

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF060618\  
 Data File : VF058115.D  
 Acq On : 6 Jun 2018 19:05  
 Operator : JC/SY  
 Sample : VSTDICC150  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICC150

Quant Time: Jun 07 06:00:37 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 05:56:32 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.04  | 168  | 348440   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 591441   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 553341   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 307217   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |          |        |         |      |
|---------------------------|-------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.01  | 65  | 622977   | 143.83 | ug/l    | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =      | 287.66% |      |
| 35) Dibromofluoromethane  | 4.30  | 113 | 572198   | 130.44 | ug/l    | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =      | 260.88% |      |
| 50) Toluene-d8            | 7.71  | 98  | 1643746  | 126.44 | ug/l    | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =      | 252.88% |      |
| 62) 4-Bromofluorobenzene  | 11.51 | 95  | 793878   | 122.05 | ug/l    | 0.00 |
| Spiked Amount 50.000      |       |     | Recovery | =      | 244.10% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 0.98 | 85  | 578606  | 137.50  | ug/l | 97     |
| 3) Chloromethane              | 1.09 | 50  | 447662  | 134.28  | ug/l | 97     |
| 4) Vinyl Chloride             | 1.16 | 62  | 435534  | 156.47  | ug/l | 99     |
| 5) Bromomethane               | 1.34 | 94  | 241937  | 153.51  | ug/l | 98     |
| 6) Chloroethane               | 1.43 | 64  | 171445  | 144.60  | ug/l | 93     |
| 7) Trichlorofluoromethane     | 1.48 | 101 | 196680  | 46.52   | ug/l | 96     |
| 8) Diethyl Ether              | 1.70 | 74  | 153071  | 148.67  | ug/l | 91     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.90 | 101 | 361073  | 138.57  | ug/l | 99     |
| 10) Methyl Iodide             | 1.96 | 142 | 677261  | 146.19  | ug/l | 96     |
| 11) Tert butyl alcohol        | 2.69 | 59  | 183740  | 742.00  | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 1.85 | 96  | 319533  | 140.93  | ug/l | 91     |
| 13) Acrolein                  | 2.09 | 56  | 165176  | 1025.41 | ug/l | 94     |
| 14) Allyl chloride            | 2.19 | 41  | 647026  | 149.26  | ug/l | 96     |
| 15) Acrylonitrile             | 3.07 | 53  | 391739  | 684.31  | ug/l | 98     |
| 16) Acetone                   | 2.33 | 43  | 714943  | 753.94  | ug/l | 96     |
| 17) Carbon Disulfide          | 1.84 | 76  | 273133  | 41.98   | ug/l | 100    |
| 18) Methyl Acetate            | 2.44 | 43  | 261145  | 147.67  | ug/l | 96     |
| 19) Methyl tert-butyl Ether   | 2.53 | 73  | 1014731 | 142.91  | ug/l | 99     |
| 20) Methylene Chloride        | 2.27 | 84  | 174676  | 75.24   | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 2.41 | 96  | 355538  | 145.26  | ug/l | 98     |
| 22) Diisopropyl ether         | 2.92 | 45  | 1284940 | 151.43  | ug/l | 94     |
| 23) Vinyl Acetate             | 3.33 | 43  | 3973206 | 639.07  | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 2.99 | 63  | 764536  | 145.45  | ug/l | 99     |
| 25) 2-Butanone                | 4.50 | 43  | 1095702 | 712.31  | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 3.75 | 77  | 503344  | 135.50  | ug/l | 92     |
| 27) cis-1,2-Dichloroethene    | 3.62 | 96  | 544045  | 133.67  | ug/l | 97     |
| 28) Bromochloromethane        | 3.89 | 49  | 323439  | 139.29  | ug/l | 96     |
| 29) Tetrahydrofuran           | 4.25 | 42  | 490201  | 690.39  | ug/l | 98     |
| 30) Chloroform                | 4.03 | 83  | 1066323 | 135.23  | ug/l | 92     |
| 31) Cyclohexane               | 3.87 | 56  | 660609  | 133.54  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 4.28 | 97  | 802867  | 143.45  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 4.46 | 75  | 793490  | 132.65  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.29 | 43  | 482197  | 136.71  | ug/l | 97     |
| 38) Carbon Tetrachloride      | 4.17 | 117 | 958351  | 150.80  | ug/l | 97     |

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 ClientSampleId :  
 VSTDICC150

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 05:56:32 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 5.63  | 83   | 773054   | 125.07  | ug/l  | 98       |
| 40) Benzene                    | 4.81  | 78   | 1782300  | 127.26  | ug/l  | 98       |
| 41) Methacrylonitrile          | 4.92  | 41   | 251984   | 141.07  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 5.11  | 62   | 837743   | 139.30  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 7.10  | 43   | 703249   | 147.06  | ug/l  | 95       |
| 44) Trichloroethene            | 5.68  | 130  | 558844   | 128.12  | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 6.40  | 63   | 515726   | 126.67  | ug/l  | 99       |
| 46) Dibromomethane             | 6.26  | 93   | 408079   | 132.78  | ug/l  | 91       |
| 47) Bromodichloromethane       | 6.54  | 83   | 874203   | 128.92  | ug/l  | 98       |
| 48) Methyl methacrylate        | 6.87  | 41   | 436991   | 144.57  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 6.86  | 88   | 47931    | 2298.06 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.41  | 43   | 2030506  | 611.68  | ug/l  | 97       |
| 52) Toluene                    | 7.78  | 92   | 1250363  | 125.74  | ug/l  | 93       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 853476   | 131.74  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 7.46  | 75   | 1000603  | 134.44  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 8.64  | 97   | 478453   | 132.34  | ug/l  | 97       |
| 56) Ethyl methacrylate         | 8.76  | 69   | 637776   | 139.49  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 9.00  | 76   | 826243   | 131.27  | ug/l  | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 7.77  | 63   | 204123   | 645.78  | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.63  | 43   | 1609165  | 619.06  | ug/l  | 99       |
| 60) Dibromochloromethane       | 8.87  | 129  | 703142   | 136.78  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.14  | 107  | 575641   | 133.46  | ug/l  | 97       |
| 64) Tetrachloroethene          | 8.31  | 164  | 553817   | 132.59  | ug/l  | 92       |
| 65) Chlorobenzene              | 9.94  | 112  | 1516265  | 135.24  | ug/l  | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.07 | 131  | 593439   | 135.41  | ug/l  | 98       |
| 67) Ethyl Benzene              | 10.04 | 91   | 2417681  | 122.69  | ug/l  | 95       |
| 68) m/p-Xylenes                | 10.27 | 106  | 1806008  | 247.21  | ug/l  | 90       |
| 69) o-Xylene                   | 10.83 | 106  | 1007260  | 126.59  | ug/l  | 90       |
| 70) Styrene                    | 10.90 | 104  | 1521217  | 127.50  | ug/l  | 99       |
| 71) Bromoform                  | 10.89 | 173  | 443864   | 147.27  | ug/l  | # 93     |
| 73) Isopropylbenzene           | 11.22 | 105  | 2656145  | 121.75  | ug/l  | 94       |
| 74) N-amyl acetate             | 11.46 | 43   | 1022888  | 125.73  | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.79 | 83   | 691597   | 132.34  | ug/l  | 98       |
| 76) 1,2,3-Trichloropropane     | 11.89 | 75   | 515050   | 135.06  | ug/l  | 97       |
| 77) Bromobenzene               | 11.60 | 156  | 737965   | 135.74  | ug/l  | 83       |
| 78) n-propylbenzene            | 11.69 | 91   | 3069463  | 117.75  | ug/l  | 94       |
| 79) 2-Chlorotoluene            | 11.82 | 91   | 1918324  | 124.57  | ug/l  | 97       |
| 80) 1,3,5-Trimethylbenzene     | 11.91 | 105  | 2191922  | 121.19  | ug/l  | 92       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 340768   | 141.09  | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 11.99 | 91   | 2029774  | 124.98  | ug/l  | 94       |
| 83) tert-Butylbenzene          | 12.22 | 119  | 2075441  | 114.73  | ug/l  | 97       |
| 84) 1,2,4-Trimethylbenzene     | 12.29 | 105  | 2251661  | 120.01  | ug/l  | 96       |
| 85) sec-Butylbenzene           | 12.39 | 105  | 2938607  | 119.93  | ug/l  | 94       |
| 86) p-Isopropyltoluene         | 12.54 | 119  | 2344235  | 114.76  | ug/l  | 95       |
| 87) 1,3-Dichlorobenzene        | 12.56 | 146  | 1207043  | 120.43  | ug/l  | 97       |
| 88) 1,4-Dichlorobenzene        | 12.64 | 146  | 1248670  | 129.77  | ug/l  | 95       |
| 89) n-Butylbenzene             | 12.92 | 91   | 2321723  | 109.05  | ug/l  | 92       |
| 90) Hexachloroethane           | 13.00 | 117  | 633726   | 128.64  | ug/l  | 69       |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 1222842  | 125.69  | ug/l  | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.71 | 75   | 148230   | 148.71  | ug/l  | 93       |

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Sample : VSTDICC150  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICC150

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Quant Title : SW846 8260  
QLast Update : Thu Jun 07 05:56:32 2018  
Response via : Initial Calibration

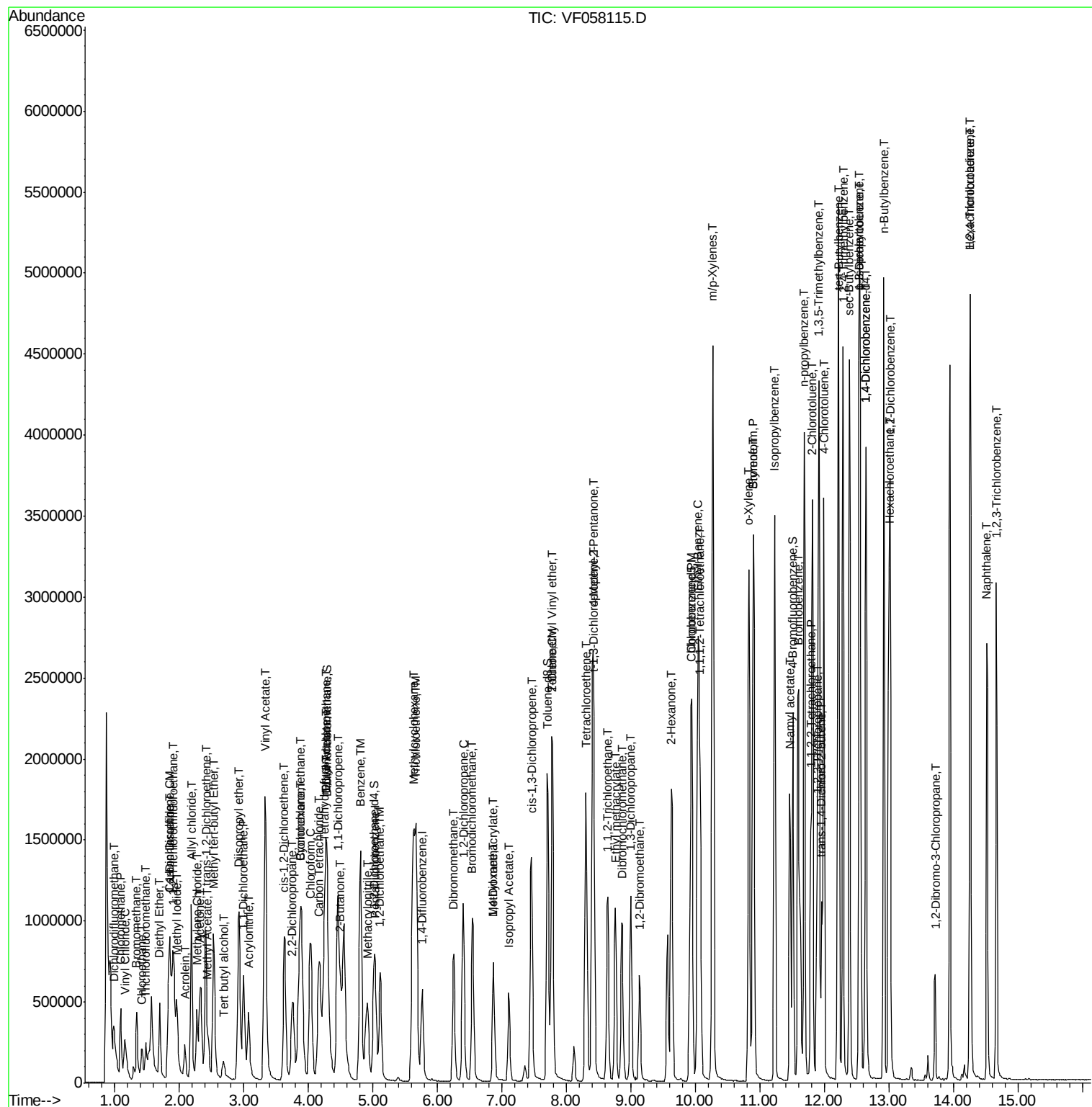
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.27 | 180  | 828302   | 121.39 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.25 | 225  | 501051   | 127.19 | ug/l  | 97       |
| 95) Naphthalene            | 14.52 | 128  | 2039873  | 140.03 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 14.66 | 180  | 842643   | 131.07 | ug/l  | 99       |

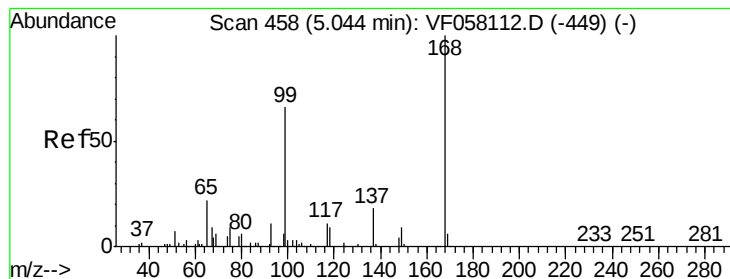
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 Sample : VSTDICC150  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 Client Sample Id :  
 VSTDICC150

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 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

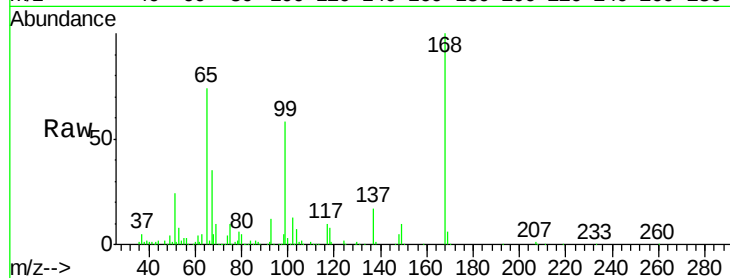
VSTDIC150

Tgt Ion: 168 Resp: 348440

Ion Ratio Lower Upper

168 100

99 58.3 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

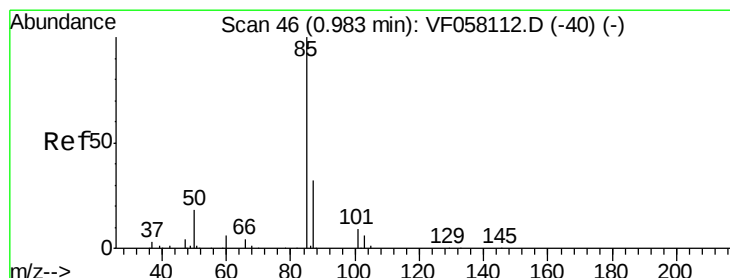
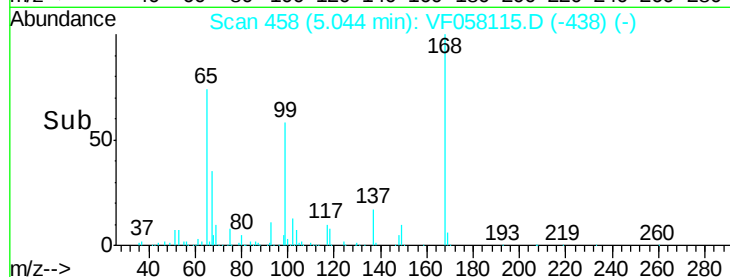
100000

50000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 137.50 ug/l

RT: 0.98 min Scan# 46

Delta R.T. -0.00 min

Lab File: VF058115.D

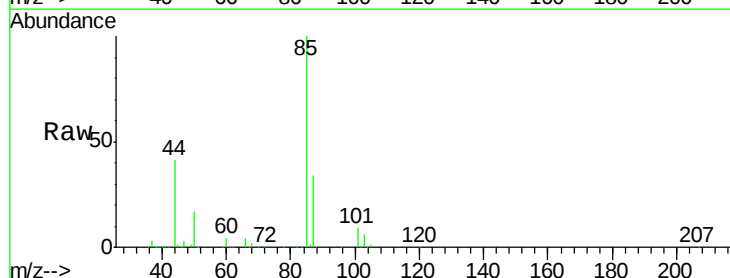
Acq: 6 Jun 2018 19:05

Tgt Ion: 85 Resp: 578606

Ion Ratio Lower Upper

85 100

87 34.1 16.2 48.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

150000

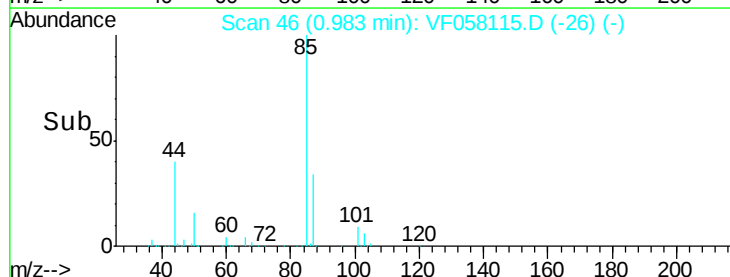
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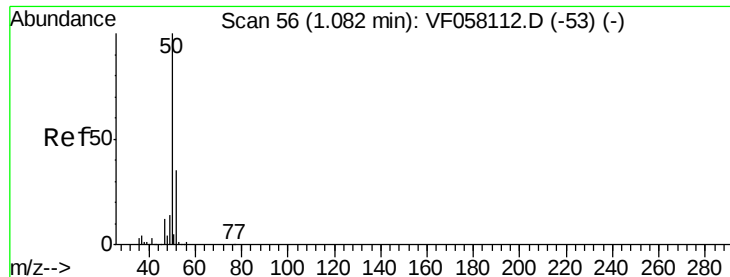
50000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 134.28 ug/l

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

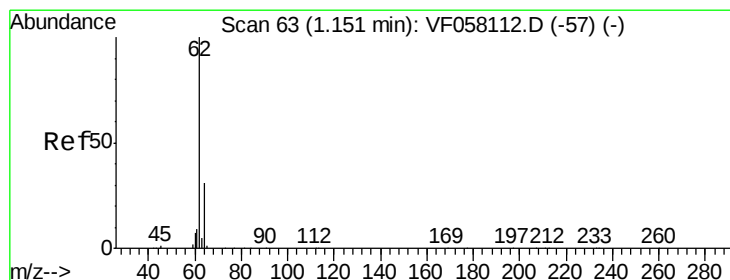
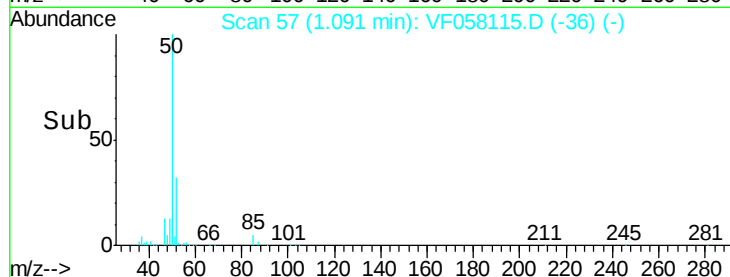
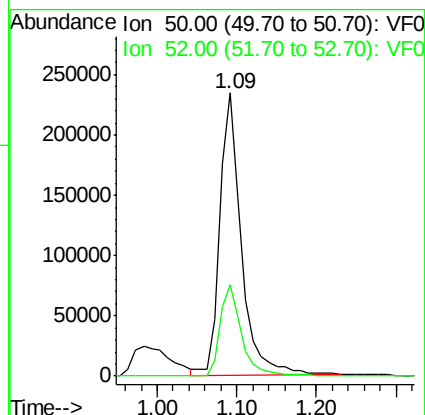
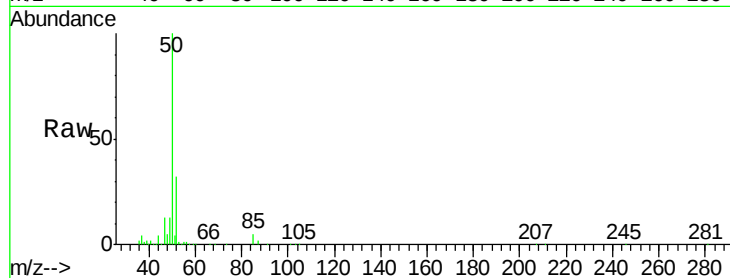
VSTDIC150

Tgt Ion: 50 Resp: 447662

Ion Ratio Lower Upper

50 100

52 32.5 27.3 40.9



#4

Vinyl Chloride

Concen: 156.47 ug/l

RT: 1.16 min Scan# 64

Delta R.T. 0.01 min

Lab File: VF058115.D

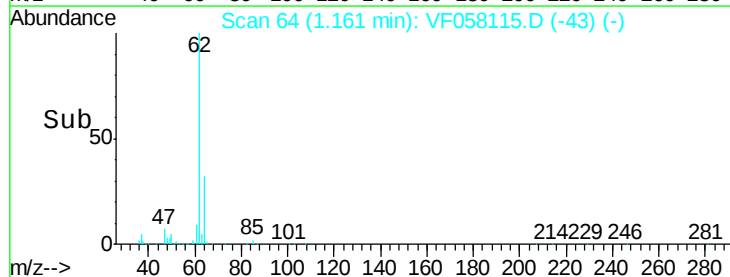
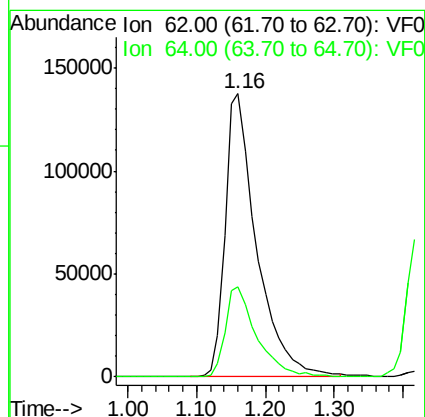
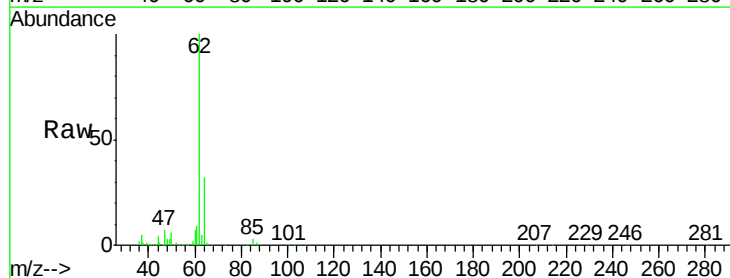
Acq: 6 Jun 2018 19:05

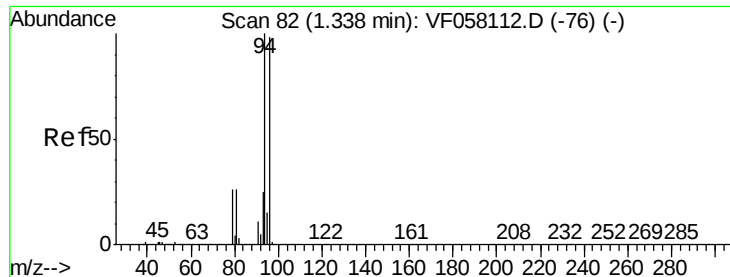
Tgt Ion: 62 Resp: 435534

Ion Ratio Lower Upper

62 100

64 31.8 25.0 37.6





#5

Bromomethane

Concen: 153.51 ug/l

RT: 1.34 min Scan# 82

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

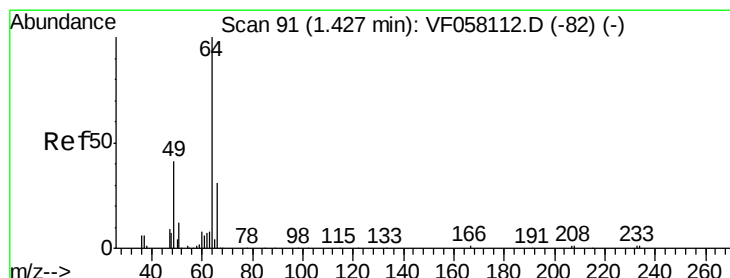
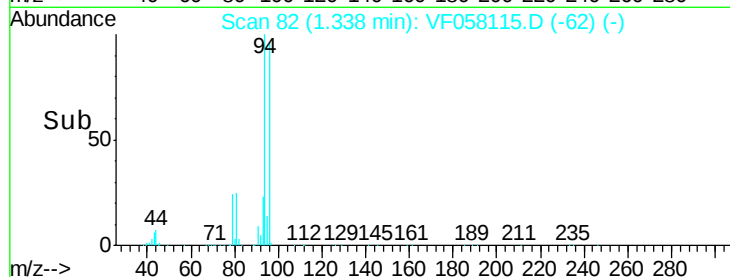
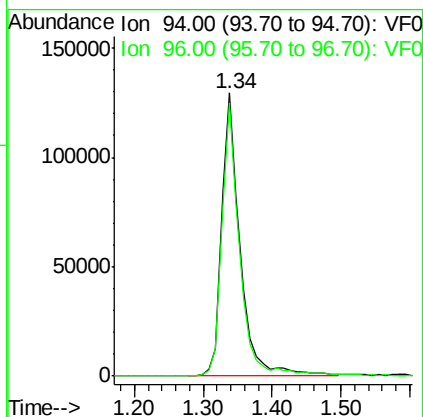
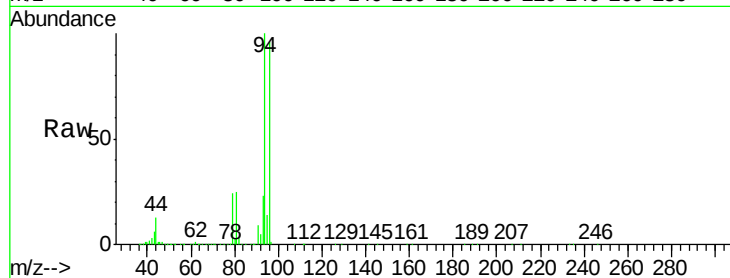
VSTDIC150

Tgt Ion: 94 Resp: 241937

Ion Ratio Lower Upper

94 100

96 96.4 78.6 117.8



#6

Chloroethane

Concen: 144.60 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.00 min

Lab File: VF058115.D

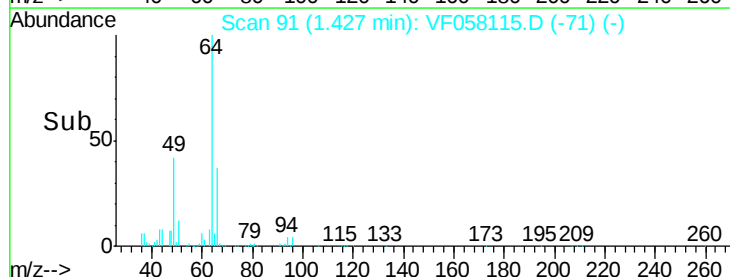
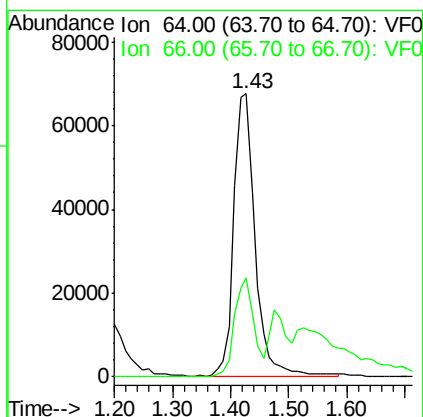
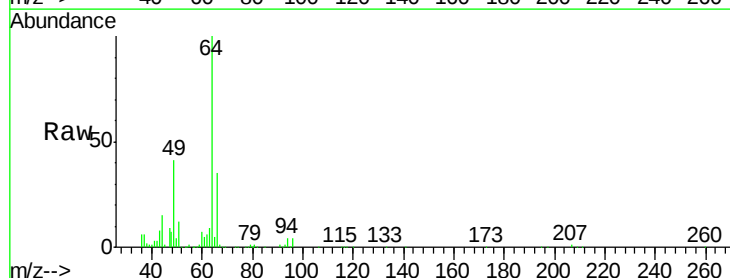
Acq: 6 Jun 2018 19:05

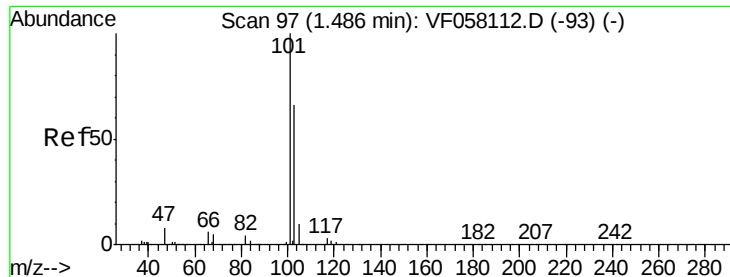
Tgt Ion: 64 Resp: 171445

Ion Ratio Lower Upper

64 100

66 34.8 24.9 37.3





#7

Trichlorofluoromethane

Concen: 46.52 ug/l

RT: 1.48 min Scan# 96

Delta R.T. -0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

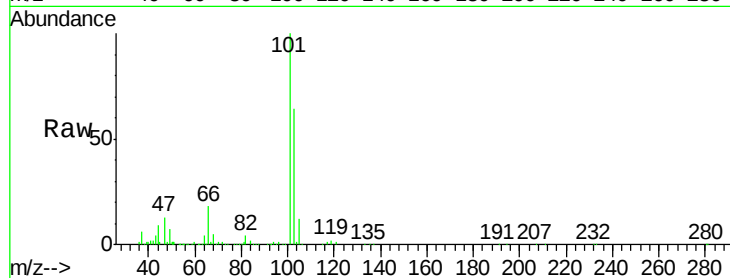
VSTDIC150

Tgt Ion:101 Resp: 196680

Ion Ratio Lower Upper

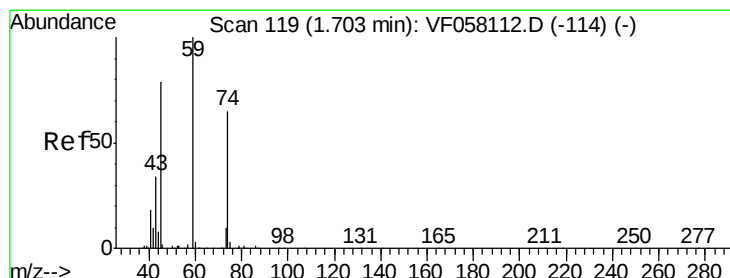
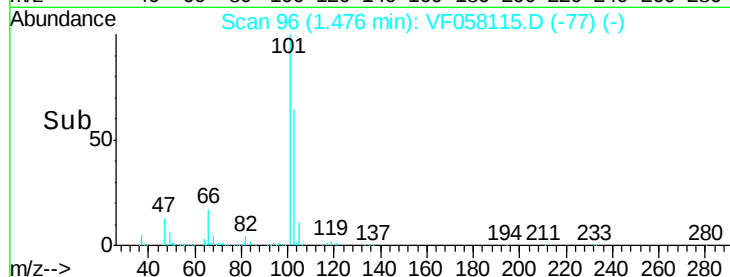
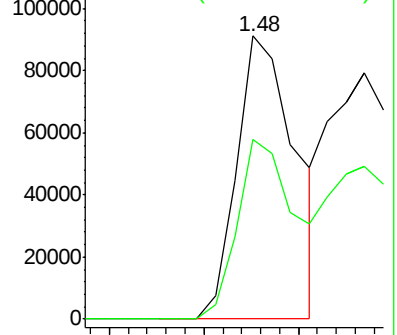
101 100

103 63.7 53.4 80.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 148.67 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF058115.D

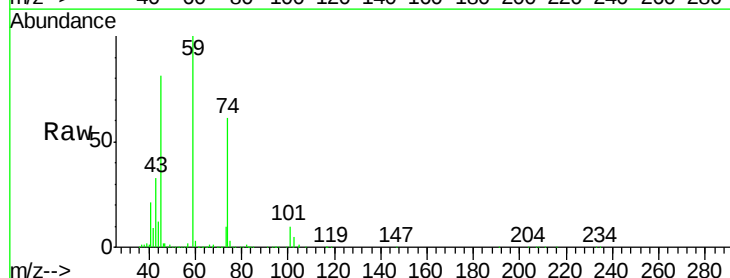
Acq: 6 Jun 2018 19:05

Tgt Ion: 74 Resp: 153071

Ion Ratio Lower Upper

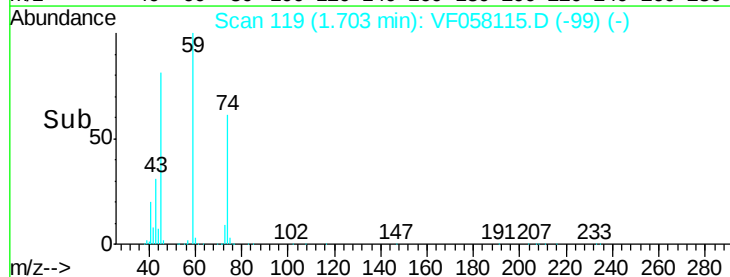
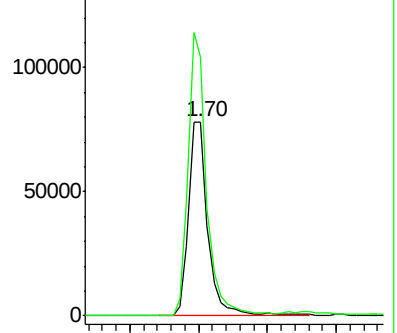
74 100

