

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\  
 Data File : VF062480.D  
 Acq On : 12 May 2019 1:59  
 Operator : FY/SY  
 Sample : K2733-18  
 Misc : 6.00µ/5mL/MSVOA F/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P021-SS003-1824-01

Quant Time: May 12 03:53:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.08  | 168  | 474      | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 5.79  | 114  | 130      | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 10.02 | 117  | 71       | 50.00 | ug/l  | 0.12     |
| 72) 1,4-Dichlorobenzene-d4 | 12.74 | 152  | 76       | 50.00 | ug/l  | 0.13     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.04  | 65   | 296        | 66.08   | ug/l  | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery = | 132.16% |       |          |
| 35) Dibromofluoromethane    | 4.22  | 113  | 80         | 77.24   | ug/l  | -0.08    |
| Spiked Amount 50.000        |       |      | Recovery = | 154.48% |       |          |
| 50) Toluene-d8              | 7.77  | 98   | 86         | 34.30   | ug/l  | 0.06     |
| Spiked Amount 50.000        |       |      | Recovery = | 68.60%  |       |          |
| 62) 4-Bromofluorobenzene    | 11.53 | 95   | 65         | 57.47   | ug/l  | 0.04     |
| Spiked Amount 50.000        |       |      | Recovery = | 114.94% |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.83 | 85   | 93       | 16.953  | ug/l # | 41     |
| 3) Chloromethane              | 1.21 | 50   | 141      | 38.972  | ug/l # | 21     |
| 4) Vinyl Chloride             | 1.05 | 62   | 88       | 24.385  | ug/l # | 42     |
| 5) Bromomethane               | 1.40 | 94   | 149      | 54.968  | ug/l # | 10     |
| 6) Chloroethane               | 1.44 | 64   | 65       | 35.826  | ug/l # | 41     |
| 7) Trichlorofluoromethane     | 1.52 | 101  | 75       | 10.017  | ug/l # | 20     |
| 8) Diethyl Ether              | 1.54 | 74   | 87       | 76.791  | ug/l   | 46     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.04 | 101  | 189      | 44.213  | ug/l # | 18     |
| 10) Methyl Iodide             | 2.08 | 142  | 60       | 8.517   | ug/l # | 29     |
| 11) Tert butyl alcohol        | 2.73 | 59   | 73       | 288.345 | ug/l # | 70     |
| 12) 1,1-Dichloroethene        | 1.88 | 96   | 123      | 33.846  | ug/l # | 1      |
| 13) Acrolein                  | 2.15 | 56   | 106      | 716.784 | ug/l # | 15     |
| 14) Allyl chloride            | 2.19 | 41   | 316      | 98.436  | ug/l # | 75     |
| 15) Acrylonitrile             | 3.11 | 53   | 98       | 204.351 | ug/l # | 43     |
| 16) Acetone                   | 2.36 | 43   | 233      | 257.126 | ug/l # | 62     |
| 17) Carbon Disulfide          | 1.90 | 76   | 135      | 17.037  | ug/l # | 71     |
| 18) Methyl Acetate            | 2.47 | 43   | 77       | 46.367  | ug/l # | 58     |
| 19) Methyl tert-butyl Ether   | 2.57 | 73   | 267      | 35.592  | ug/l # | 61     |
| 20) Methylene Chloride        | 2.48 | 84   | 101      | 30.807  | ug/l # | 1      |
| 21) trans-1,2-Dichloroethene  | 2.41 | 96   | 182      | 52.564  | ug/l # | 1      |
| 22) Diisopropyl ether         | 2.95 | 45   | 271      | 27.010  | ug/l # | 39     |
| 23) Vinyl Acetate             | 3.38 | 43   | 69       | 15.430  | ug/l # | 79     |
| 24) 1,1-Dichloroethane        | 2.94 | 63   | 64       | 10.554  | ug/l # | 86     |
| 25) 2-Butanone                | 4.58 | 43   | 262      | 230.138 | ug/l # | 60     |
| 26) 2,2-Dichloropropane       | 3.81 | 77   | 237      | 69.987  | ug/l # | 58     |
| 27) cis-1,2-Dichloroethene    | 3.63 | 96   | 70       | 16.174  | ug/l # | 65     |
| 28) Bromochloromethane        | 3.95 | 49   | 86       | 31.272  | ug/l # | 1      |
| 29) Tetrahydrofuran           | 4.30 | 42   | 188      | 359.310 | ug/l # | 61     |
| 30) Chloroform                | 4.09 | 83   | 107      | 13.061  | ug/l # | 19     |
| 31) Cyclohexane               | 3.88 | 56   | 244      | 50.412  | ug/l # | 16     |
| 32) 1,1,1-Trichloroethane     | 4.36 | 97   | 73       | 10.397  | ug/l # | 1      |
| 36) 1,1-Dichloropropene       | 4.59 | 75   | 111      | 99.396  | ug/l # | 1      |
| 37) Ethyl Acetate             | 4.29 | 43   | 257      | 654.708 | ug/l # | 47     |
| 38) Carbon Tetrachloride      | 4.15 | 117  | 66       | 57.389  | ug/l # | 14     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\  
 Data File : VF062480.D  
 Acq On : 12 May 2019 1:59  
 Operator : FY/SY  
 Sample : K2733-18  
 Misc : 6.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P021-SS003-1824-01

Quant Time: May 12 03:53:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

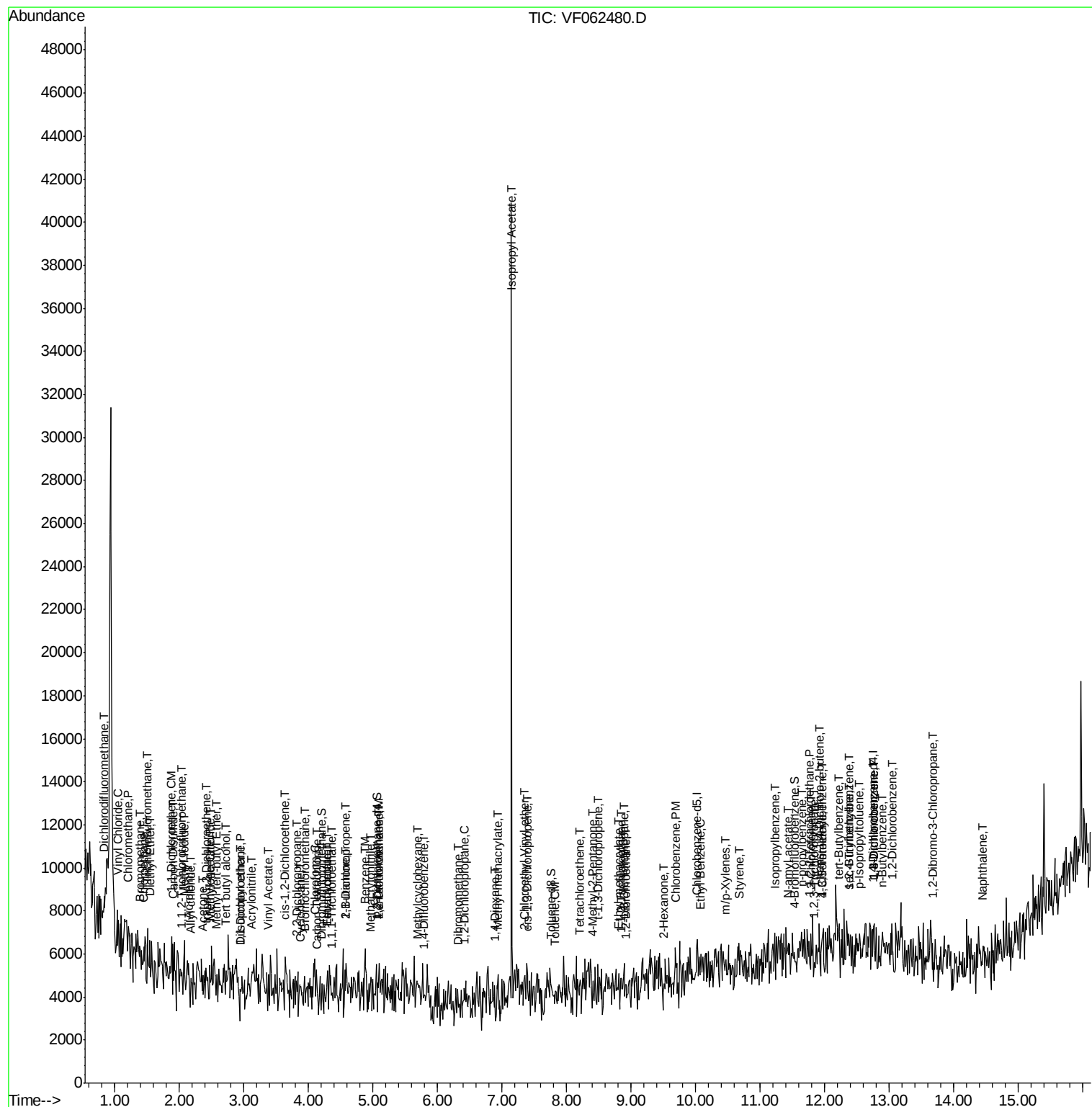
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 39) Methylcyclohexane          | 5.71  | 83   | 68       | 60.714    | ug/l # | 26       |
| 40) Benzene                    | 4.87  | 78   | 147      | 59.777    | ug/l # | 48       |
| 41) Methacrylonitrile          | 4.96  | 41   | 340      | 1269.728  | ug/l # | 21       |
| 42) 1,2-Dichloroethane         | 5.08  | 62   | 86       | 83.617    | ug/l # | 82       |
| 43) Isopropyl Acetate          | 7.14  | 43   | 574      | 1130.027  | ug/l # | 48       |
| 45) 1,2-Dichloropropane        | 6.42  | 63   | 66       | 118.491   | ug/l # | 43       |
| 46) Dibromomethane             | 6.31  | 93   | 98       | 212.202   | ug/l # | 1        |
| 48) Methyl methacrylate        | 6.94  | 41   | 336      | 936.026   | ug/l # | 54       |
| 49) 1,4-Dioxane                | 6.89  | 88   | 69       | 18923.905 | ug/l # | 34       |
| 51) 4-Methyl-2-Pentanone       | 8.42  | 43   | 114      | 296.183   | ug/l # | 40       |
| 52) Toluene                    | 7.81  | 92   | 72       | 47.460    | ug/l # | 45       |
| 53) t-1,3-Dichloropropene      | 8.48  | 75   | 59       | 67.561    | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene    | 7.40  | 75   | 63       | 61.987    | ug/l # | 44       |
| 55) 1,1,2-Trichloroethane      | 8.85  | 97   | 93       | 193.109   | ug/l # | 14       |
| 56) Ethyl methacrylate         | 8.82  | 69   | 60       | 118.024   | ug/l # | 1        |
| 57) 1,3-Dichloropropane        | 8.88  | 76   | 66       | 90.728    | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether  | 7.34  | 63   | 100      | 654.282   | ug/l # | 42       |
| 59) 2-Hexanone                 | 9.51  | 43   | 151      | 567.252   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 8.93  | 107  | 61       | 107.769   | ug/l # | 3        |
| 64) Tetrachloroethene          | 8.20  | 164  | 64       | 111.034   | ug/l # | 1        |
| 65) Chlorobenzene              | 9.68  | 112  | 102      | 86.828    | ug/l # | 43       |
| 67) Ethyl Benzene              | 10.08 | 91   | 91       | 44.238    | ug/l # | 45       |
| 68) m/p-Xylenes                | 10.47 | 106  | 102      | 134.390   | ug/l # | 24       |
| 70) Styrene                    | 10.66 | 104  | 69       | 56.136    | ug/l # | 28       |
| 73) Isopropylbenzene           | 11.23 | 105  | 156      | 34.624    | ug/l # | 50       |
| 74) N-amyl acetate             | 11.42 | 43   | 475      | 491.065   | ug/l # | 71       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.75 | 83   | 112      | 158.761   | ug/l # | 22       |
| 76) 1,2,3-Trichloropropane     | 11.84 | 75   | 61       | 113.336   | ug/l # | 100      |
| 78) n-propylbenzene            | 11.64 | 91   | 66       | 13.759    | ug/l # | 52       |
| 79) 2-Chlorotoluene            | 11.79 | 91   | 72       | 24.138    | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene     | 11.94 | 105  | 96       | 24.309    | ug/l # | 28       |
| 81) trans-1,4-Dichloro-2-buten | 11.93 | 75   | 61       | 301.516   | ug/l # | 5        |
| 82) 4-Chlorotoluene            | 11.94 | 91   | 69       | 23.421    | ug/l # | 39       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 138      | 33.251    | ug/l # | 1        |
| 84) 1,2,4-Trimethylbenzene     | 12.38 | 105  | 75       | 19.407    | ug/l # | 31       |
| 85) sec-Butylbenzene           | 12.38 | 105  | 75       | 14.846    | ug/l # | 1        |
| 86) p-Isopropyltoluene         | 12.55 | 119  | 63       | 13.423    | ug/l # | 50       |
| 87) 1,3-Dichlorobenzene        | 12.76 | 146  | 105      | 48.620    | ug/l # | 25       |
| 88) 1,4-Dichlorobenzene        | 12.76 | 146  | 105      | 50.375    | ug/l # | 25       |
| 89) n-Butylbenzene             | 12.88 | 91   | 60       | 14.369    | ug/l # | 29       |
| 91) 1,2-Dichlorobenzene        | 13.04 | 146  | 73       | 34.923    | ug/l # | 24       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.67 | 75   | 64       | 404.948   | ug/l # | 1        |
| 95) Naphthalene                | 14.45 | 128  | 82       | 29.091    | ug/l # | 69       |

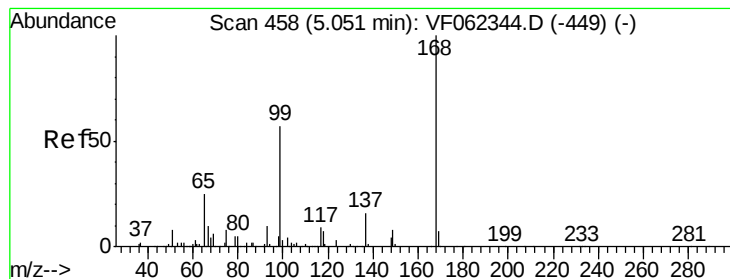
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051119\  
Data File : VF062480.D  
Acq On : 12 May 2019 1:59  
Operator : FY/SY  
Sample : K2733-18  
Misc : 6.00µ/5mL/MSVOA F/SOIL  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

Quant Time: May 12 03:53:26 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 04:34:57 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 462

Delta R.T. 0.03 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

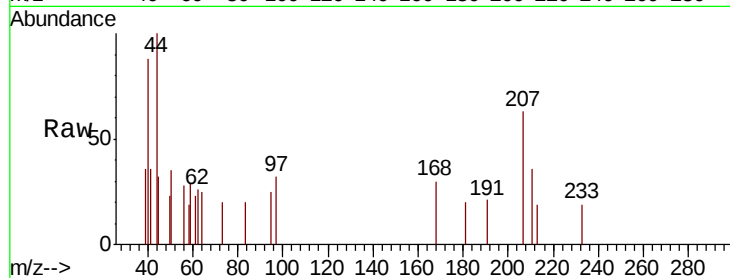
P021-SS003-1824-01

Tot Ion:168 Resp: 474

Ion Ratio Lower Upper

168 100

99 0.0 45.9 68.9#



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.08

150

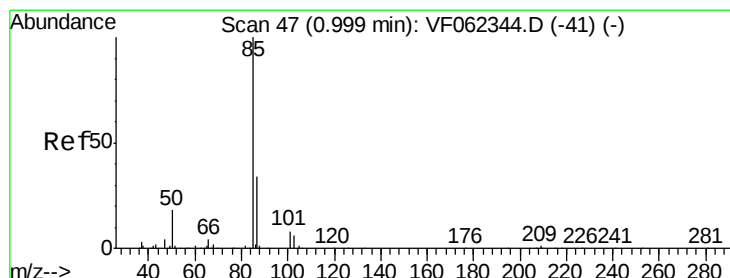
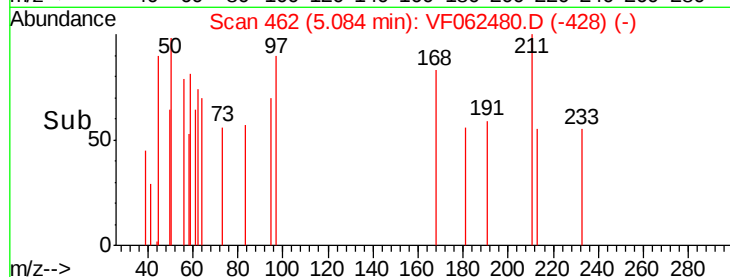
100

50

0

5.00 5.05 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 16.953 ug/l

RT: 0.83 min Scan# 30

Delta R.T. -0.17 min

Lab File: VF062480.D

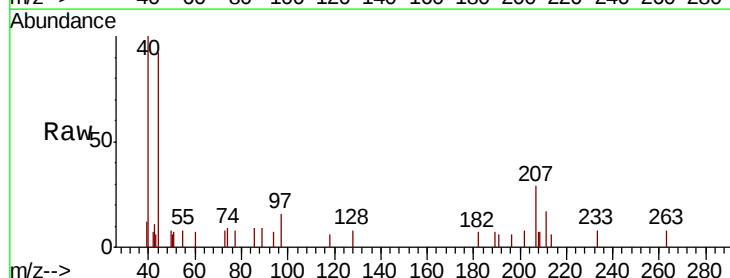
Acq: 12 May 2019 1:59

Tgt Ion: 85 Resp: 93

Ion Ratio Lower Upper

85 100

87 0.0 16.8 50.4#



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

0.83

150

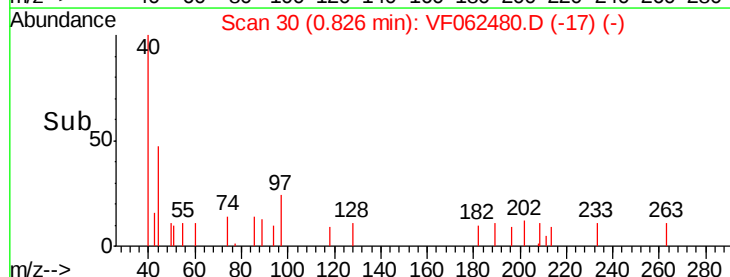
100

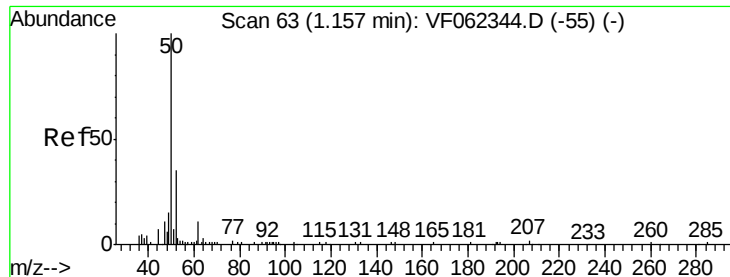
50

0

0.80 0.82 0.84 0.86

Time-->





#3

Chloromethane

Concen: 38.972 ug/l

RT: 1.21 min Scan# 69

Delta R.T. 0.05 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

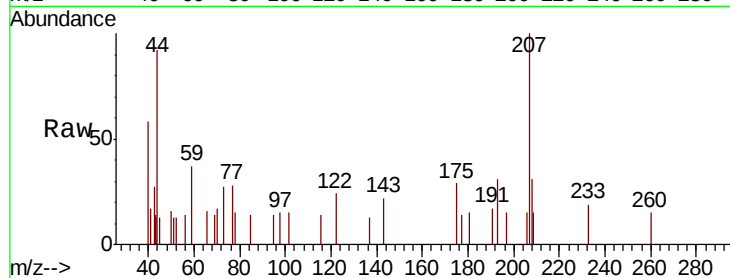
P021-SS003-1824-01

Tot Ion: 50 Resp: 141

Ion Ratio Lower Upper

50 100

52 77.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0

1.21

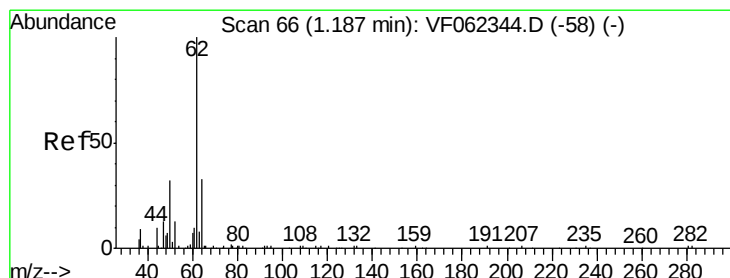
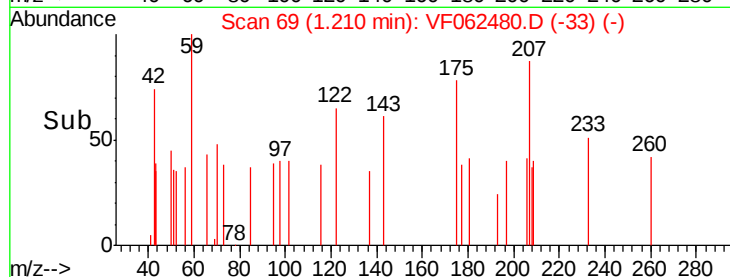
100

50

0

1.16 1.18 1.20 1.22 1.24

Time-->



#4

Vinyl Chloride

Concen: 24.385 ug/l

RT: 1.05 min Scan# 53

Delta R.T. -0.13 min

Lab File: VF062480.D

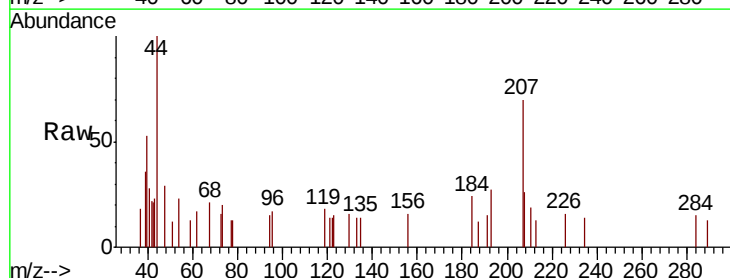
Acq: 12 May 2019 1:59

Tgt Ion: 62 Resp: 88

Ion Ratio Lower Upper

62 100

64 0.0 26.1 39.1#



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 63.90 (63.60 to 64.60): VF0

1.05

150

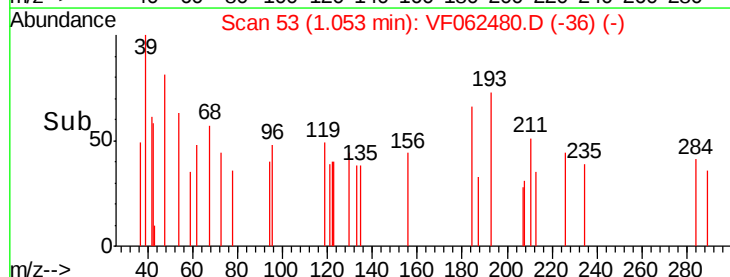
100

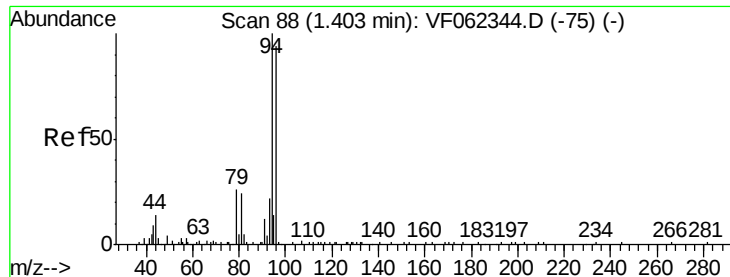
50

0

1.02 1.04 1.06 1.08

Time-->





#5

Bromomethane

Concen: 54.968 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

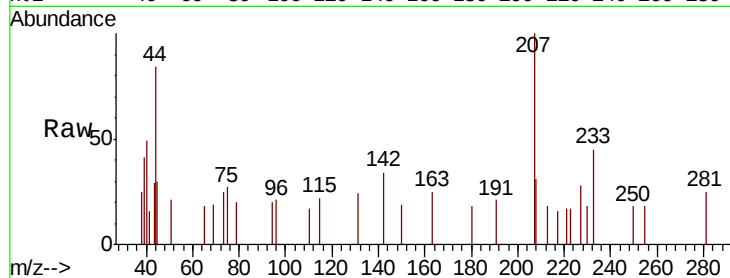
P021-SS003-1824-01

Tot Ion: 94 Resp: 149

Ion Ratio Lower Upper

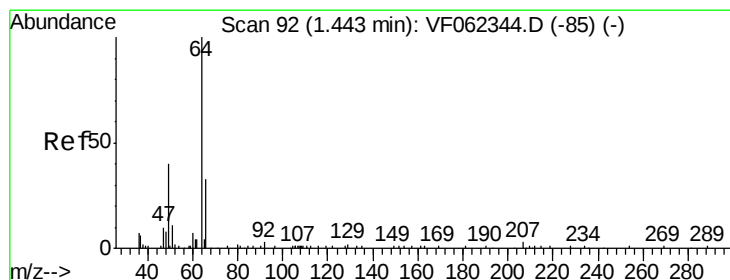
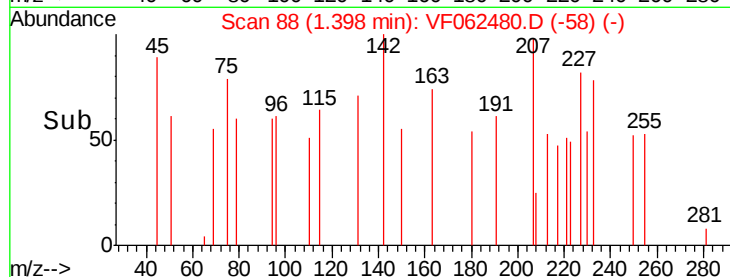
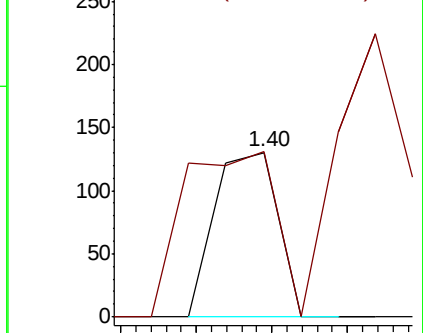
94 100

96 6.9 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



#6

Chloroethane

Concen: 35.826 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062480.D

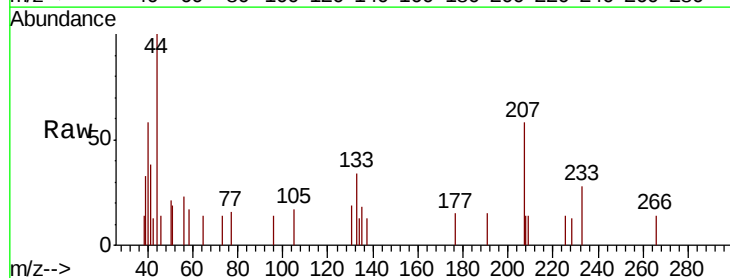
Acq: 12 May 2019 1:59

Tgt Ion: 64 Resp: 65

Ion Ratio Lower Upper

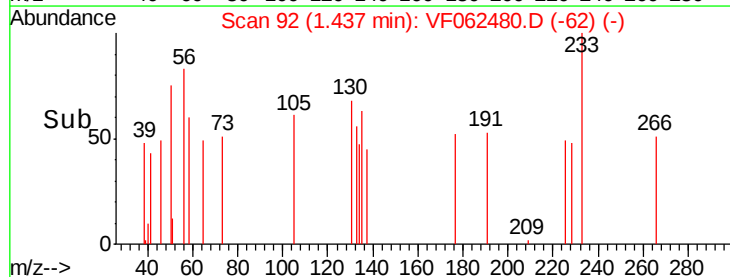
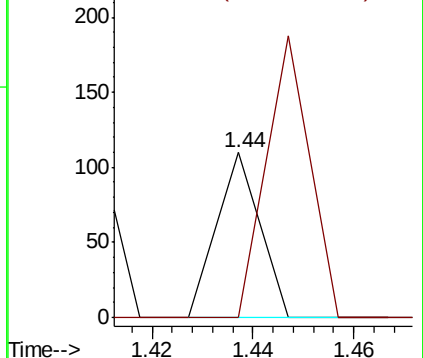
64 100

