

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\  
 Data File : VL036713.D  
 Acq On : 7 Apr 2021 1:05  
 Operator : SY/AP  
 Sample : M1977-10 2X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 UP-SG-7(2021)

Quant Time: Apr 07 04:30:09 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 25 09:42:40 2021  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

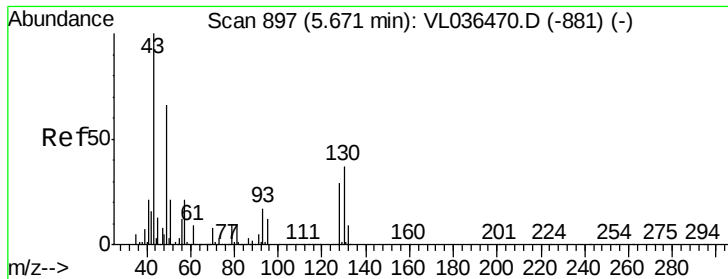
| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1268320  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3160629  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 2852556  | 10.00 | ppbv  | 0.00     |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------|--------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2263335  | 9.96     | ppbv | 0.00   |          |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.60% |          |

| Target Compounds           | R.T.  | QIon | Response | Conc     | Units  | Ovalue |
|----------------------------|-------|------|----------|----------|--------|--------|
| 2) Dichlorodifluoromethane | 3.04  | 85   | 20936    | 0.101    | ppbv   | 99     |
| 3) Chlorodifluoromethane   | 2.98  | 51   | 40106    | 0.169    | ppbv # | 91     |
| 4) Chloromethane           | 3.14  | 50   | 5631     | 0.067    | ppbv # | 70     |
| 9) Propene                 | 3.01  | 41   | 187333   | 2.480    | ppbv   | 93     |
| 10) Heptane                | 8.12  | 43   | 77552    | 0.403    | ppbv # | 28     |
| 11) Trichlorofluoromethane | 3.95  | 101  | 28294    | 0.134    | ppbv # | 70     |
| 13) Ethanol                | 3.62  | 45   | 13259968 | 1473.967 | ppbv   | 95     |
| 15) Acetone                | 3.84  | 43   | 11936311 | 95.619   | ppbv   | 96     |
| 16) 1,3-Butadiene          | 3.32  | 39   | 24795    | 0.285    | ppbv # | 38     |
| 17) tert-Butyl alcohol     | 4.32  | 59   | 204138   | 1.879    | ppbv # | 72     |
| 19) Isopropyl Alcohol      | 3.99  | 45   | 4737887  | 68.995   | ppbv # | 95     |
| 20) Methylene Chloride     | 4.34  | 84   | 280984   | 4.808    | ppbv   | 93     |
| 21) Allyl Chloride         | 4.36  | 41   | 133195   | 1.338    | ppbv # | 38     |
| 23) Vinyl Acetate          | 5.05  | 43   | 630525   | 2.953    | ppbv # | 1      |
| 25) Ethyl Acetate          | 5.68  | 43   | 455178   | 1.534    | ppbv # | 79     |
| 26) Hexane                 | 5.68  | 57   | 609058   | 4.422    | ppbv # | 47     |
| 30) Cyclohexane            | 7.13  | 84   | 33329    | 0.298    | ppbv # | 1      |
| 34) 2-Butanone             | 5.24  | 43   | 70016    | 0.454    | ppbv # | 43     |
| 36) Benzene                | 6.89  | 78   | 166023   | 0.570    | ppbv # | 93     |
| 39) 1,2-Dichloropropane    | 7.18  | 63   | 815431   | 6.896    | ppbv # | 23     |
| 40) 1,4-Dioxane            | 7.84  | 88   | 2182     | 0.079    | ppbv # | 1      |
| 41) Tetrahydrofuran        | 6.06  | 42   | 10077    | 0.142    | ppbv # | 63     |
| 44) 2,2,4-Trimethylpentane | 7.87  | 57   | 2408042  | 4.694    | ppbv   | 98     |
| 51) 2-Hexanone             | 10.06 | 43   | 4479     | 0.040    | ppbv # | 30     |
| 53) Toluene                | 9.80  | 91   | 171811   | 0.553    | ppbv   | 98     |
| 58) Ethyl Benzene          | 12.72 | 91   | 54704    | 0.132    | ppbv   | 98     |
| 59) m/p-Xylene             | 12.99 | 91   | 15262    | 0.042    | ppbv # | 32     |
| 60) o-Xylene               | 13.70 | 91   | 16354    | 0.047    | ppbv # | 31     |
| 61) Styrene                | 13.53 | 104  | 29172    | 0.166    | ppbv # | 15     |
| 62) Isopropylbenzene       | 14.67 | 105  | 14445    | 0.031    | ppbv # | 49     |
| 64) n-propylbenzene        | 15.56 | 120  | 14115    | 0.122    | ppbv   | 79     |
| 65) tert-Butylbenzene      | 16.76 | 119  | 13166    | 0.032    | ppbv # | 17     |
| 66) Benzyl Chloride        | 16.99 | 91   | 2059     | 0.046    | ppbv # | 1      |
| 69) p-Isopropyltoluene     | 17.66 | 119  | 57757    | 0.128    | ppbv # | 81     |
| 70) n-Butylbenzene         | 18.55 | 91   | 15986    | 0.034    | ppbv # | 33     |
| 72) 4-Ethyltoluene         | 15.84 | 105  | 36470    | 0.095    | ppbv # | 32     |
| 73) 1,3,5-Trimethylbenzene | 16.00 | 105  | 48321    | 0.135    | ppbv   | 87     |
| 74) 1,2,4-Trimethylbenzene | 16.77 | 105  | 232667   | 0.607    | ppbv # | 67     |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

UP-SG-7(2021)