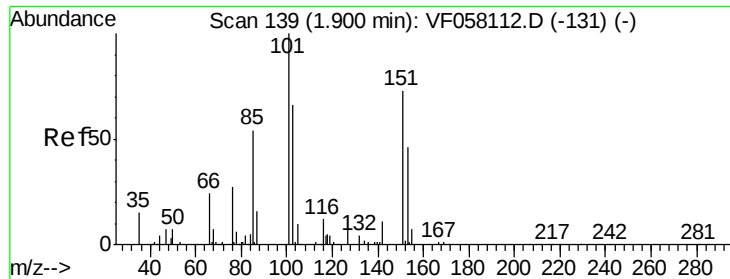
45 133.3 61.5 184.4



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: 138.57 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

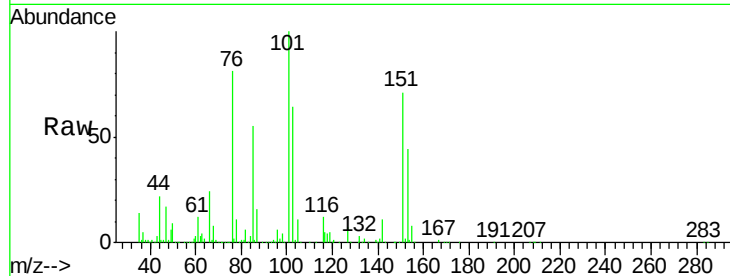
Tgt Ion:101 Resp: 361073

Ion Ratio Lower Upper

101 100

85 54.6 42.2 63.4

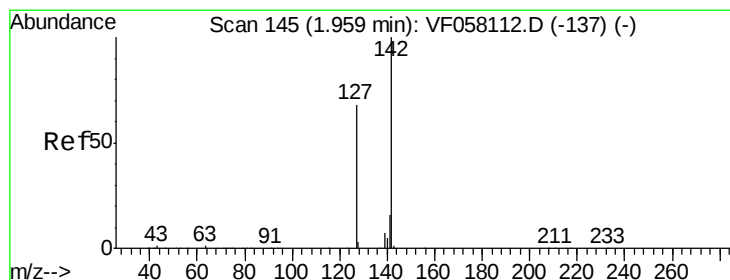
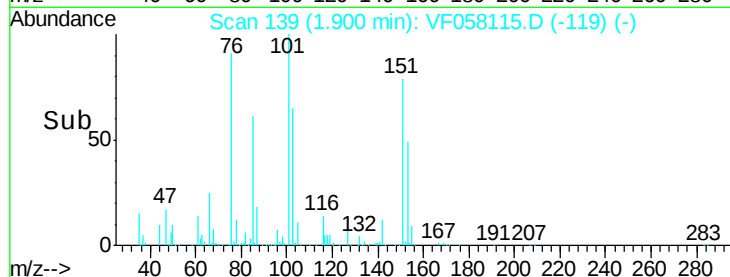
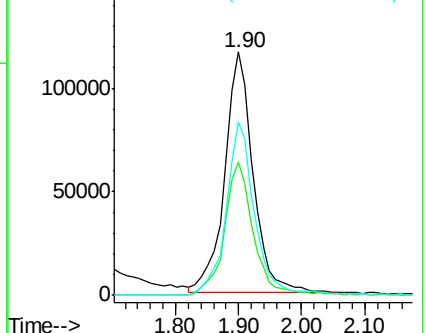
151 70.9 56.8 85.2



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: 146.19 ug/l

RT: 1.96 min Scan# 145

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

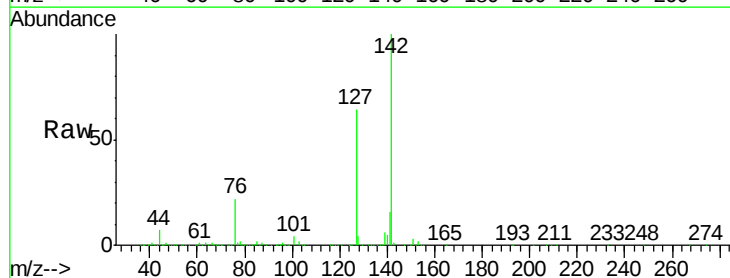
Tgt Ion:142 Resp: 677261

Ion Ratio Lower Upper

142 100

127 64.2 54.1 81.1

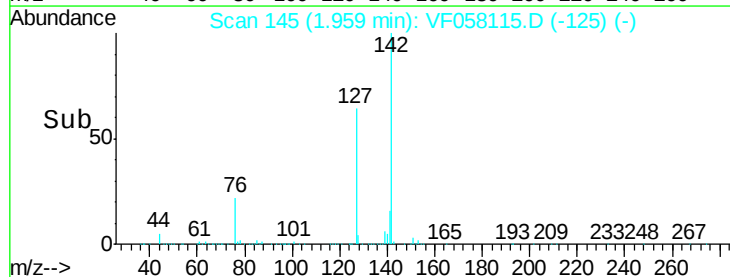
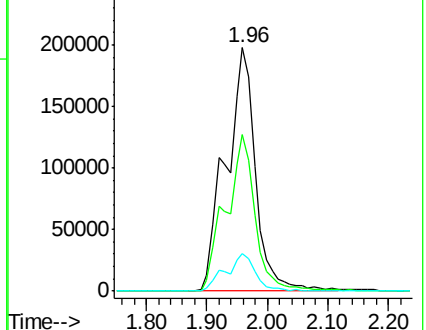
141 15.6 13.0 19.4

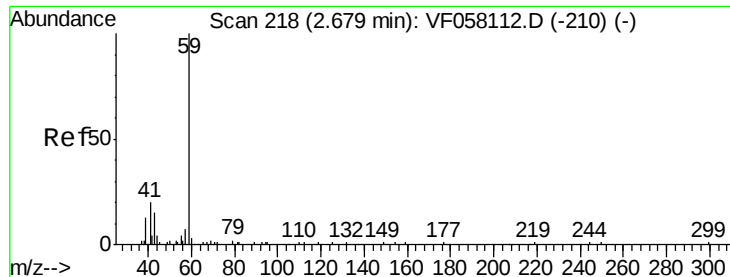


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



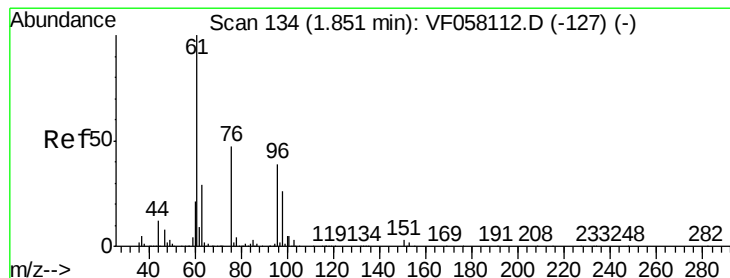
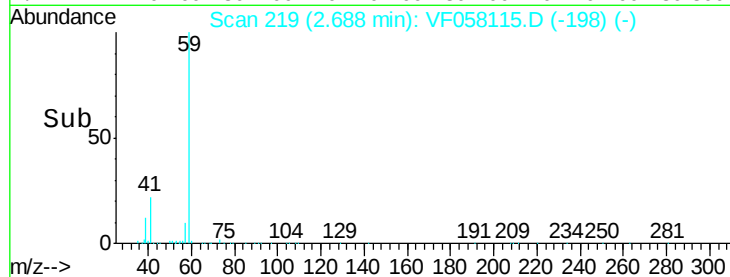
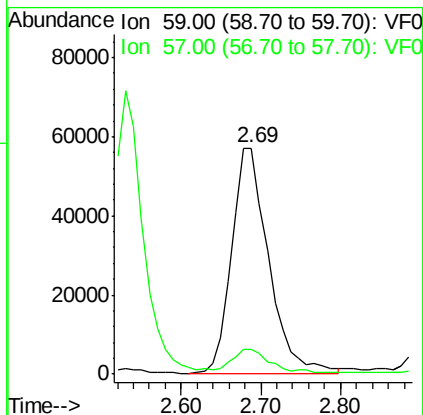
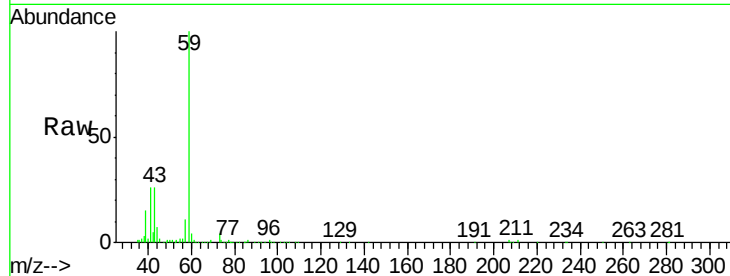


#11

Tert butyl alcohol  
Concen: 742.00 ug/l  
RT: 2.69 min Scan# 219  
Delta R.T. 0.01 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC150

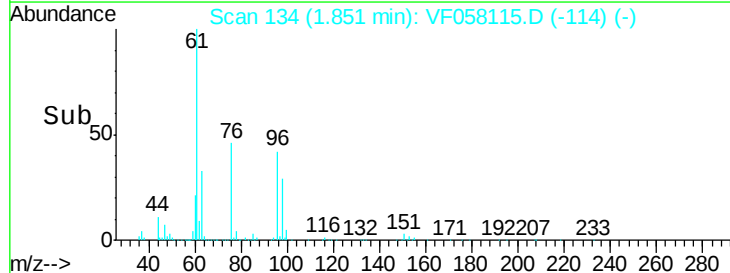
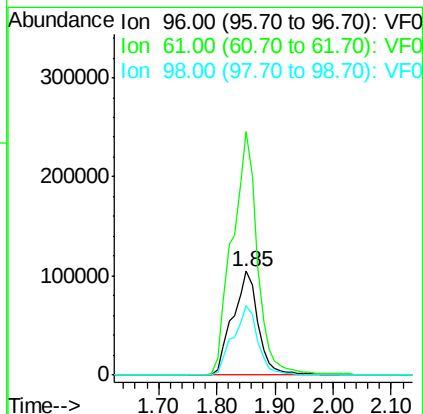
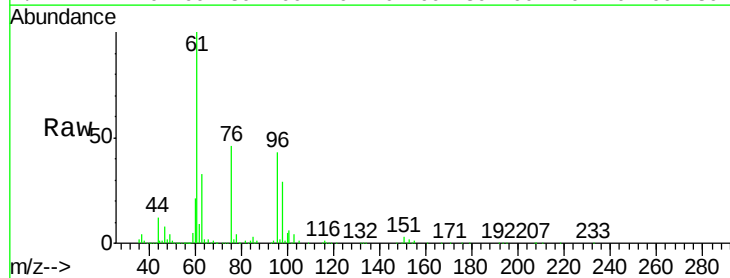
Tgt Ion: 59 Resp: 183740  
Ion Ratio Lower Upper  
59 100  
57 10.7 8.7 13.1

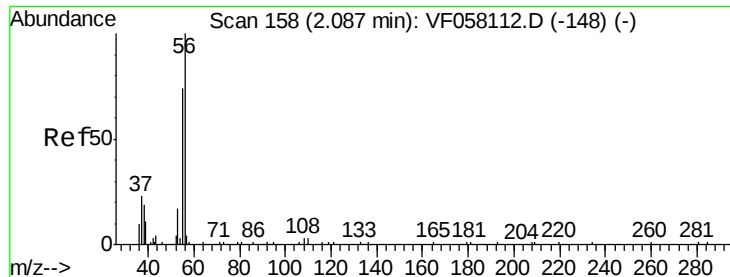


#12

1,1-Dichloroethene  
Concen: 140.93 ug/l  
RT: 1.85 min Scan# 134  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

Tgt Ion: 96 Resp: 319533  
Ion Ratio Lower Upper  
96 100  
61 235.0 203.0 304.4  
98 67.6 52.7 79.1





#13

Acrolein

Concen: 1025.41 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

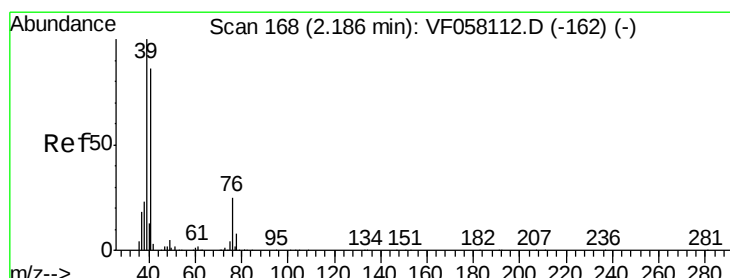
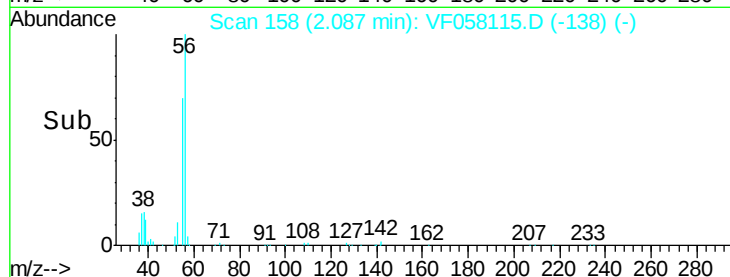
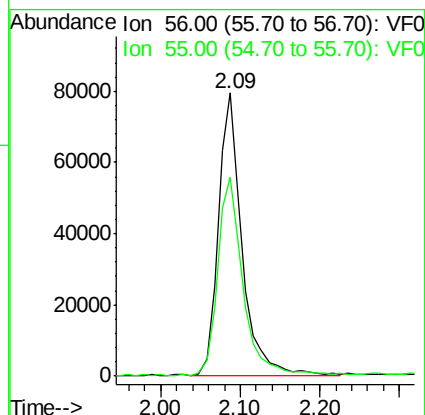
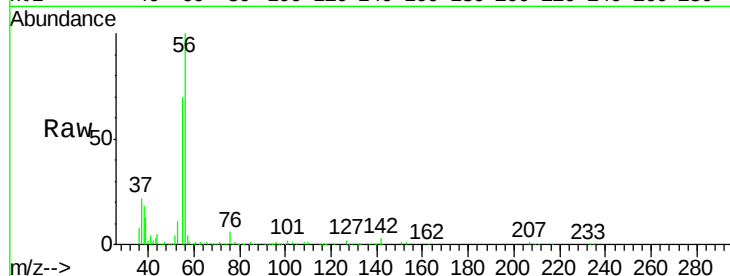
VSTDIC150

Tgt Ion: 56 Resp: 165176

Ion Ratio Lower Upper

56 100

55 70.2 60.0 90.0



#14

Allyl chloride

Concen: 149.26 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

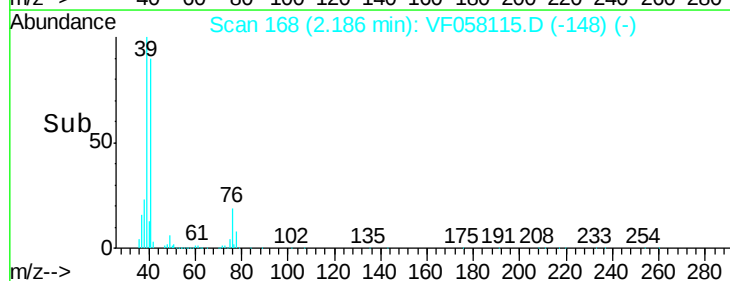
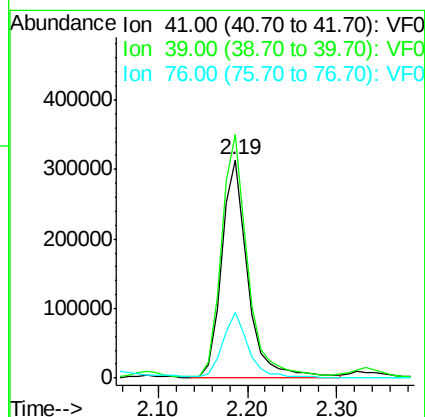
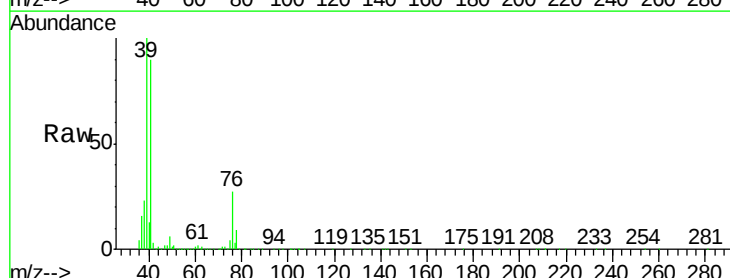
Tgt Ion: 41 Resp: 647026

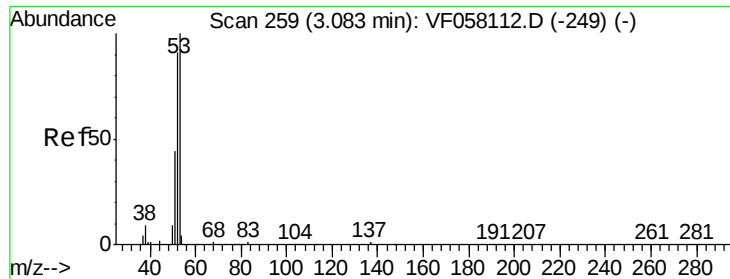
Ion Ratio Lower Upper

41 100

39 111.4 93.5 140.3

76 30.2 23.9 35.9

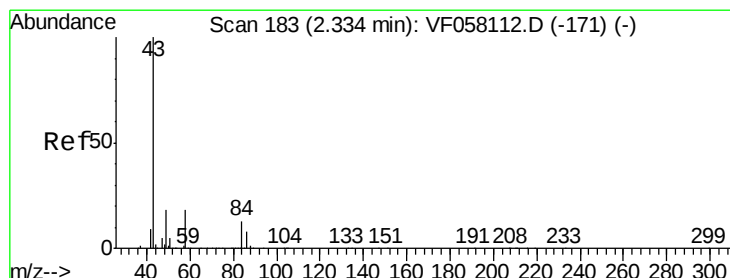
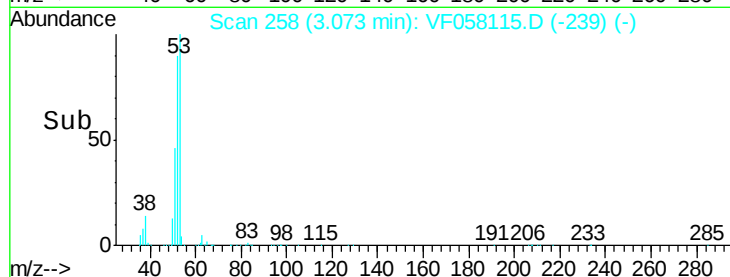
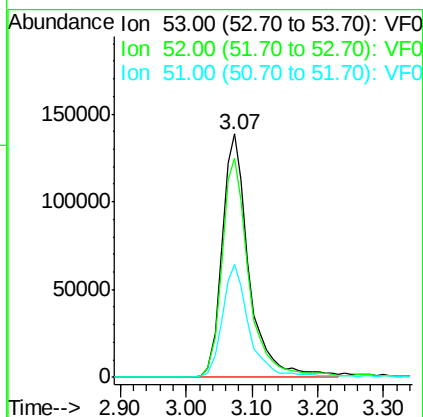
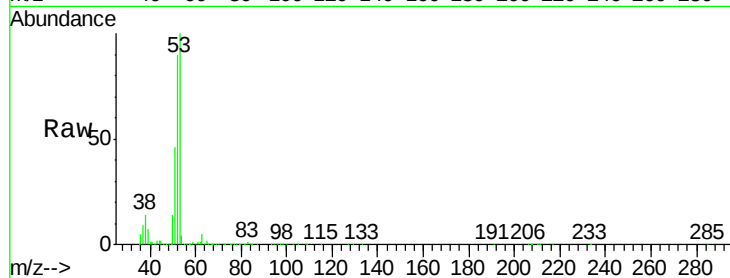




#15  
 Acrylonitrile  
 Concen: 684.31 ug/l  
 RT: 3.07 min Scan# 258  
 Delta R.T. -0.01 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

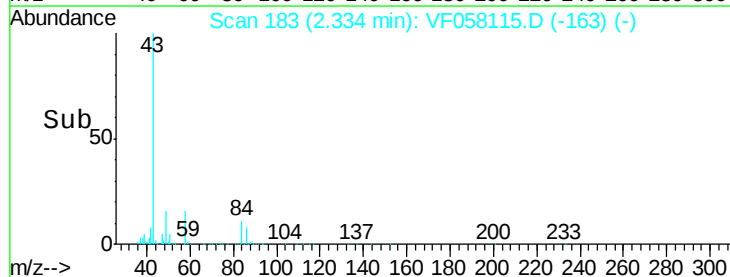
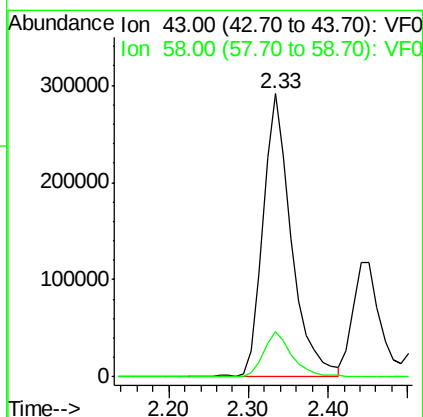
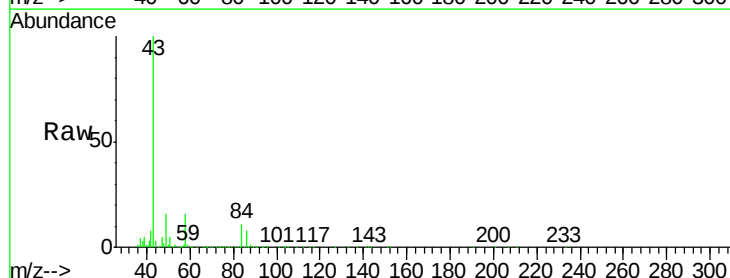
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC150

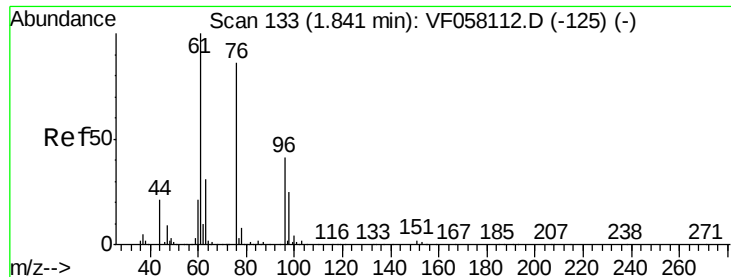
Tgt Ion: 53 Resp: 391739  
 Ion Ratio Lower Upper  
 53 100  
 52 89.9 73.2 109.8  
 51 46.5 35.6 53.4



#16  
 Acetone  
 Concen: 753.94 ug/l  
 RT: 2.33 min Scan# 183  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

Tgt Ion: 43 Resp: 714943  
 Ion Ratio Lower Upper  
 43 100  
 58 16.0 14.4 21.6

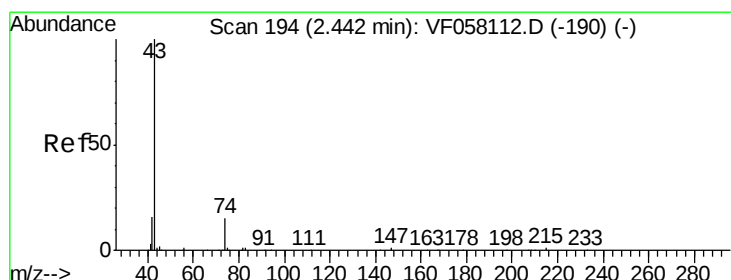
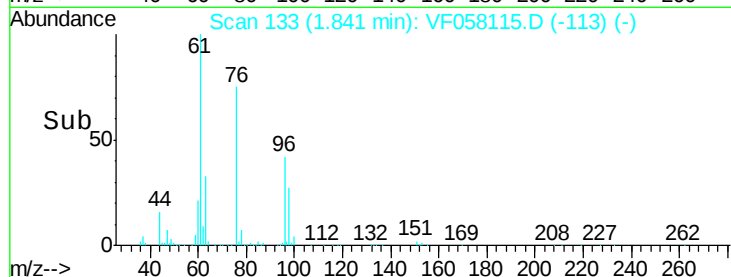
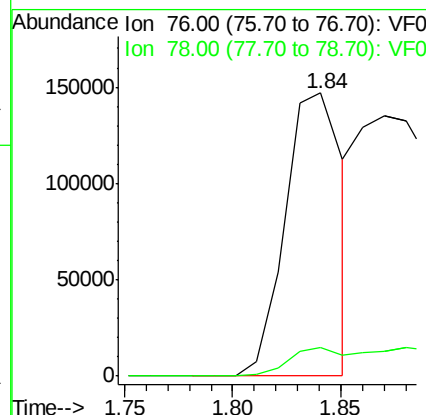
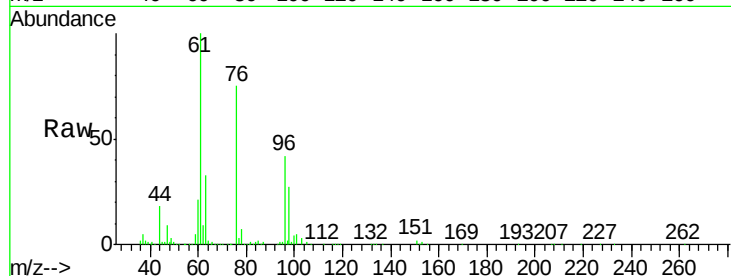




#17  
Carbon Disulfide  
Concen: 41.98 ug/l  
RT: 1.84 min Scan# 133  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

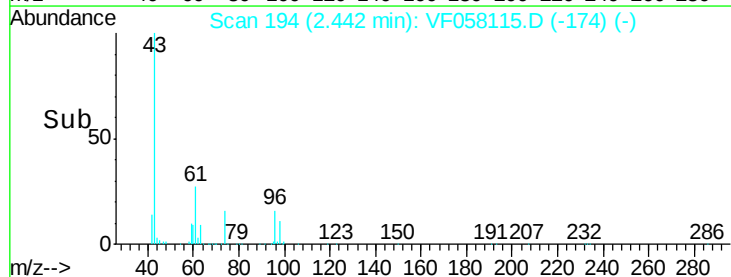
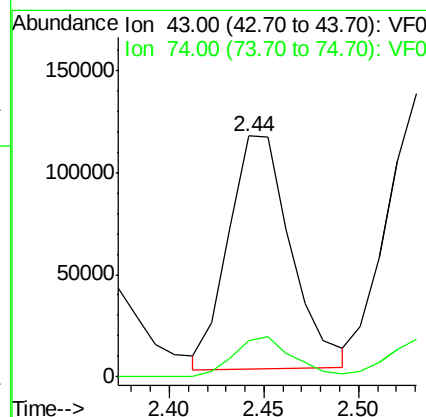
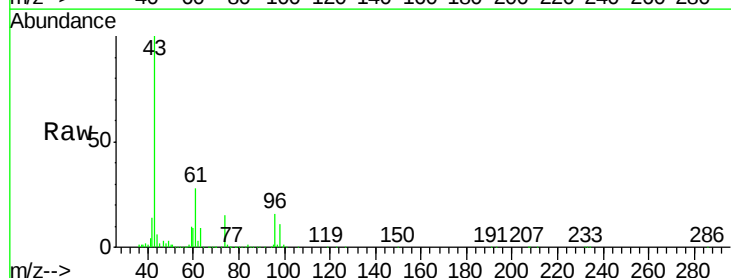
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC150

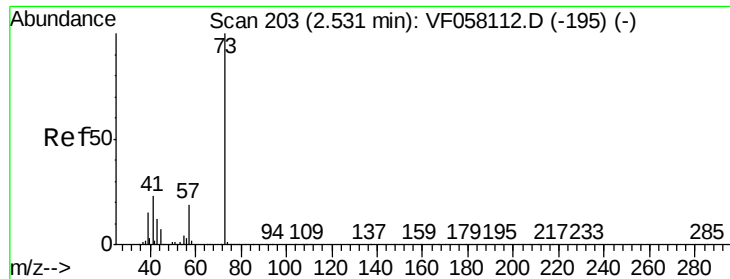
Tgt Ion: 76 Resp: 273133  
Ion Ratio Lower Upper  
76 100  
78 9.9 7.8 11.8



#18  
Methyl Acetate  
Concen: 147.67 ug/l  
RT: 2.44 min Scan# 194  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

Tgt Ion: 43 Resp: 261145  
Ion Ratio Lower Upper  
43 100  
74 15.4 10.9 16.3





#19

Methyl tert-butyl Ether

Concen: 142.91 ug/l

RT: 2.53 min Scan# 203

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

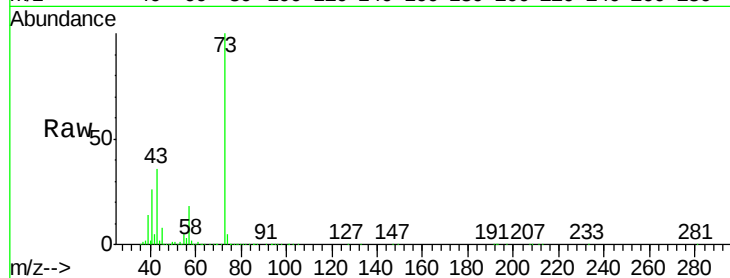
VSTDIC150

Tgt Ion: 73 Resp: 1014731

Ion Ratio Lower Upper

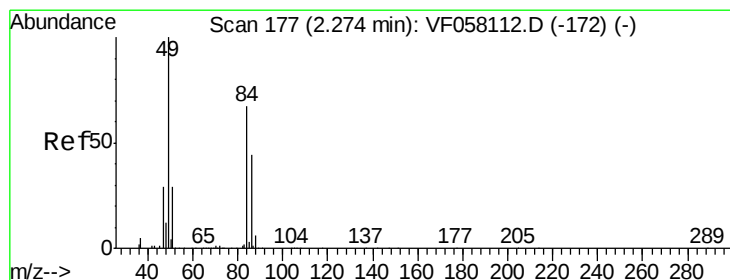
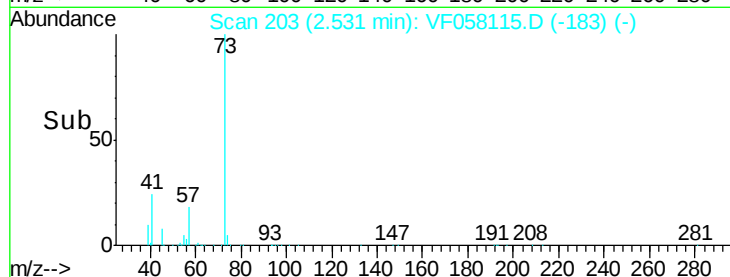
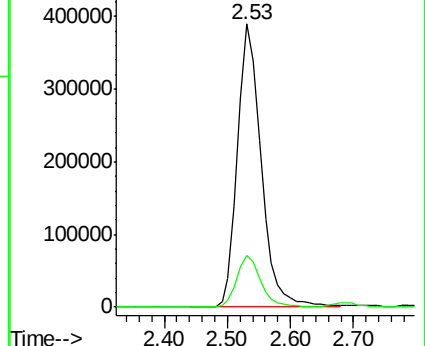
73 100

57 18.4 15.0 22.4



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#20

Methylene Chloride

Concen: 75.24 ug/l

RT: 2.27 min Scan# 177

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Tgt Ion: 84 Resp: 174676

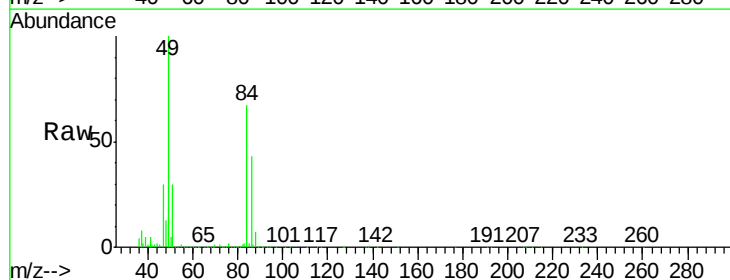
Ion Ratio Lower Upper

84 100

49 148.9 121.0 181.4

51 44.2 35.8 53.6

86 64.7 53.2 79.8

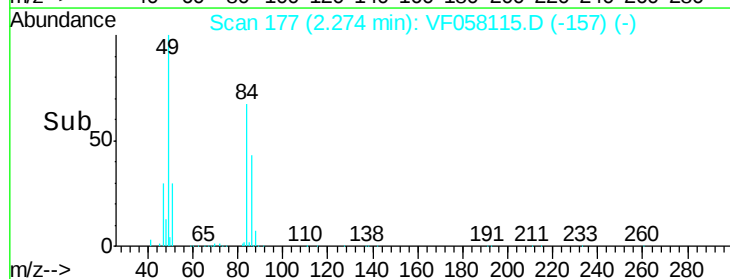
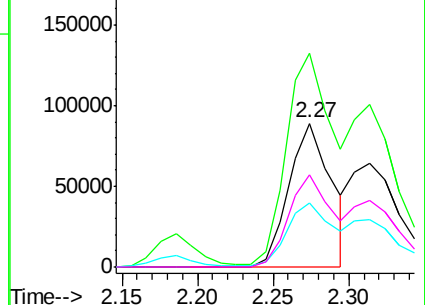


