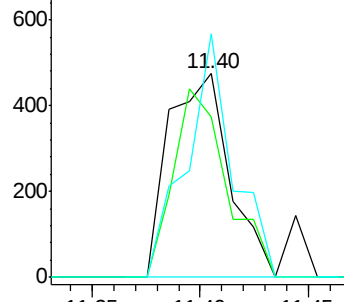
176 119.6 0.0 167.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.03 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

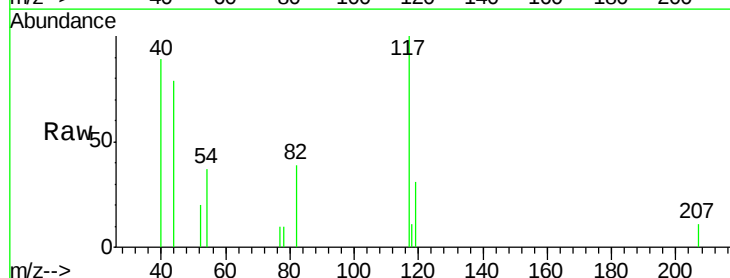
Tgt Ion: 117 Resp: 3065

Ion Ratio Lower Upper

117 100

82 39.1 39.3 58.9#

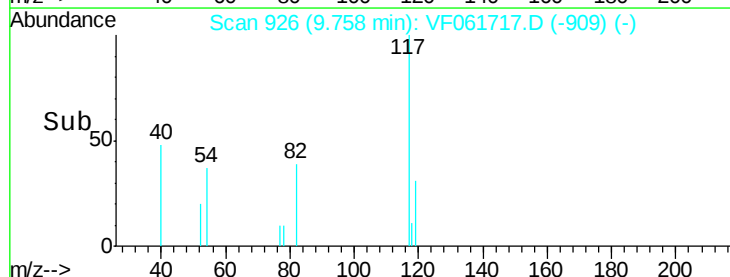
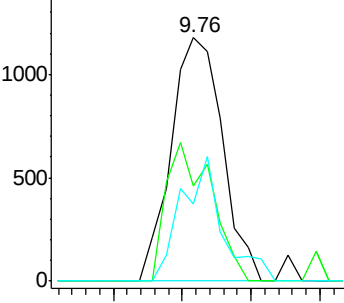
119 31.5 26.6 40.0