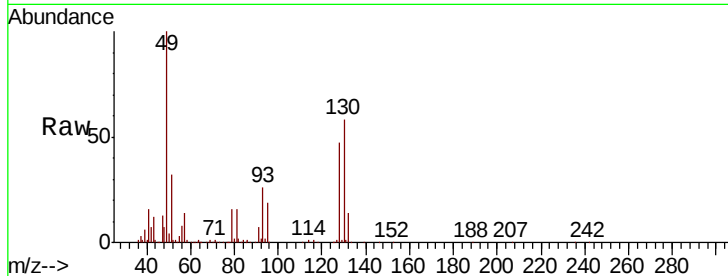
Tot Ion: 49 Resp: 1268320

Ion Ratio Lower Upper

49 100

128 46.4 23.5 70.6

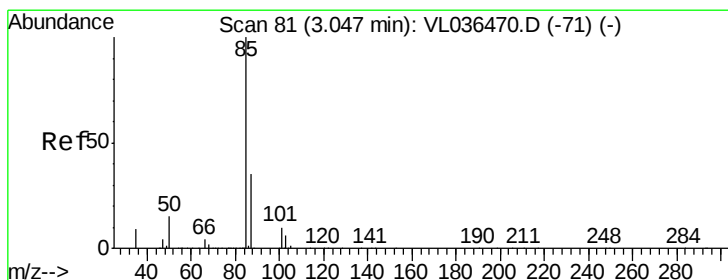
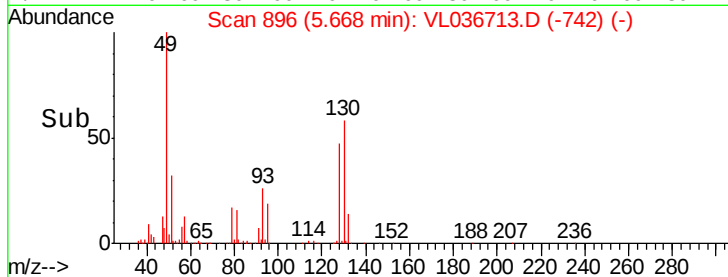
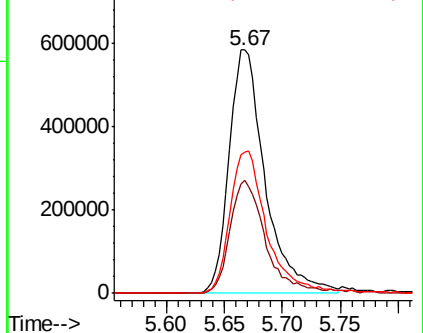
130 60.1 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.101 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036713.D

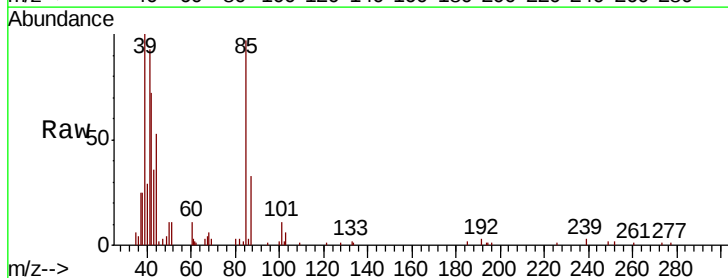
Acq: 7 Apr 2021 1:05

Tgt Ion: 85 Resp: 20936

Ion Ratio Lower Upper

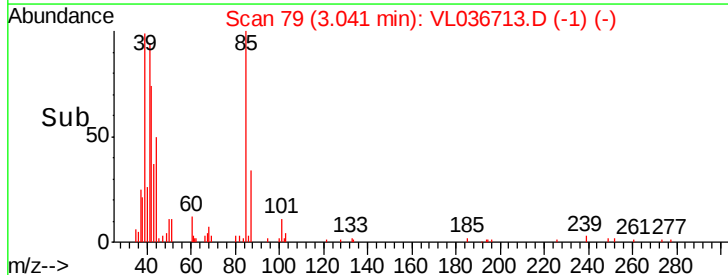
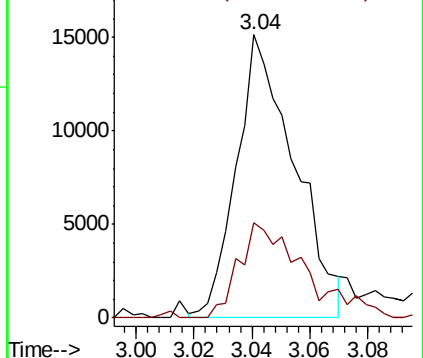
85 100

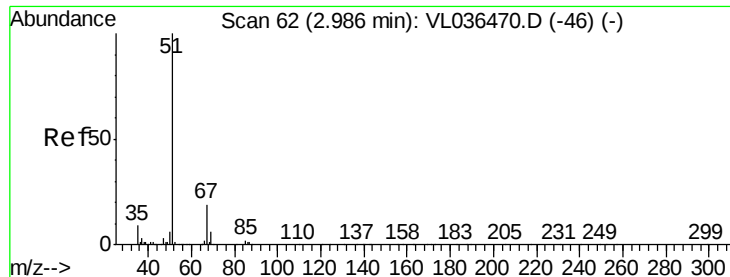
87 34.1 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.169 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

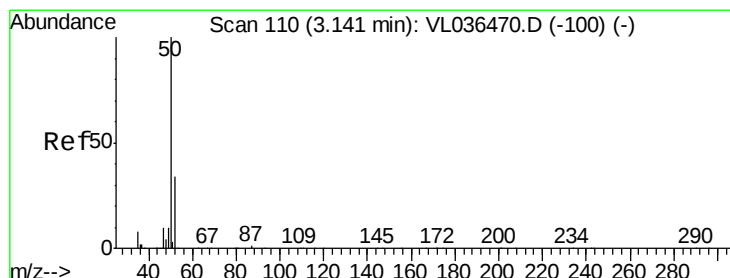
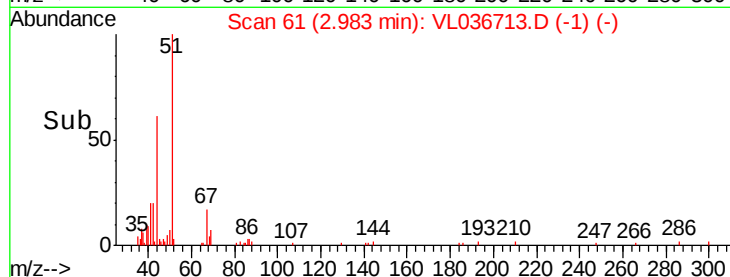
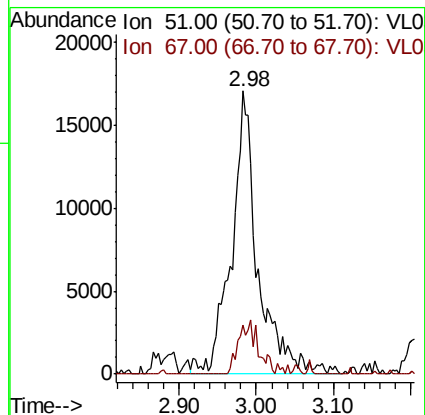
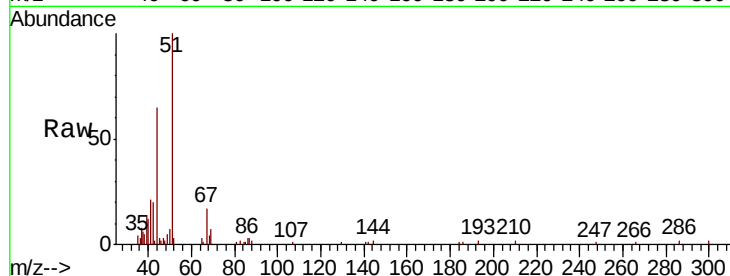
UP-SG-7(2021)