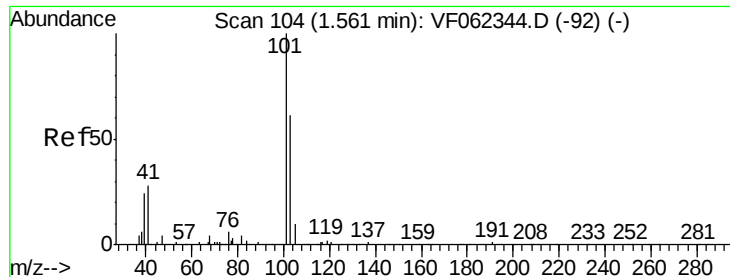
66 0.0 26.6 39.8#



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0



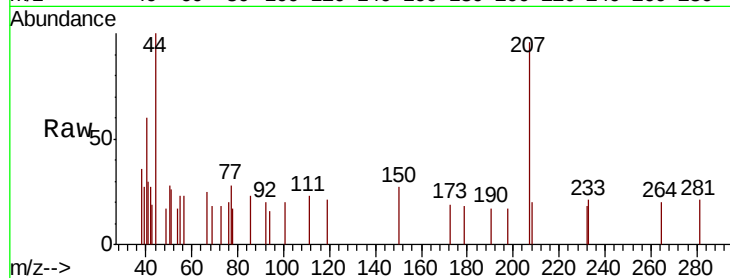


#7

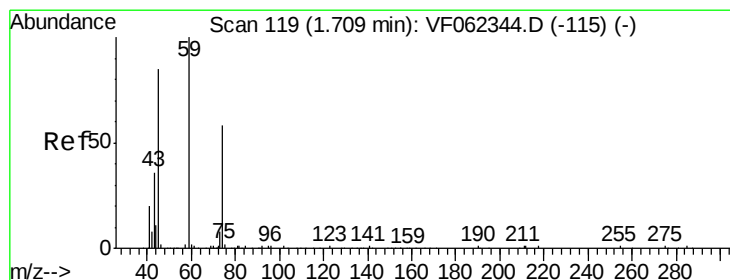
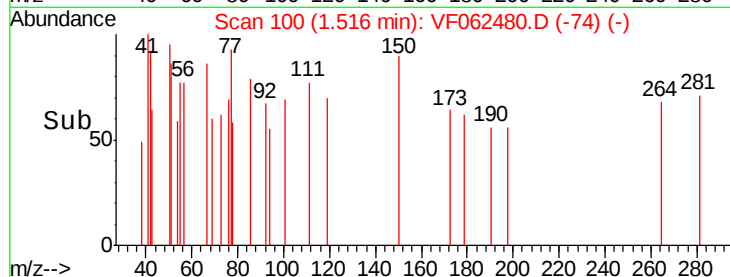
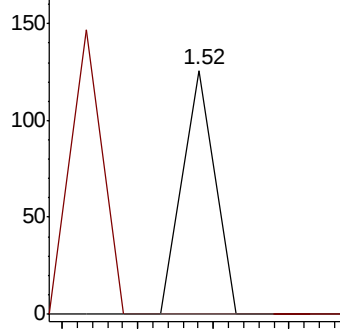
Trichlorofluoromethane  
Concen: 10.017 ug/l  
RT: 1.52 min Scan# 100  
Delta R.T. -0.05 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

Tot Ion:101 Resp: 75  
Ion Ratio Lower Upper  
101 100  
103 0.0 48.5 72.7#



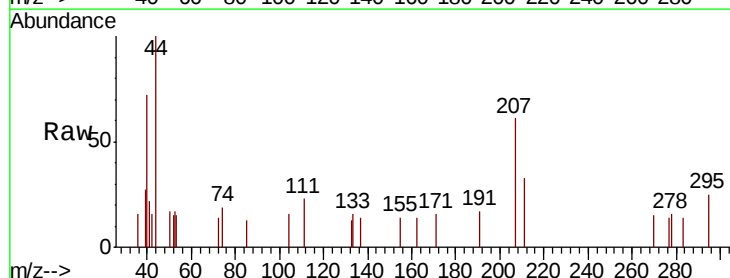
Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 102.80 (102.50 to 103.50): V



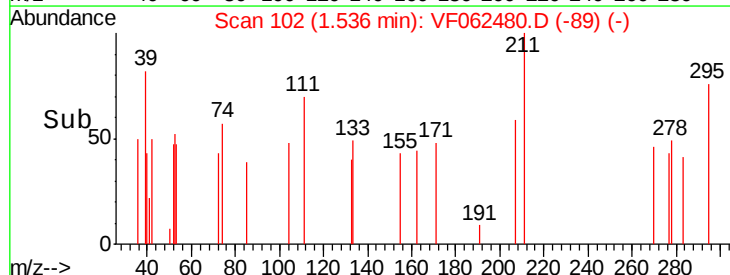
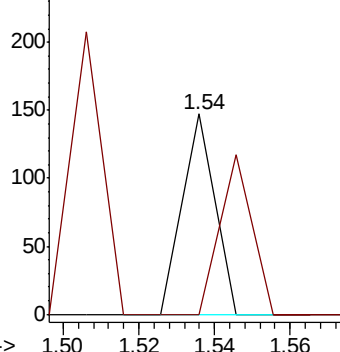
#8

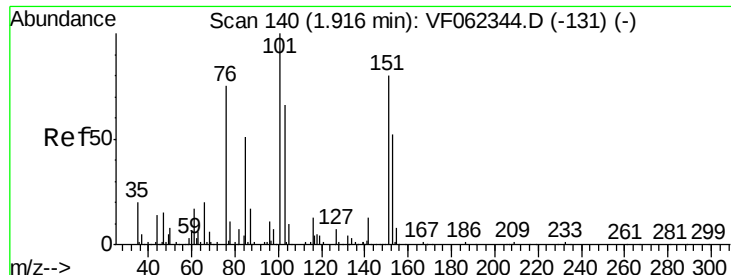
Diethyl Ether  
Concen: 76.791 ug/l  
RT: 1.54 min Scan# 102  
Delta R.T. -0.17 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Tgt Ion: 74 Resp: 87  
Ion Ratio Lower Upper  
74 100  
45 79.3 73.9 221.6



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: 44.213 ug/l

RT: 2.04 min Scan# 153

Delta R.T. 0.12 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

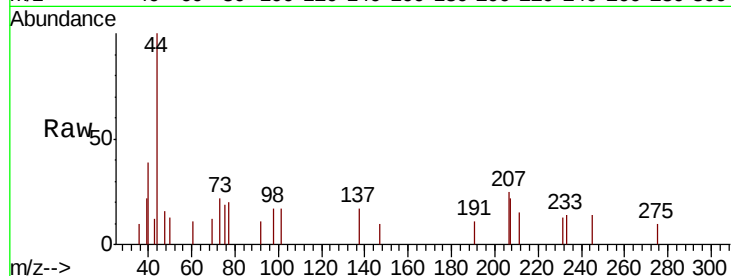
Tot Ion:101 Resp: 189

Ion Ratio Lower Upper

101 100

85 0.0 39.5 59.3#

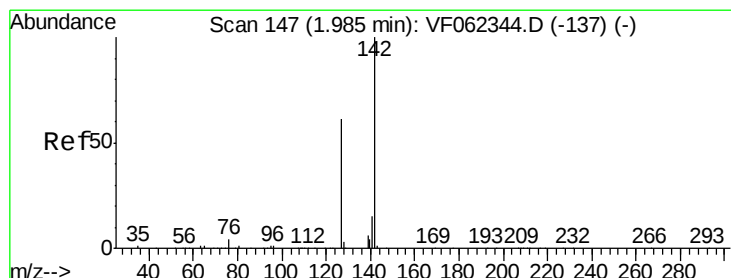
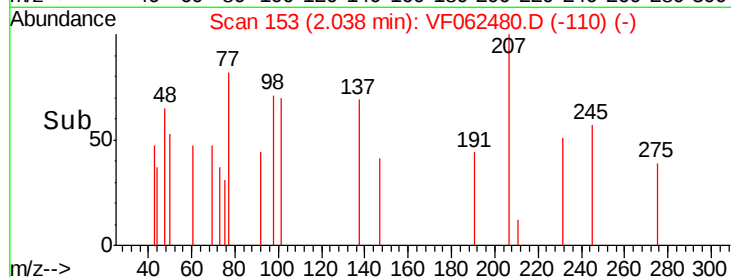
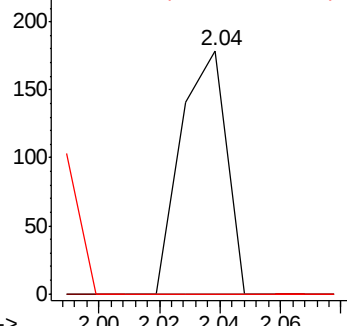
151 0.0 59.9 89.9#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 8.517 ug/l

RT: 2.08 min Scan# 157

Delta R.T. 0.09 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

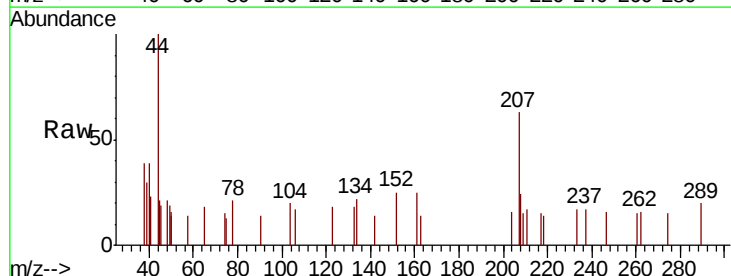
Tgt Ion:142 Resp: 60

Ion Ratio Lower Upper

142 100

127 0.0 48.4 72.6#

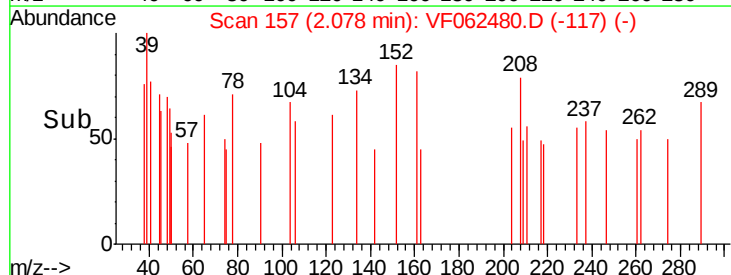
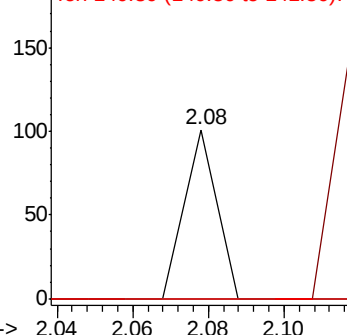
141 0.0 12.2 18.4#

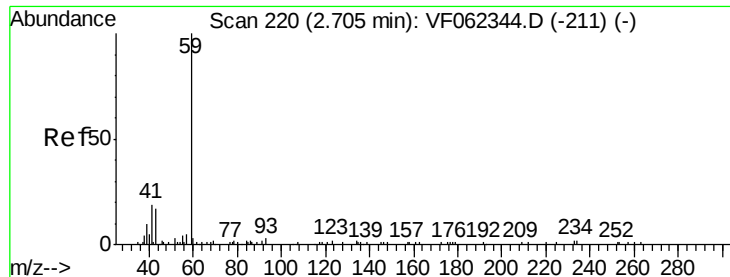


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



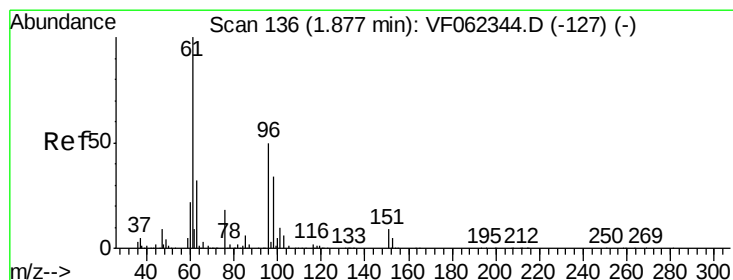
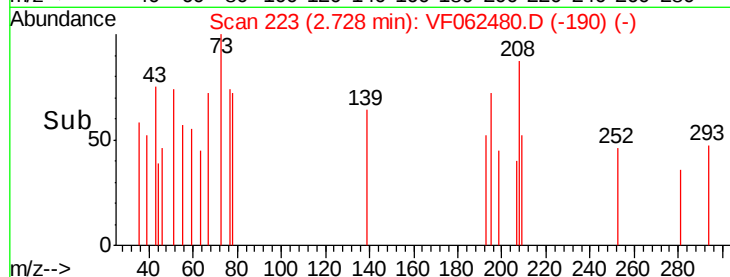
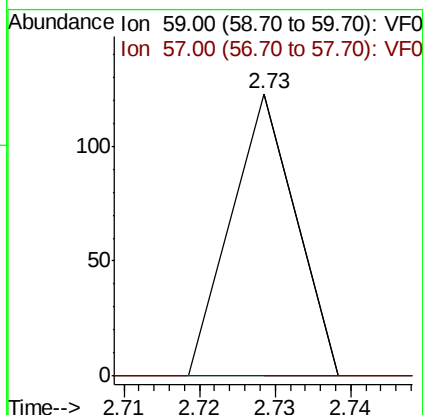
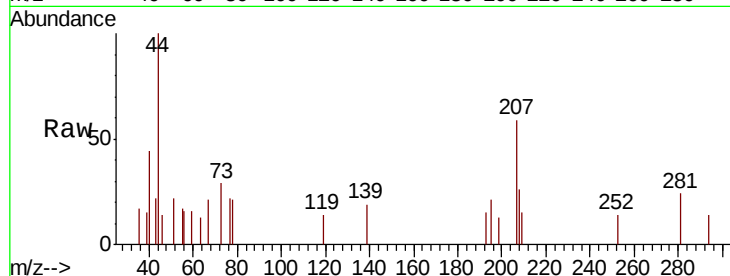


#11

Tert butyl alcohol  
Concen: 288.345 ug/l  
RT: 2.73 min Scan# 223  
Delta R.T. 0.02 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

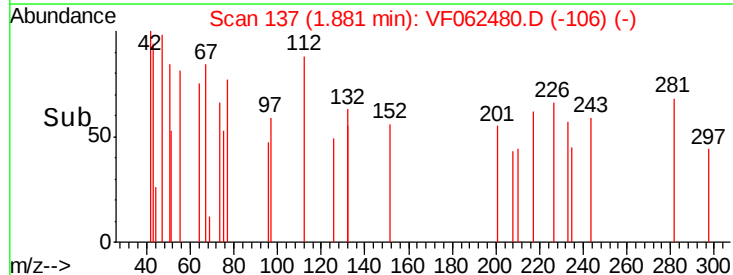
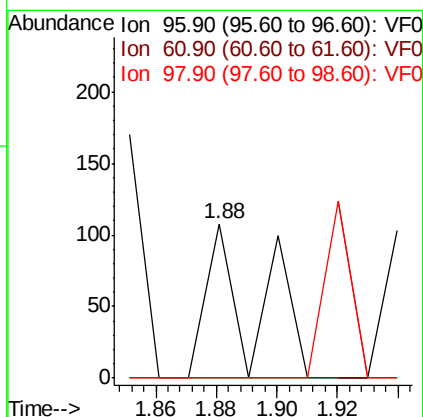
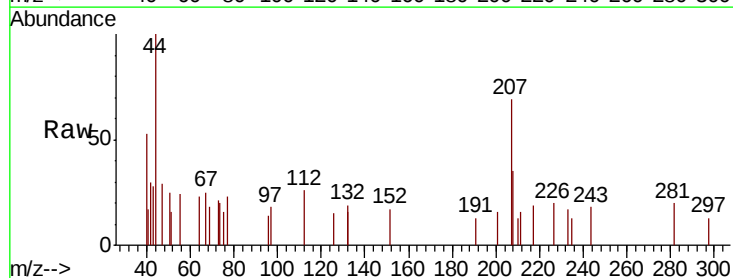
Tot Ion: 59 Resp: 73  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.3 13.9#

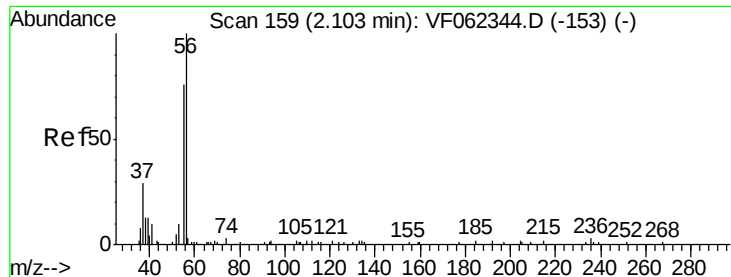


#12

1,1-Dichloroethene  
Concen: 33.846 ug/l  
RT: 1.88 min Scan# 137  
Delta R.T. 0.00 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Tgt Ion: 96 Resp: 123  
Ion Ratio Lower Upper  
96 100  
61 0.0 163.2 244.8#  
98 0.0 55.2 82.8#





#13

Acrolein

Concen: 716.784 ug/l

RT: 2.15 min Scan# 164

Delta R.T. 0.04 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

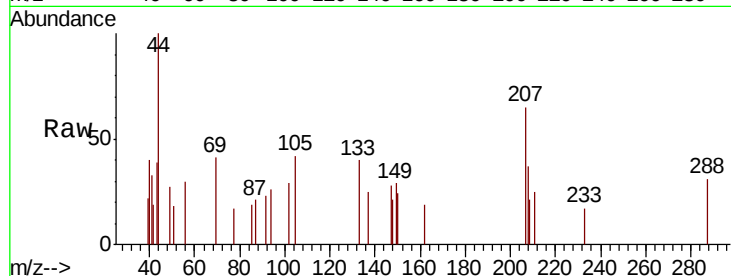
P021-SS003-1824-01

Tot Ion: 56 Resp: 106

Ion Ratio Lower Upper

56 100

55 144.3 58.4 87.6#



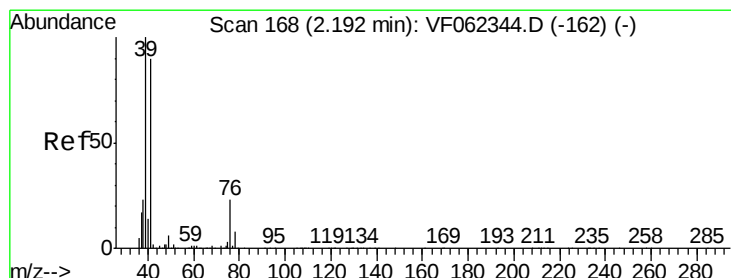
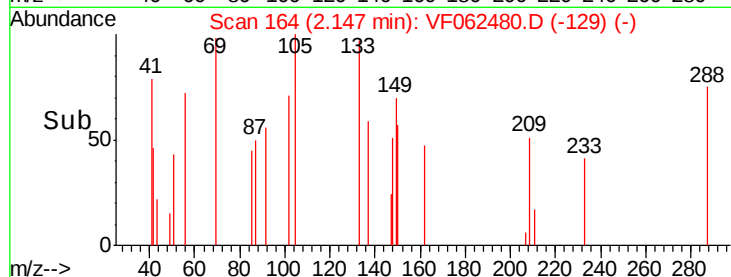
Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.15

2.12 2.14 2.16 2.18

Time-->



#14

Allyl chloride

Concen: 98.436 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.01 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

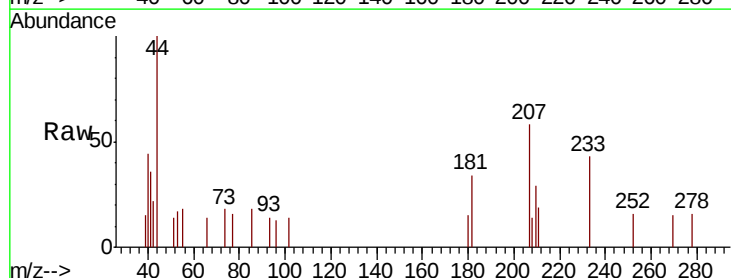
Tgt Ion: 41 Resp: 316

Ion Ratio Lower Upper

41 100

39 133.2 90.8 136.2

76 0.0 22.2 33.4#



Abundance Ion 41.00 (40.70 to 41.70): VF0

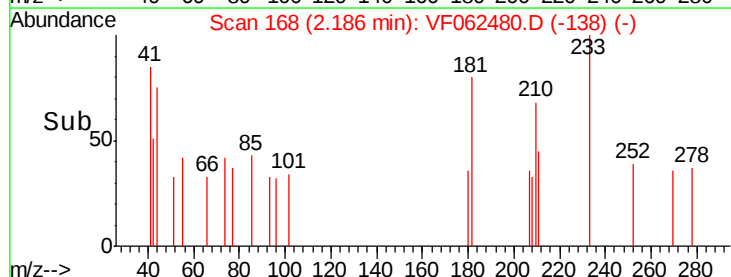
Ion 39.00 (38.70 to 39.70): VF0

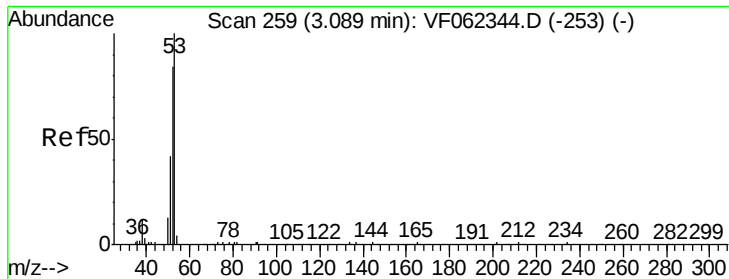
Ion 75.90 (75.60 to 76.60): VF0

2.19

2.16 2.18 2.20 2.22

Time-->





#15

Acrylonitrile

Concen: 204.351 ug/l

RT: 3.11 min Scan# 262

Delta R.T. 0.02 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

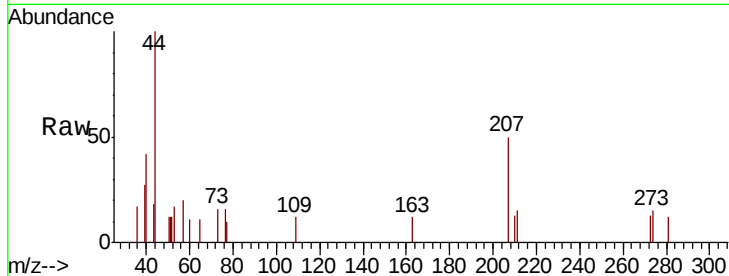
Tot Ion: 53 Resp: 98

Ion Ratio Lower Upper

53 100

52 71.4 77.2 115.8#

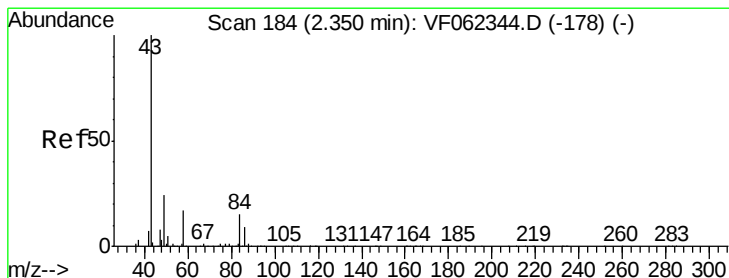
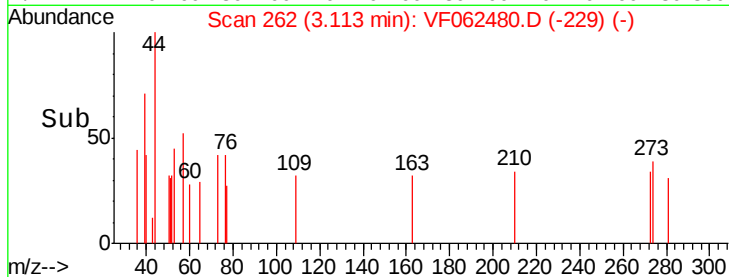
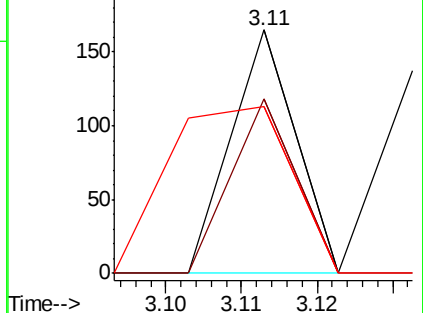
51 131.6 40.6 61.0#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 257.126 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062480.D

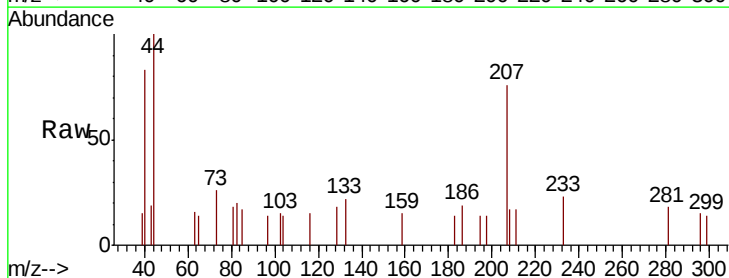
Acq: 12 May 2019 1:59

Tgt Ion: 43 Resp: 233

Ion Ratio Lower Upper

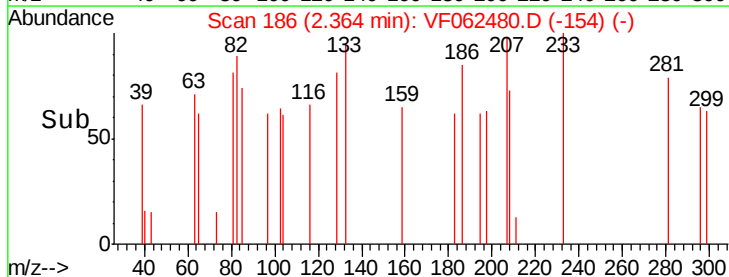
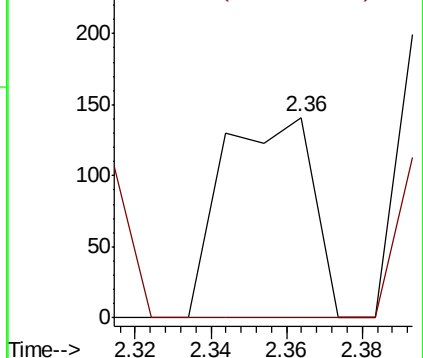
43 100

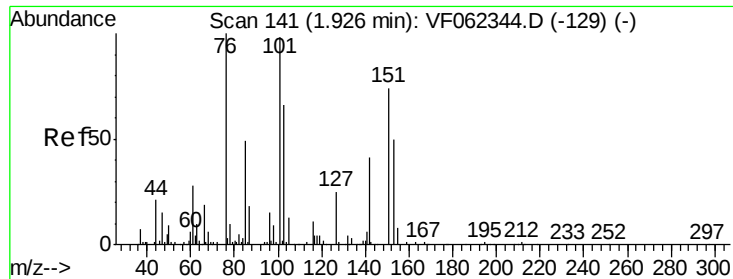
58 0.0 13.1 19.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

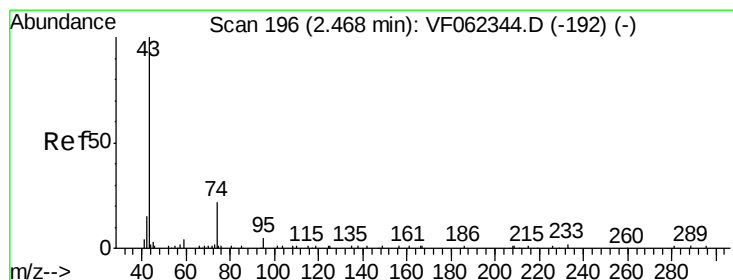
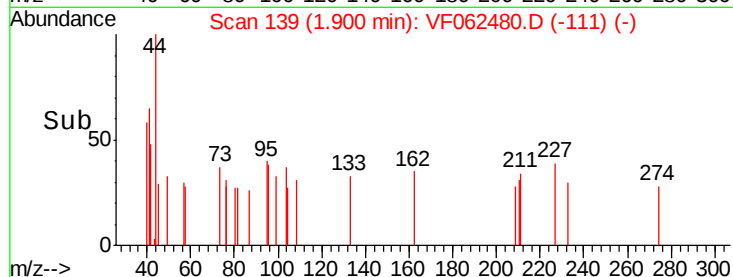
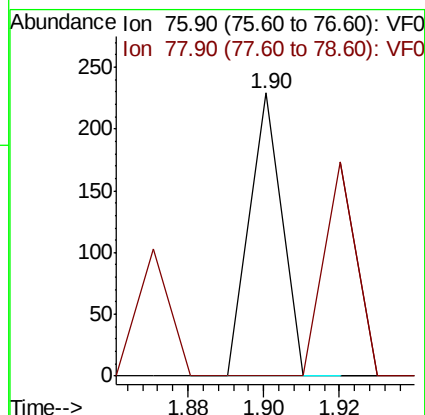
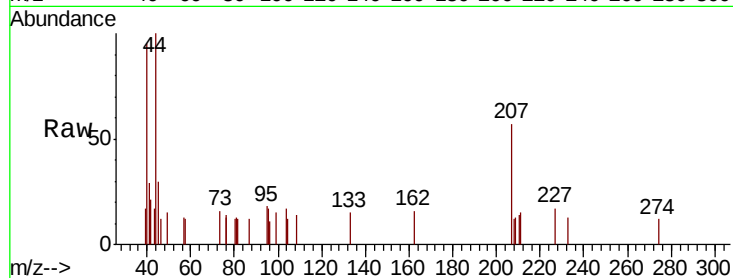




#17  
Carbon Disulfide  
Concen: 17.037 ug/l  
RT: 1.90 min Scan# 139  
Delta R.T. -0.03 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

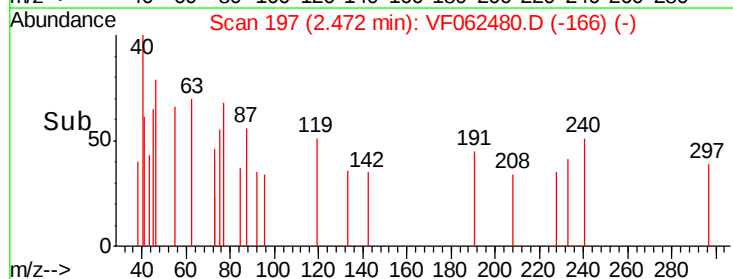
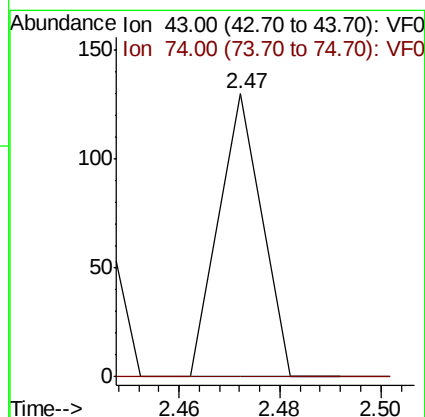
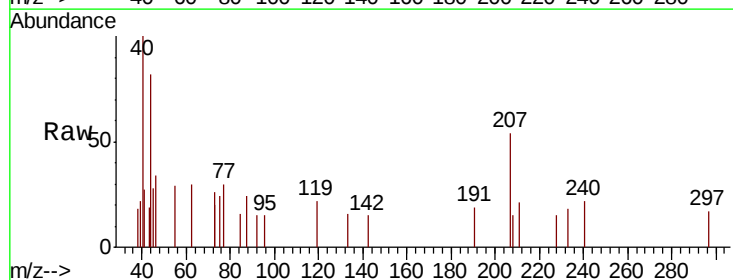
Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