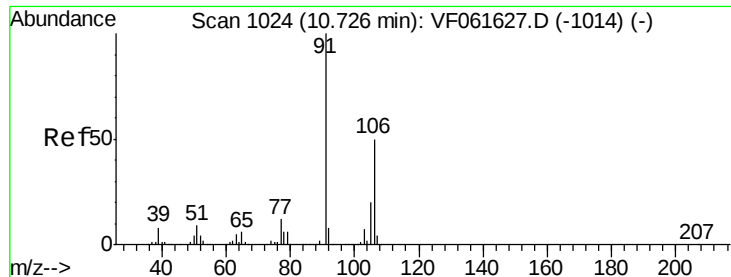


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

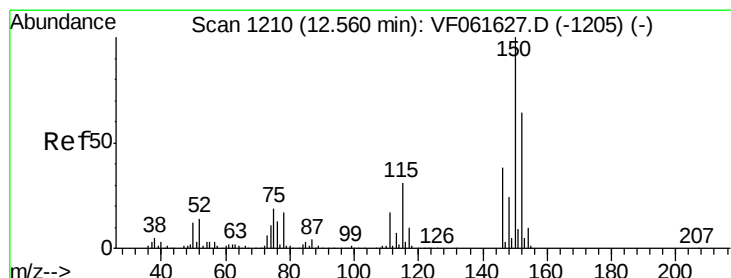
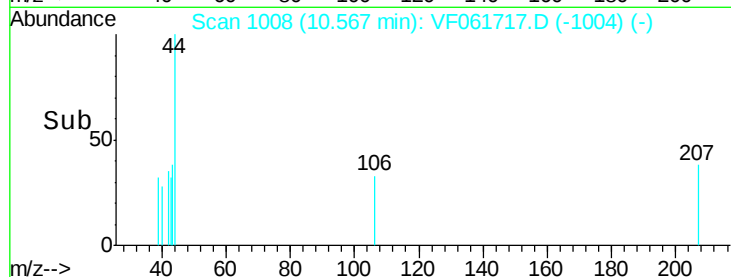
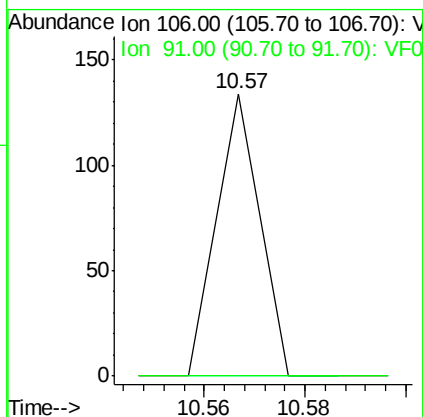
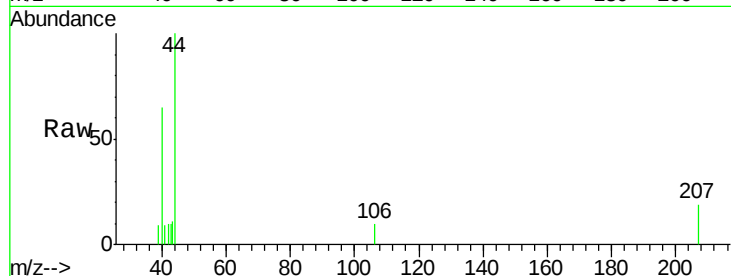




#69  
o-Xylene  
Concen: 1.870 ug/l  
RT: 10.57 min Scan# 1008  
Delta R.T. -0.16 min  
Lab File: VF061717.D  
Acq: 22 Feb 2019 19:23

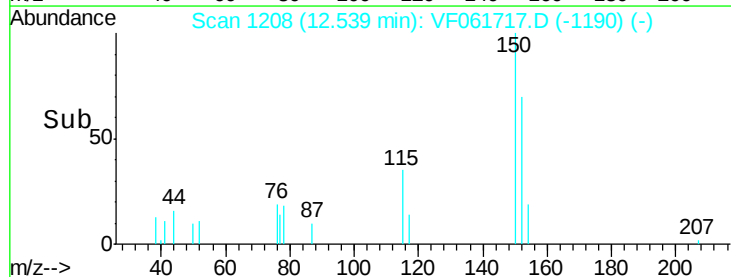
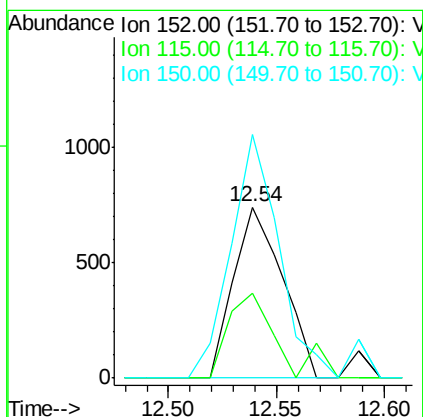
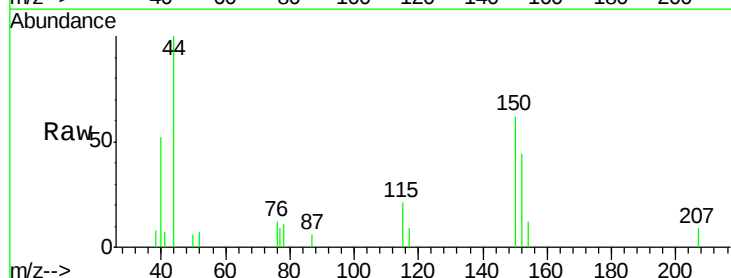
Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-22RE

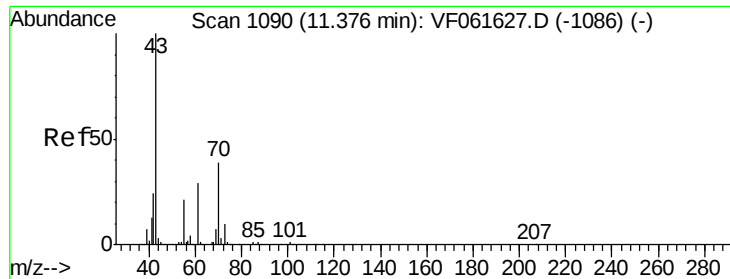
Tot Ion:106 Resp: 79  
Ion Ratio Lower Upper  
106 100  
91 0.0 100.1 300.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.54 min Scan# 1208  
Delta R.T. -0.02 min  
Lab File: VF061717.D  
Acq: 22 Feb 2019 19:23