Tot Ion: 51 Resp: 40106

Ion Ratio Lower Upper

51 100

67 14.3 14.7 22.1#



#4

Chloromethane

Concen: 0.067 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036713.D

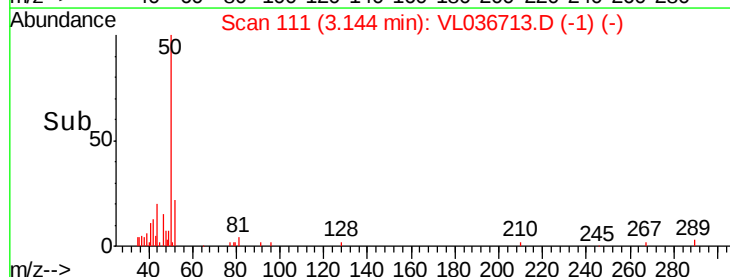
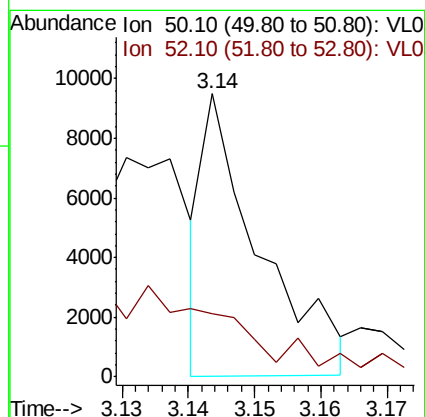
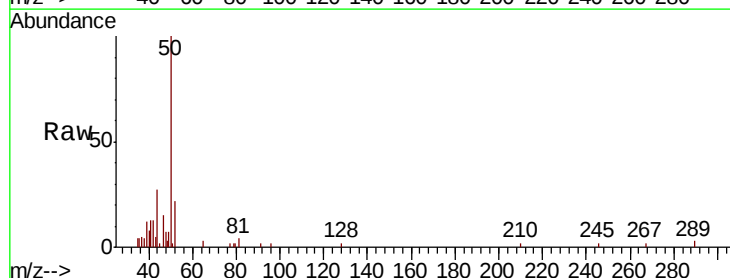
Acq: 7 Apr 2021 1:05

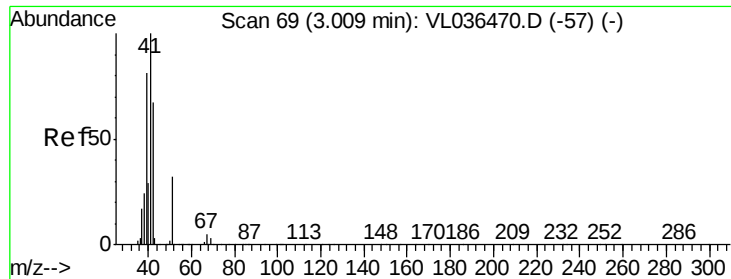
Tgt Ion: 50 Resp: 5631

Ion Ratio Lower Upper

50 100

52 16.5 27.0 40.6#





#9

Propene

Concen: 2.480 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

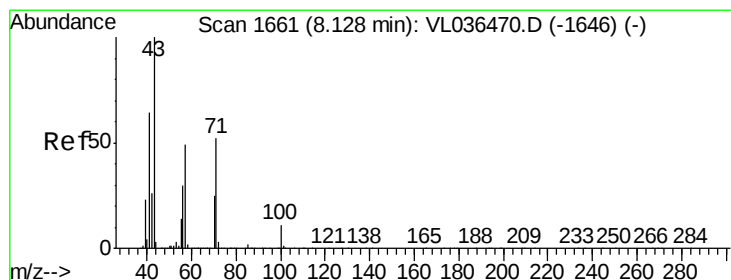
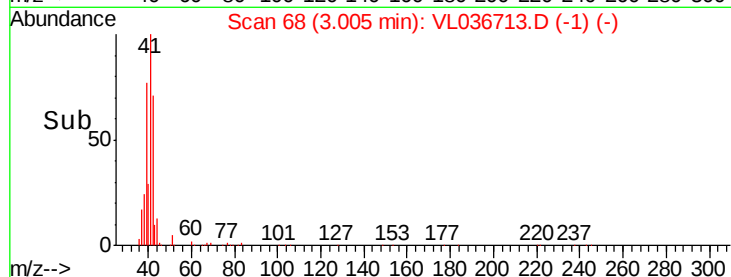
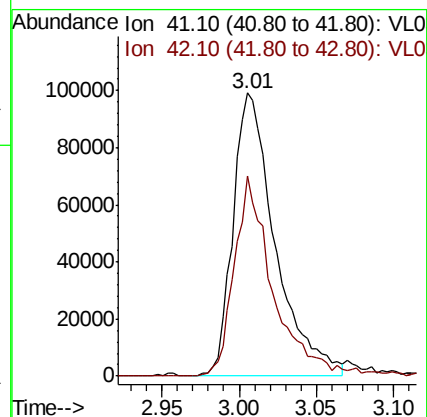
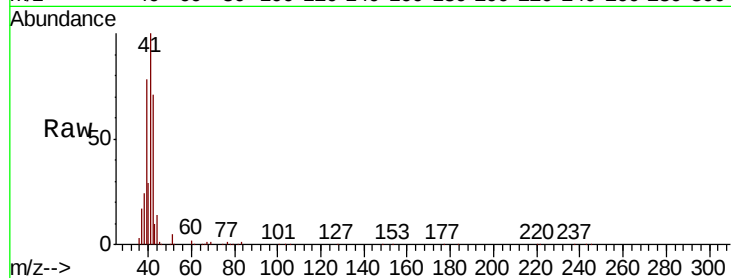
UP-SG-7(2021)