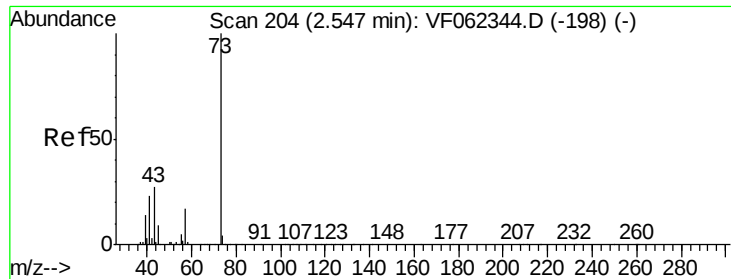
Tot Ion: 76 Resp: 135  
Ion Ratio Lower Upper  
76 100  
78 0.0 9.0 13.4#



#18  
Methyl Acetate  
Concen: 46.367 ug/l  
RT: 2.47 min Scan# 197  
Delta R.T. 0.00 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Tgt Ion: 43 Resp: 77  
Ion Ratio Lower Upper  
43 100  
74 0.0 15.0 22.4#



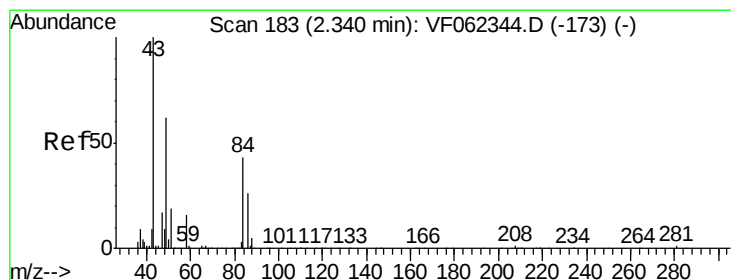
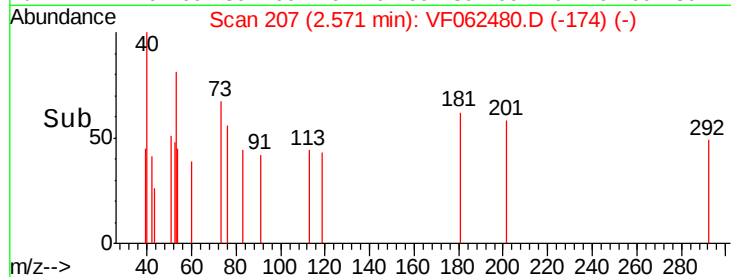
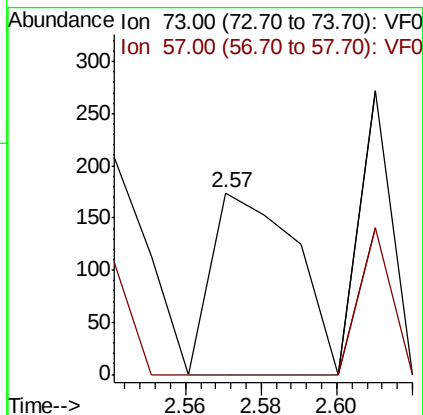
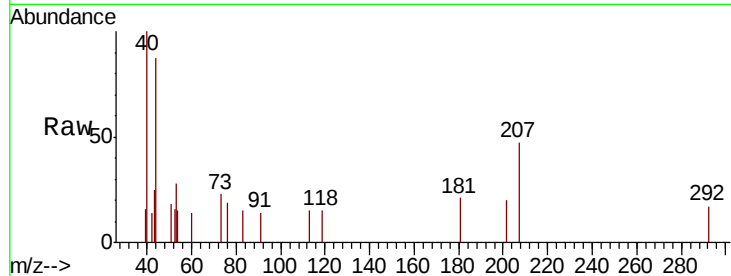


#19

Methyl tert-butyl Ether  
 Concen: 35.592 ug/l  
 RT: 2.57 min Scan# 207  
 Delta R.T. 0.02 min  
 Lab File: VF062480.D  
 Acq: 12 May 2019 1:59

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P021-SS003-1824-01

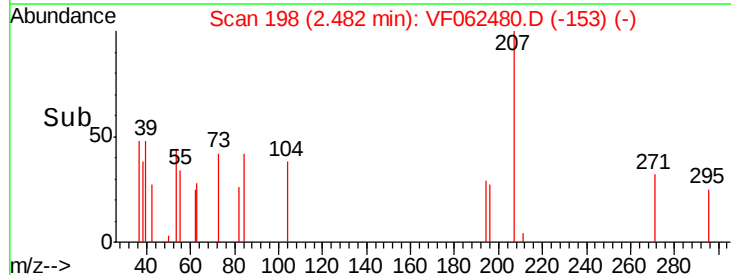
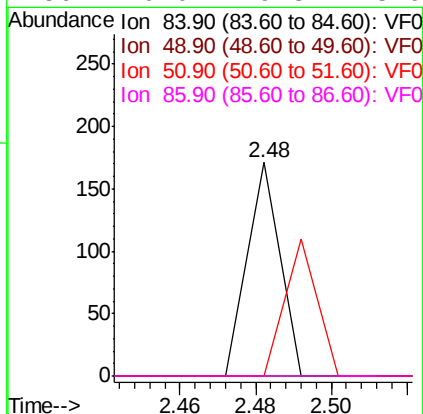
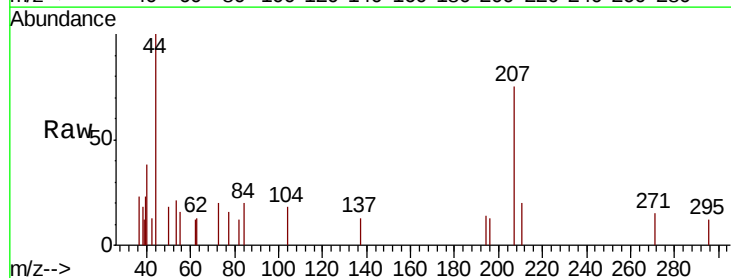
Tot Ion: 73 Resp: 267  
 Ion Ratio Lower Upper  
 73 100  
 57 0.0 13.7 20.5#

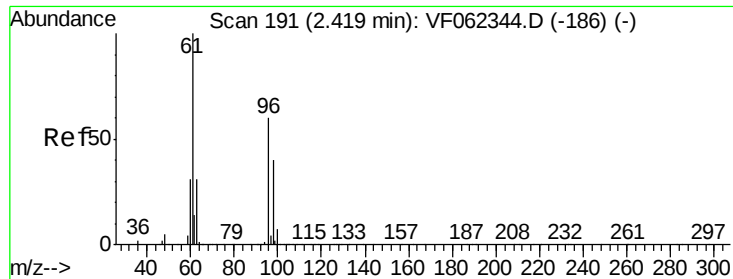


#20

Methylene Chloride  
 Concen: 30.807 ug/l  
 RT: 2.48 min Scan# 198  
 Delta R.T. 0.14 min  
 Lab File: VF062480.D  
 Acq: 12 May 2019 1:59

Tgt Ion: 84 Resp: 101  
 Ion Ratio Lower Upper  
 84 100  
 49 0.0 117.5 176.3#  
 51 0.0 37.0 55.4#  
 86 0.0 49.3 73.9#





#21

trans-1,2-Dichloroethene

Concen: 52.564 ug/l

RT: 2.41 min Scan# 191

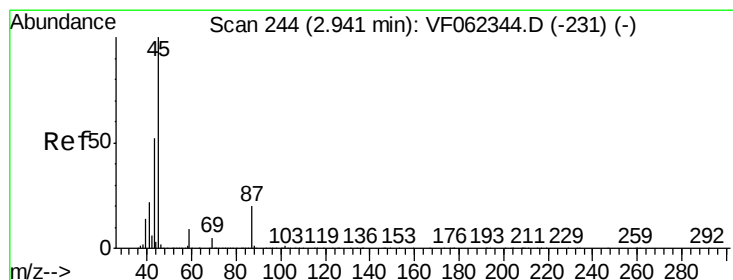
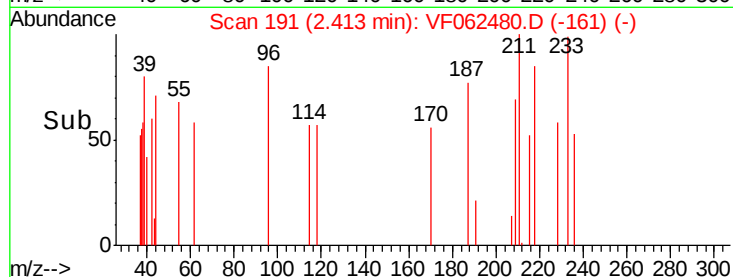
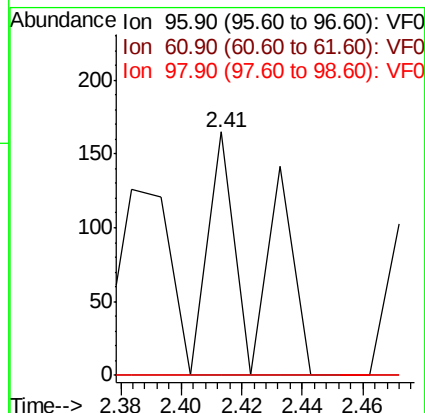
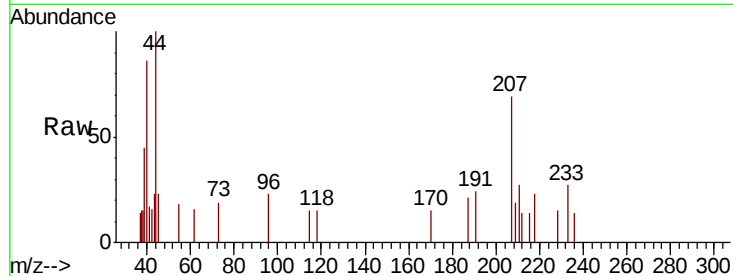
Delta R.T. -0.01 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 182    |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 0.0   | 133.2 | 199.8# |
| 98       | 0.0   | 53.1  | 79.7#  |



#22

Diisopropyl ether

Concen: 27.010 ug/l

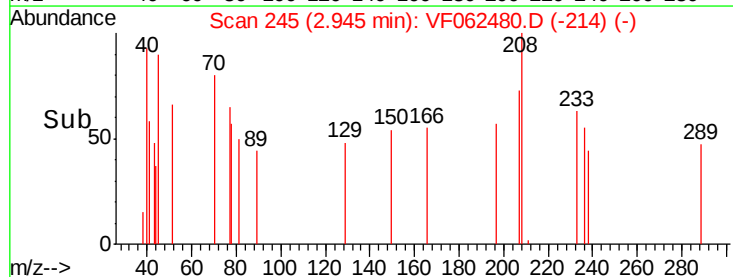
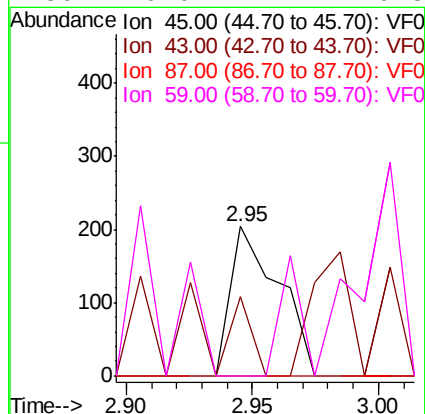
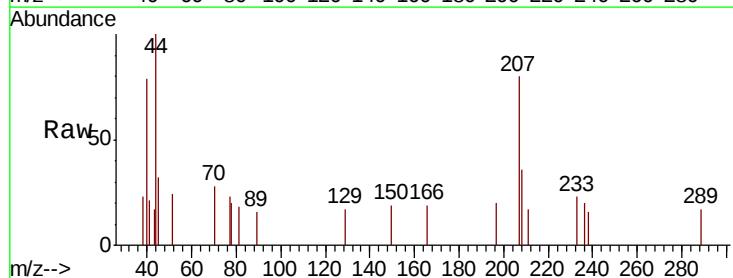
RT: 2.95 min Scan# 245

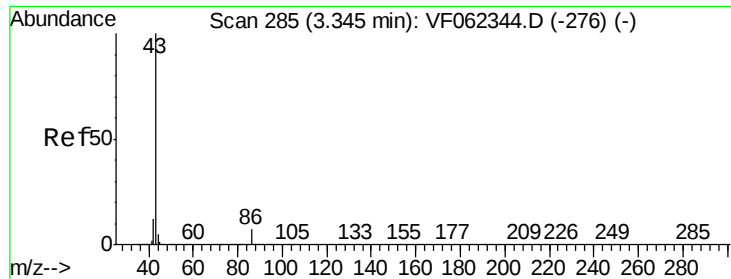
Delta R.T. 0.00 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 271   |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 0.0   | 41.4  | 62.0# |
| 87       | 0.0   | 15.8  | 23.6# |
| 59       | 0.0   | 7.2   | 10.8# |





#23

Vinyl Acetate

Concen: 15.430 ug/l

RT: 3.38 min Scan# 289

Delta R.T. 0.03 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

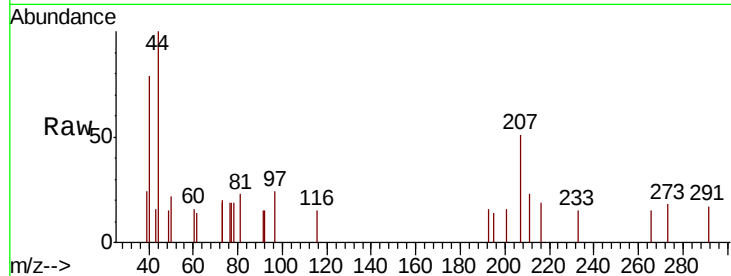
P021-SS003-1824-01

Tot Ion: 43 Resp: 69

Ion Ratio Lower Upper

43 100

86 0.0 5.7 8.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

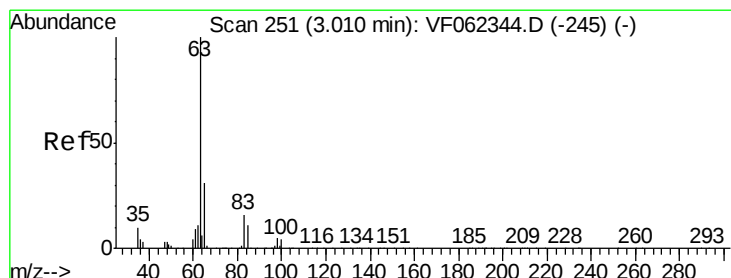
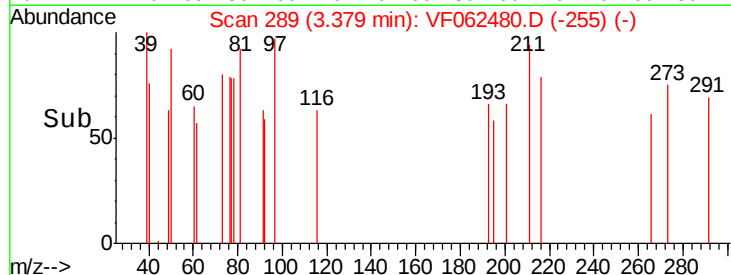
3.38

100

50

0

Time-->



#24

1,1-Dichloroethane

Concen: 10.554 ug/l

RT: 2.94 min Scan# 244

Delta R.T. -0.07 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

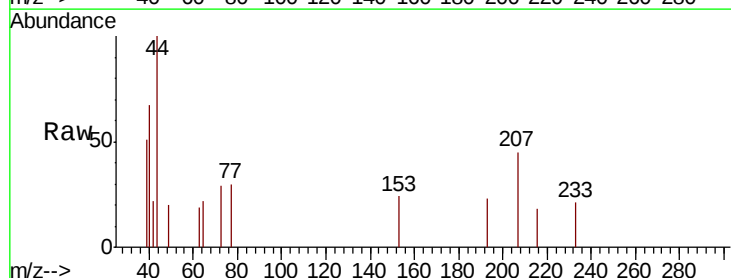
Tgt Ion: 63 Resp: 64

Ion Ratio Lower Upper

63 100

98 0.0 2.6 8.0#

100 0.0 1.8 5.4#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0

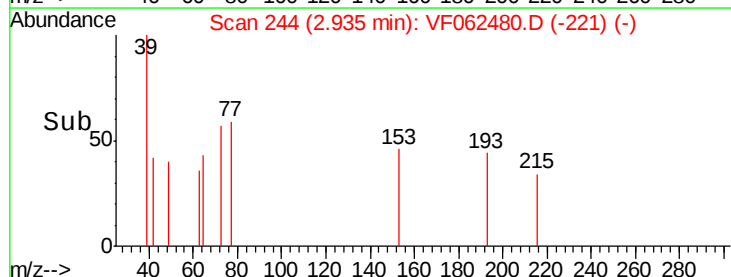
150

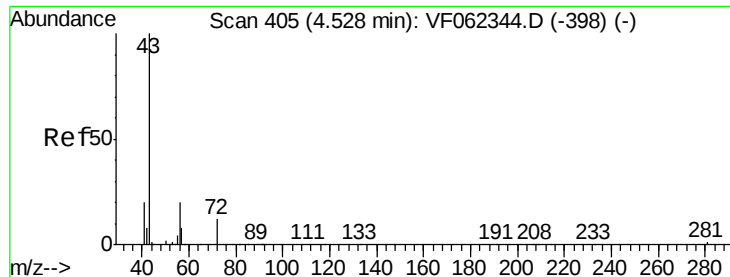
100

50

0

Time-->





#25

2-Butanone

Concen: 230.138 ug/l

RT: 4.58 min Scan# 411

Delta R.T. 0.05 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

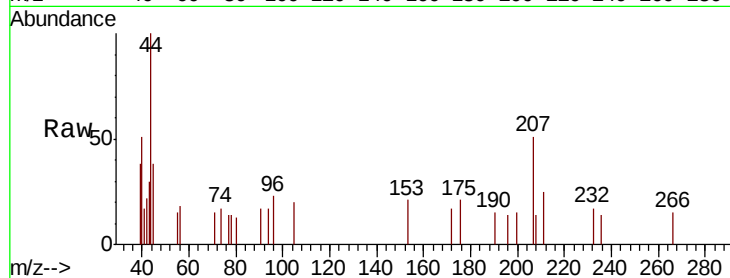
P021-SS003-1824-01

Tot Ion: 43 Resp: 262

Ion Ratio Lower Upper

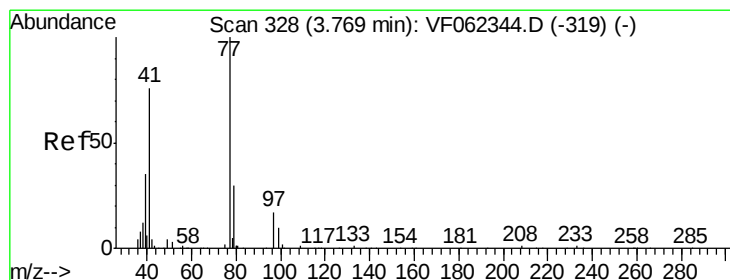
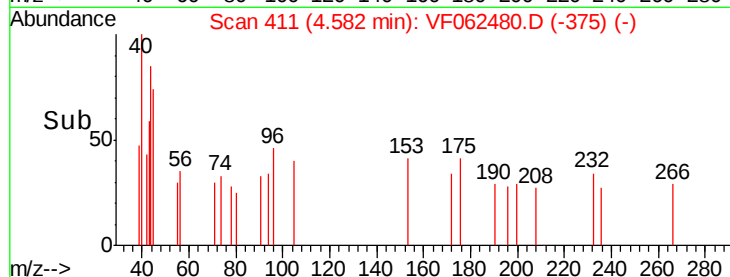
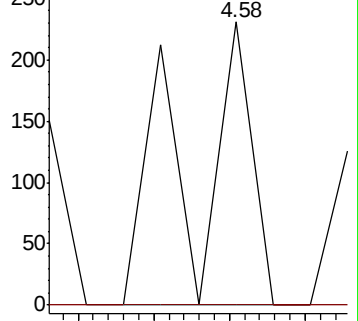
43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 69.987 ug/l

RT: 3.81 min Scan# 333

Delta R.T. 0.04 min

Lab File: VF062480.D

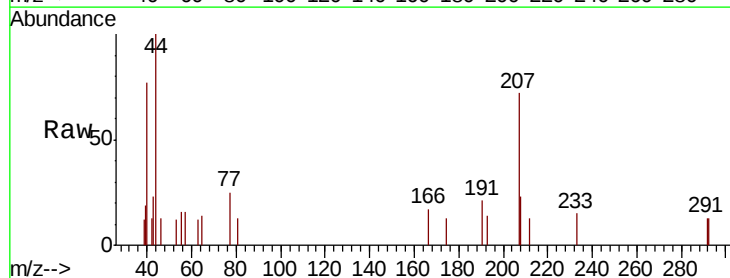
Acq: 12 May 2019 1:59

Tgt Ion: 77 Resp: 237

Ion Ratio Lower Upper

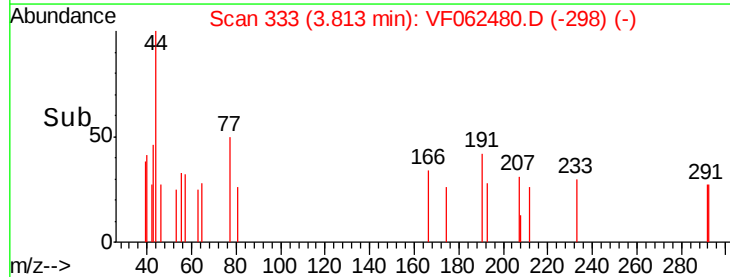
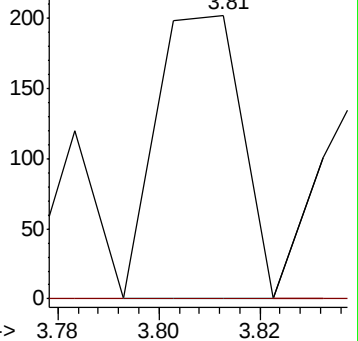
77 100

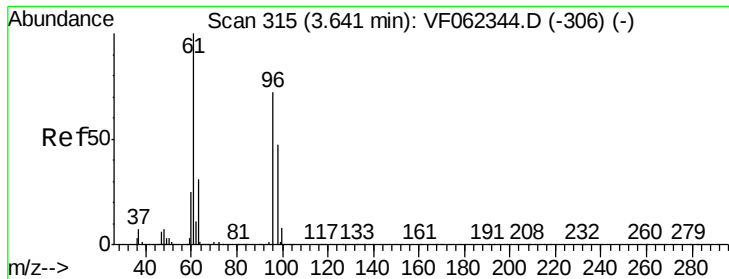
97 0.0 9.5 28.5#



Abundance Ion 76.90 (76.60 to 77.60): VF0

Ion 96.90 (96.60 to 97.60): VF0



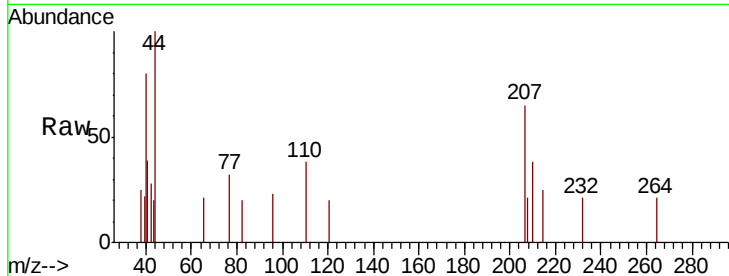


#27

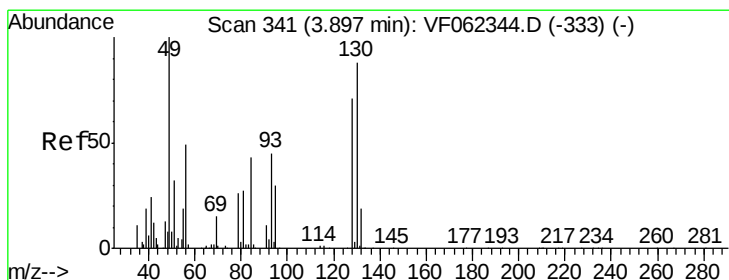
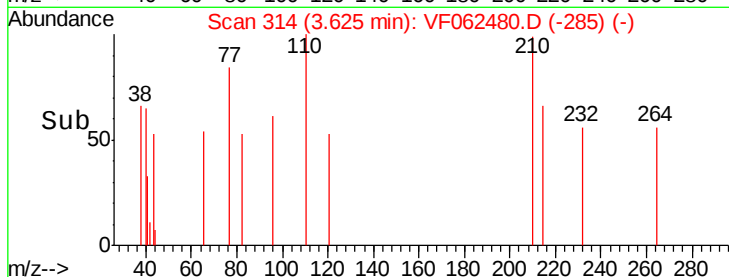
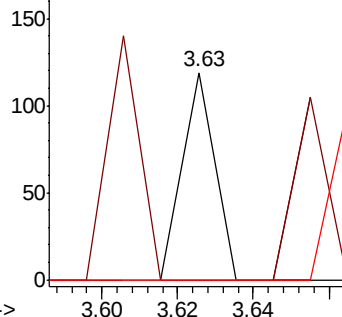
cis-1,2-Dichloroethene  
Concen: 16.174 ug/l  
RT: 3.63 min Scan# 314  
Delta R.T. -0.02 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 118.6 | 0.0   | 263.0 |
| 98      | 0.0   | 0.0   | 130.8 |



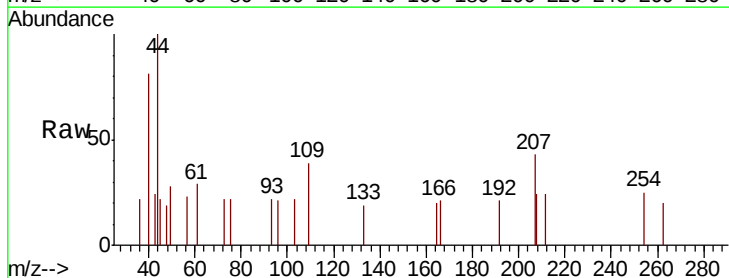
Abundance Ion 95.90 (95.60 to 96.60): VF0  
Ion 60.90 (60.60 to 61.60): VF0  
Ion 97.90 (97.60 to 98.60): VF0



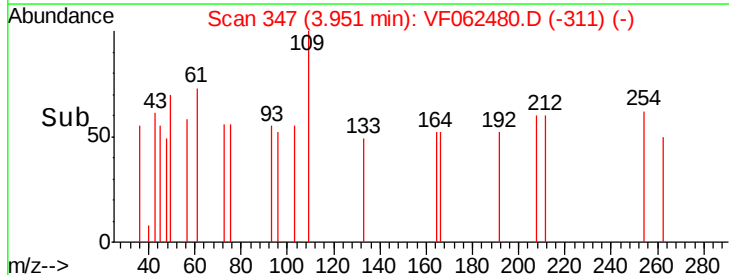
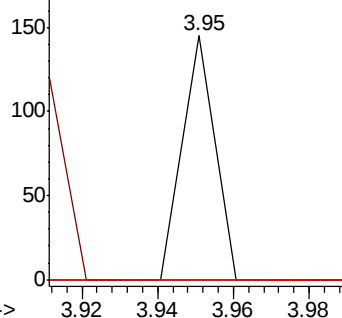
#28

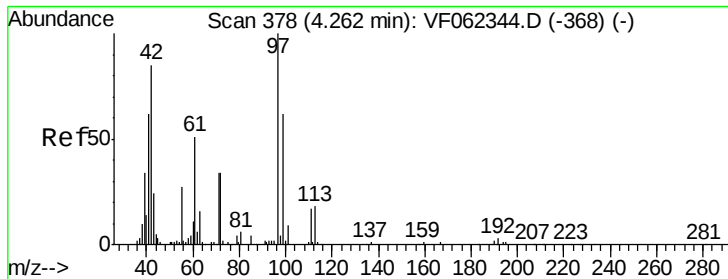
Bromochloromethane  
Concen: 31.272 ug/l  
RT: 3.95 min Scan# 347  
Delta R.T. 0.05 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 49      | 100   |       |        |
| 129     | 0.0   | 0.0   | 2.2    |
| 130     | 0.0   | 79.4  | 119.0# |



Abundance Ion 48.90 (48.60 to 49.60): VF0  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 359.310 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.03 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

