

Data File : VF060024.D  
Acq On : 21 Aug 2018 17:27  
Operator : VA/AP  
Sample : VSTDIC010  
Misc : 5.00g/5mL/MSVOA\_F/SOIL  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

Quant Time: Aug 22 03:59:06 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F082118S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 22 03:57:17 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.05  | 168  | 230491   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 325664   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.93  | 117  | 359948   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.64 | 152  | 218473   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 5.03   | 65  | 29568    | 6.95  | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 13.90% |      |
| 35) Dibromofluoromethane  | 4.30   | 113 | 26454    | 8.26  | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 16.52% |      |
| 50) Toluene-d8            | 7.71   | 98  | 77091    | 10.52 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 21.04% |      |
| 62) 4-Bromofluorobenzene  | 11.52  | 95  | 42043    | 9.59  | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 19.18% |      |

#### Target Compounds

|                               |      |     |        |               | Qvalue |
|-------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane    | 0.96 | 85  | 29117  | 7.724 ug/l    | 95     |
| 3) Chloromethane              | 1.08 | 50  | 21939  | 10.459 ug/l   | 99     |
| 4) Vinyl Chloride             | 1.13 | 62  | 18278  | 7.989 ug/l    | 91     |
| 5) Bromomethane               | 1.32 | 94  | 14669  | 6.700 ug/l    | 96     |
| 6) Chloroethane               | 1.39 | 64  | 8066   | 7.056 ug/l    | 89     |
| 7) Trichlorofluoromethane     | 1.49 | 101 | 39623  | 6.302 ug/l    | 99     |
| 8) Diethyl Ether              | 1.71 | 74  | 6026   | 6.348 ug/l    | 84     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.87 | 101 | 20360  | 6.834 ug/l    | 96     |
| 10) Methyl Iodide             | 1.93 | 142 | 24045  | 6.376 ug/l    | 97     |
| 11) Tert butyl alcohol        | 2.68 | 59  | 7780   | 31.495 ug/l # | 80     |
| 12) 1,1-Dichloroethene        | 1.84 | 96  | 15027  | 7.225 ug/l    | 87     |
| 13) Acrolein                  | 2.09 | 56  | 3133   | 23.455 ug/l   | 84     |
| 14) Allyl chloride            | 2.19 | 41  | 25583  | 7.269 ug/l    | 96     |
| 15) Acrylonitrile             | 3.08 | 53  | 16152  | 40.520 ug/l   | 94     |
| 16) Acetone                   | 2.34 | 43  | 41680  | 31.530 ug/l   | 100    |
| 17) Carbon Disulfide          | 1.85 | 76  | 50803  | 7.720 ug/l #  | 90     |
| 18) Methyl Acetate            | 2.46 | 43  | 15852  | 6.281 ug/l    | 99     |
| 19) Methyl tert-butyl Ether   | 2.54 | 73  | 43628  | 6.444 ug/l #  | 87     |
| 20) Methylene Chloride        | 2.28 | 84  | 18786  | 6.389 ug/l    | 95     |
| 21) trans-1,2-Dichloroethene  | 2.42 | 96  | 17228  | 7.728 ug/l    | 90     |
| 22) Diisopropyl ether         | 2.93 | 45  | 56588  | 7.494 ug/l    | 99     |
| 23) Vinyl Acetate             | 3.34 | 43  | 133521 | 42.301 ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 3.01 | 63  | 33621  | 6.896 ug/l    | 99     |
| 25) 2-Butanone                | 4.52 | 43  | 51459  | 47.145 ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 3.77 | 77  | 33071  | 7.512 ug/l    | 89     |
| 27) cis-1,2-Dichloroethene    | 3.64 | 96  | 22605  | 10.430 ug/l   | 94     |
| 28) Bromochloromethane        | 3.90 | 49  | 16892  | 11.230 ug/l   | 84     |
| 29) Tetrahydrofuran           | 4.26 | 42  | 19448  | 49.667 ug/l   | 96     |
| 30) Chloroform                | 4.04 | 83  | 49164  | 8.404 ug/l    | 92     |
| 31) Cyclohexane               | 3.87 | 56  | 27644  | 11.346 ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 4.28 | 97  | 42263  | 7.565 ug/l    | 92     |
| 36) 1,1-Dichloropropene       | 4.47 | 75  | 32290  | 8.844 ug/l    | 95     |
| 37) Ethyl Acetate             | 4.29 | 43  | 20485  | 10.257 ug/l # | 85     |
| 38) Carbon Tetrachloride      | 4.18 | 117 | 35911  | 7.127 ug/l    | 98     |

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VSTDIC010

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Quant Title : SW846 8260  
QLast Update : Wed Aug 22 03:57:17 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.63  | 83   | 30822    | 11.052  | ug/l   | 88       |
| 40) Benzene                    | 4.81  | 78   | 68911    | 10.984  | ug/l   | 95       |
| 41) Methacrylonitrile          | 4.92  | 41   | 9356     | 9.677   | ug/l   | 92       |
| 42) 1,2-Dichloroethane         | 5.12  | 62   | 37040    | 7.358   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 7.12  | 43   | 21509    | 9.499   | ug/l # | 98       |
| 44) Trichloroethene            | 5.68  | 130  | 22539    | 9.395   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 6.41  | 63   | 17737    | 9.794   | ug/l # | 79       |
| 46) Dibromomethane             | 6.26  | 93   | 14948    | 8.621   | ug/l   | 93       |
| 47) Bromodichloromethane       | 6.56  | 83   | 35504    | 7.773   | ug/l   | 97       |
| 48) Methyl methacrylate        | 6.88  | 41   | 14616    | 8.860   | ug/l   | 96       |
| 49) 1,4-Dioxane                | 6.87  | 88   | 2550     | 196.883 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.41  | 43   | 104267   | 49.847  | ug/l   | 96       |
| 52) Toluene                    | 7.79  | 92   | 53145    | 11.329  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 32885    | 8.462   | ug/l   | 91       |
| 54) cis-1,3-Dichloropropene    | 7.46  | 75   | 36104    | 9.401   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 8.65  | 97   | 16482    | 8.789   | ug/l # | 90       |
| 56) Ethyl methacrylate         | 8.77  | 69   | 20041    | 9.179   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.00  | 76   | 31665    | 9.451   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 7.79  | 63   | 9493     | 54.777  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.63  | 43   | 86452    | 49.987  | ug/l   | 96       |
| 60) Dibromochloromethane       | 8.86  | 129  | 25738    | 7.798   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 9.14  | 107  | 21162    | 9.181   | ug/l   | 92       |
| 64) Tetrachloroethene          | 8.31  | 164  | 23769    | 8.715   | ug/l   | 92       |
| 65) Chlorobenzene              | 9.95  | 112  | 67789    | 9.563   | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.08 | 131  | 24950    | 7.868   | ug/l   | 96       |
| 67) Ethyl Benzene              | 10.05 | 91   | 122867   | 9.627   | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.27 | 106  | 89289    | 19.855  | ug/l   | 94       |
| 69) o-Xylene                   | 10.84 | 106  | 45926    | 9.979   | ug/l   | 92       |
| 70) Styrene                    | 10.90 | 104  | 72286    | 9.847   | ug/l   | 99       |
| 71) Bromoform                  | 10.89 | 173  | 16514    | 7.056   | ug/l   | 94       |
| 73) Isopropylbenzene           | 11.23 | 105  | 137575   | 10.464  | ug/l   | 98       |
| 74) N-amyl acetate             | 11.47 | 43   | 36998    | 9.754   | ug/l # | 90       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.79 | 83   | 28445    | 10.762  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 11.89 | 75   | 21879    | 9.614   | ug/l   | 98       |
| 77) Bromobenzene               | 11.60 | 156  | 35872    | 9.815   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.69 | 91   | 168366   | 10.289  | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 11.82 | 91   | 99659    | 10.155  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.92 | 105  | 120435   | 10.206  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.96 | 75   | 14303    | 14.897  | ug/l   | 88       |
| 82) 4-Chlorotoluene            | 12.00 | 91   | 106545   | 9.921   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.23 | 119  | 118875   | 10.302  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 12.29 | 105  | 126146   | 10.169  | ug/l   | 96       |
| 85) sec-Butylbenzene           | 12.39 | 105  | 158485   | 10.291  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.54 | 119  | 128126   | 9.409   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.56 | 146  | 66059    | 9.467   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.65 | 146  | 65567    | 9.672   | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.93 | 91   | 125974   | 9.574   | ug/l   | 97       |
| 90) Hexachloroethane           | 13.00 | 117  | 28537    | 9.410   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 67307    | 10.127  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.72 | 75   | 5172     | 7.484   | ug/l   | 92       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF082118\  
Quantitation Report (Not Reviewed)

Data File : VF060024.D  
Acq On : 21 Aug 2018 17:27  
Operator : VA/AP  
Sample : VSTDICC010  
Misc : 5.00g/5mL/MSVOA\_F/SOIL  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICC010

Quant Time: Aug 22 03:59:06 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F082118S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 22 03:57:17 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.28 | 180  | 43247    | 8.042 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.27 | 225  | 29666    | 8.394 | ug/l  | 93       |
| 95) Naphthalene            | 14.53 | 128  | 48248    | 6.246 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 14.67 | 180  | 39801    | 7.716 | ug/l  | 93       |

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

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Acq On : 21 Aug 2018 17:27

Operator : VA/AP

Sample : VSTDICC010

Misc : 5.00g/5mL/MSV0A\_F/SOIL

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ALS Vial      : 32      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_F  
**ClientSampleId :**  
VSTDICC010

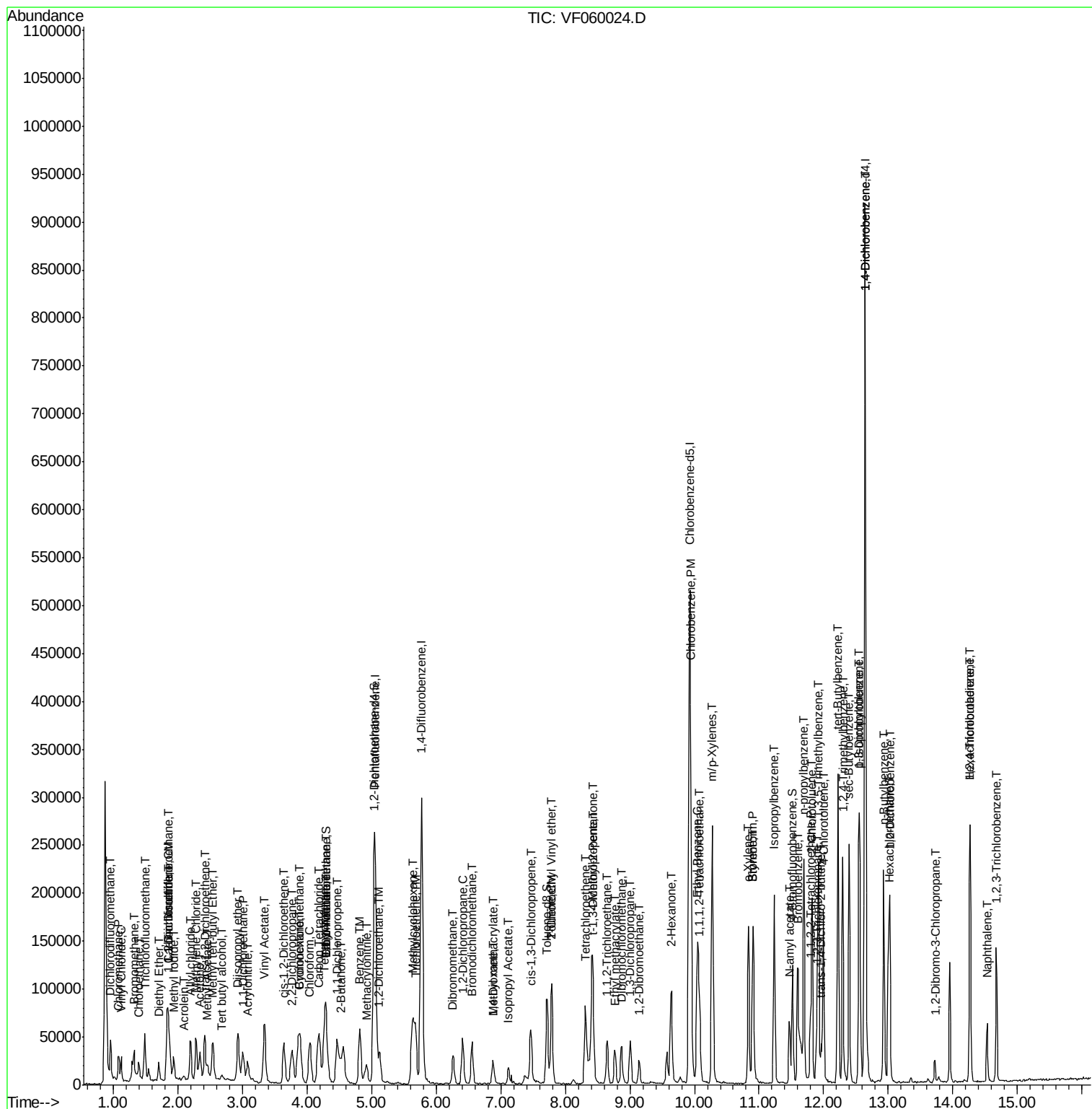
Quant Time: Aug 22 03:59:06 2018

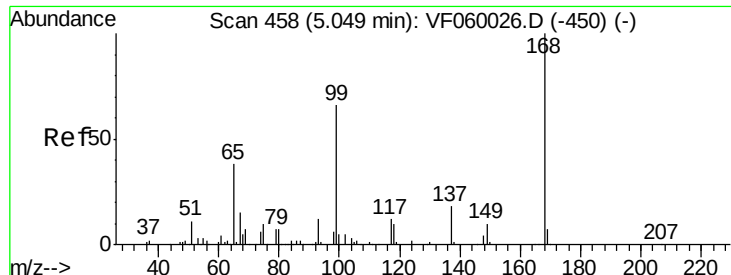
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F082118S.M

Quant Title : SW846 8260

QLast Update : Wed Aug 22 03:57:17 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

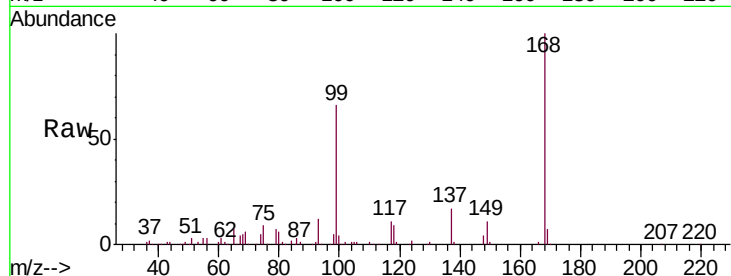
VSTDIC010

Tgt Ion:168 Resp: 230491

Ion Ratio Lower Upper

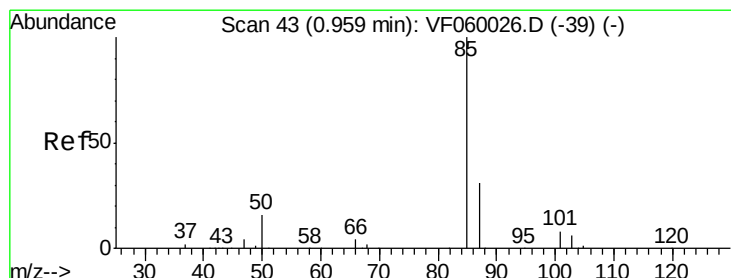
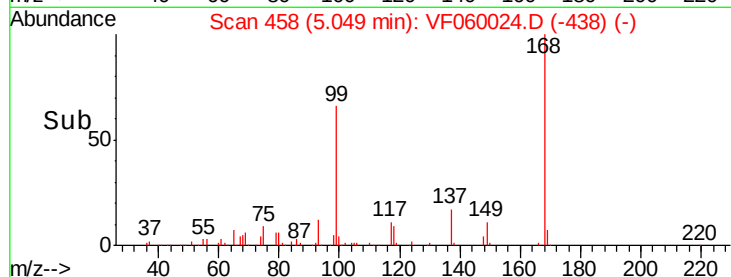
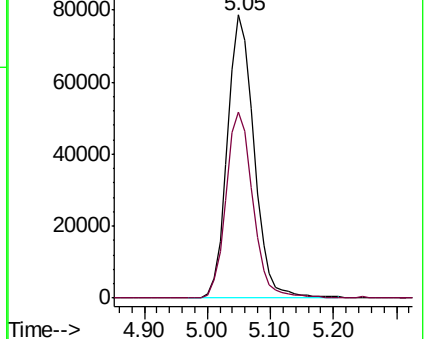
168 100

99 65.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 7.724 ug/l

RT: 0.96 min Scan# 43

Delta R.T. 0.00 min

Lab File: VF060024.D

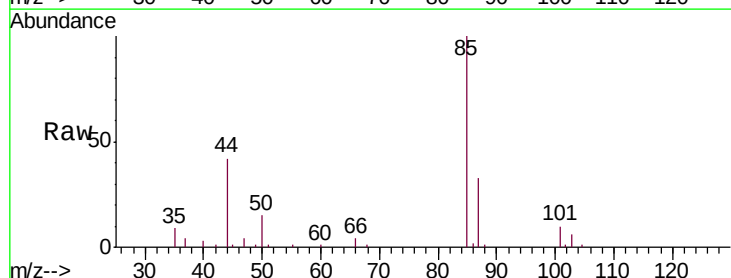
Acq: 21 Aug 2018 17:27

Tgt Ion: 85 Resp: 29117

Ion Ratio Lower Upper

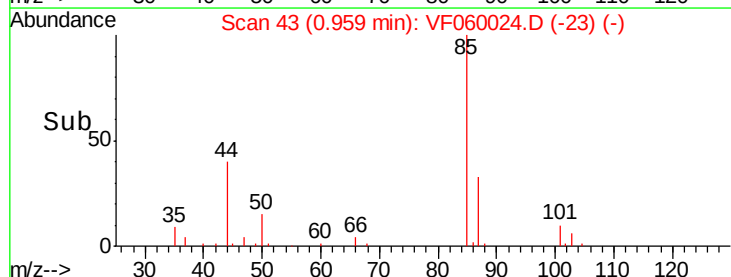
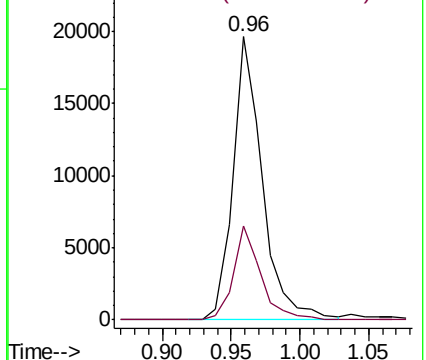
85 100

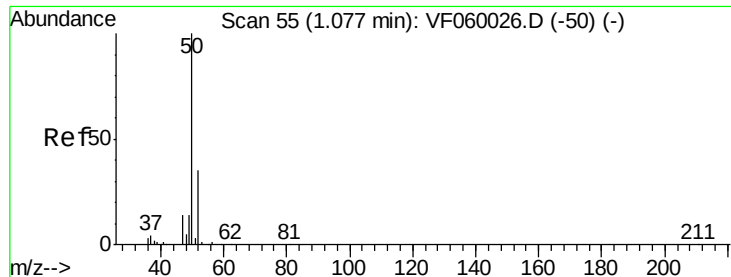
87 33.3 15.3 45.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 10.459 ug/l

RT: 1.08 min Scan# 55

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

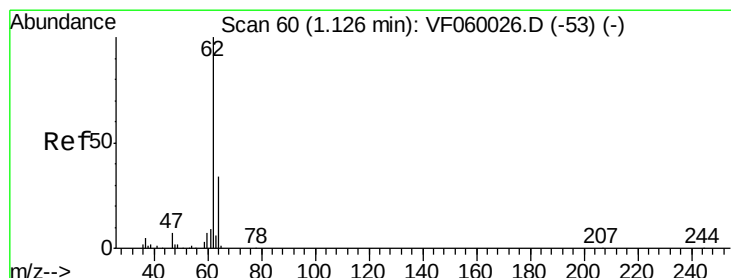
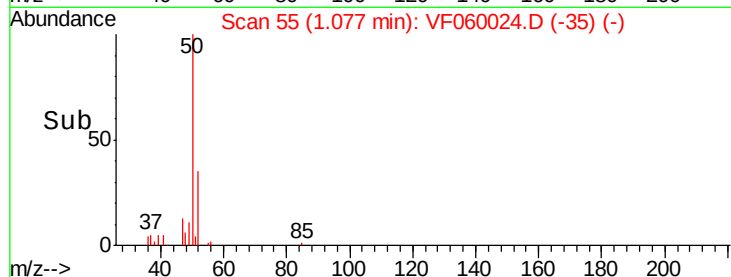
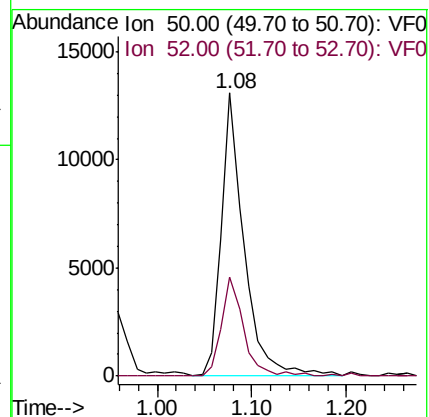
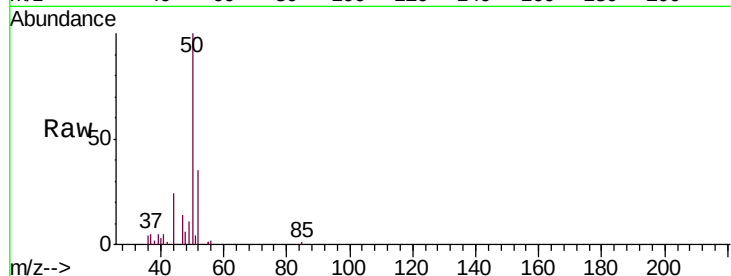
VSTDIC010

Tgt Ion: 50 Resp: 21939

Ion Ratio Lower Upper

50 100

52 35.0 27.6 41.4



#4

Vinyl Chloride

Concen: 7.989 ug/l

RT: 1.13 min Scan# 60

Delta R.T. 0.00 min

Lab File: VF060024.D

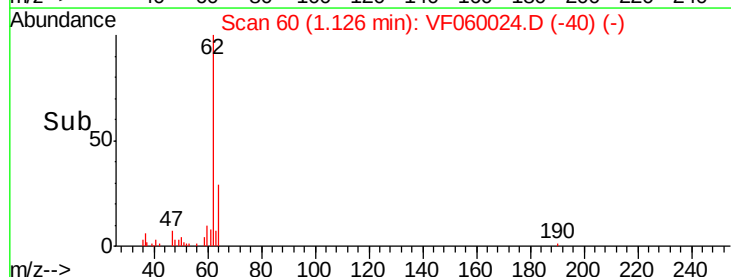
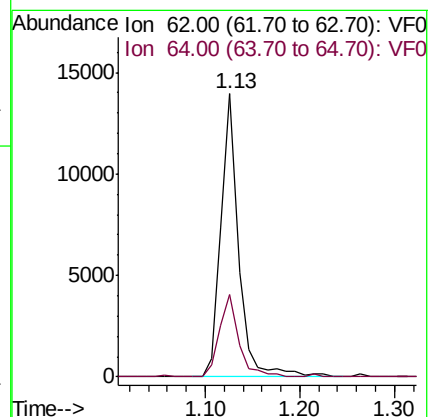
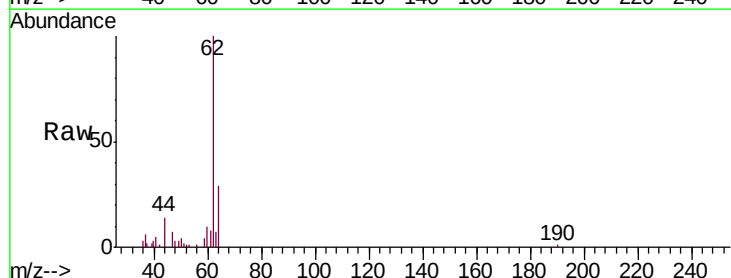
Acq: 21 Aug 2018 17:27

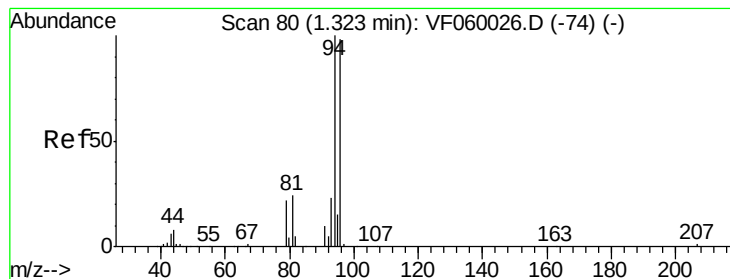
Tgt Ion: 62 Resp: 18278

Ion Ratio Lower Upper

62 100

64 29.0 27.4 41.2





#5

Bromomethane

Concen: 6.700 ug/l

RT: 1.32 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

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ClientSampleId :

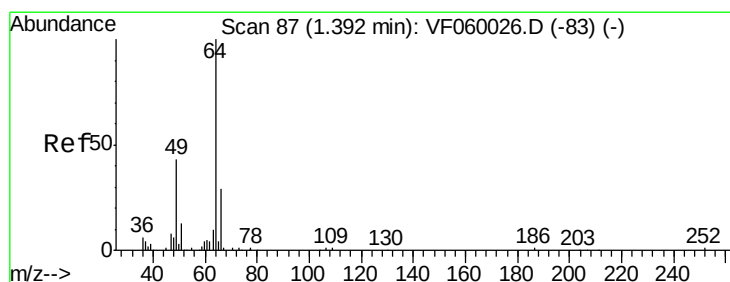
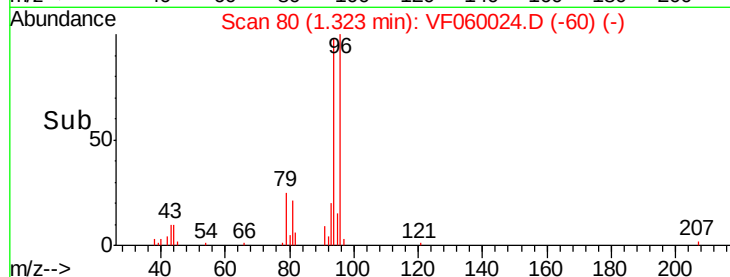
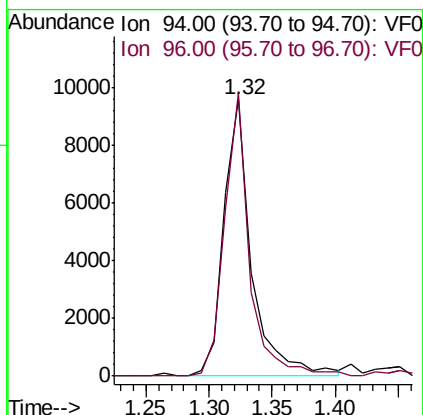
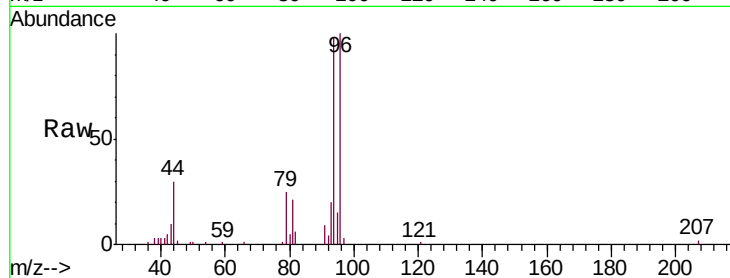
VSTDIC010

Tgt Ion: 94 Resp: 14669

Ion Ratio Lower Upper

94 100

96 102.4 78.6 118.0



#6

Chloroethane

Concen: 7.056 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF060024.D

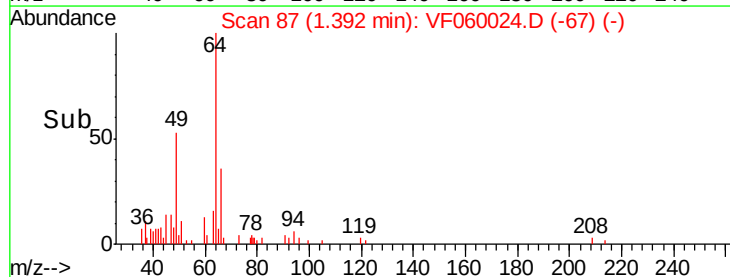
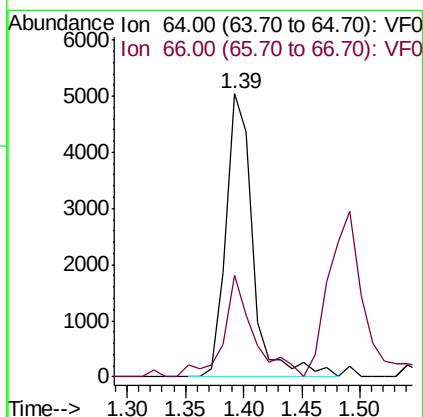
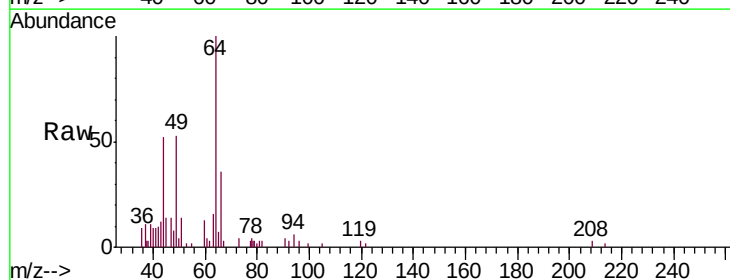
Acq: 21 Aug 2018 17:27

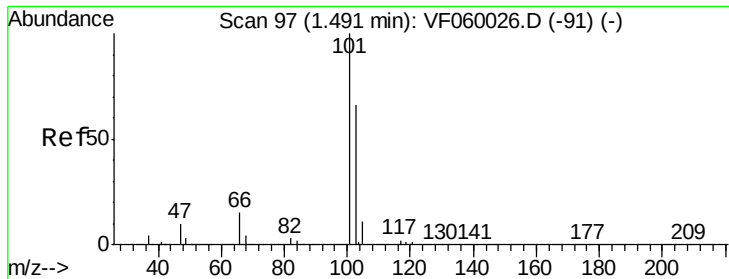
Tgt Ion: 64 Resp: 8066

Ion Ratio Lower Upper

64 100

66 36.0 24.1 36.1





#7

Trichlorofluoromethane

Concen: 6.302 ug/l

RT: 1.49 min Scan# 97

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

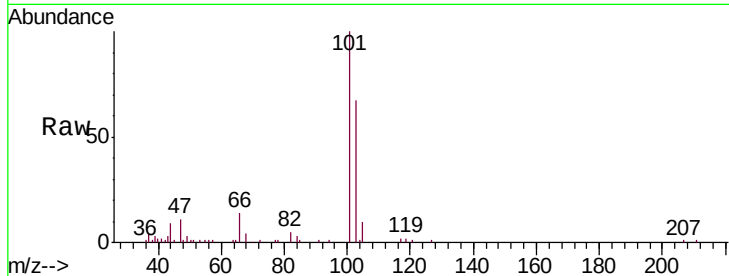
VSTDIC010

Tgt Ion:101 Resp: 39623

Ion Ratio Lower Upper

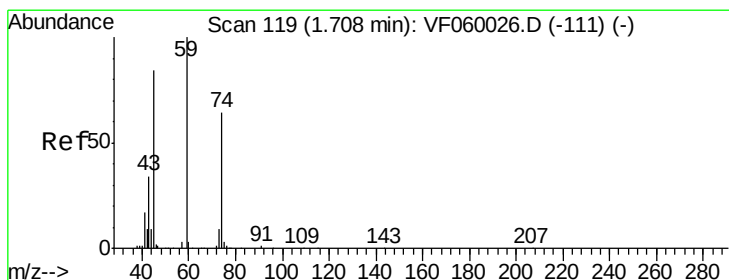
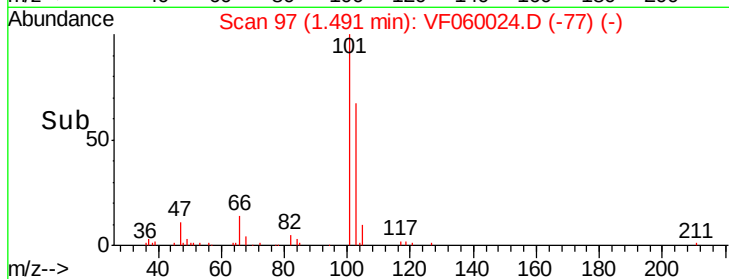
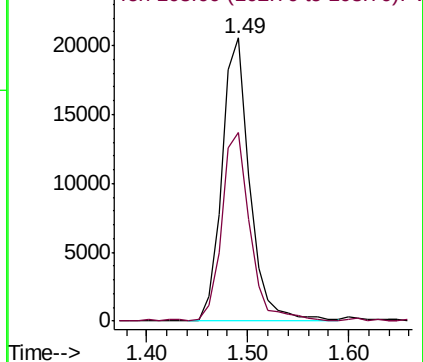
101 100

103 66.6 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 6.348 ug/l

RT: 1.71 min Scan# 119

Delta R.T. 0.00 min

Lab File: VF060024.D

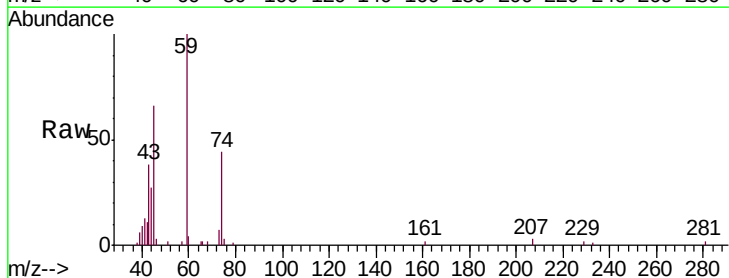
Acq: 21 Aug 2018 17:27

Tgt Ion: 74 Resp: 6026

Ion Ratio Lower Upper

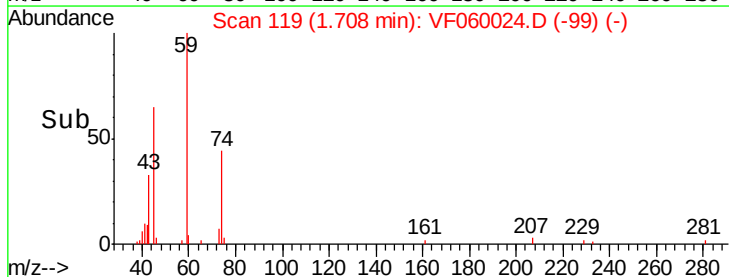
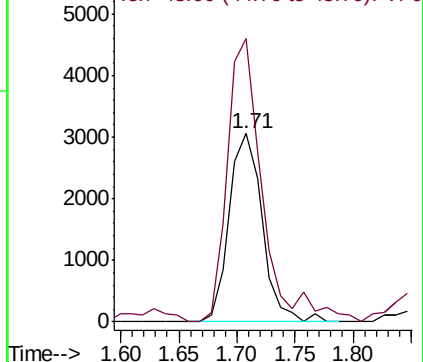
74 100