Tot Ion: 41 Resp: 187333

Ion Ratio Lower Upper

41 100

42 65.6 57.0 85.4



#10

Heptane

Concen: 0.403 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL036713.D

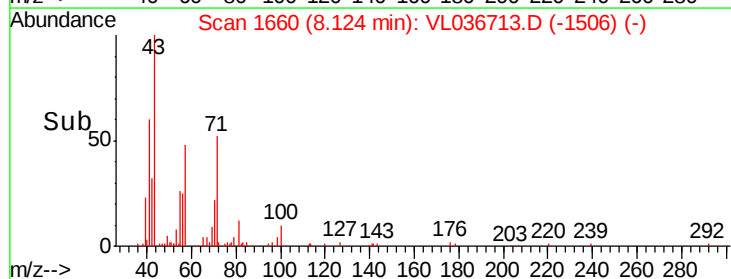
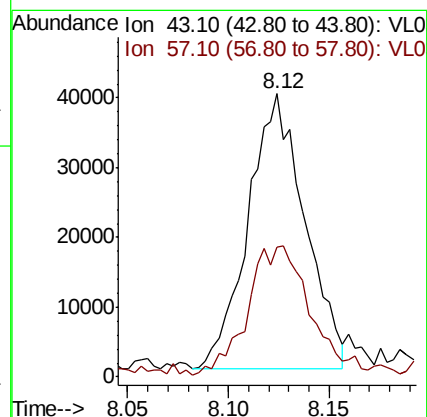
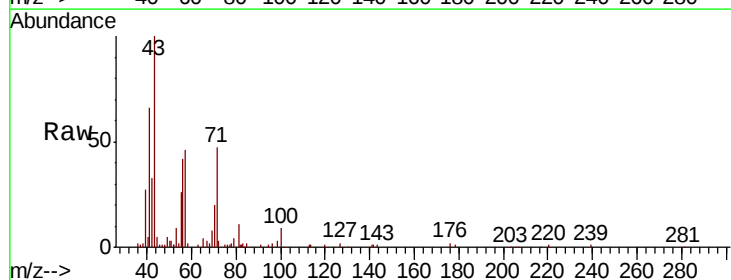
Acq: 7 Apr 2021 1:05

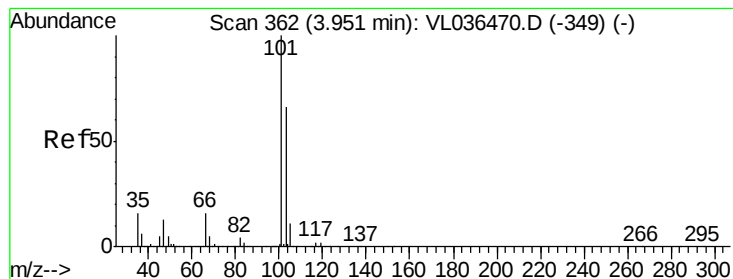
Tgt Ion: 43 Resp: 77552

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#





#11

Trichlorofluoromethane

Concen: 0.134 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

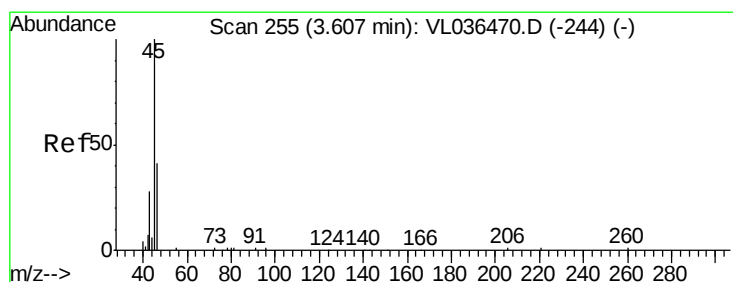
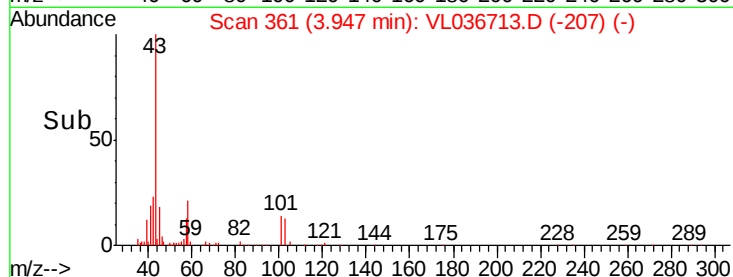
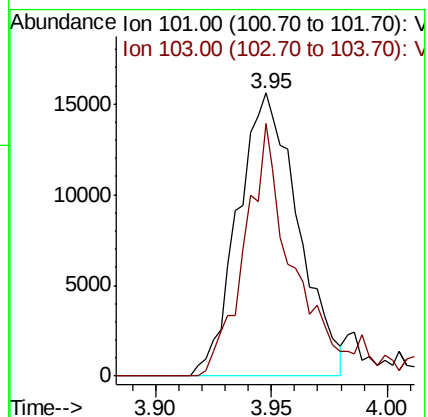
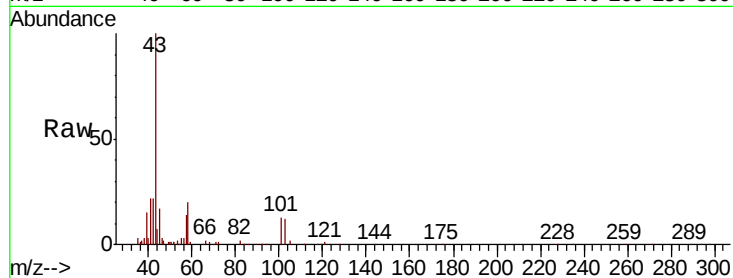
UP-SG-7(2021)