Tgt Ion:152 Resp: 1169  
Ion Ratio Lower Upper  
152 100  
115 49.3 24.3 72.8  
150 142.3 0.0 312.0





#74

N-amvl acetate

Concen: 12.814 ug/l

RT: 11.40 min Scan# 1093

Delta R.T. 0.03 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

TP-22RE

Tot Ion: 43 Resp: 256

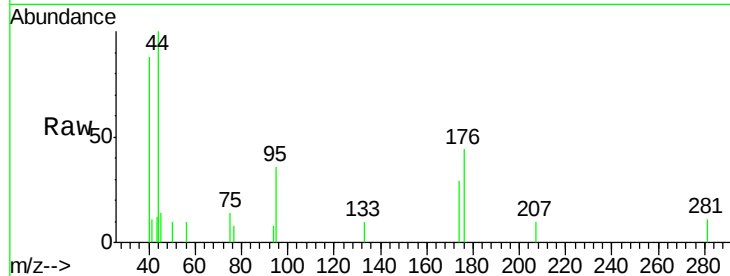
Ion Ratio Lower Upper

43 100

70 0.0 31.5 47.3#

55 0.0 16.7 25.1#

61 0.0 23.0 34.6#

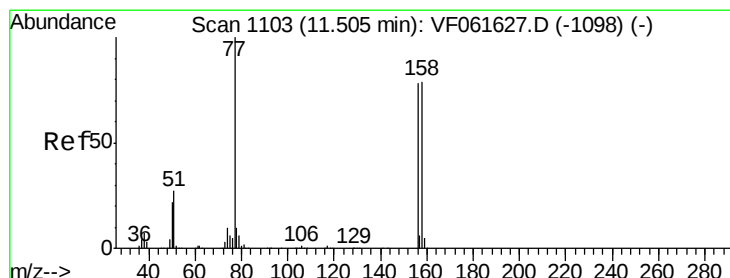
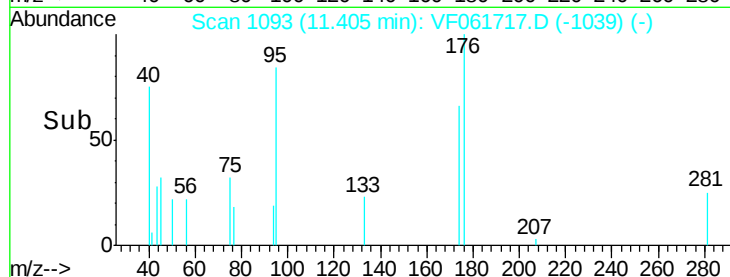
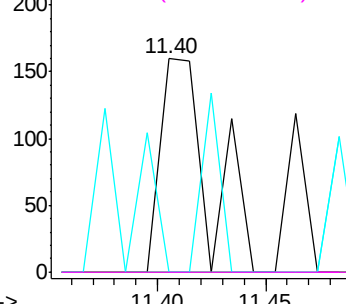