45 150.3 66.0 198.0

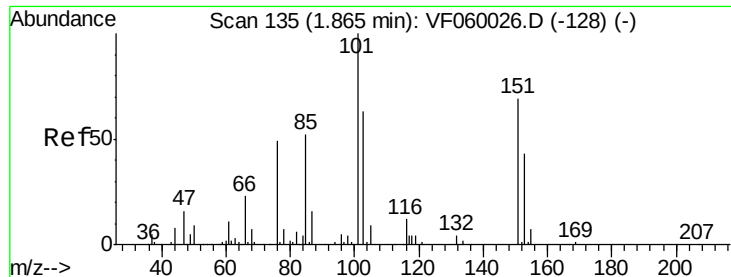


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0







#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.834 ug/l

RT: 1.87 min Scan# 135

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

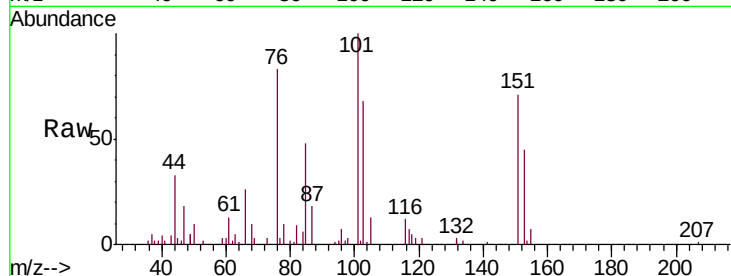
Tgt Ion:101 Resp: 20360

Ion Ratio Lower Upper

101 100

85 48.4 41.5 62.3

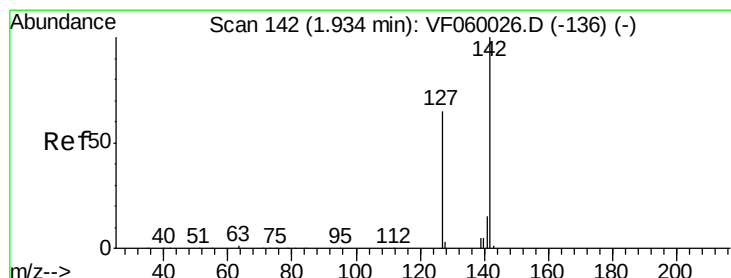
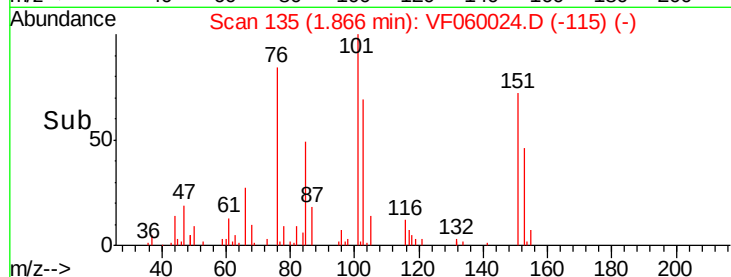
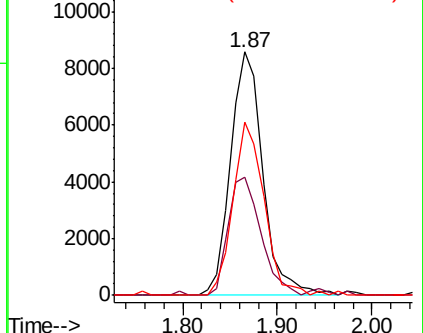
151 71.0 55.2 82.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 6.376 ug/l

RT: 1.93 min Scan# 142

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

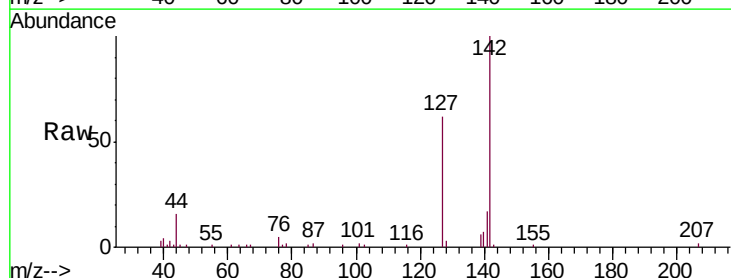
Tgt Ion:142 Resp: 24045

Ion Ratio Lower Upper

142 100

127 62.4 51.8 77.6

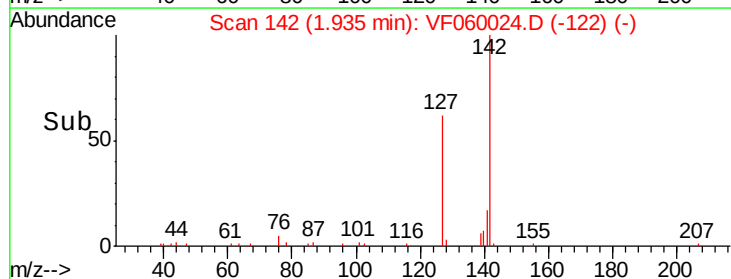
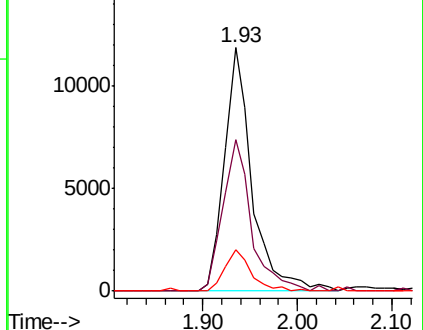
141 16.8 11.9 17.9

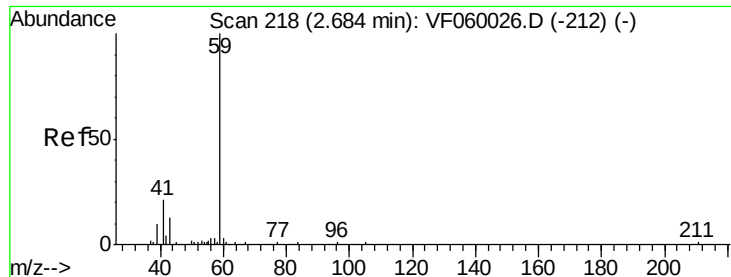


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

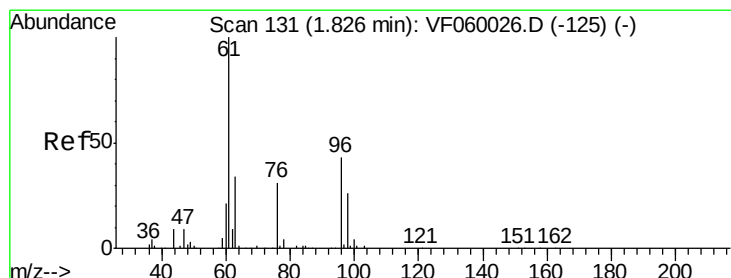
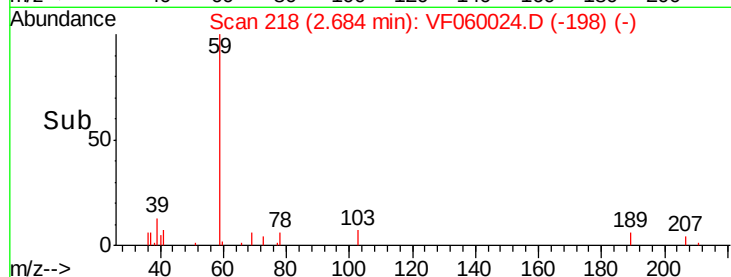
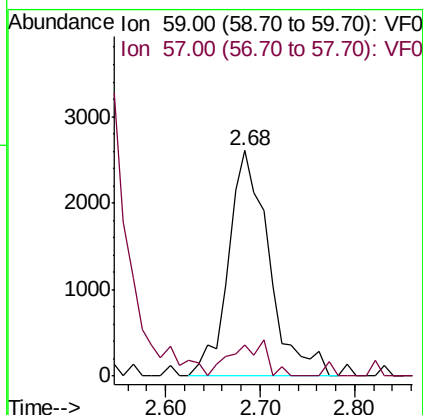
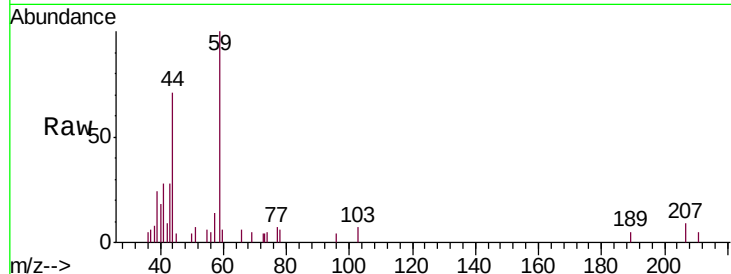




#11  
Tert butyl alcohol  
Concen: 31.495 ug/l  
RT: 2.68 min Scan# 218  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

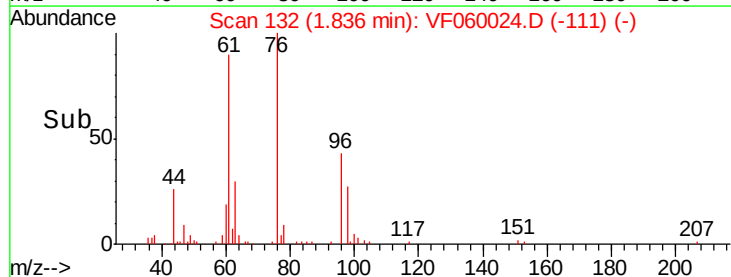
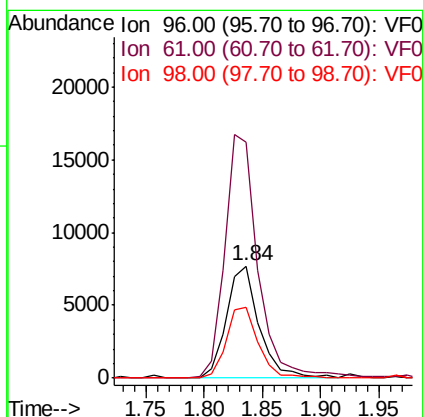
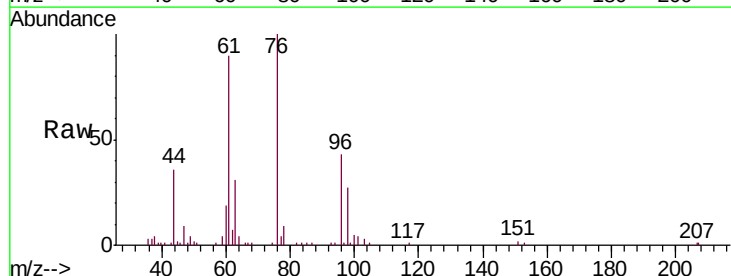
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

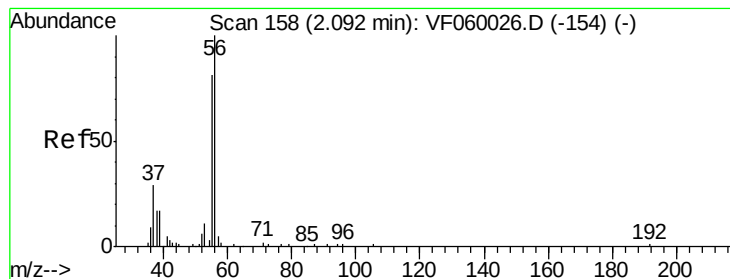
Tgt Ion: 59 Resp: 7780  
Ion Ratio Lower Upper  
59 100  
57 13.8 5.4 8.2#



#12  
1,1-Dichloroethene  
Concen: 7.225 ug/l  
RT: 1.84 min Scan# 132  
Delta R.T. 0.01 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Tgt Ion: 96 Resp: 15027  
Ion Ratio Lower Upper  
96 100  
61 206.0 185.0 277.6  
98 62.0 47.8 71.8





#13

Acrolein

Concen: 23.455 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

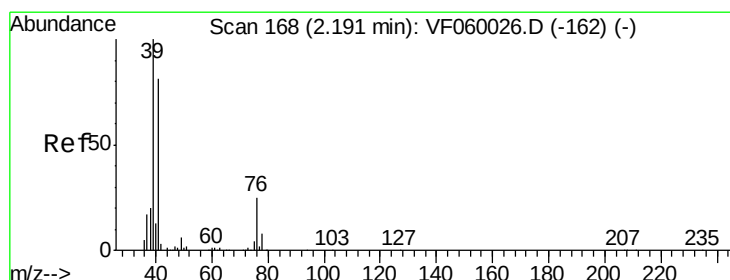
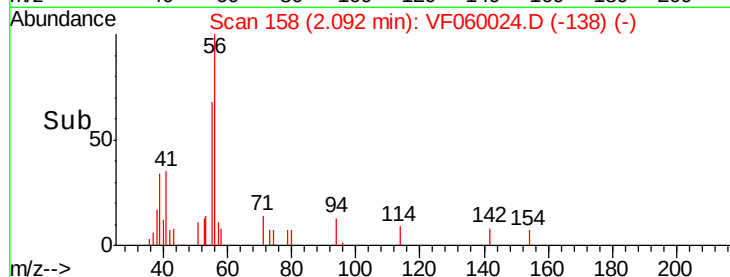
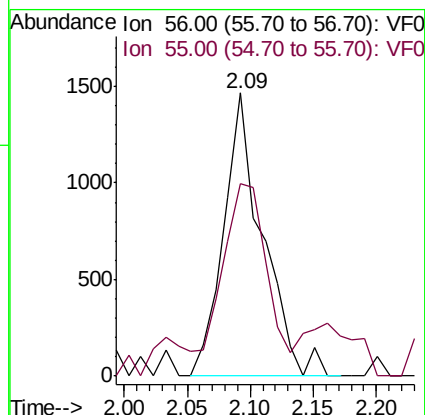
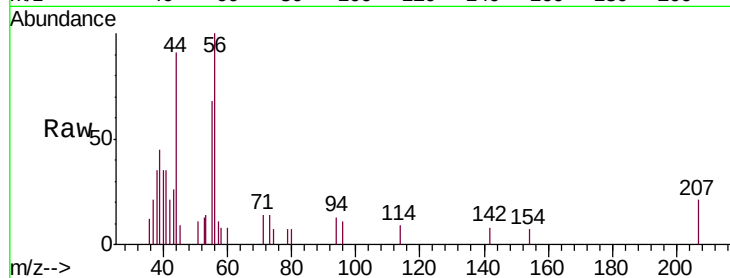
VSTDIC010

Tgt Ion: 56 Resp: 3133

Ion Ratio Lower Upper

56 100

55 67.8 65.6 98.4



#14

Allyl chloride

Concen: 7.269 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

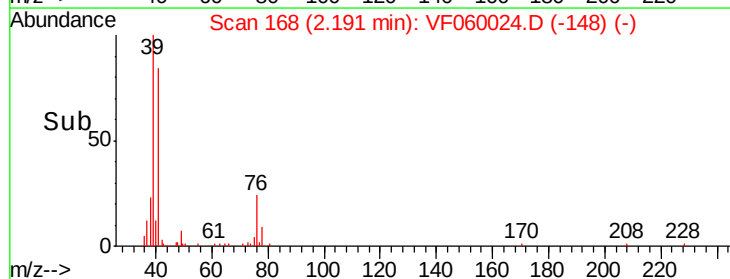
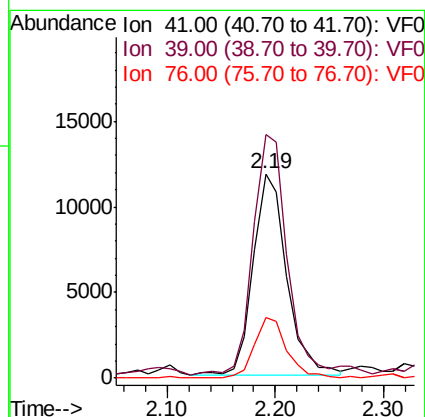
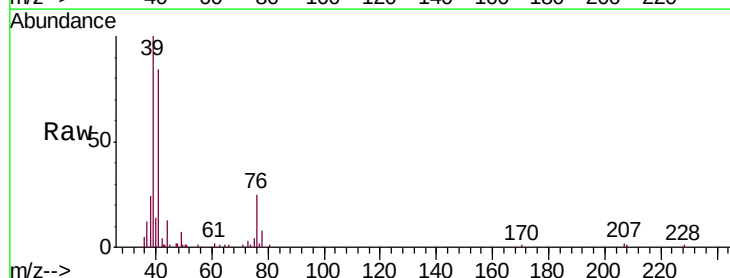
Tgt Ion: 41 Resp: 25583

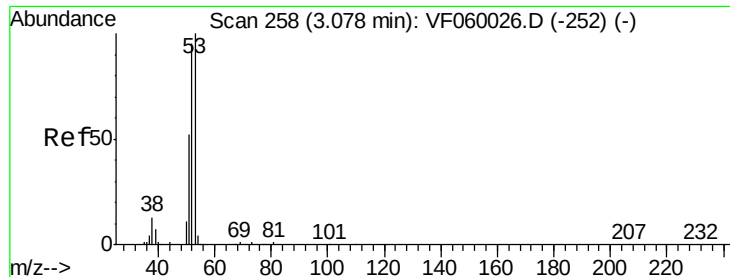
Ion Ratio Lower Upper

41 100

39 119.3 99.3 148.9

76 29.7 24.3 36.5





#15

Acrylonitrile

Concen: 40.520 ug/l

RT: 3.08 min Scan# 258

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

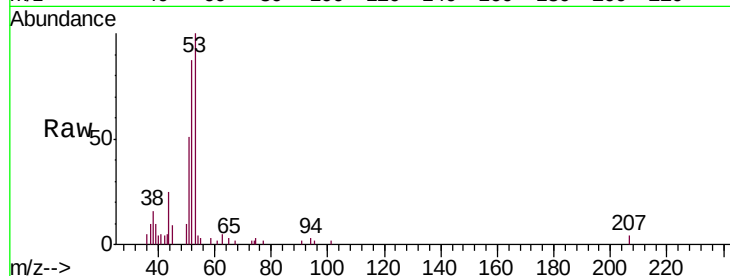
Tgt Ion: 53 Resp: 16152

Ion Ratio Lower Upper

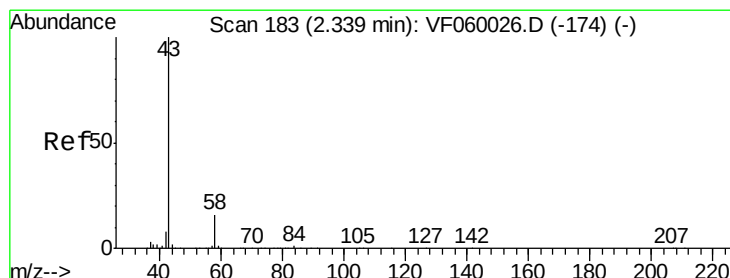
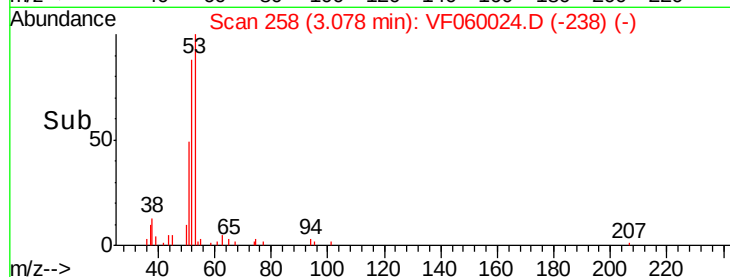
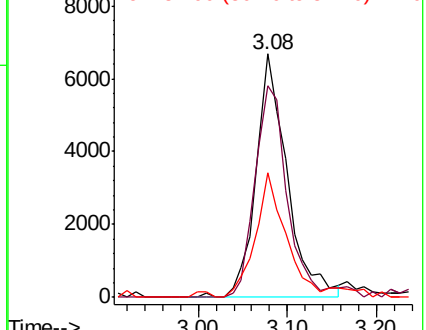
53 100

52 86.8 75.8 113.8

51 50.9 42.1 63.1



Abundance Ion 53.00 (52.70 to 53.70): VF0  
Ion 52.00 (51.70 to 52.70): VF0  
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 31.530 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF060024.D

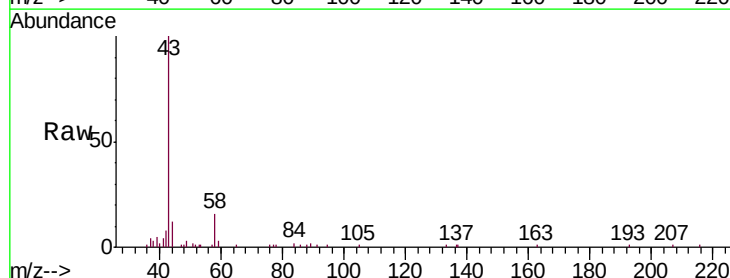
Acq: 21 Aug 2018 17:27

Tgt Ion: 43 Resp: 41680

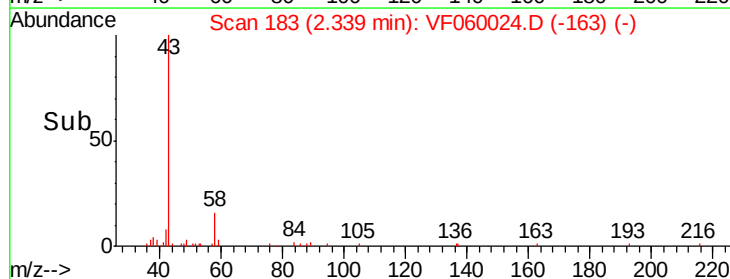
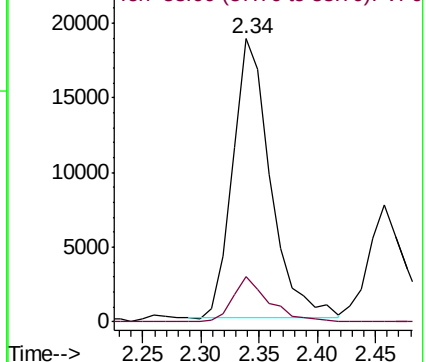
Ion Ratio Lower Upper

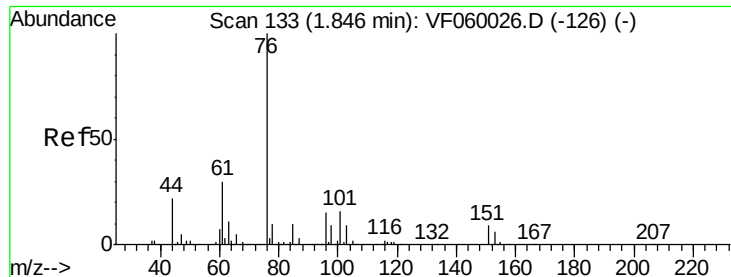
43 100

58 15.8 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VF0  
Ion 58.00 (57.70 to 58.70): VF0

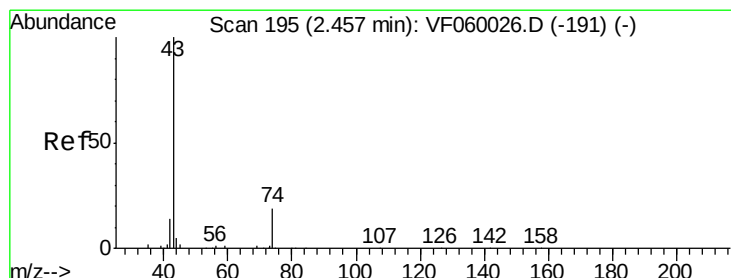
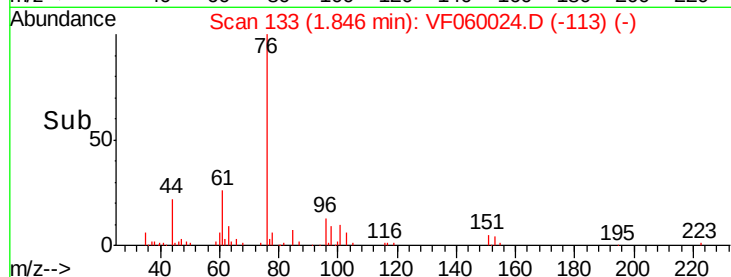
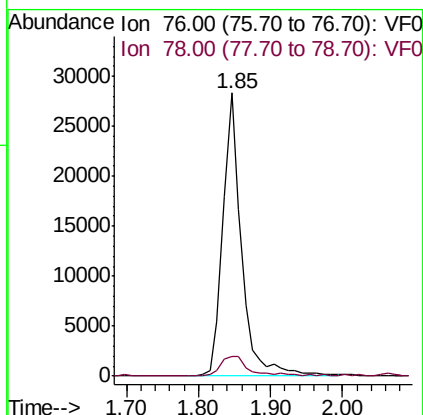
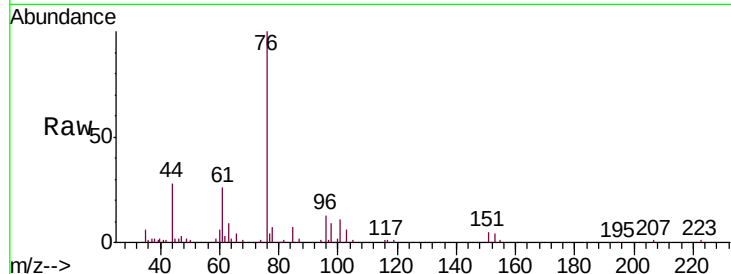




#17  
Carbon Disulfide  
Concen: 7.720 ug/l  
RT: 1.85 min Scan# 133  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

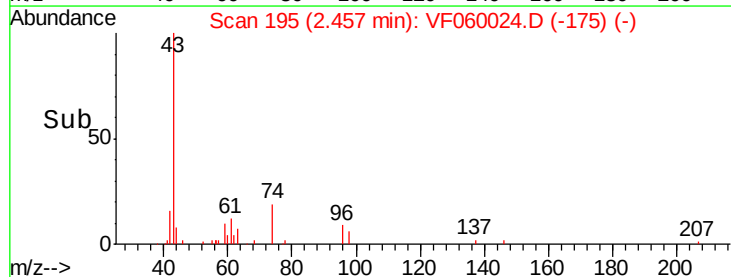
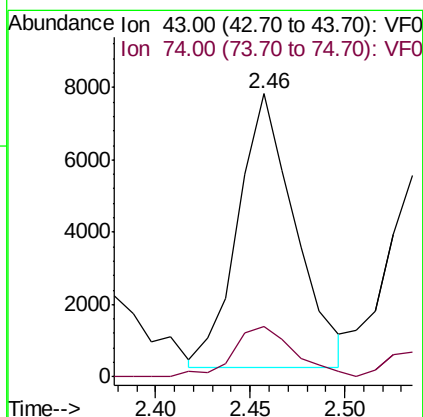
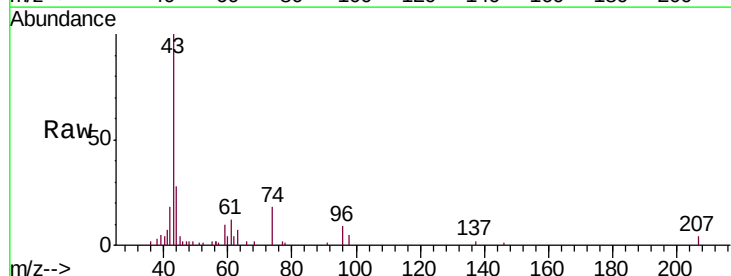
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

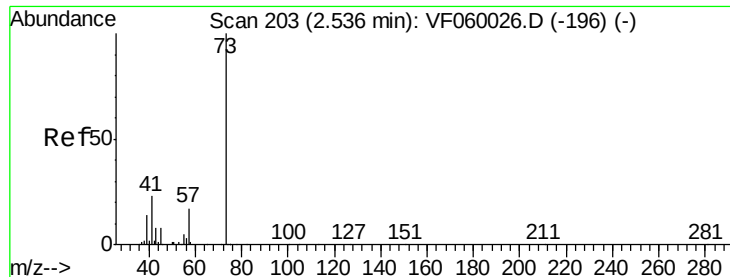
Tgt Ion: 76 Resp: 50803  
Ion Ratio Lower Upper  
76 100  
78 6.8 8.4 12.6#



#18  
Methyl Acetate  
Concen: 6.281 ug/l  
RT: 2.46 min Scan# 195  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Tgt Ion: 43 Resp: 15852  
Ion Ratio Lower Upper  
43 100  
74 17.7 13.8 20.6





#19

Methyl tert-butyl Ether

Concen: 6.444 ug/l

RT: 2.54 min Scan# 203

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

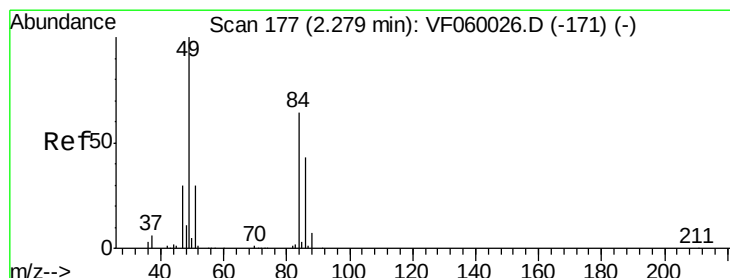
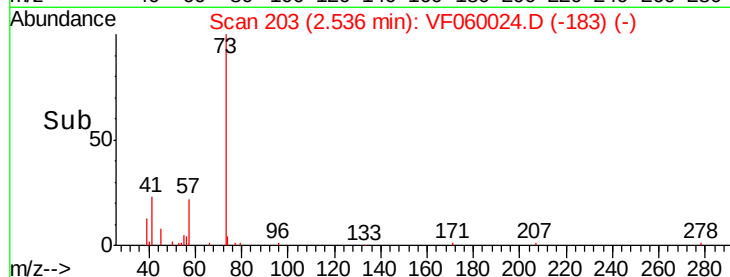
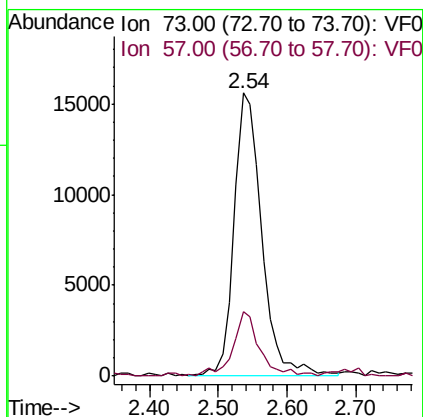
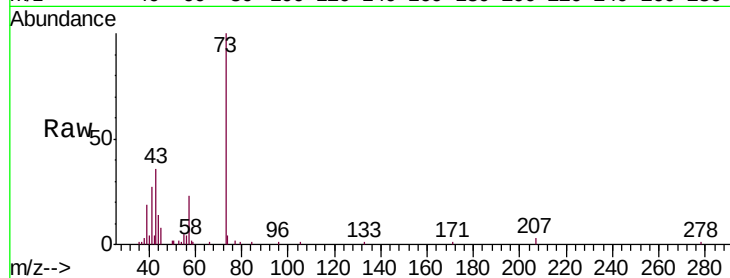
VSTDIC010

Tgt Ion: 73 Resp: 43628

Ion Ratio Lower Upper

73 100

57 22.8 13.7 20.5#



#20

Methylene Chloride

Concen: 6.389 ug/l

RT: 2.28 min Scan# 177

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Tgt Ion: 84 Resp: 18786

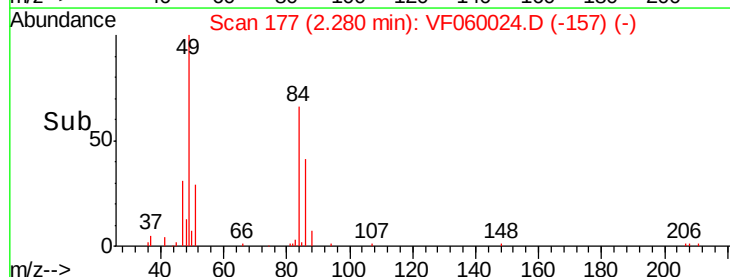
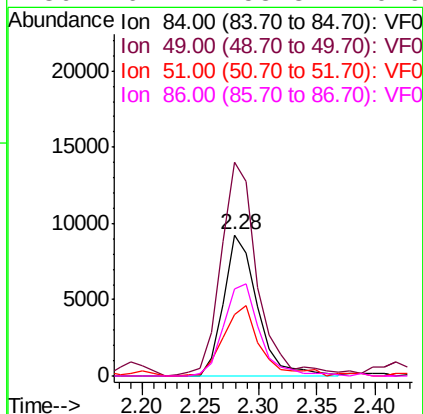
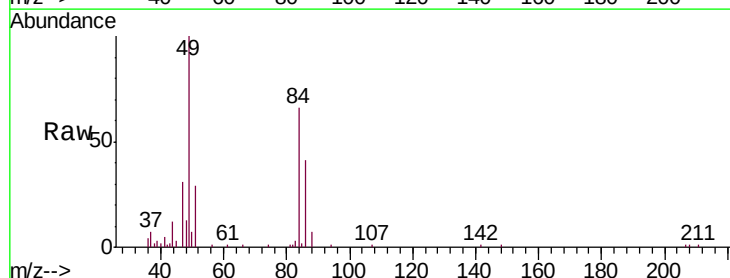
Ion Ratio Lower Upper