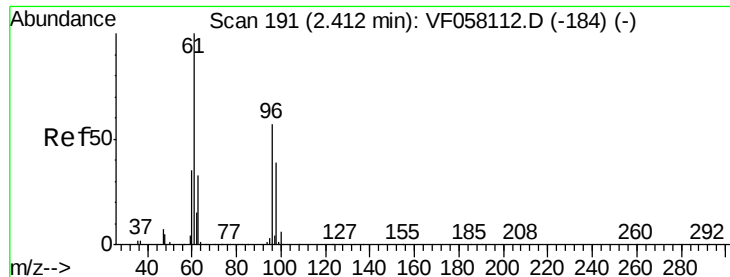
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#21

trans-1,2-Dichloroethene

Concen: 145.26 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

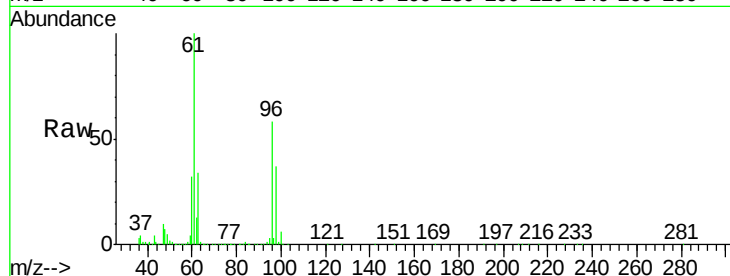
Tgt Ion: 96 Resp: 35538

Ion Ratio Lower Upper

96 100

61 173.2 139.4 209.2

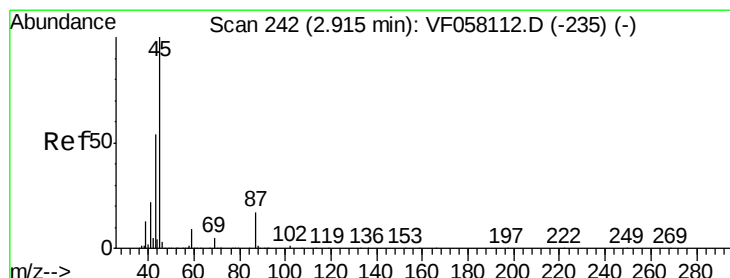
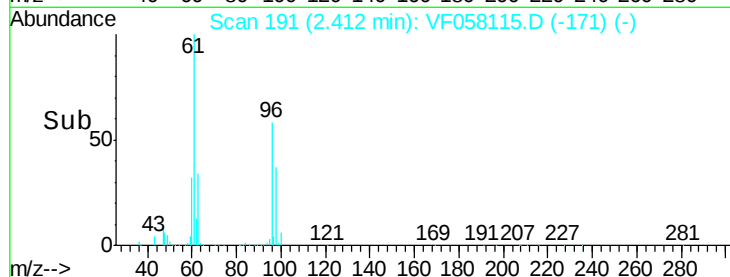
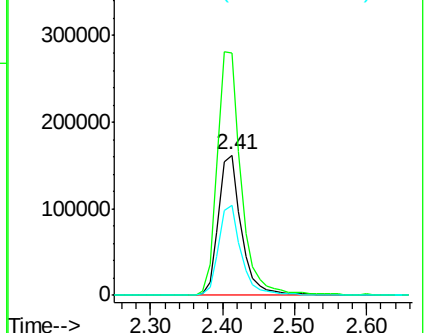
98 64.6 54.0 81.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 151.43 ug/l

RT: 2.92 min Scan# 243

Delta R.T. 0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Tgt Ion: 45 Resp: 1284940

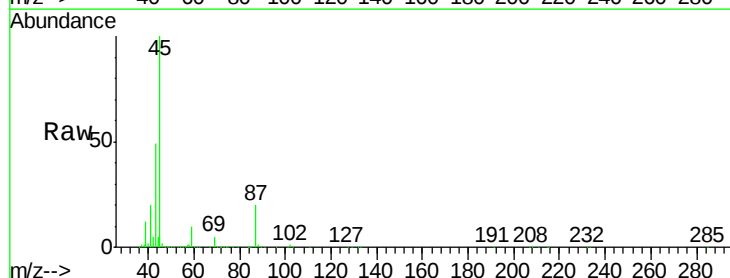
Ion Ratio Lower Upper

45 100

43 49.0 43.2 64.8

87 19.7 13.8 20.6

59 10.0 7.5 11.3

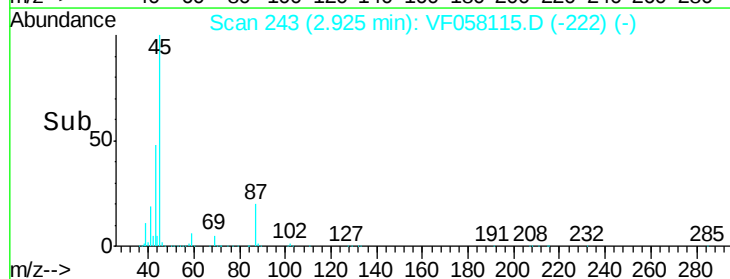
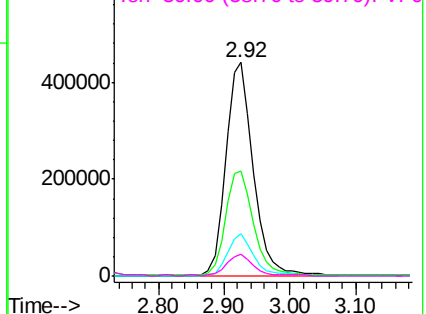


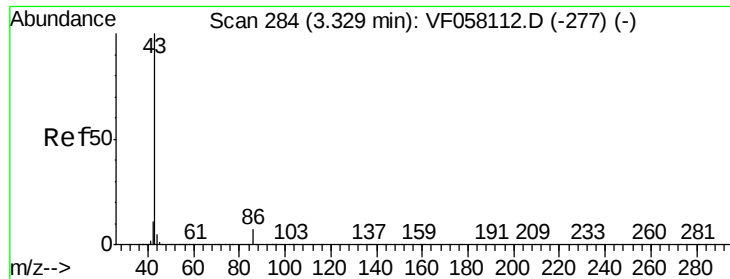
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 639.07 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

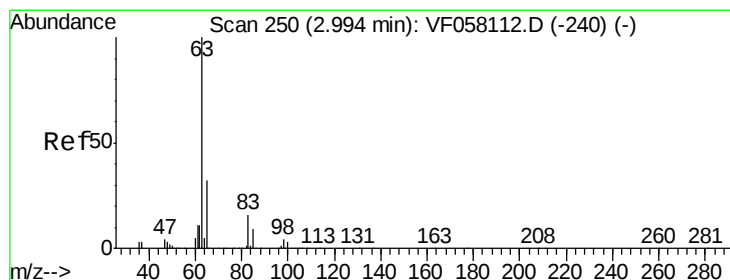
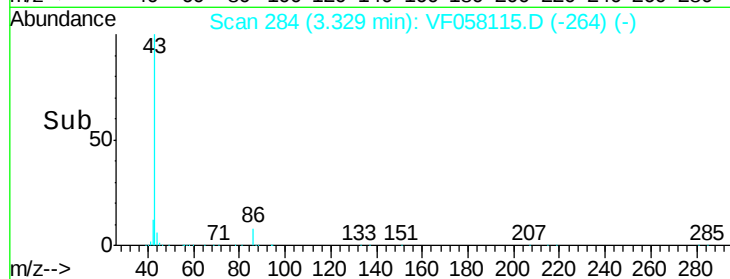
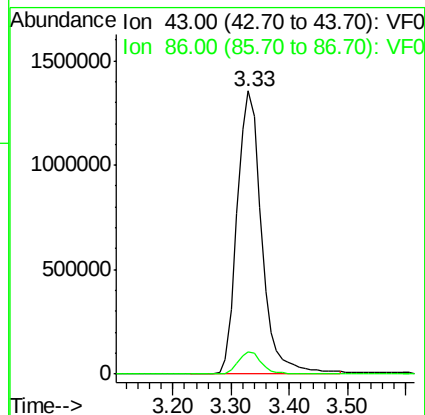
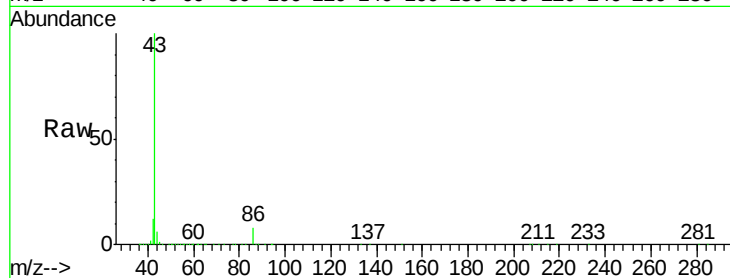
VSTDIC150

Tgt Ion: 43 Resp: 3973206

Ion Ratio Lower Upper

43 100

86 7.7 6.0 9.0



#24

1,1-Dichloroethane

Concen: 145.45 ug/l

RT: 2.99 min Scan# 250

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

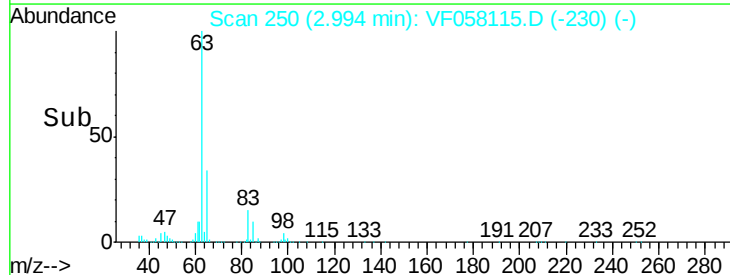
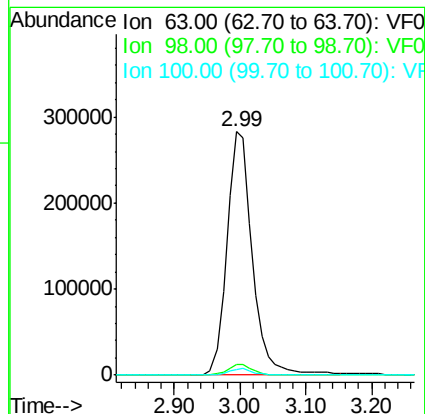
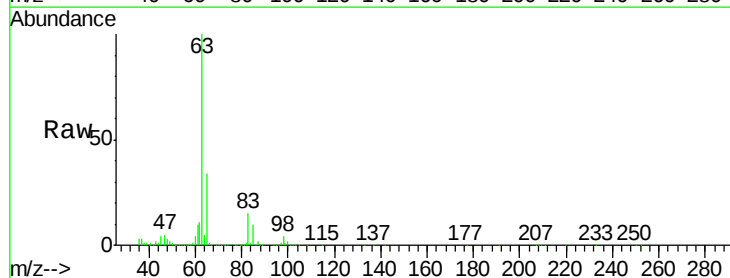
Tgt Ion: 63 Resp: 764536

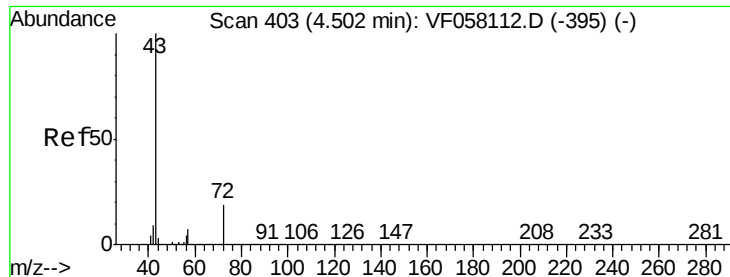
Ion Ratio Lower Upper

63 100

98 4.1 2.0 6.0

100 2.4 1.4 4.0





#25

2-Butanone

Concen: 712.31 ug/l

RT: 4.50 min Scan# 403

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

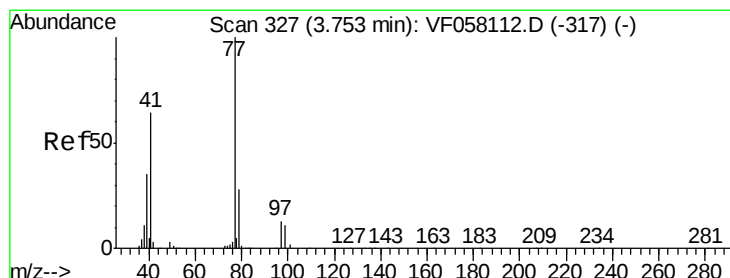
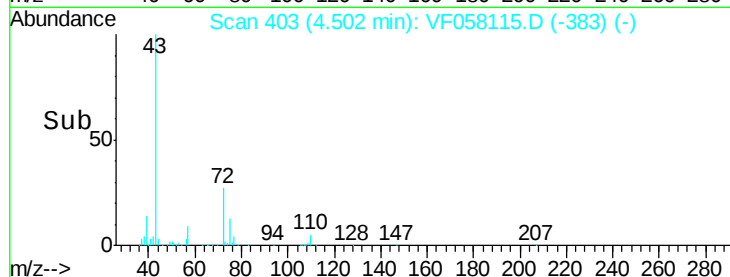
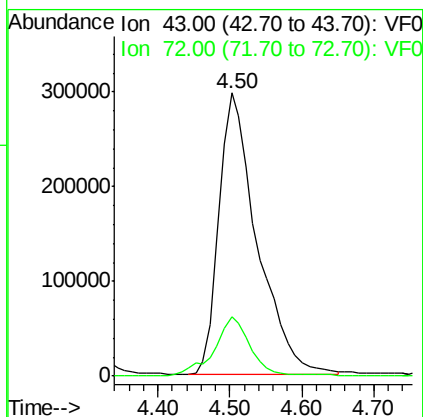
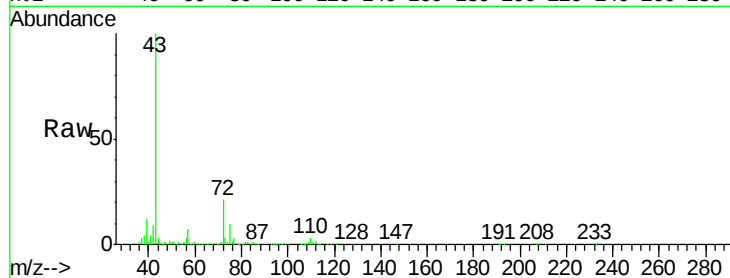
VSTDIC150

Tgt Ion: 43 Resp: 1095702

Ion Ratio Lower Upper

43 100

72 21.1 16.1 24.1



#26

2,2-Dichloropropane

Concen: 135.50 ug/l

RT: 3.75 min Scan# 327

Delta R.T. -0.00 min

Lab File: VF058115.D

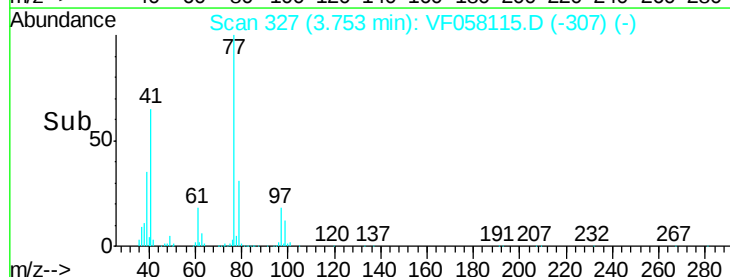
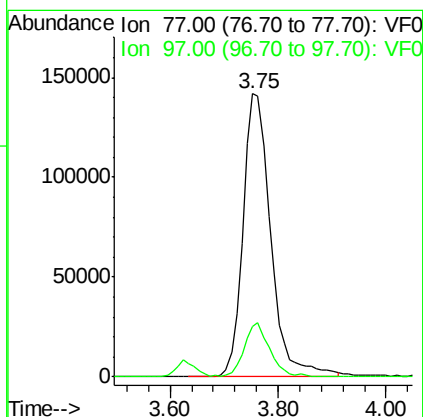
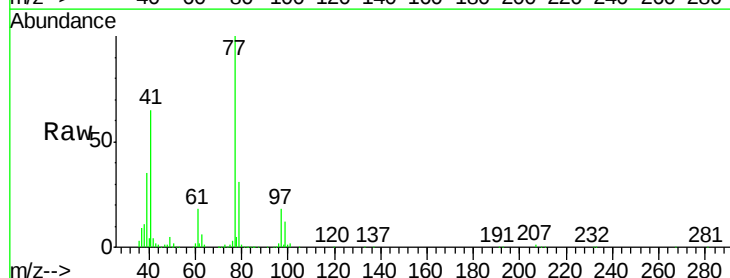
Acq: 6 Jun 2018 19:05

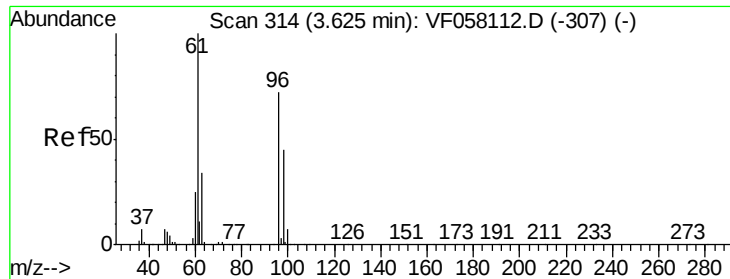
Tgt Ion: 77 Resp: 503344

Ion Ratio Lower Upper

77 100

97 17.8 7.2 21.6



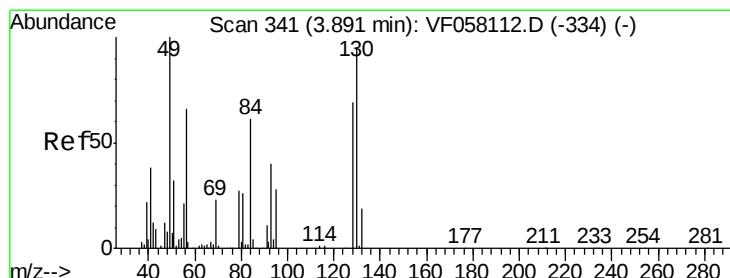
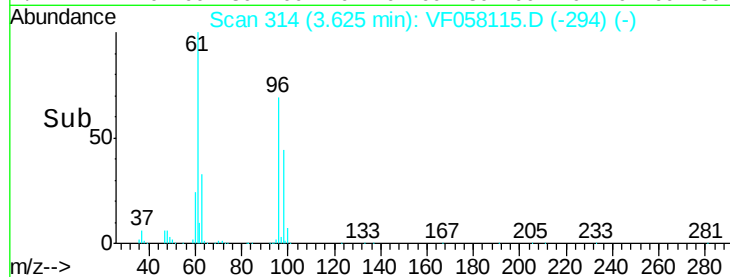
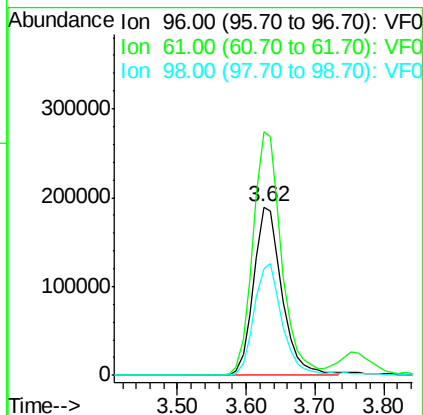
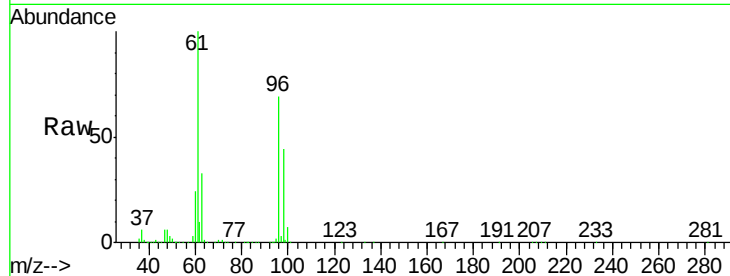


#27

cis-1,2-Dichloroethene  
 Concen: 133.67 ug/l  
 RT: 3.62 min Scan# 314  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC150

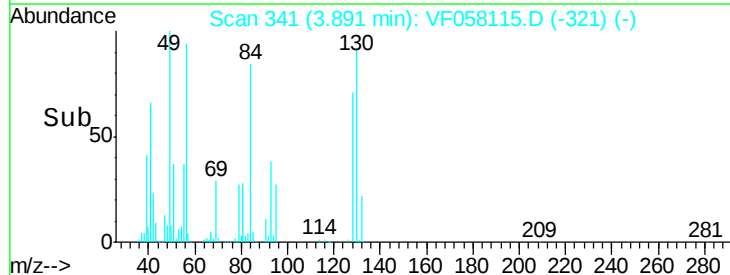
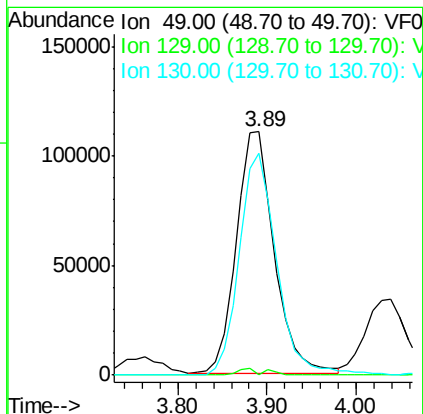
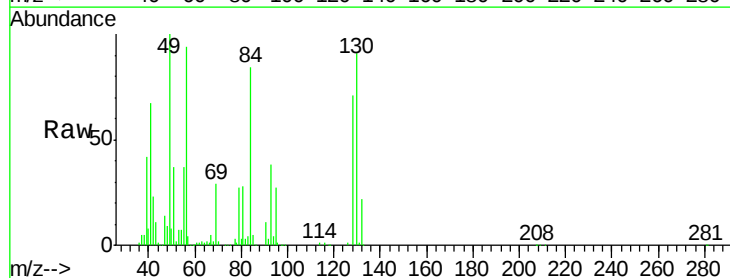
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 144.6 | 0.0   | 278.6 |
| 98      | 63.2  | 0.0   | 125.2 |

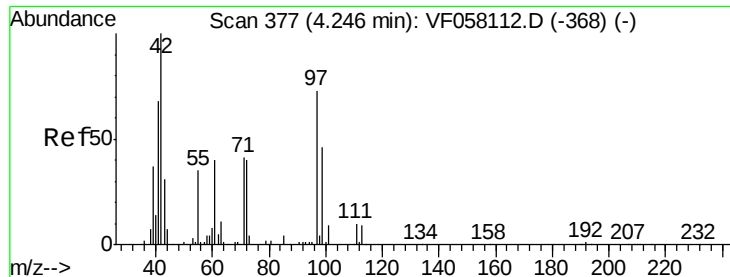


#28

Bromochloromethane  
 Concen: 139.29 ug/l  
 RT: 3.89 min Scan# 341  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 0.0   | 0.0   | 0.0   |
| 130     | 91.4  | 75.8  | 113.8 |





#29

Tetrahydrofuran

Concen: 690.39 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

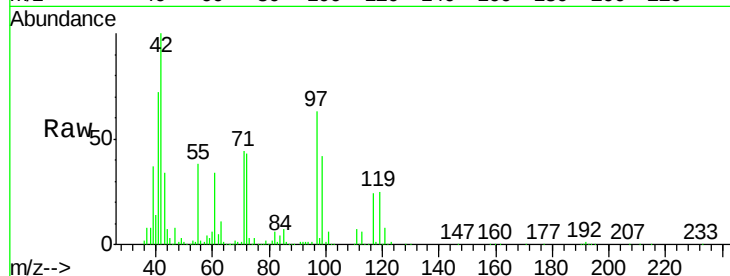
Tgt Ion: 42 Resp: 490201

Ion Ratio Lower Upper

42 100

72 40.4 30.5 45.7

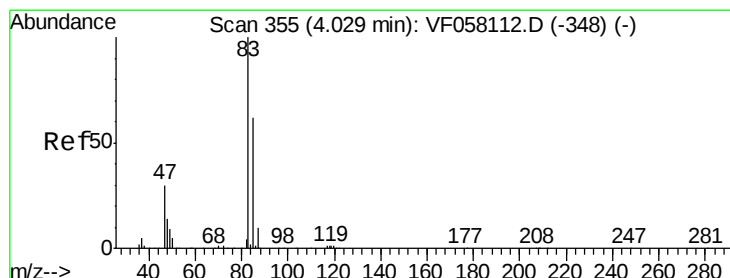
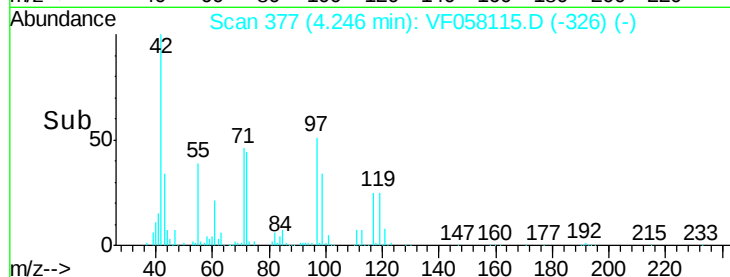
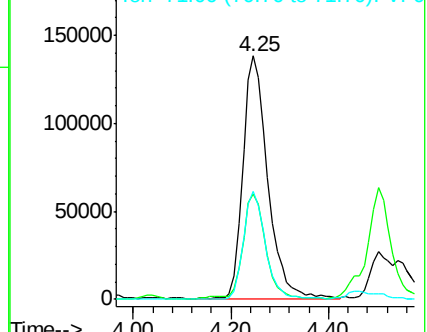
71 39.5 31.5 47.3



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 135.23 ug/l

RT: 4.03 min Scan# 355

Delta R.T. -0.00 min

Lab File: VF058115.D

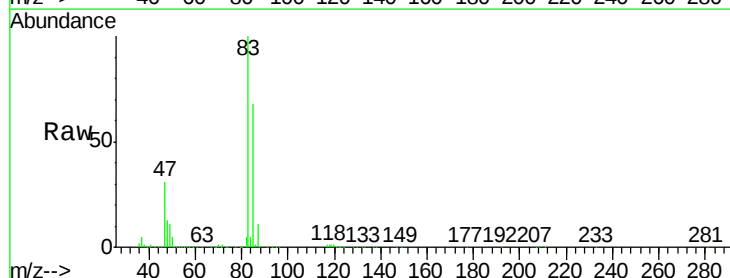
Acq: 6 Jun 2018 19:05

Tgt Ion: 83 Resp: 1066323

Ion Ratio Lower Upper

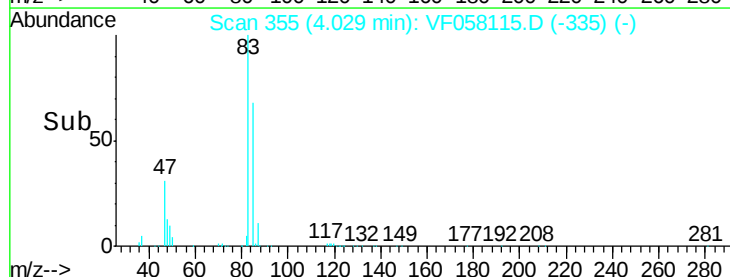
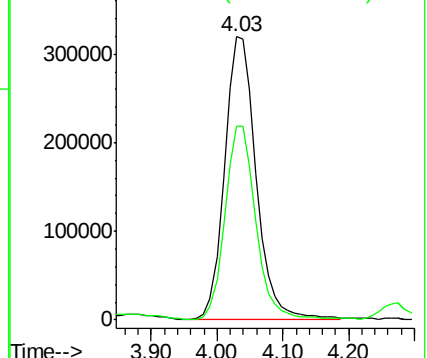
83 100

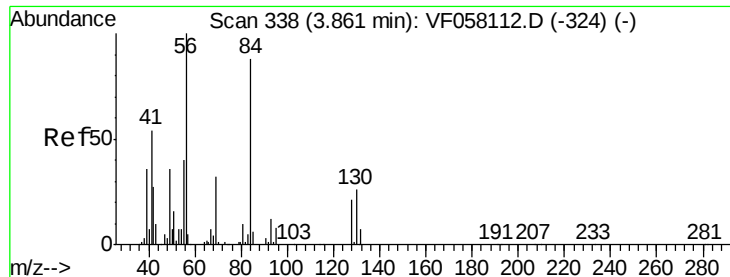
85 68.3 49.5 74.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

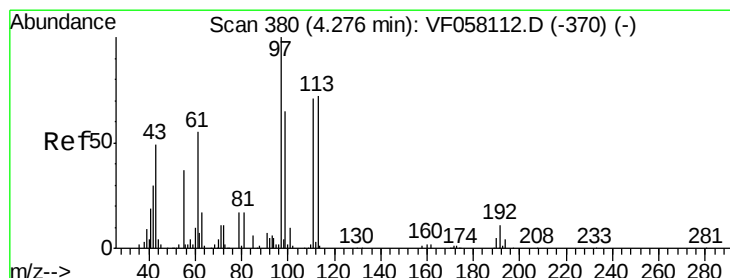
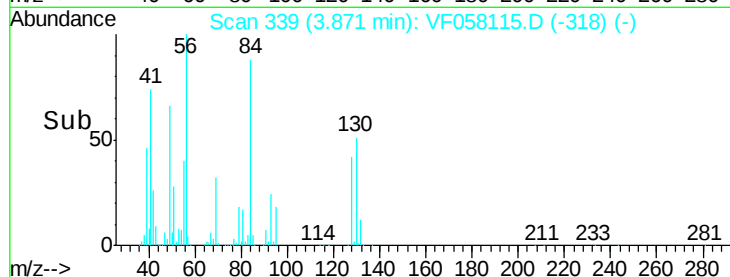
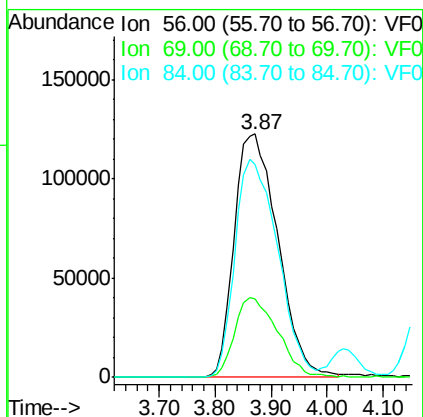
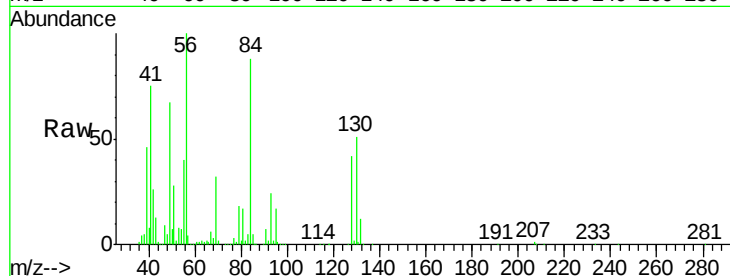




#31  
Cyclohexane  
Concen: 133.54 ug/l  
RT: 3.87 min Scan# 339  
Delta R.T. 0.01 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

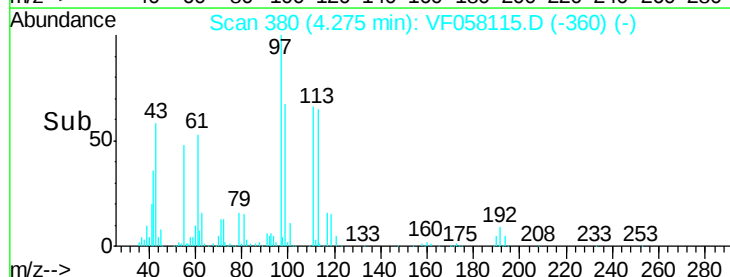
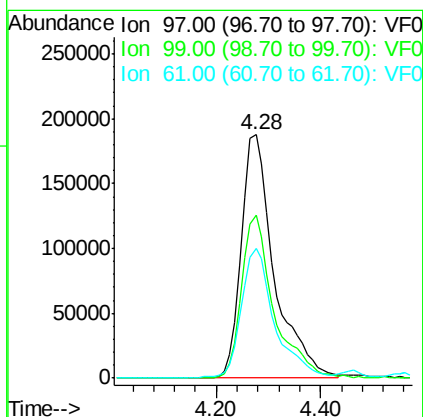
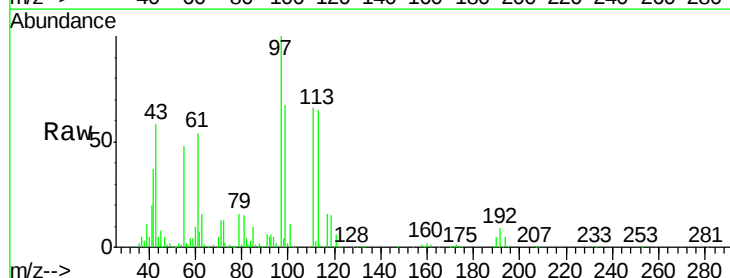
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC150

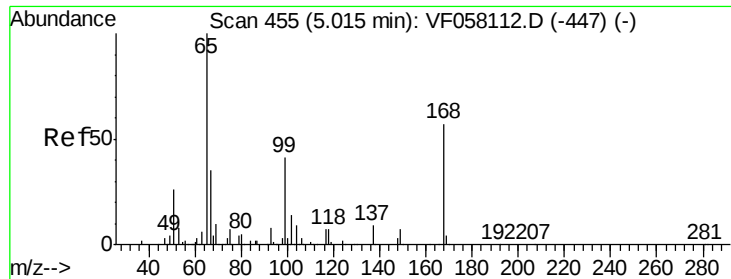
Tgt Ion: 56 Resp: 660609  
Ion Ratio Lower Upper  
56 100  
69 32.2 25.9 38.9  
84 87.6 70.3 105.5



#32  
1,1,1-Trichloroethane  
Concen: 143.45 ug/l  
RT: 4.28 min Scan# 380  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

Tgt Ion: 97 Resp: 802867  
Ion Ratio Lower Upper  
97 100  
99 66.8 52.0 78.0  
61 53.5 44.3 66.5

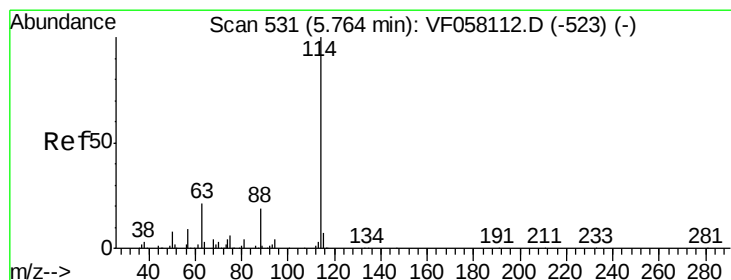
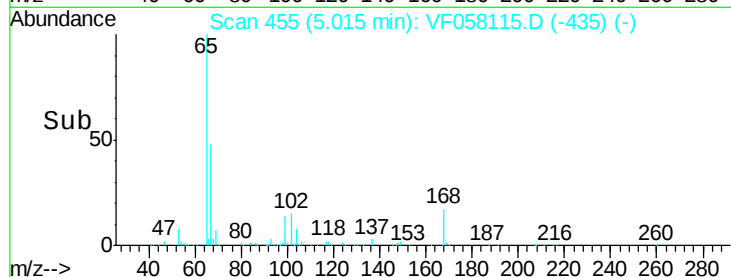
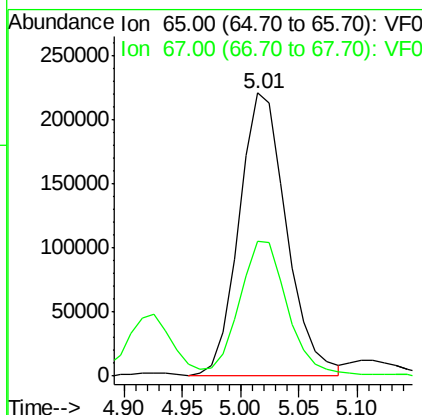
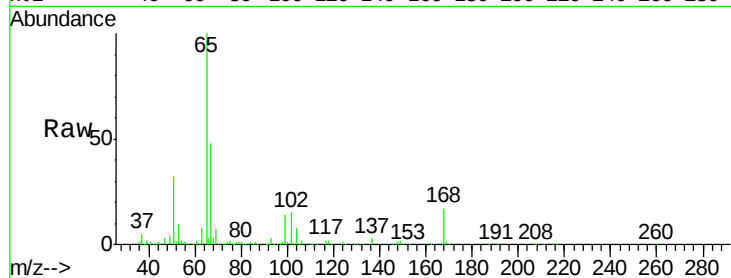