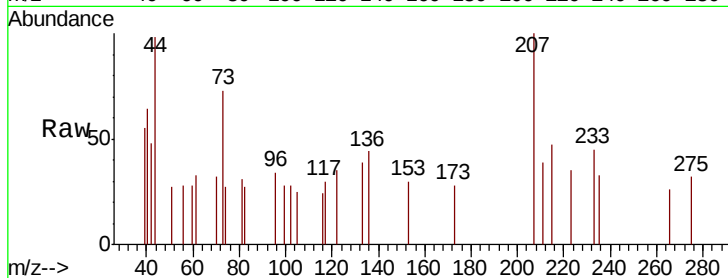
Tot Ion: 42 Resp: 188

Ion Ratio Lower Upper

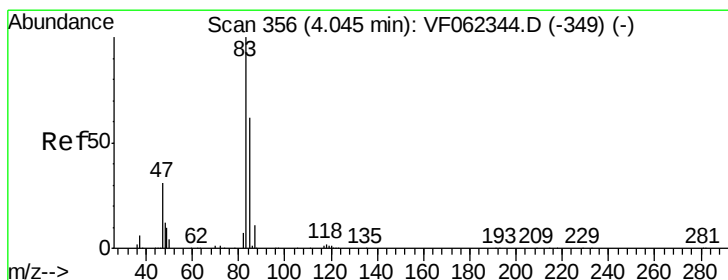
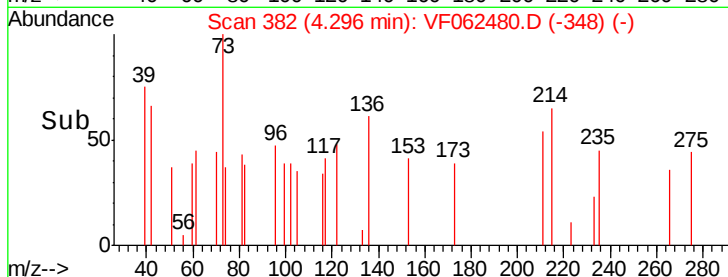
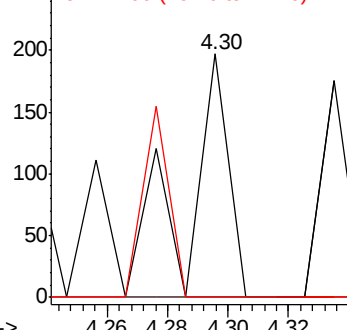
42 100

72 0.0 31.4 47.0#

71 48.9 31.7 47.5#



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



#30

Chloroform

Concen: 13.061 ug/l

RT: 4.09 min Scan# 361

Delta R.T. 0.04 min

Lab File: VF062480.D

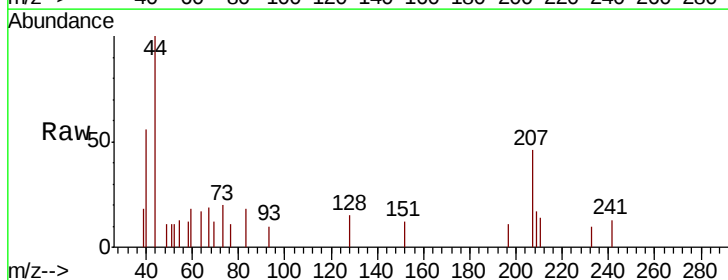
Acq: 12 May 2019 1:59

Tgt Ion: 83 Resp: 107

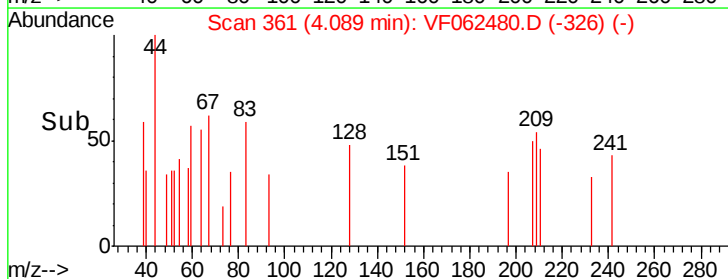
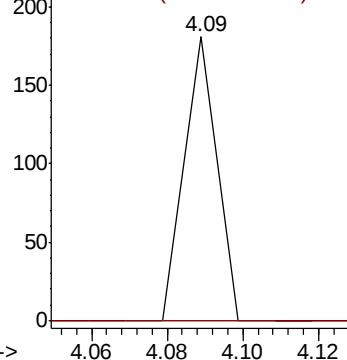
Ion Ratio Lower Upper

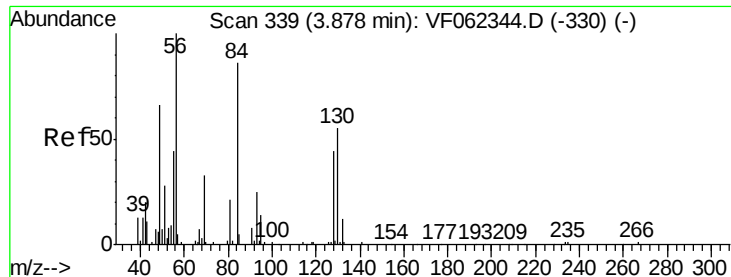
83 100

85 0.0 49.6 74.4#



Abundance Ion 82.90 (82.60 to 83.60): VF0  
Ion 84.90 (84.60 to 85.60): VF0

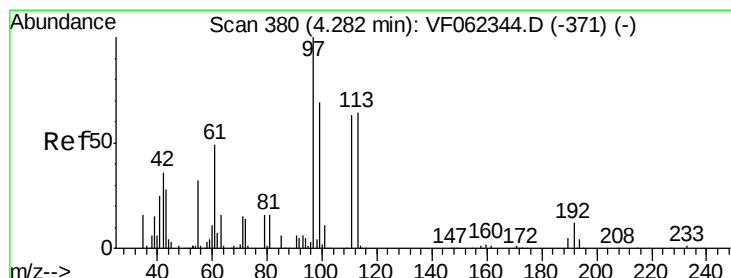
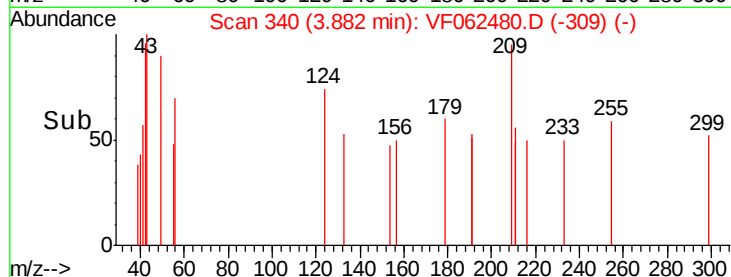
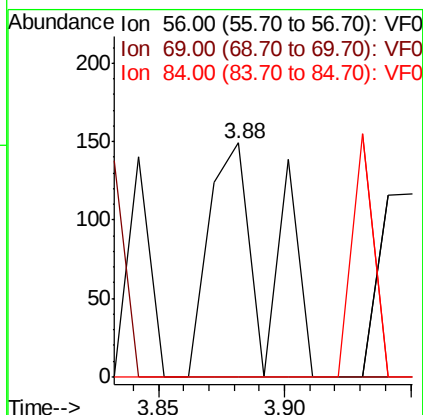
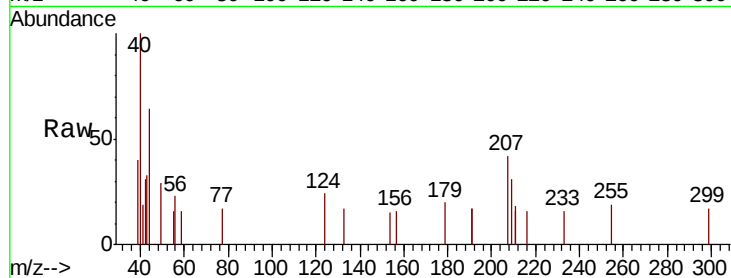




#31  
Cyclohexane  
Concen: 50.412 ug/l  
RT: 3.88 min Scan# 340  
Delta R.T. 0.00 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

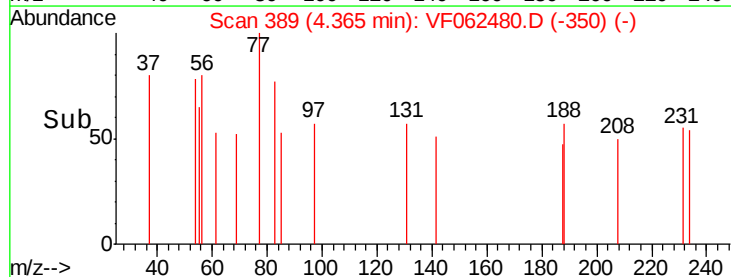
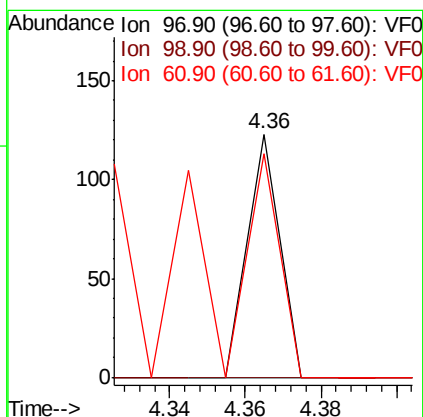
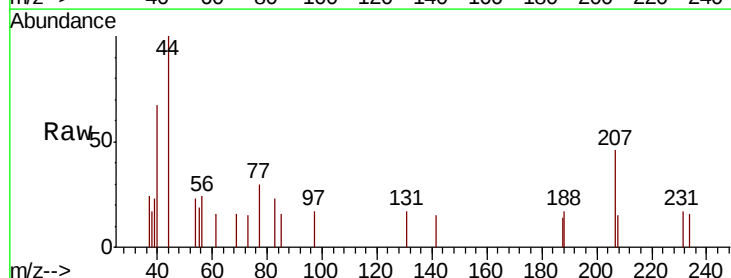
Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

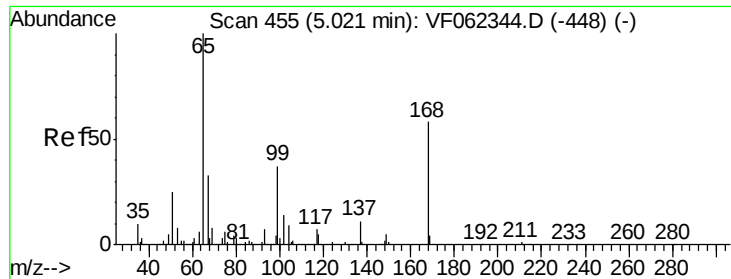
Tot Ion: 56 Resp: 244  
Ion Ratio Lower Upper  
56 100  
69 0.0 26.4 39.6#  
84 0.0 69.0 103.6#



#32  
1,1,1-Trichloroethane  
Concen: 10.397 ug/l  
RT: 4.36 min Scan# 389  
Delta R.T. 0.08 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Tgt Ion: 97 Resp: 73  
Ion Ratio Lower Upper  
97 100  
99 0.0 52.6 78.8#  
61 176.7 39.4 59.0#

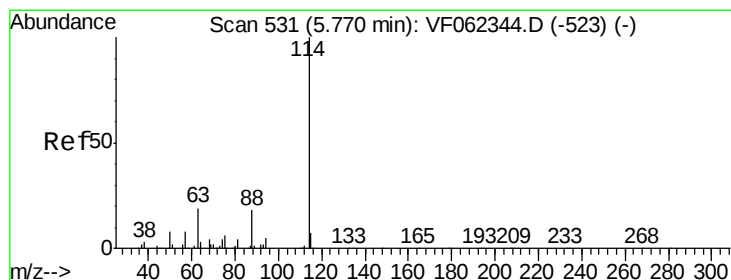
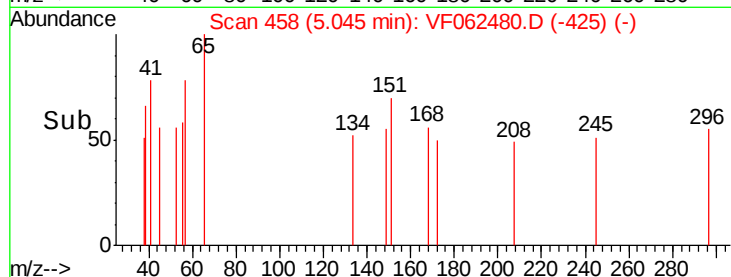
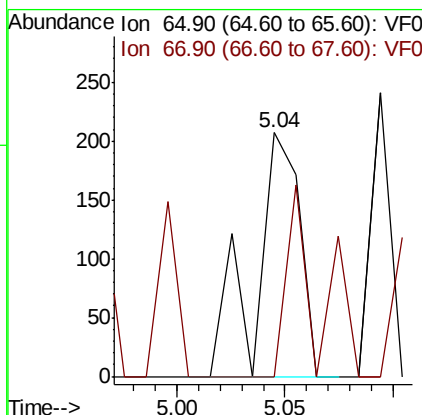
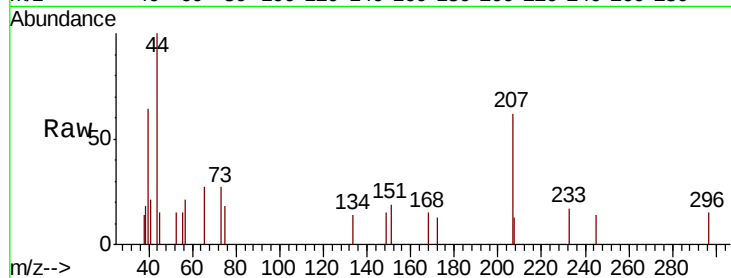




#33  
 1,2-Dichloroethane-d4  
 Concen: 66.079 ug/l  
 RT: 5.04 min Scan# 458  
 Delta R.T. 0.02 min  
 Lab File: VF062480.D  
 Acq: 12 May 2019 1:59

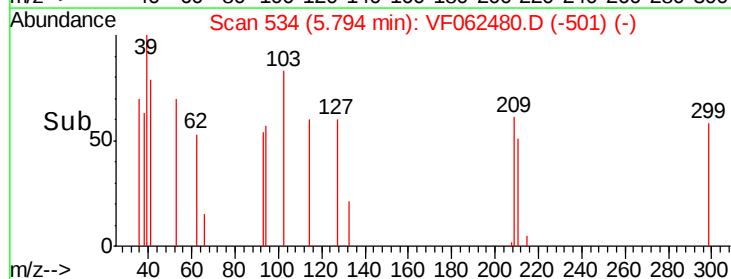
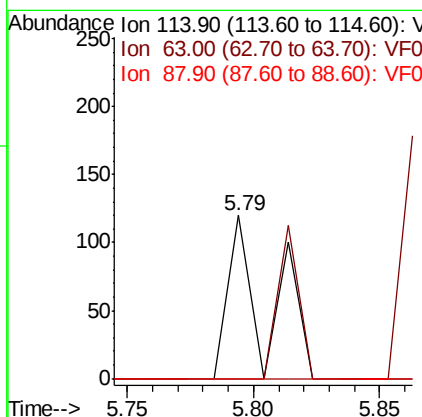
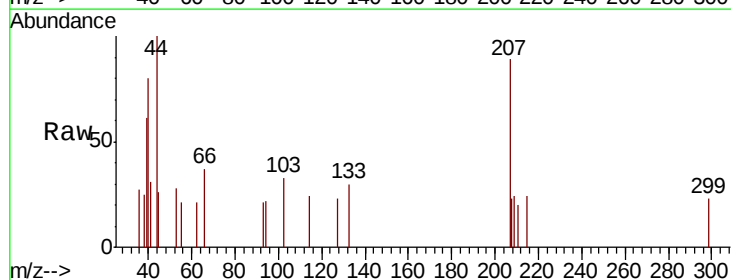
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P021-SS003-1824-01

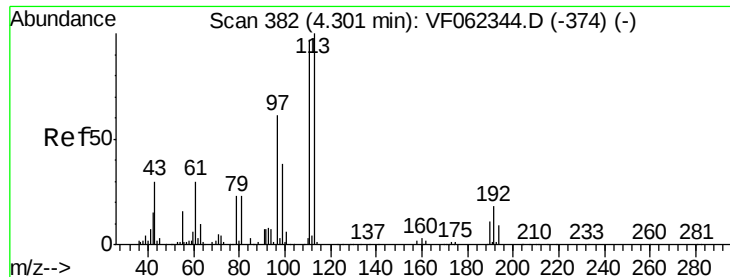
Tot Ion: 65 Resp: 296  
 Ion Ratio Lower Upper  
 65 100  
 67 56.4 0.0 85.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.79 min Scan# 534  
 Delta R.T. 0.02 min  
 Lab File: VF062480.D  
 Acq: 12 May 2019 1:59

Tgt Ion: 114 Resp: 130  
 Ion Ratio Lower Upper  
 114 100  
 63 0.0 0.0 37.4  
 88 0.0 0.0 36.4





#35

Dibromofluoromethane

Concen: 77.243 ug/l

RT: 4.22 min Scan# 374

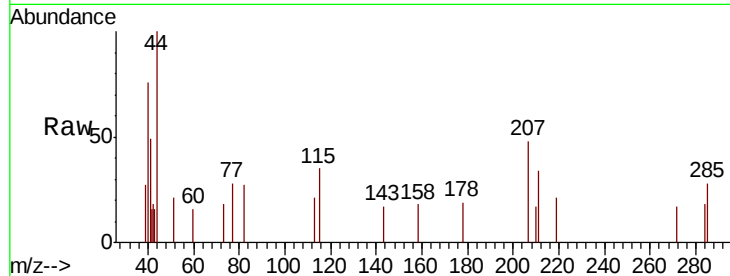
Delta R.T. -0.08 min

Lab File: VF062480.D

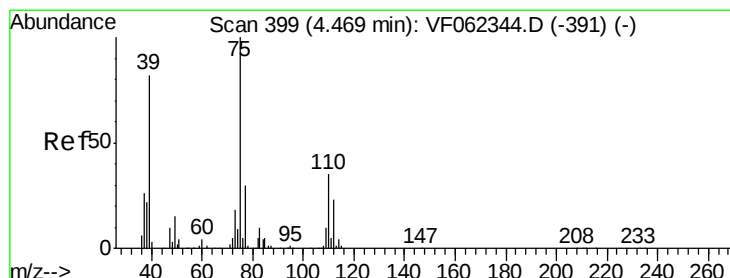
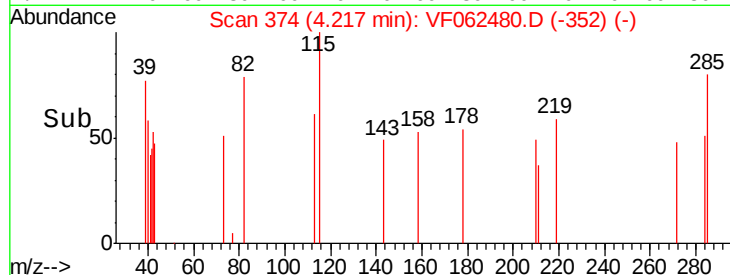
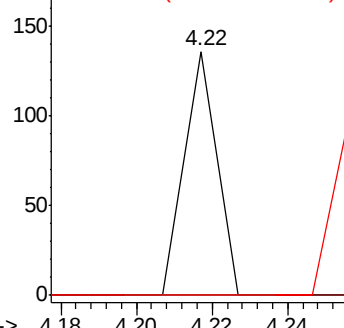
Acq: 12 May 2019 1:59

Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:113 | Resp: | 80          |
| Ion Ratio   | Lower | Upper       |
| 113         | 100   |             |
| 111         | 0.0   | 79.4 119.0# |
| 192         | 0.0   | 16.0 24.0#  |



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 99.396 ug/l

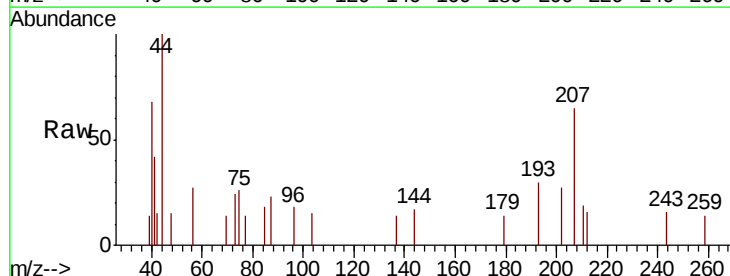
RT: 4.59 min Scan# 412

Delta R.T. 0.12 min

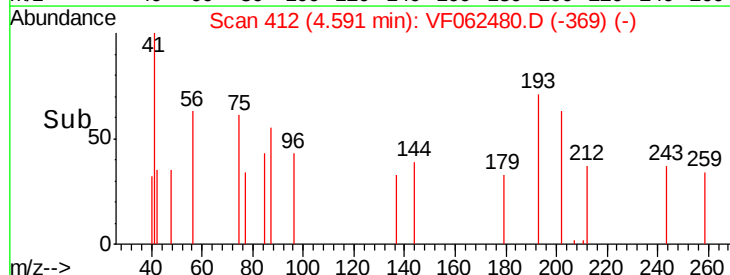
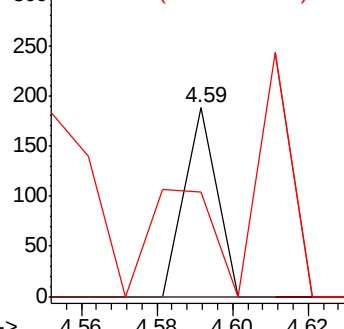
Lab File: VF062480.D

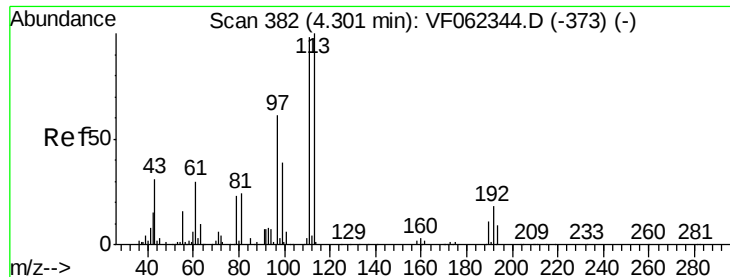
Acq: 12 May 2019 1:59

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 75 | Resp: | 111        |
| Ion Ratio   | Lower | Upper      |
| 75          | 100   |            |
| 110         | 0.0   | 17.2 51.5# |
| 77          | 112.6 | 25.2 37.8# |



Abundance Ion 74.90 (74.60 to 75.60): VF0  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VF0

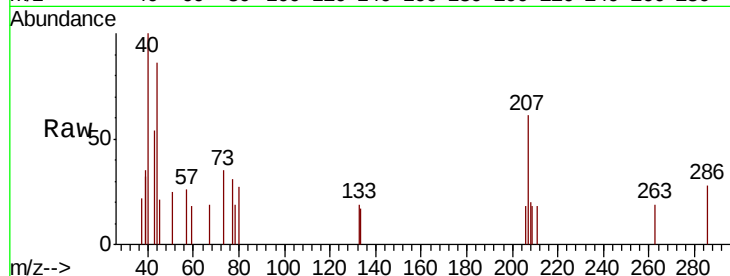




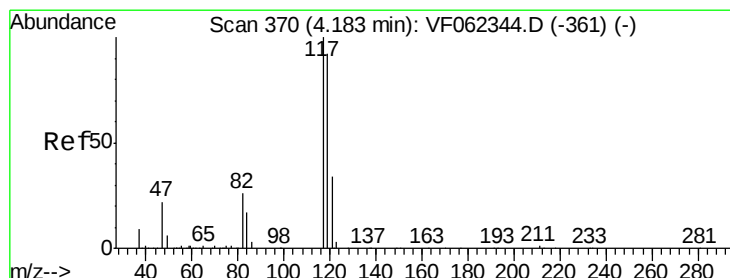
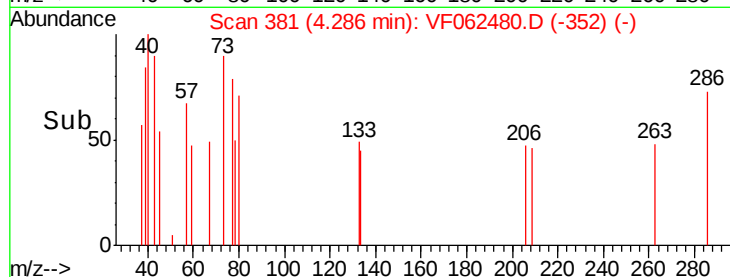
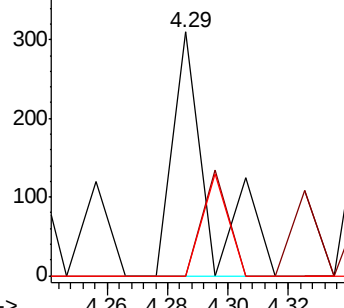
#37  
Ethyl Acetate  
Concen: 654.708 ug/l  
RT: 4.29 min Scan# 381  
Delta R.T. -0.02 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

Tot Ion: 43 Resp: 257  
Ion Ratio Lower Upper  
43 100  
61 31.1 0.0 0.0#  
70 30.0 8.2 12.2#

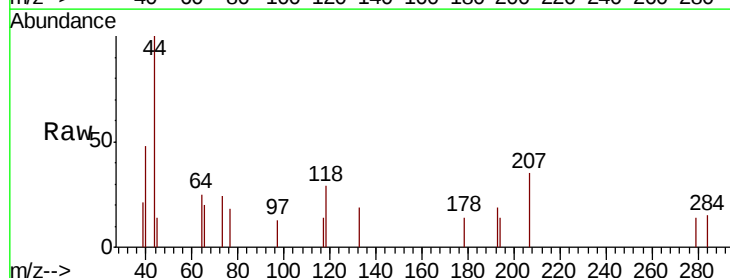


Abundance Ion 43.00 (42.70 to 43.70): VF0  
Ion 60.90 (60.60 to 61.60): VF0  
Ion 70.00 (69.70 to 70.70): VF0

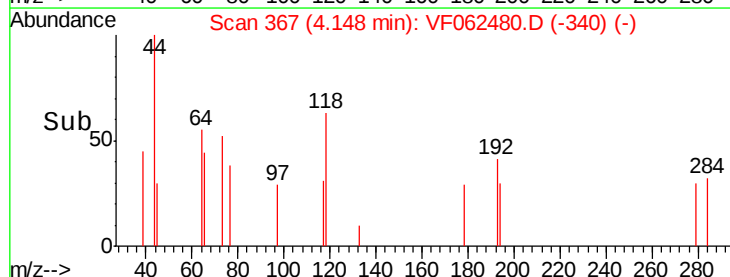
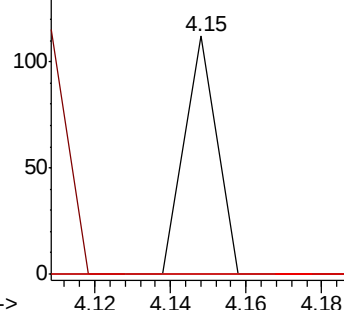


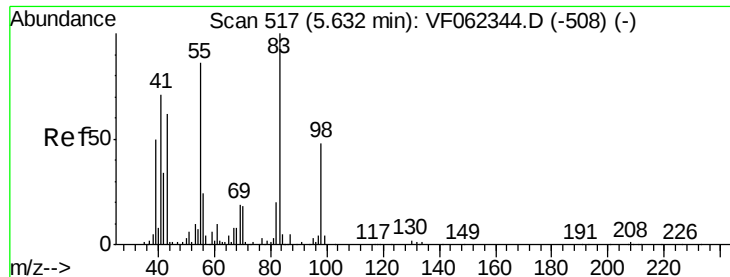
#38  
Carbon Tetrachloride  
Concen: 57.389 ug/l  
RT: 4.15 min Scan# 367  
Delta R.T. -0.04 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Tgt Ion: 117 Resp: 66  
Ion Ratio Lower Upper  
117 100  
119 0.0 73.4 110.2#  
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

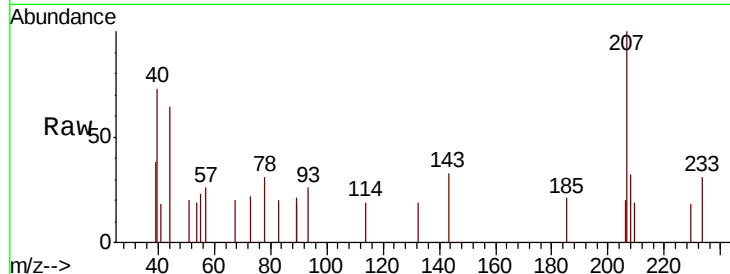




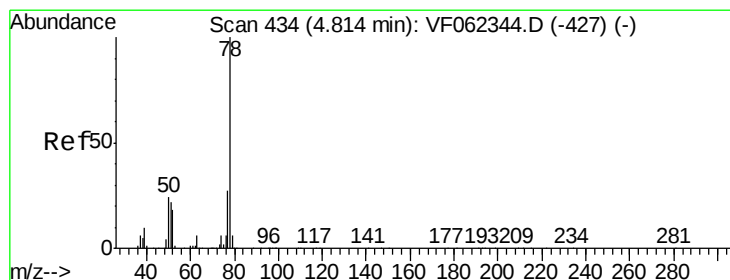
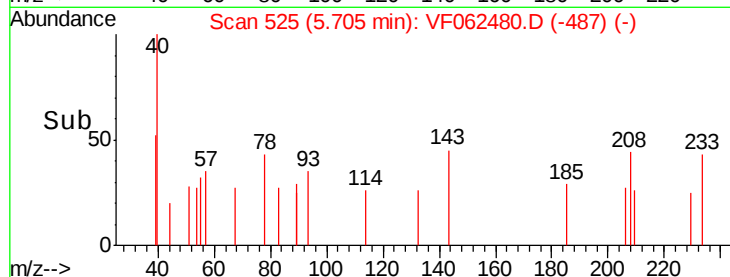
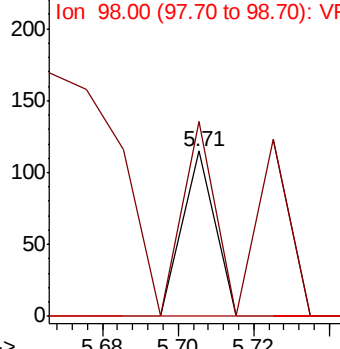
#39  
Methvlcvclohexane  
Concen: 60.714 ug/l  
RT: 5.71 min Scan# 525  
Delta R.T. 0.07 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

Tot Ion: 83 Resp: 68  
Ion Ratio Lower Upper  
83 100  
55 17.4 69.0 103.6#  
98 0.0 38.6 58.0#