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#77

Bromobenzene

Concen: 3.064 ug/l

RT: 11.63 min Scan# 1116

Delta R.T. 0.13 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

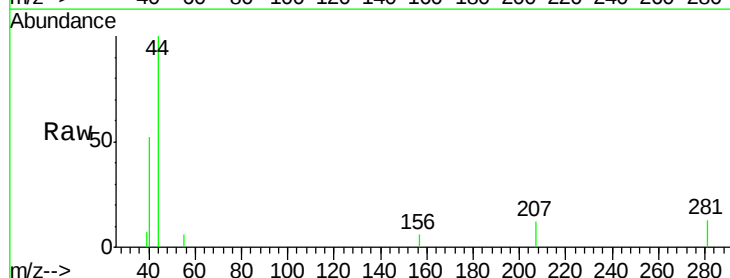
Tgt Ion: 156 Resp: 63

Ion Ratio Lower Upper

156 100

77 0.0 64.3 192.7#

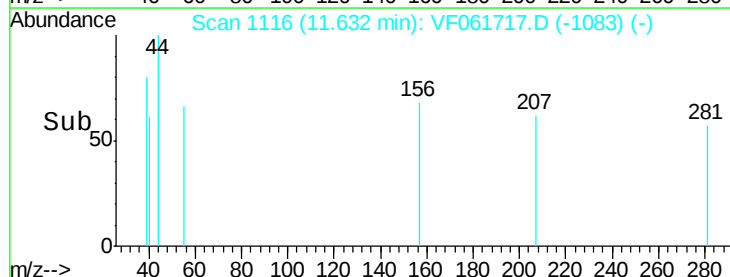
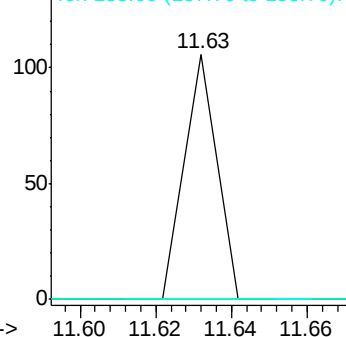
158 0.0 50.9 152.7#

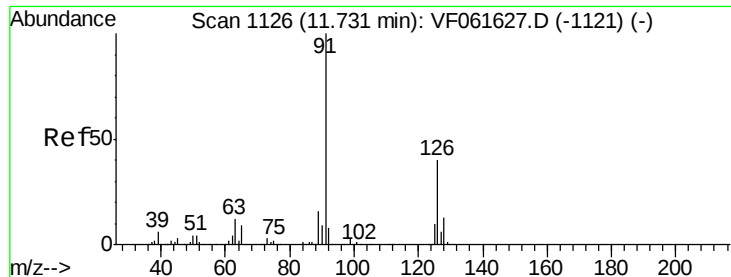


Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V





#79

2-Chlorotoluene

Concen: 1.215 ug/l

RT: 11.76 min Scan# 1129

Delta R.T. 0.03 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

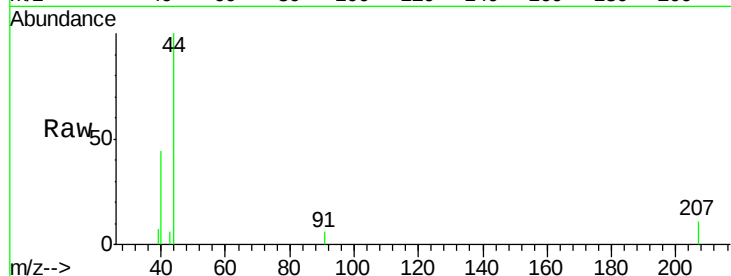
TP-22RE

Tot Ion: 91 Resp: 65

Ion Ratio Lower Upper

91 100

126 0.0 19.8 59.4#



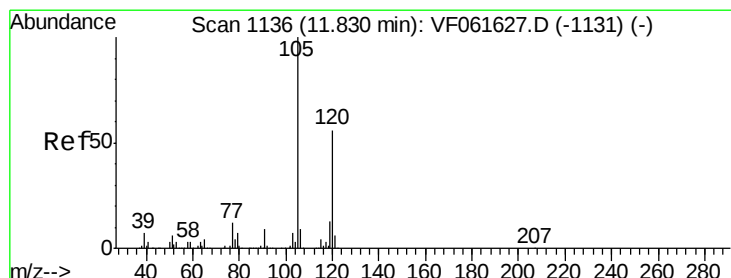
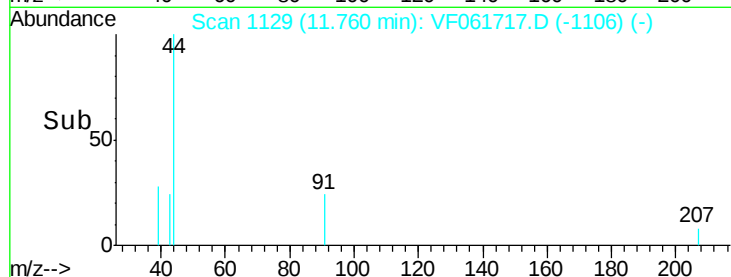
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.76