#33  
 1,2-Dichloroethane-d4  
 Concen: 143.83 ug/l  
 RT: 5.01 min Scan# 455  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

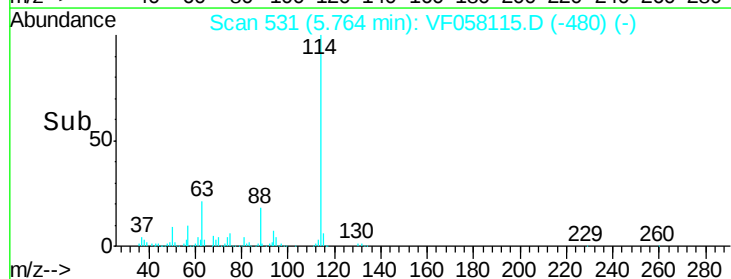
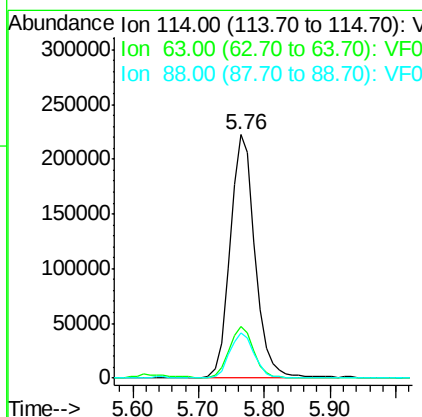
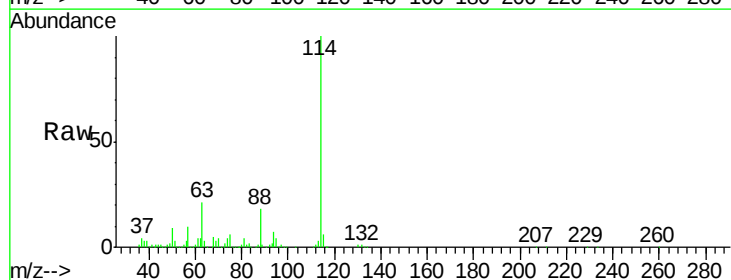
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC150

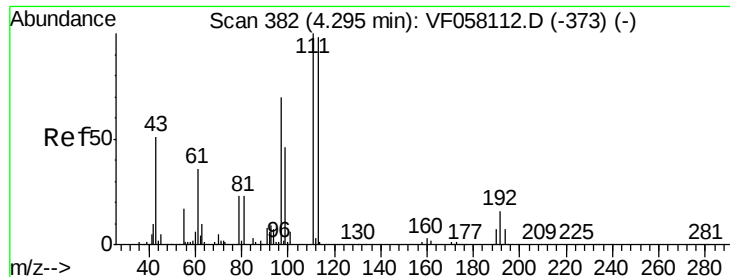
Tgt Ion: 65 Resp: 622977  
 Ion Ratio Lower Upper  
 65 100  
 67 47.7 0.0 97.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.76 min Scan# 531  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

Tgt Ion: 114 Resp: 591441  
 Ion Ratio Lower Upper  
 114 100  
 63 21.0 0.0 41.6  
 88 18.4 0.0 38.8





#35

Dibromofluoromethane

Concen: 130.44 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

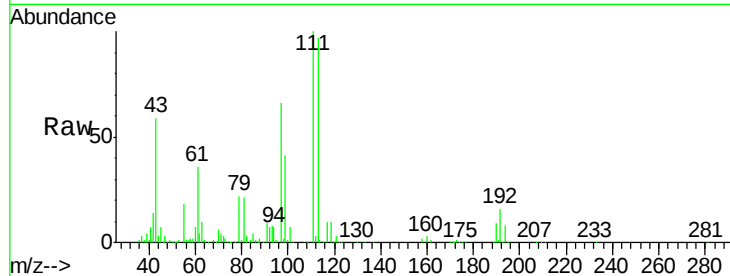
Tgt Ion: 113 Resp: 572198

Ion Ratio Lower Upper

113 100

111 103.2 81.3 121.9

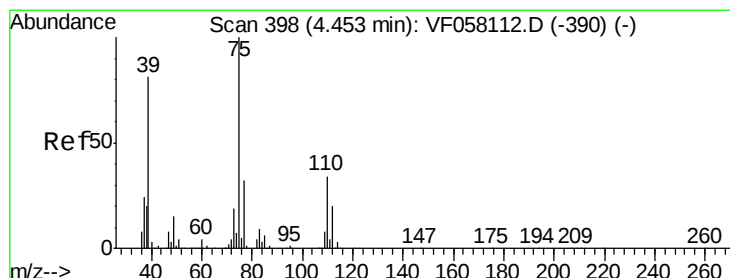
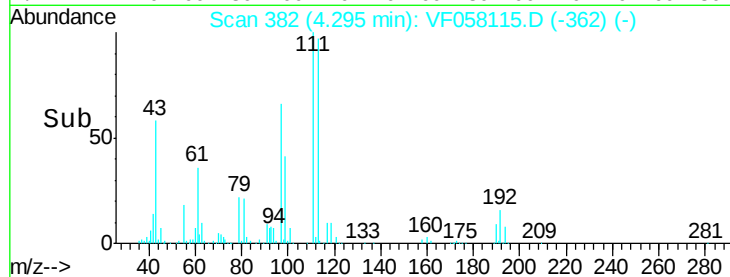
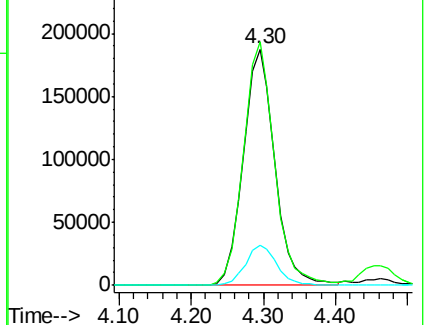
192 17.0 12.7 19.1



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 132.65 ug/l

RT: 4.46 min Scan# 399

Delta R.T. 0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

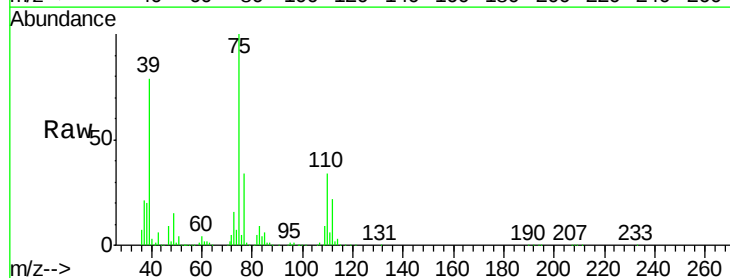
Tgt Ion: 75 Resp: 793490

Ion Ratio Lower Upper

75 100

110 33.8 17.0 50.9

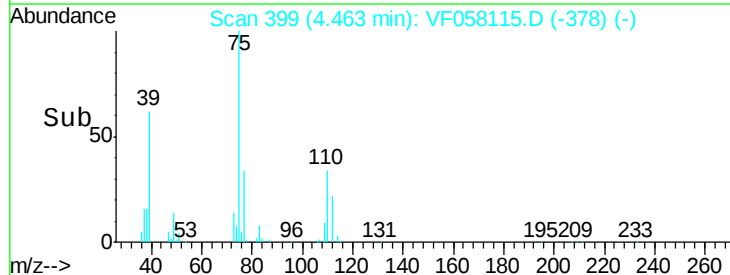
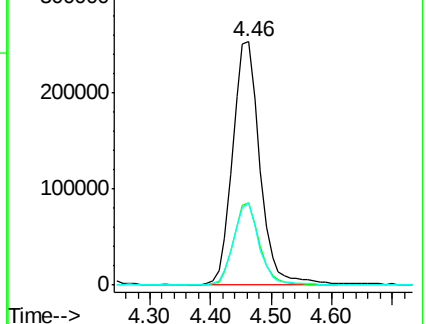
77 34.1 25.3 37.9

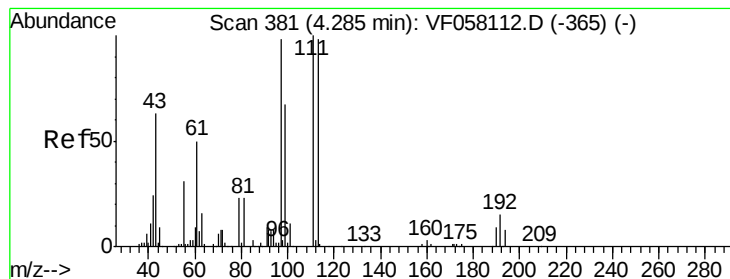


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 136.71 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

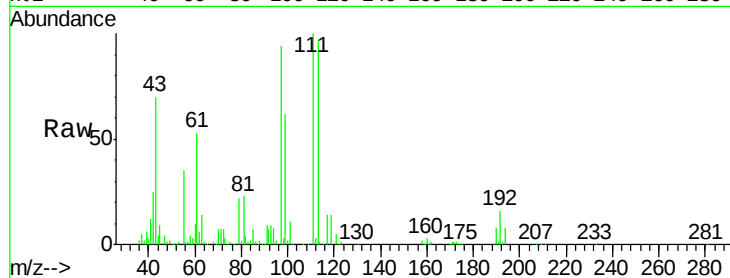
Tgt Ion: 43 Resp: 482197

Ion Ratio Lower Upper

43 100

61 75.5 63.0 94.4

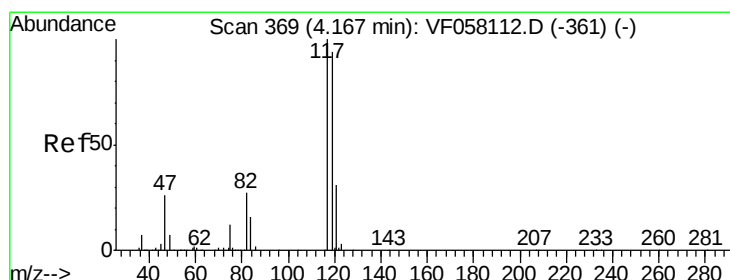
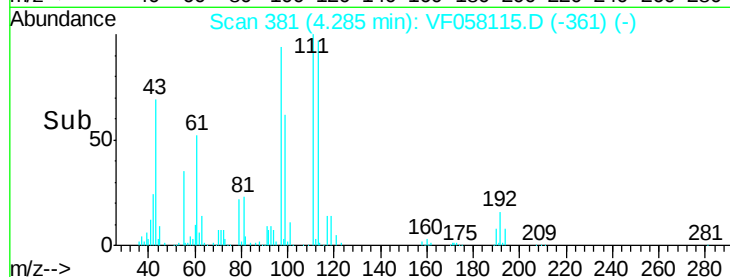
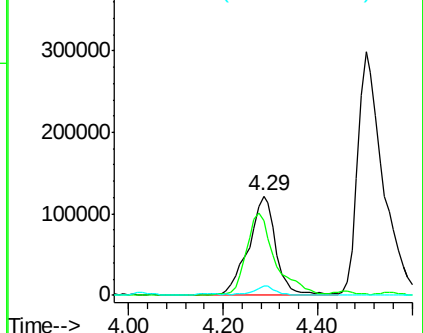
70 9.9 7.5 11.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 150.80 ug/l

RT: 4.17 min Scan# 369

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

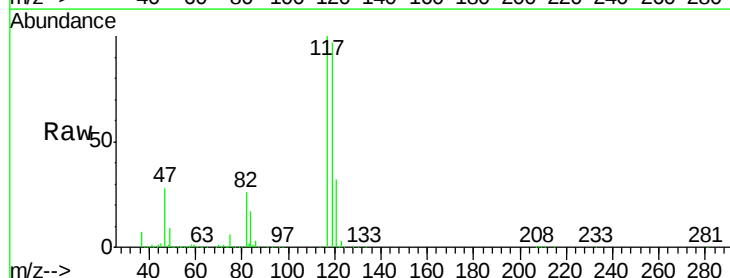
Tgt Ion: 117 Resp: 958351

Ion Ratio Lower Upper

117 100

119 97.2 75.7 113.5

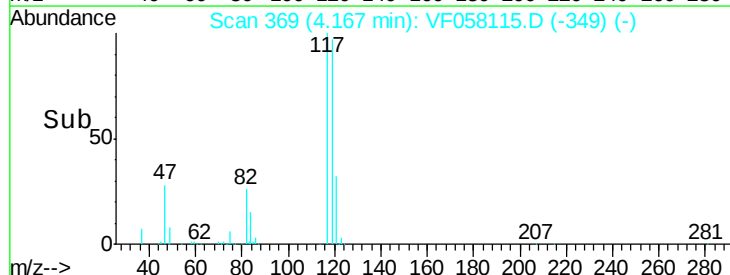
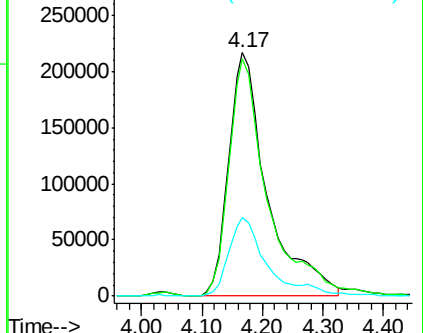
121 32.1 24.8 37.2

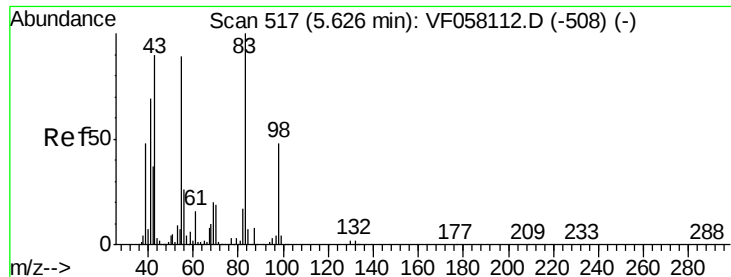


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

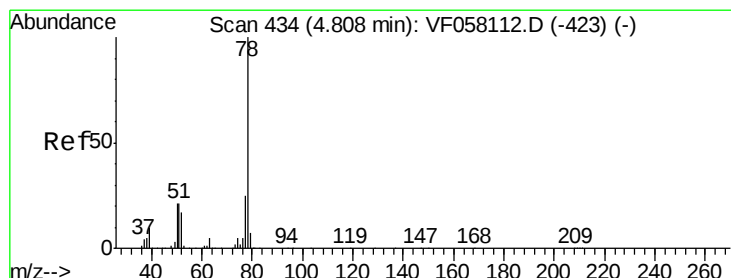
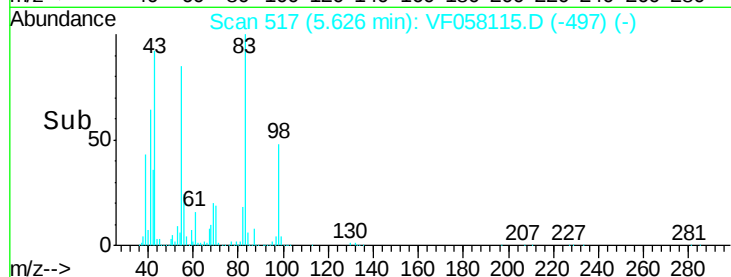
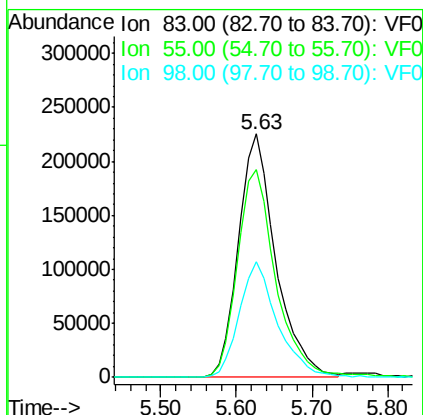
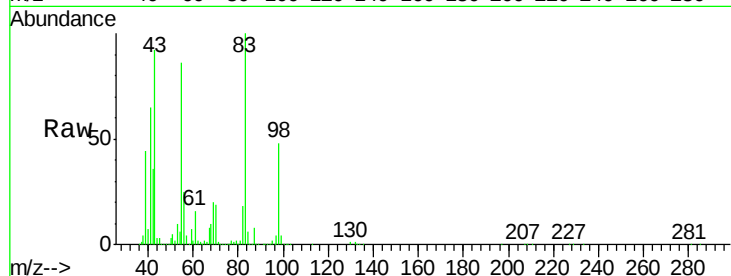




#39  
Methylcyclohexane  
Concen: 125.07 ug/l  
RT: 5.63 min Scan# 517  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

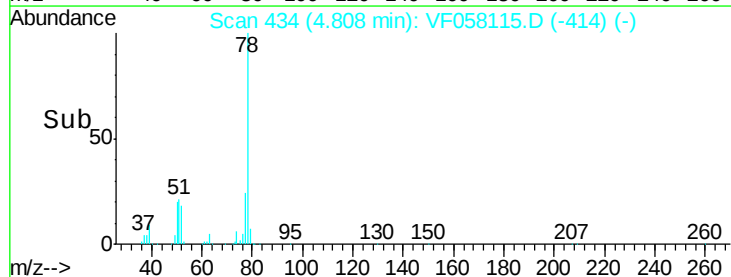
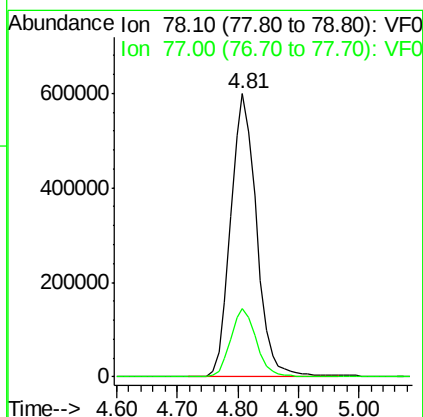
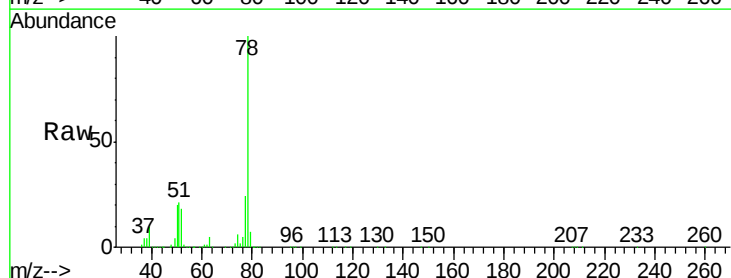
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC150

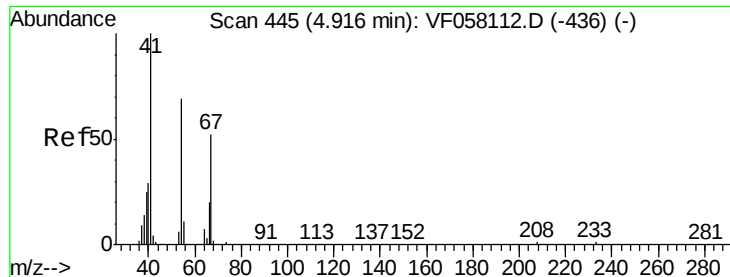
Tgt Ion: 83 Resp: 773054  
Ion Ratio Lower Upper  
83 100  
55 85.6 71.0 106.4  
98 47.6 38.1 57.1



#40  
Benzene  
Concen: 127.26 ug/l  
RT: 4.81 min Scan# 434  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

Tgt Ion: 78 Resp: 1782300  
Ion Ratio Lower Upper  
78 100  
77 24.2 20.2 30.2





#41

Methacrylonitrile

Concen: 141.07 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

Tgt Ion: 41 Resp: 251984

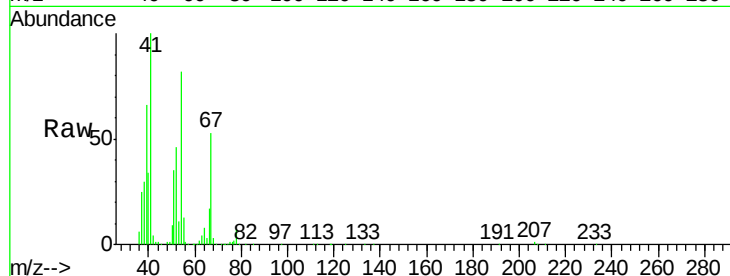
Ion Ratio Lower Upper

41 100

39 65.8 53.0 79.4

67 53.0 41.0 61.6

52 46.0 36.8 55.2

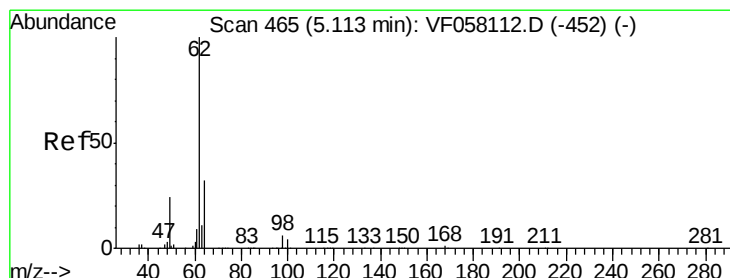
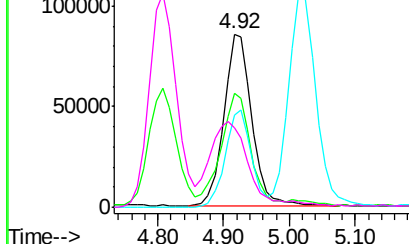
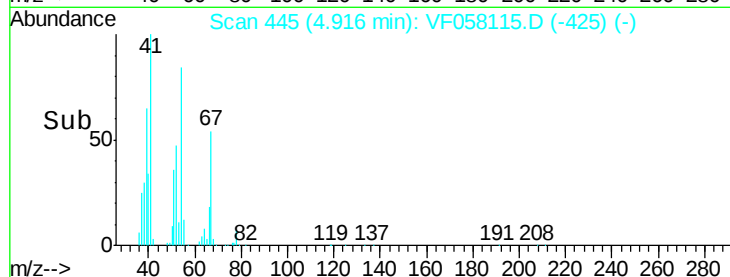


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 139.30 ug/l

RT: 5.11 min Scan# 465

Delta R.T. -0.00 min

Lab File: VF058115.D

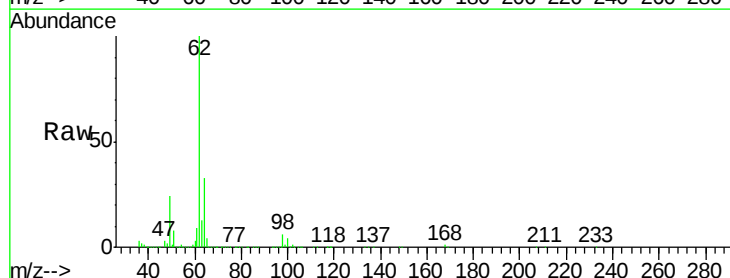
Acq: 6 Jun 2018 19:05

Tgt Ion: 62 Resp: 837743

Ion Ratio Lower Upper

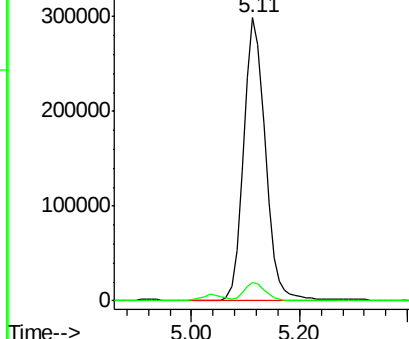
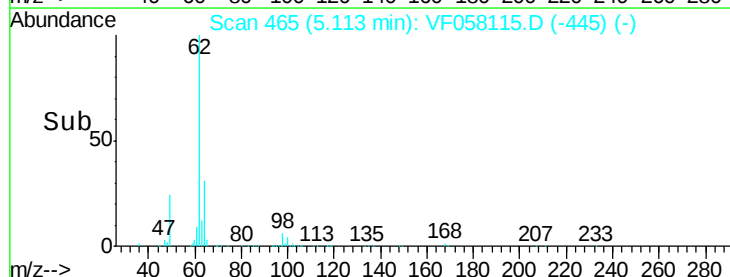
62 100

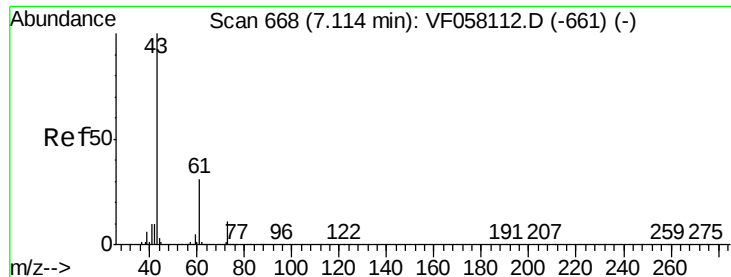
98 6.3 0.0 11.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 147.06 ug/l

RT: 7.10 min Scan# 667

Delta R.T. -0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

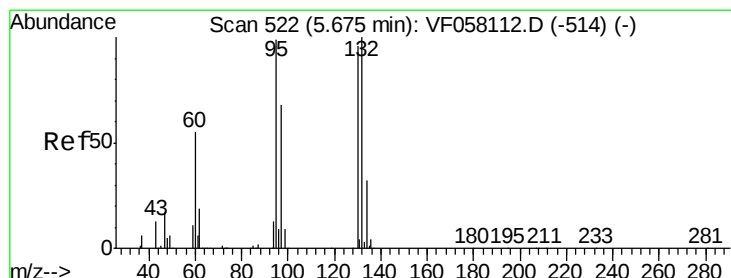
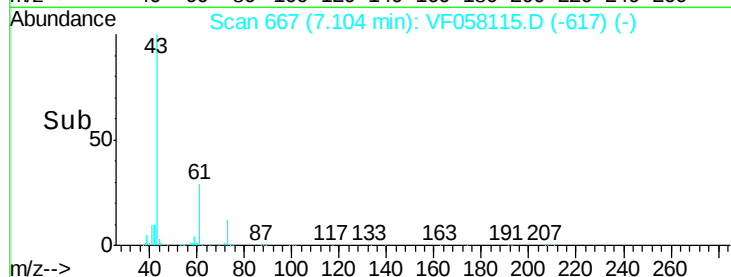
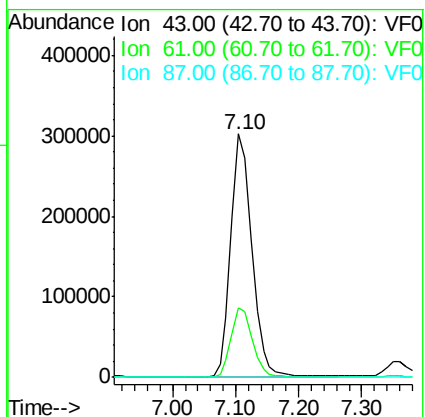
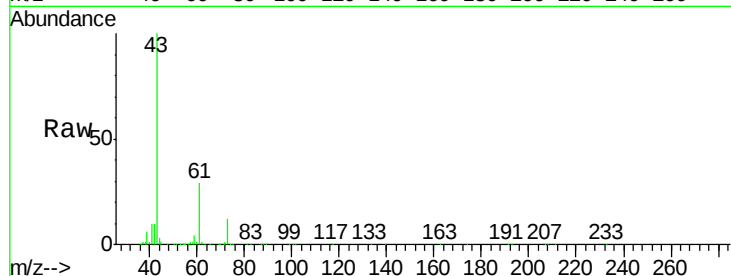
Tgt Ion: 43 Resp: 703249

Ion Ratio Lower Upper

43 100

61 28.6 25.1 37.7

87 0.3 0.2 0.4



#44

Trichloroethene

Concen: 128.12 ug/l

RT: 5.68 min Scan# 522

Delta R.T. -0.00 min

Lab File: VF058115.D

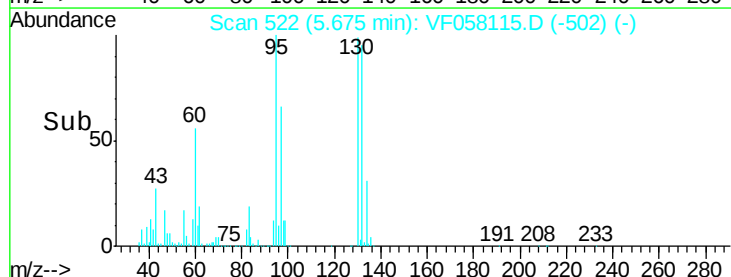
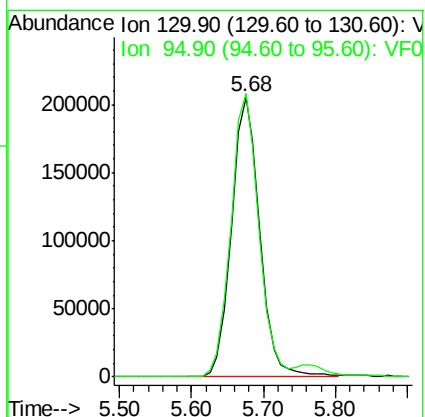
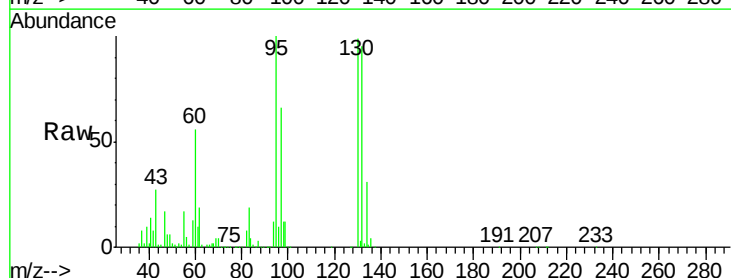
Acq: 6 Jun 2018 19:05

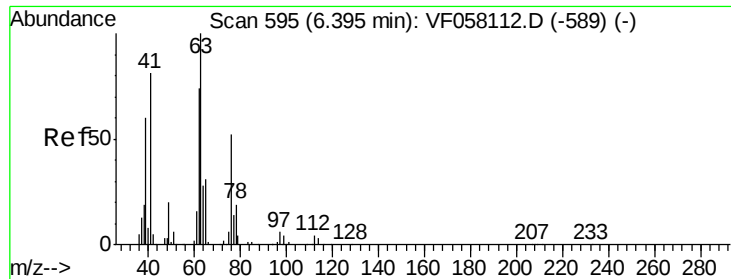
Tgt Ion: 130 Resp: 558844

Ion Ratio Lower Upper

130 100

95 101.0 0.0 206.8





#45

1,2-Dichloropropane

Concen: 126.67 ug/l

RT: 6.40 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

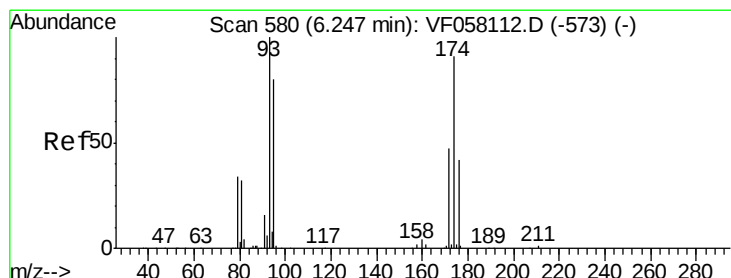
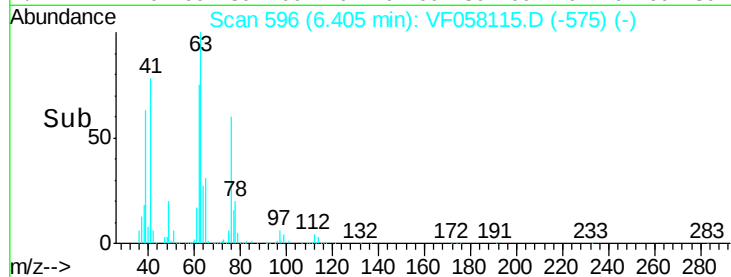
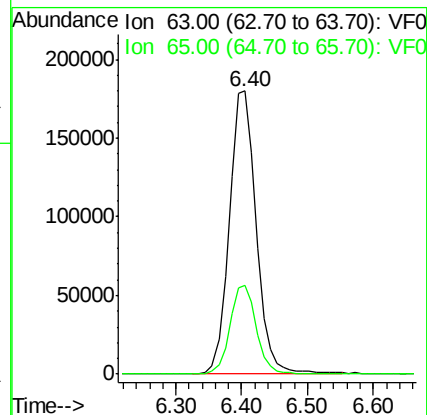
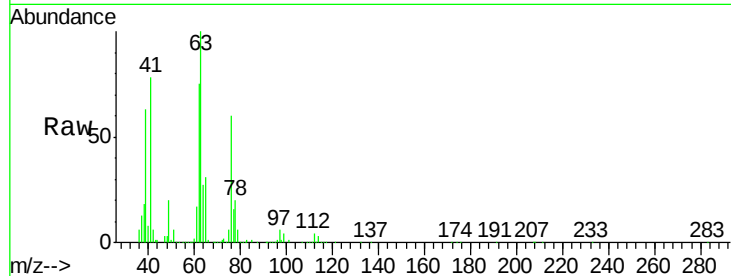
VSTDIC150