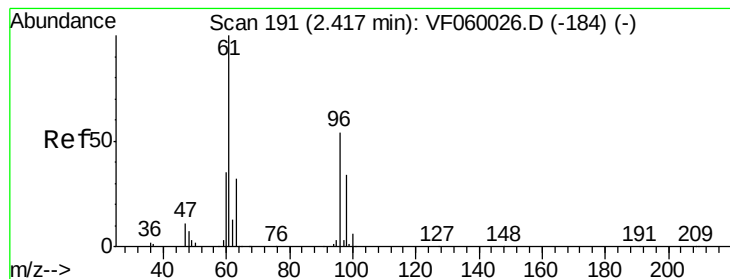
84 100

49 151.5 125.4 188.0

51 43.6 38.3 57.5

86 61.4 53.3 79.9





#21

trans-1,2-Dichloroethene

Concen: 7.728 ug/l

RT: 2.42 min Scan# 191

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

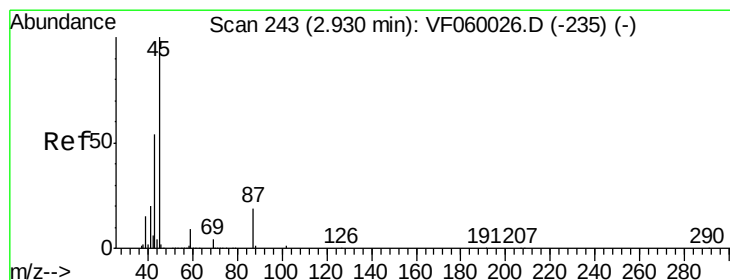
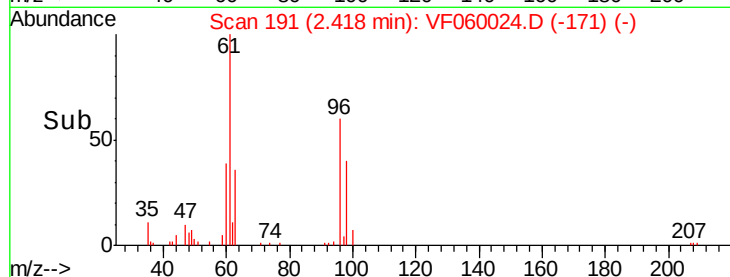
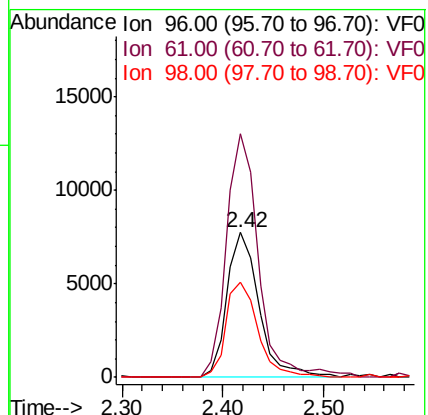
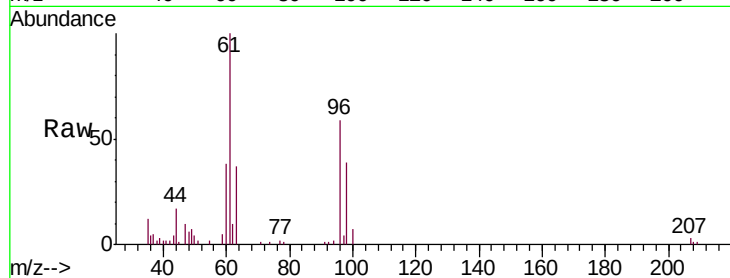
Tgt Ion: 96 Resp: 17228

Ion Ratio Lower Upper

96 100

61 168.1 147.4 221.0

98 65.9 49.8 74.6



#22

Diisopropyl ether

Concen: 7.494 ug/l

RT: 2.93 min Scan# 243

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Tgt Ion: 45 Resp: 56588

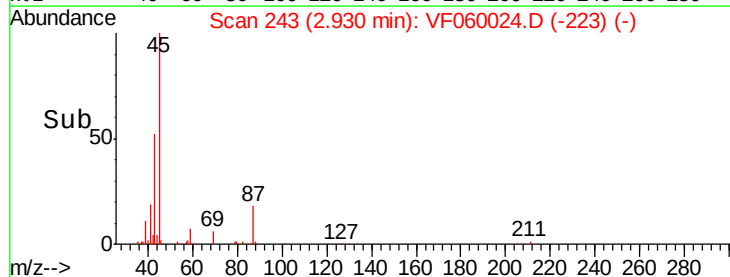
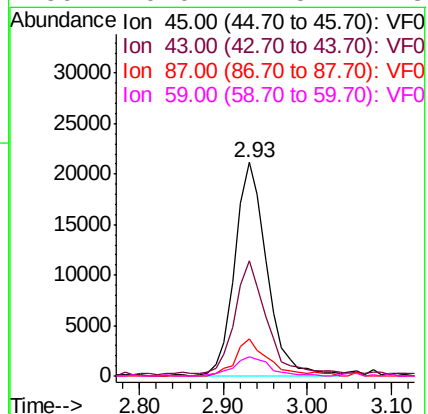
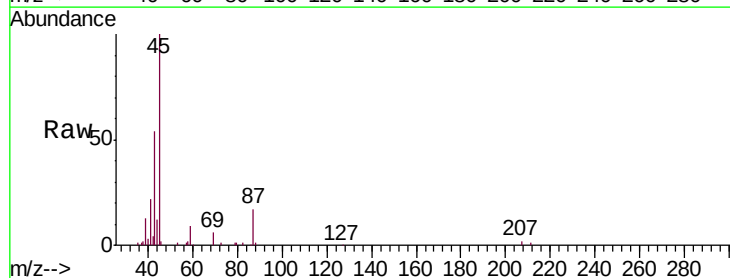
Ion Ratio Lower Upper

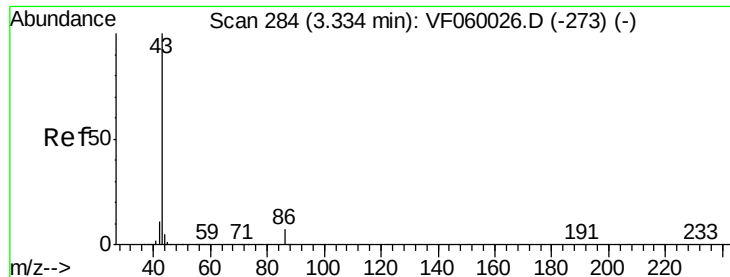
45 100

43 53.8 43.4 65.2

87 17.5 15.4 23.2

59 9.0 7.5 11.3





#23

Vinyl Acetate

Concen: 42.301 ug/l

RT: 3.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampled :

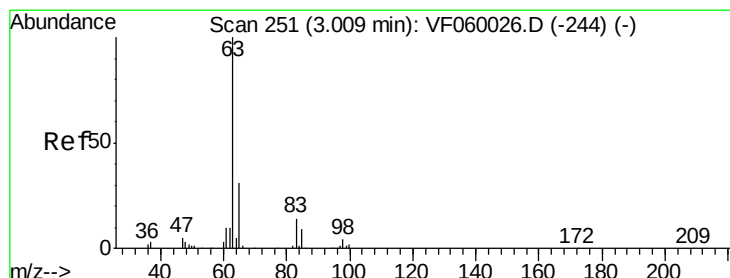
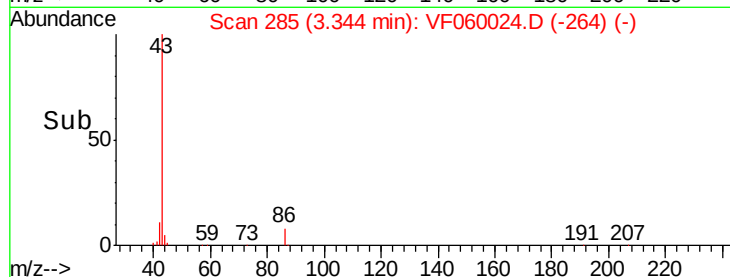
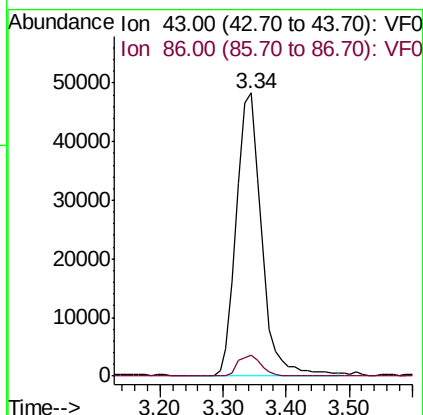
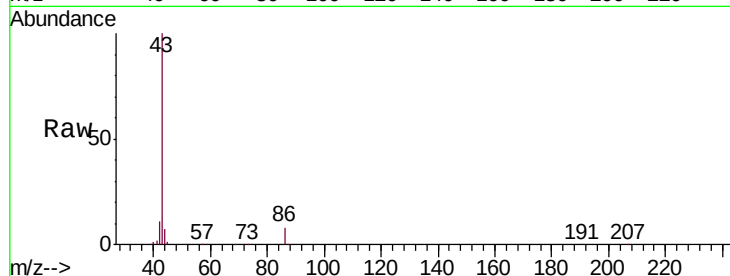
VSTDIC010

Tgt Ion: 43 Resp: 133521

Ion Ratio Lower Upper

43 100

86 7.5 5.6 8.4



#24

1,1-Dichloroethane

Concen: 6.896 ug/l

RT: 3.01 min Scan# 251

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

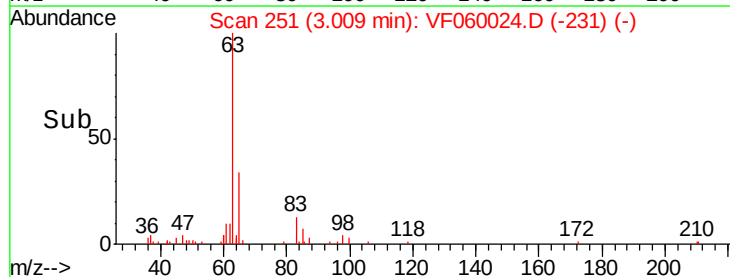
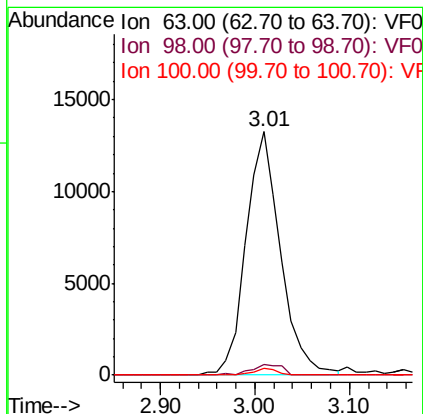
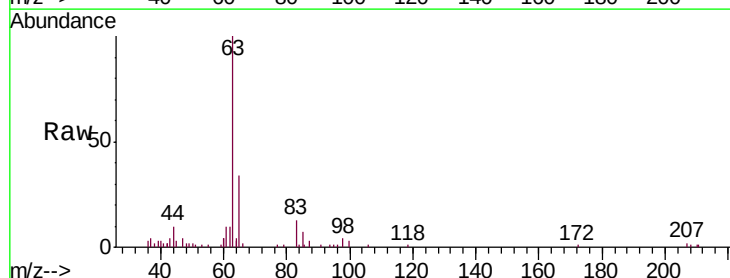
Tgt Ion: 63 Resp: 33621

Ion Ratio Lower Upper

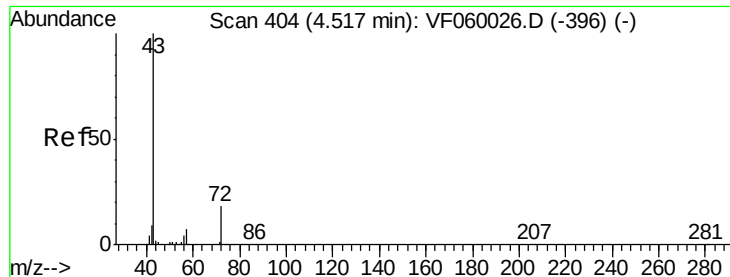
63 100

98 4.2 2.1 6.5

100 2.6 1.1 3.3







#25

2-Butanone

Concen: 47.145 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

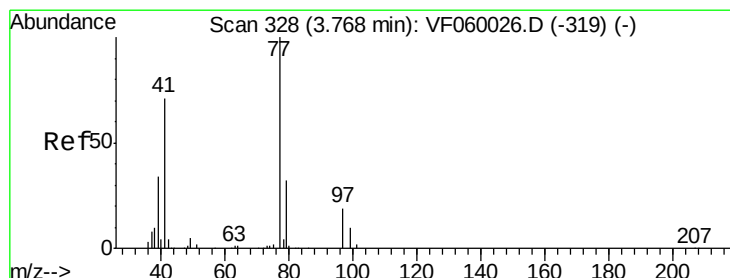
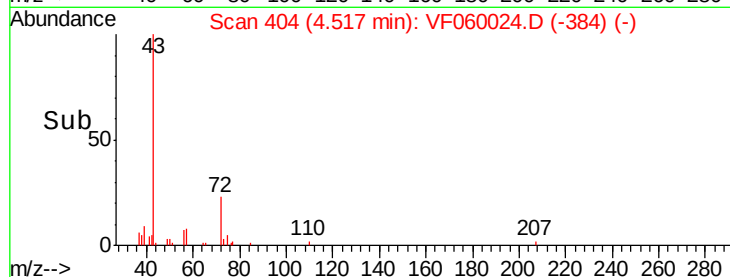
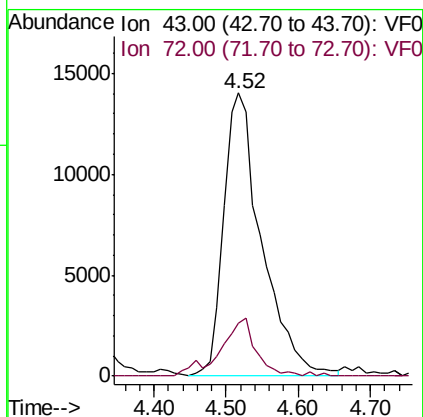
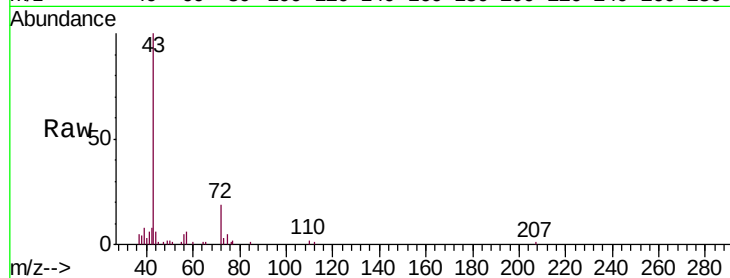
VSTDIC010

Tgt Ion: 43 Resp: 51459

Ion Ratio Lower Upper

43 100

72 18.6 15.0 22.6



#26

2,2-Dichloropropane

Concen: 7.512 ug/l

RT: 3.77 min Scan# 328

Delta R.T. 0.00 min

Lab File: VF060024.D

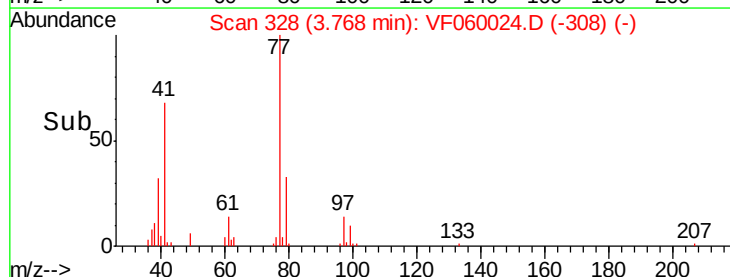
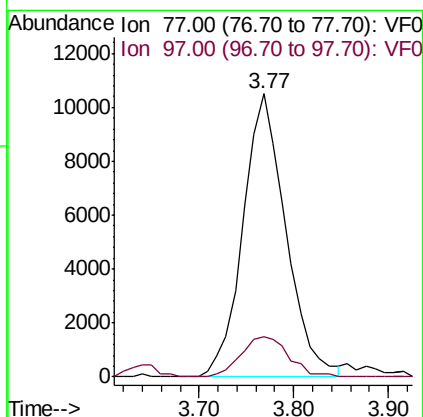
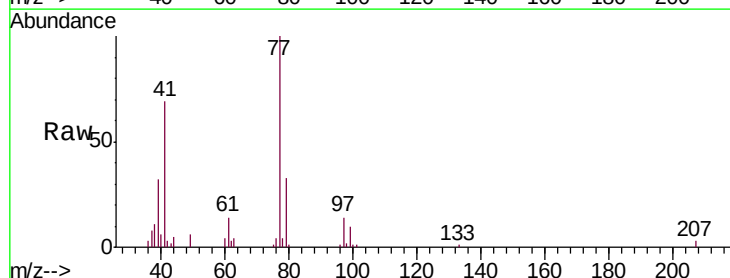
Acq: 21 Aug 2018 17:27

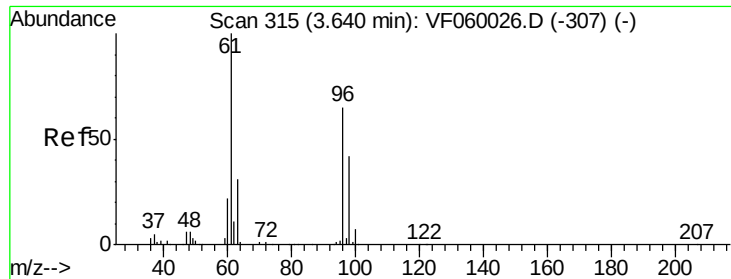
Tgt Ion: 77 Resp: 33071

Ion Ratio Lower Upper

77 100

97 14.3 9.7 29.1



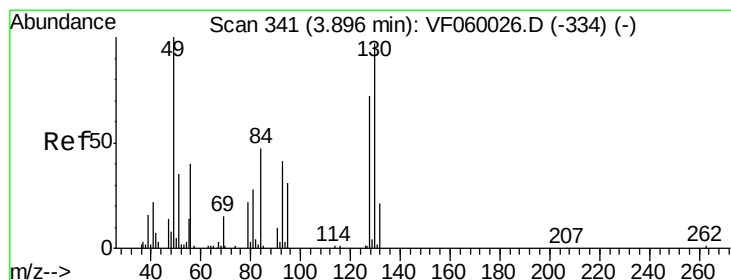
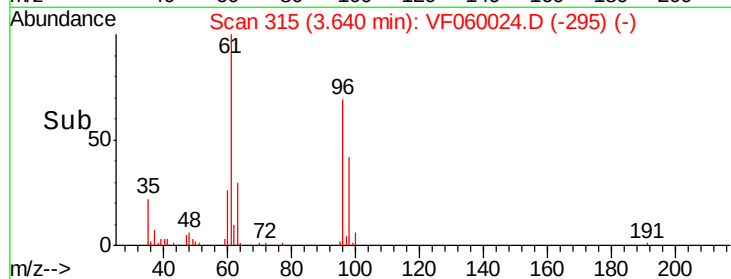
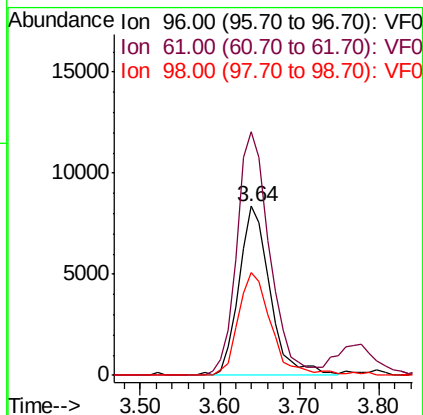
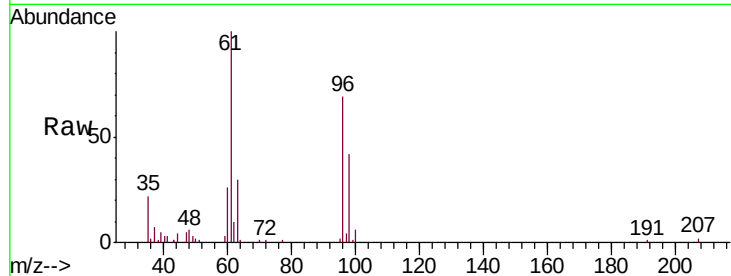


#27

cis-1,2-Dichloroethene  
 Concen: 10.430 ug/l  
 RT: 3.64 min Scan# 315  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

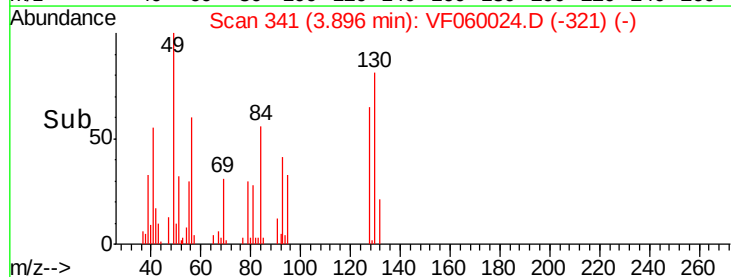
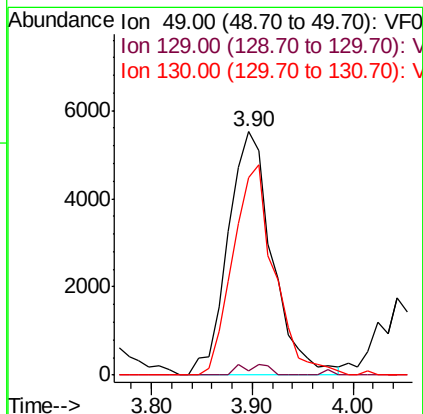
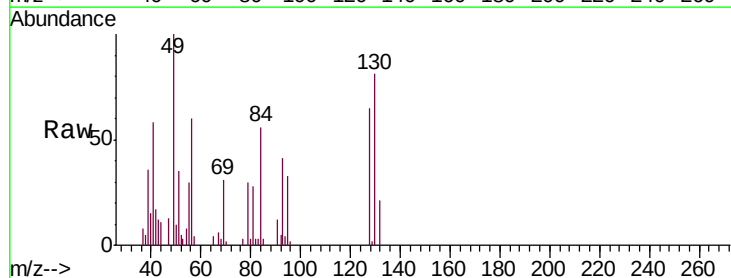
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 144.1 | 0.0   | 307.6 |
| 98      | 61.2  | 0.0   | 128.4 |

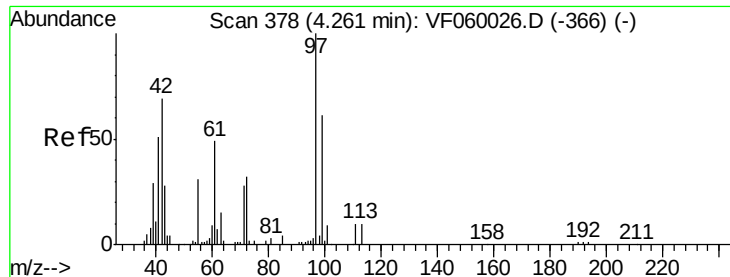


#28

Bromochloromethane  
 Concen: 11.230 ug/l  
 RT: 3.90 min Scan# 341  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.0   | 0.0   | 7.4   |
| 130     | 80.9  | 78.0  | 117.0 |





#29

Tetrahydrofuran

Concen: 49.667 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

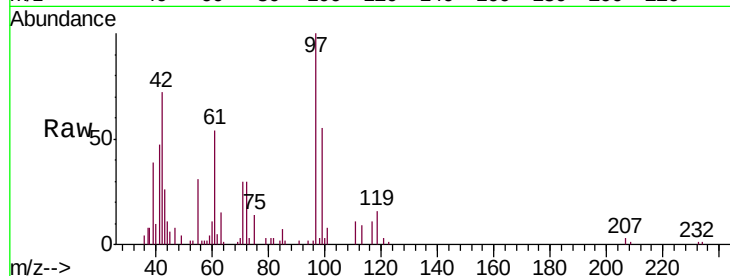
Tgt Ion: 42 Resp: 19448

Ion Ratio Lower Upper

42 100

72 34.7 31.4 47.2

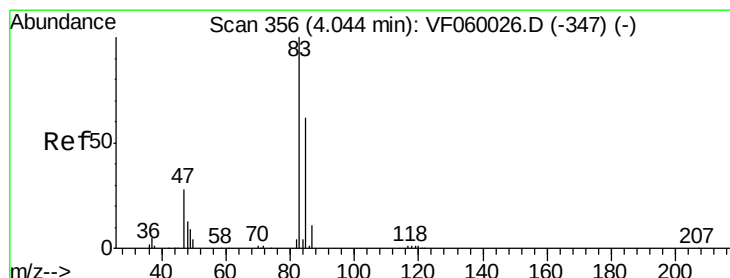
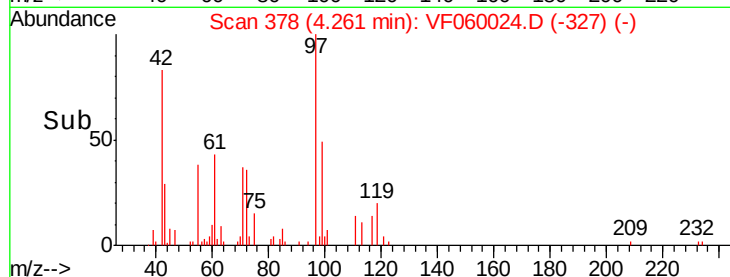
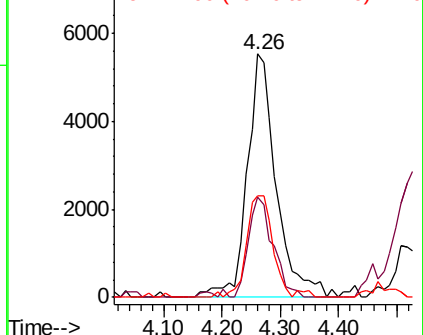
71 37.1 29.7 44.5



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



#30

Chloroform

Concen: 8.404 ug/l

RT: 4.04 min Scan# 356

Delta R.T. 0.00 min

Lab File: VF060024.D

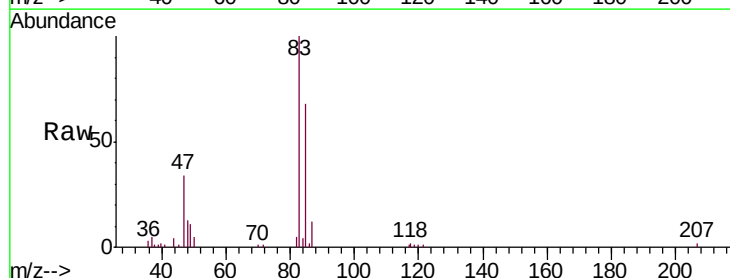
Acq: 21 Aug 2018 17:27

Tgt Ion: 83 Resp: 49164

Ion Ratio Lower Upper

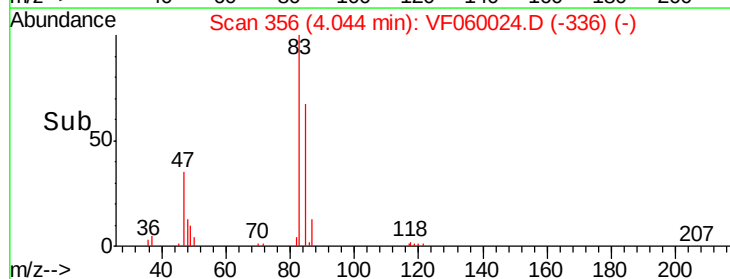
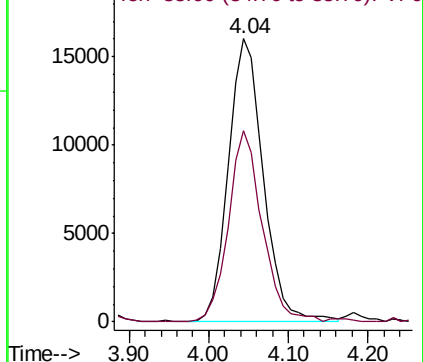
83 100

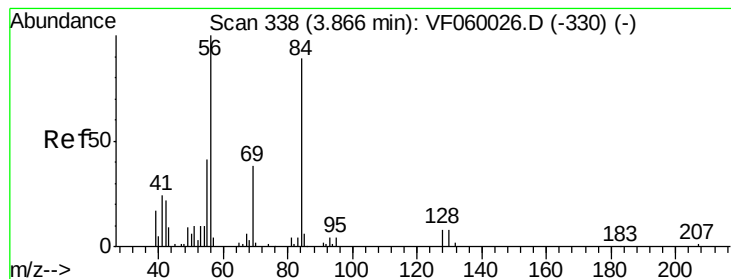
85 67.7 49.5 74.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 11.346 ug/l

RT: 3.87 min Scan# 338

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

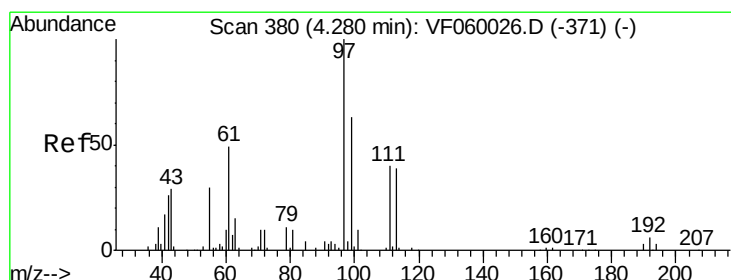
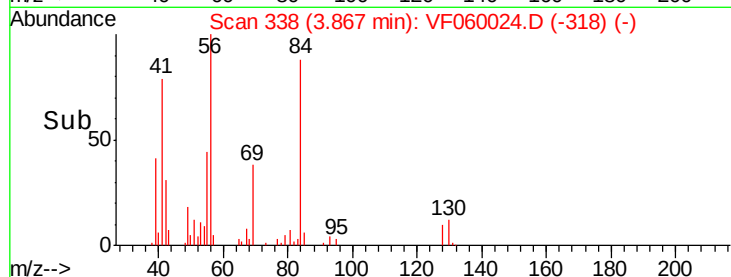
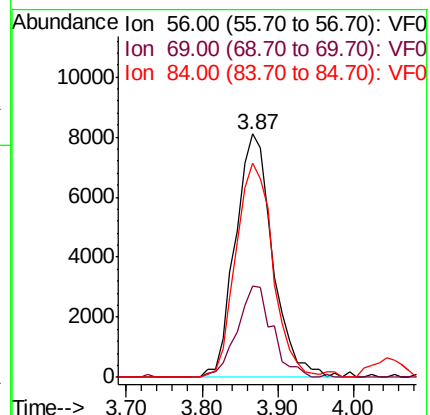
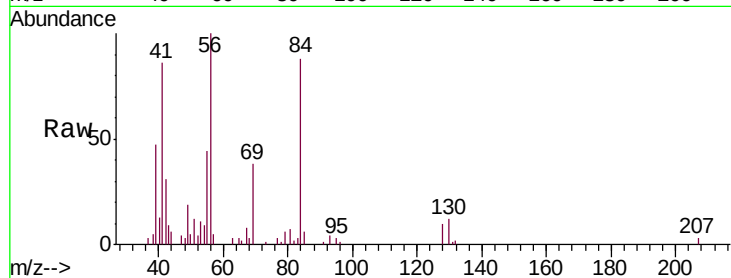
Tgt Ion: 56 Resp: 27644

Ion Ratio Lower Upper

56 100

69 37.6 30.4 45.6

84 88.0 71.4 107.2



#32

1,1,1-Trichloroethane

Concen: 7.565 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

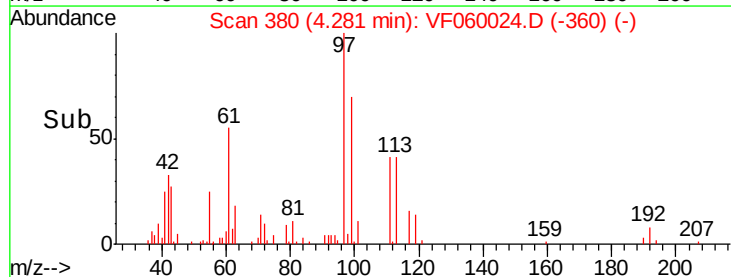
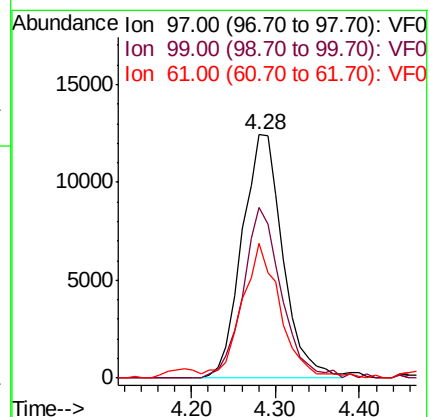
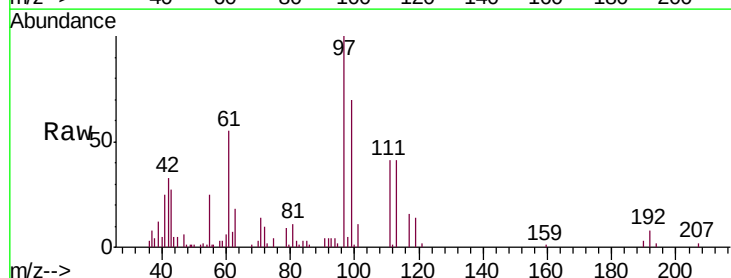
Tgt Ion: 97 Resp: 42263

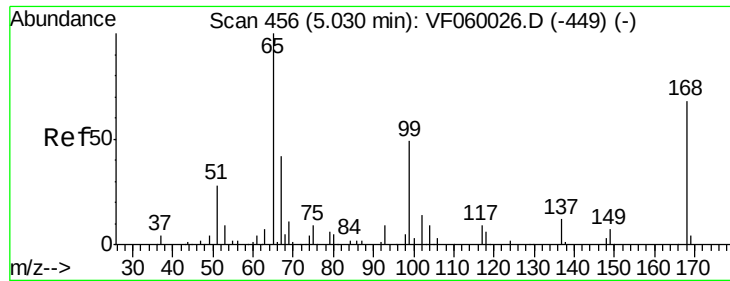
Ion Ratio Lower Upper

97 100

99 70.4 50.3 75.5

61 55.3 40.3 60.5

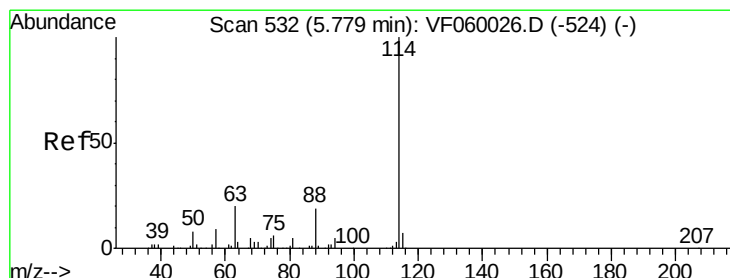
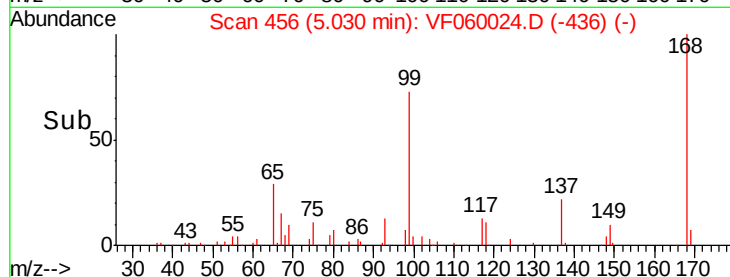
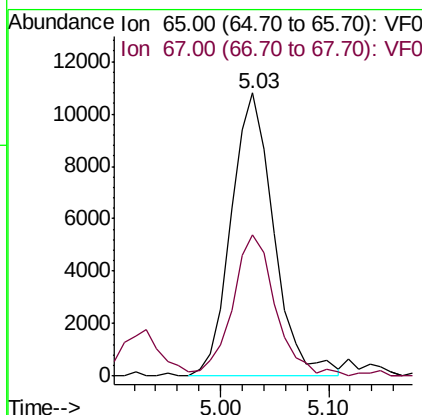
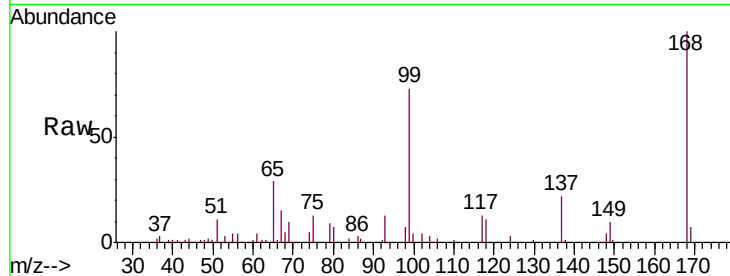