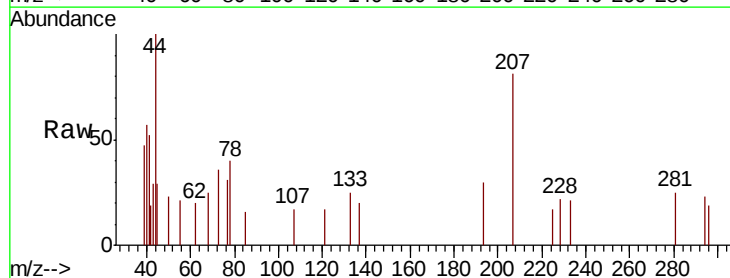


Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 55.00 (54.70 to 55.70): VF0  
Ion 98.00 (97.70 to 98.70): VF0

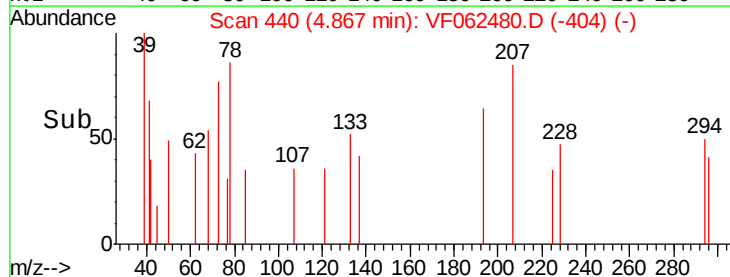
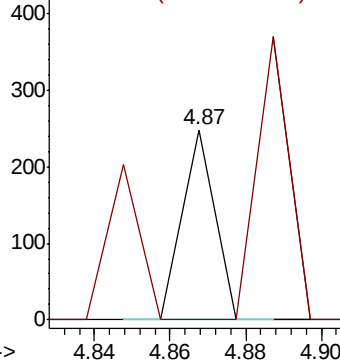


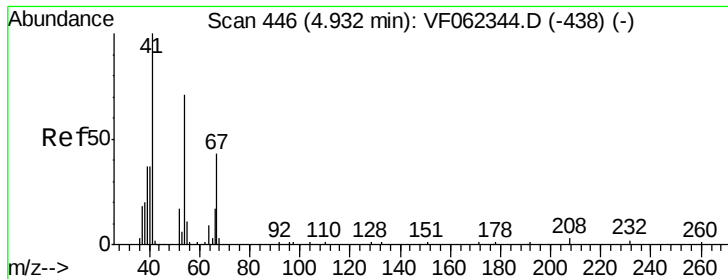
#40  
Benzene  
Concen: 59.777 ug/l  
RT: 4.87 min Scan# 440  
Delta R.T. 0.05 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Tgt Ion: 78 Resp: 147  
Ion Ratio Lower Upper  
78 100  
77 0.0 21.6 32.4#



Abundance Ion 78.00 (77.70 to 78.70): VF0  
Ion 77.00 (76.70 to 77.70): VF0





#41

Methacrylonitrile

Concen: 1269.728 ug/l

RT: 4.96 min Scan# 449

Delta R.T. 0.02 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

Tot Ion: 41 Resp: 340

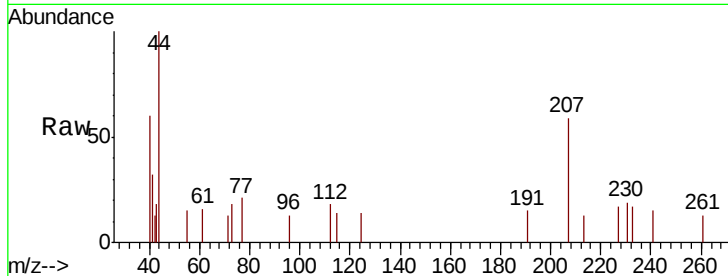
Ion Ratio Lower Upper

41 100

39 150.3 54.3 81.5#

67 24.4 37.8 56.8#

52 0.0 58.2 87.4#

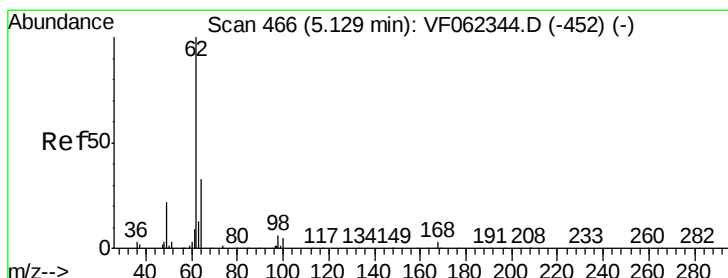
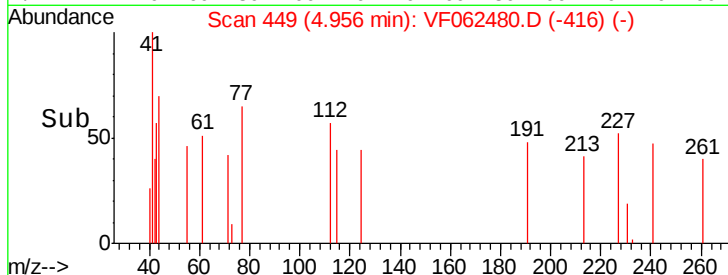
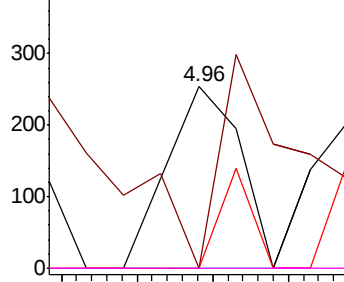


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 83.617 ug/l

RT: 5.08 min Scan# 462

Delta R.T. -0.05 min

Lab File: VF062480.D

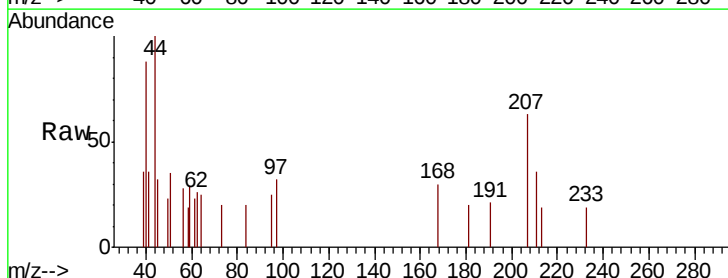
Acq: 12 May 2019 1:59

Tgt Ion: 62 Resp: 86

Ion Ratio Lower Upper

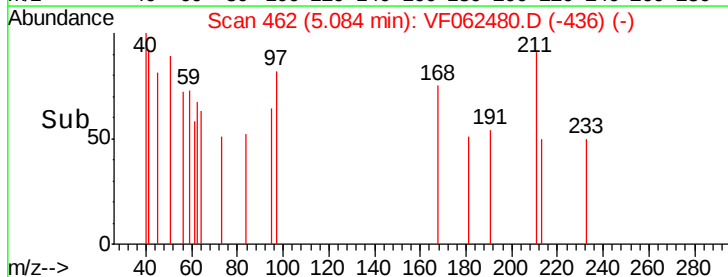
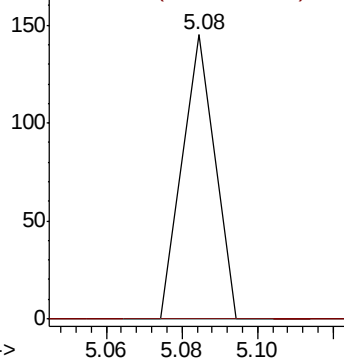
62 100

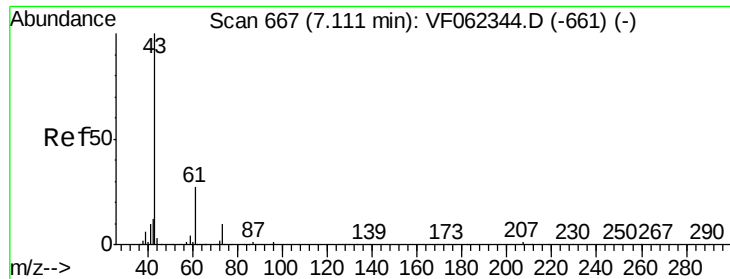
98 0.0 0.0 12.4



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0



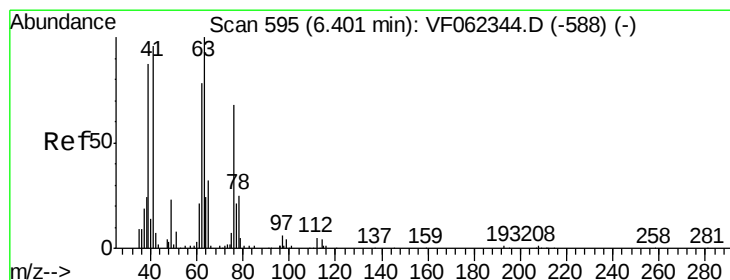
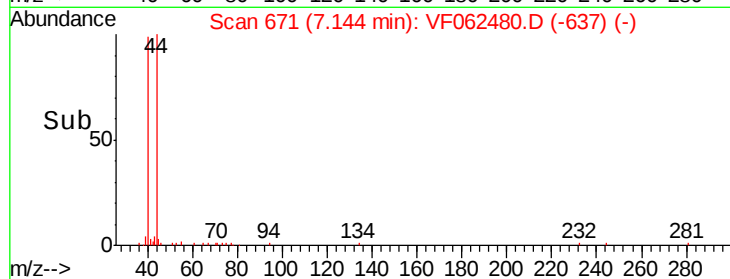
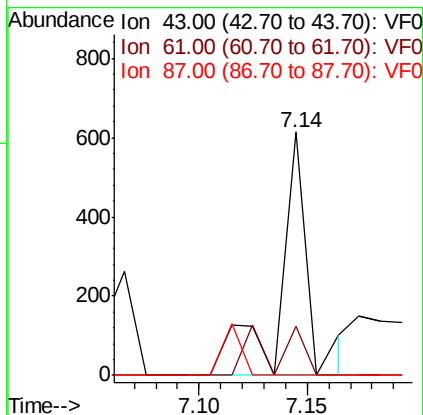
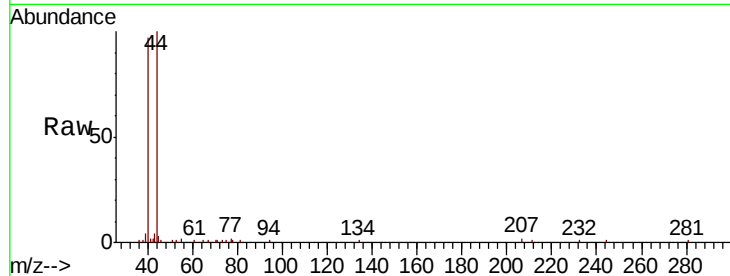


#43

Isopropyl Acetate  
 Concen: 1130.027 ug/l  
 RT: 7.14 min Scan# 671  
 Delta R.T. 0.03 min  
 Lab File: VF062480.D  
 Acq: 12 May 2019 1:59

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P021-SS003-1824-01

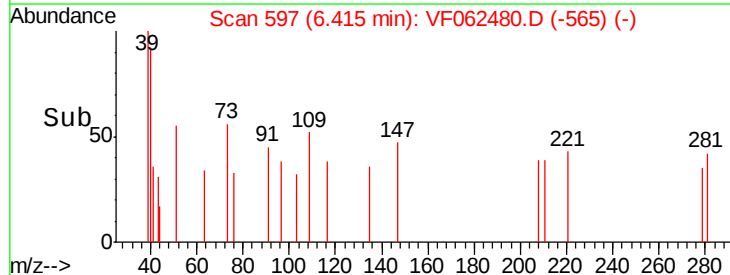
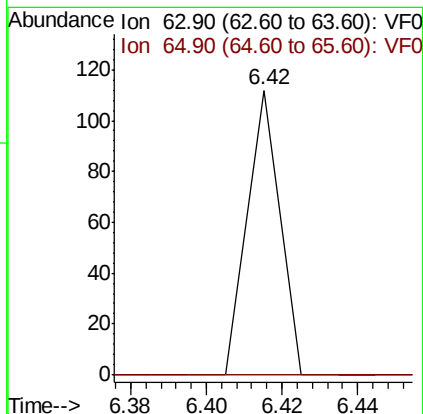
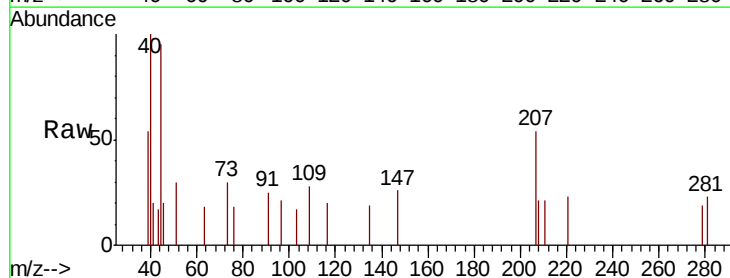
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 22.8  | 34.2# |
| 87      | 0.0   | 0.6   | 1.0#  |

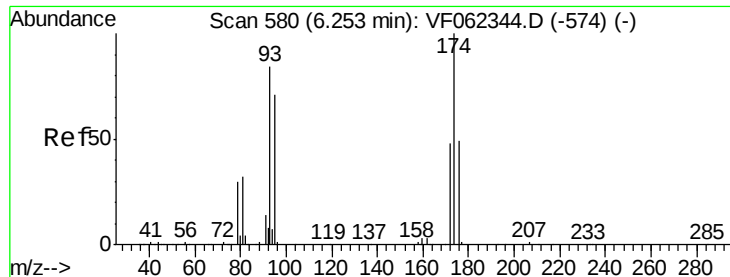


#45

1,2-Dichloropropane  
 Concen: 118.491 ug/l  
 RT: 6.42 min Scan# 597  
 Delta R.T. 0.01 min  
 Lab File: VF062480.D  
 Acq: 12 May 2019 1:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 0.0   | 25.6  | 38.4# |





#46

Dibromomethane

Concen: 212.202 ug/l

RT: 6.31 min Scan# 586

Delta R.T. 0.05 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

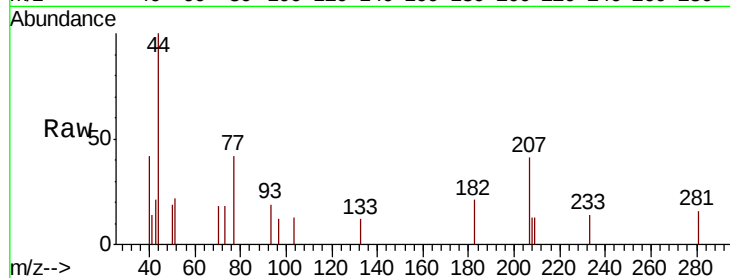
Tot Ion: 93 Resp: 98

Ion Ratio Lower Upper

93 100

95 0.0 68.4 102.6#

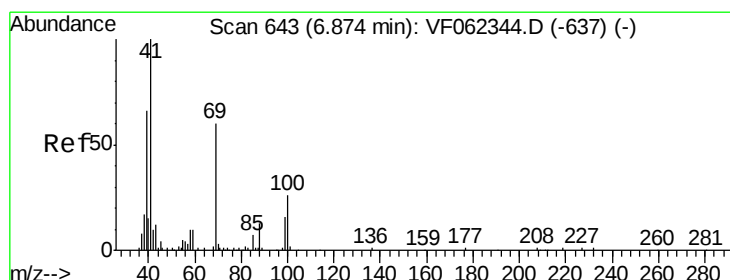
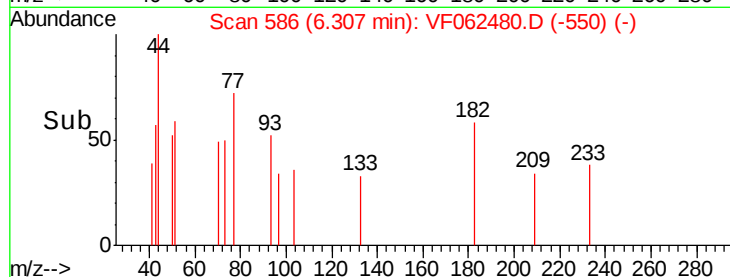
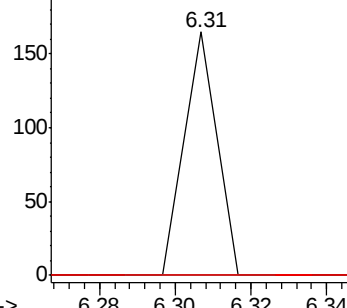
174 0.0 99.6 149.4#



Abundance Ion 92.80 (92.50 to 93.50): VF0

Ion 94.80 (94.50 to 95.50): VF0

Ion 173.70 (173.40 to 174.40): V



#48

Methyl methacrylate

Concen: 936.026 ug/l

RT: 6.94 min Scan# 650

Delta R.T. 0.06 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

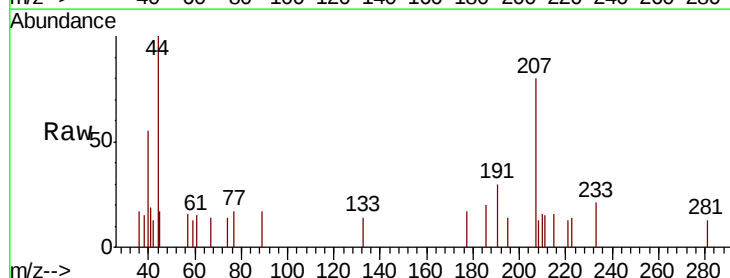
Tgt Ion: 41 Resp: 336

Ion Ratio Lower Upper

41 100

69 0.0 48.6 72.8#

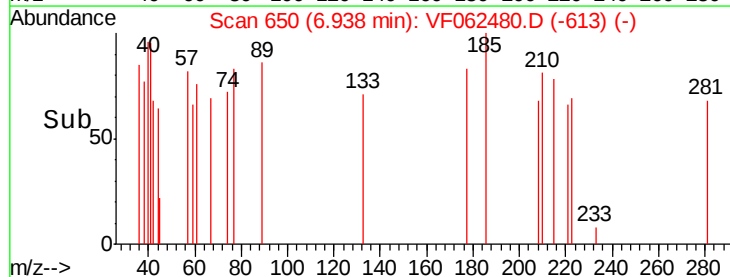
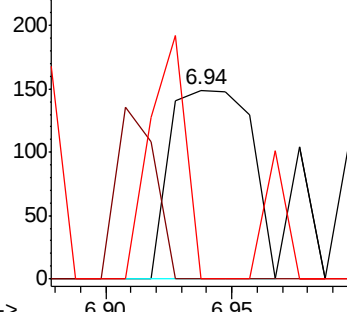
39 56.3 56.1 84.1

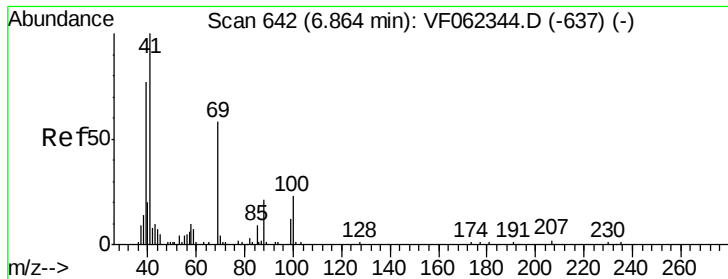


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 18923.905 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.02 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

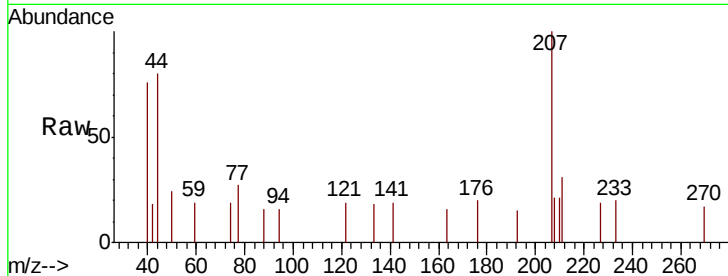
Tot Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 110.1 55.6 83.4#

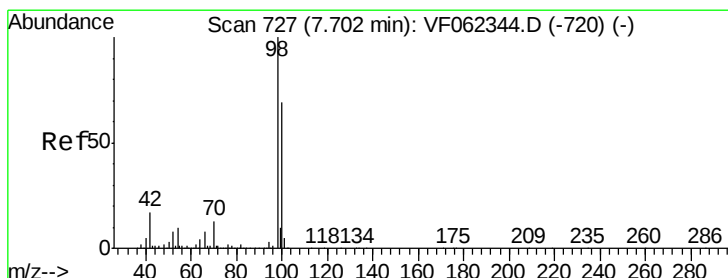
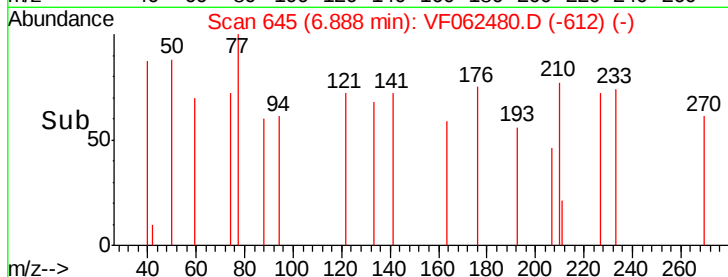
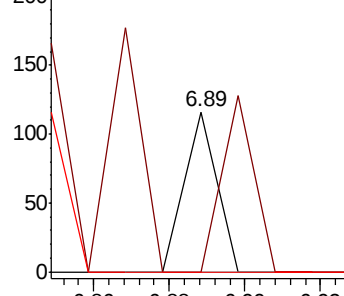
58 0.0 52.8 79.2#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 34.303 ug/l

RT: 7.77 min Scan# 734

Delta R.T. 0.06 min

Lab File: VF062480.D

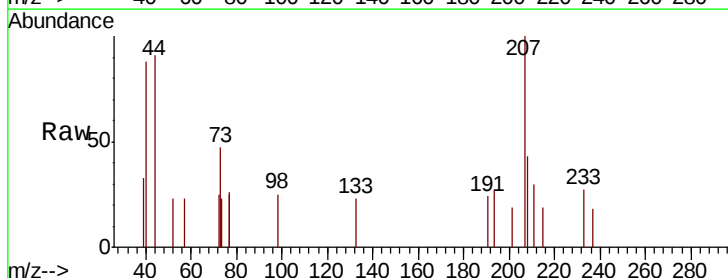
Acq: 12 May 2019 1:59

Tgt Ion: 98 Resp: 86

Ion Ratio Lower Upper

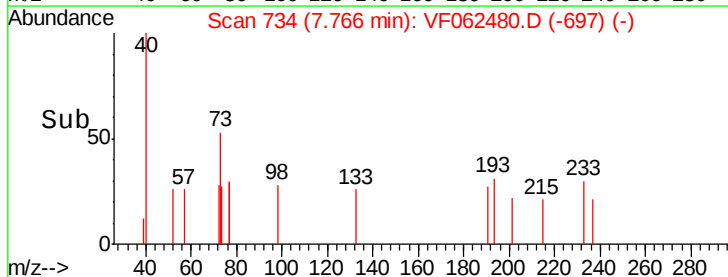
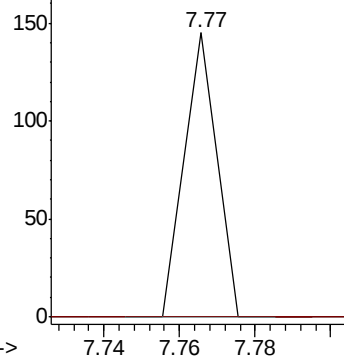
98 100

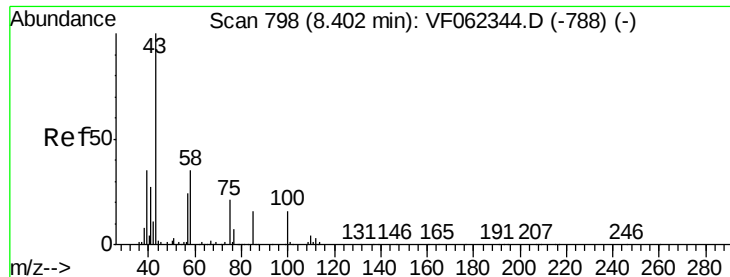
100 0.0 53.3 79.9#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 296.183 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

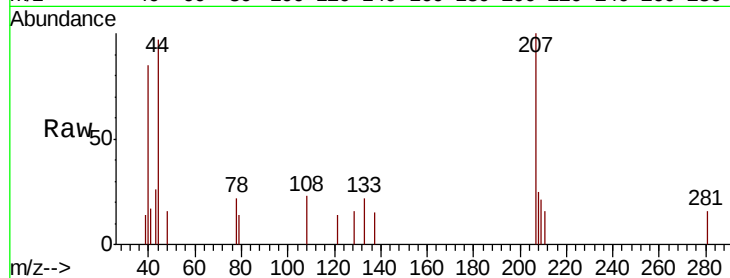
P021-SS003-1824-01

Tot Ion: 43 Resp: 114

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.42

200

150

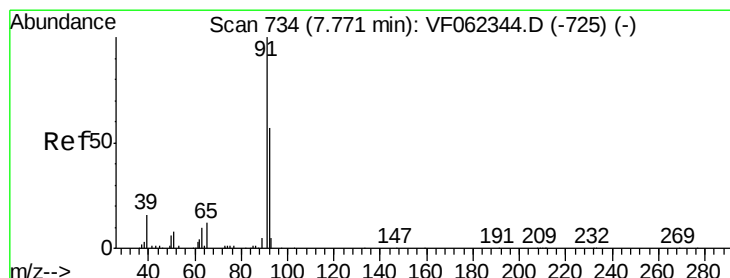
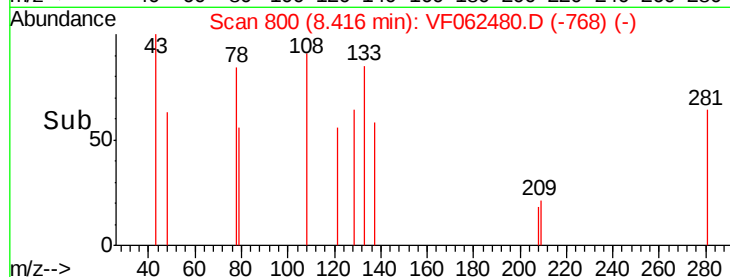
100

50

0

8.40 8.42 8.44

Time-->



#52

Toluene

Concen: 47.460 ug/l

RT: 7.81 min Scan# 739

Delta R.T. 0.04 min

Lab File: VF062480.D

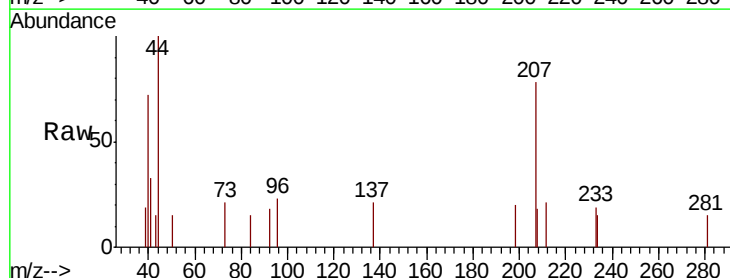
Acq: 12 May 2019 1:59

Tgt Ion: 92 Resp: 72

Ion Ratio Lower Upper

92 100

91 97.2 138.7 208.1#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.81

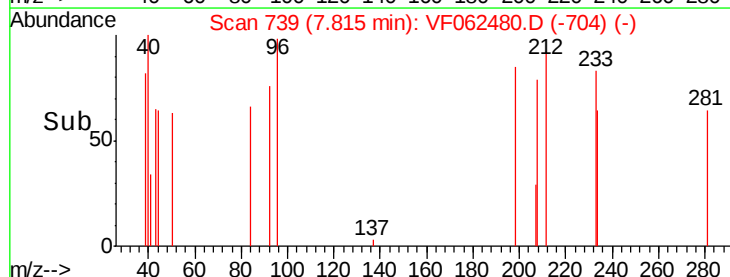
100

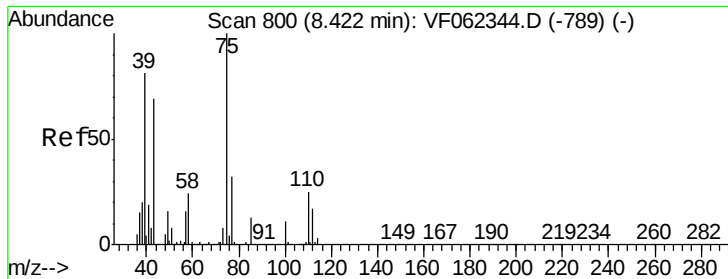
50

0

7.78 7.80 7.82 7.84

Time-->





#53

t-1,3-Dichloropropene

Concen: 67.561 ug/l

RT: 8.48 min Scan# 806

Delta R.T. 0.05 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

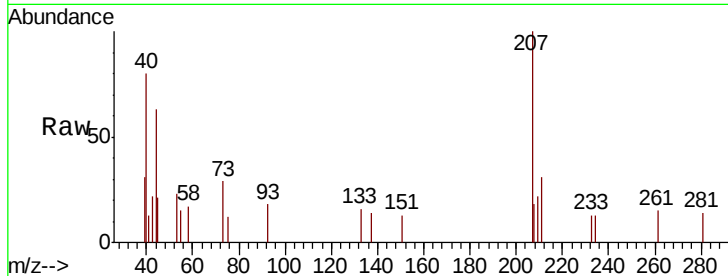
P021-SS003-1824-01

Tot Ion: 75 Resp: 59

Ion Ratio Lower Upper

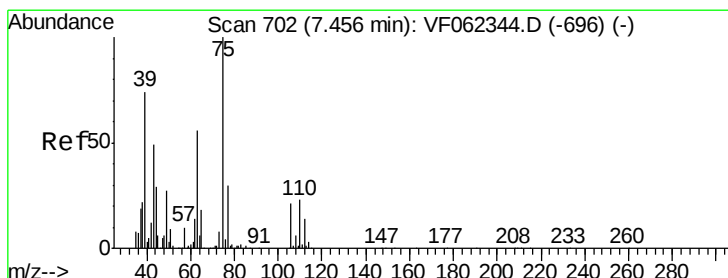
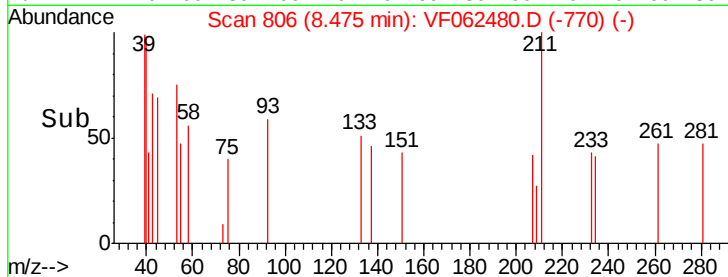
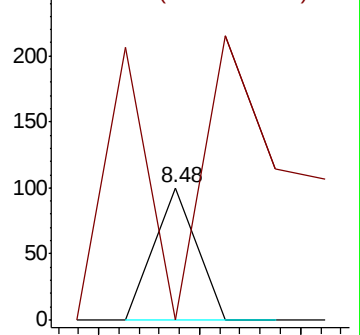
75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0