Tgt Ion: 63 Resp: 515726

Ion Ratio Lower Upper

63 100

65 31.2 24.6 37.0



#46

Dibromomethane

Concen: 132.78 ug/l

RT: 6.26 min Scan# 581

Delta R.T. 0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

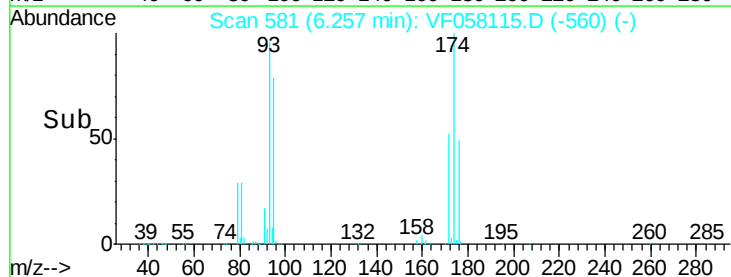
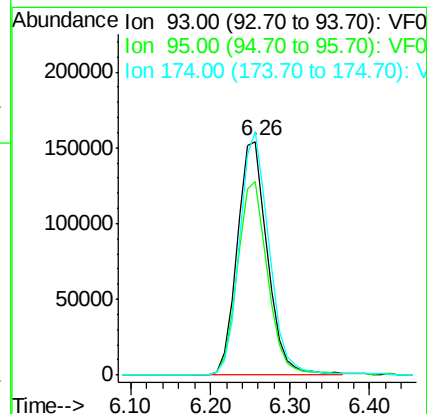
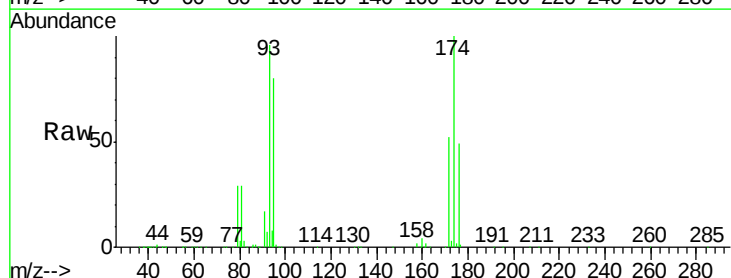
Tgt Ion: 93 Resp: 408079

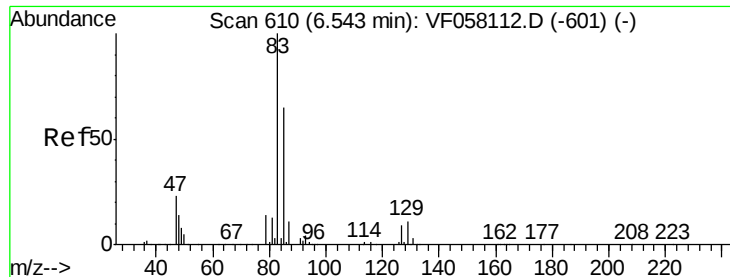
Ion Ratio Lower Upper

93 100

95 82.8 64.2 96.4

174 104.1 72.7 109.1





#47

Bromodichloromethane

Concen: 128.92 ug/l

RT: 6.54 min Scan# 610

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

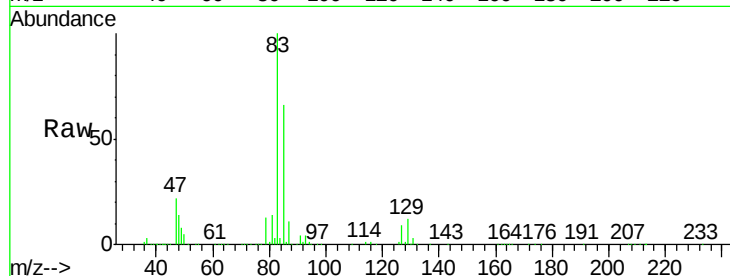
Tgt Ion: 83 Resp: 874203

Ion Ratio Lower Upper

83 100

85 65.9 51.6 77.4

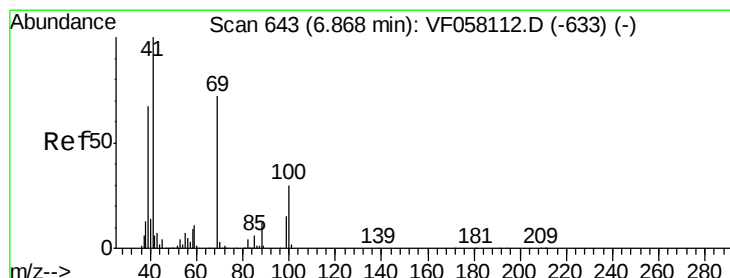
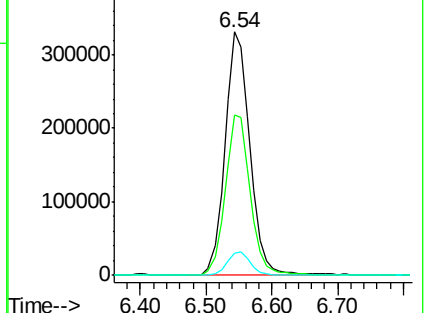
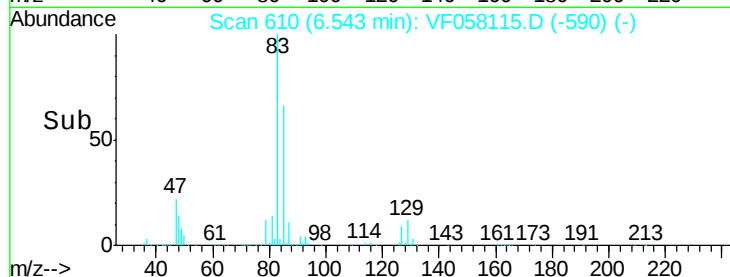
127 9.2 7.2 10.8



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: 144.57 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

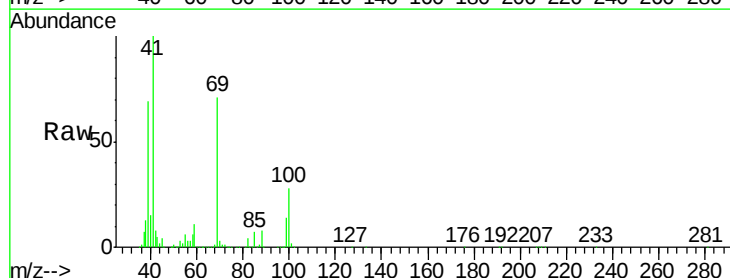
Tgt Ion: 41 Resp: 436991

Ion Ratio Lower Upper

41 100

69 71.5 57.2 85.8

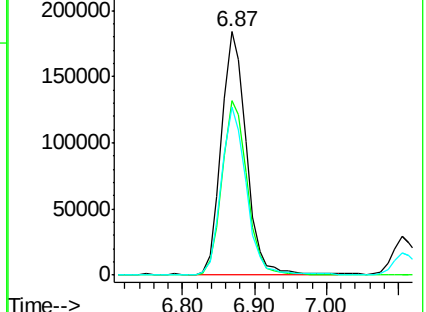
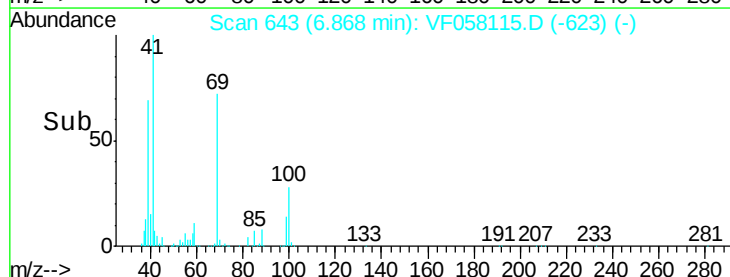
39 69.1 54.3 81.5

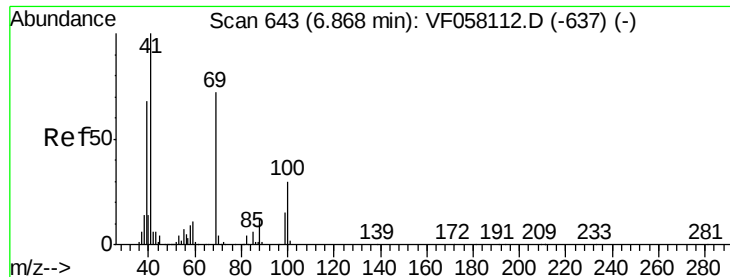


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 2298.06 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

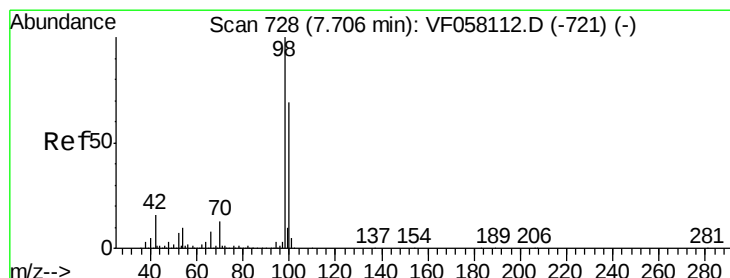
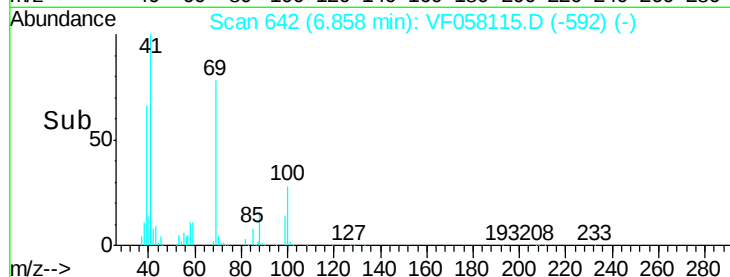
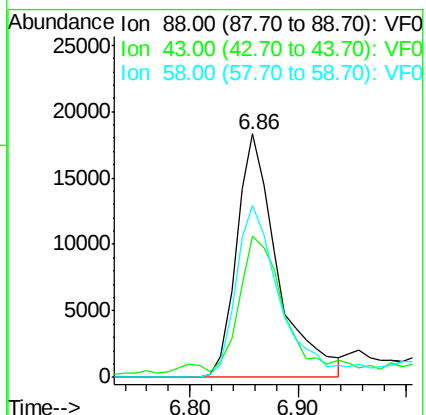
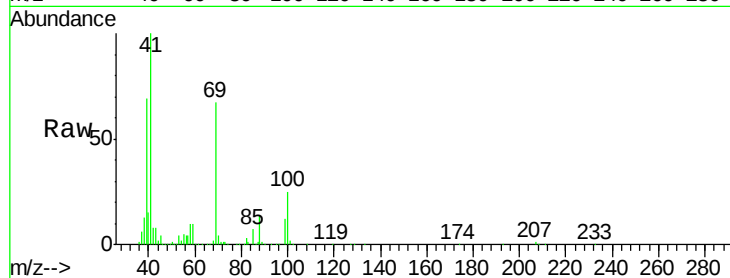
Tgt Ion: 88 Resp: 47931

Ion Ratio Lower Upper

88 100

43 57.9 47.8 71.8

58 70.6 59.4 89.0



#50

Toluene-d8

Concen: 126.44 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.00 min

Lab File: VF058115.D

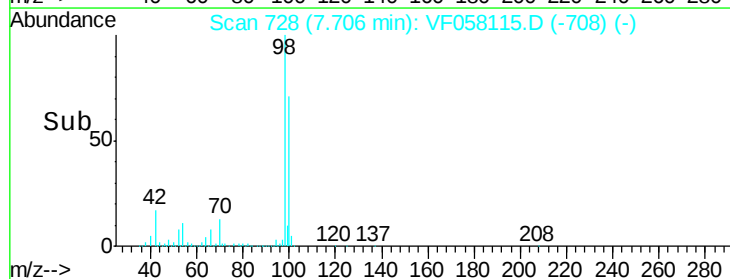
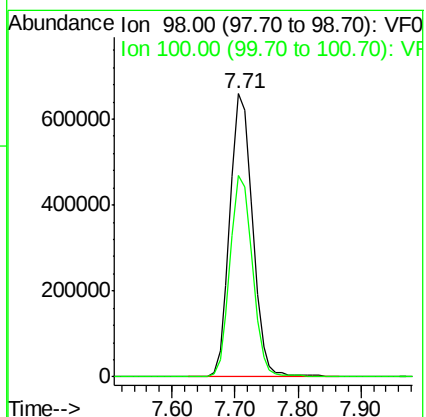
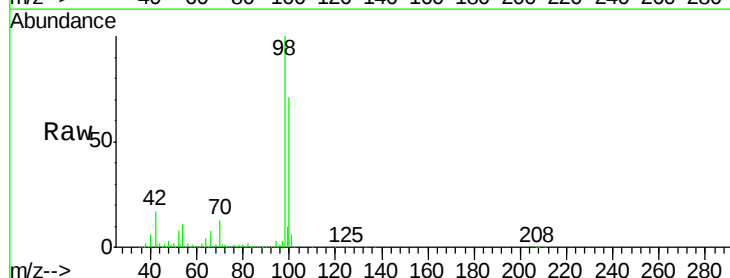
Acq: 6 Jun 2018 19:05

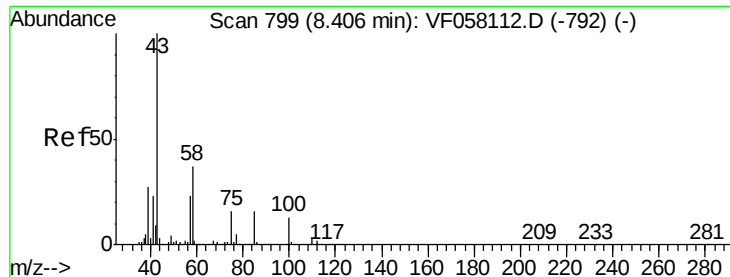
Tgt Ion: 98 Resp: 1643746

Ion Ratio Lower Upper

98 100

100 71.4 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 611.68 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

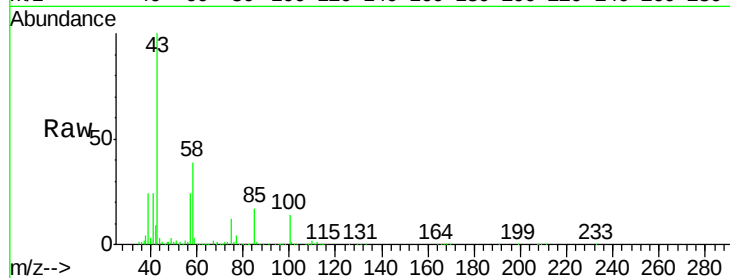
VSTDIC150

Tgt Ion: 43 Resp: 2030506

Ion Ratio Lower Upper

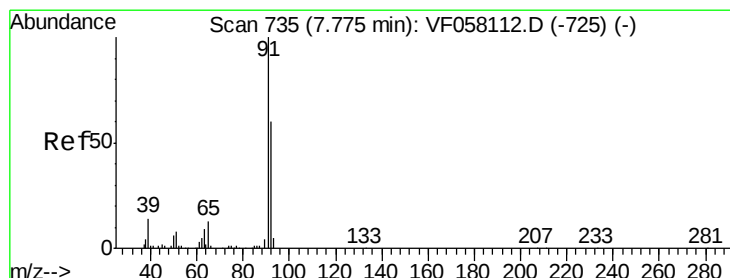
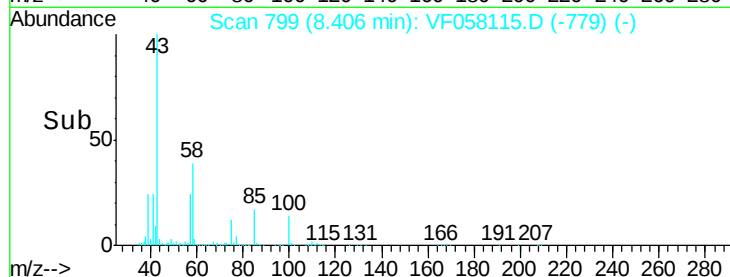
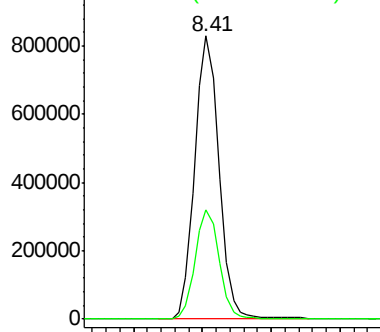
43 100

58 38.7 29.4 44.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 125.74 ug/l

RT: 7.78 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF058115.D

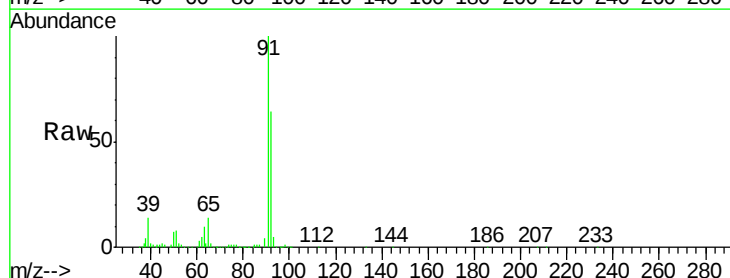
Acq: 6 Jun 2018 19:05

Tgt Ion: 92 Resp: 1250363

Ion Ratio Lower Upper

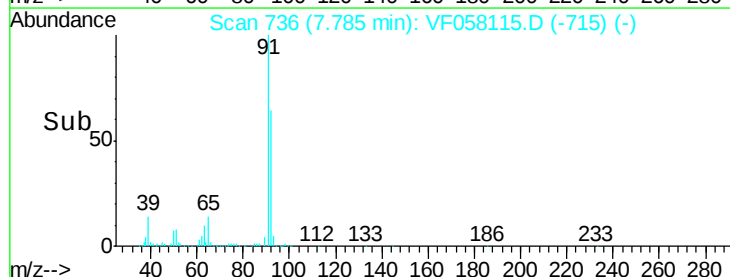
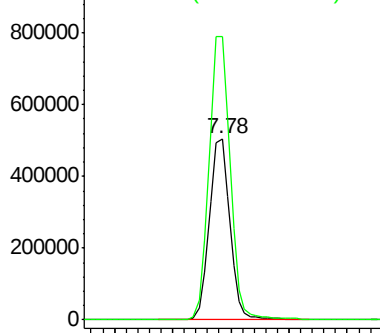
92 100

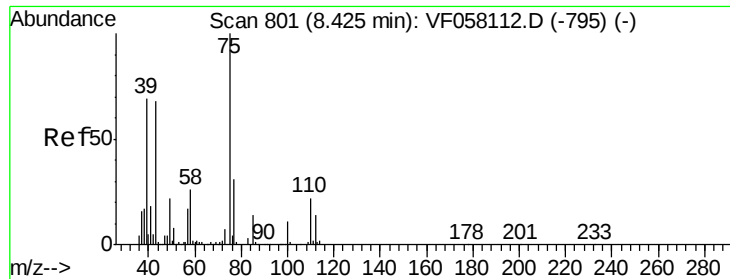
91 156.0 132.9 199.3



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 131.74 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

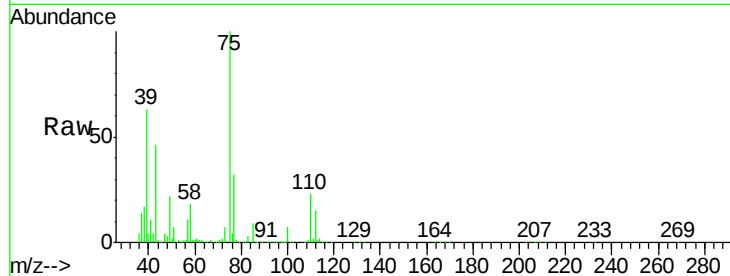
VSTDIC150

Tgt Ion: 75 Resp: 853476

Ion Ratio Lower Upper

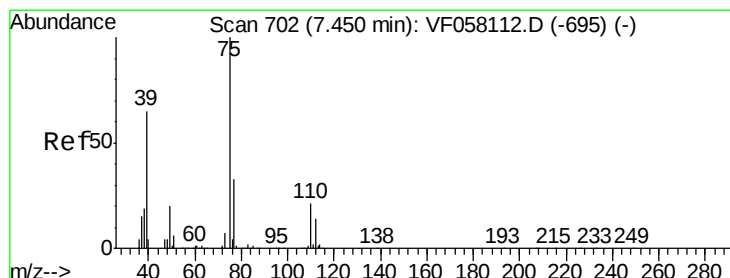
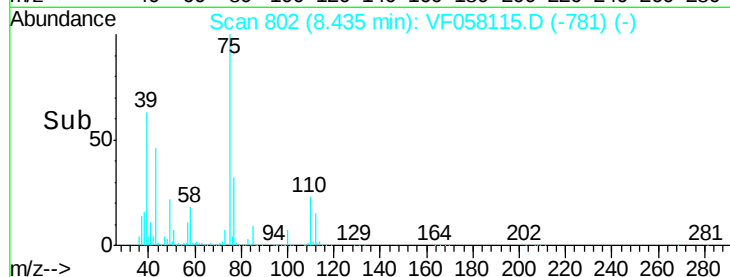
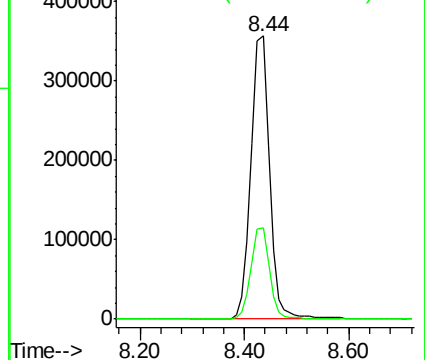
75 100

77 32.2 25.1 37.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 134.44 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

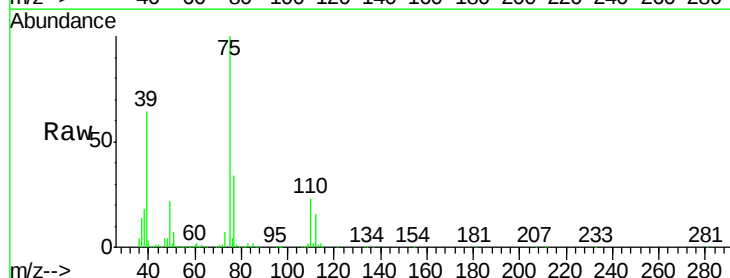
Tgt Ion: 75 Resp: 1000603

Ion Ratio Lower Upper

75 100

77 33.8 26.3 39.5

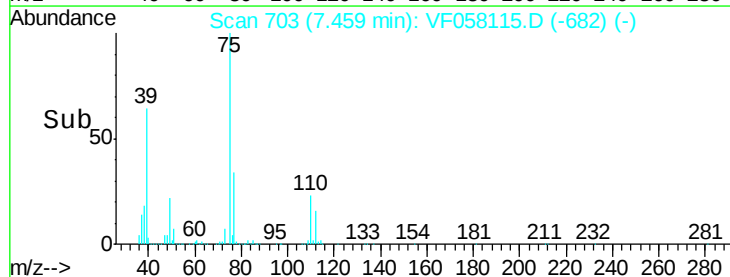
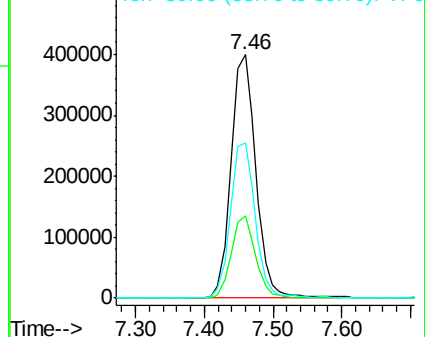
39 63.5 52.1 78.1

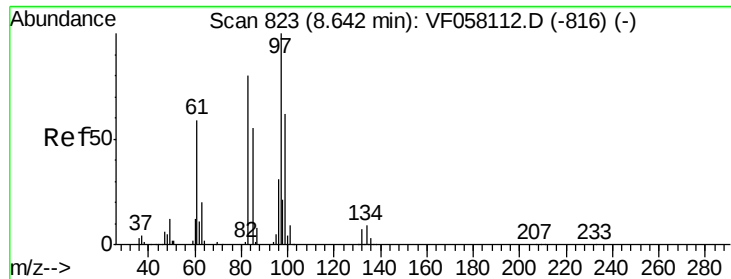


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 132.34 ug/l

RT: 8.64 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 478453

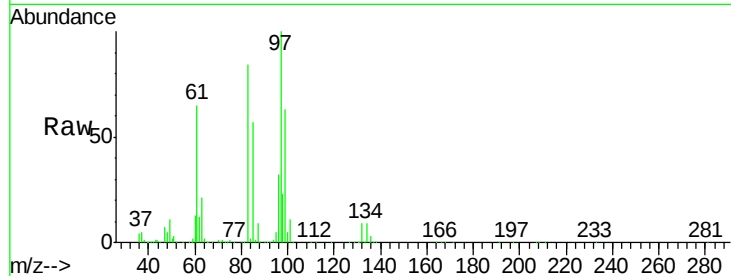
Ion Ratio Lower Upper

97 100

83 83.8 64.3 96.5

85 56.9 43.8 65.8

99 63.2 49.8 74.8

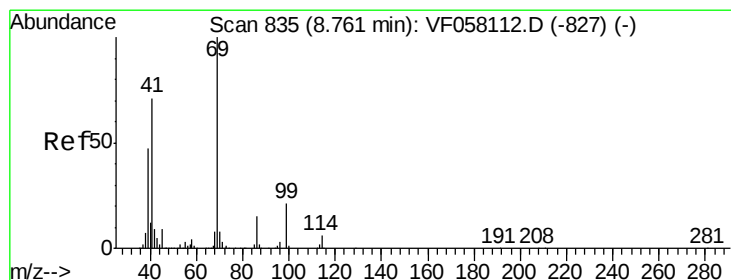
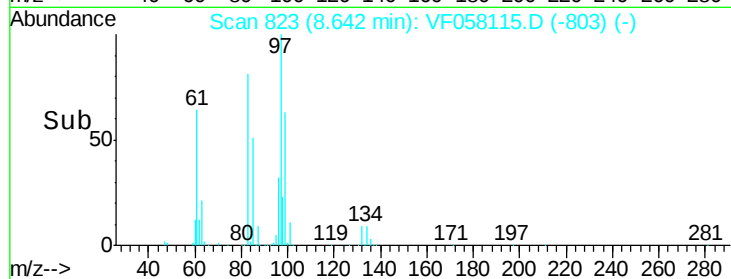
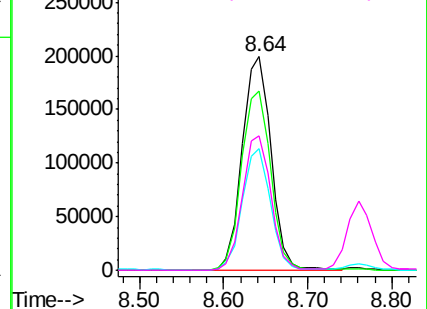


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 139.49 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

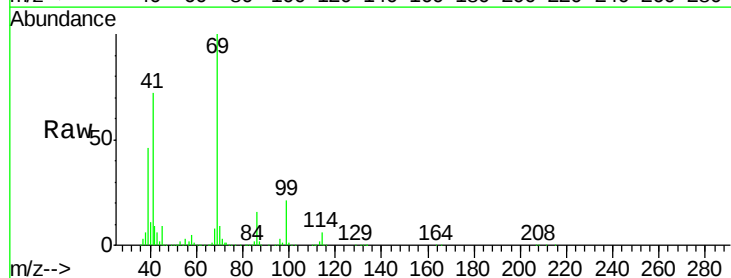
Tgt Ion: 69 Resp: 637776

Ion Ratio Lower Upper

69 100

41 72.3 56.9 85.3

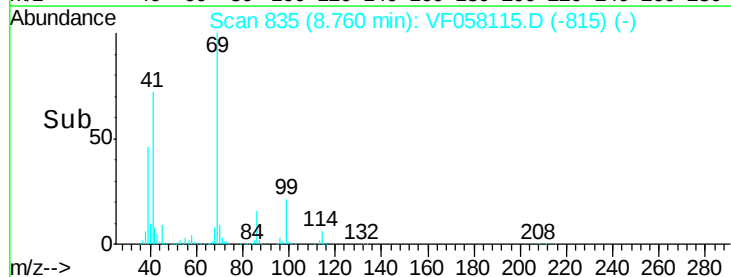
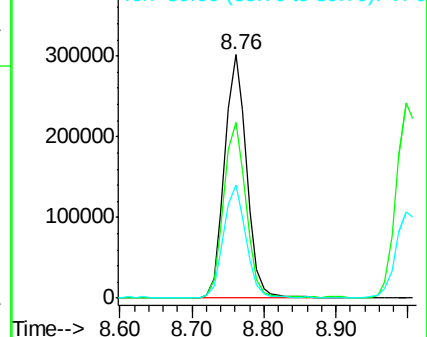
39 46.4 38.0 57.0

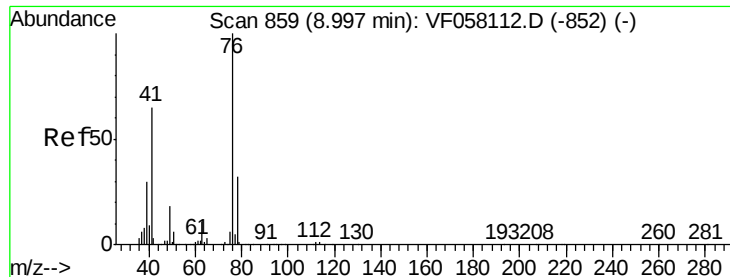


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

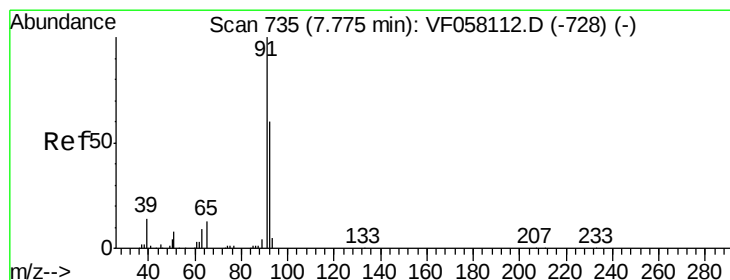
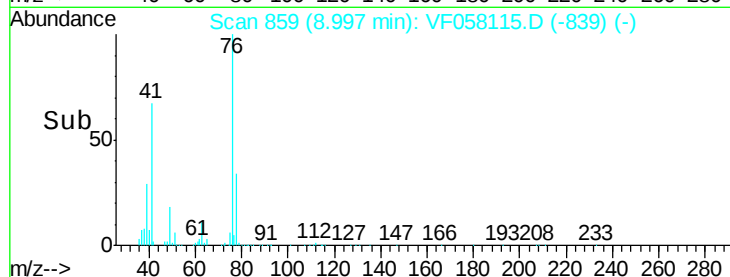
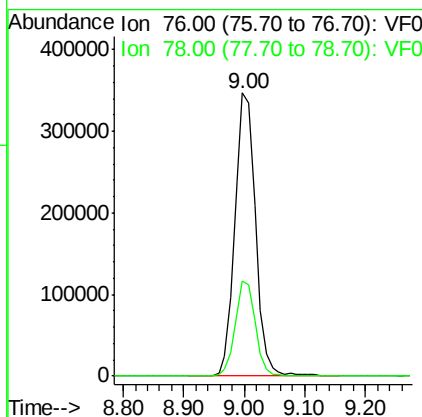
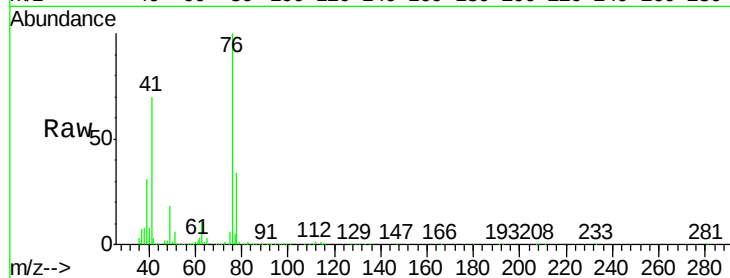




#57  
 1,3-Dichloropropane  
 Concen: 131.27 ug/l  
 RT: 9.00 min Scan# 859  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

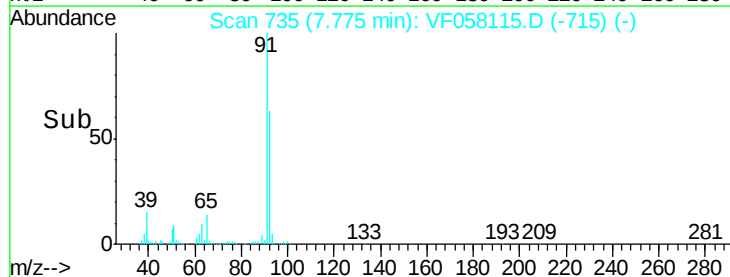
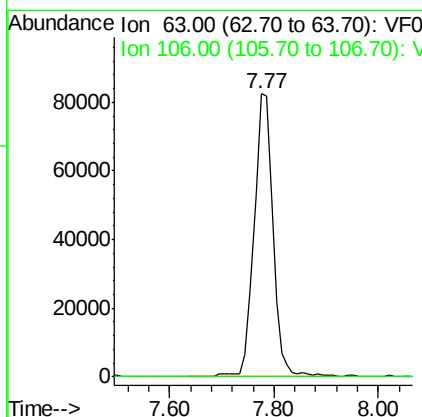
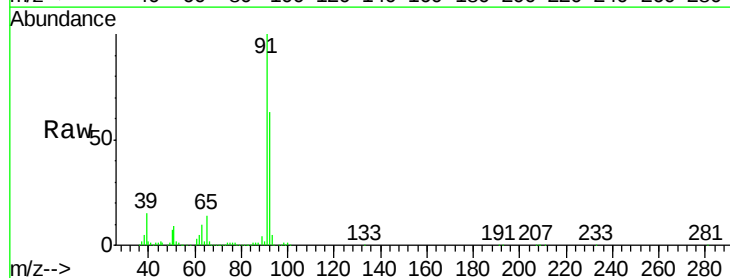
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC150

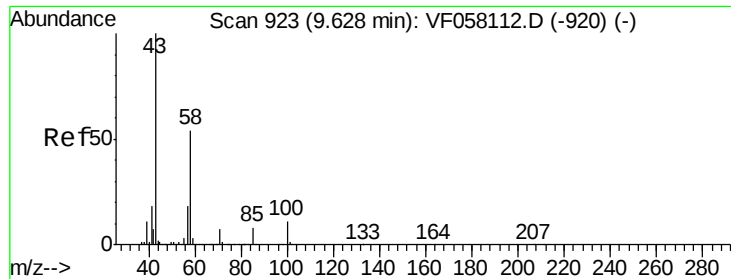
Tgt Ion: 76 Resp: 826243  
 Ion Ratio Lower Upper  
 76 100  
 78 33.7 25.8 38.6