#33  
 1,2-Dichloroethane-d4  
 Concen: 6.954 ug/l  
 RT: 5.03 min Scan# 456  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

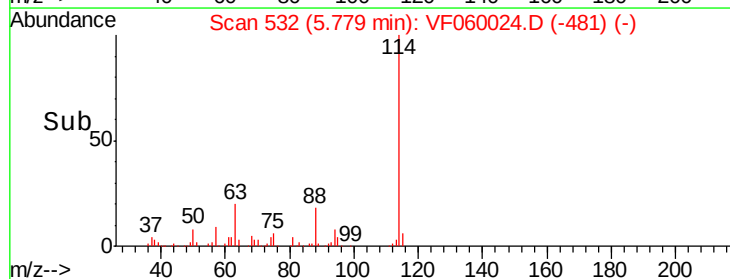
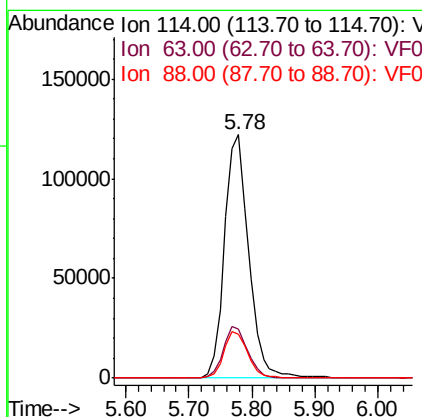
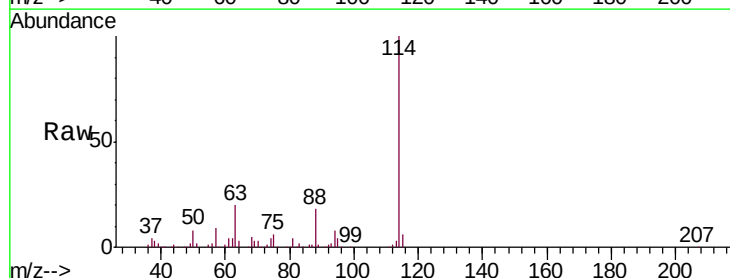
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

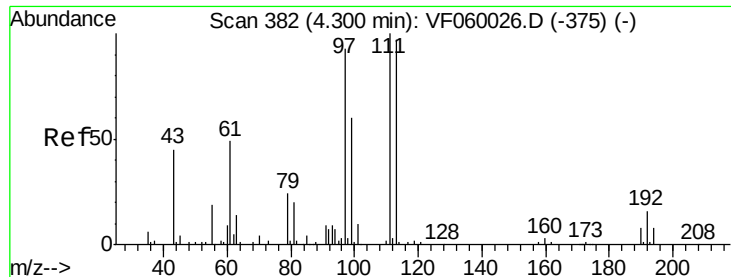
Tgt Ion: 65 Resp: 29568  
 Ion Ratio Lower Upper  
 65 100  
 67 50.1 0.0 92.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.78 min Scan# 532  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

Tgt Ion: 114 Resp: 325664  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 40.4  
 88 18.3 0.0 38.6

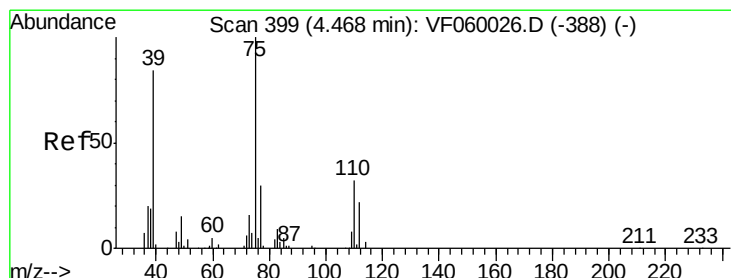
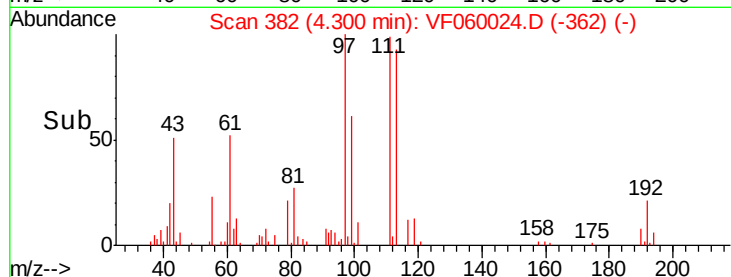
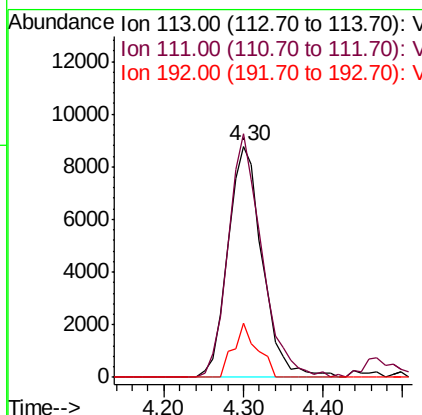
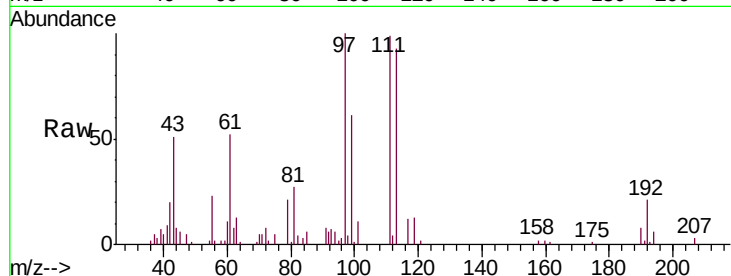




#35  
 Dibromofluoromethane  
 Concen: 8.264 ug/l  
 RT: 4.30 min Scan# 382  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

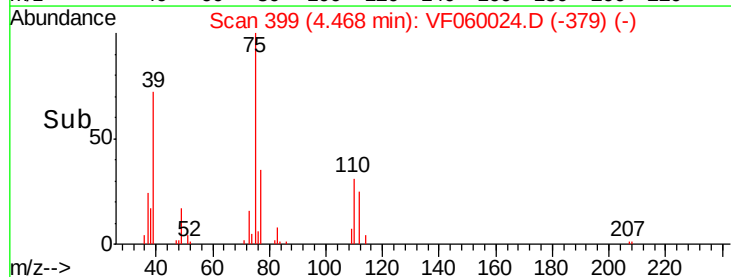
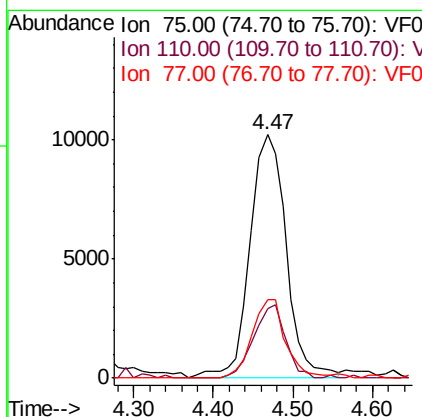
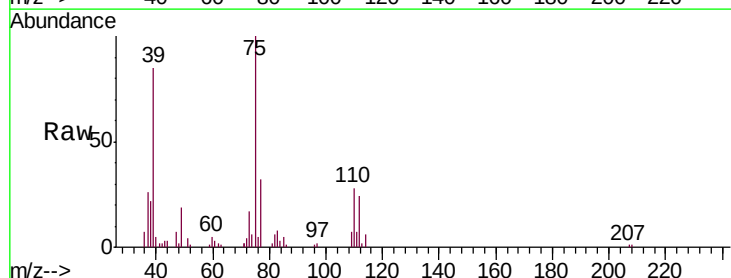
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

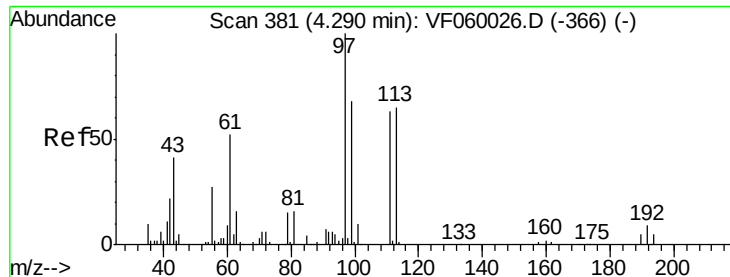
Tgt Ion:113 Resp: 26454  
 Ion Ratio Lower Upper  
 113 100  
 111 105.4 82.7 124.1  
 192 23.7 13.0 19.4#



#36  
 1,1-Dichloropropene  
 Concen: 8.844 ug/l  
 RT: 4.47 min Scan# 399  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

Tgt Ion: 75 Resp: 32290  
 Ion Ratio Lower Upper  
 75 100  
 110 28.4 16.0 47.9  
 77 32.1 24.1 36.1

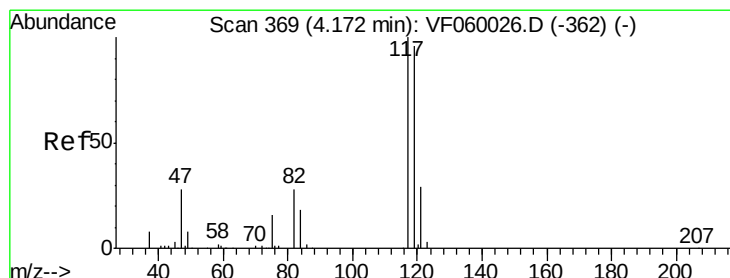
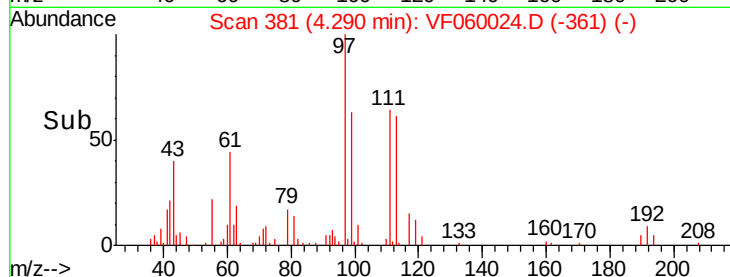
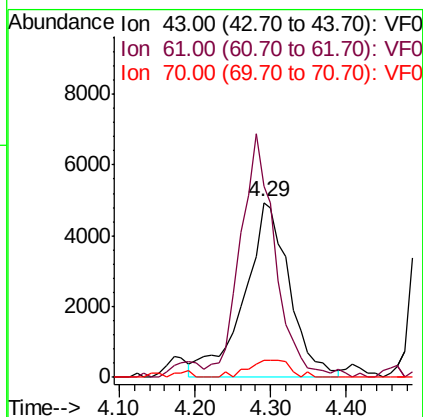
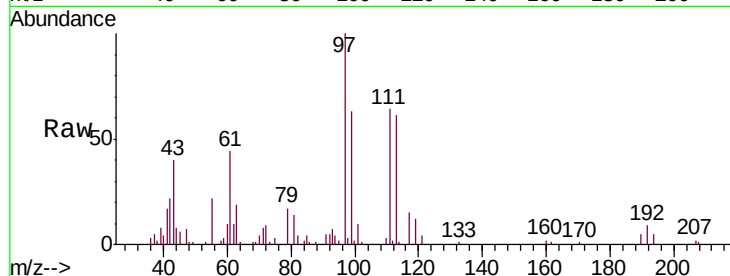




#37  
Ethyl Acetate  
Concen: 10.257 ug/l  
RT: 4.29 min Scan# 381  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

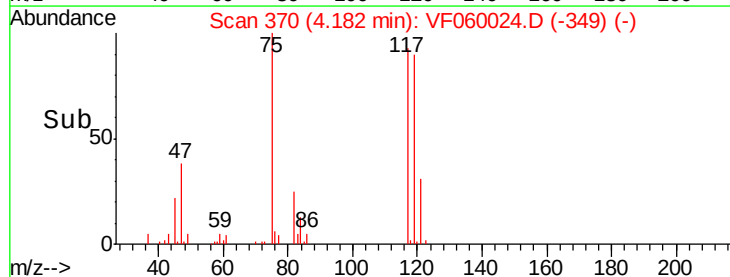
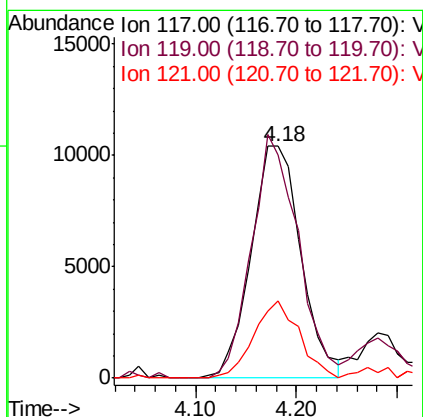
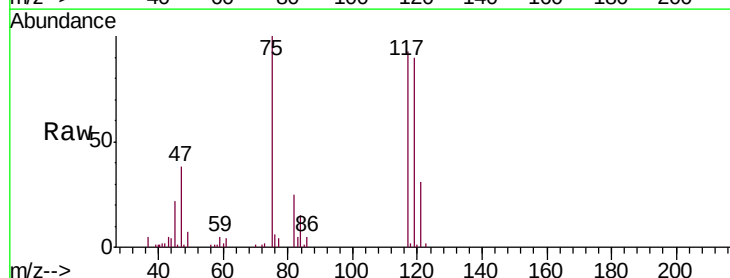
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

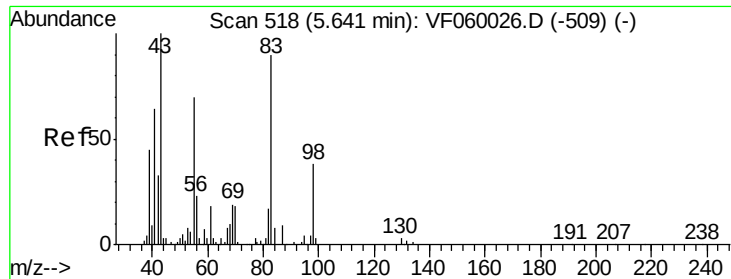
Tgt Ion: 43 Resp: 20485  
Ion Ratio Lower Upper  
43 100  
61 109.3 101.5 152.3  
70 9.6 6.4 9.6#



#38  
Carbon Tetrachloride  
Concen: 7.127 ug/l  
RT: 4.18 min Scan# 370  
Delta R.T. 0.01 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Tgt Ion: 117 Resp: 35911  
Ion Ratio Lower Upper  
117 100  
119 96.4 76.5 114.7  
121 33.1 23.0 34.6

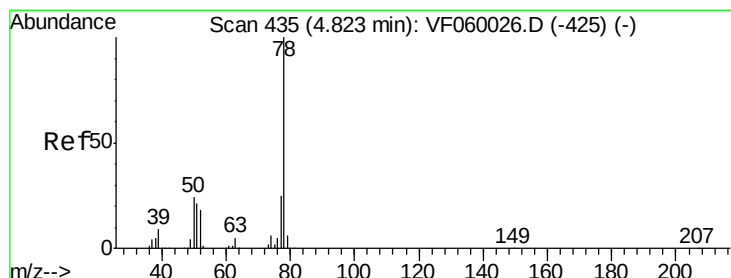
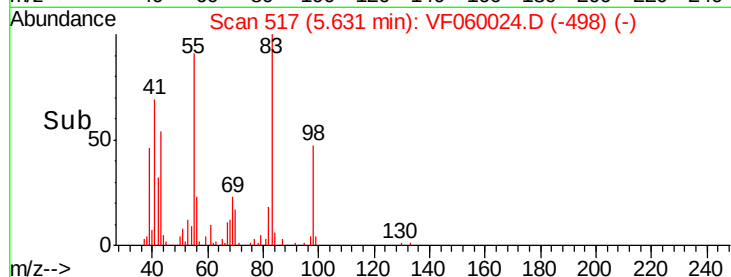
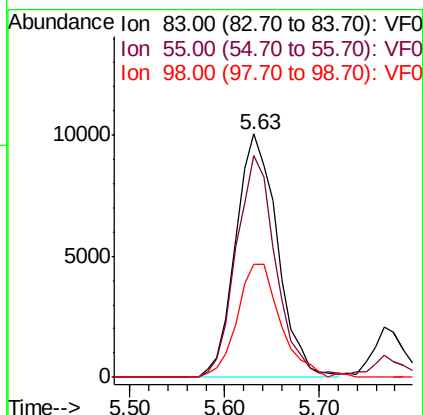
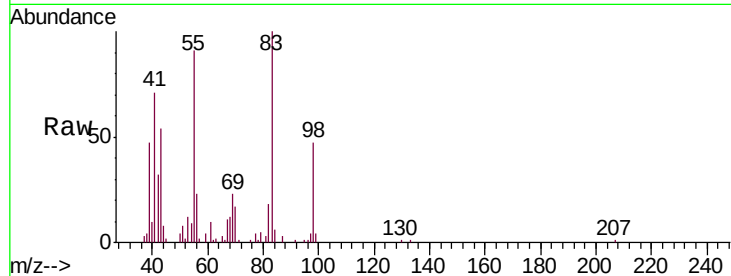




#39  
Methylcyclohexane  
Concen: 11.052 ug/l  
RT: 5.63 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

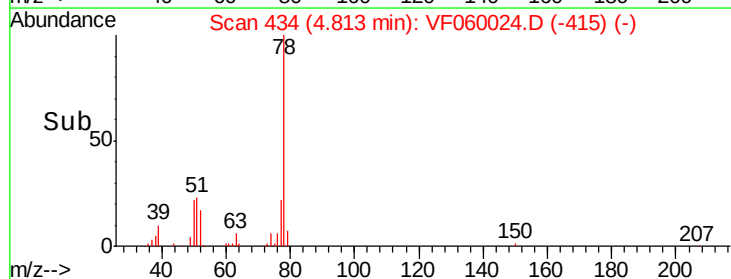
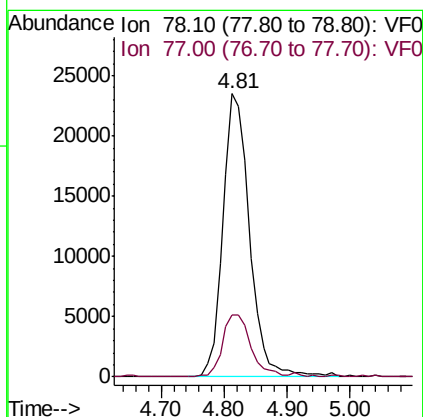
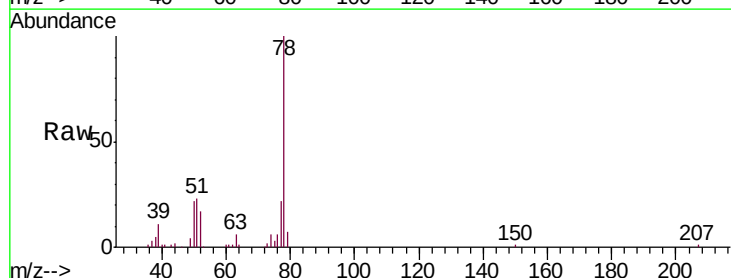
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

Tgt Ion: 83 Resp: 30822  
Ion Ratio Lower Upper  
83 100  
55 91.1 62.7 94.1  
98 46.6 33.8 50.8

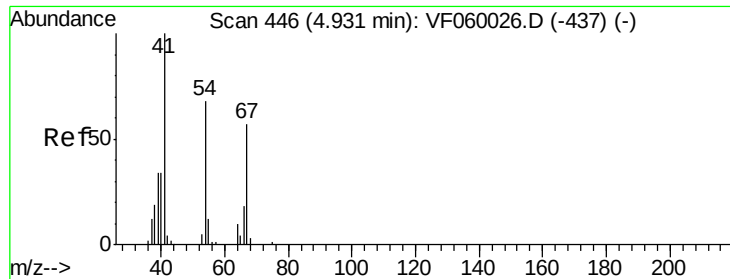


#40  
Benzene  
Concen: 10.984 ug/l  
RT: 4.81 min Scan# 434  
Delta R.T. -0.01 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Tgt Ion: 78 Resp: 68911  
Ion Ratio Lower Upper  
78 100  
77 22.1 19.8 29.6







#41

Methacrylonitrile

Concen: 9.677 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.01 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

Tgt Ion: 41 Resp: 9356

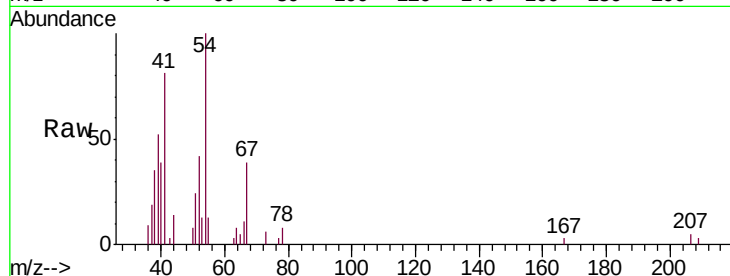
Ion Ratio Lower Upper

41 100

39 63.9 52.9 79.3

67 48.5 45.3 67.9

52 51.5 34.8 52.2

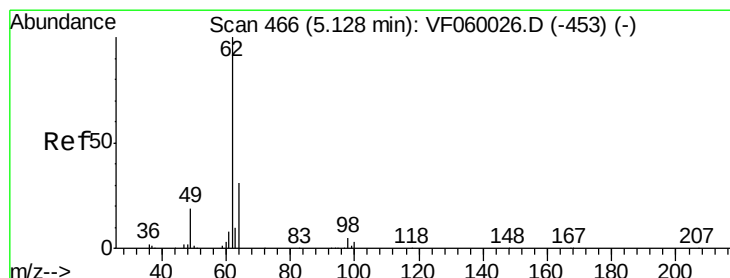
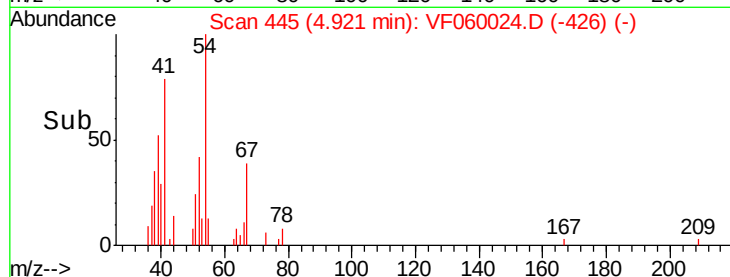
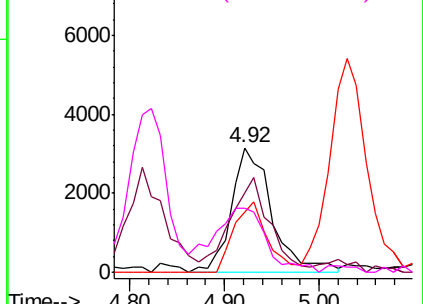


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#42

1,2-Dichloroethane

Concen: 7.358 ug/l

RT: 5.12 min Scan# 465

Delta R.T. -0.01 min

Lab File: VF060024.D

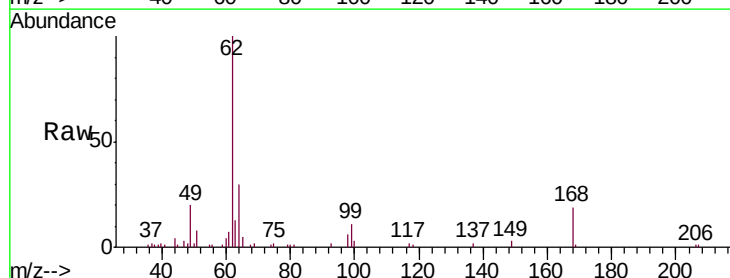
Acq: 21 Aug 2018 17:27

Tgt Ion: 62 Resp: 37040

Ion Ratio Lower Upper

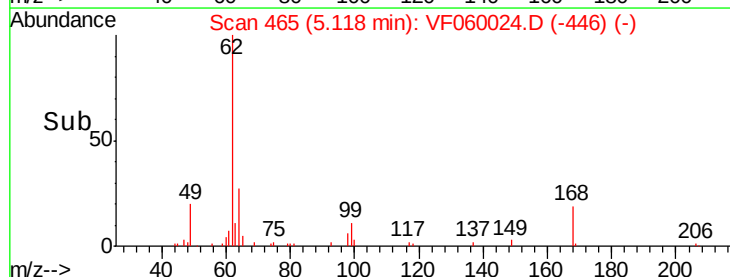
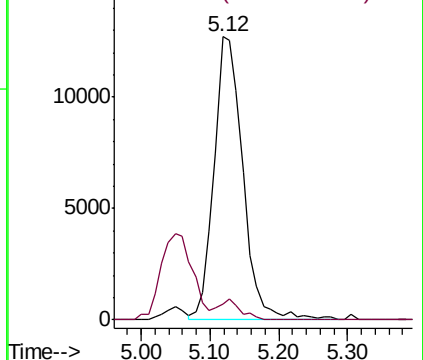
62 100

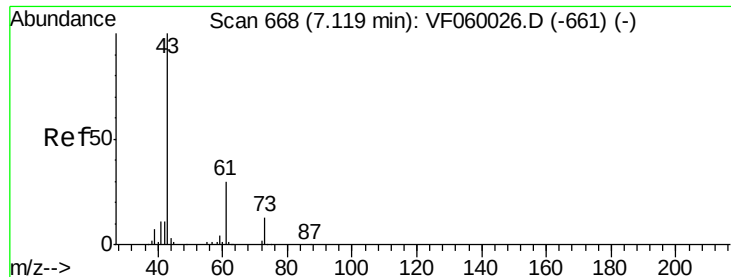
98 5.8 0.0 11.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

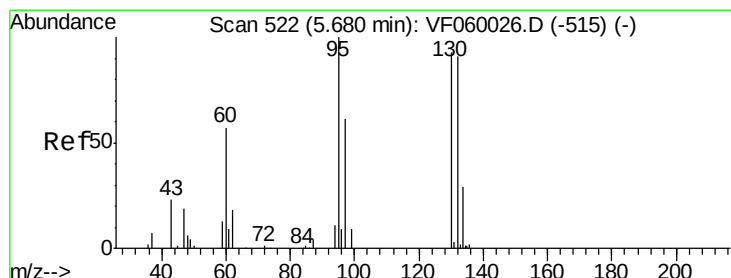
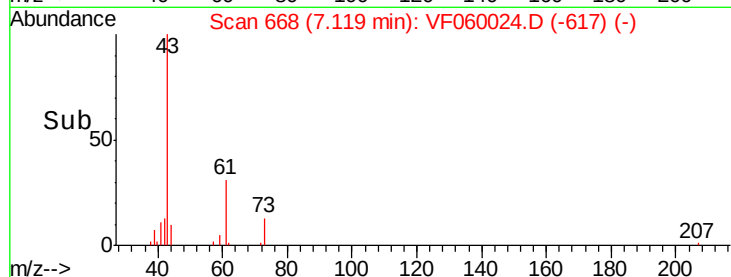
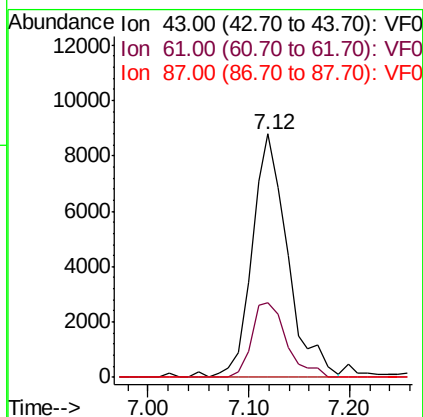
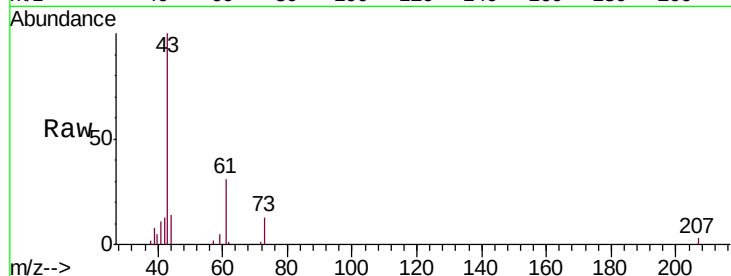




#43  
Isopropyl Acetate  
Concen: 9.499 ug/l  
RT: 7.12 min Scan# 668  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

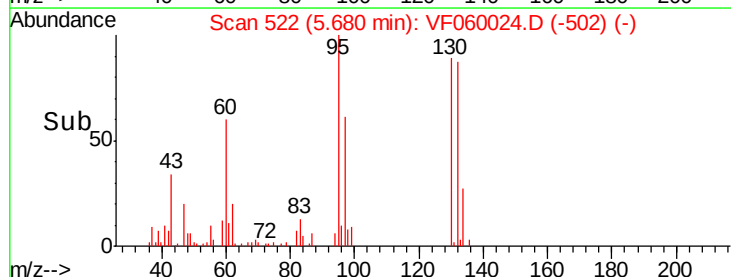
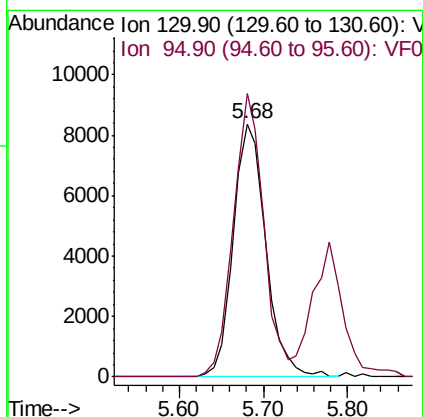
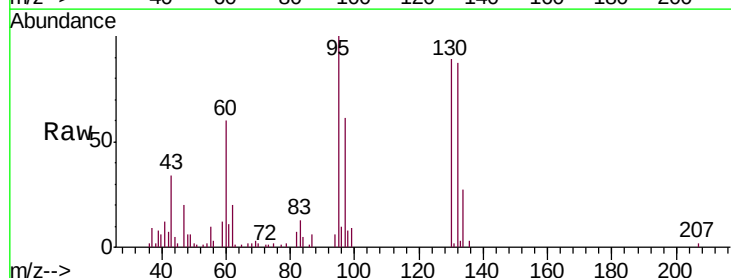
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

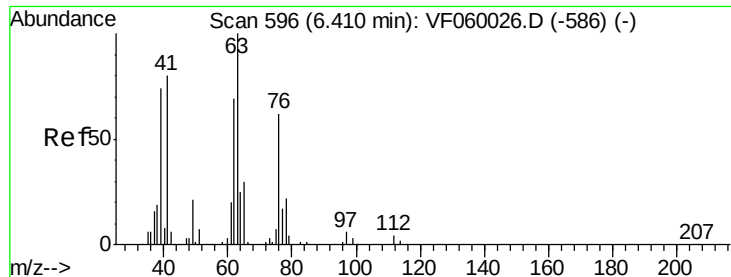
Tgt Ion: 43 Resp: 21509  
Ion Ratio Lower Upper  
43 100  
61 30.6 23.8 35.6  
87 0.0 0.2 0.4#



#44  
Trichloroethene  
Concen: 9.395 ug/l  
RT: 5.68 min Scan# 522  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Tgt Ion: 130 Resp: 22539  
Ion Ratio Lower Upper  
130 100  
95 112.0 0.0 215.8





#45

1,2-Dichloropropane

Concen: 9.794 ug/l

RT: 6.41 min Scan# 596

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

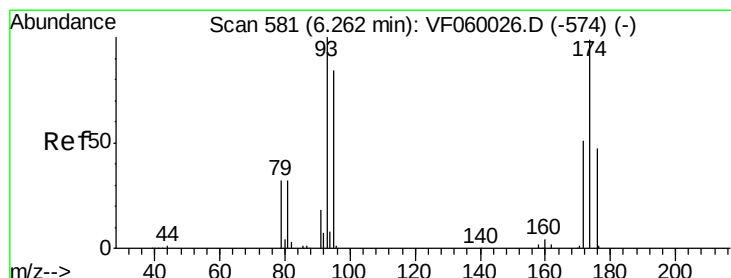
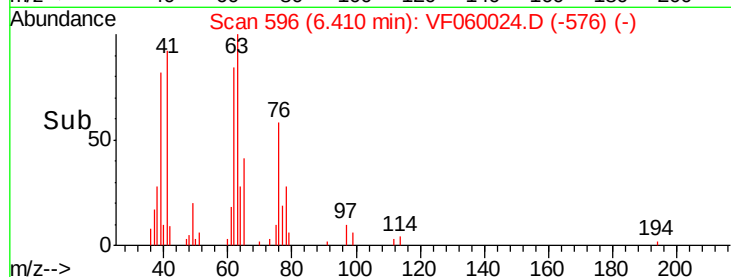
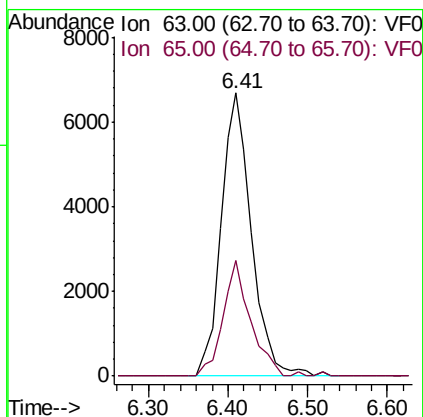
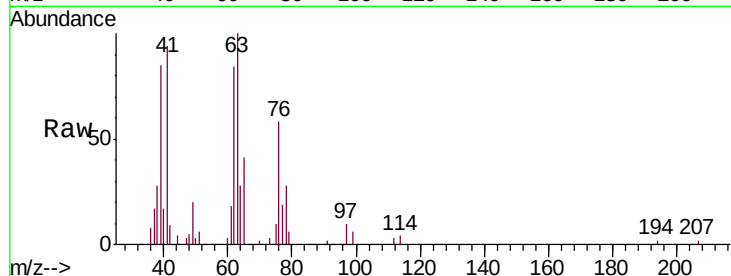
VSTDIC010