#54

cis-1,3-Dichloropropene

Concen: 61.987 ug/l

RT: 7.40 min Scan# 697

Delta R.T. -0.05 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

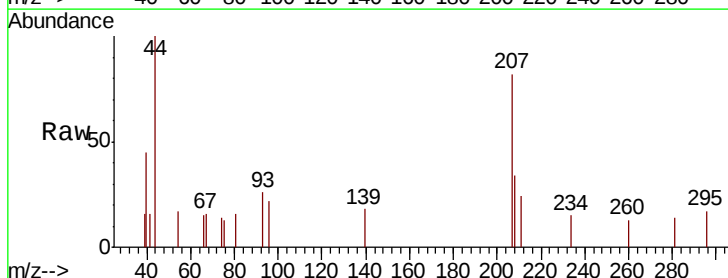
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

77 0.0 24.0 36.0#

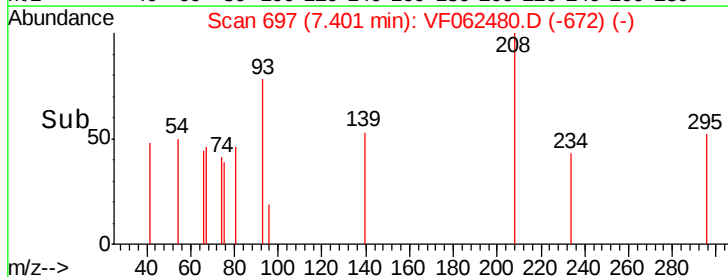
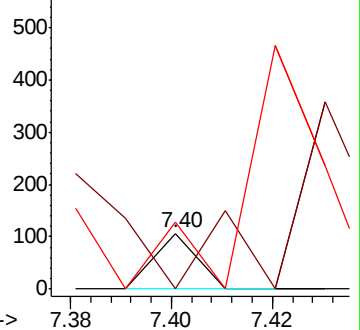
39 120.6 58.7 88.1#

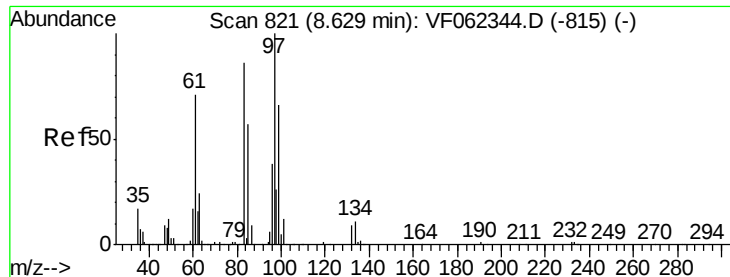


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 193.109 ug/l

RT: 8.85 min Scan# 844

Delta R.T. 0.22 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

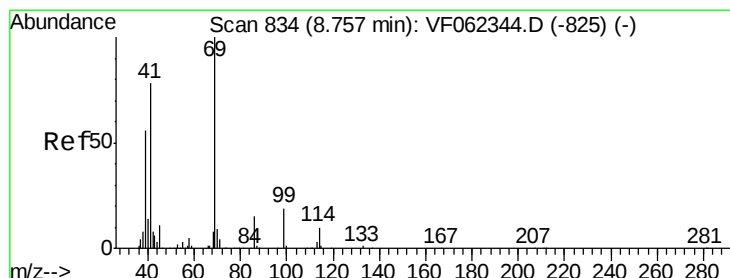
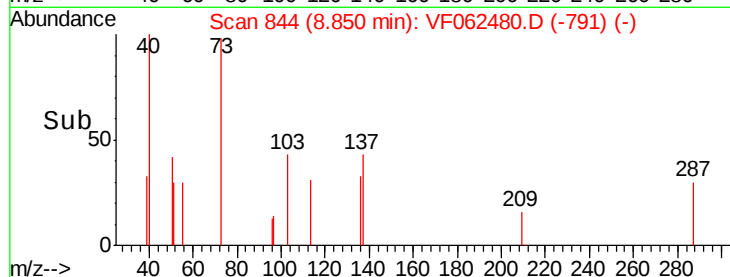
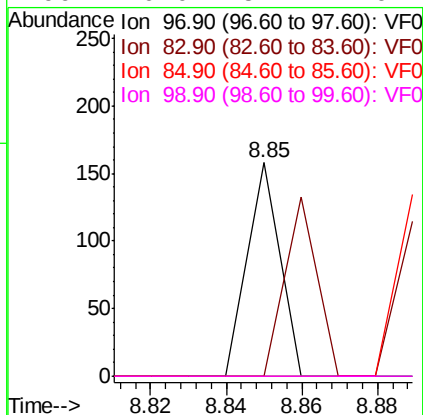
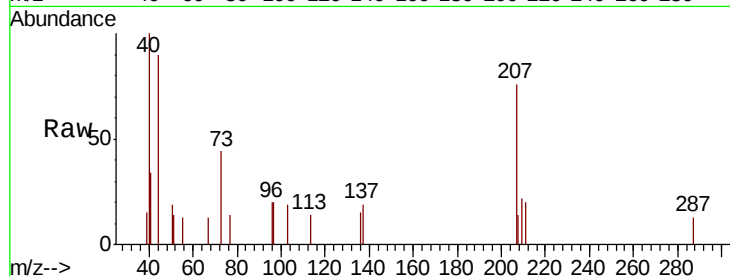
Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 93     |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 0.0   | 68.5  | 102.7# |
| 85       | 0.0   | 45.4  | 68.2#  |
| 99       | 0.0   | 52.7  | 79.1#  |



#56

Ethyl methacrylate

Concen: 118.024 ug/l

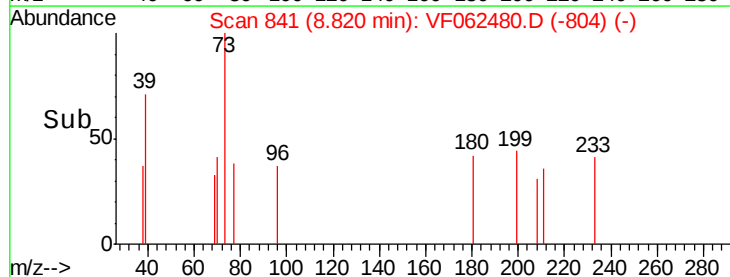
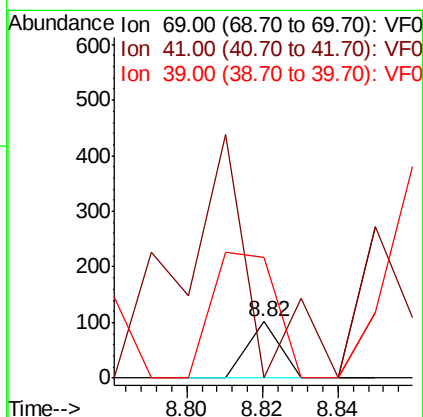
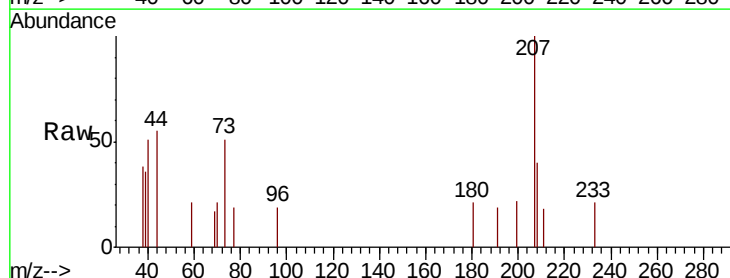
RT: 8.82 min Scan# 841

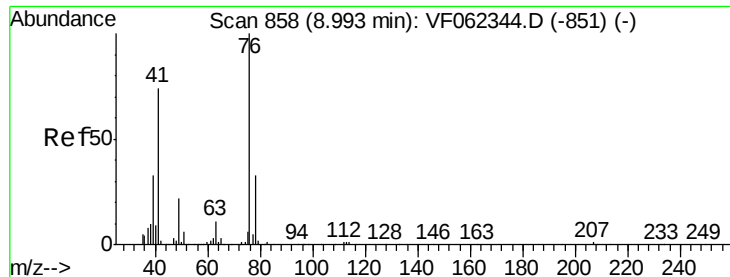
Delta R.T. 0.06 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 60    |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 941.7 | 66.3  | 99.5# |
| 39       | 438.3 | 50.1  | 75.1# |





#57

1,3-Dichloropropane

Concen: 90.728 ug/l

RT: 8.88 min Scan# 847

Delta R.T. -0.11 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

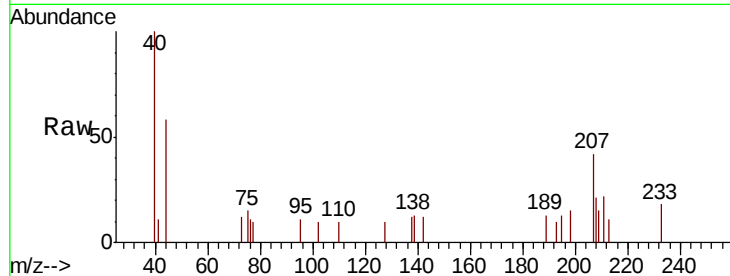
P021-SS003-1824-01

Tot Ion: 76 Resp: 66

Ion Ratio Lower Upper

76 100

78 236.4 26.4 39.6#



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0

200

150

100

50

0

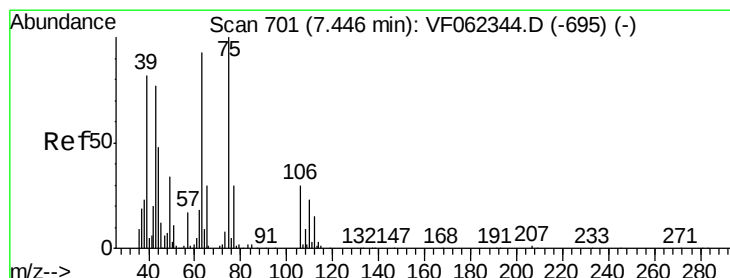
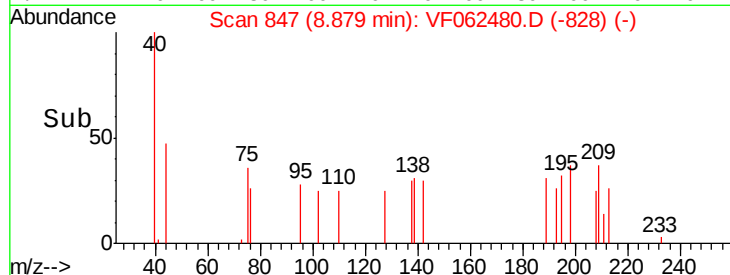
8.84

8.86

8.88

8.90

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 654.282 ug/l

RT: 7.34 min Scan# 691

Delta R.T. -0.10 min

Lab File: VF062480.D

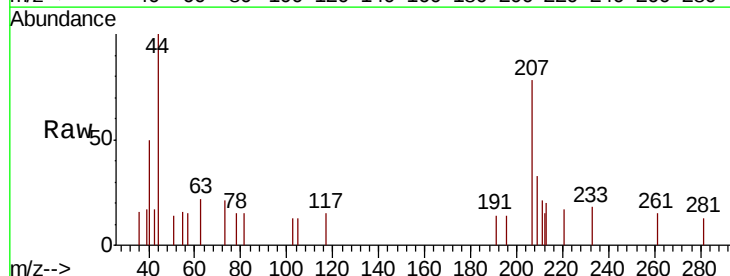
Acq: 12 May 2019 1:59

Tgt Ion: 63 Resp: 100

Ion Ratio Lower Upper

63 100

106 0.0 25.8 38.8#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

200

150

100

50

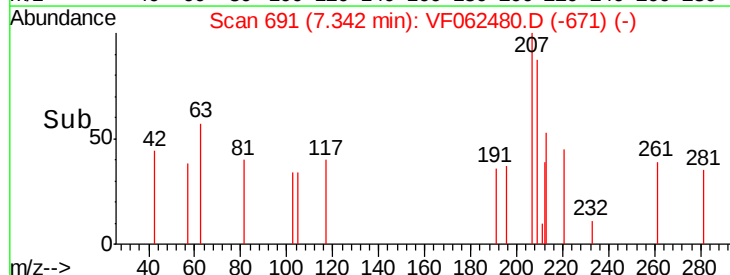
0

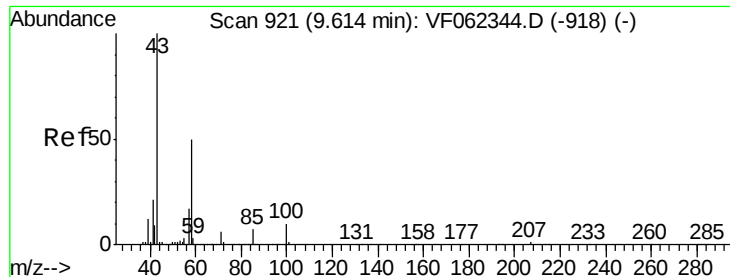
7.32

7.34

7.36

Time-->

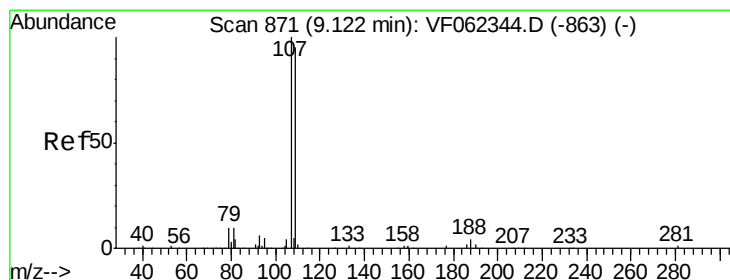
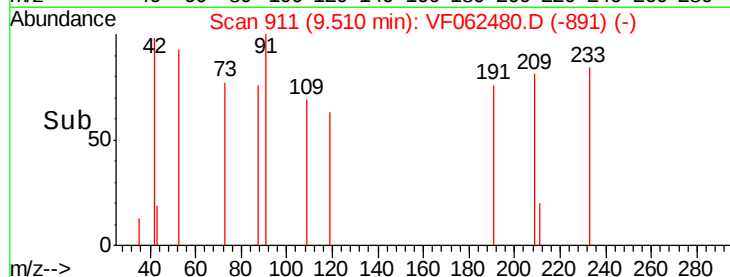
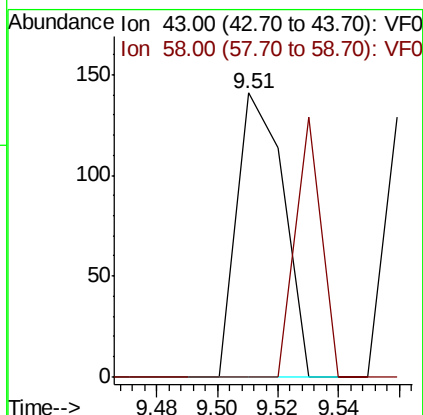
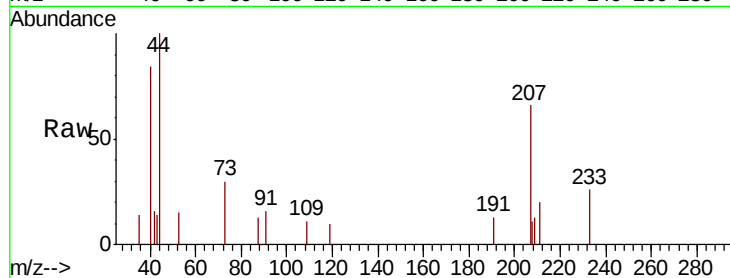




#59  
2-Hexanone  
Concen: 567.252 ug/l  
RT: 9.51 min Scan# 911  
Delta R.T. -0.10 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

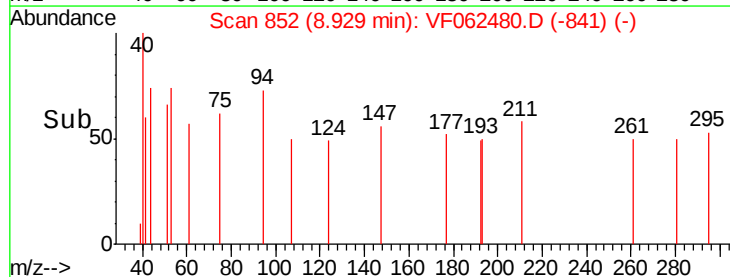
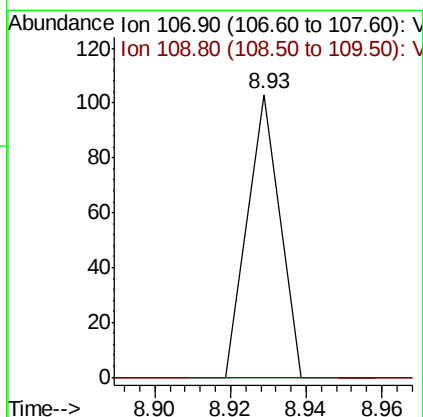
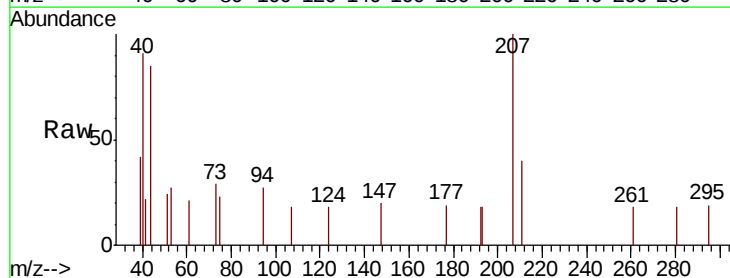
Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

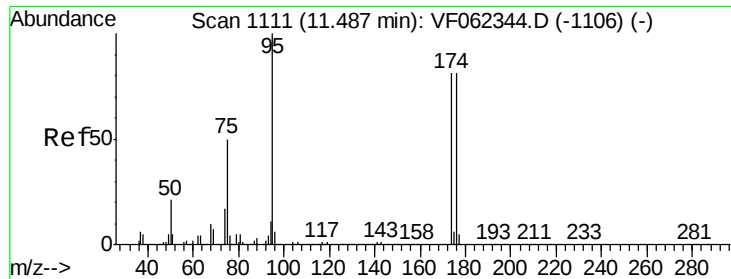
Tot Ion: 43.00 Resp: 151  
Ion Ratio Lower Upper  
43 100  
58 50.3 24.3 73.0



#61  
1,2-Dibromoethane  
Concen: 107.769 ug/l  
RT: 8.93 min Scan# 852  
Delta R.T. -0.19 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Tgt Ion: 107 Resp: 61  
Ion Ratio Lower Upper  
107 100  
109 0.0 75.2 112.8#

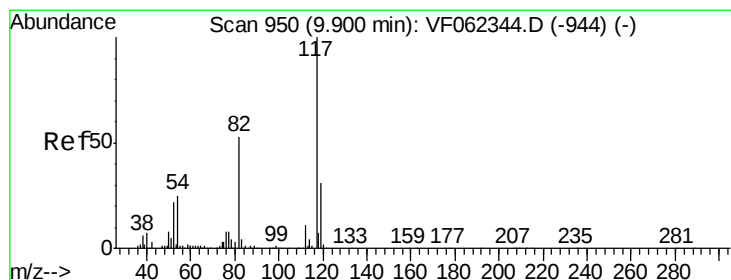
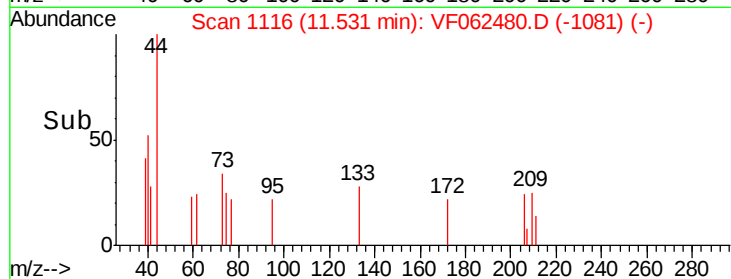
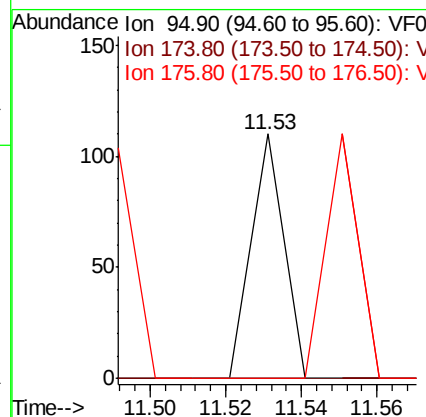
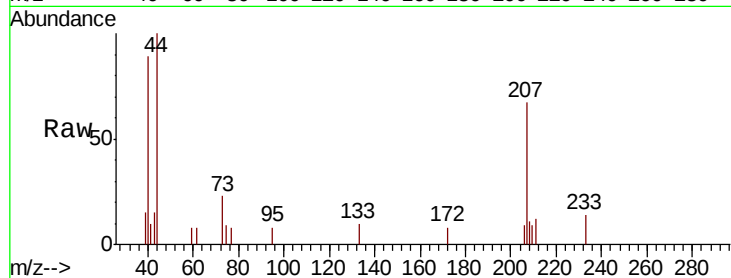




#62  
4-Bromofluorobenzene  
Concen: 57.467 ug/l  
RT: 11.53 min Scan# 1116  
Delta R.T. 0.04 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

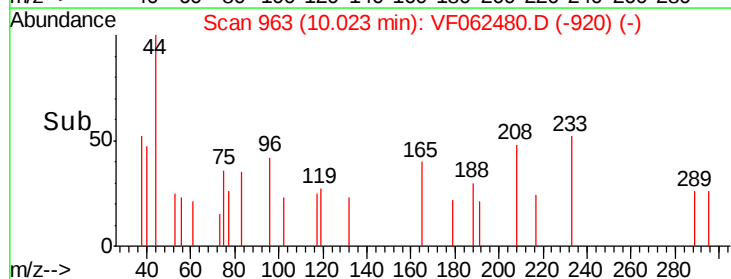
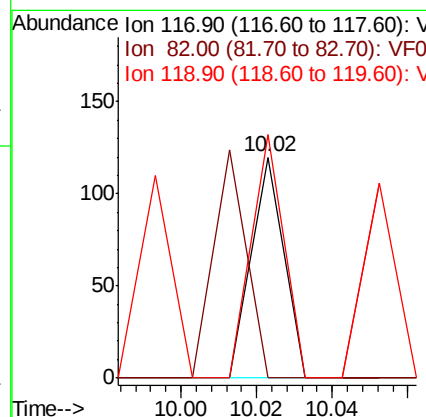
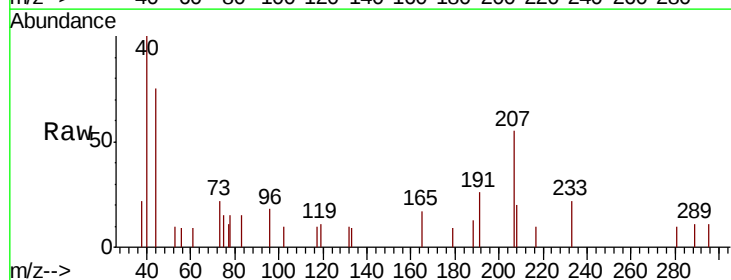
Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

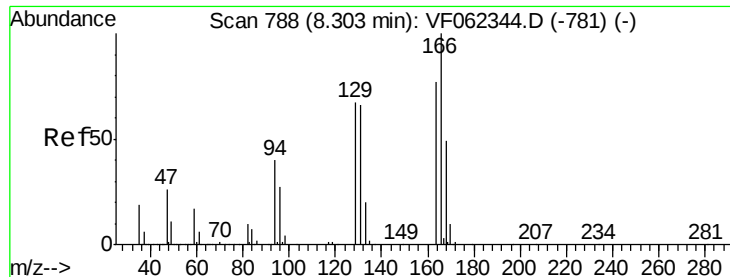
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 0.0   | 0.0   | 191.8 |
| 176     | 100.0 | 0.0   | 193.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.02 min Scan# 963  
Delta R.T. 0.12 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 141.7 | 42.2  | 63.2# |
| 119     | 110.0 | 25.0  | 37.4# |

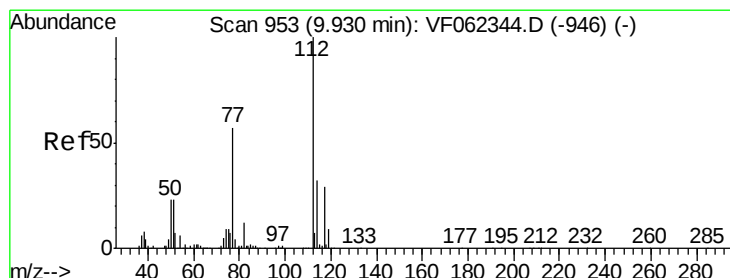
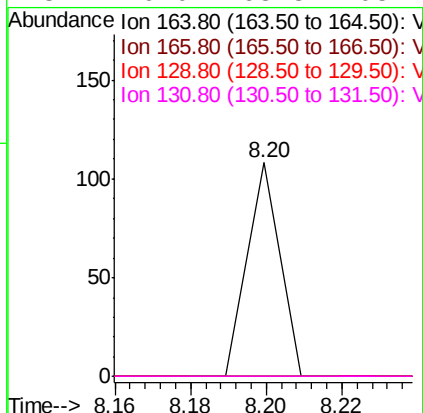
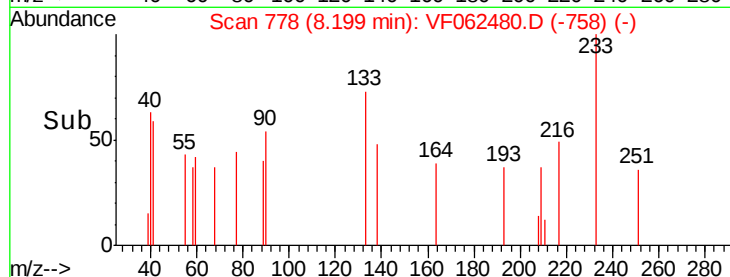
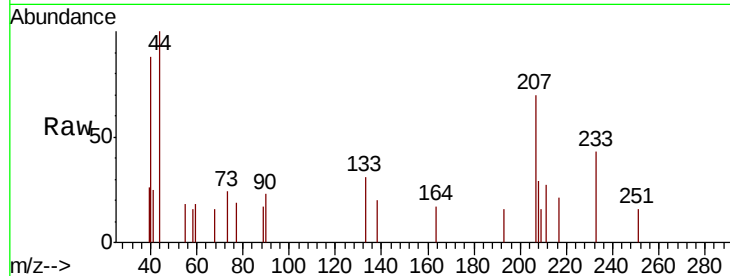




#64  
Tetrachloroethene  
Concen: 111.034 ug/l  
RT: 8.20 min Scan# 778  
Delta R.T. -0.10 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

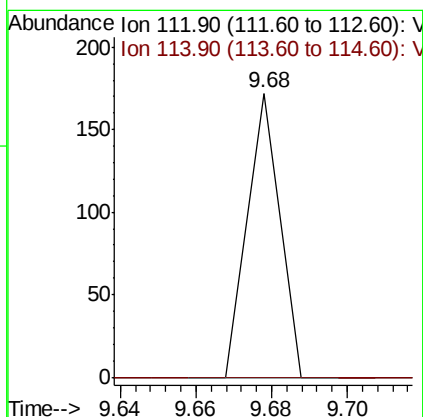
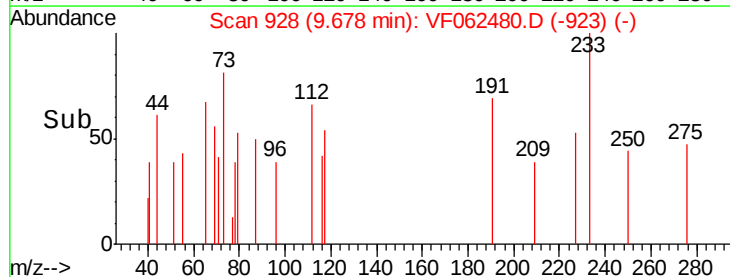
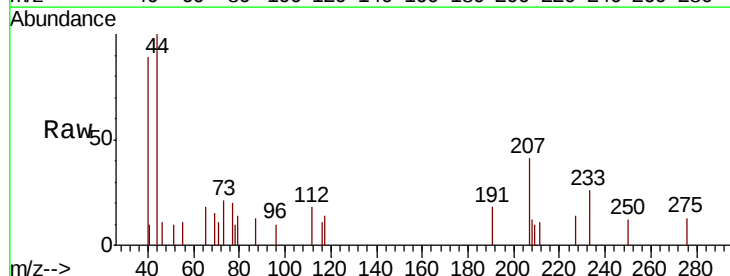
Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