Tot Ion:101 Resp: 28294

Ion Ratio Lower Upper

101 100

103 89.3 52.5 78.7#



#13

Ethanol

Concen: 1473.967 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL036713.D

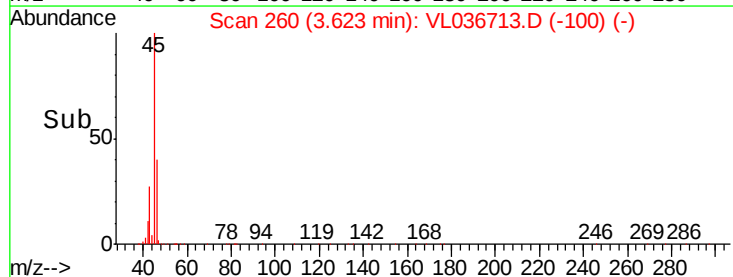
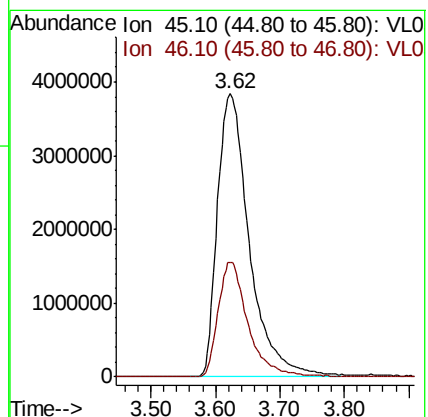
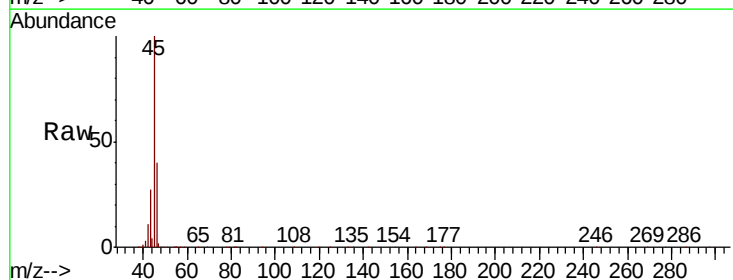
Acq: 7 Apr 2021 1:05

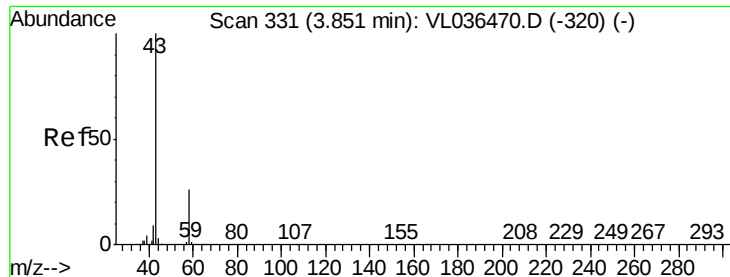
Tgt Ion: 45 Resp:13259968

Ion Ratio Lower Upper

45 100

46 38.2 16.6 66.2





#15

Acetone

Concen: 95.619 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

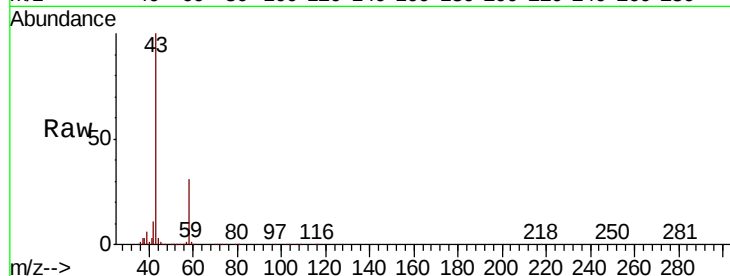
UP-SG-7(2021)

Tot Ion: 43 Resp: 11936311

Ion Ratio Lower Upper

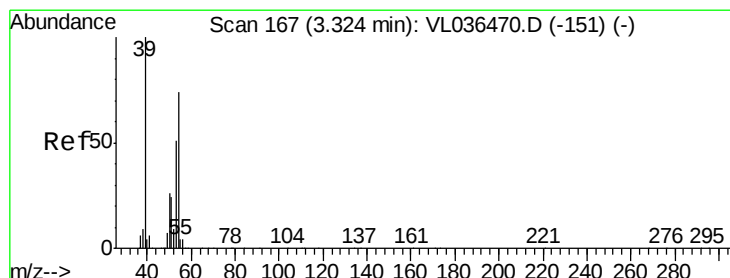
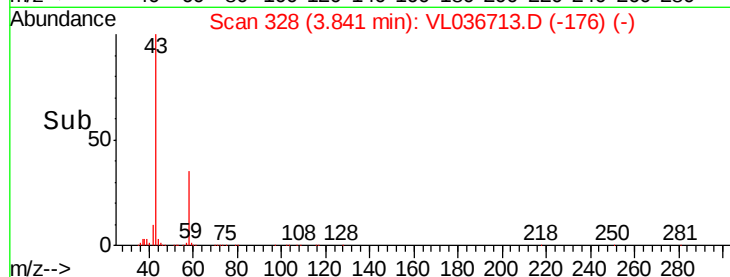
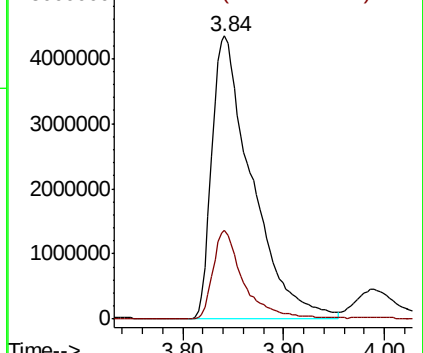
43 100

58 24.4 21.2 31.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.285 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL036713.D

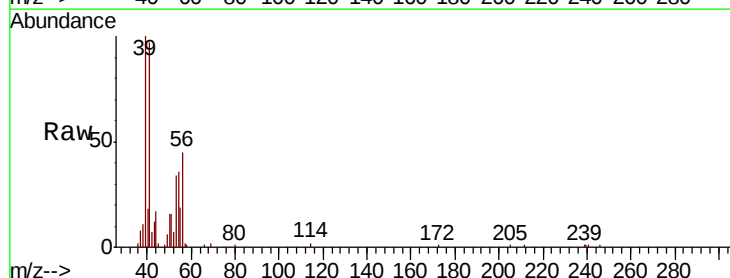
Acq: 7 Apr 2021 1:05

Tgt Ion: 39 Resp: 24795

Ion Ratio Lower Upper

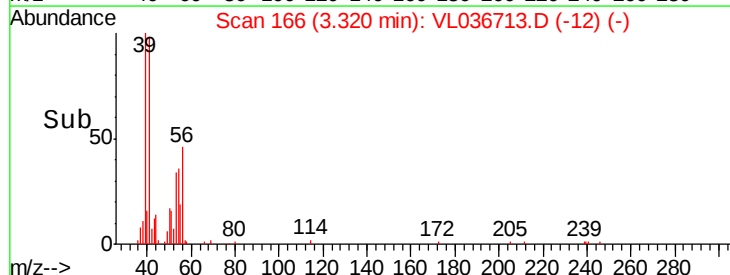
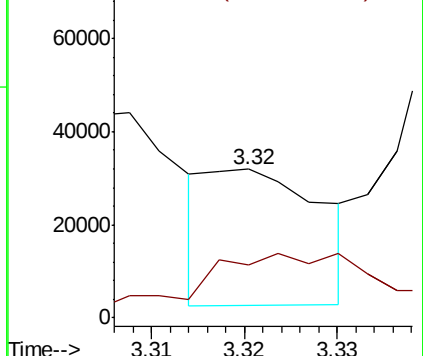
39 100