Tgt Ion: 63 Resp: 17737

Ion Ratio Lower Upper

63 100

65 40.8 23.8 35.6#



#46

Dibromomethane

Concen: 8.621 ug/l

RT: 6.26 min Scan# 581

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

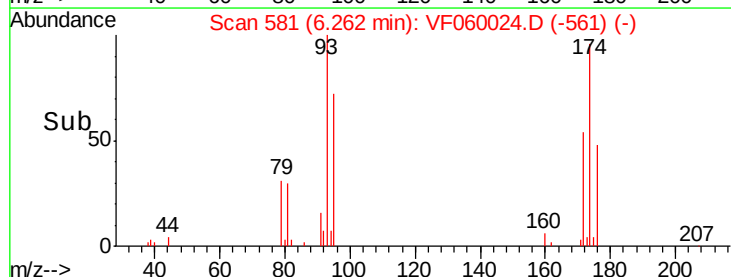
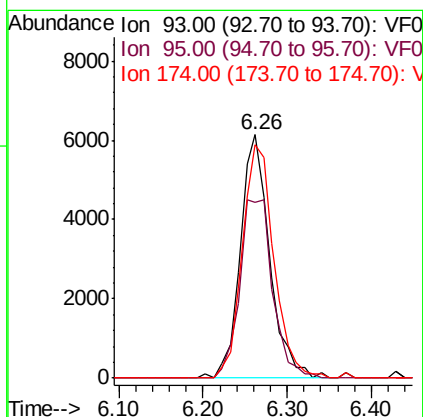
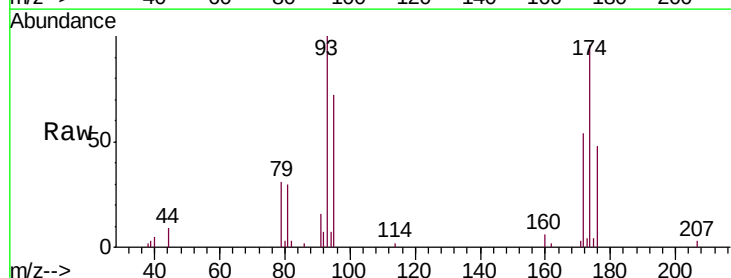
Tgt Ion: 93 Resp: 14948

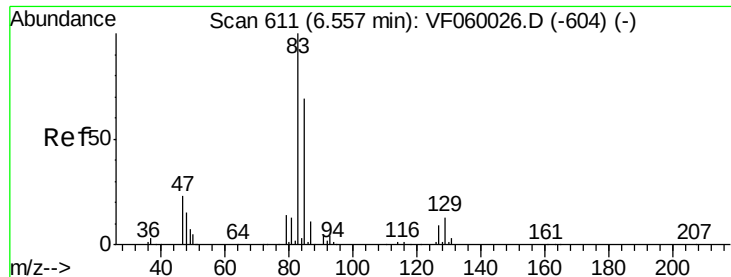
Ion Ratio Lower Upper

93 100

95 72.4 67.1 100.7

174 99.9 79.0 118.4





#47

Bromodichloromethane

Concen: 7.773 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

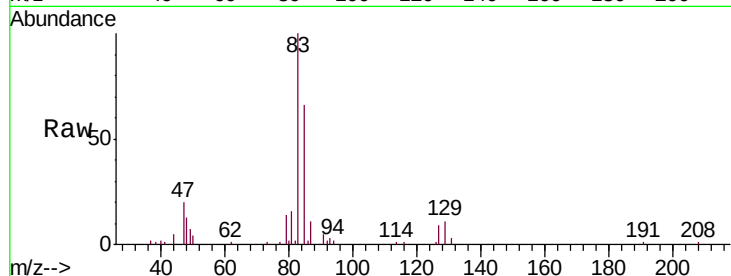
Tgt Ion: 83 Resp: 35504

Ion Ratio Lower Upper

83 100

85 65.9 55.2 82.8

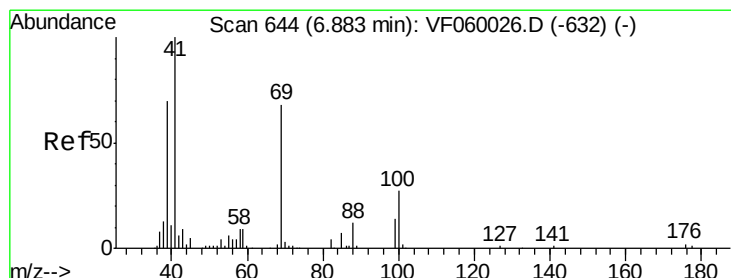
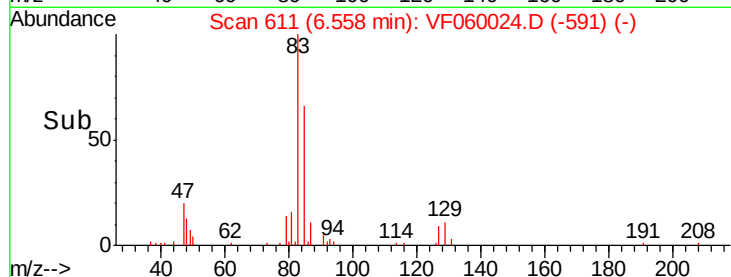
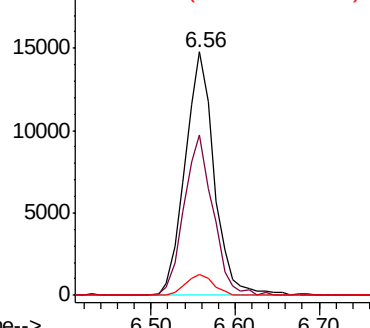
127 8.8 7.3 10.9



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: 8.860 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

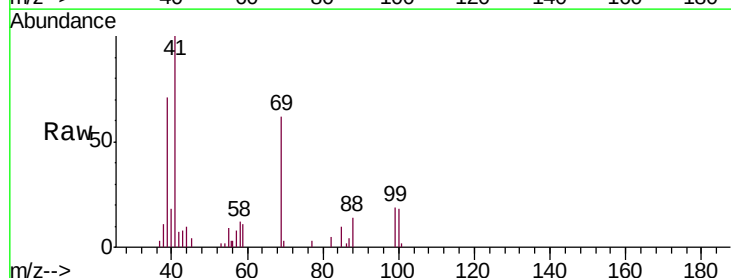
Tgt Ion: 41 Resp: 14616

Ion Ratio Lower Upper

41 100

69 62.3 54.6 81.8

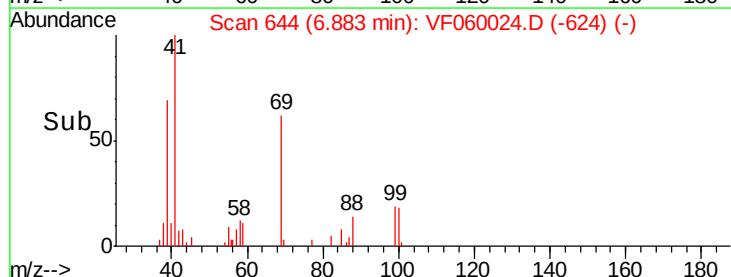
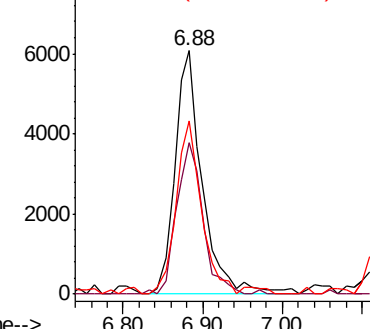
39 71.4 56.5 84.7

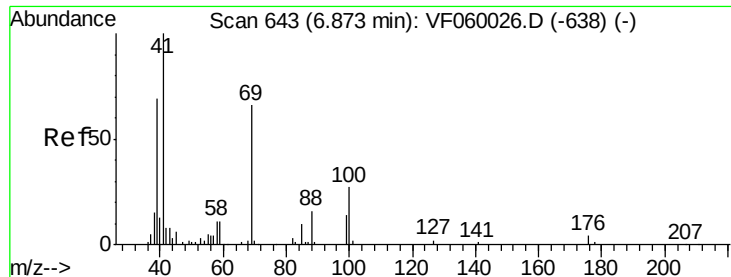


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

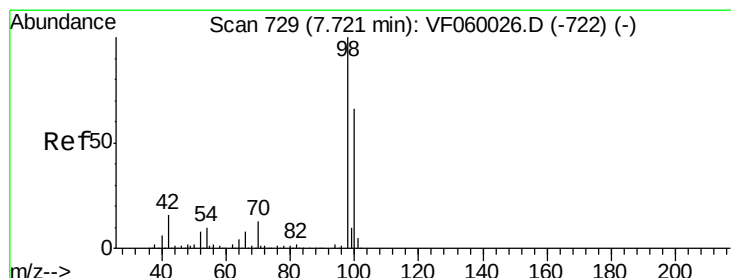
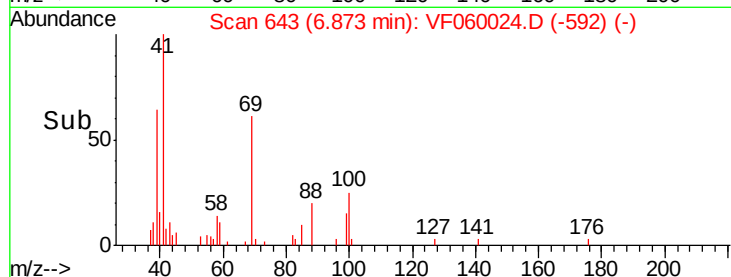
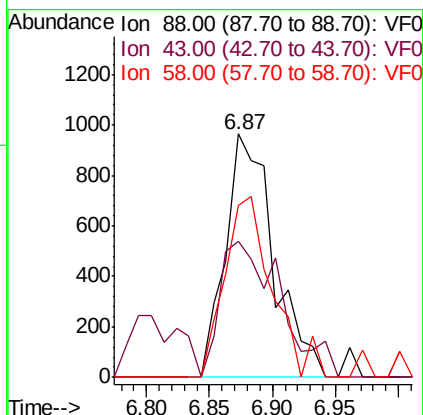
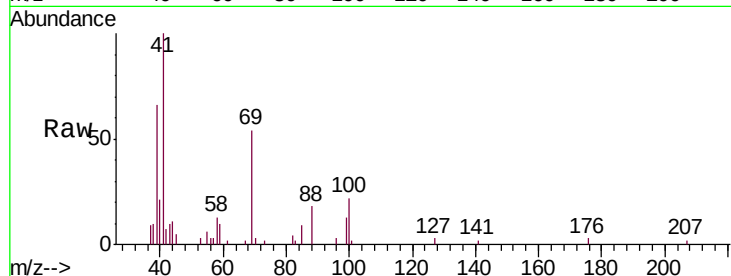




#49  
 1,4-Dioxane  
 Concen: 196.883 ug/l  
 RT: 6.87 min Scan# 643  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

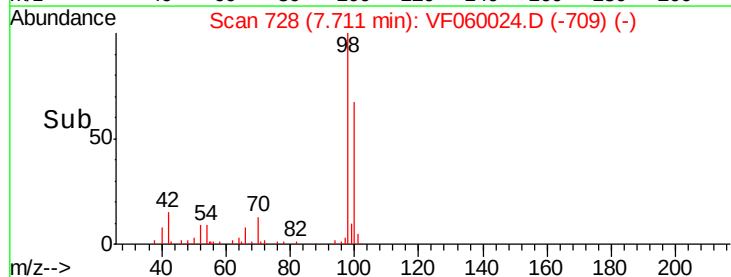
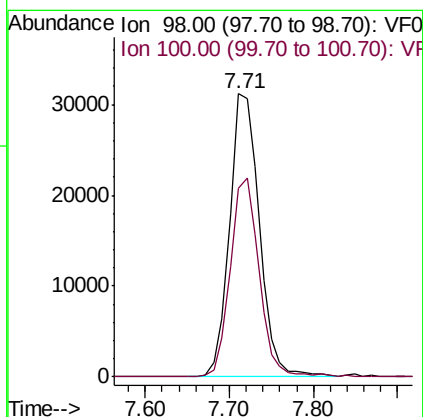
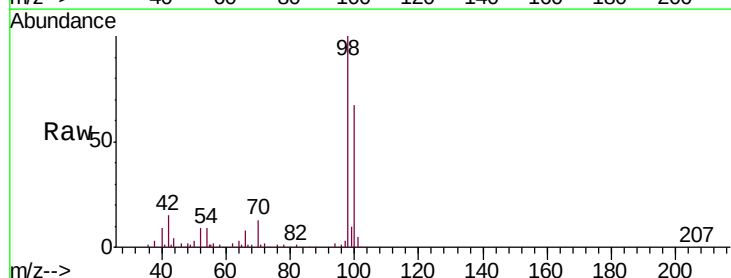
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

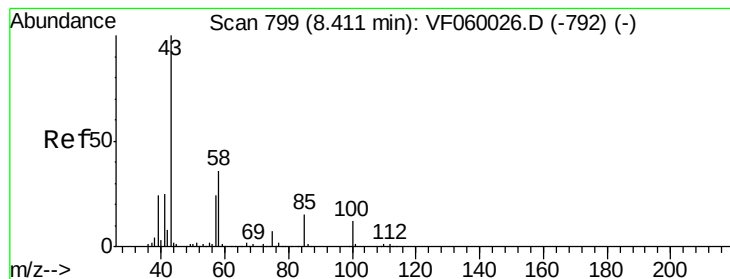
Tgt Ion: 88 Resp: 2550  
 Ion Ratio Lower Upper  
 88 100  
 43 56.0 46.5 69.7  
 58 70.4 54.8 82.2



#50  
 Toluene-d8  
 Concen: 10.521 ug/l  
 RT: 7.71 min Scan# 728  
 Delta R.T. -0.01 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

Tgt Ion: 98 Resp: 77091  
 Ion Ratio Lower Upper  
 98 100  
 100 66.5 53.2 79.8





#51

4-Methyl-2-Pentanone

Concen: 49.847 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

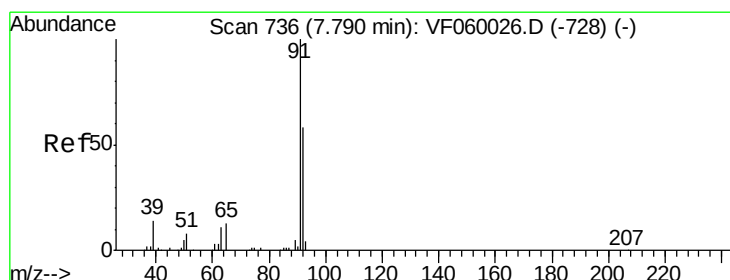
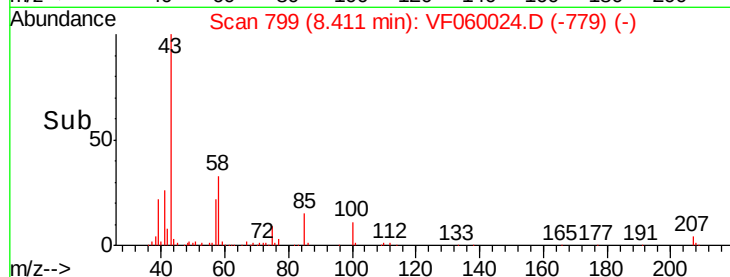
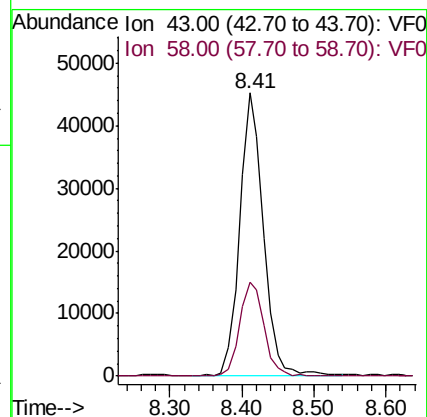
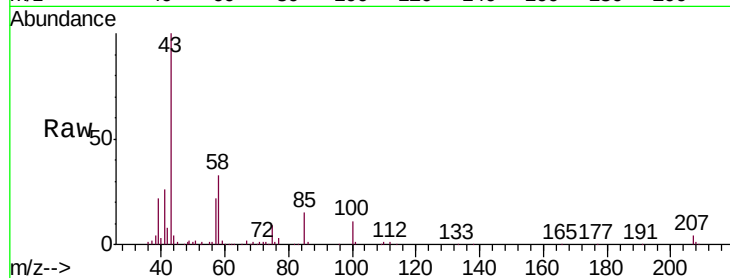
VSTDIC010

Tgt Ion: 43 Resp: 104267

Ion Ratio Lower Upper

43 100

58 33.2 28.6 42.8



#52

Toluene

Concen: 11.329 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF060024.D

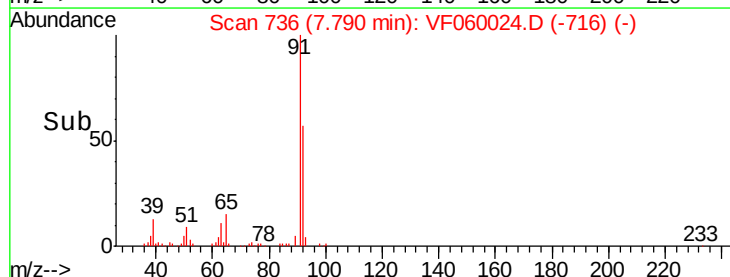
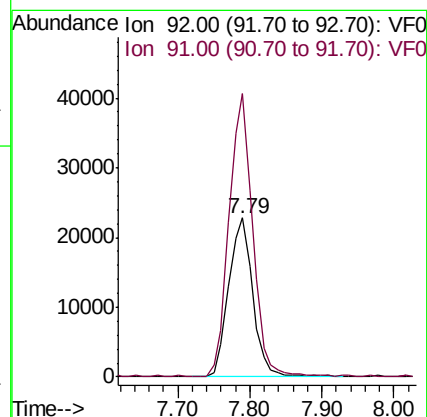
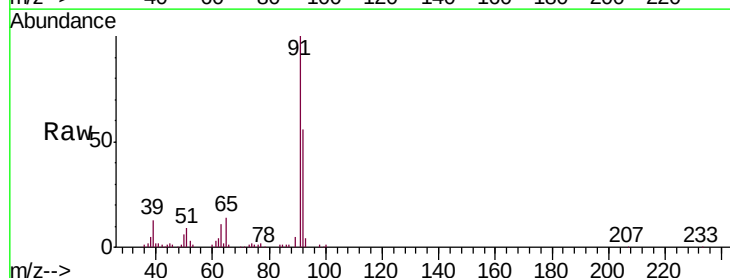
Acq: 21 Aug 2018 17:27

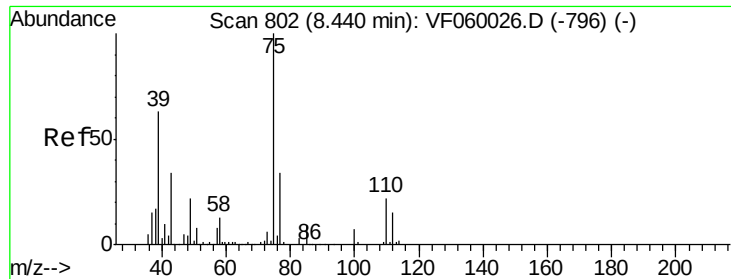
Tgt Ion: 92 Resp: 53145

Ion Ratio Lower Upper

92 100

91 178.0 137.7 206.5





#53

t-1,3-Dichloropropene

Concen: 8.462 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

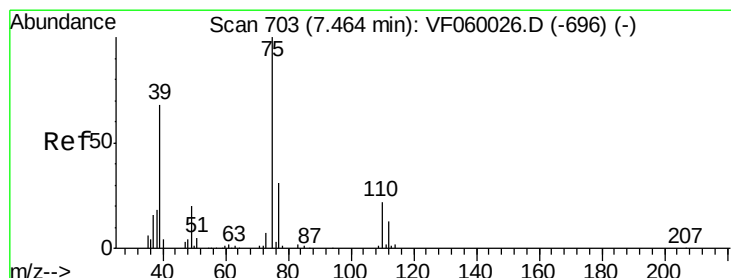
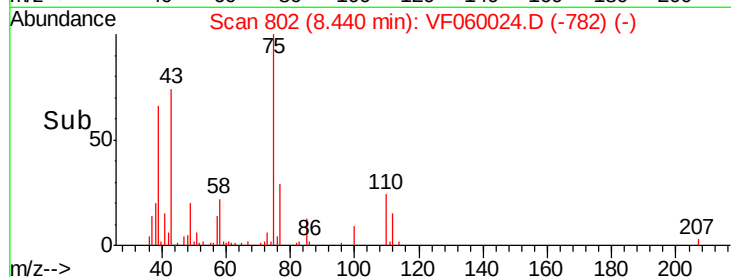
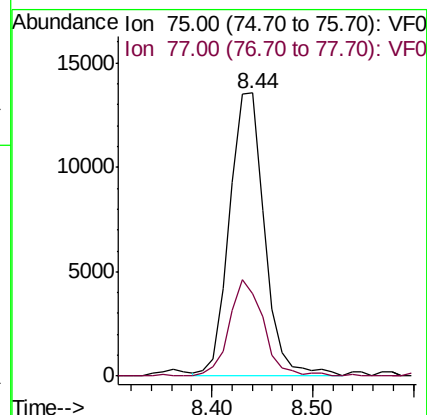
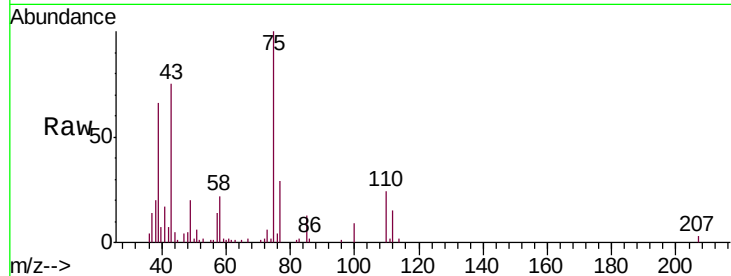
VSTDIC010

Tgt Ion: 75 Resp: 32885

Ion Ratio Lower Upper

75 100

77 29.1 27.4 41.2



#54

cis-1,3-Dichloropropene

Concen: 9.401 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

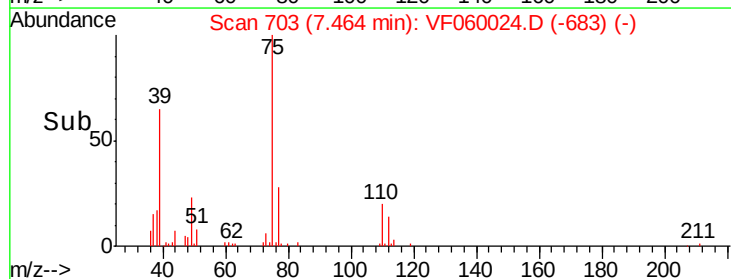
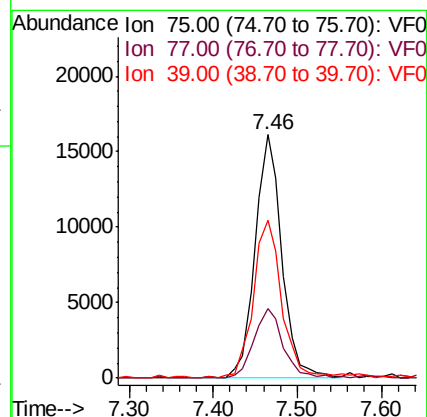
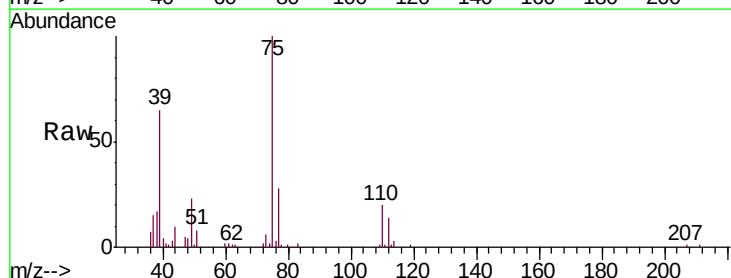
Tgt Ion: 75 Resp: 36104

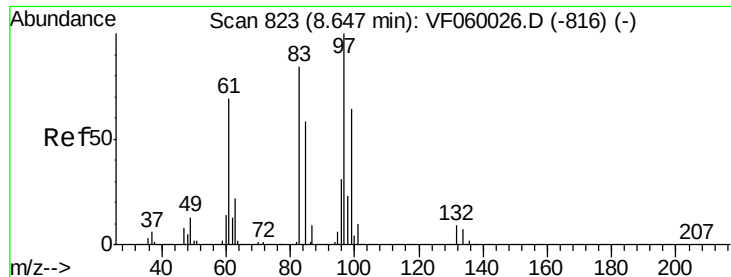
Ion Ratio Lower Upper

75 100

77 28.5 24.6 37.0

39 64.8 54.6 81.8





#55

1,1,2-Trichloroethane

Concen: 8.789 ug/l

RT: 8.65 min Scan# 823

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 16482

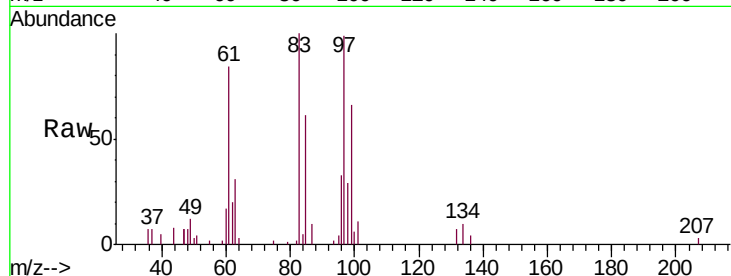
Ion Ratio Lower Upper

97 100

83 101.4 67.4 101.2#

85 61.6 46.2 69.2

99 67.1 51.1 76.7

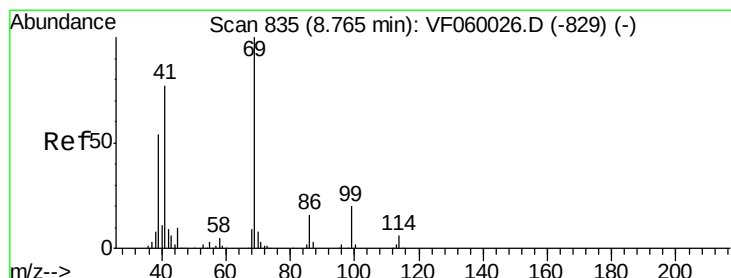
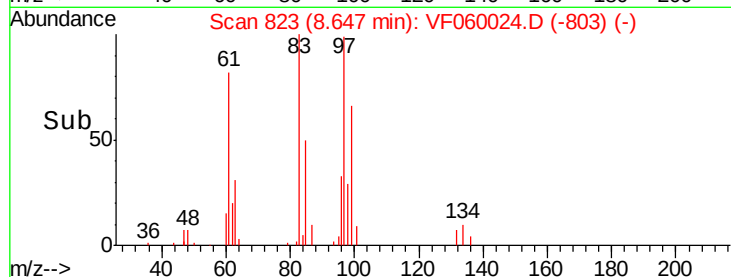
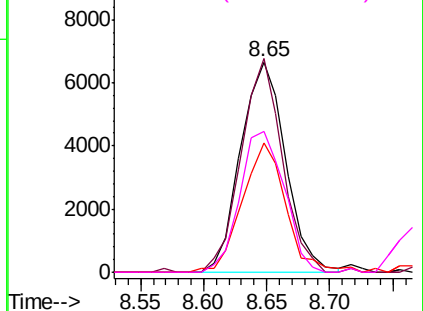


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 9.179 ug/l

RT: 8.77 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

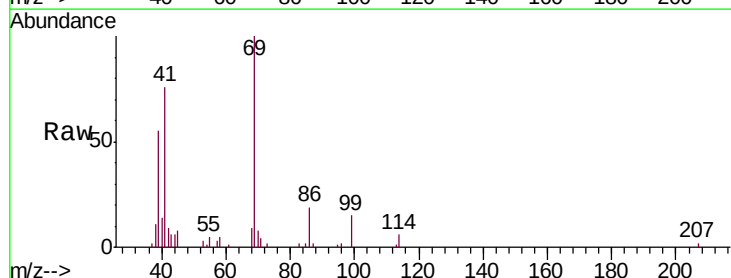
Tgt Ion: 69 Resp: 20041

Ion Ratio Lower Upper

69 100

41 75.5 61.6 92.4

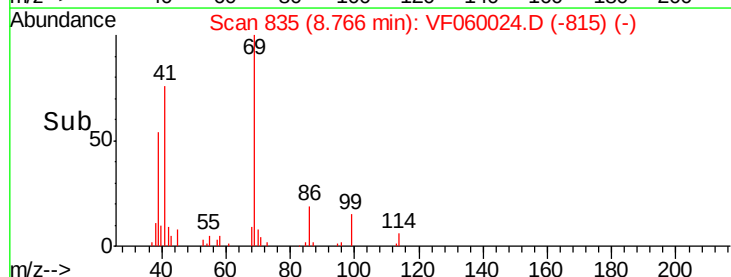
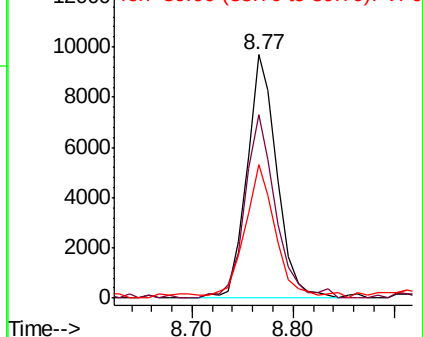
39 55.0 43.9 65.9



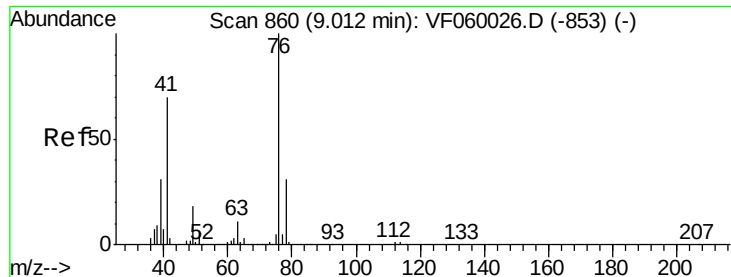
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



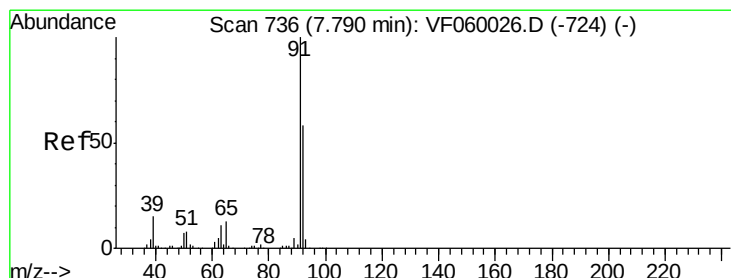
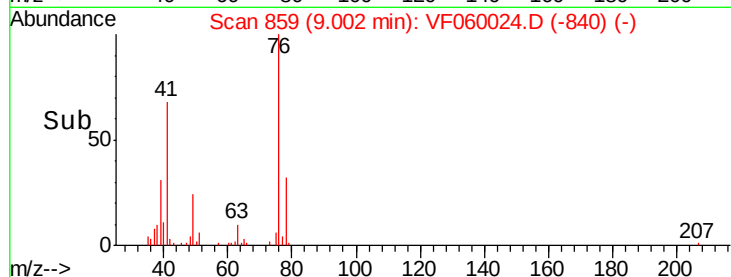
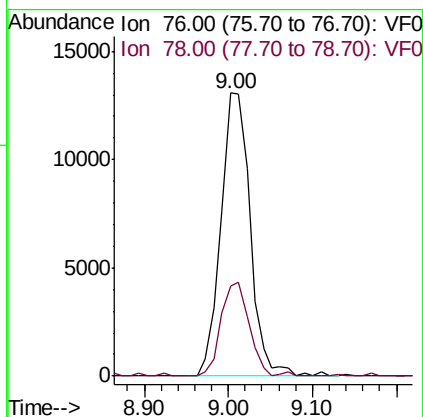
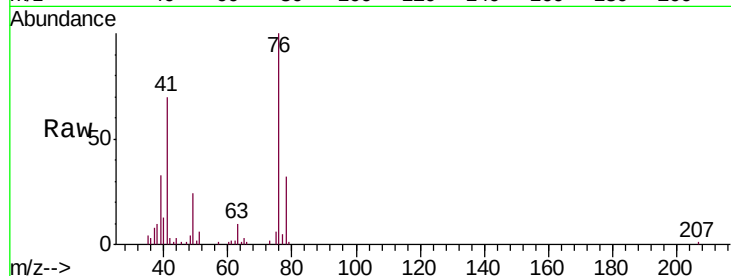




#57  
 1,3-Dichloropropane  
 Concen: 9.451 ug/l  
 RT: 9.00 min Scan# 859  
 Delta R.T. -0.01 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

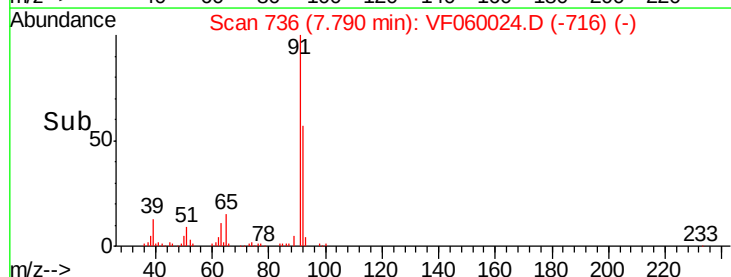
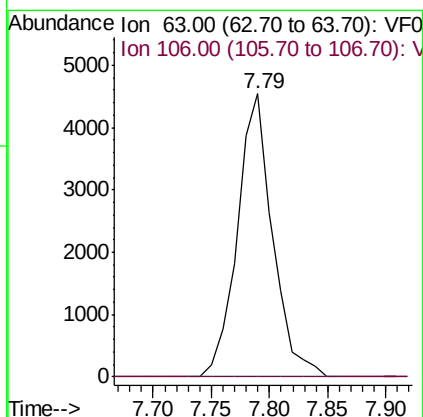
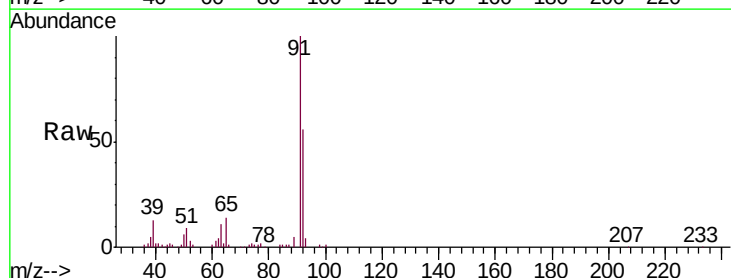
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