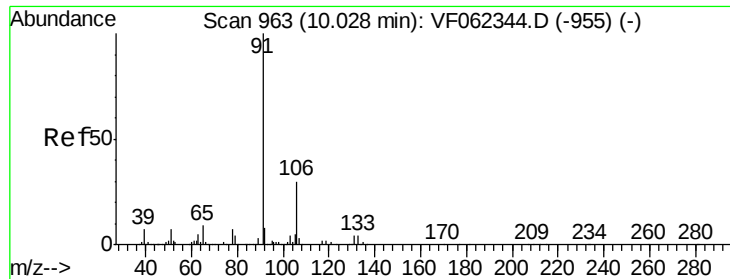
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 0.0   | 104.2 | 156.4# |
| 129     | 0.0   | 69.6  | 104.4# |
| 131     | 0.0   | 68.8  | 103.2# |



#65  
Chlorobenzene  
Concen: 86.828 ug/l  
RT: 9.68 min Scan# 928  
Delta R.T. -0.25 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 0.0   | 25.4  | 38.0# |





#67

Ethyl Benzene

Concen: 44.238 ug/l

RT: 10.08 min Scan# 969

Delta R.T. 0.05 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

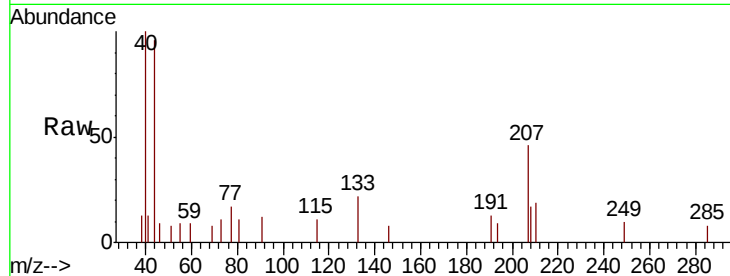
P021-SS003-1824-01

Tot Ion: 91 Resp: 91

Ion Ratio Lower Upper

91 100

106 0.0 24.1 36.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

10.08

150

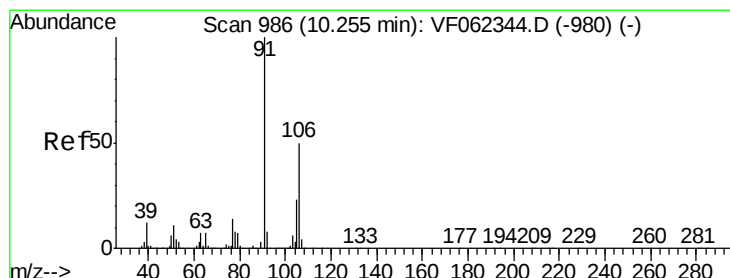
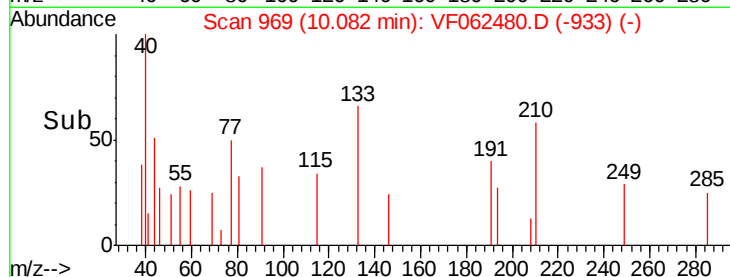
100

50

0

10.06 10.08 10.10

Time-->



#68

m/p-Xylenes

Concen: 134.390 ug/l

RT: 10.47 min Scan# 1008

Delta R.T. 0.21 min

Lab File: VF062480.D

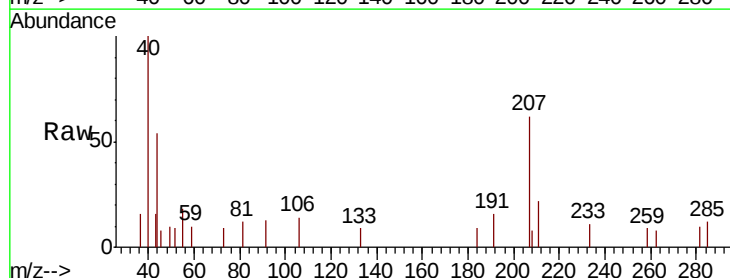
Acq: 12 May 2019 1:59

Tgt Ion: 106 Resp: 102

Ion Ratio Lower Upper

106 100

91 90.2 167.4 251.2#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200

150

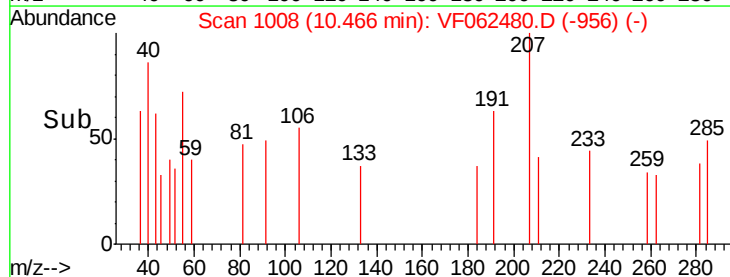
100

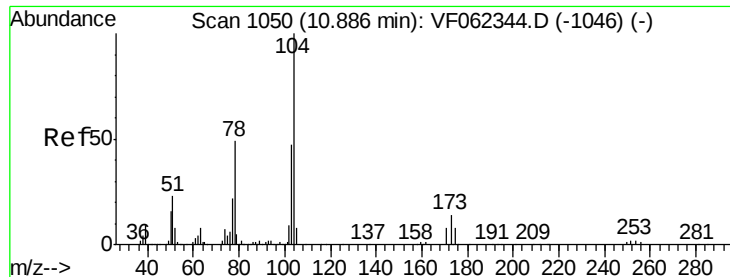
50

0

10.44 10.46 10.48

Time-->





#70

Stvrene

Concen: 56.136 ug/l

RT: 10.66 min Scan# 1028

Delta R.T. -0.22 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

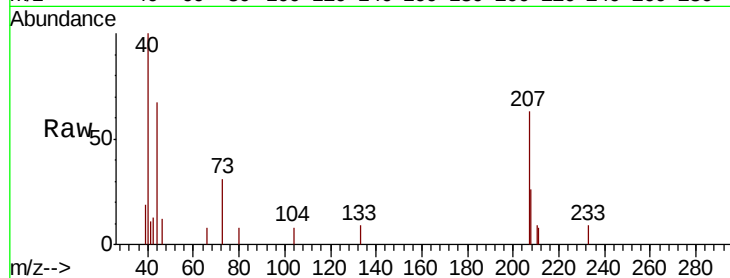
Tot Ion:104 Resp: 69

Ion Ratio Lower Upper

104 100

78 0.0 39.5 59.3#

103 0.0 38.4 57.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V

250

200

150

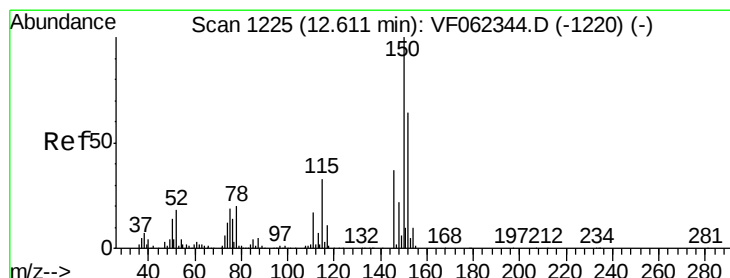
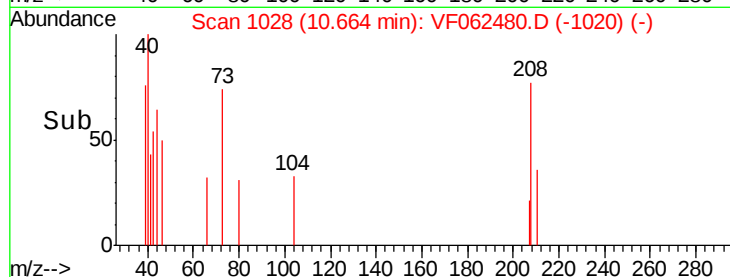
100

50

0

10.64 10.66 10.68

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.74 min Scan# 1239

Delta R.T. 0.13 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

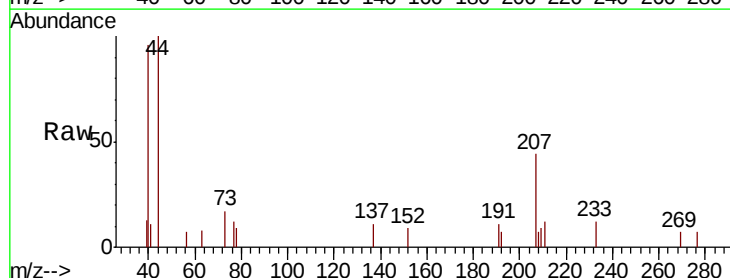
Tgt Ion:152 Resp: 76

Ion Ratio Lower Upper

152 100

115 0.0 26.4 79.2#

150 0.0 0.0 335.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

150

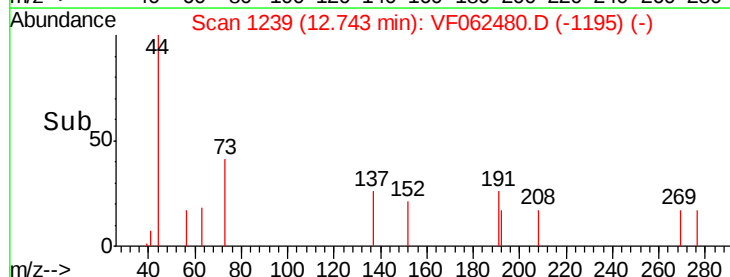
100

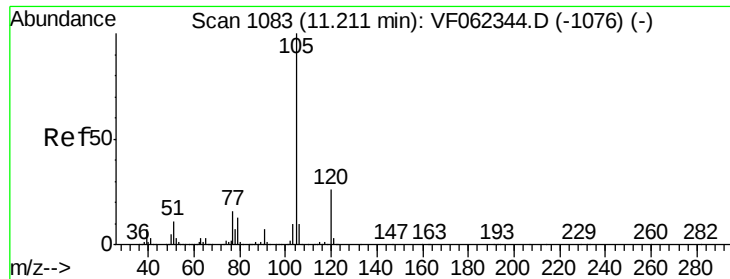
50

0

12.72 12.74 12.76

Time-->





#73

Isopropylbenzene

Concen: 34.624 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

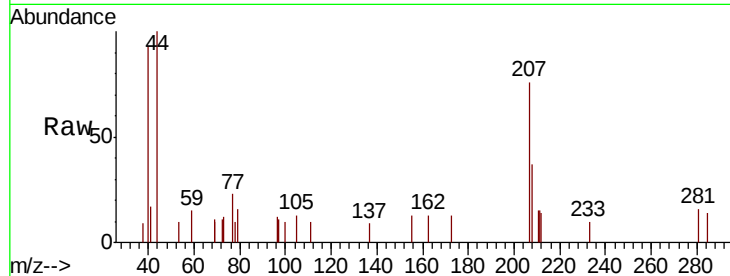
P021-SS003-1824-01

Tot Ion:105 Resp: 156

Ion Ratio Lower Upper

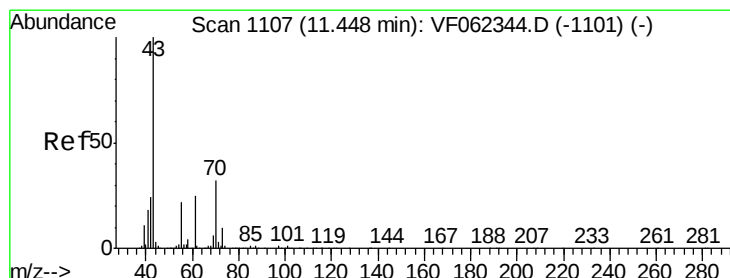
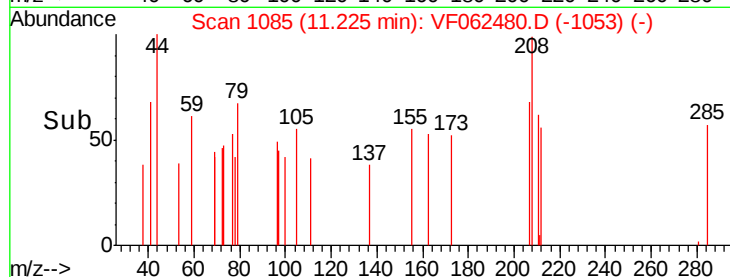
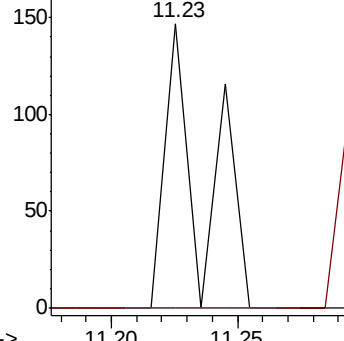
105 100

120 0.0 12.7 38.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 491.065 ug/l

RT: 11.42 min Scan# 1105

Delta R.T. -0.03 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Tgt Ion: 43 Resp: 475

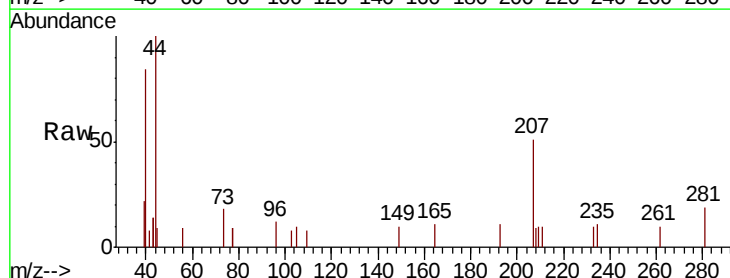
Ion Ratio Lower Upper

43 100

70 17.5 26.5 39.7#

55 19.2 17.8 26.6

61 0.0 20.2 30.2#

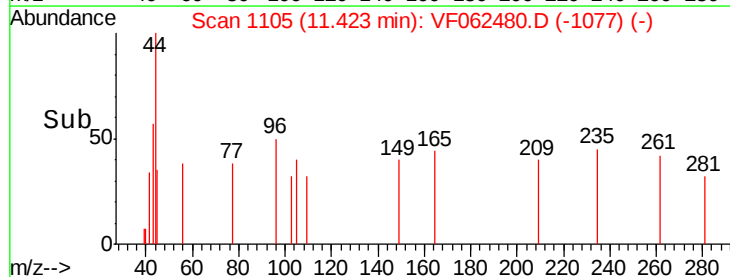
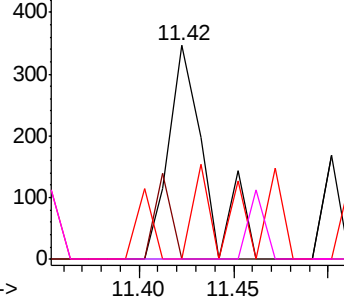


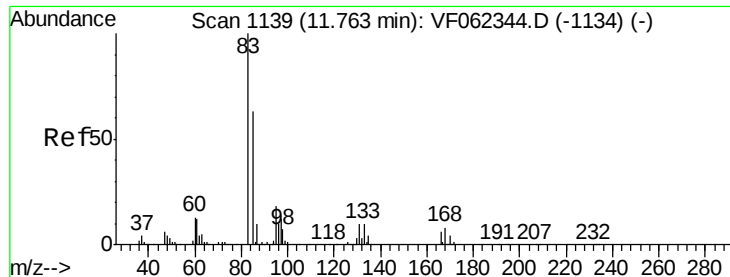
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 158.761 ug/l

RT: 11.75 min Scan# 1138

Delta R.T. -0.02 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

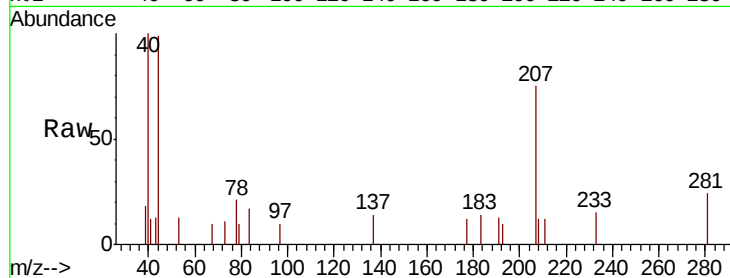
Tot Ion: 83 Resp: 112

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

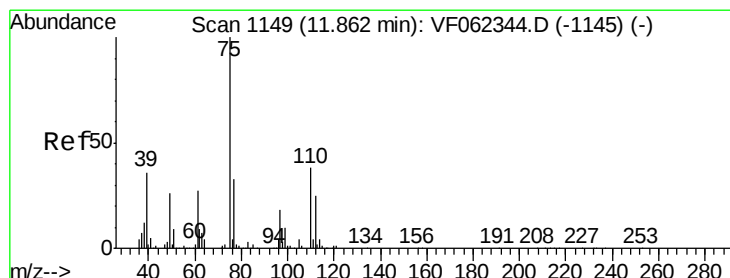
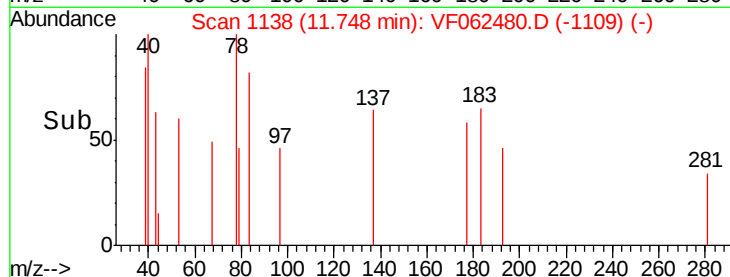
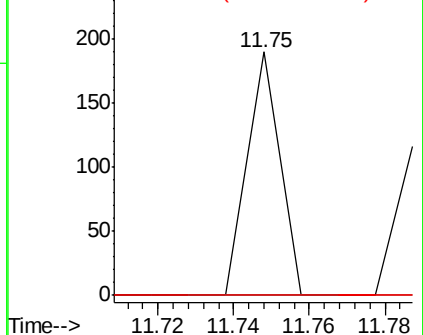
85 0.0 35.3 105.7#



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 113.336 ug/l

RT: 11.84 min Scan# 1147

Delta R.T. -0.03 min

Lab File: VF062480.D

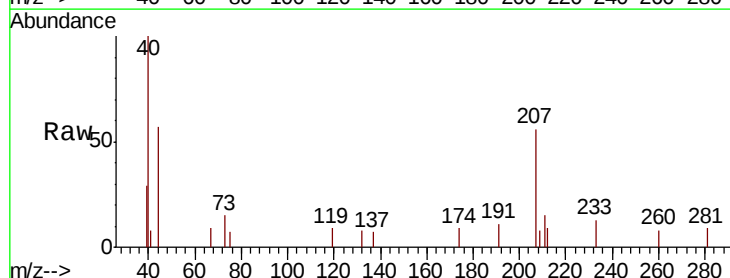
Acq: 12 May 2019 1:59

Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

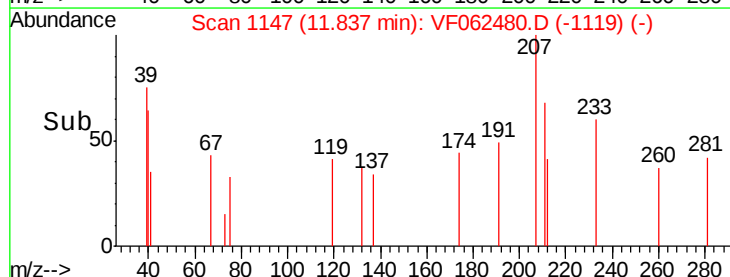
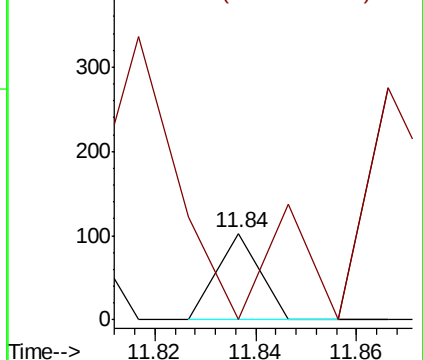
75 100

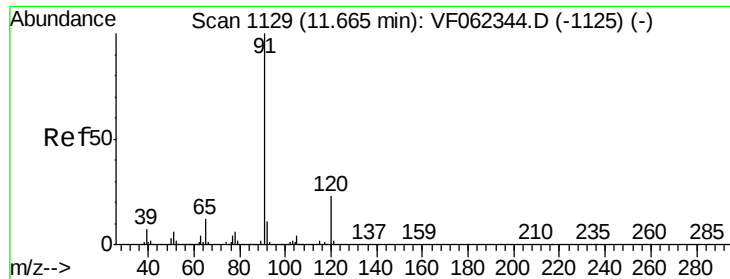
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#78

n-propylbenzene

Concen: 13.759 ug/l

RT: 11.64 min Scan# 1127

Delta R.T. -0.03 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

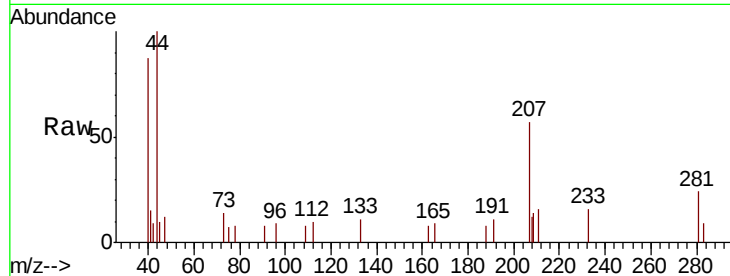
P021-SS003-1824-01

Tot Ion: 91 Resp: 66

Ion Ratio Lower Upper

91 100

120 0.0 11.9 35.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.64

100

80

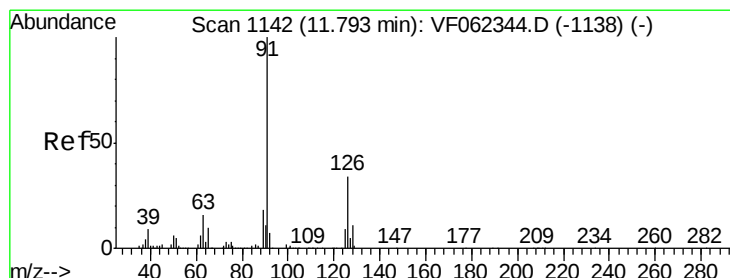
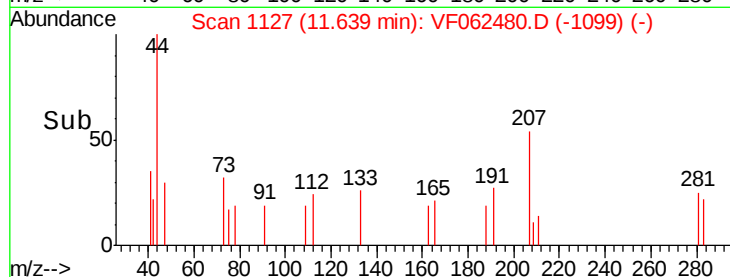
60

40

20

0

Time--> 11.60 11.62 11.64 11.66



#79

2-Chlorotoluene

Concen: 24.138 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF062480.D

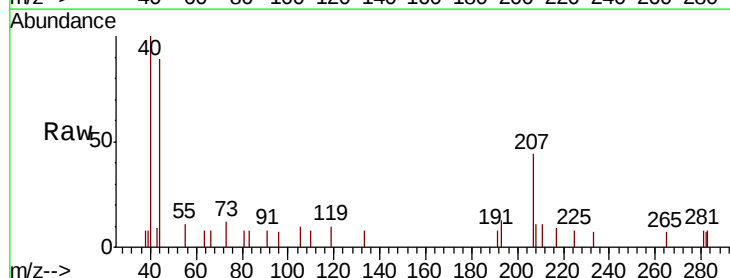
Acq: 12 May 2019 1:59

Tgt Ion: 91 Resp: 72

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V

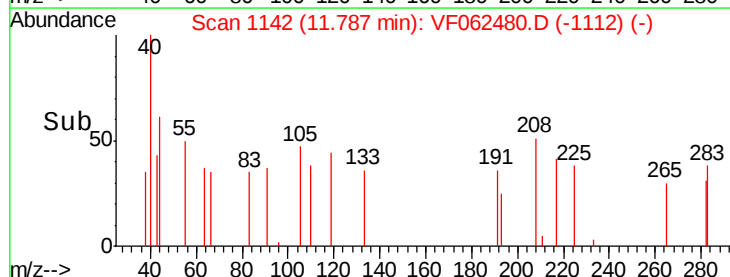
11.79

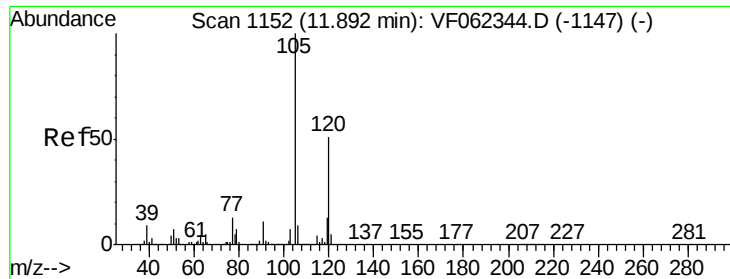
100

50

0

Time--> 11.76 11.78 11.80





#80

1,3,5-Trimethylbenzene

Concen: 24.309 ug/l

RT: 11.94 min Scan# 1158

Delta R.T. 0.05 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

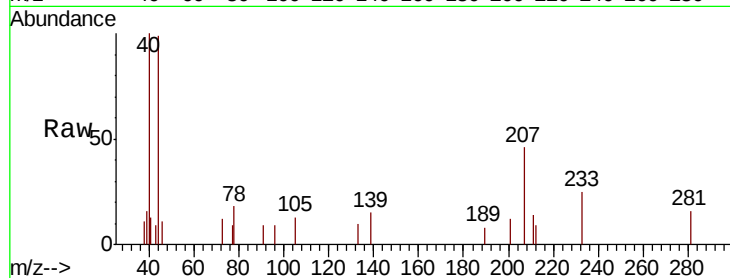
P021-SS003-1824-01

Tot Ion: 105 Resp: 96

Ion Ratio Lower Upper

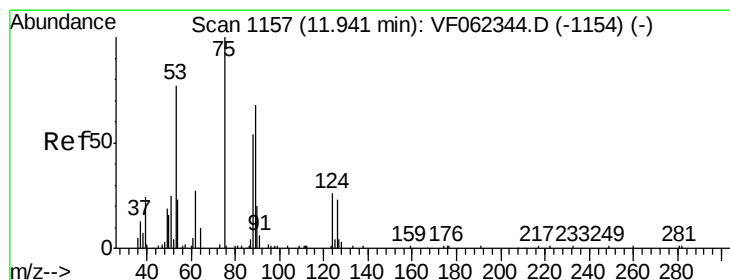
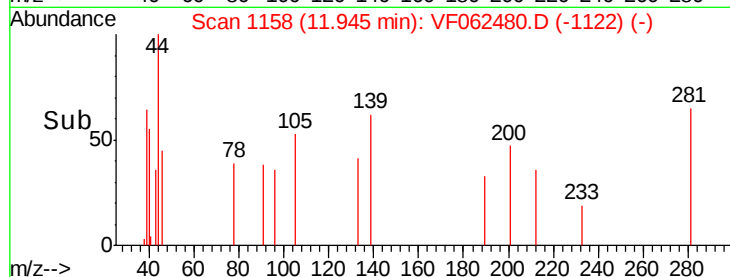
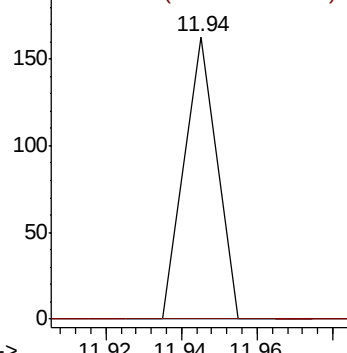
105 100

120 0.0 24.6 74.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 301.516 ug/l

RT: 11.93 min Scan# 1156

Delta R.T. -0.02 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

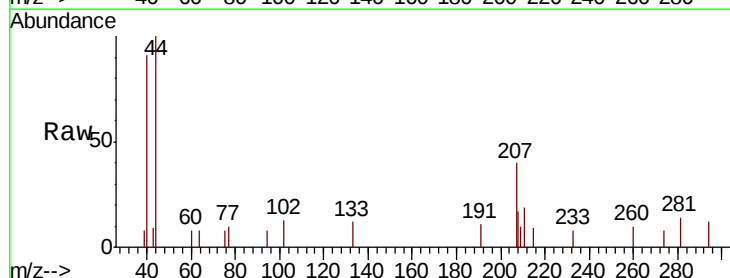
Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

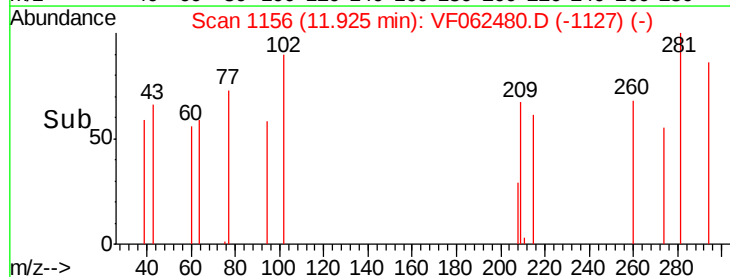
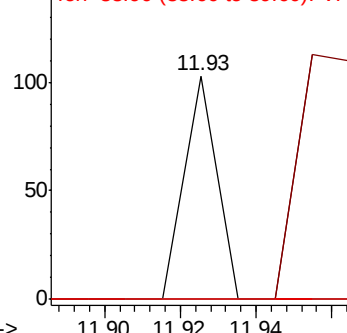
89 0.0 0.0 0.0