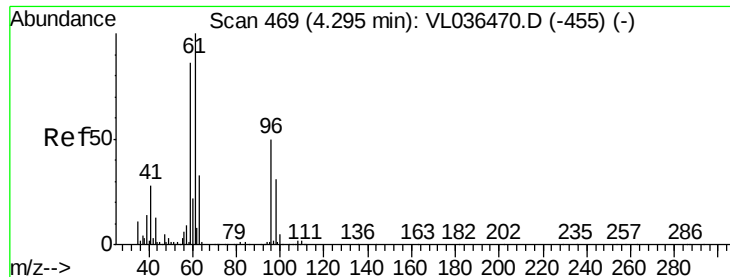
54 125.6 58.8 88.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 1.879 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.02 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

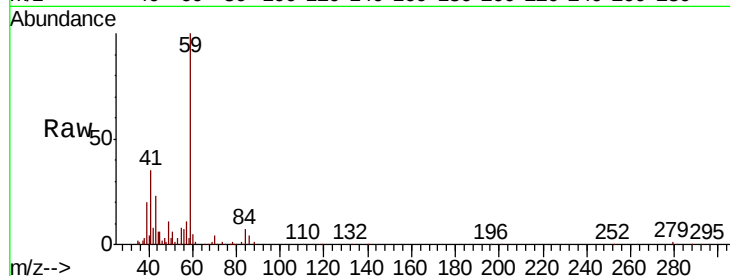
UP-SG-7(2021)

Tot Ion: 59 Resp: 204138

Ion Ratio Lower Upper

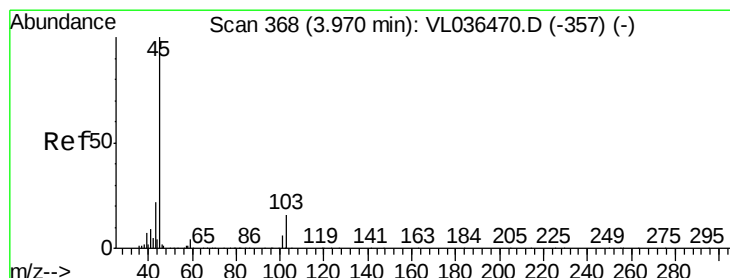
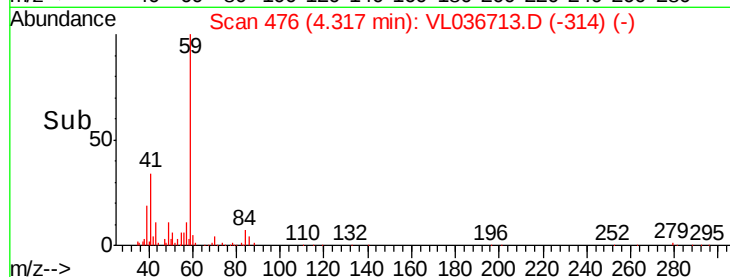
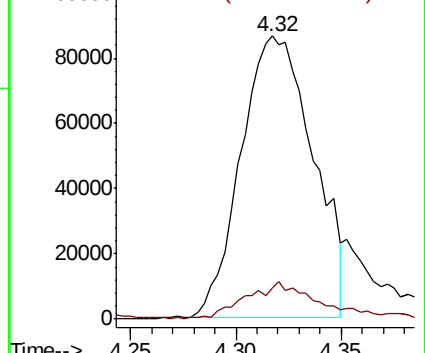
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 68.995 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.02 min

Lab File: VL036713.D

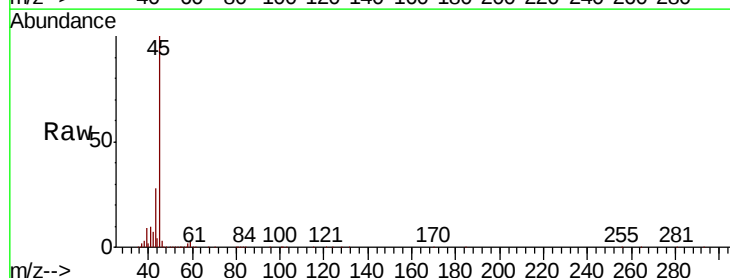
Acq: 7 Apr 2021 1:05

Tgt Ion: 45 Resp: 4737887

Ion Ratio Lower Upper

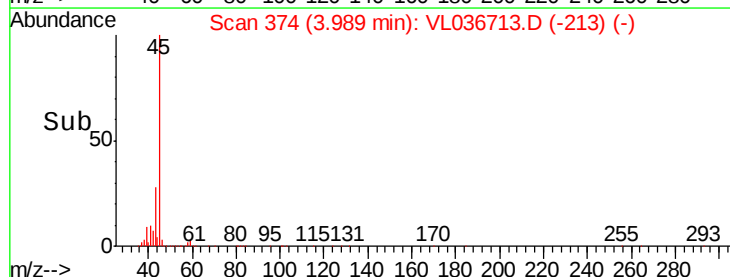
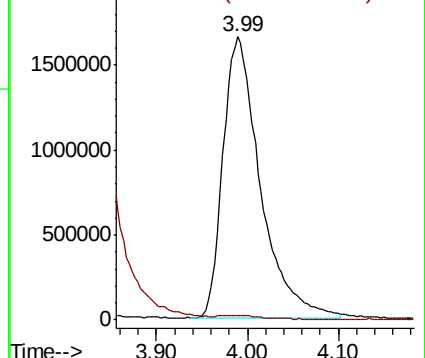
45 100

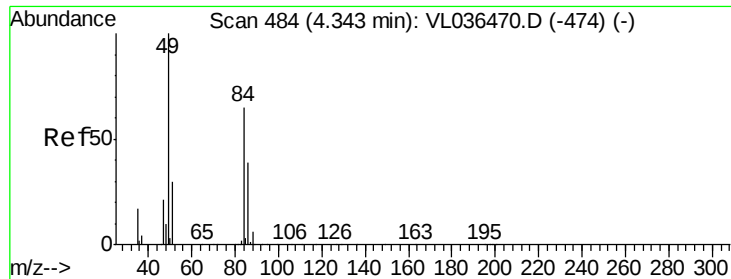
58 1.9 2.9 4.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