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 645.78 ug/l  
 RT: 7.77 min Scan# 735  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

Tgt Ion: 63 Resp: 204123  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 0.0 0.0

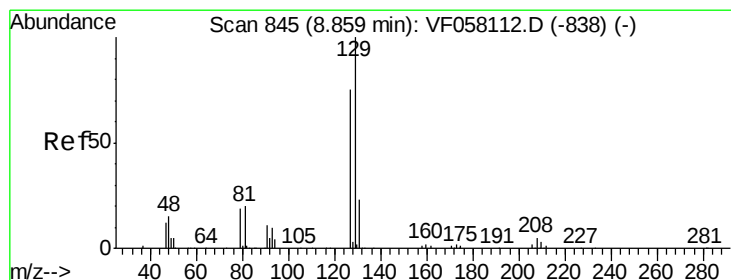
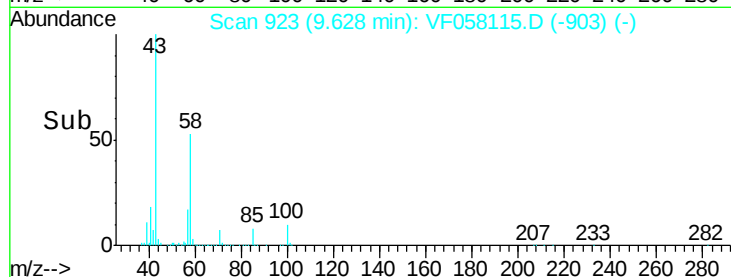
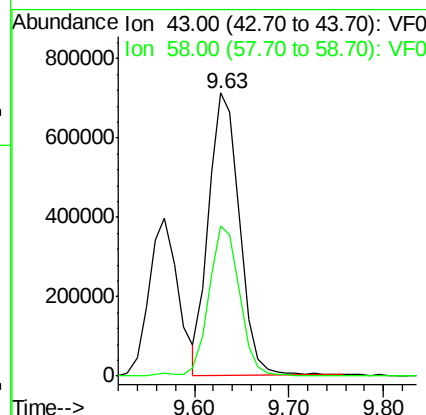
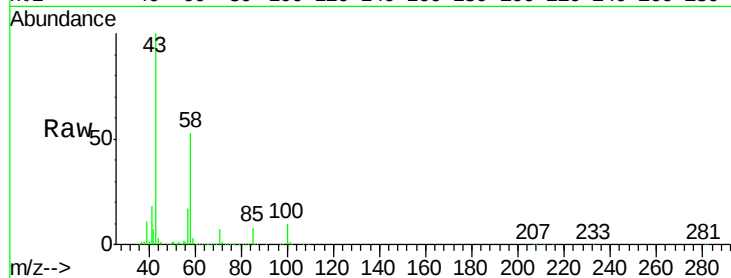




#59  
2-Hexanone  
Concen: 619.06 ug/l  
RT: 9.63 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

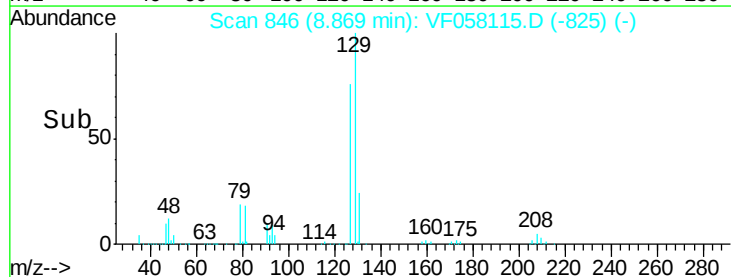
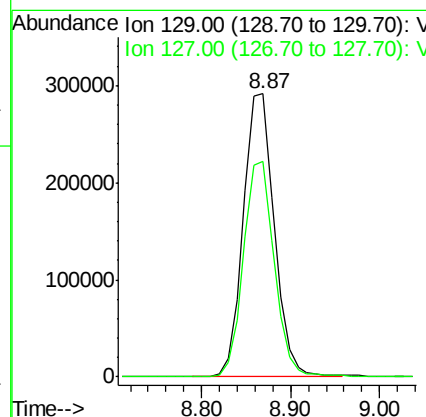
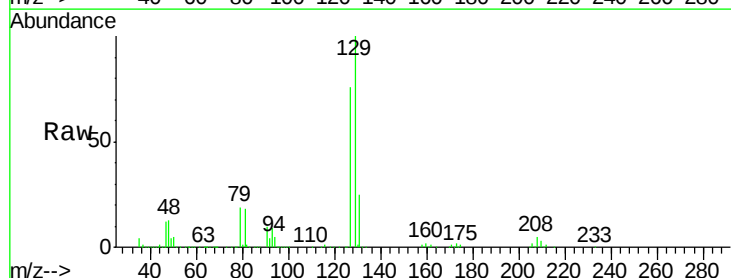
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC150

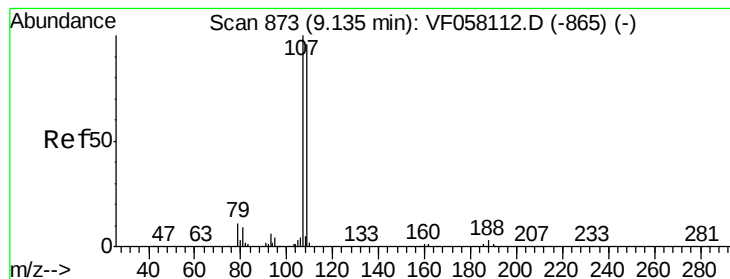
Tgt Ion: 43 Resp: 1609165  
Ion Ratio Lower Upper  
43 100  
58 53.2 26.3 78.8



#60  
Dibromochloromethane  
Concen: 136.78 ug/l  
RT: 8.87 min Scan# 846  
Delta R.T. 0.01 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

Tgt Ion: 129 Resp: 703142  
Ion Ratio Lower Upper  
129 100  
127 76.0 37.6 112.9





#61

1,2-Dibromoethane

Concen: 133.46 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

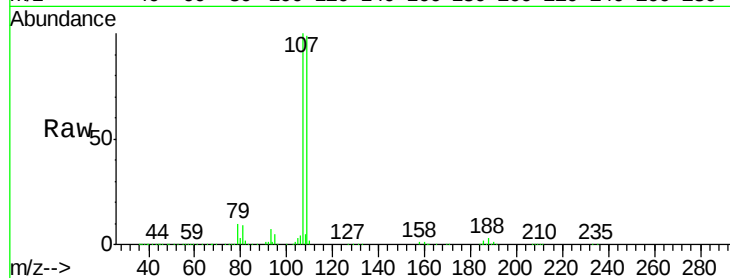
VSTDIC150

Tgt Ion: 107 Resp: 575641

Ion Ratio Lower Upper

107 100

109 98.5 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.14

250000

200000

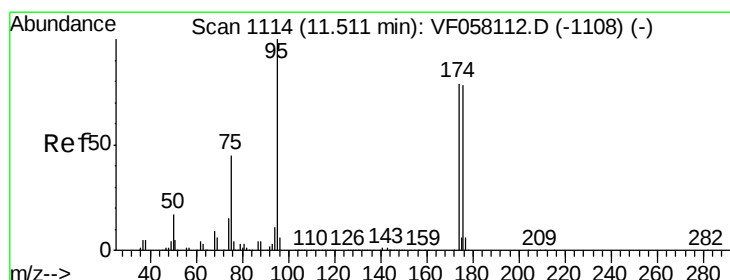
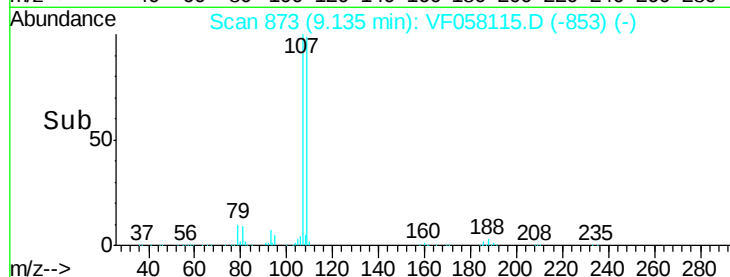
150000

100000

50000

0

Time--> 9.00 9.10 9.20 9.30



#62

4-Bromofluorobenzene

Concen: 122.05 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

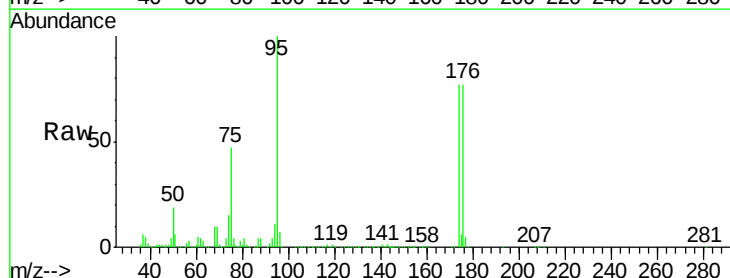
Tgt Ion: 95 Resp: 793878

Ion Ratio Lower Upper

95 100

174 76.8 0.0 157.8

176 76.9 0.0 155.8



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

11.51

600000

500000

400000

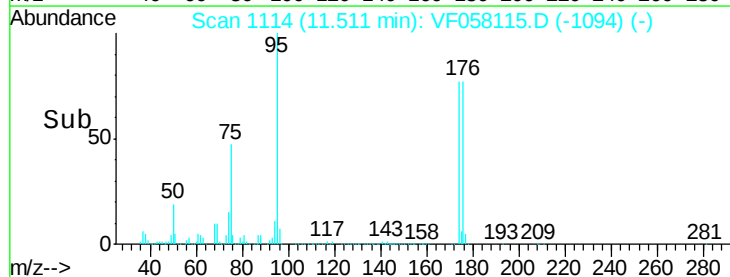
300000

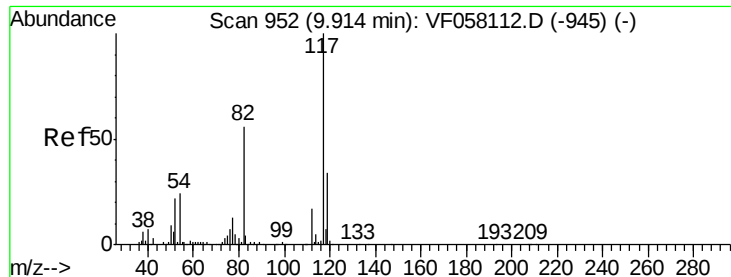
200000

100000

0

Time--> 11.40 11.50 11.60 11.70

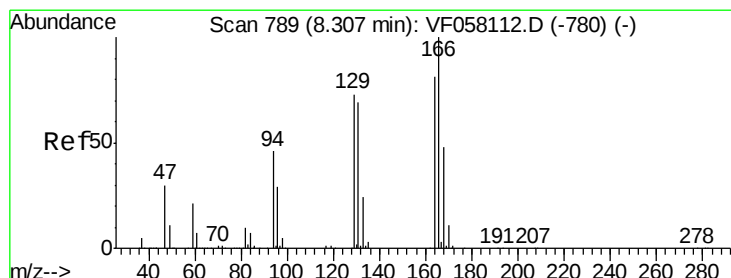
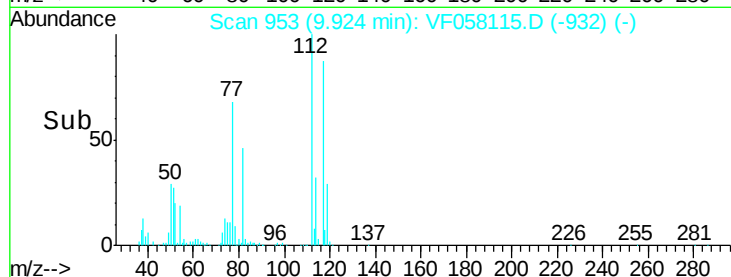
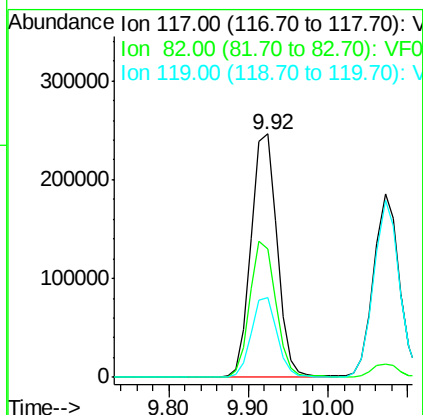
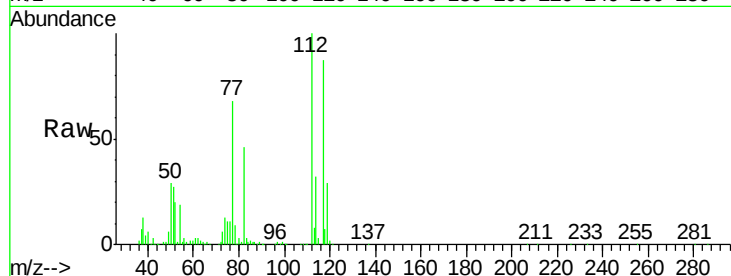




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.92 min Scan# 953  
Delta R.T. 0.01 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

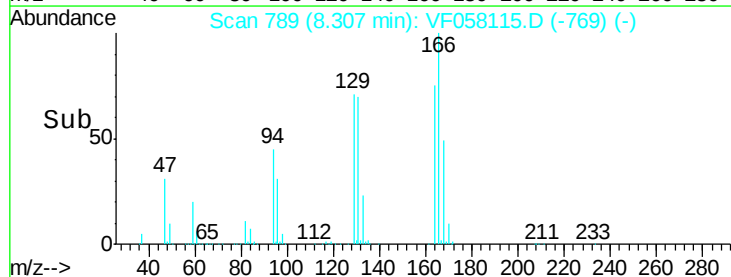
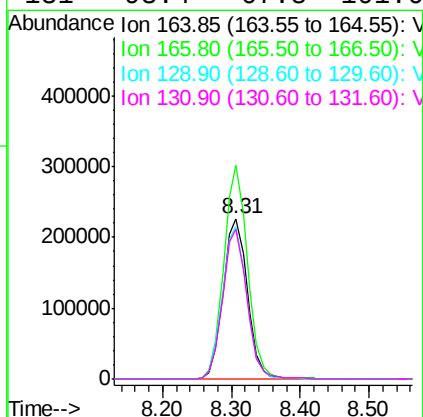
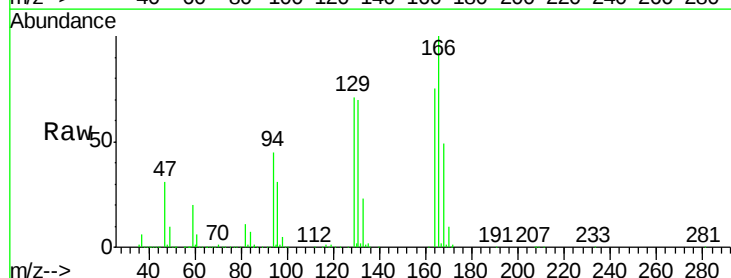
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC150

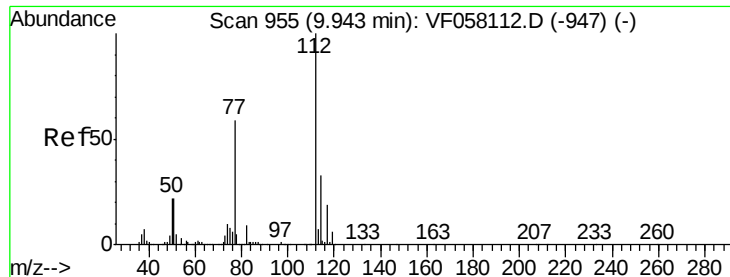
Tgt Ion:117 Resp: 553341  
Ion Ratio Lower Upper  
117 100  
82 52.5 45.2 67.8  
119 32.9 27.5 41.3



#64  
Tetrachloroethene  
Concen: 132.59 ug/l  
RT: 8.31 min Scan# 789  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

Tgt Ion:164 Resp: 553817  
Ion Ratio Lower Upper  
164 100  
166 133.1 98.2 147.4  
129 94.7 71.6 107.4  
131 93.4 67.8 101.6

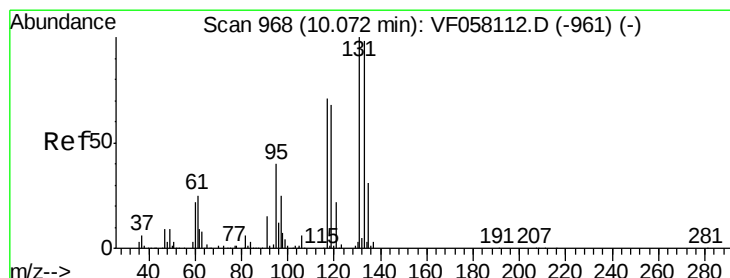
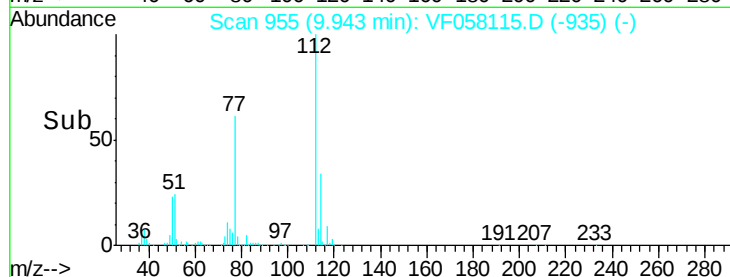
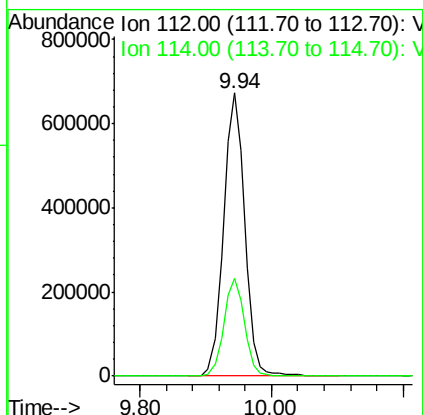
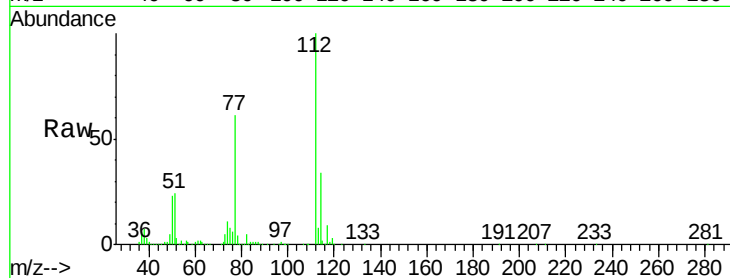




#65  
Chlorobenzene  
Concen: 135.24 ug/l  
RT: 9.94 min Scan# 955  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

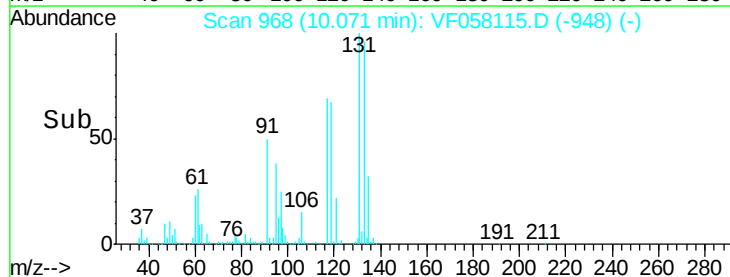
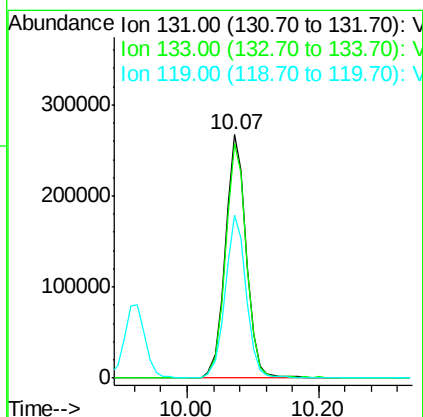
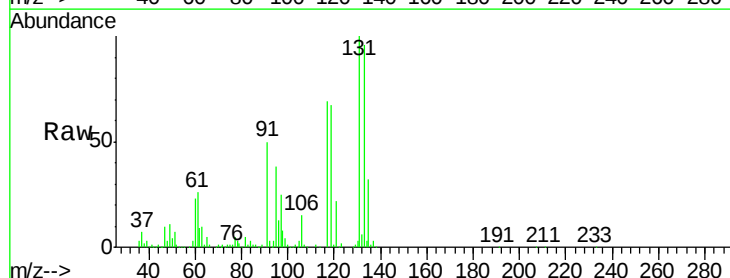
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC150

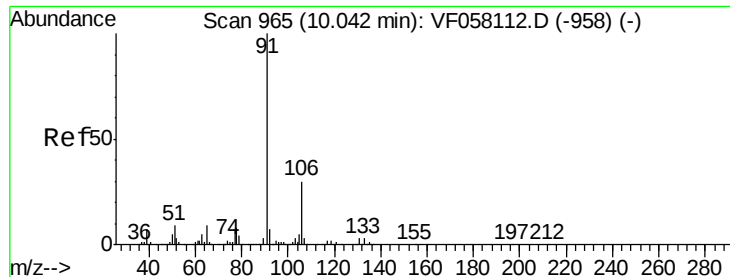
Tgt Ion:112 Resp: 1516265  
Ion Ratio Lower Upper  
112 100  
114 34.4 26.2 39.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 135.41 ug/l  
RT: 10.07 min Scan# 968  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

Tgt Ion:131 Resp: 593439  
Ion Ratio Lower Upper  
131 100  
133 96.3 49.1 147.4  
119 67.0 34.3 102.8





#67

Ethyl Benzene

Concen: 122.69 ug/l

RT: 10.04 min Scan# 965

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

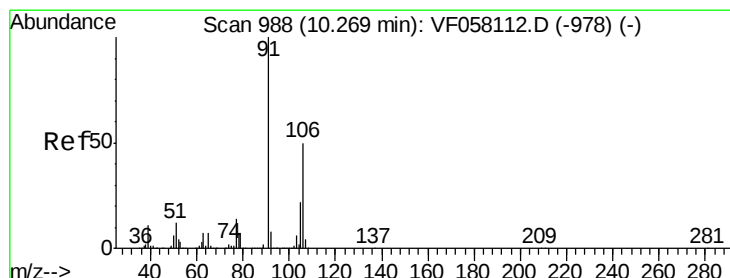
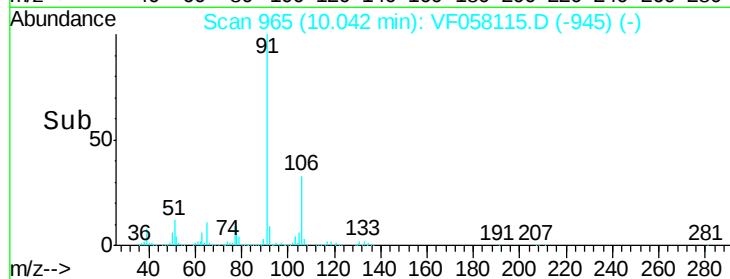
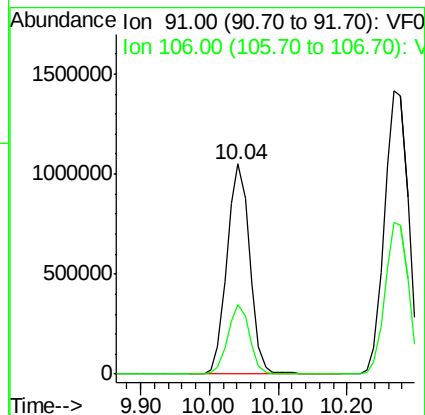
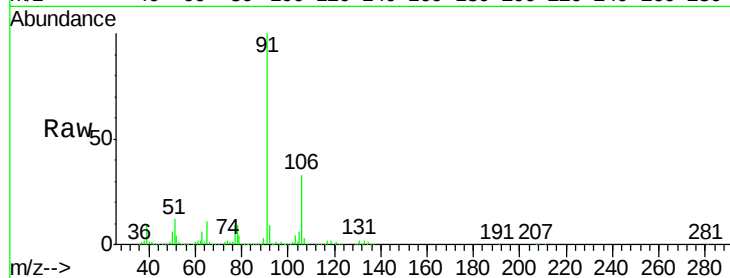
VSTDIC150

Tgt Ion: 91 Resp: 2417681

Ion Ratio Lower Upper

91 100

106 33.0 24.2 36.4



#68

m/p-Xylenes

Concen: 247.21 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF058115.D

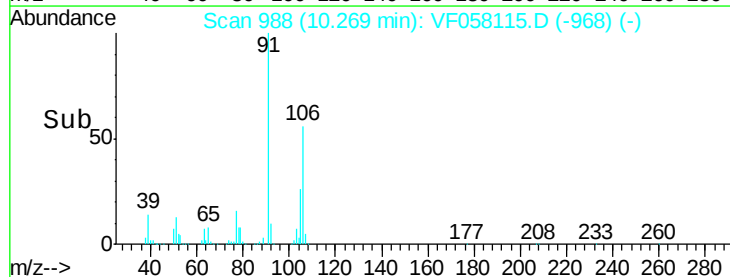
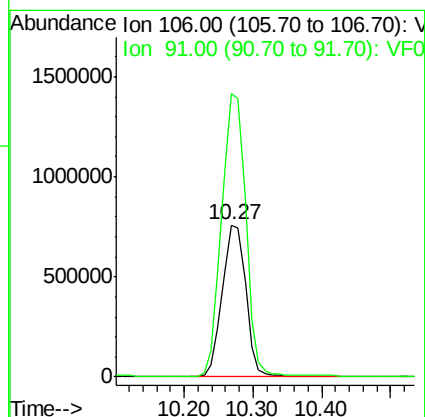
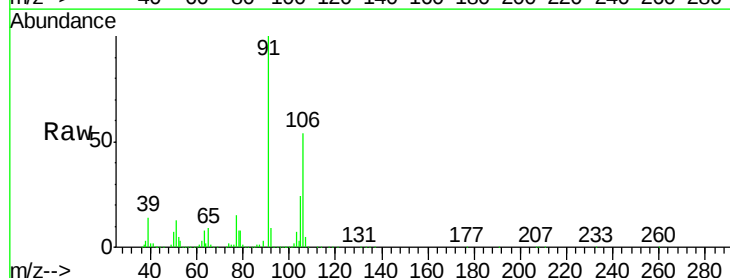
Acq: 6 Jun 2018 19:05

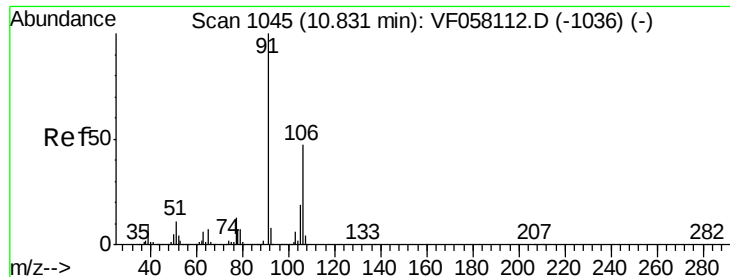
Tgt Ion: 106 Resp: 1806008

Ion Ratio Lower Upper

106 100

91 186.0 160.7 241.1

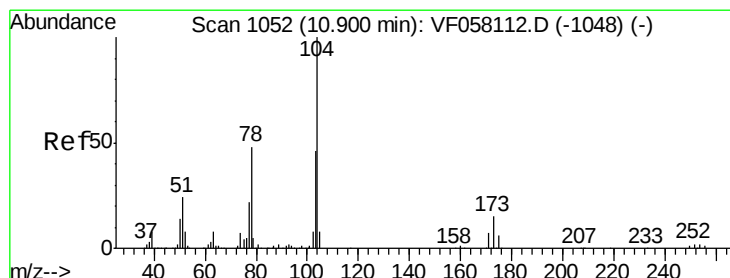
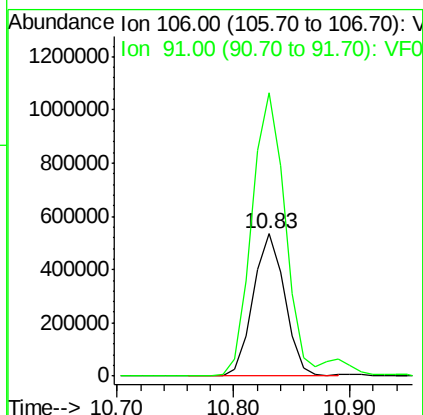
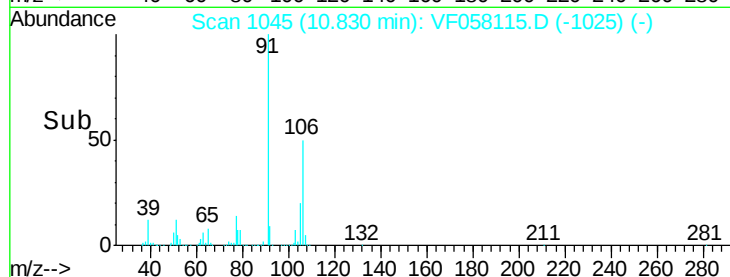
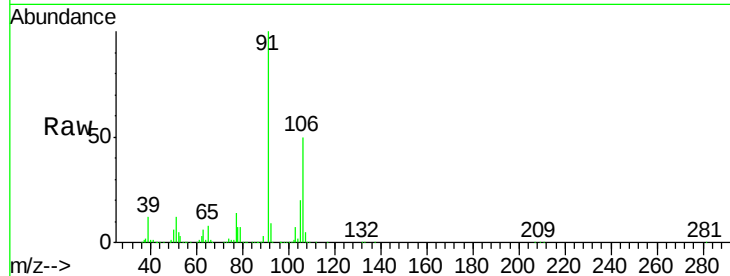




#69  
o-Xylene  
Concen: 126.59 ug/l  
RT: 10.83 min Scan# 1045  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

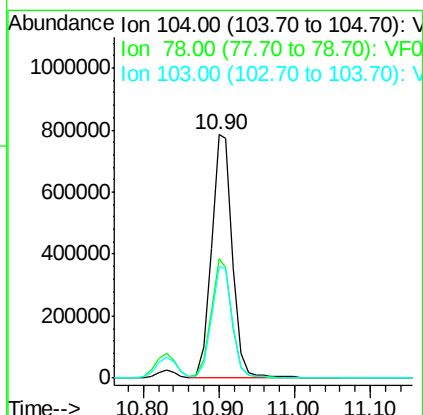
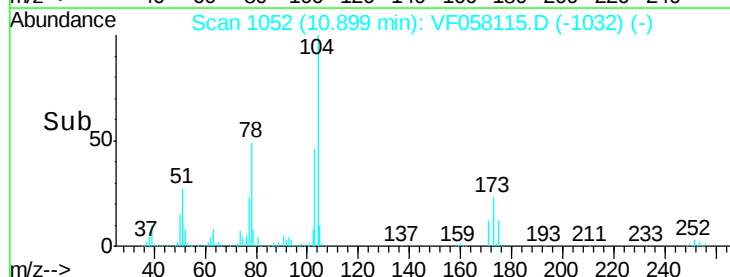
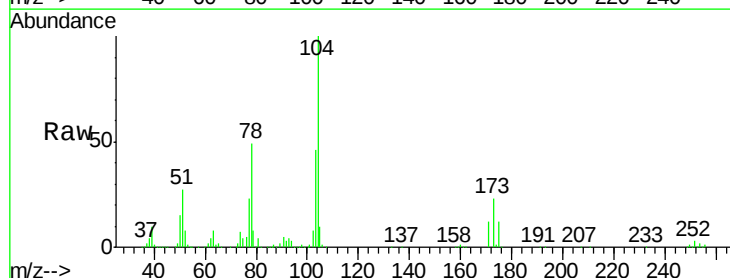
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC150

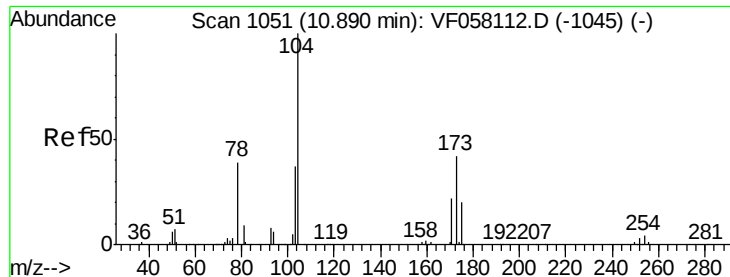
Tgt Ion:106 Resp: 1007260  
Ion Ratio Lower Upper  
106 100  
91 198.6 107.0 321.0



#70  
Styrene  
Concen: 127.50 ug/l  
RT: 10.90 min Scan# 1052  
Delta R.T. -0.00 min  
Lab File: VF058115.D  
Acq: 6 Jun 2018 19:05

Tgt Ion:104 Resp: 1521217  
Ion Ratio Lower Upper  
104 100  
78 49.0 38.4 57.6  
103 45.7 37.0 55.6