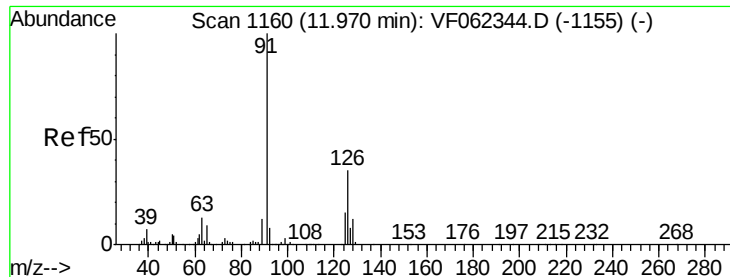


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

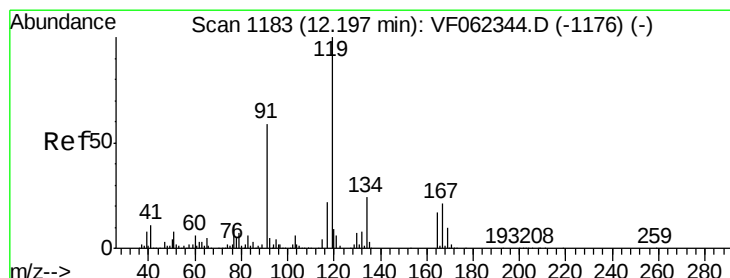
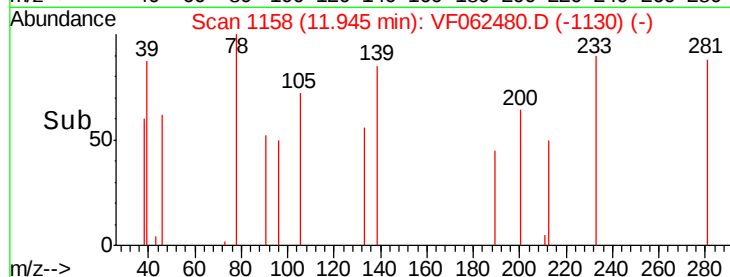
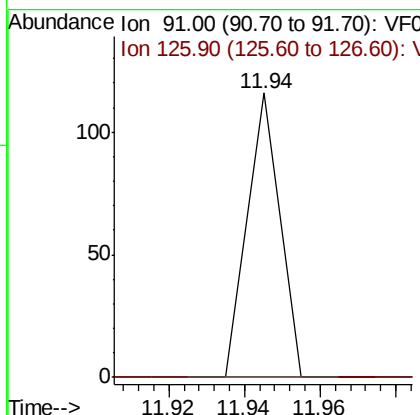
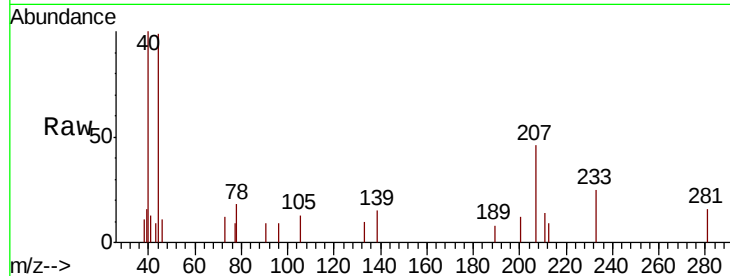




#82  
4-Chlorotoluene  
Concen: 23.421 ug/l  
RT: 11.94 min Scan# 1158  
Delta R.T. -0.03 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

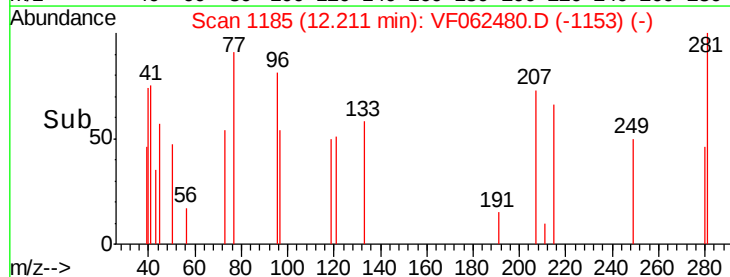
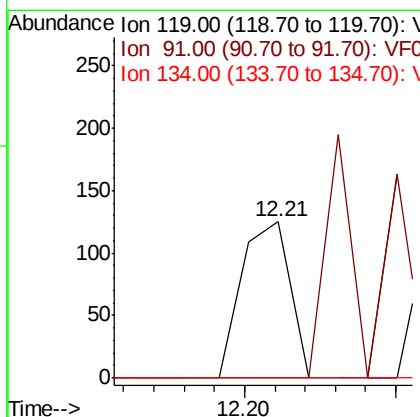
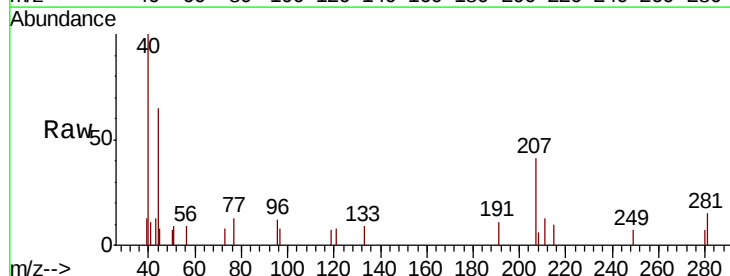
Instrument :  
MSVOA\_F  
ClientSampleId :  
P021-SS003-1824-01

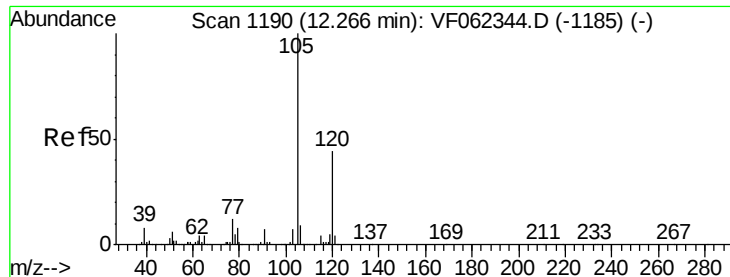
Tot Ion: 91 Resp: 69  
Ion Ratio Lower Upper  
91 100  
126 0.0 17.7 53.1#



#83  
tert-Butylbenzene  
Concen: 33.251 ug/l  
RT: 12.21 min Scan# 1185  
Delta R.T. 0.01 min  
Lab File: VF062480.D  
Acq: 12 May 2019 1:59

Tgt Ion: 119 Resp: 138  
Ion Ratio Lower Upper  
119 100  
91 153.6 30.4 91.3#  
134 0.0 11.9 35.7#

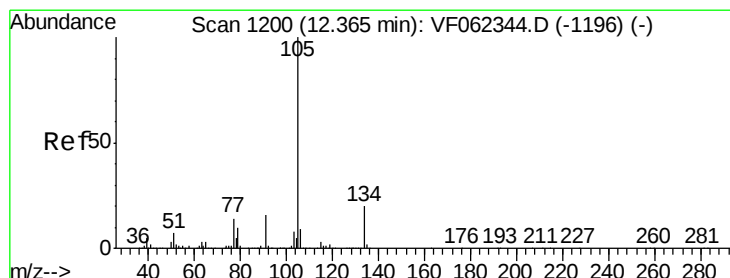
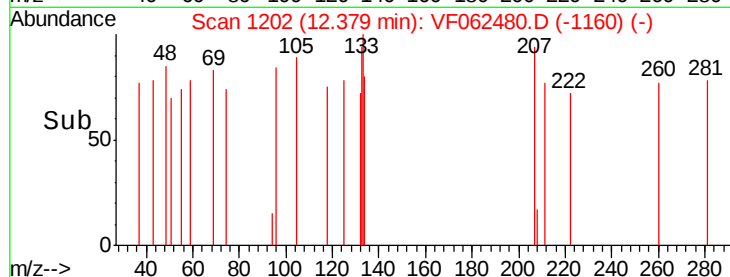
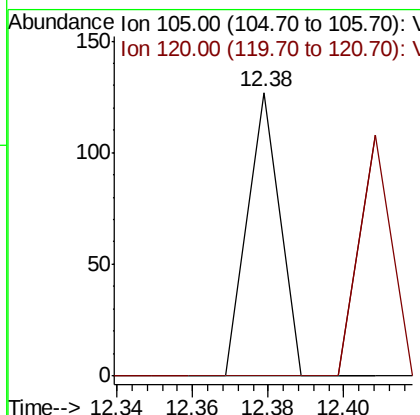
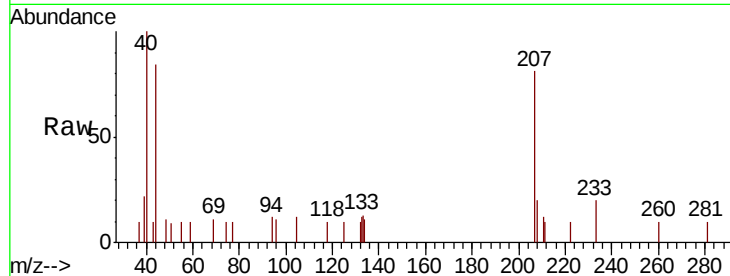




#84  
 1,2,4-Trimethylbenzene  
 Concen: 19.407 ug/l  
 RT: 12.38 min Scan# 1202  
 Delta R.T. 0.11 min  
 Lab File: VF062480.D  
 Acq: 12 May 2019 1:59

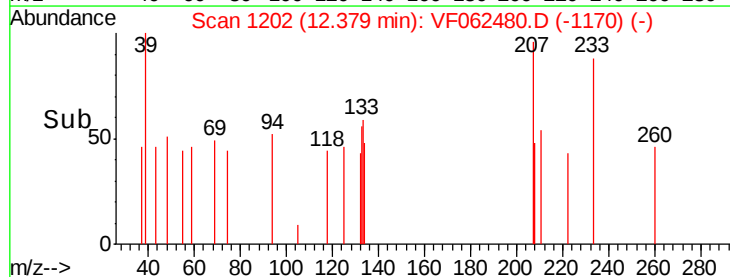
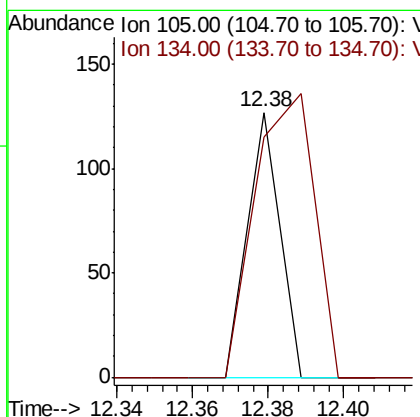
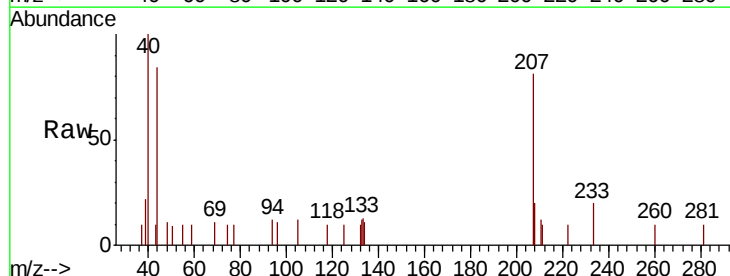
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P021-SS003-1824-01

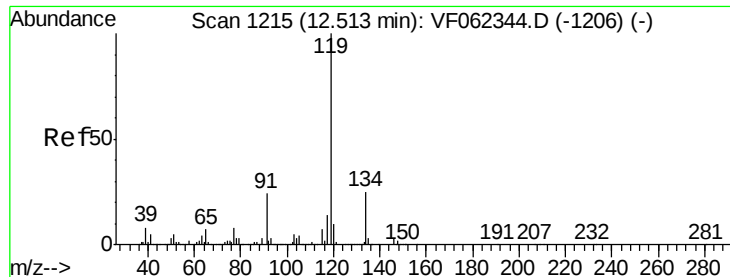
Tot Ion:105 Resp: 75  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 22.6 67.7#



#85  
 sec-Butylbenzene  
 Concen: 14.846 ug/l  
 RT: 12.38 min Scan# 1202  
 Delta R.T. 0.01 min  
 Lab File: VF062480.D  
 Acq: 12 May 2019 1:59

Tgt Ion:105 Resp: 75  
 Ion Ratio Lower Upper  
 105 100  
 134 197.3 9.8 29.5#

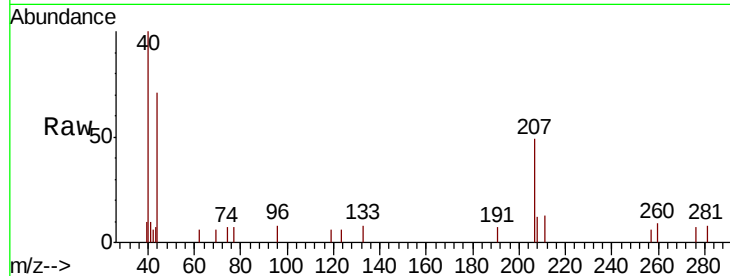




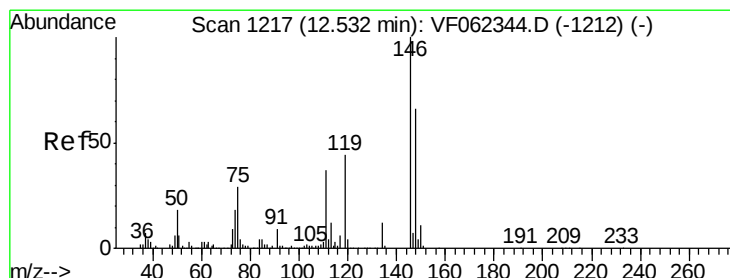
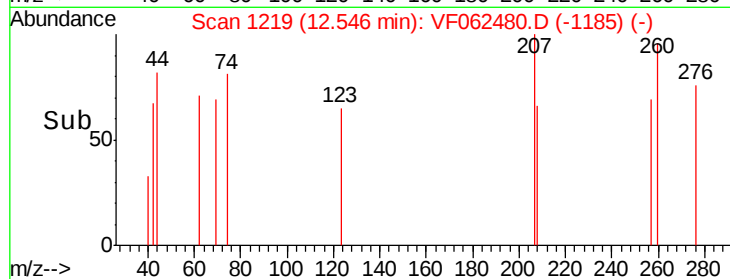
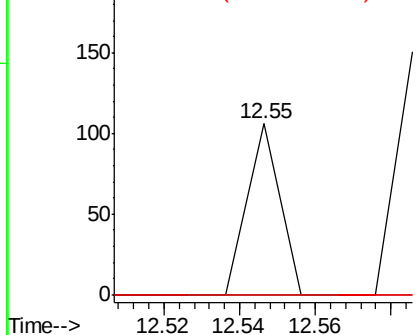
#86  
 p-Isopropyltoluene  
 Concen: 13.423 ug/l  
 RT: 12.55 min Scan# 1219  
 Delta R.T. 0.03 min  
 Lab File: VF062480.D  
 Acq: 12 May 2019 1:59

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P021-SS003-1824-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 0.0   | 12.9  | 38.7# |
| 91      | 0.0   | 12.3  | 36.8# |

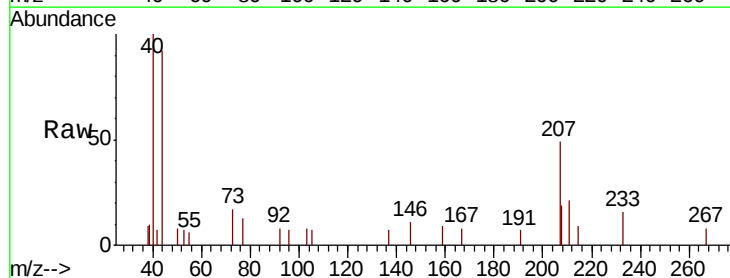


Abundance Ion 119.00 (118.70 to 119.70): V  
 Ion 134.00 (133.70 to 134.70): V  
 Ion 91.00 (90.70 to 91.70): V

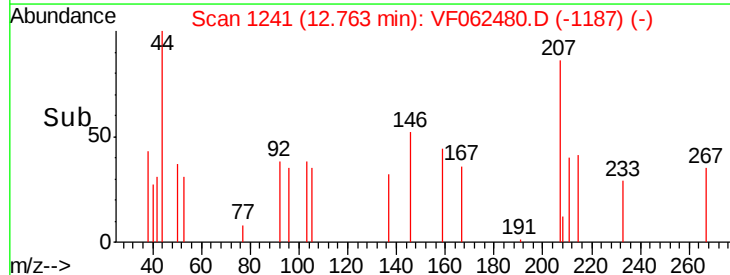
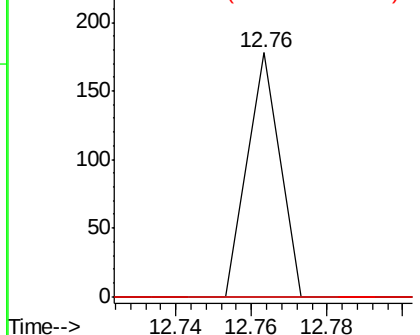


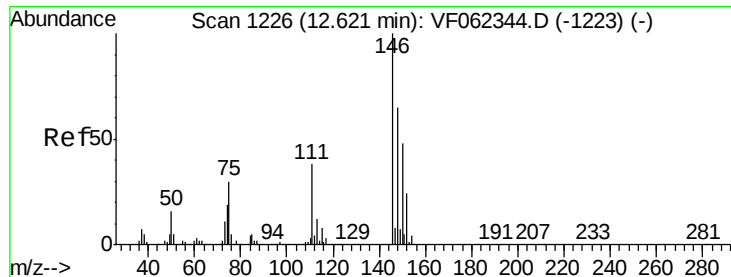
#87  
 1,3-Dichlorobenzene  
 Concen: 48.620 ug/l  
 RT: 12.76 min Scan# 1241  
 Delta R.T. 0.23 min  
 Lab File: VF062480.D  
 Acq: 12 May 2019 1:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 18.3  | 54.8# |
| 148     | 0.0   | 32.3  | 96.9# |



Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 50.375 ug/l

RT: 12.76 min Scan# 1241

Delta R.T. 0.14 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

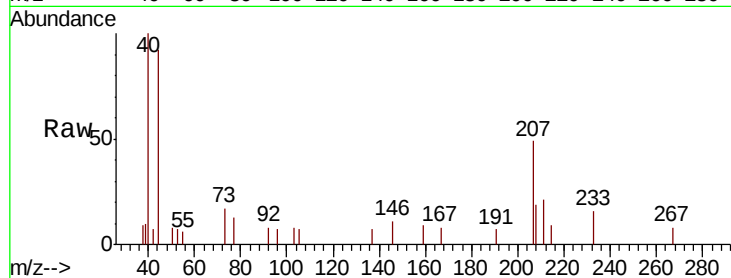
Tot Ion:146 Resp: 105

Ion Ratio Lower Upper

146 100

111 0.0 18.8 56.3#

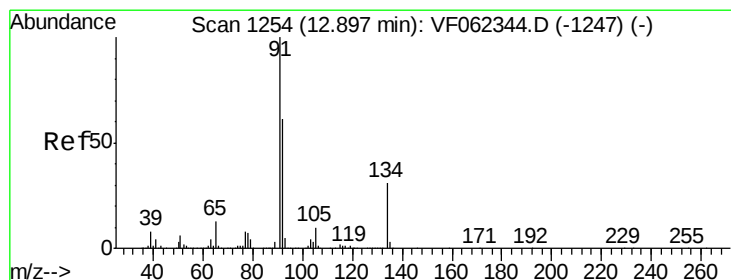
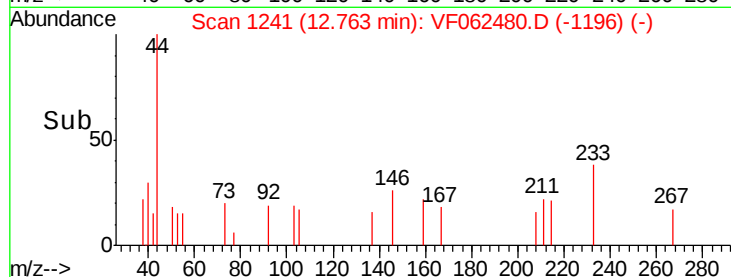
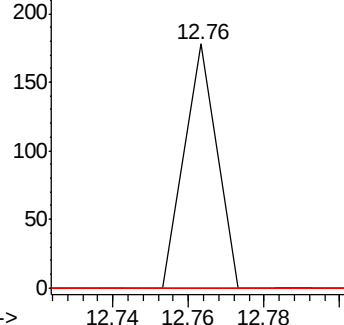
148 0.0 32.2 96.6#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 14.369 ug/l

RT: 12.88 min Scan# 1253

Delta R.T. -0.02 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

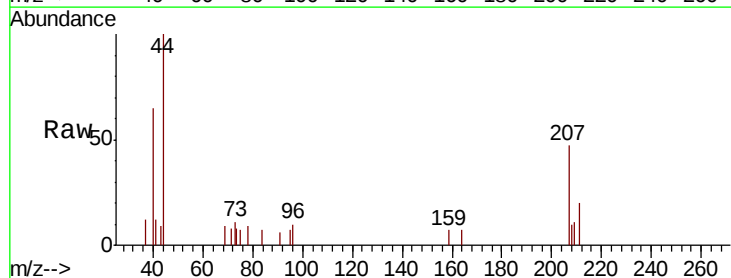
Tgt Ion: 91 Resp: 60

Ion Ratio Lower Upper

91 100

92 0.0 30.0 90.0#

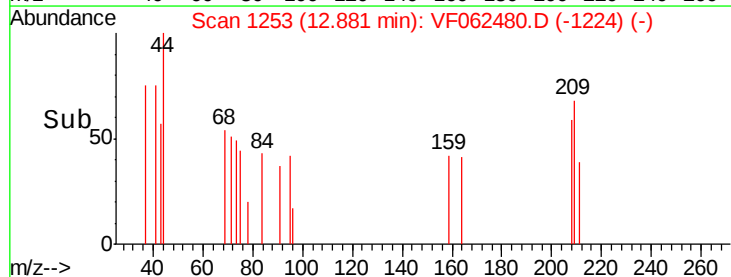
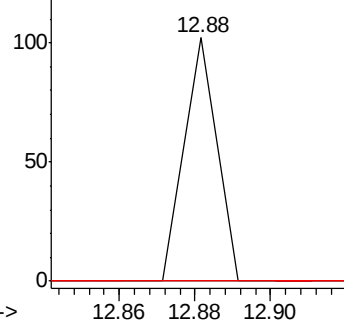
134 0.0 14.1 42.4#

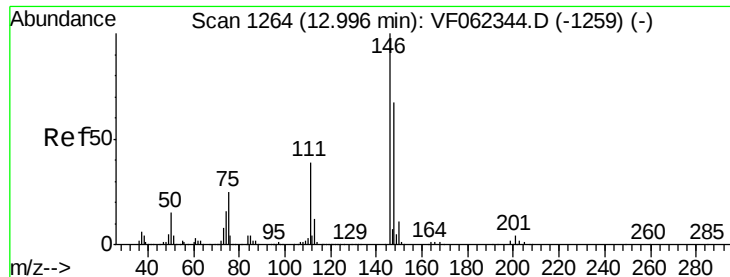


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 34.923 ug/l

RT: 13.04 min Scan# 1269

Delta R.T. 0.04 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

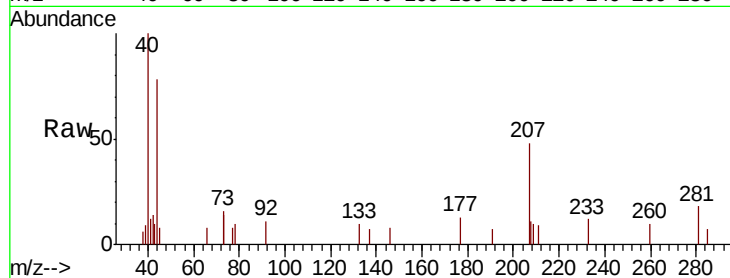
Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

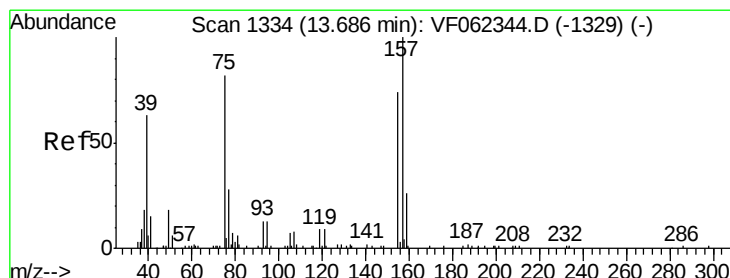
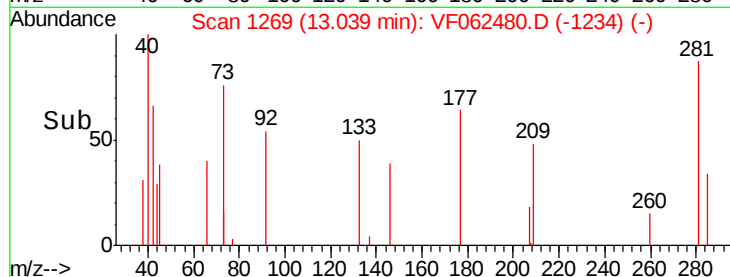
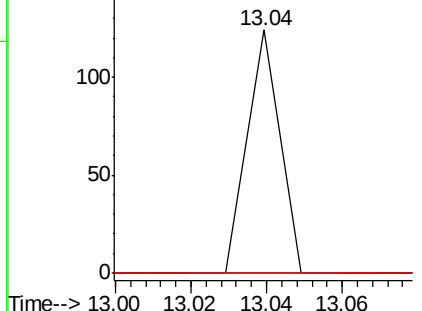
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 146   | Resp: | 73    |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 0.0   | 20.0  | 60.0# |
| 148      | 0.0   | 33.1  | 99.5# |



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 404.948 ug/l

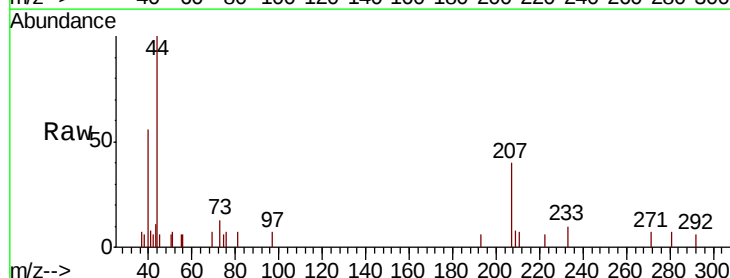
RT: 13.67 min Scan# 1333

Delta R.T. -0.02 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

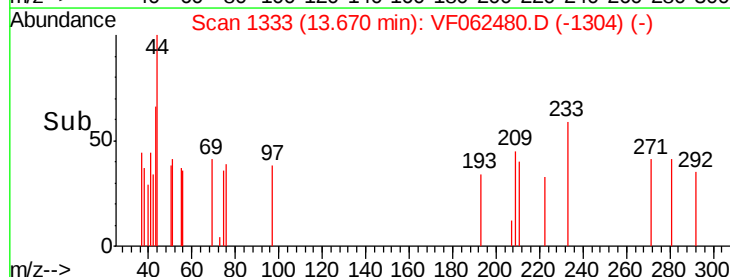
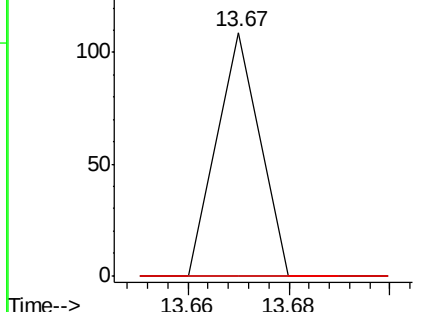
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 64     |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 0.0   | 51.8  | 155.4# |
| 157      | 0.0   | 67.3  | 201.8# |

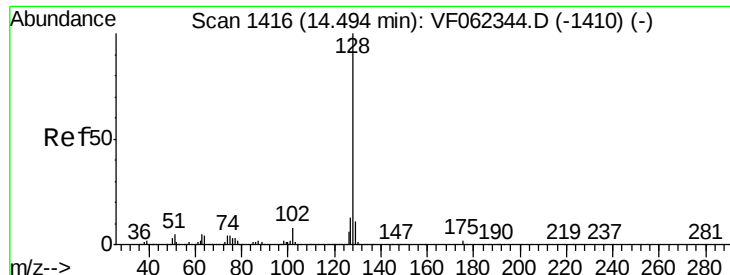


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 29.091 ug/l

RT: 14.45 min Scan# 1412

Delta R.T. -0.05 min

Lab File: VF062480.D

Acq: 12 May 2019 1:59

Instrument :

MSVOA\_F

ClientSampleId :

P021-SS003-1824-01

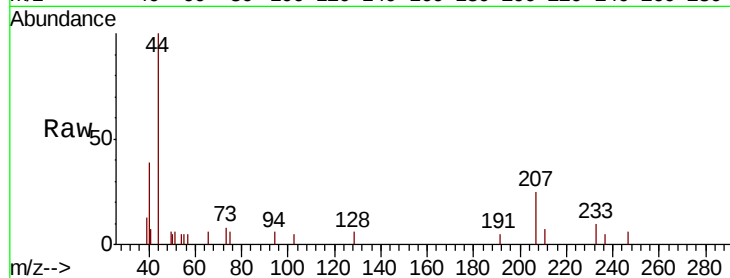
Tot Ion:128 Resp: 82

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 12.8#



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