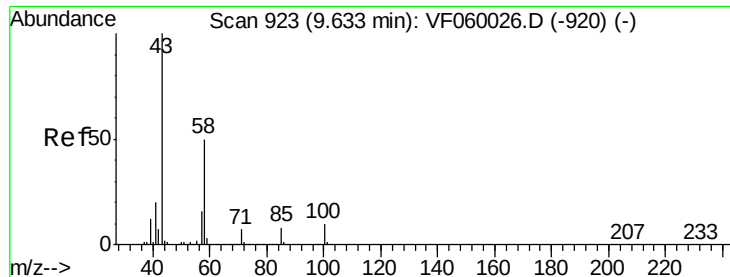
Tgt Ion: 76 Resp: 31665  
 Ion Ratio Lower Upper  
 76 100  
 78 31.8 25.2 37.8



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 54.777 ug/l  
 RT: 7.79 min Scan# 736  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

Tgt Ion: 63 Resp: 9493  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 0.0 0.0

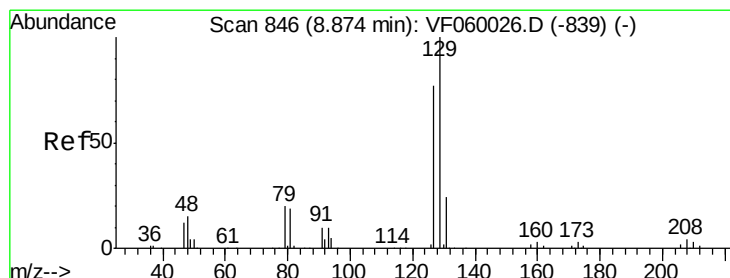
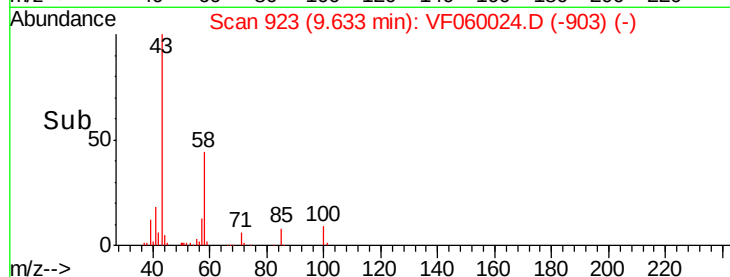
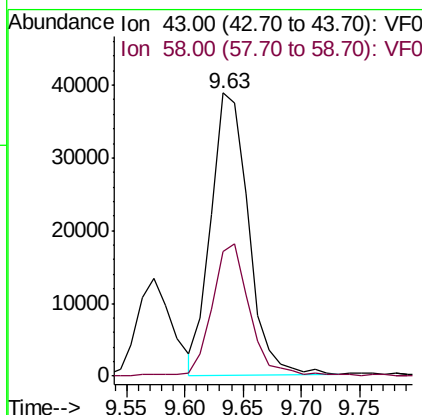
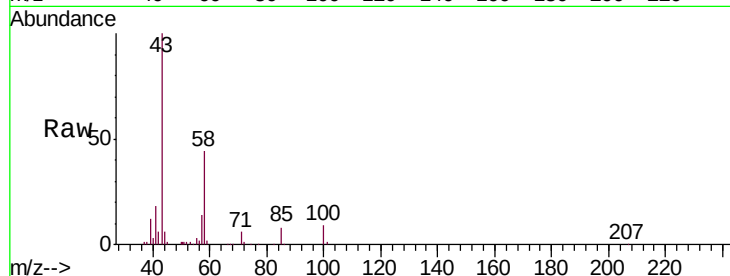




#59  
2-Hexanone  
Concen: 49.987 ug/l  
RT: 9.63 min Scan# 923  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

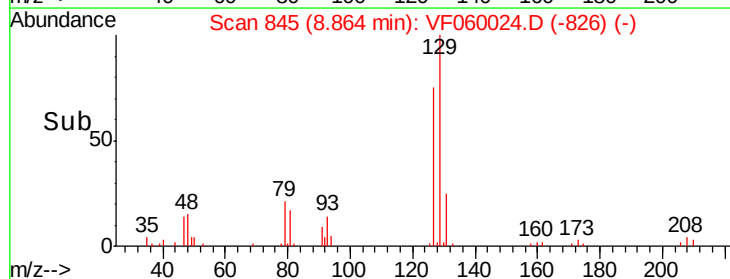
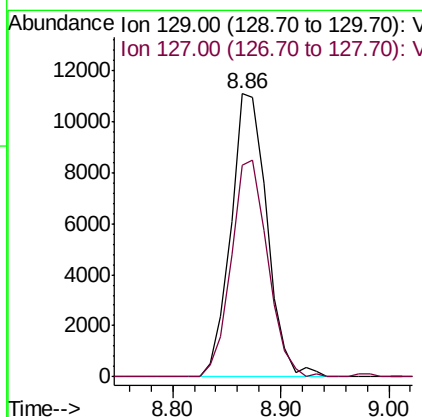
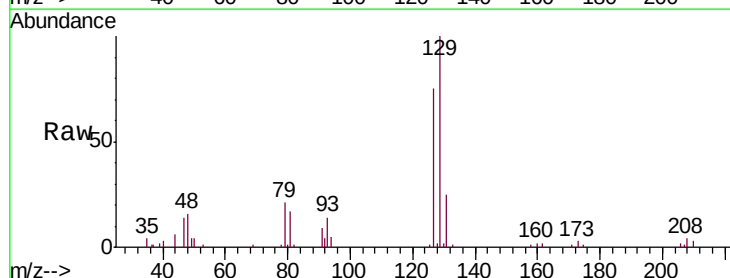
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

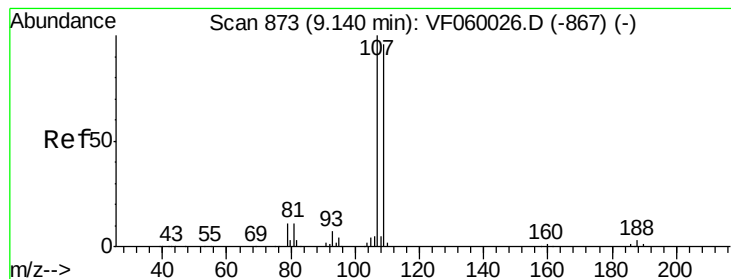
Tgt Ion: 43 Resp: 86452  
Ion Ratio Lower Upper  
43 100  
58 44.2 23.4 70.2



#60  
Dibromochloromethane  
Concen: 7.798 ug/l  
RT: 8.86 min Scan# 845  
Delta R.T. -0.01 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Tgt Ion: 129 Resp: 25738  
Ion Ratio Lower Upper  
129 100  
127 75.0 38.6 115.8





#61

1,2-Dibromoethane

Concen: 9.181 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

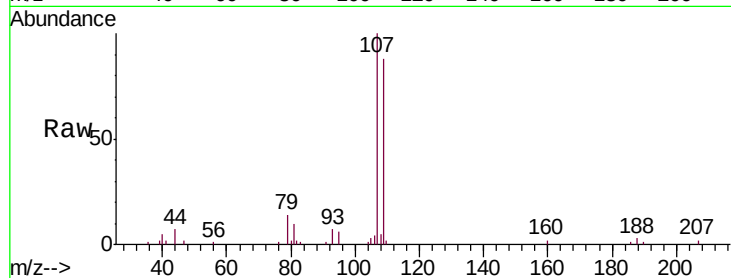
VSTDIC010

Tgt Ion: 107 Resp: 21162

Ion Ratio Lower Upper

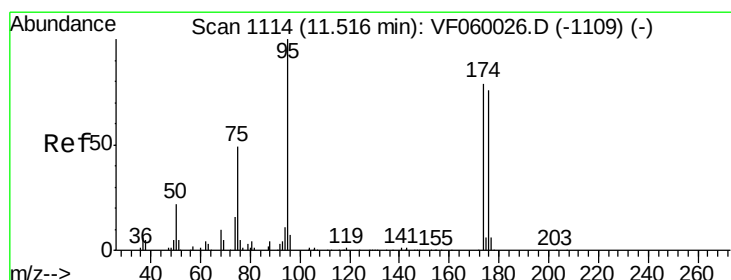
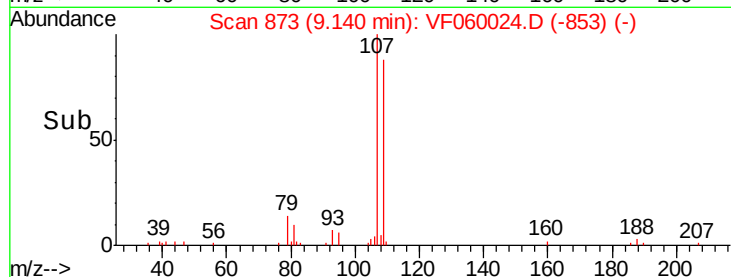
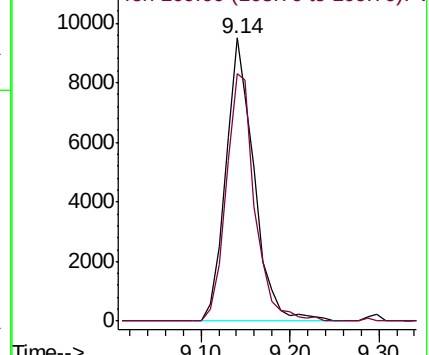
107 100

109 87.6 76.5 114.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 9.591 ug/l

RT: 11.52 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

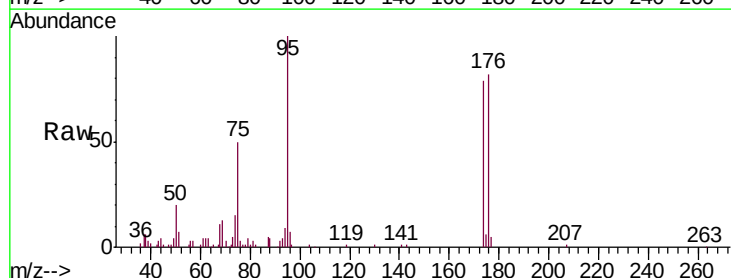
Tgt Ion: 95 Resp: 42043

Ion Ratio Lower Upper

95 100

174 79.0 0.0 158.4

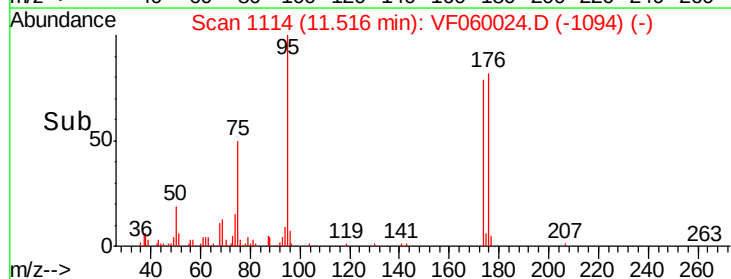
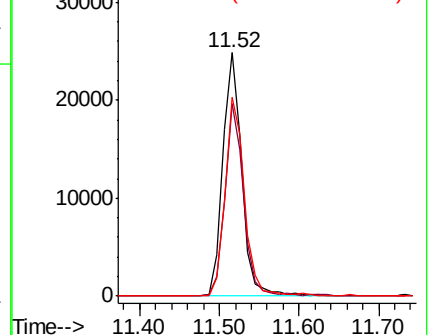
176 81.7 0.0 153.0

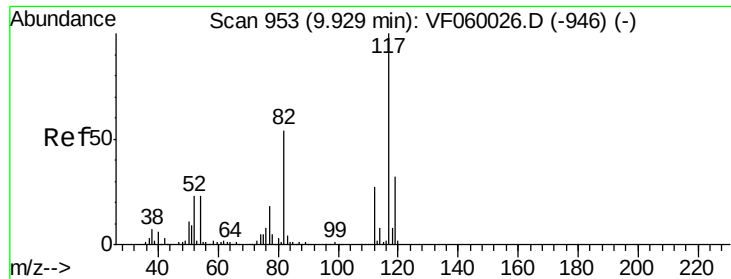


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

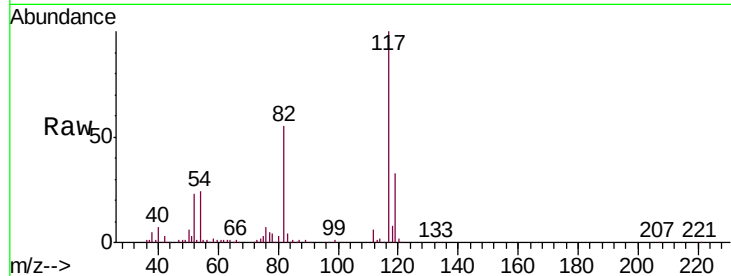




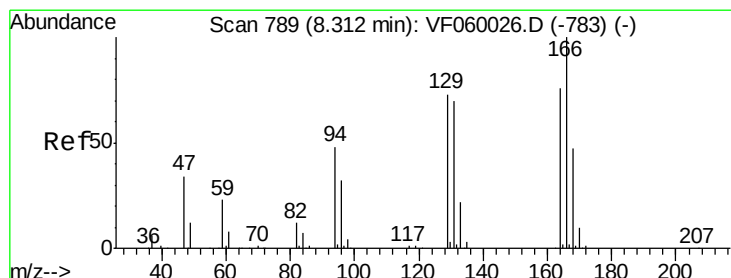
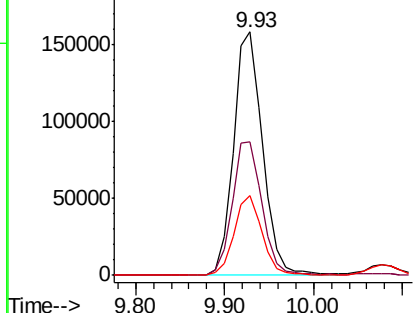
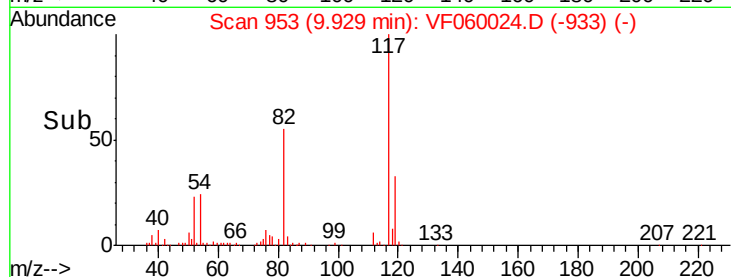
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.93 min Scan# 953  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

Tgt Ion:117 Resp: 359948  
Ion Ratio Lower Upper  
117 100  
82 54.9 43.6 65.4  
119 32.7 25.6 38.4

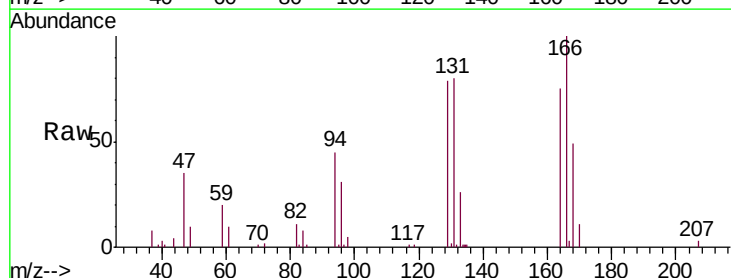


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V

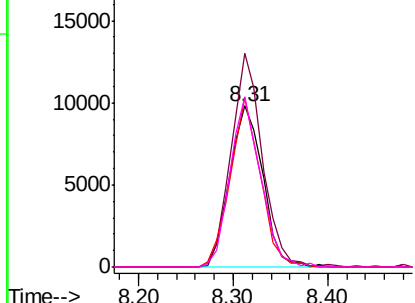
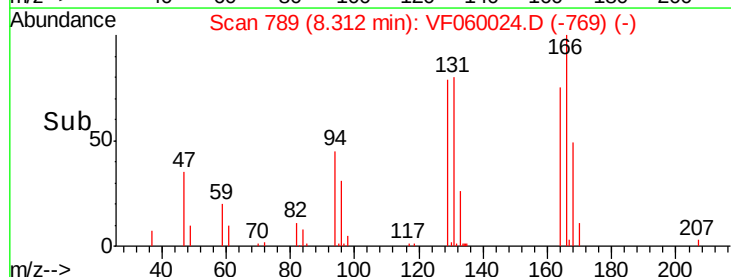


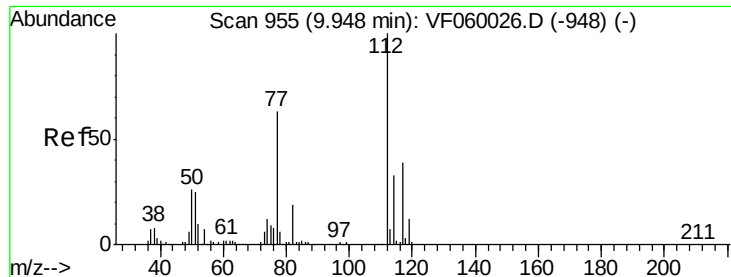
#64  
Tetrachloroethene  
Concen: 8.715 ug/l  
RT: 8.31 min Scan# 789  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Tgt Ion:164 Resp: 23769  
Ion Ratio Lower Upper  
164 100  
166 132.9 104.7 157.1  
129 105.1 77.0 115.4  
131 105.9 72.9 109.3



Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 9.563 ug/l

RT: 9.95 min Scan# 955

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

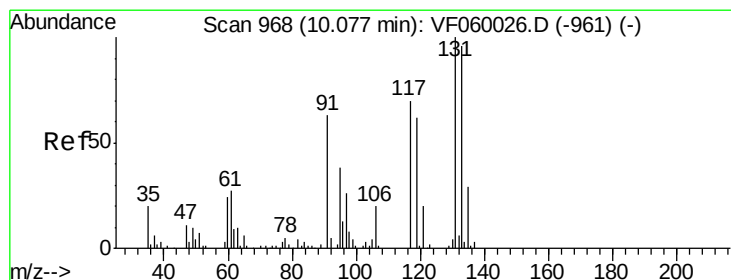
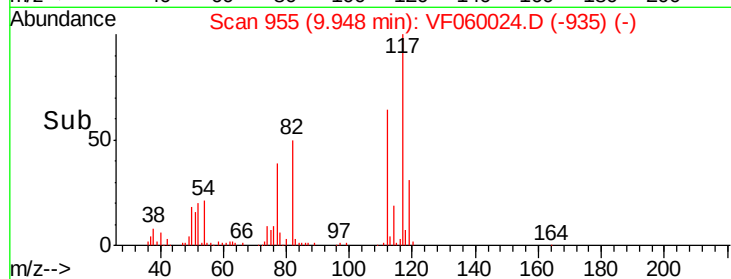
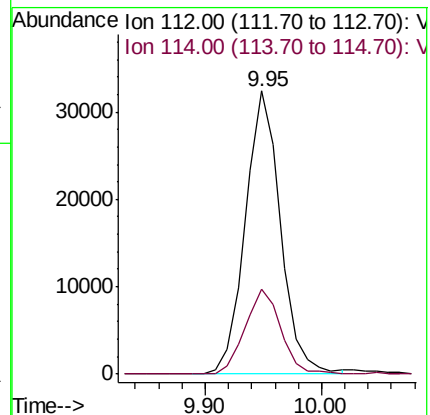
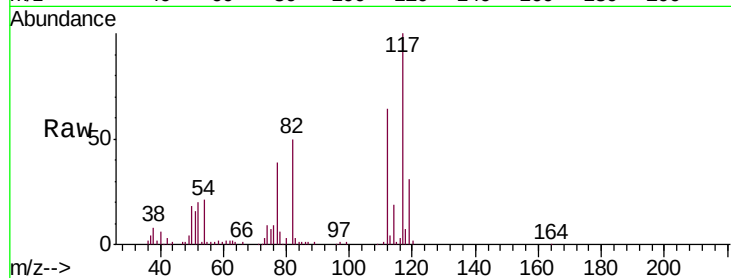
VSTDIC010

Tgt Ion:112 Resp: 67789

Ion Ratio Lower Upper

112 100

114 30.0 26.2 39.2



#66

1,1,1,2-Tetrachloroethane

Concen: 7.868 ug/l

RT: 10.08 min Scan# 968

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

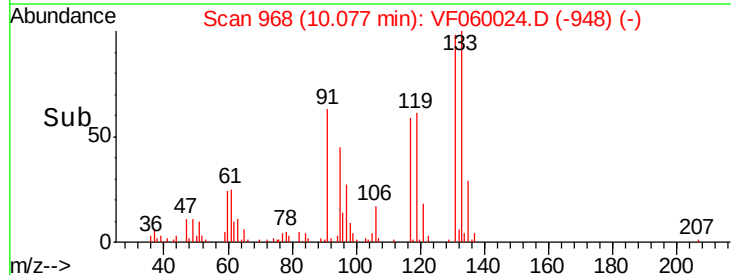
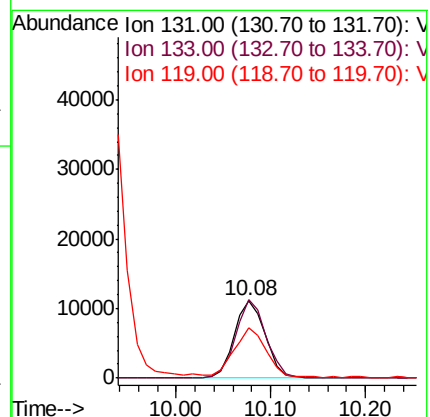
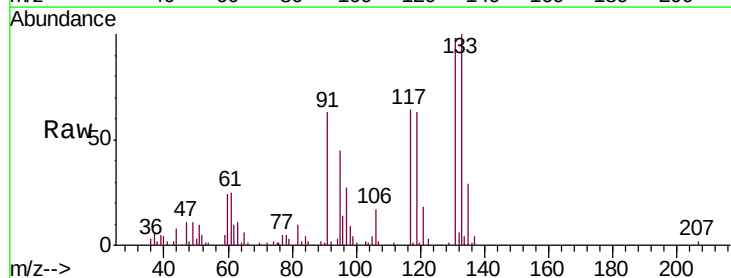
Tgt Ion:131 Resp: 24950

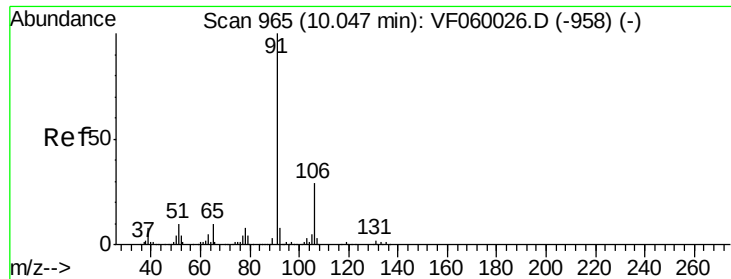
Ion Ratio Lower Upper

131 100

133 102.1 48.2 144.6

119 64.7 31.4 94.2





#67

Ethyl Benzene

Concen: 9.627 ug/l

RT: 10.05 min Scan# 965

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

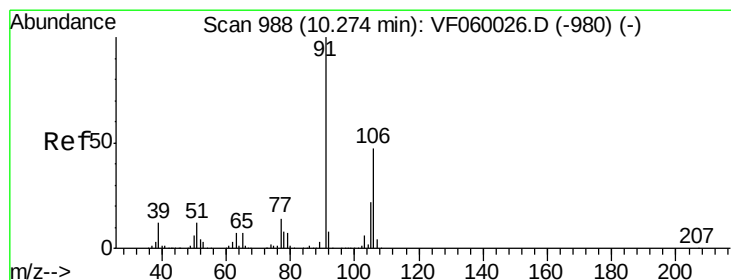
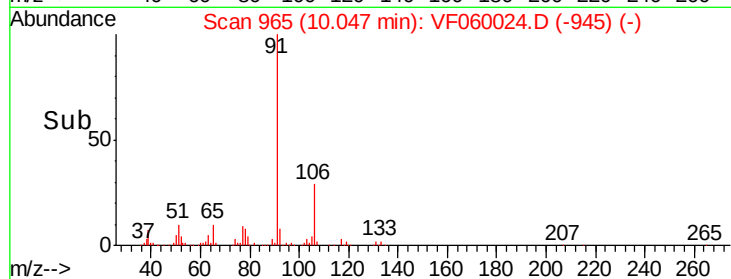
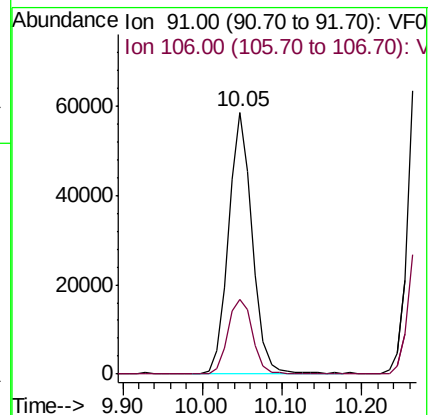
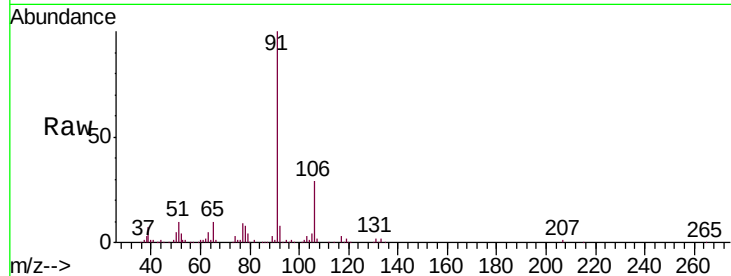
VSTDIC010

Tgt Ion: 91 Resp: 122867

Ion Ratio Lower Upper

91 100

106 28.5 23.6 35.4



#68

m/p-Xylenes

Concen: 19.855 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.00 min

Lab File: VF060024.D

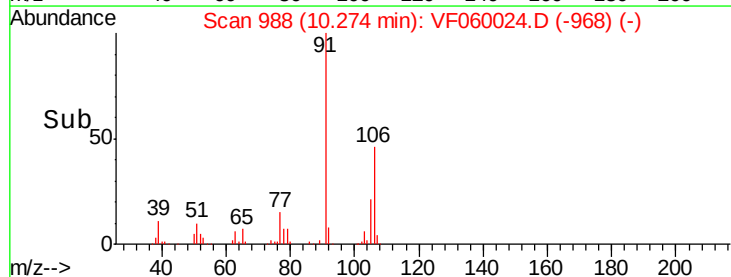
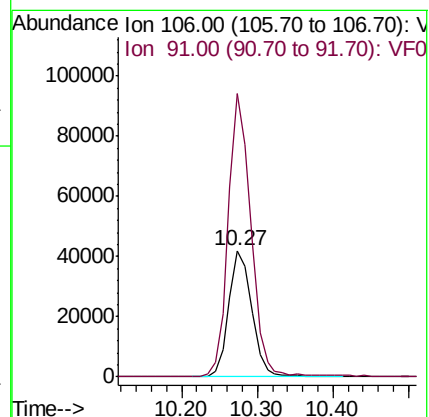
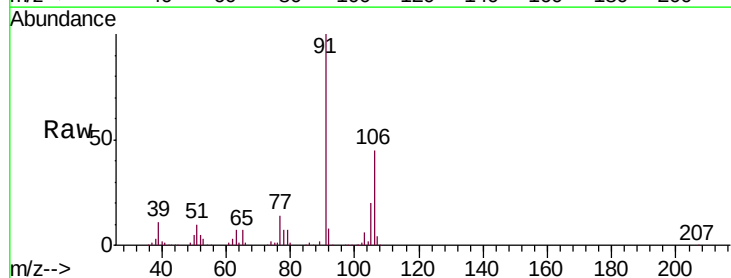
Acq: 21 Aug 2018 17:27

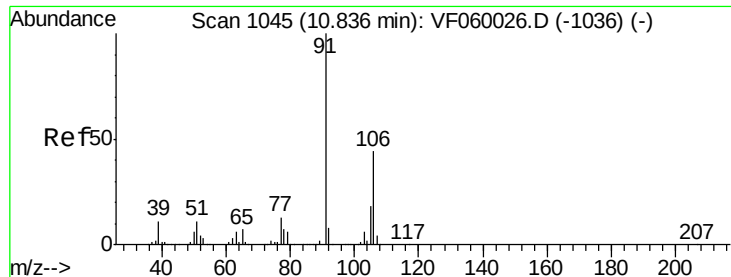
Tgt Ion: 106 Resp: 89289

Ion Ratio Lower Upper

106 100

91 224.7 171.8 257.8

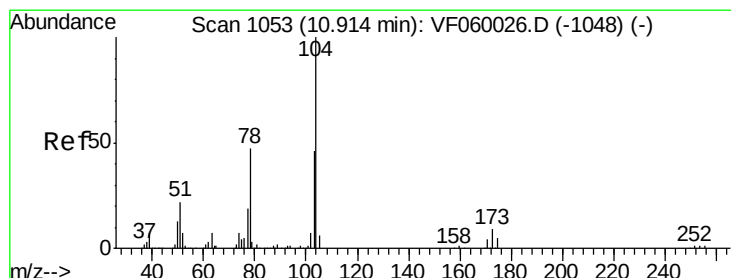
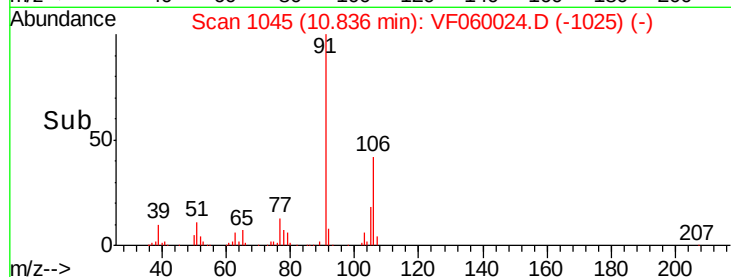
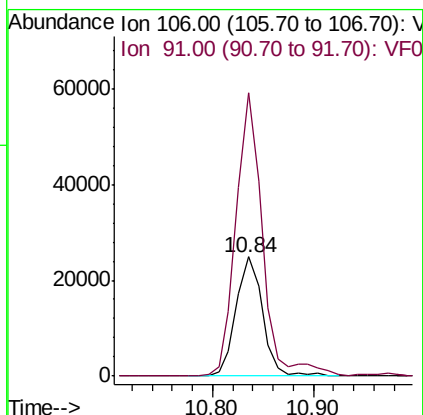
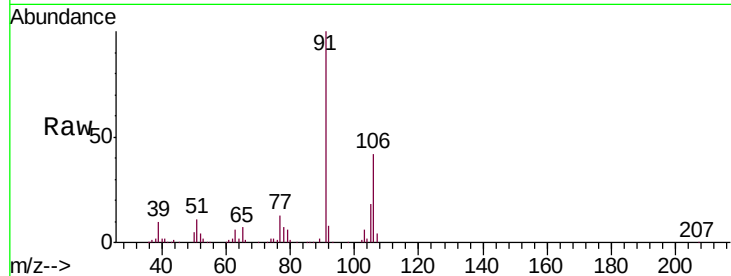




#69  
o-Xylene  
Concen: 9.979 ug/l  
RT: 10.84 min Scan# 1045  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

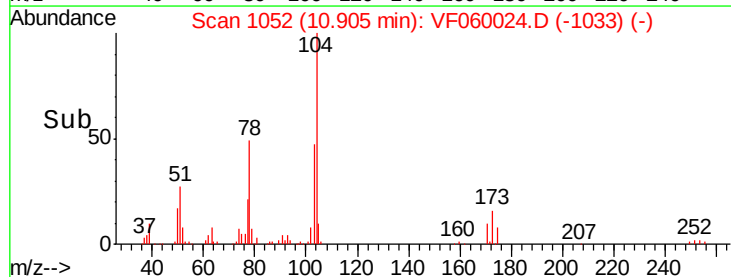
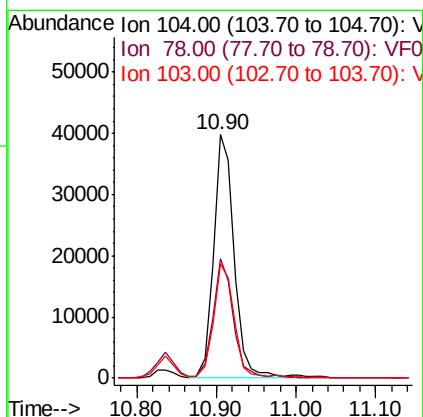
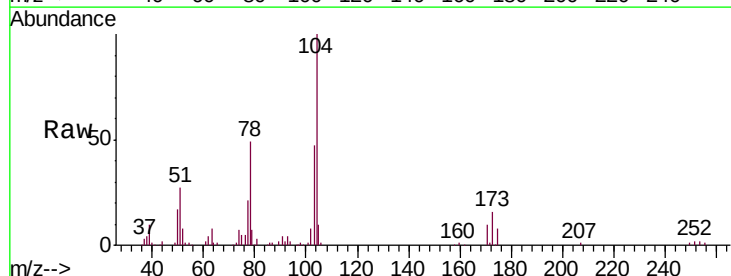
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

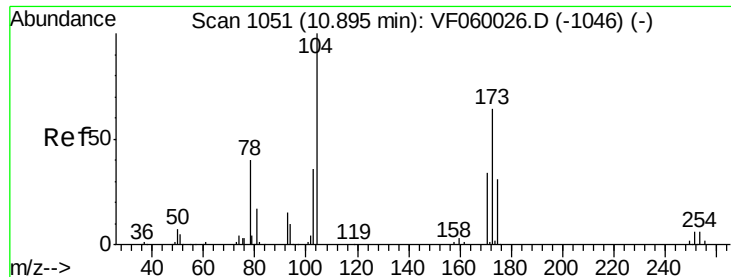
Tgt Ion:106 Resp: 45926  
Ion Ratio Lower Upper  
106 100  
91 237.4 112.5 337.5



#70  
Styrene  
Concen: 9.847 ug/l  
RT: 10.90 min Scan# 1052  
Delta R.T. -0.01 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Tgt Ion:104 Resp: 72286  
Ion Ratio Lower Upper  
104 100  
78 49.0 38.0 57.0  
103 46.8 37.6 56.4