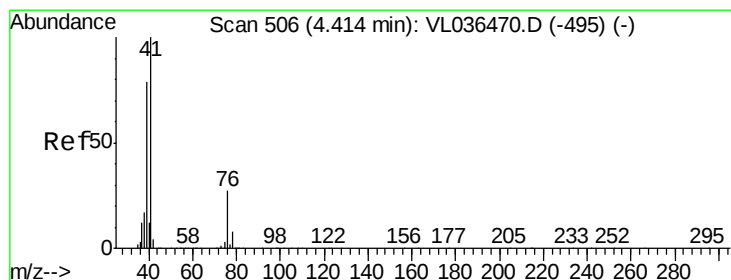
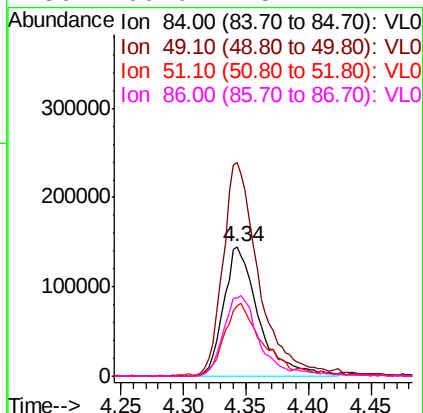
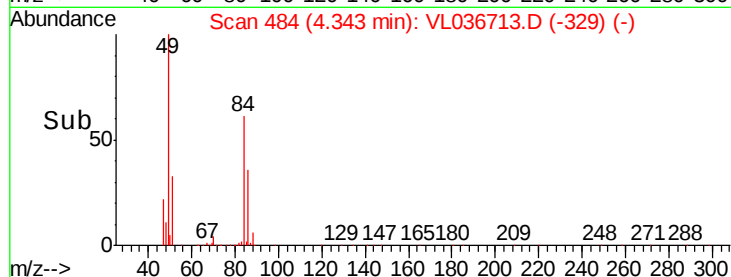
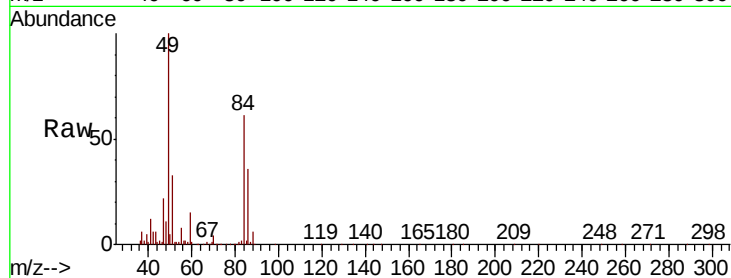




#20  
Methvlene Chloride  
Concen: 4.808 ppbv  
RT: 4.34 min Scan# 484  
Delta R.T. -0.00 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

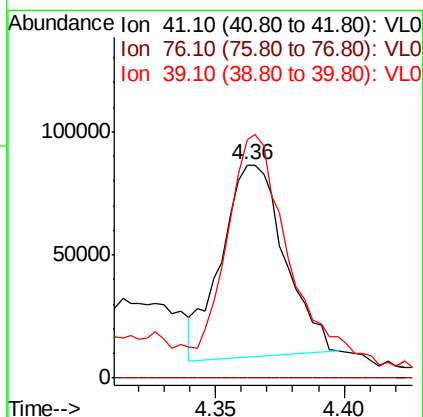
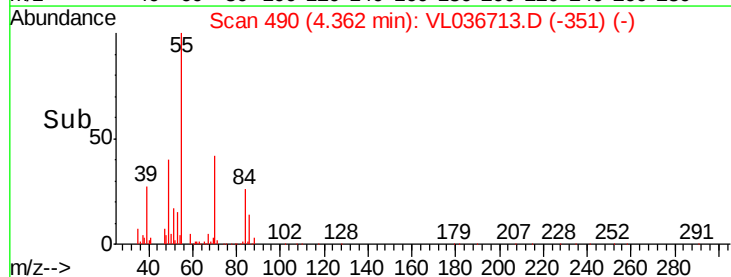
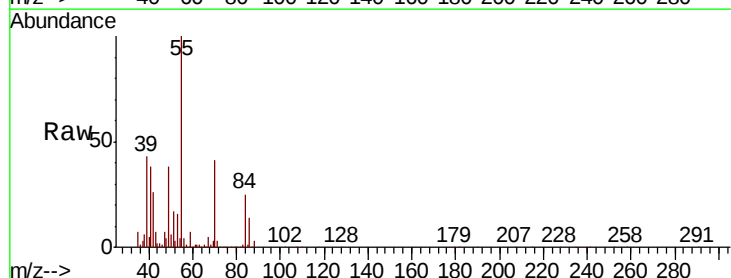
Instrument :  
MSVOA\_L  
ClientSampleId :  
UP-SG-7(2021)

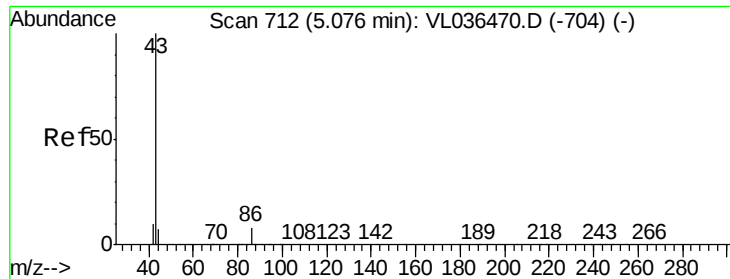
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 280984 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 164.6 | 122.9 | 184.3  |
| 51       | 52.5  | 36.9  | 55.3   |
| 86       | 60.0  | 48.2  | 72.4   |



#21  
Allyl Chloride  
Concen: 1.338 ppbv  
RT: 4.36 min Scan# 490  
Delta R.T. -0.05 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 133195 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 76       | 0.0   | 22.9  | 34.3#  |
| 39       | 142.2 | 67.3  | 100.9# |





#23

Vinyl Acetate

Concen: 2.953 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.02 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

UP-SG-7(2021)

Tot Ion: 43 Resp: 630525

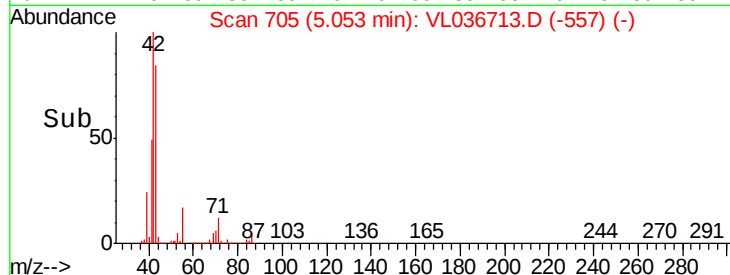
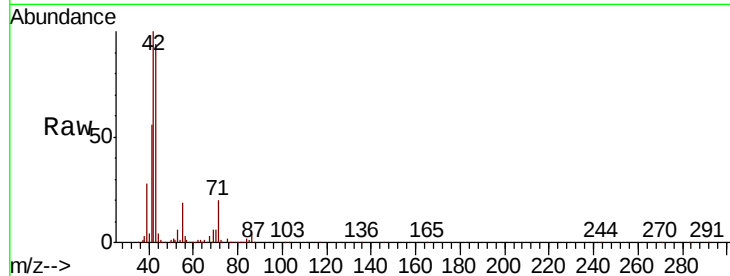
Ion Ratio Lower Upper