Time-->

11.74 11.76 11.78



#80

1,3,5-Trimethylbenzene

Concen: 1.007 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.14 min

Lab File: VF061717.D

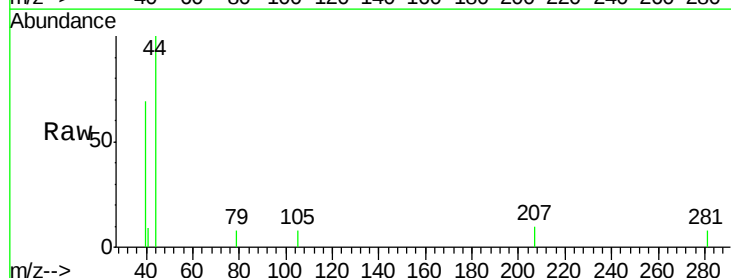
Acq: 22 Feb 2019 19:23

Tgt Ion: 105 Resp: 67

Ion Ratio Lower Upper

105 100

120 0.0 27.9 83.6#



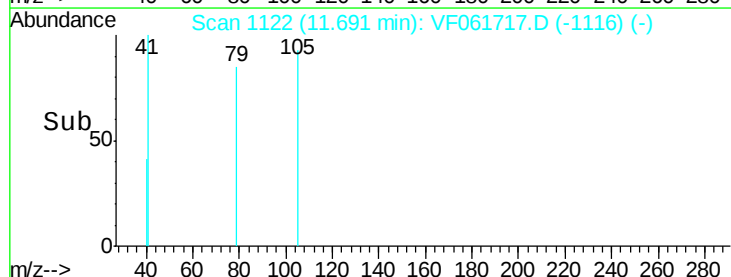
Abundance Ion 105.00 (104.70 to 105.70): V