#71

Bromoform

Concen: 7.056 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

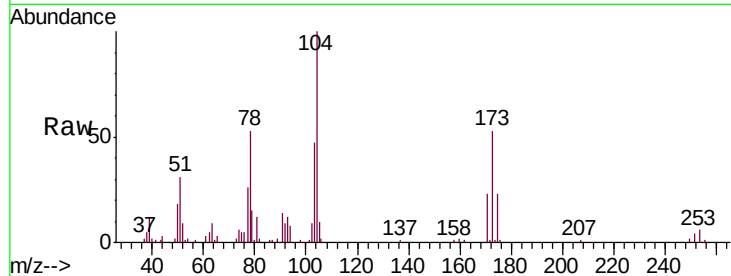
Tgt Ion:173 Resp: 16514

Ion Ratio Lower Upper

173 100

175 45.0 24.7 74.1

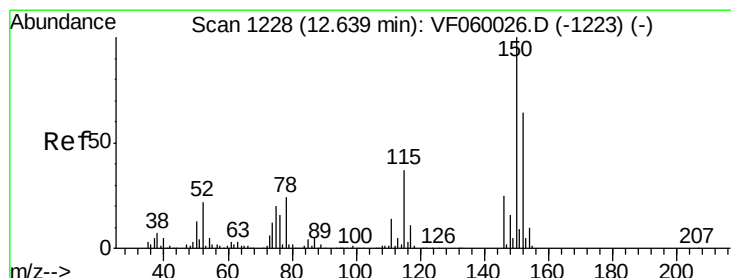
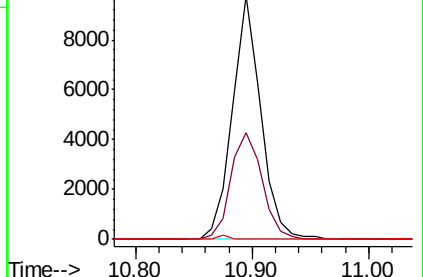
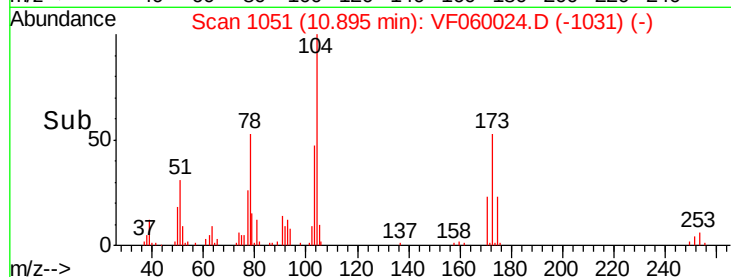
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

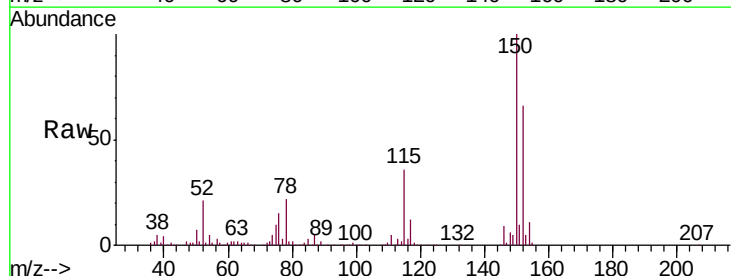
Tgt Ion:152 Resp: 218473

Ion Ratio Lower Upper

152 100

115 54.2 28.6 85.9

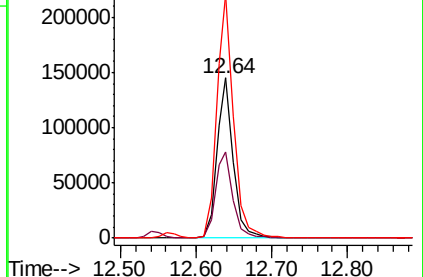
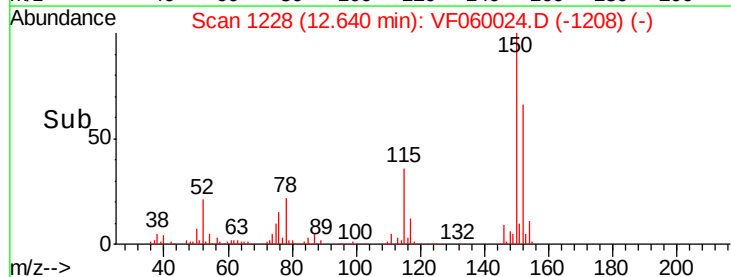
150 152.1 0.0 312.0



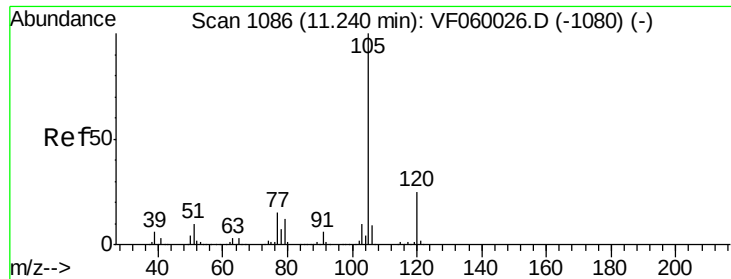
Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V







#73

Isopropylbenzene

Concen: 10.464 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

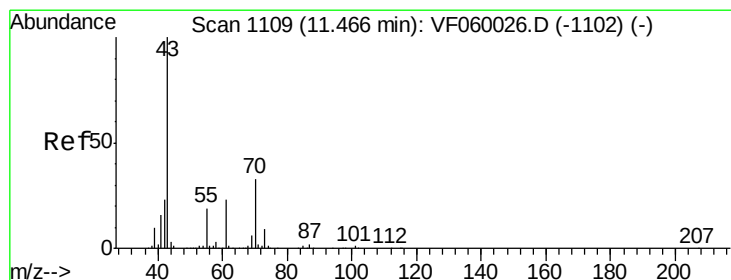
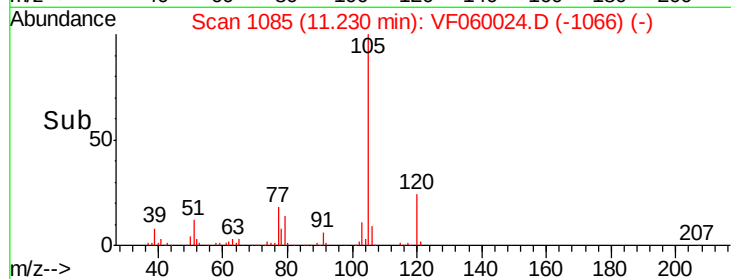
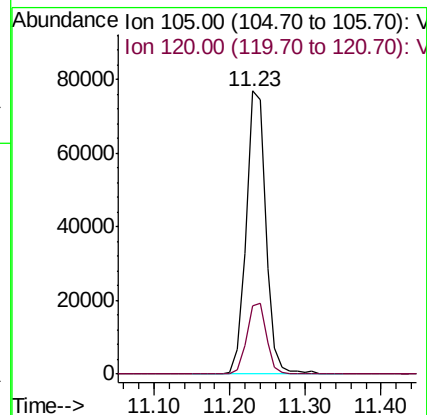
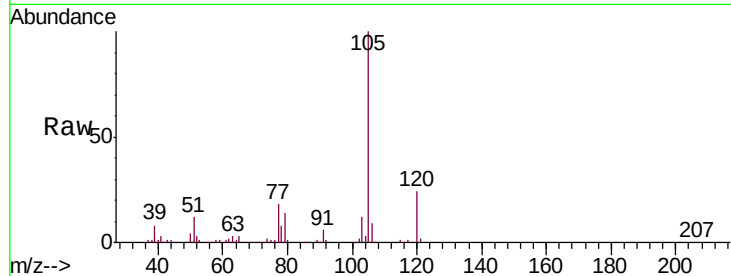
VSTDIC010

Tgt Ion: 105 Resp: 137575

Ion Ratio Lower Upper

105 100

120 24.2 12.7 38.0



#74

N-ethyl acetate

Concen: 9.754 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Tgt Ion: 43 Resp: 36998

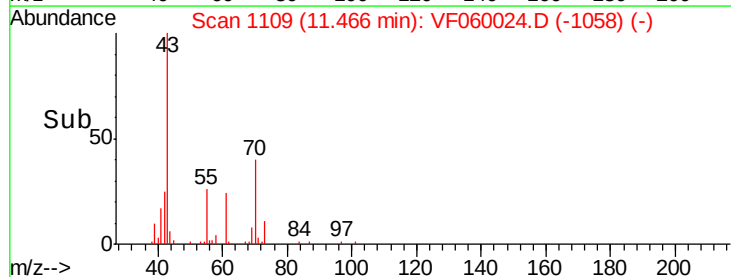
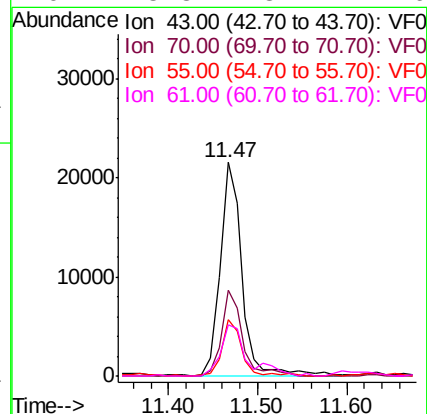
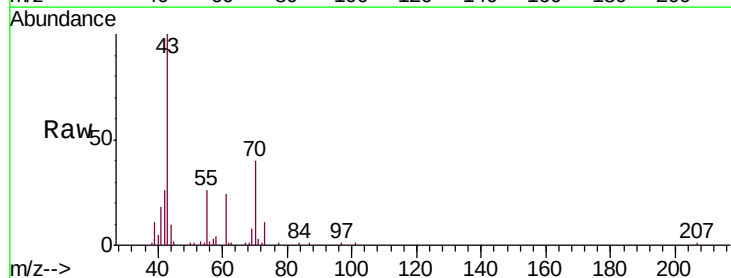
Ion Ratio Lower Upper

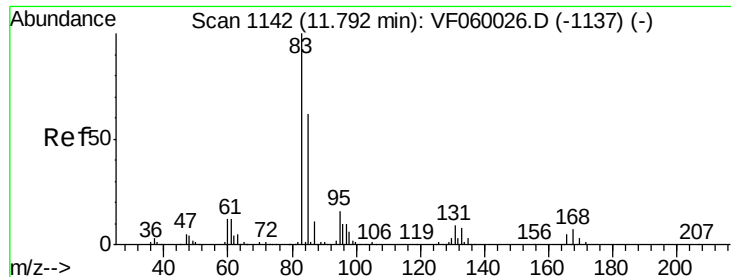
43 100

70 39.9 26.4 39.6#

55 26.3 15.0 22.4#

61 23.8 18.4 27.6





#75

1,1,2,2-Tetrachloroethane

Concen: 10.762 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

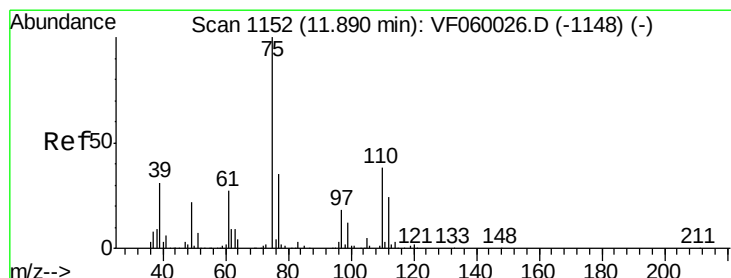
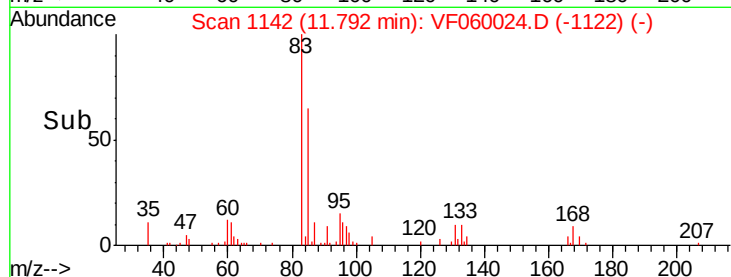
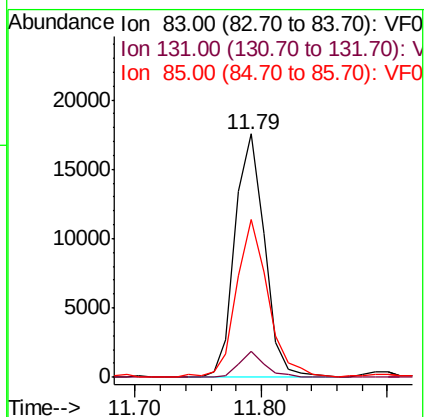
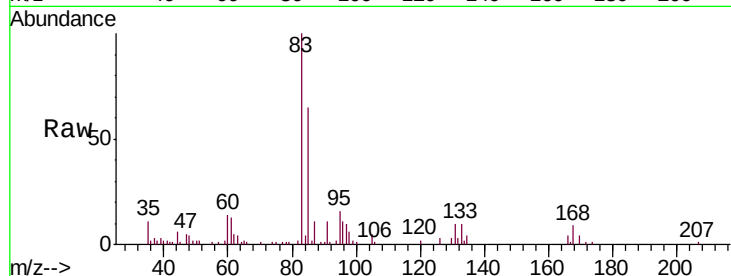
Tgt Ion: 83 Resp: 28445

Ion Ratio Lower Upper

83 100

131 10.5 4.5 13.7

85 64.9 31.3 93.9



#76

1,2,3-Trichloropropane

Concen: 9.614 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF060024.D

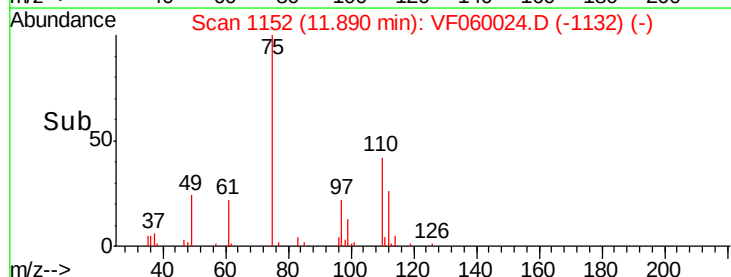
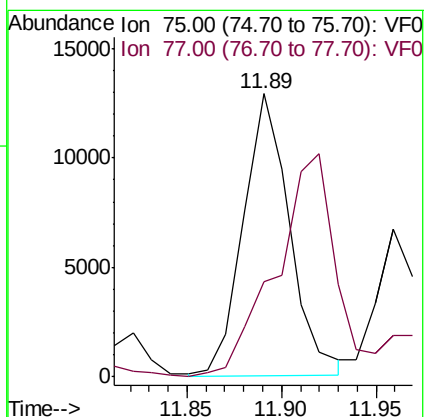
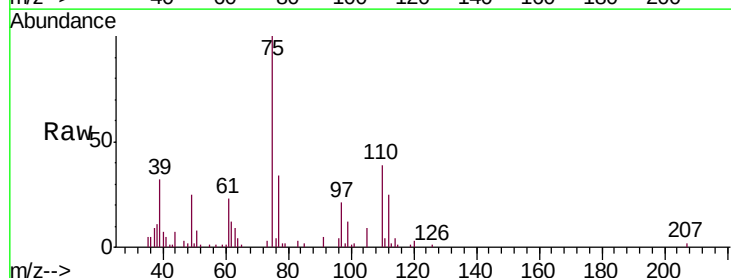
Acq: 21 Aug 2018 17:27

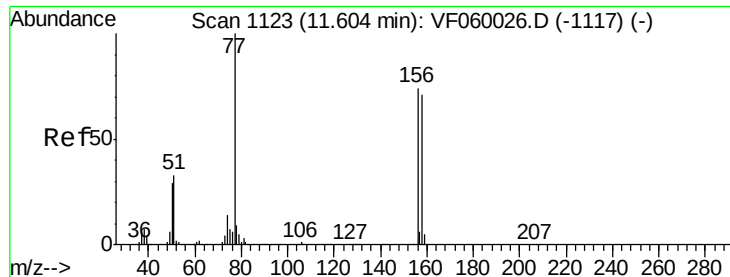
Tgt Ion: 75 Resp: 21879

Ion Ratio Lower Upper

75 100

77 33.6 17.3 52.0





#77

Bromobenzene

Concen: 9.815 ug/l

RT: 11.60 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

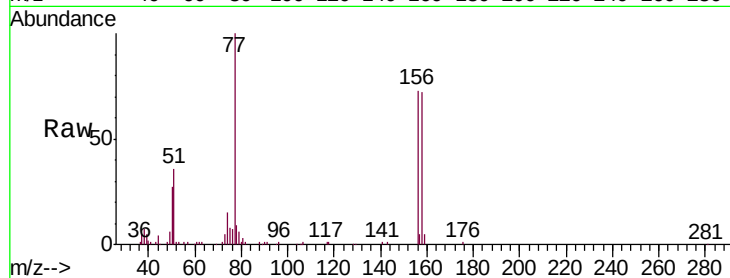
Tgt Ion:156 Resp: 35872

Ion Ratio Lower Upper

156 100

77 137.1 68.0 204.0

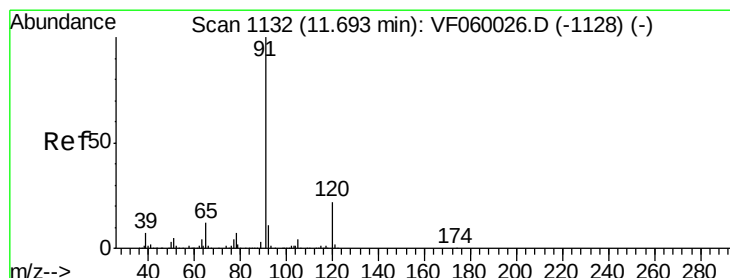
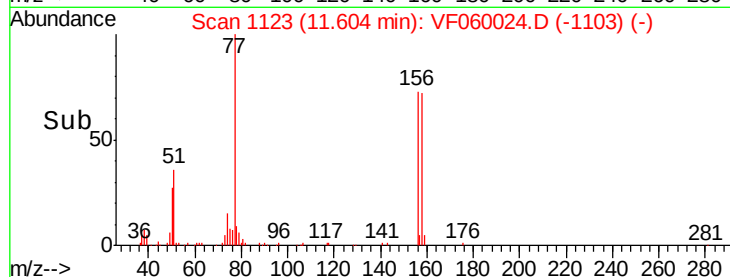
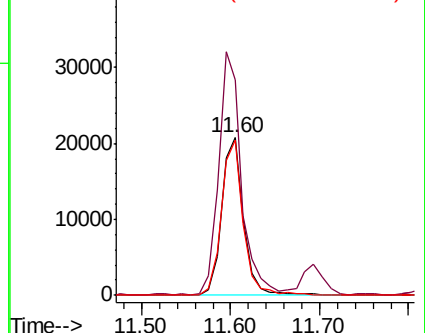
158 98.3 48.4 145.3



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



#78

n-propylbenzene

Concen: 10.289 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF060024.D

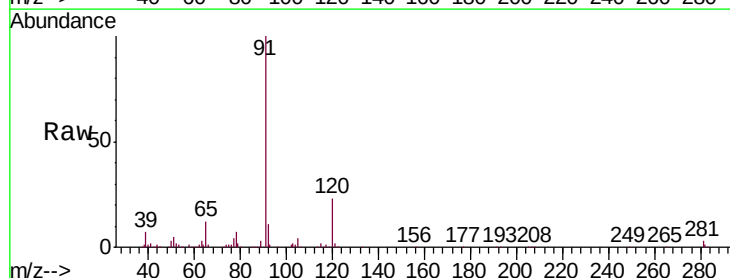
Acq: 21 Aug 2018 17:27

Tgt Ion: 91 Resp: 168366

Ion Ratio Lower Upper

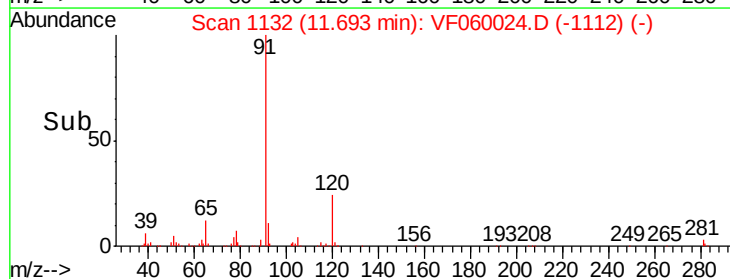
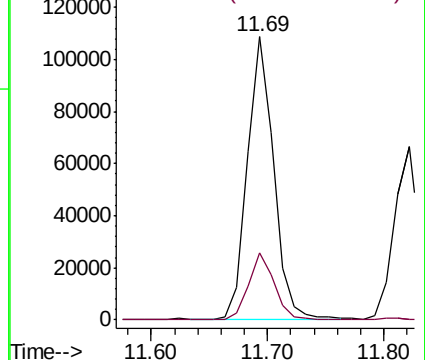
91 100

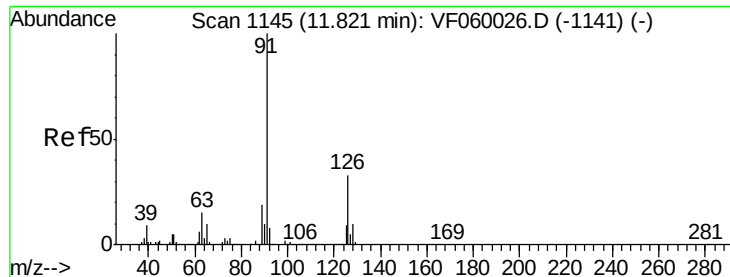
120 23.5 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

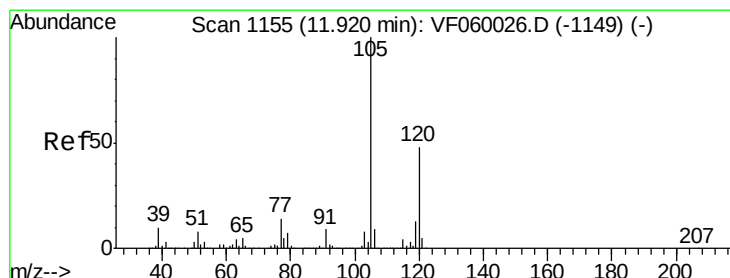
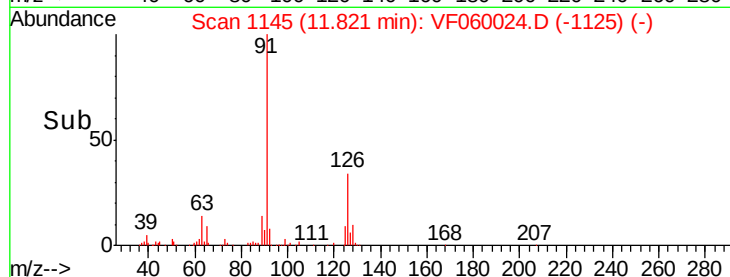
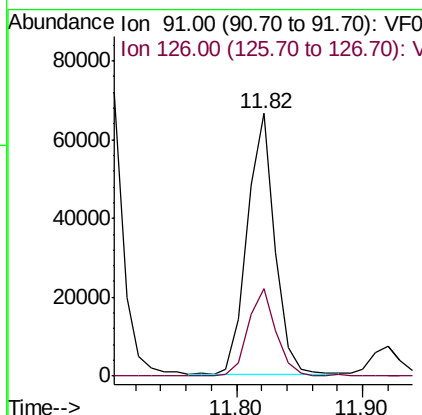
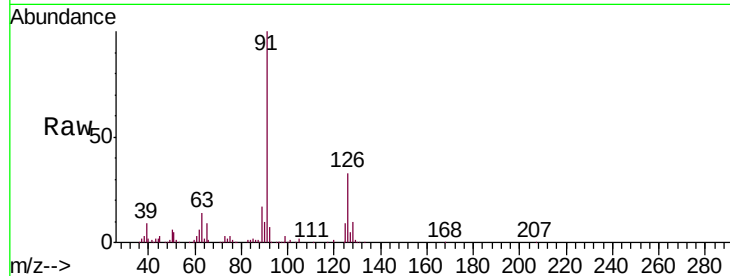




#79  
 2-Chlorotoluene  
 Concen: 10.155 ug/l  
 RT: 11.82 min Scan# 1145  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

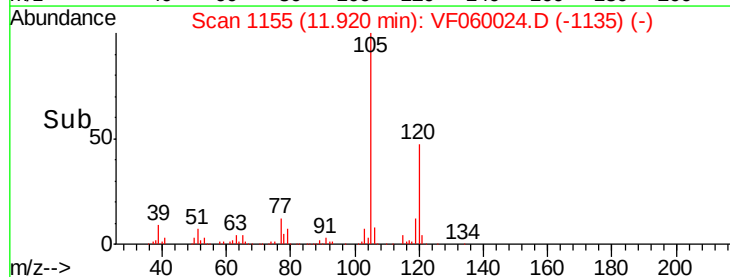
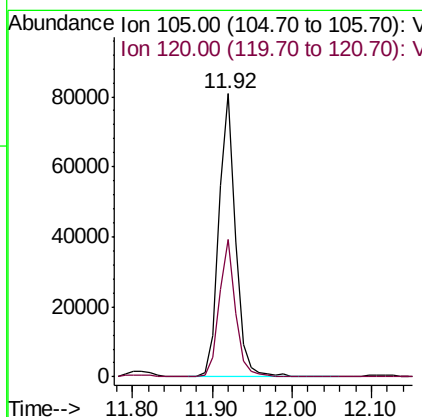
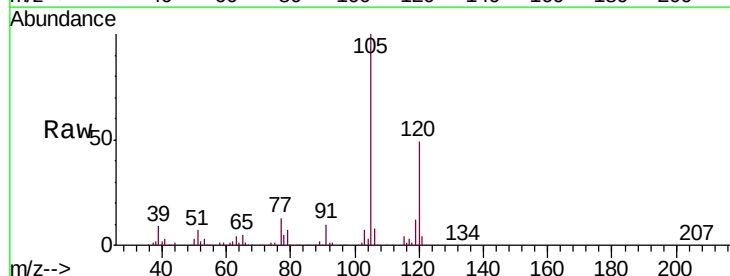
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

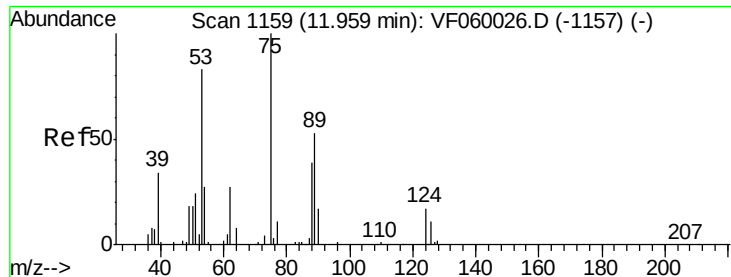
Tgt Ion: 91 Resp: 99659  
 Ion Ratio Lower Upper  
 91 100  
 126 33.4 16.6 49.7



#80  
 1,3,5-Trimethylbenzene  
 Concen: 10.206 ug/l  
 RT: 11.92 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

Tgt Ion: 105 Resp: 120435  
 Ion Ratio Lower Upper  
 105 100  
 120 48.5 23.8 71.5

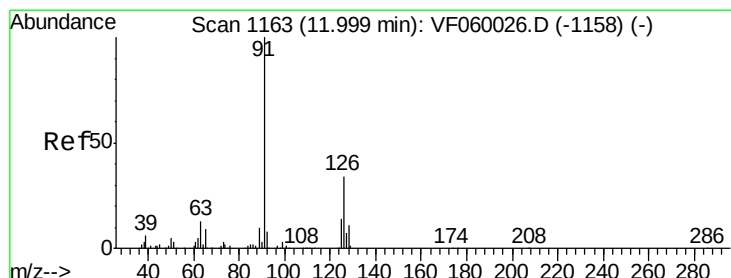
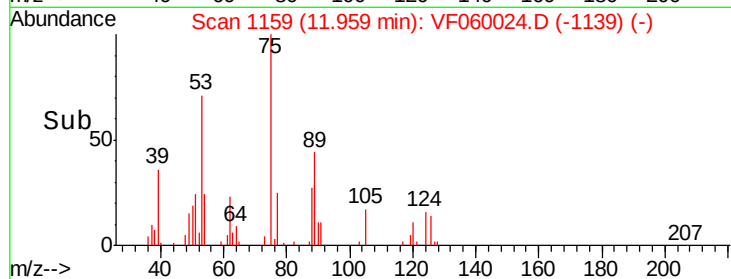
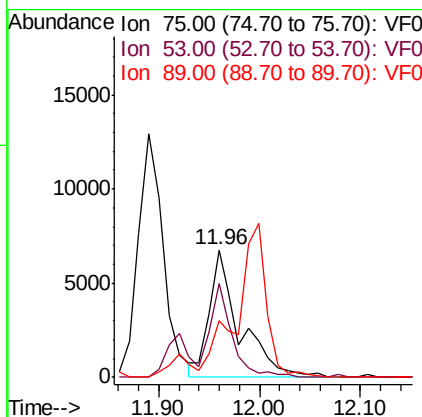
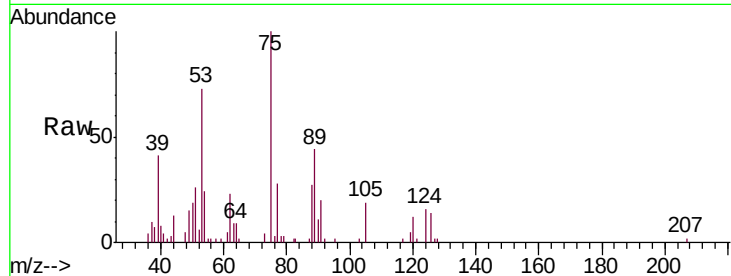




#81  
trans-1,4-Dichloro-2-butene  
Concen: 14.897 ug/l  
RT: 11.96 min Scan# 1159  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

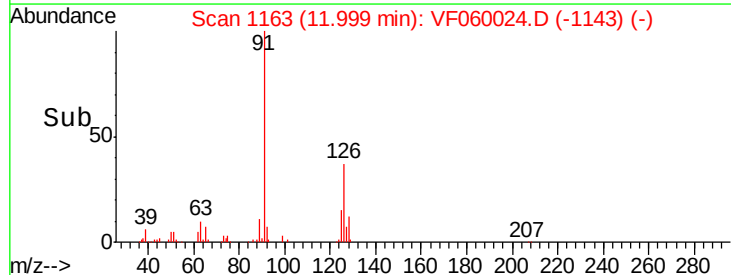
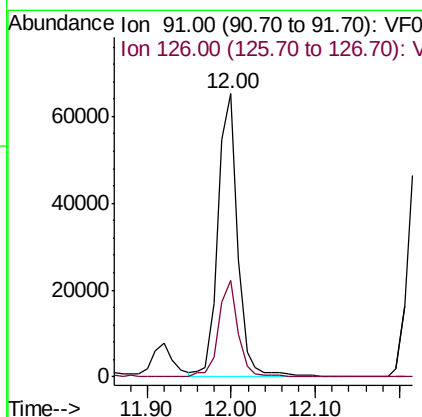
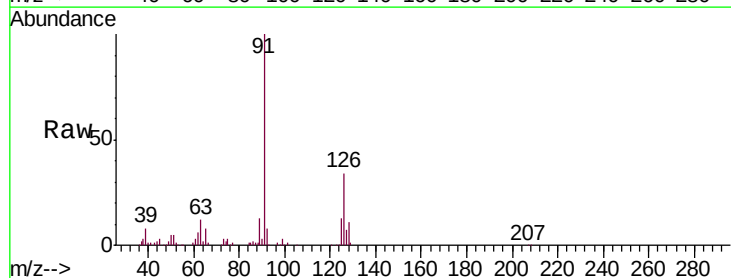
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

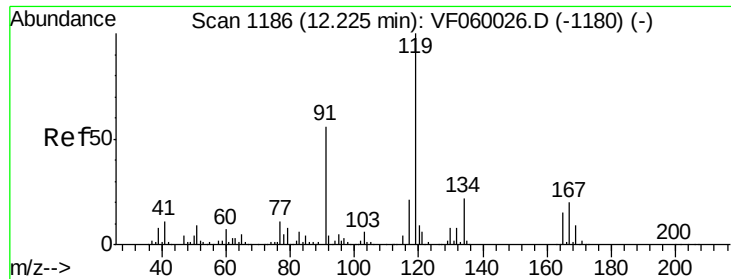
Tgt Ion: 75 Resp: 14303  
Ion Ratio Lower Upper  
75 100  
53 73.1 66.2 99.4  
89 44.3 42.8 64.2



#82  
4-Chlorotoluene  
Concen: 9.921 ug/l  
RT: 12.00 min Scan# 1163  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Tgt Ion: 91 Resp: 106545  
Ion Ratio Lower Upper  
91 100  
126 34.0 17.0 50.9

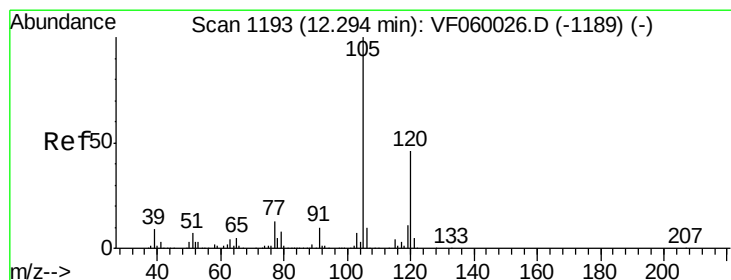
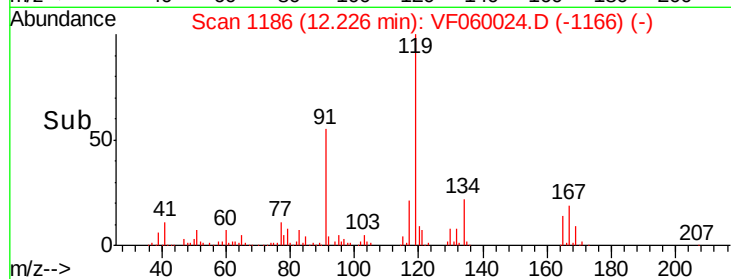
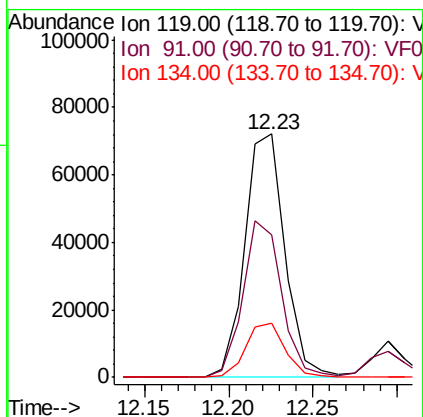
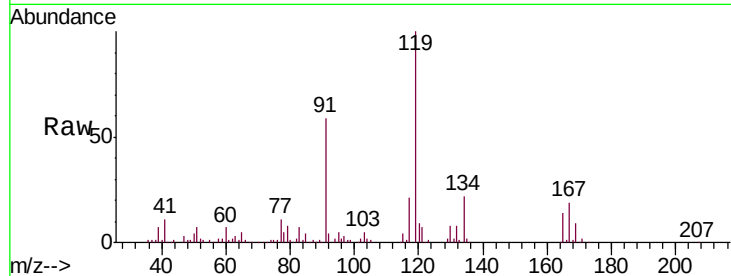