#71

Bromoform

Concen: 147.27 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

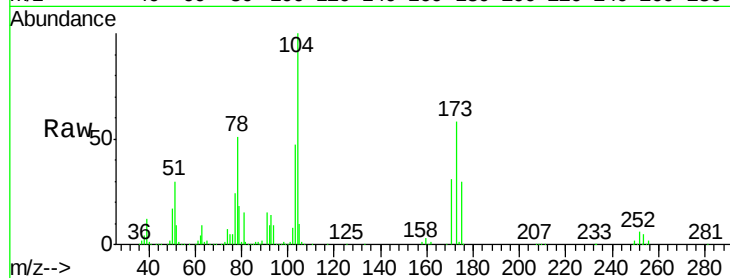
Tgt Ion:173 Resp: 443864

Ion Ratio Lower Upper

173 100

175 51.1 24.6 74.0

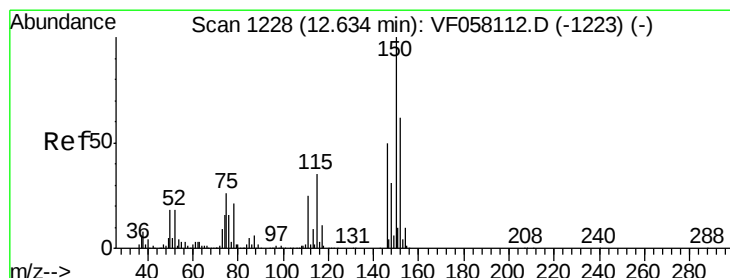
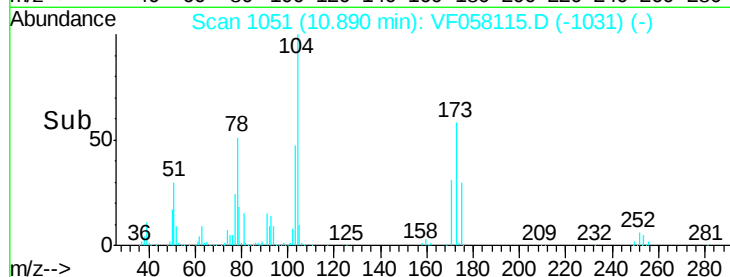
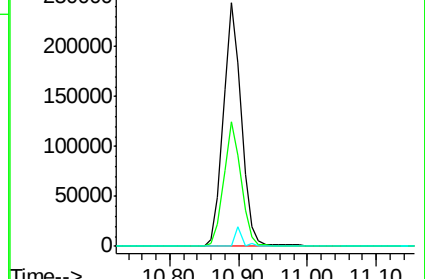
254 0.1 7.8 11.8#



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: 50.00 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

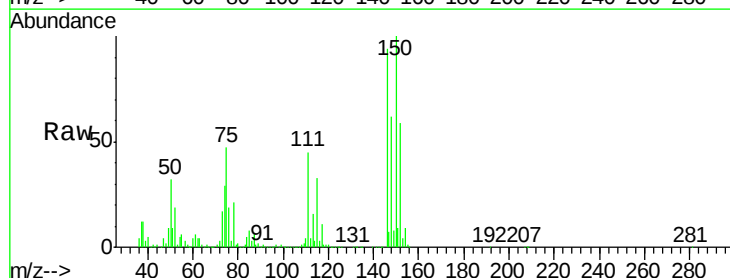
Tgt Ion:152 Resp: 307217

Ion Ratio Lower Upper

152 100

115 55.3 28.5 85.5

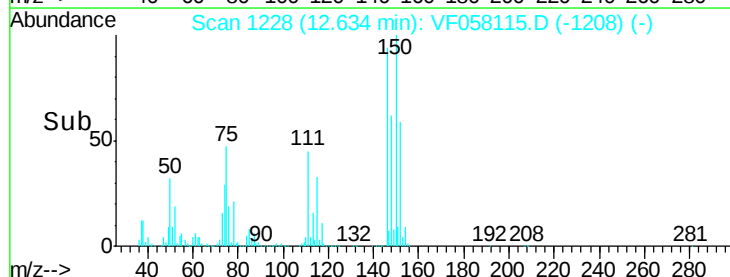
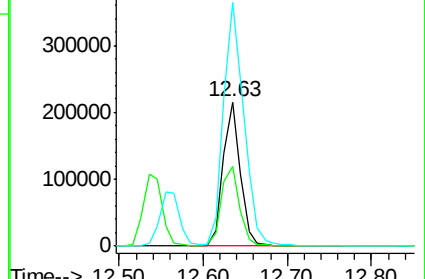
150 169.1 0.0 323.8

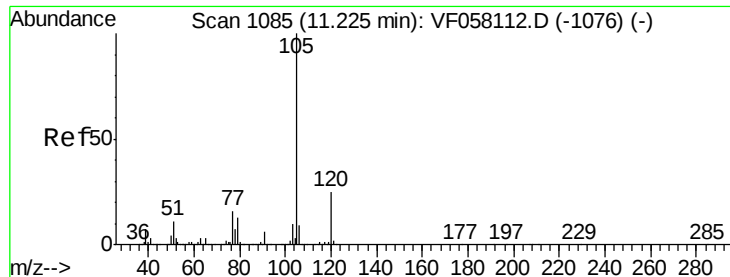


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 121.75 ug/l

RT: 11.22 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

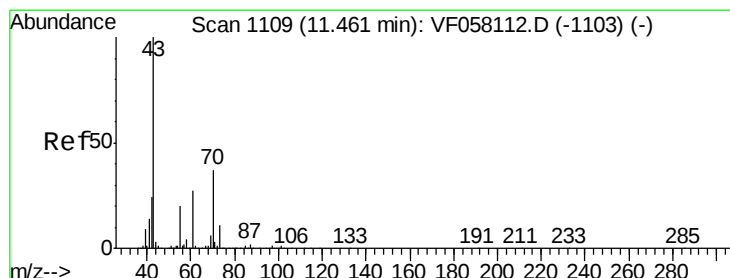
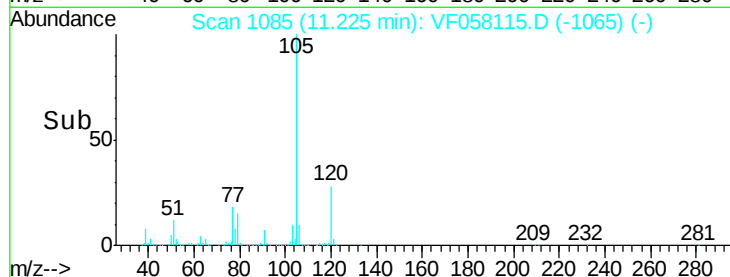
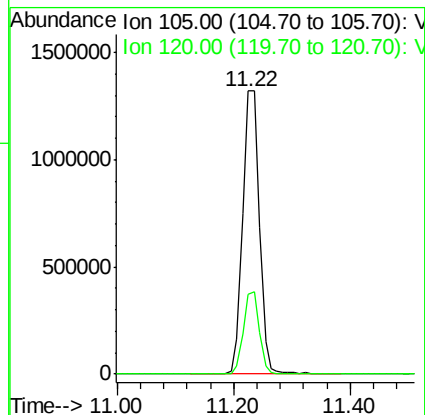
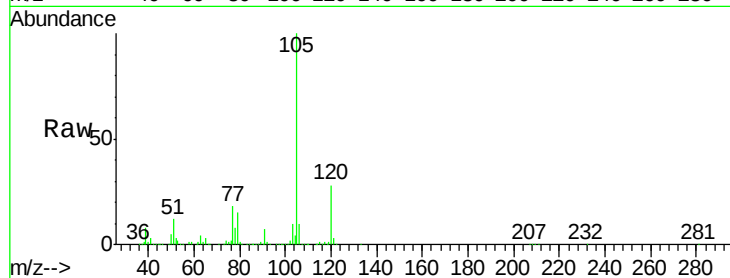
VSTDIC150

Tgt Ion:105 Resp: 2656145

Ion Ratio Lower Upper

105 100

120 28.2 12.7 38.1



#74

N-ethyl acetate

Concen: 125.73 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Tgt Ion: 43 Resp: 1022888

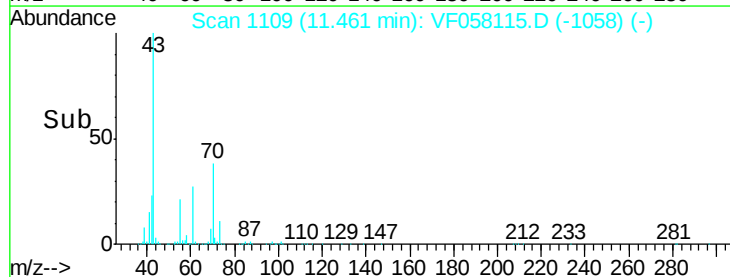
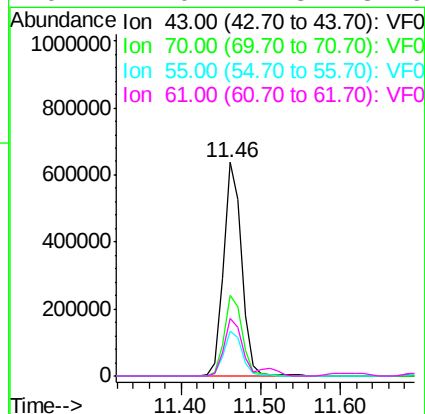
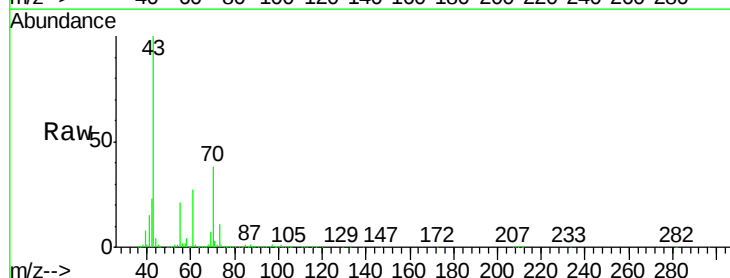
Ion Ratio Lower Upper

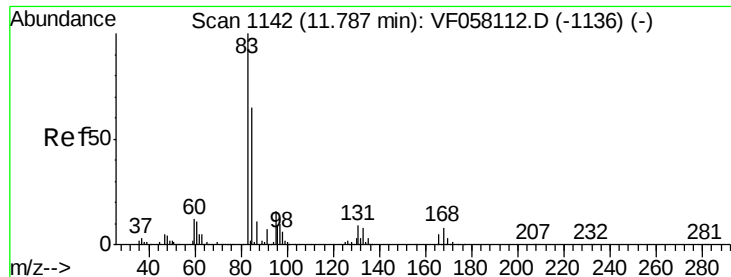
43 100

70 37.7 29.2 43.8

55 21.0 15.8 23.6

61 27.0 21.3 31.9





#75

1,1,2,2-Tetrachloroethane

Concen: 132.34 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

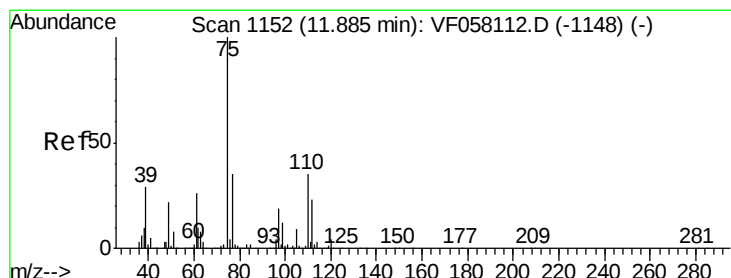
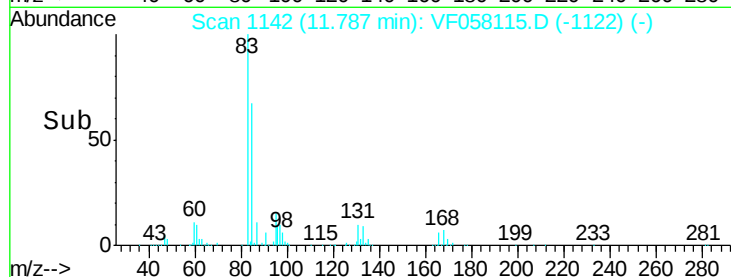
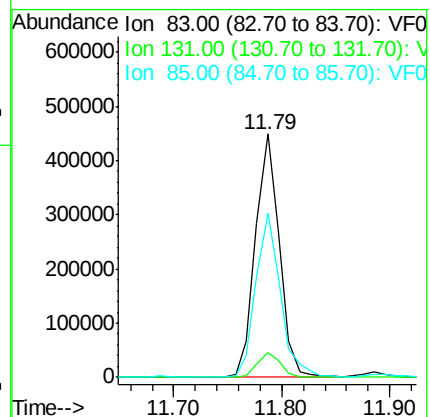
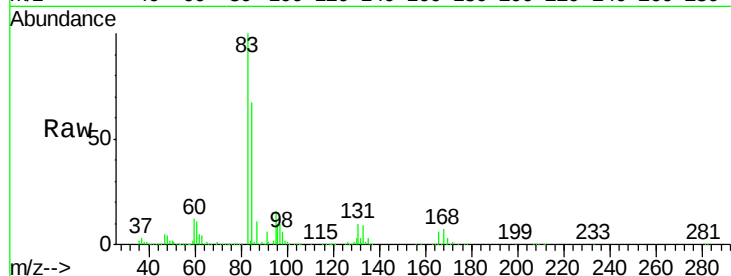
Tgt Ion: 83 Resp: 691597

Ion Ratio Lower Upper

83 100

131 10.0 4.5 13.7

85 67.4 32.8 98.3



#76

1,2,3-Trichloropropane

Concen: 135.06 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF058115.D

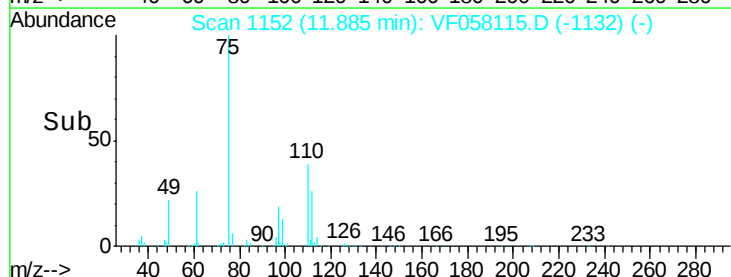
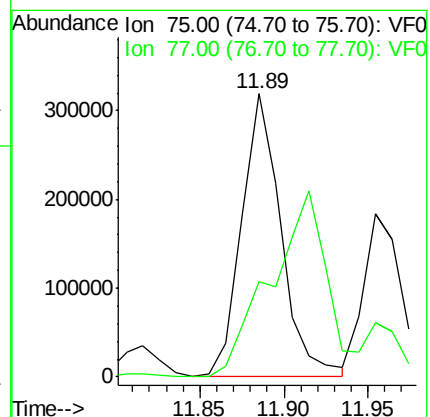
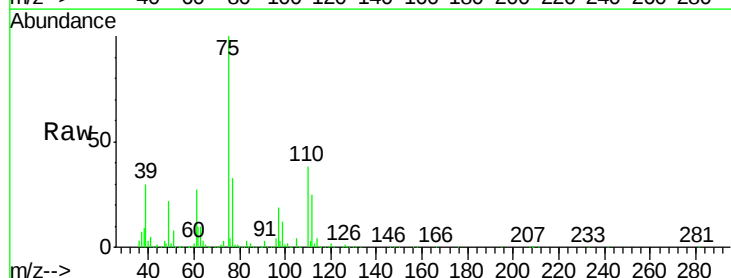
Acq: 6 Jun 2018 19:05

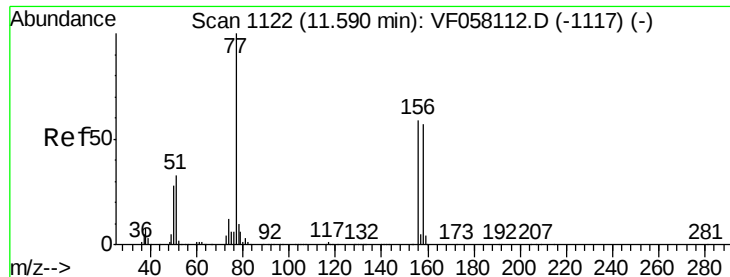
Tgt Ion: 75 Resp: 515050

Ion Ratio Lower Upper

75 100

77 33.5 17.5 52.5





#77

Bromobenzene

Concen: 135.74 ug/l

RT: 11.60 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

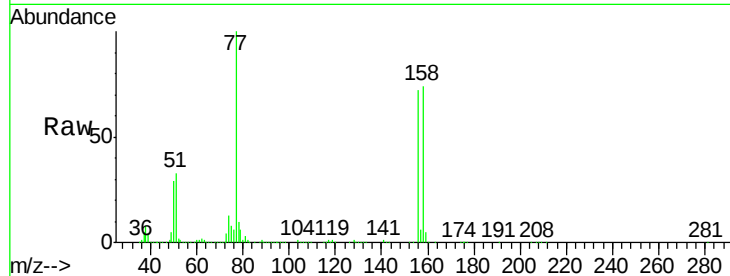
Tgt Ion:156 Resp: 737965

Ion Ratio Lower Upper

156 100

77 138.3 84.8 254.4

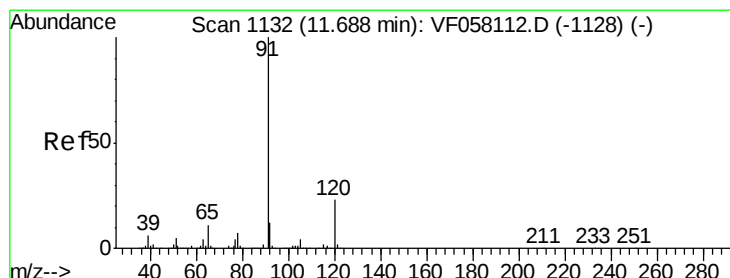
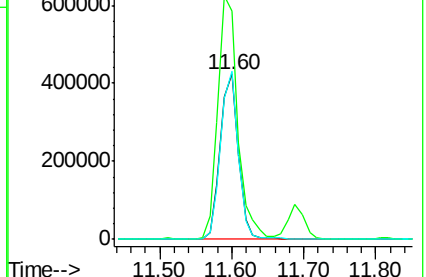
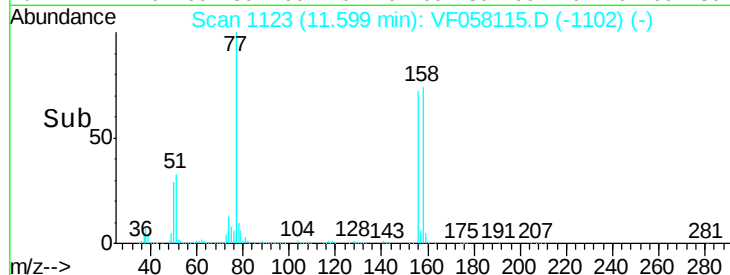
158 102.1 47.9 143.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 117.75 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF058115.D

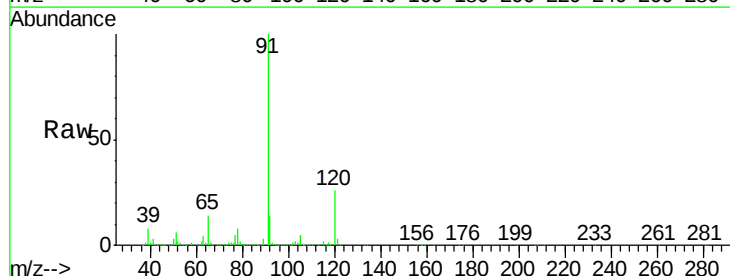
Acq: 6 Jun 2018 19:05

Tgt Ion: 91 Resp: 3069463

Ion Ratio Lower Upper

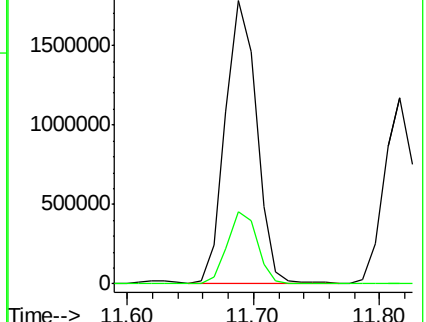
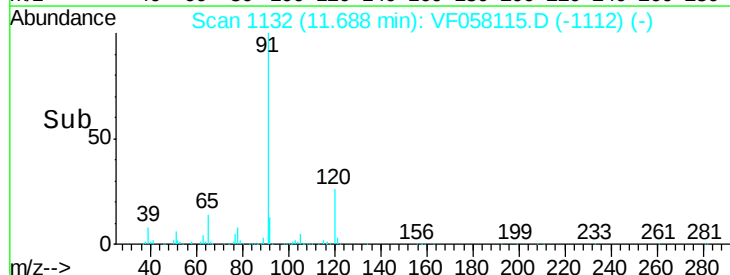
91 100

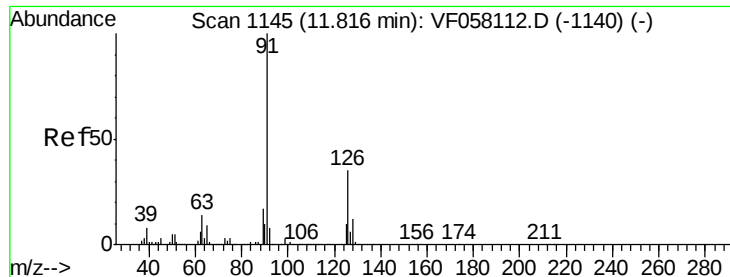
120 25.7 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 124.57 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

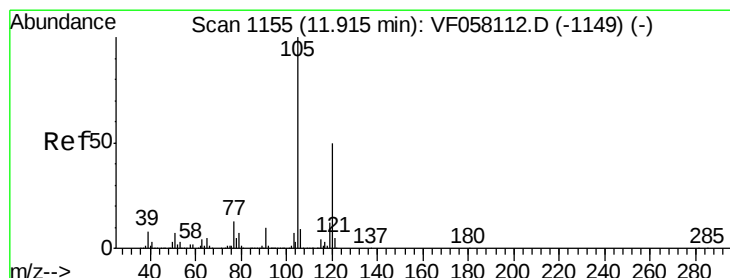
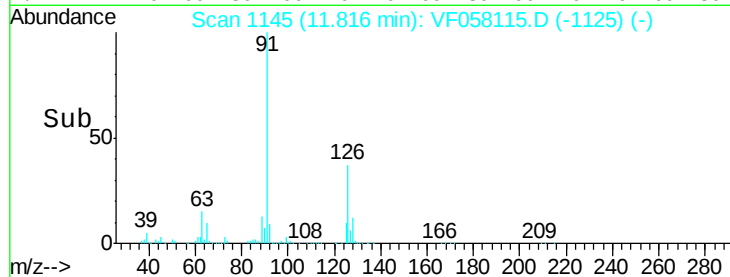
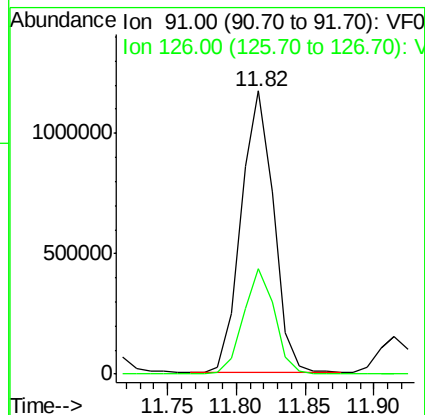
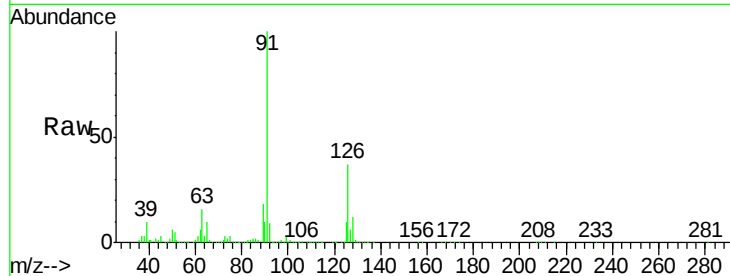
VSTDIC150

Tgt Ion: 91 Resp: 1918324

Ion Ratio Lower Upper

91 100

126 37.1 17.6 52.9



#80

1,3,5-Trimethylbenzene

Concen: 121.19 ug/l

RT: 11.91 min Scan# 1155

Delta R.T. -0.00 min

Lab File: VF058115.D

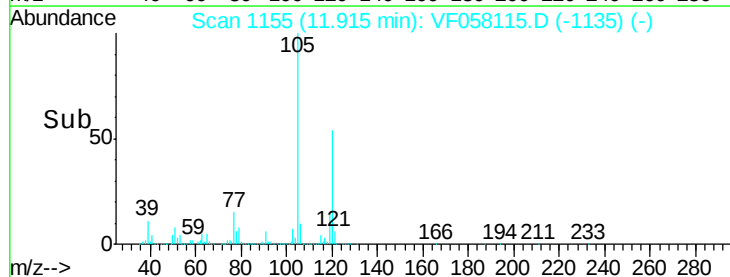
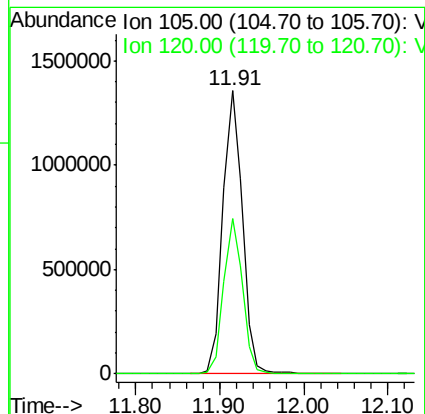
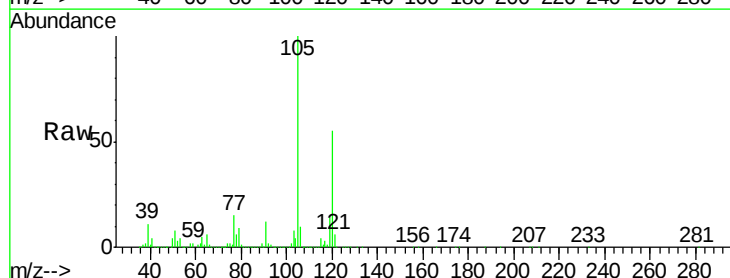
Acq: 6 Jun 2018 19:05

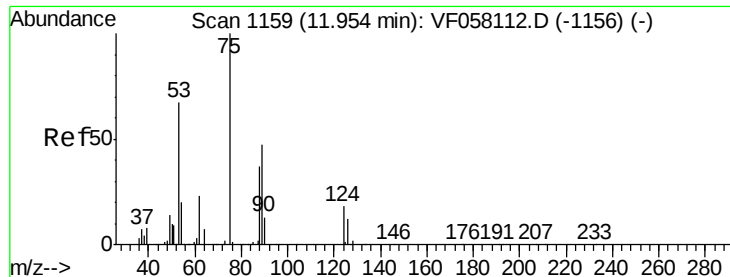
Tgt Ion: 105 Resp: 2191922

Ion Ratio Lower Upper

105 100

120 54.9 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 141.09 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

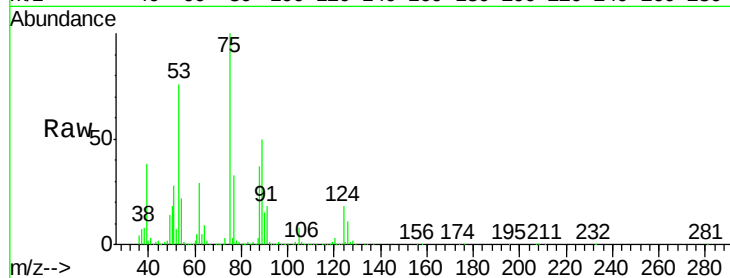
Tgt Ion: 75 Resp: 340768

Ion Ratio Lower Upper

75 100

53 75.5 58.7 88.1

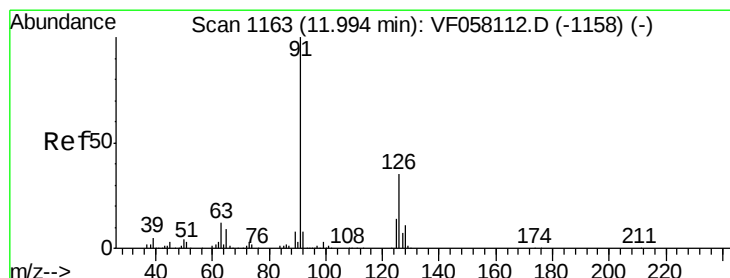
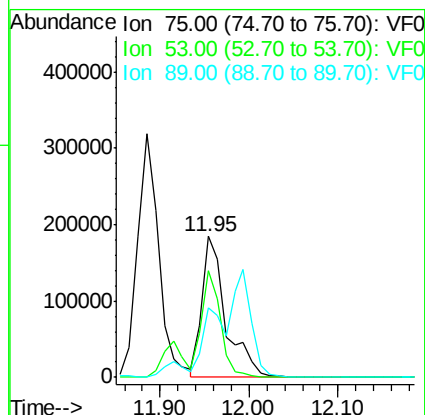
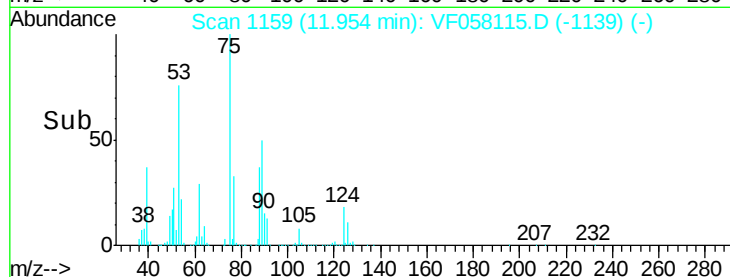
89 49.8 39.8 59.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 124.98 ug/l

RT: 11.99 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VF058115.D

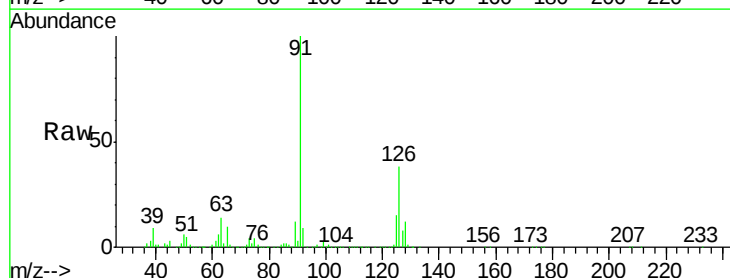
Acq: 6 Jun 2018 19:05

Tgt Ion: 91 Resp: 2029774

Ion Ratio Lower Upper

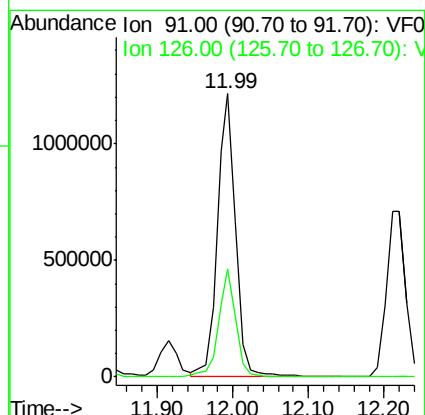
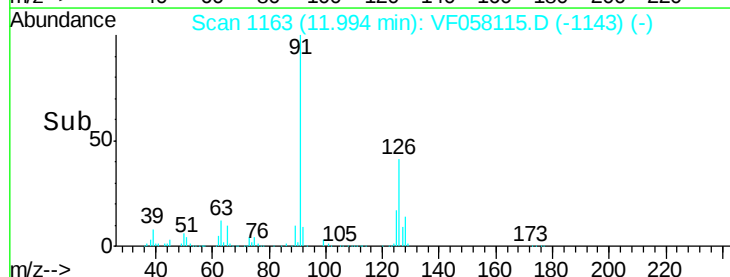
91 100

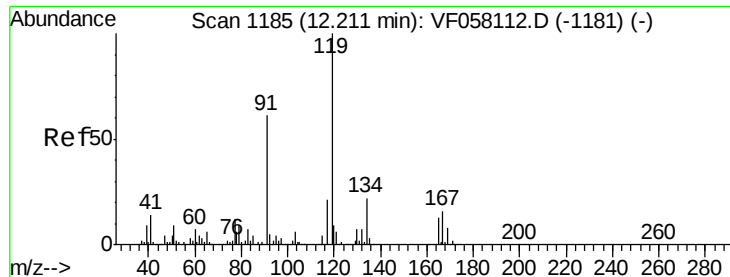
126 38.0 17.4 52.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 114.73 ug/l

RT: 12.22 min Scan# 1186

Delta R.T. 0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

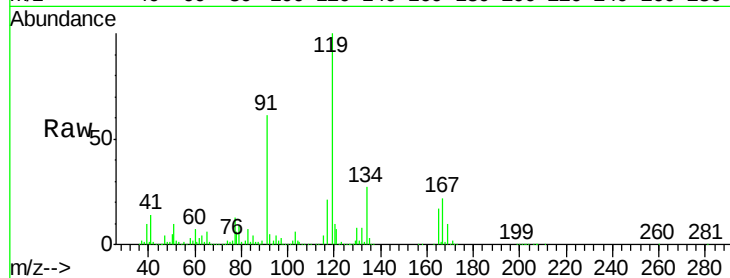
Tgt Ion:119 Resp: 2075441

Ion Ratio Lower Upper

119 100

91 61.4 30.4 91.3

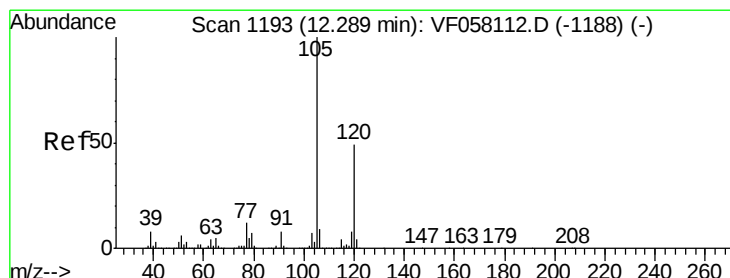
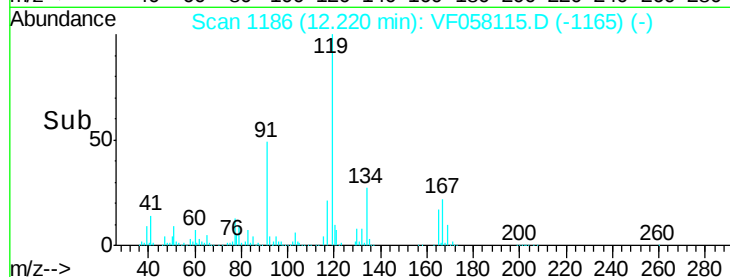
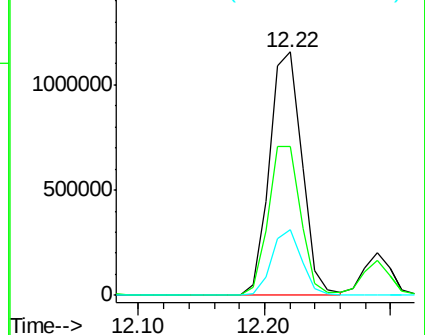
134 26.7 11.2 33.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 120.01 ug/l