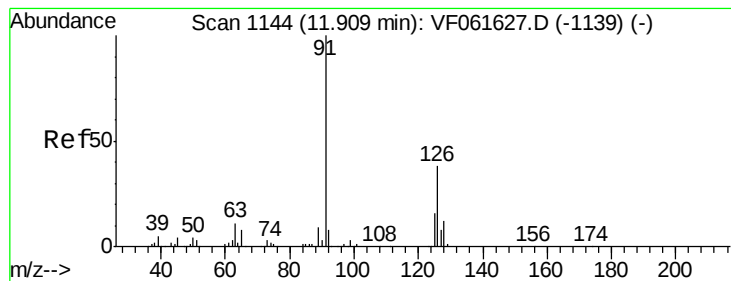
Ion 120.00 (119.70 to 120.70): V

11.69

Time-->

11.66 11.68 11.70 11.72





#82

4-Chlorotoluene

Concen: 1.171 ug/l

RT: 11.76 min Scan# 1129

Delta R.T. -0.15 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

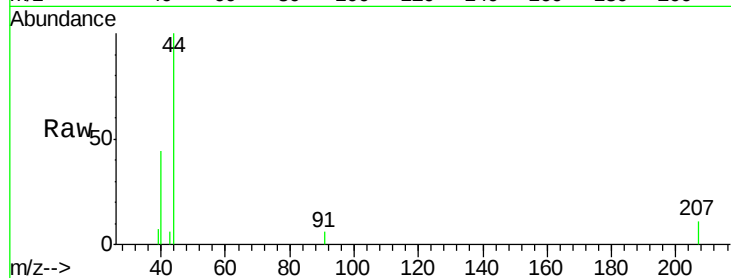
TP-22RE

Tot Ion: 91 Resp: 65

Ion Ratio Lower Upper

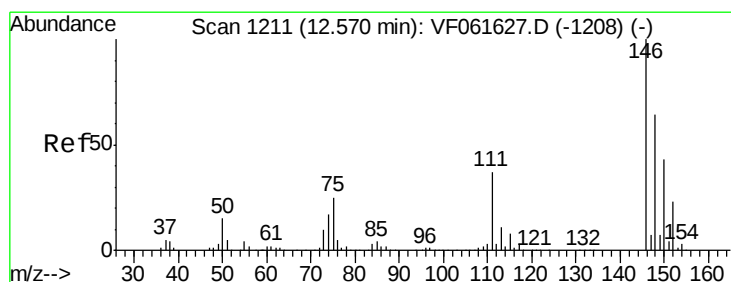
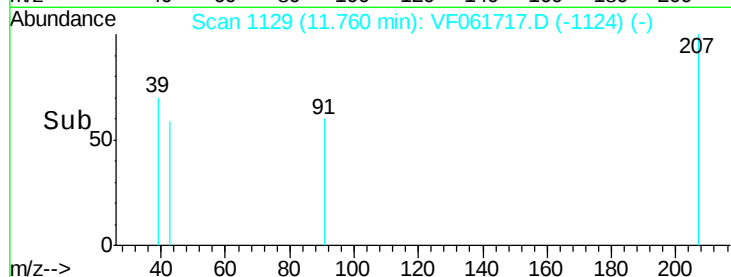
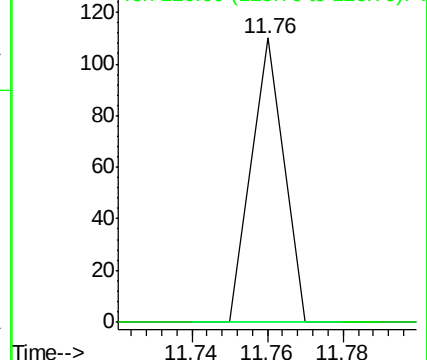
91 100

126 0.0 19.1 57.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#88

1,4-Dichlorobenzene

Concen: 1.608 ug/l

RT: 12.68 min Scan# 1222

Delta R.T. 0.11 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

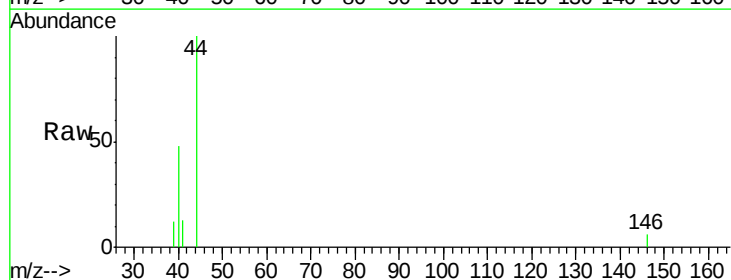
Tgt Ion: 146 Resp: 62

Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.4#

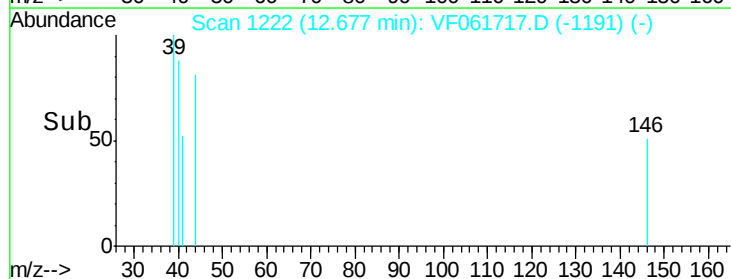
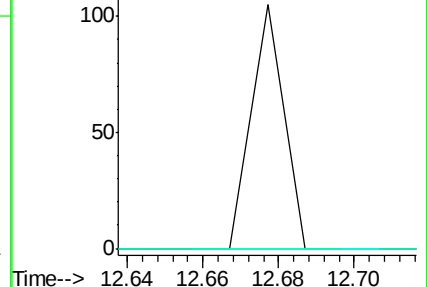
148 0.0 32.2 96.6#

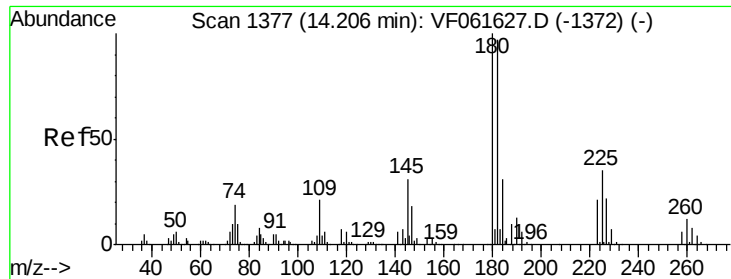


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#93

1,2,4-Trichlorobenzene

Concen: 2.561 ug/l

RT: 14.06 min Scan# 1362

Delta R.T. -0.15 min

Lab File: VF061717.D

Acq: 22 Feb 2019 19:23

Instrument :

MSVOA\_F

ClientSampleId :

TP-22RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 180   | Resp: | 70     |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 0.0   | 48.6  | 145.9# |
| 145       | 0.0   | 15.3  | 45.9#  |