#83  
 tert-Butylbenzene  
 Concen: 10.302 ug/l  
 RT: 12.23 min Scan# 1186  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

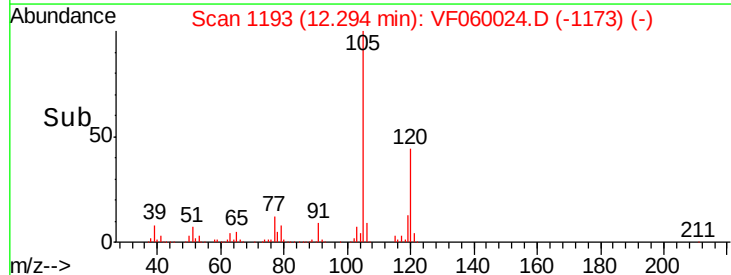
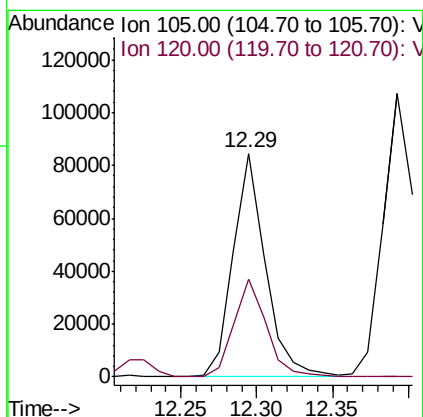
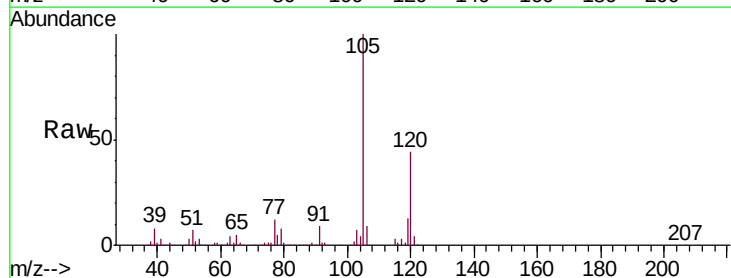
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

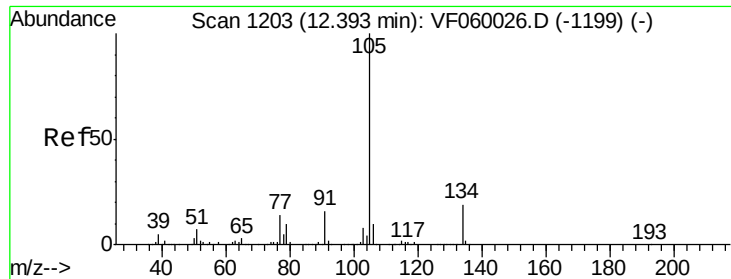
Tgt Ion:119 Resp: 118875  
 Ion Ratio Lower Upper  
 119 100  
 91 58.6 28.1 84.3  
 134 22.4 11.1 33.3



#84  
 1,2,4-Trimethylbenzene  
 Concen: 10.169 ug/l  
 RT: 12.29 min Scan# 1193  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

Tgt Ion:105 Resp: 126146  
 Ion Ratio Lower Upper  
 105 100  
 120 43.9 23.3 69.8





#85

sec-Butylbenzene

Concen: 10.291 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

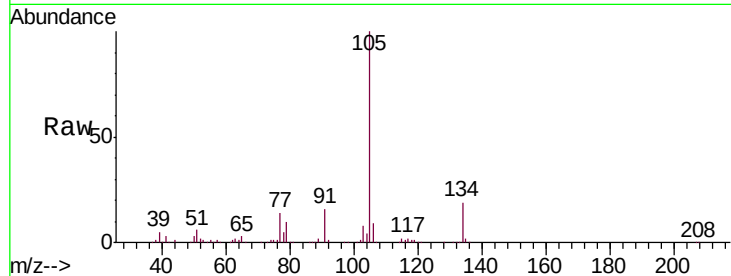
VSTDIC010

Tgt Ion:105 Resp: 158485

Ion Ratio Lower Upper

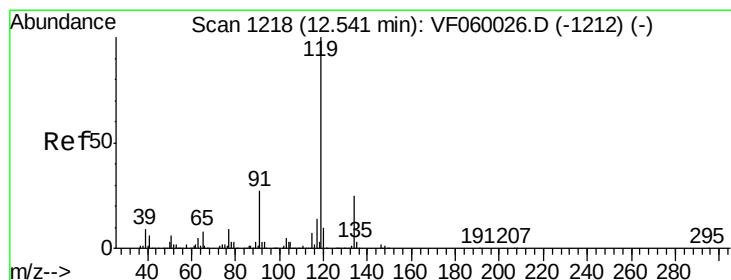
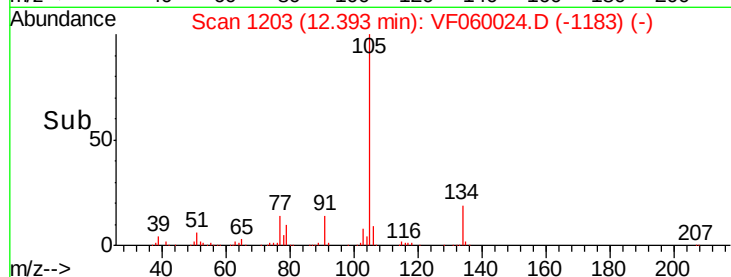
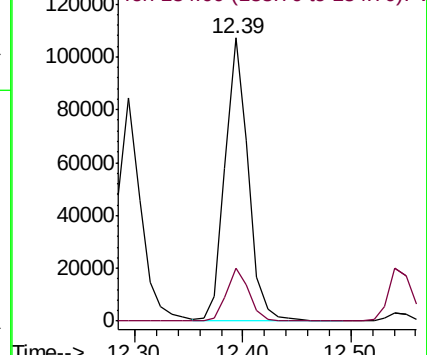
105 100

134 18.9 9.3 27.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 9.409 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

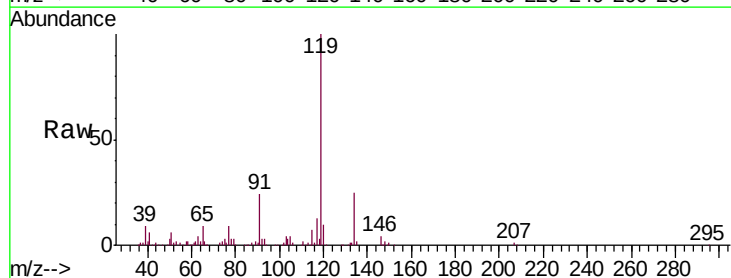
Tgt Ion:119 Resp: 128126

Ion Ratio Lower Upper

119 100

134 24.7 12.4 37.2

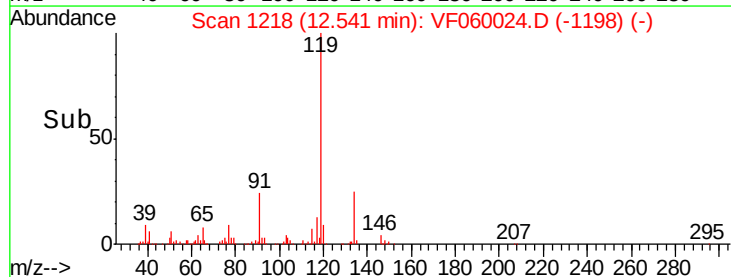
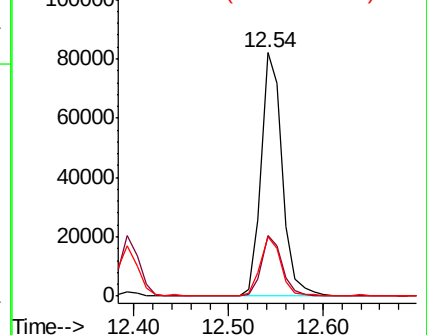
91 24.3 13.5 40.4

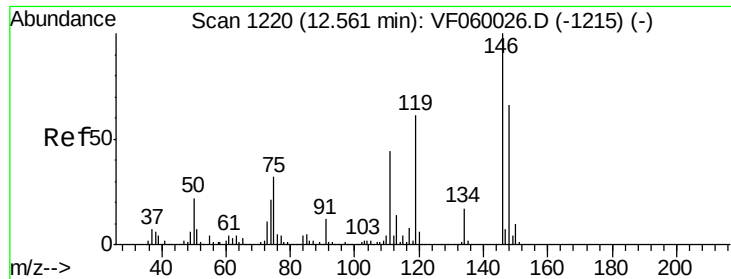


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

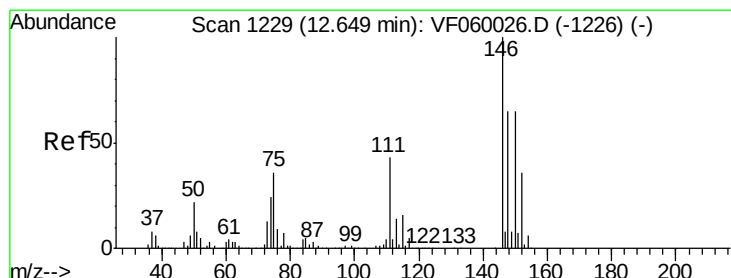
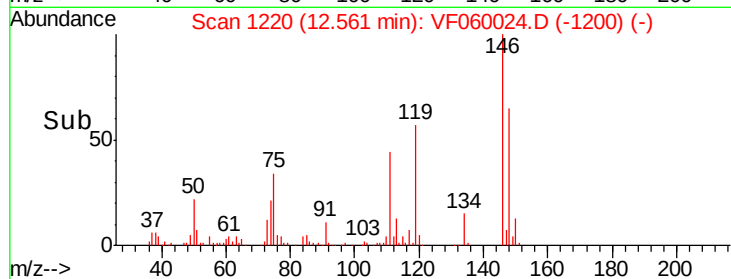
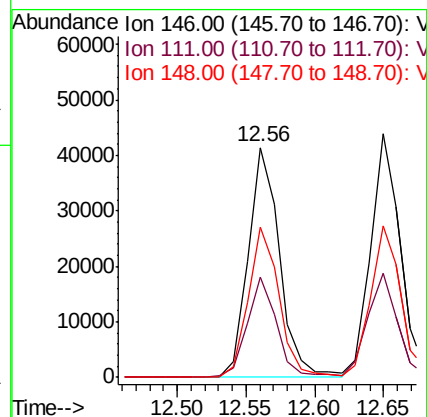
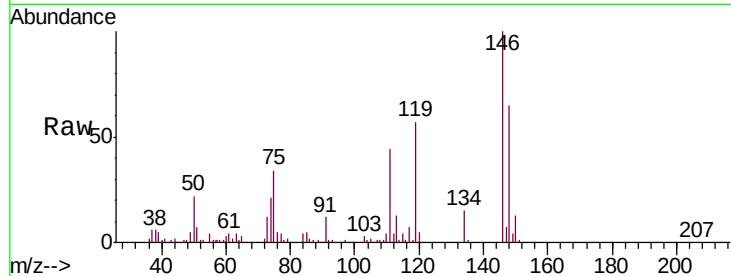




#87  
 1,3-Dichlorobenzene  
 Concen: 9.467 ug/l  
 RT: 12.56 min Scan# 1220  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

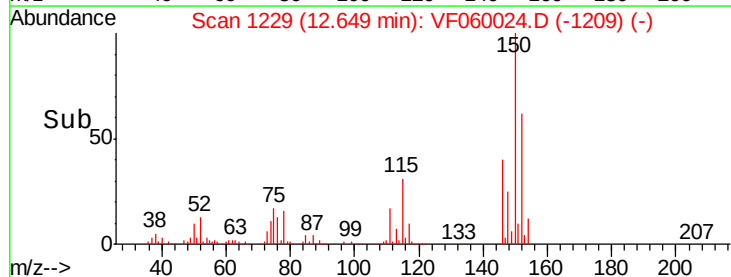
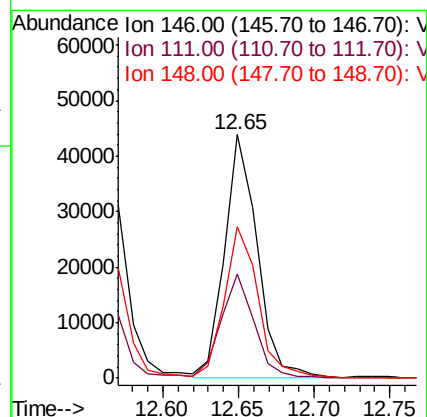
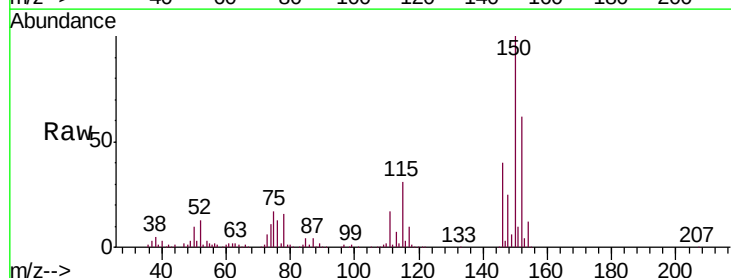
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

Tgt Ion:146 Resp: 66059  
 Ion Ratio Lower Upper  
 146 100  
 111 43.8 21.9 65.5  
 148 65.2 32.9 98.7

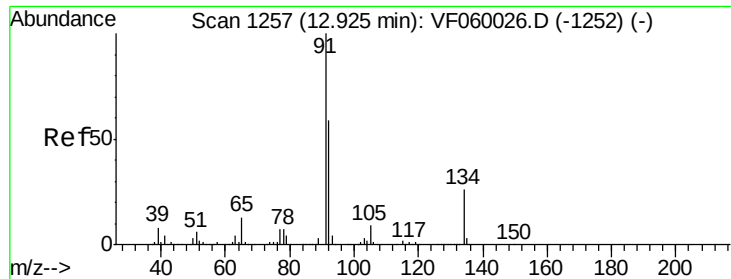


#88  
 1,4-Dichlorobenzene  
 Concen: 9.672 ug/l  
 RT: 12.65 min Scan# 1229  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

Tgt Ion:146 Resp: 65567  
 Ion Ratio Lower Upper  
 146 100  
 111 42.9 21.6 64.8  
 148 62.2 32.3 96.8







#89

n-Butylbenzene

Concen: 9.574 ug/l

RT: 12.93 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VF060024.D

Acq: 21 Aug 2018 17:27

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

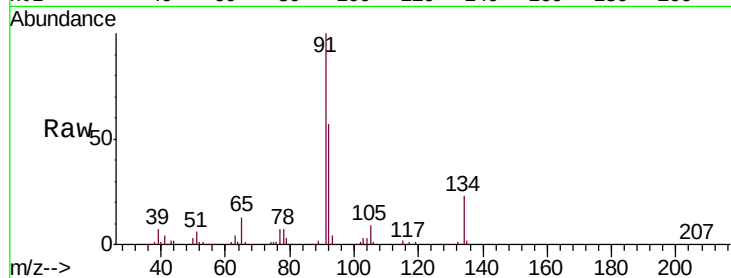
Tgt Ion: 91 Resp: 125974

Ion Ratio Lower Upper

91 100

92 56.6 29.3 87.9

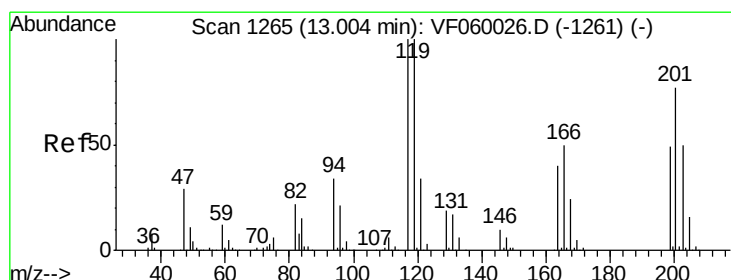
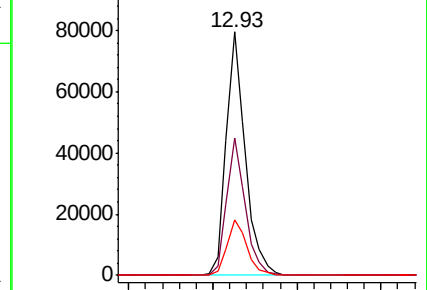
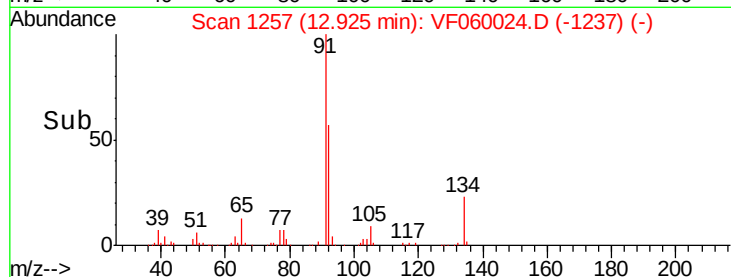
134 22.9 12.8 38.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 9.410 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VF060024.D

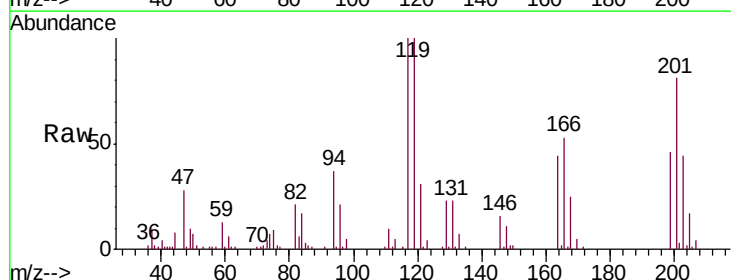
Acq: 21 Aug 2018 17:27

Tgt Ion: 117 Resp: 28537

Ion Ratio Lower Upper

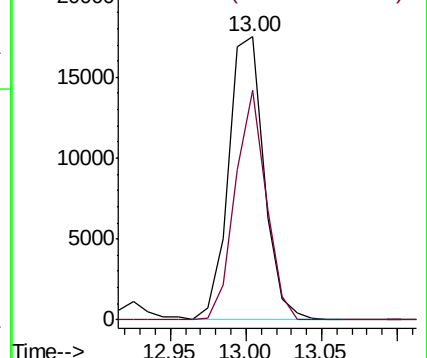
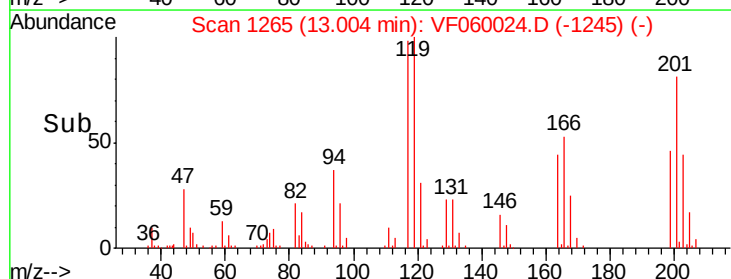
117 100

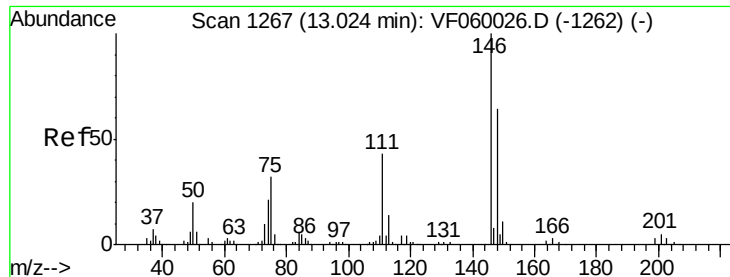
201 81.3 38.6 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

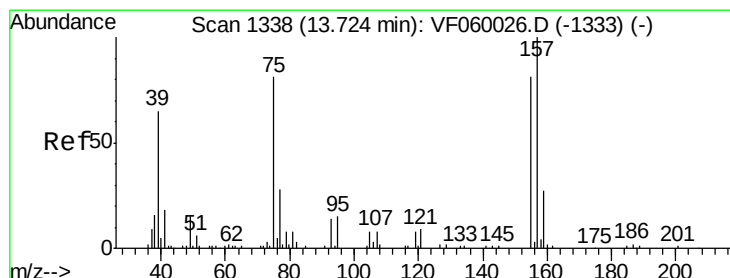
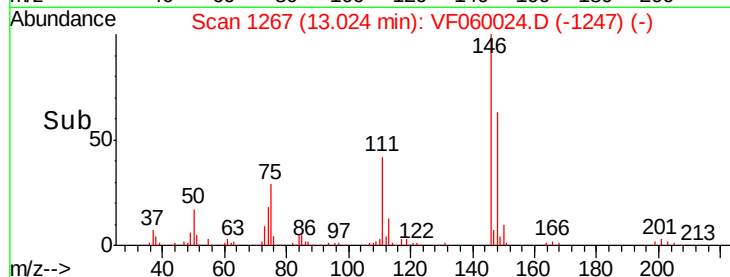
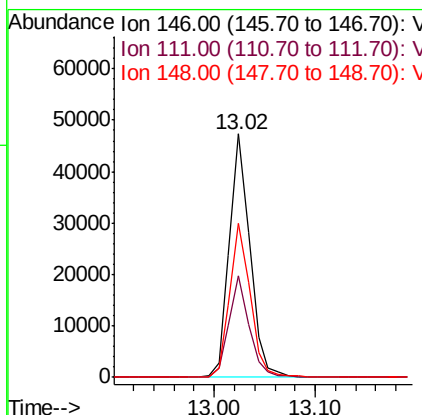
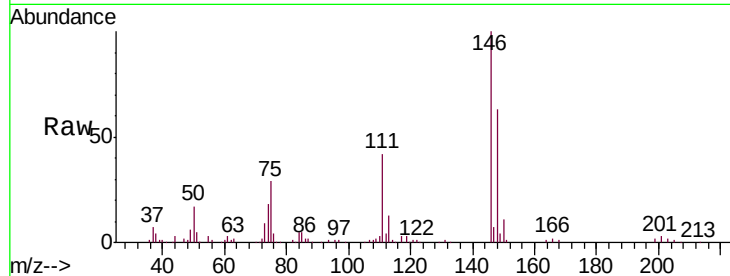




#91  
 1,2-Dichlorobenzene  
 Concen: 10.127 ug/l  
 RT: 13.02 min Scan# 1267  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

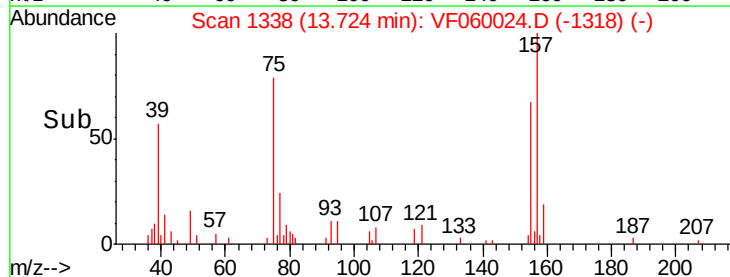
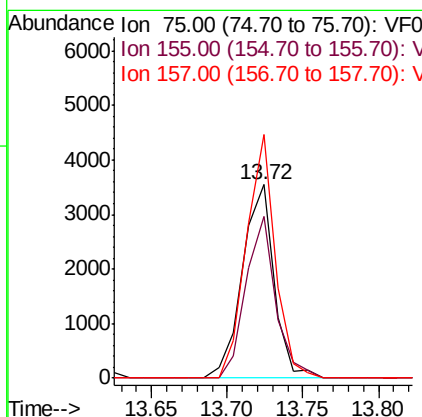
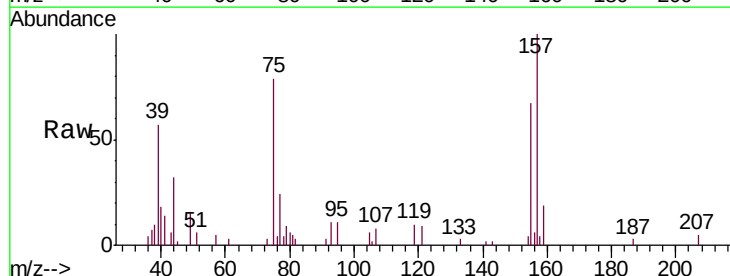
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

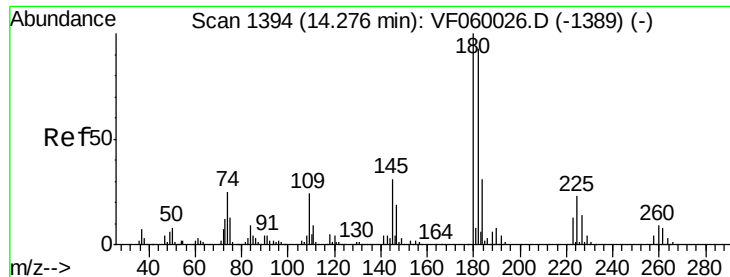
Tgt Ion: 146 Resp: 67307  
 Ion Ratio Lower Upper  
 146 100  
 111 41.9 21.6 64.6  
 148 63.3 32.3 96.8



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 7.484 ug/l  
 RT: 13.72 min Scan# 1338  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

Tgt Ion: 75 Resp: 5172  
 Ion Ratio Lower Upper  
 75 100  
 155 83.9 49.8 149.3  
 157 126.1 61.6 184.7

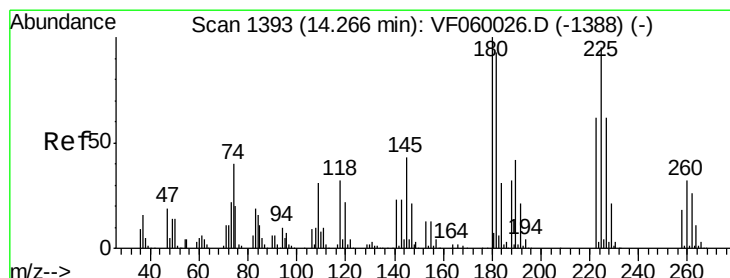
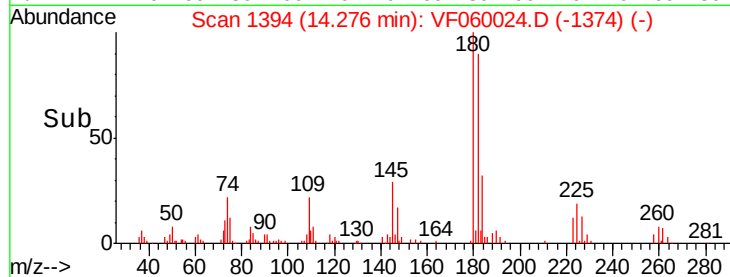
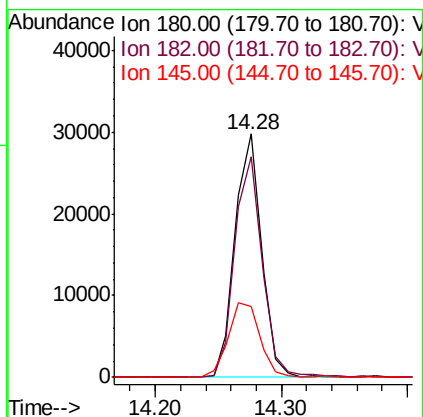
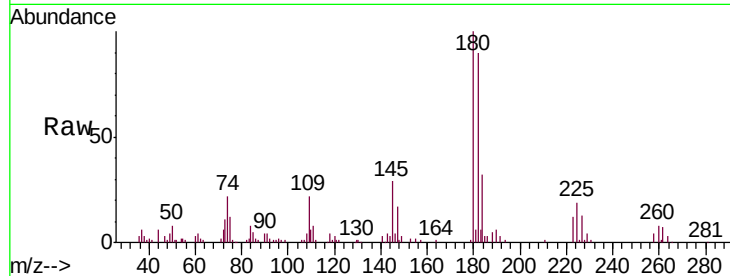




#93  
 1,2,4-Trichlorobenzene  
 Concen: 8.042 ug/l  
 RT: 14.28 min Scan# 1394  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

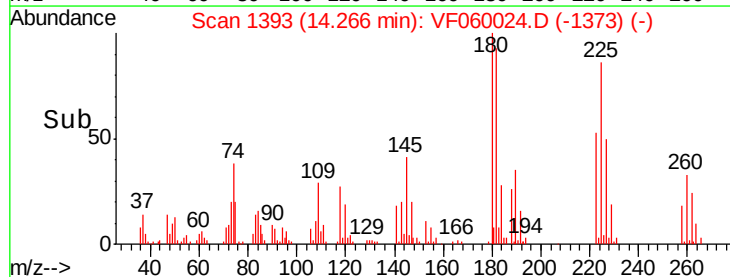
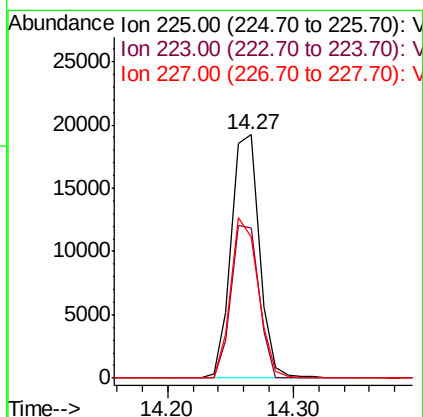
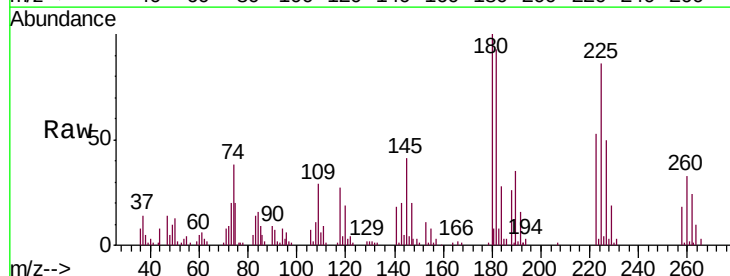
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

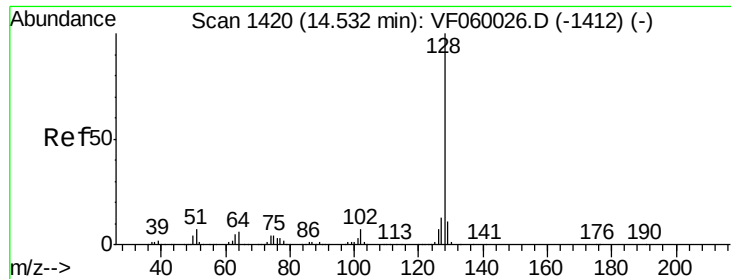
Tgt Ion:180 Resp: 43247  
 Ion Ratio Lower Upper  
 180 100  
 182 90.4 46.8 140.3  
 145 29.3 15.4 46.4



#94  
 Hexachlorobutadiene  
 Concen: 8.394 ug/l  
 RT: 14.27 min Scan# 1393  
 Delta R.T. 0.00 min  
 Lab File: VF060024.D  
 Acq: 21 Aug 2018 17:27

Tgt Ion:225 Resp: 29666  
 Ion Ratio Lower Upper  
 225 100  
 223 61.6 32.6 97.8  
 227 57.9 33.0 98.9

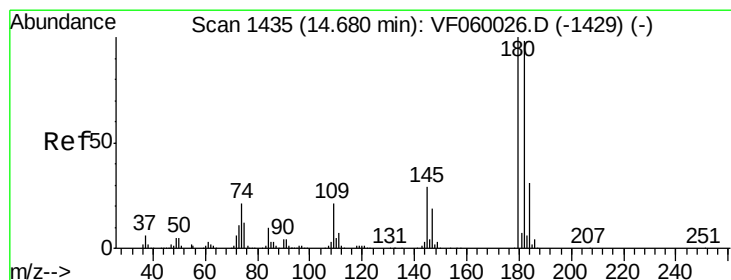
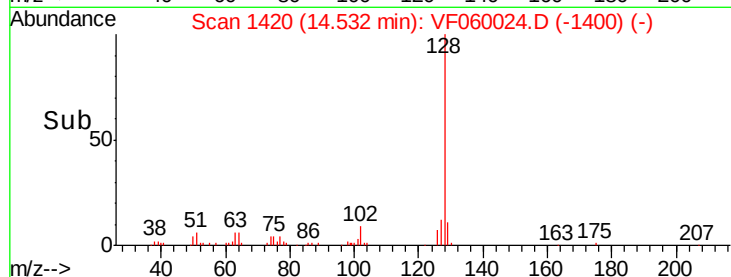
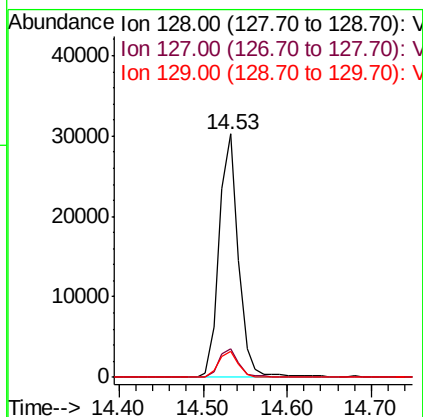
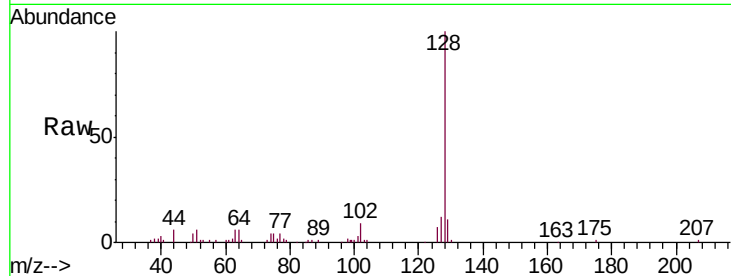




#95  
Naphthalene  
Concen: 6.246 ug/l  
RT: 14.53 min Scan# 1420  
Delta R.T. 0.00 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 11.6  | 10.4  | 15.6  |
| 129     | 10.7  | 8.5   | 12.7  |



#96  
1,2,3-Trichlorobenzene  
Concen: 7.716 ug/l  
RT: 14.67 min Scan# 1434  
Delta R.T. -0.01 min  
Lab File: VF060024.D  
Acq: 21 Aug 2018 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 92.7  | 49.0  | 147.2 |
| 145     | 35.5  | 14.4  | 43.2  |