RT: 12.29 min Scan# 1193

Delta R.T. -0.00 min

Lab File: VF058115.D

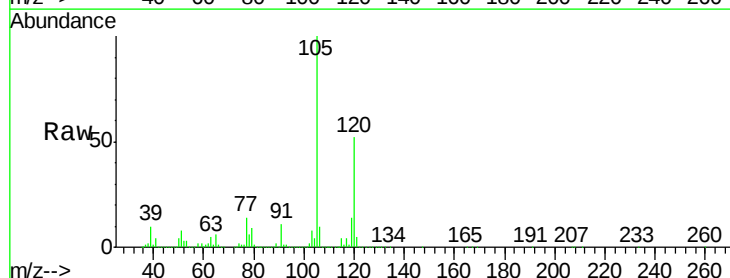
Acq: 6 Jun 2018 19:05

Tgt Ion:105 Resp: 2251661

Ion Ratio Lower Upper

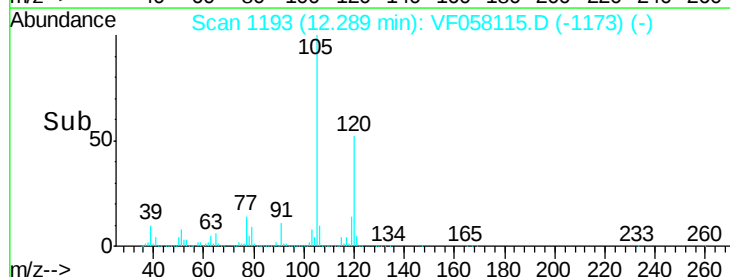
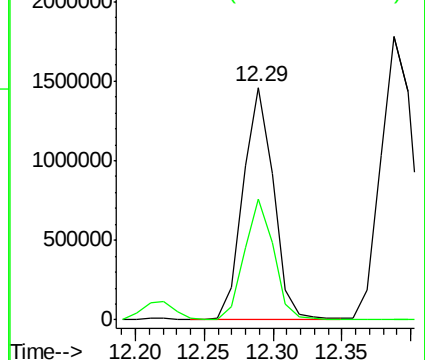
105 100

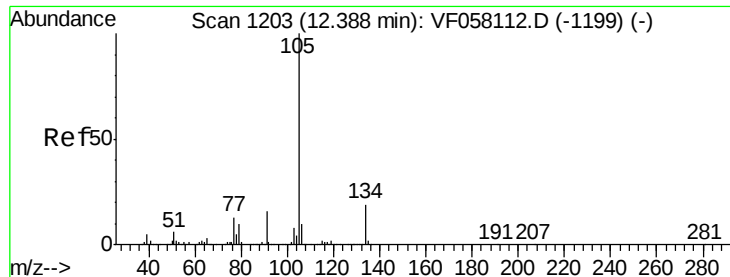
120 52.1 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

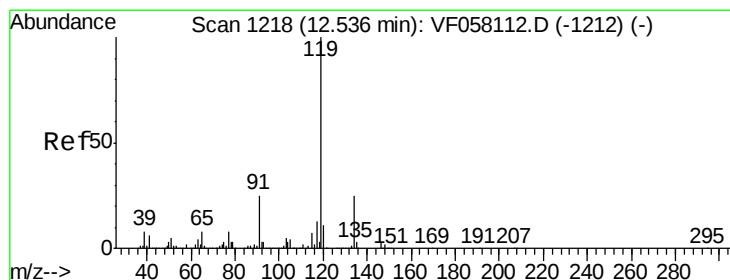
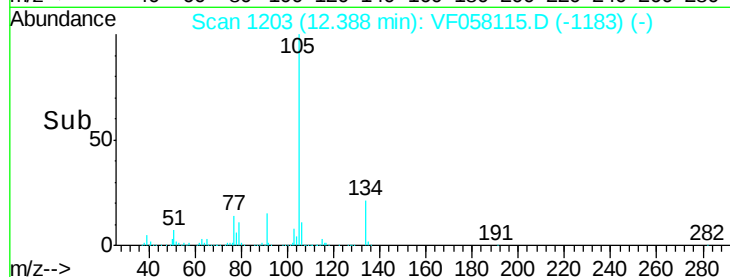
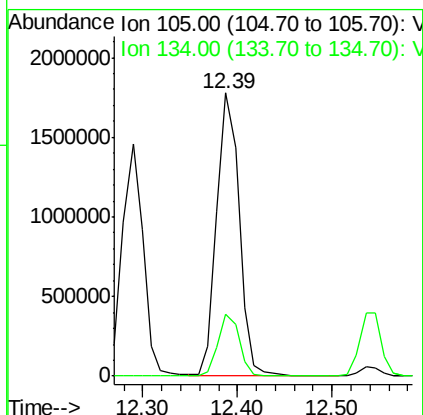
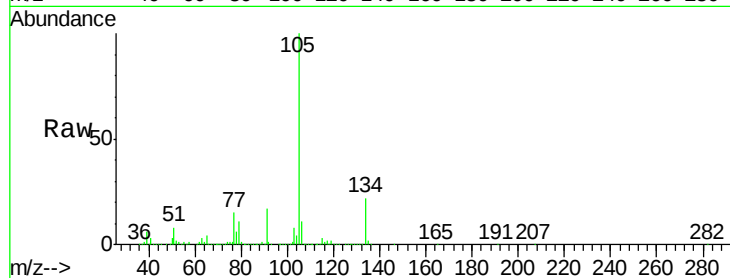




#85  
 sec-Butylbenzene  
 Concen: 119.93 ug/l  
 RT: 12.39 min Scan# 1203  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

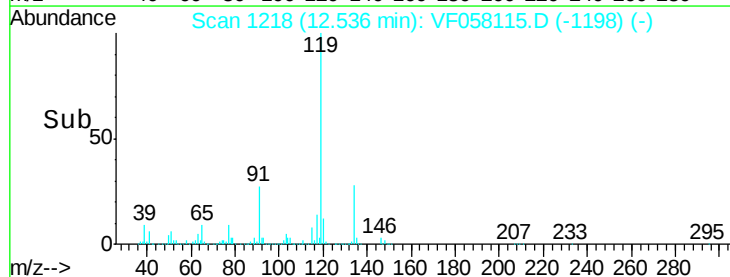
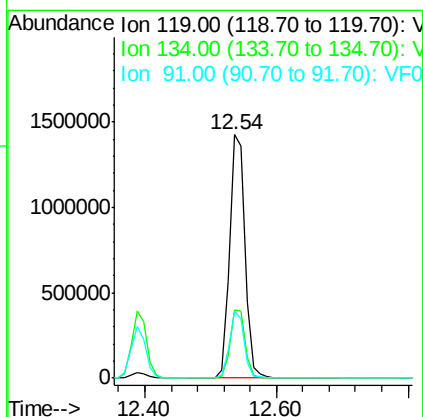
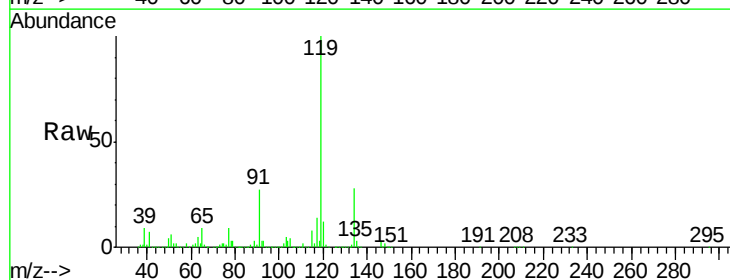
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC150

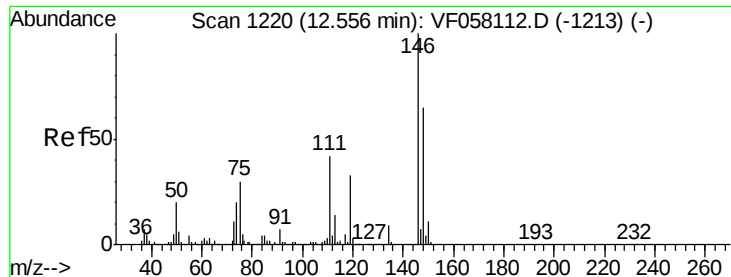
Tgt Ion:105 Resp: 2938607  
 Ion Ratio Lower Upper  
 105 100  
 134 21.9 9.6 28.6



#86  
 p-Isopropyltoluene  
 Concen: 114.76 ug/l  
 RT: 12.54 min Scan# 1218  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

Tgt Ion:119 Resp: 2344235  
 Ion Ratio Lower Upper  
 119 100  
 134 27.8 12.7 38.0  
 91 27.3 12.6 37.6

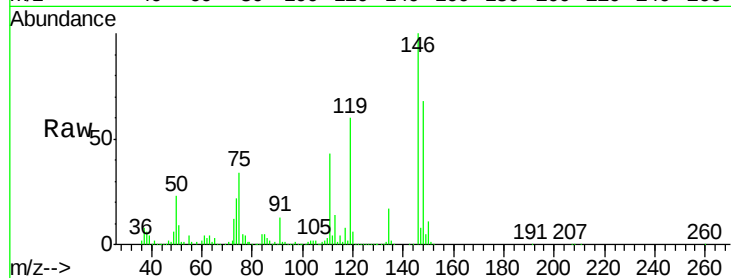




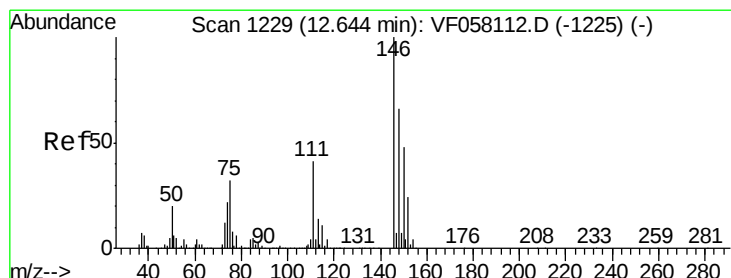
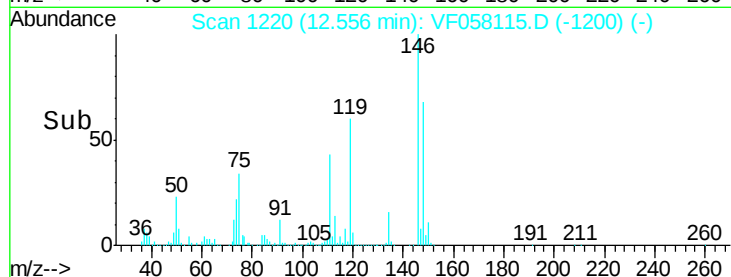
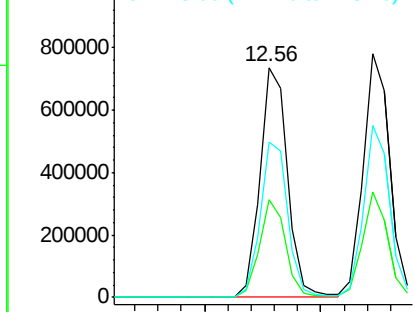
#87  
 1,3-Dichlorobenzene  
 Concen: 120.43 ug/l  
 RT: 12.56 min Scan# 1220  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC150

Tgt Ion:146 Resp: 1207043  
 Ion Ratio Lower Upper  
 146 100  
 111 42.6 20.8 62.5  
 148 67.8 32.3 96.9

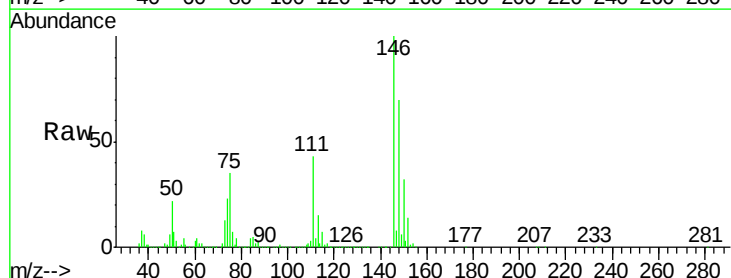


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

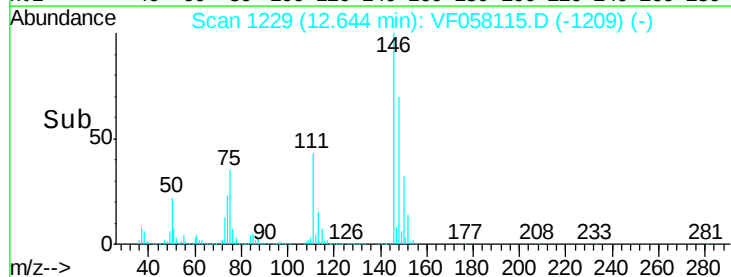
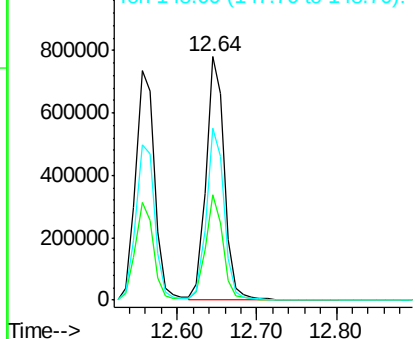


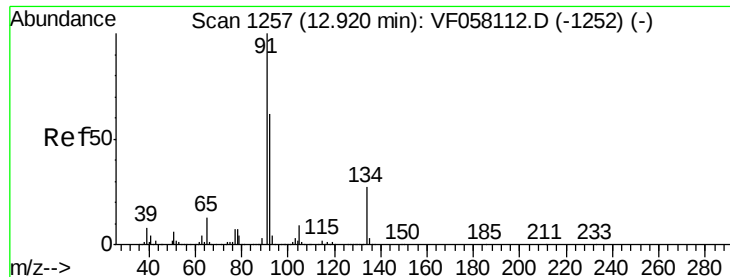
#88  
 1,4-Dichlorobenzene  
 Concen: 129.77 ug/l  
 RT: 12.64 min Scan# 1229  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

Tgt Ion:146 Resp: 1248670  
 Ion Ratio Lower Upper  
 146 100  
 111 43.3 20.4 61.2  
 148 70.5 33.0 99.0



Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 109.05 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

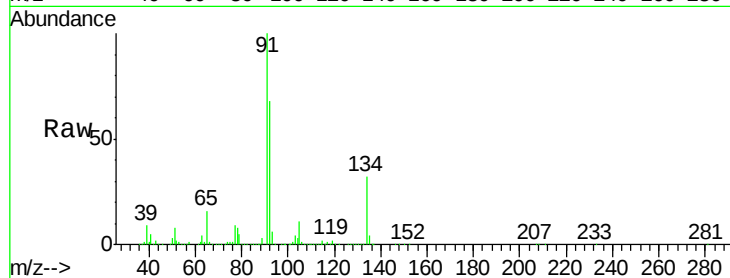
Tgt Ion: 91 Resp: 2321723

Ion Ratio Lower Upper

91 100

92 68.1 31.1 93.5

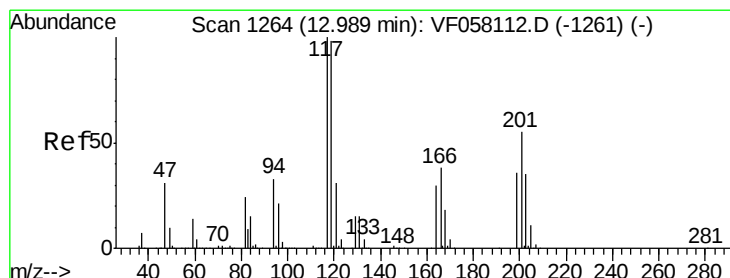
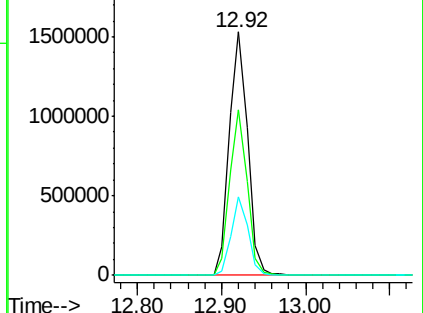
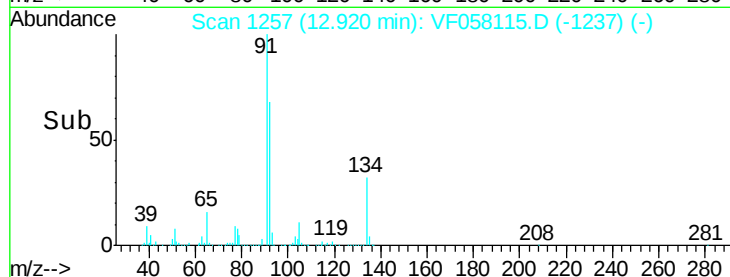
134 32.2 13.6 40.8



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: 128.64 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF058115.D

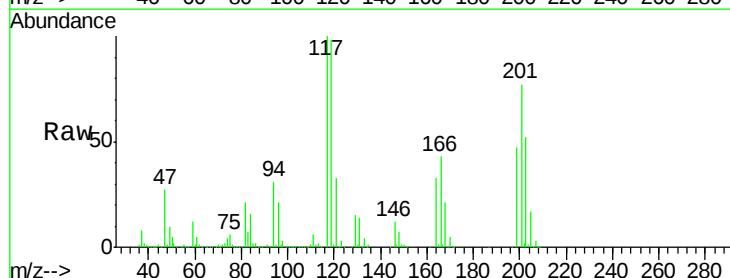
Acq: 6 Jun 2018 19:05

Tgt Ion: 117 Resp: 633726

Ion Ratio Lower Upper

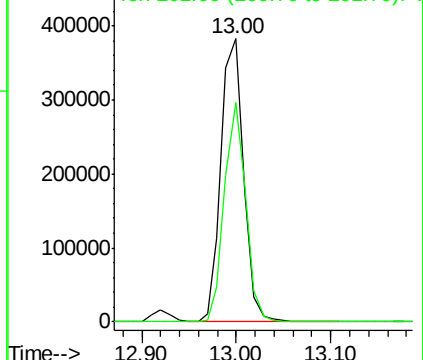
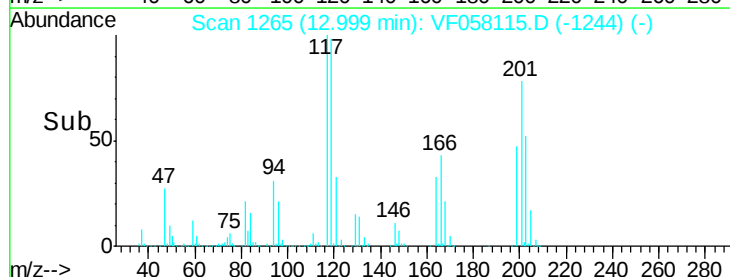
117 100

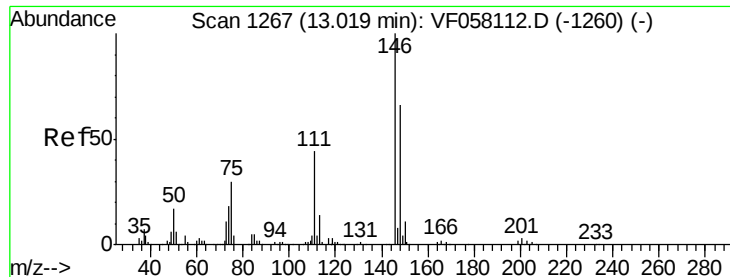
201 77.4 27.5 82.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

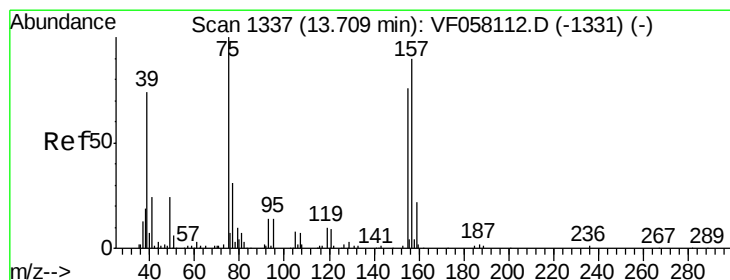
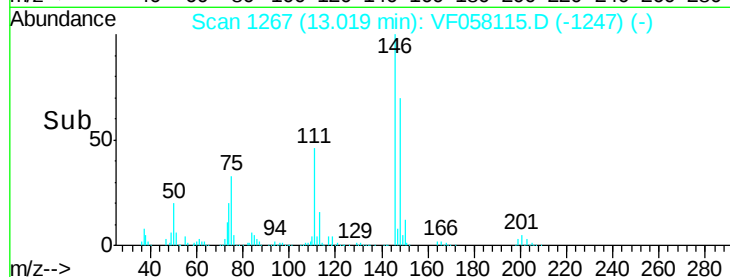
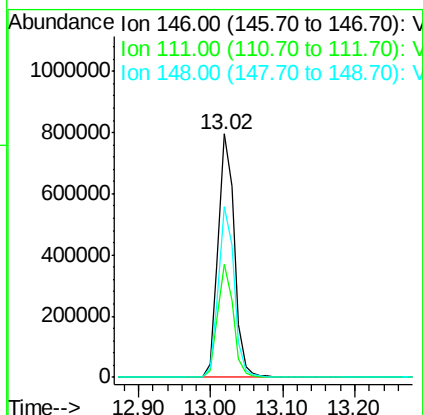
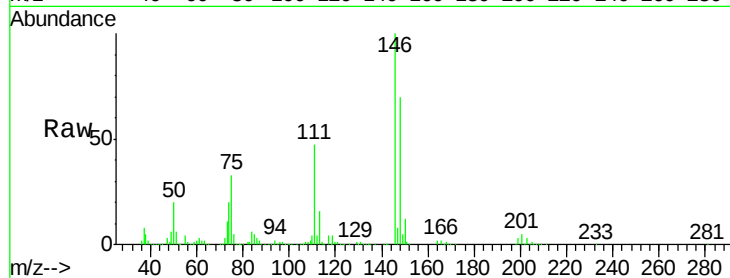




#91  
 1,2-Dichlorobenzene  
 Concen: 125.69 ug/l  
 RT: 13.02 min Scan# 1267  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

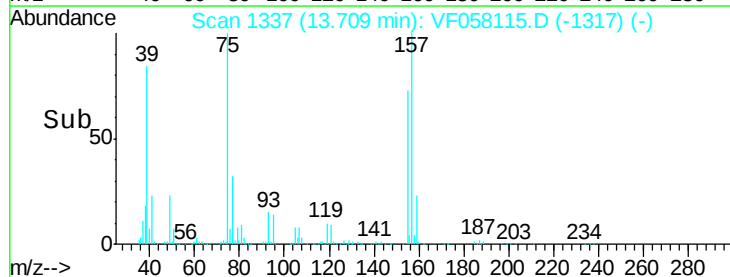
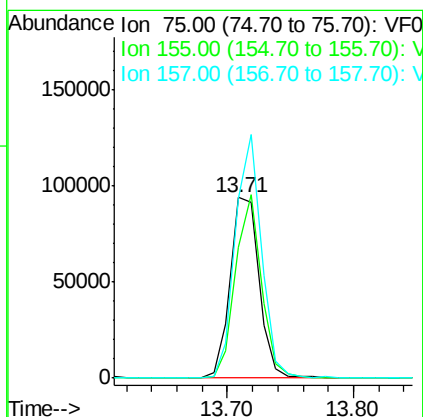
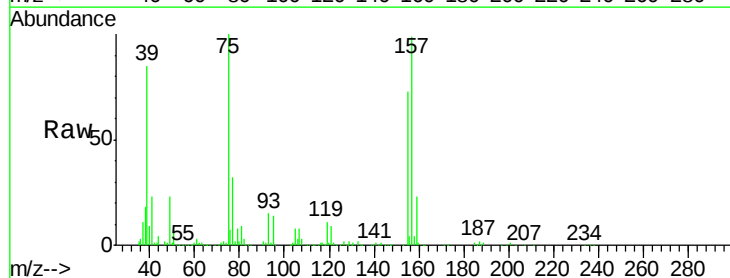
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC150

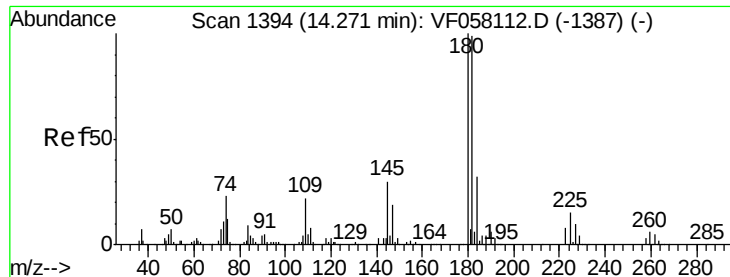
Tgt Ion:146 Resp: 1222842  
 Ion Ratio Lower Upper  
 146 100  
 111 46.5 22.0 66.0  
 148 70.3 33.1 99.3



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 148.71 ug/l  
 RT: 13.71 min Scan# 1337  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

Tgt Ion: 75 Resp: 148230  
 Ion Ratio Lower Upper  
 75 100  
 155 72.9 38.0 114.0  
 157 99.2 45.1 135.5

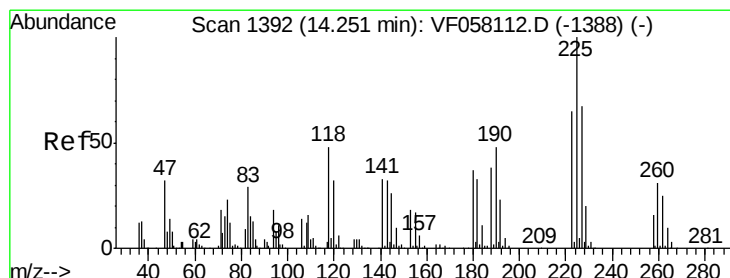
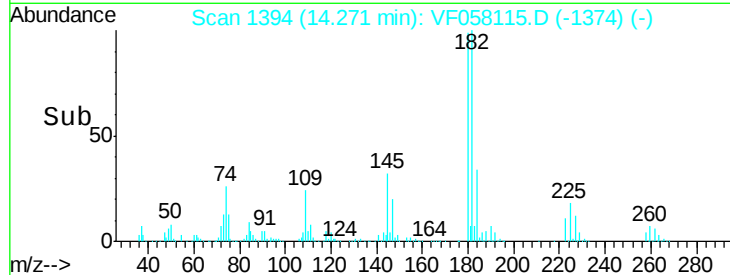
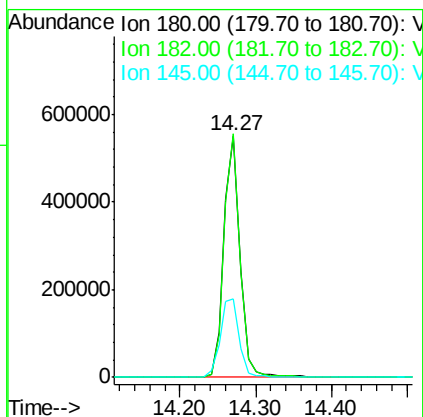
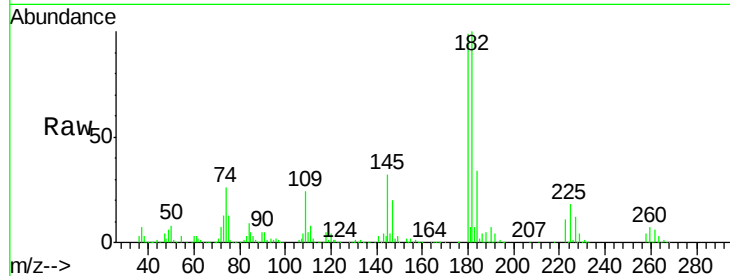




#93  
 1,2,4-Trichlorobenzene  
 Concen: 121.39 ug/l  
 RT: 14.27 min Scan# 1394  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

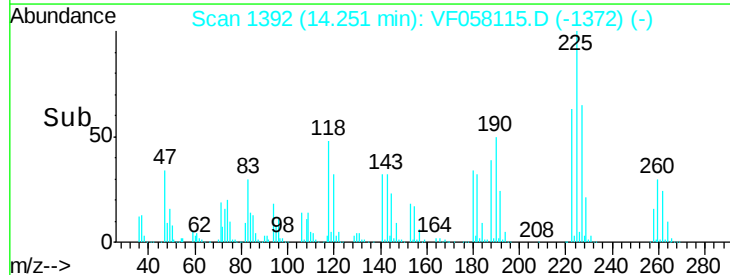
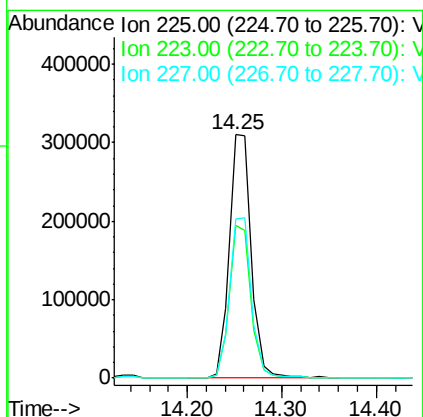
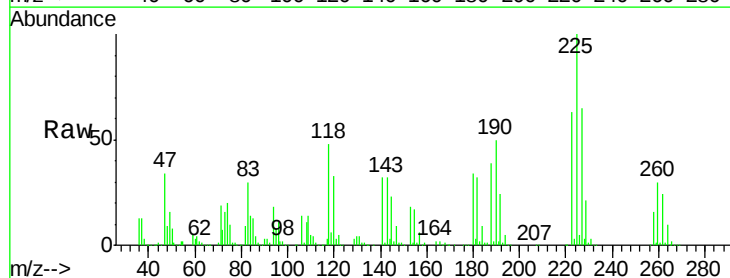
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC150

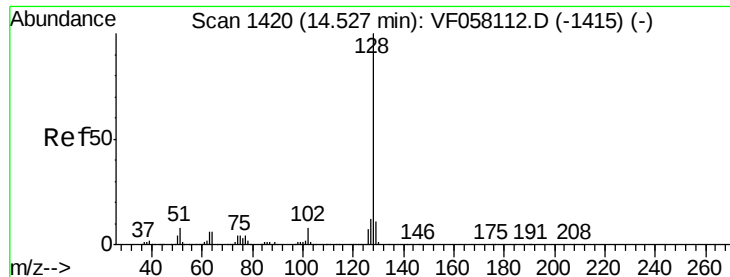
Tgt Ion:180 Resp: 828302  
 Ion Ratio Lower Upper  
 180 100  
 182 100.8 49.3 147.9  
 145 32.7 14.9 44.9



#94  
 Hexachlorobutadiene  
 Concen: 127.19 ug/l  
 RT: 14.25 min Scan# 1392  
 Delta R.T. -0.00 min  
 Lab File: VF058115.D  
 Acq: 6 Jun 2018 19:05

Tgt Ion:225 Resp: 501051  
 Ion Ratio Lower Upper  
 225 100  
 223 62.7 32.8 98.3  
 227 65.3 33.3 99.9





#95

Naphthalene

Concen: 140.03 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.01 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC150

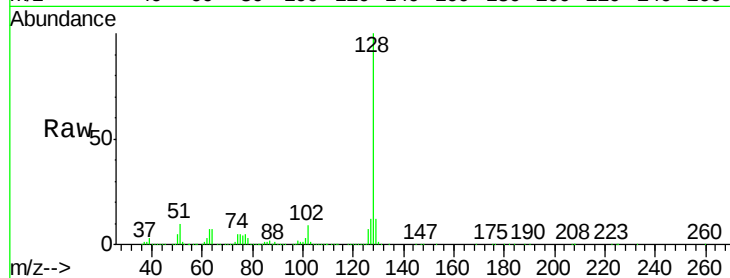
Tgt Ion:128 Resp: 2039873

Ion Ratio Lower Upper

128 100

127 12.5 9.9 14.9

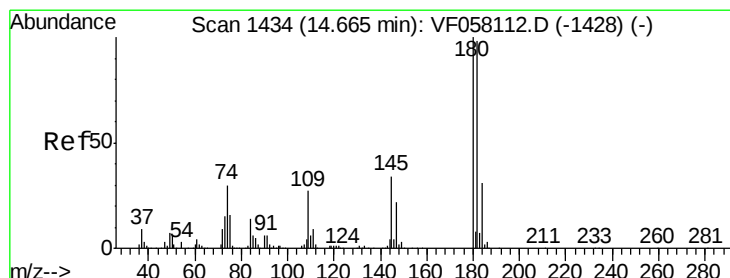
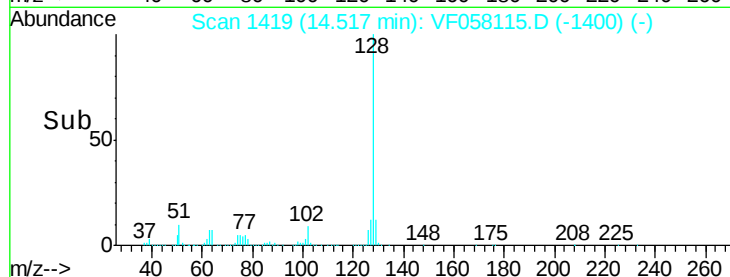
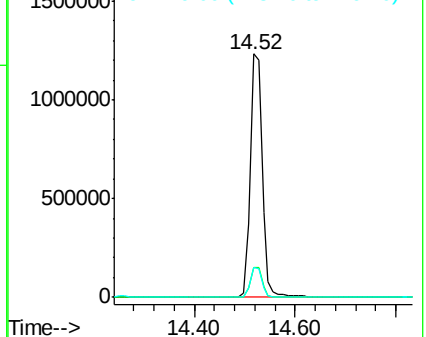
129 12.3 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 131.07 ug/l

RT: 14.66 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VF058115.D

Acq: 6 Jun 2018 19:05

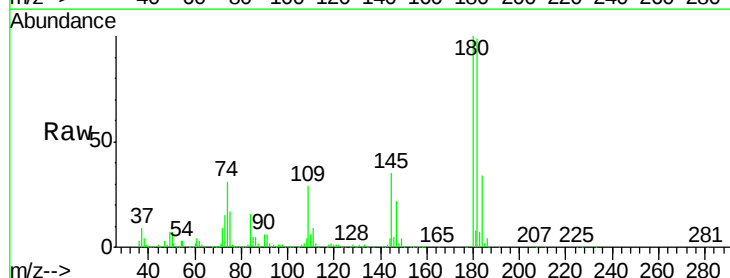
Tgt Ion:180 Resp: 842643

Ion Ratio Lower Upper

180 100

182 99.2 48.9 146.6

145 34.7 17.3 51.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