43 100

86 4.0 5.4 8.0#

42 106.6 8.5 12.7#

44 3.4 4.6 7.0#

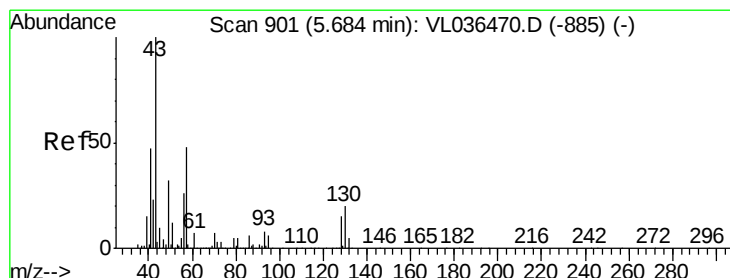
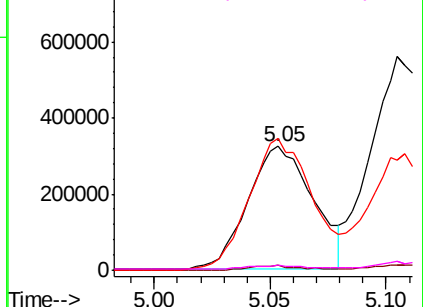


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 1.534 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Tgt Ion: 43 Resp: 455178

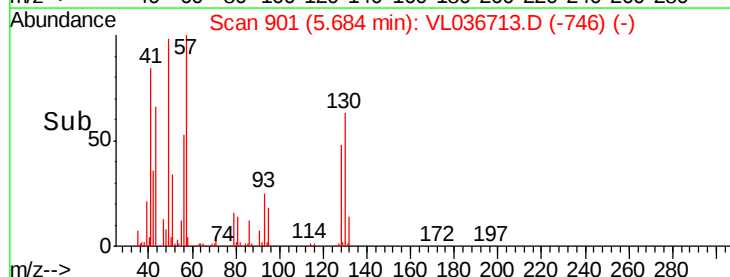
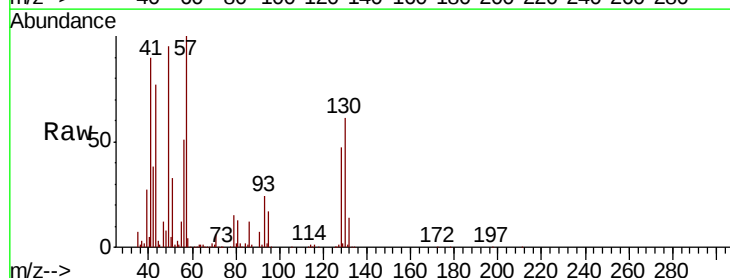
Ion Ratio Lower Upper

43 100

45 1.4 7.9 11.9#

61 0.4 7.4 11.2#

70 2.1 5.1 7.7#

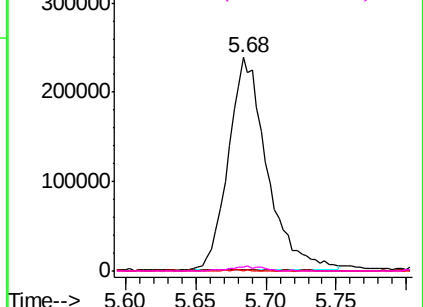


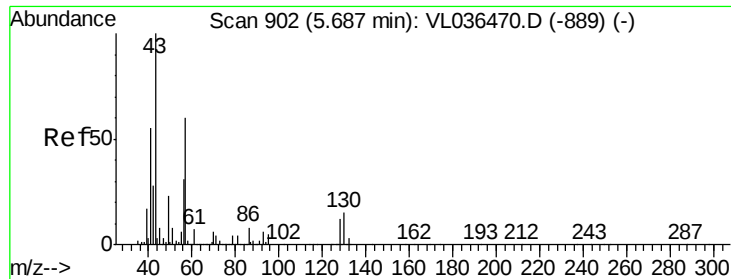
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

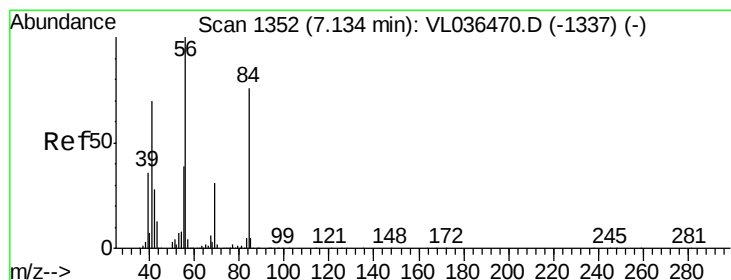
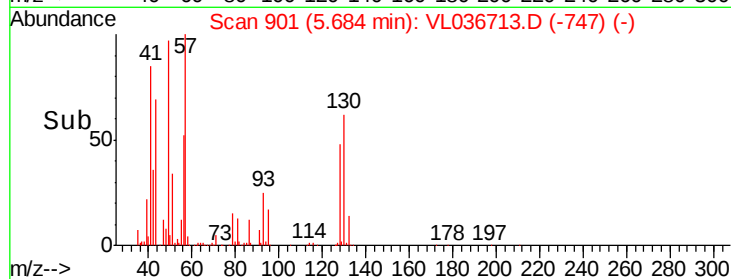
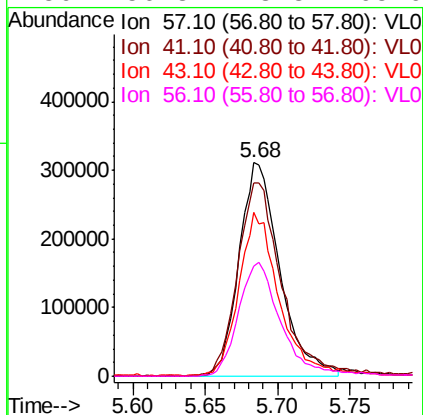
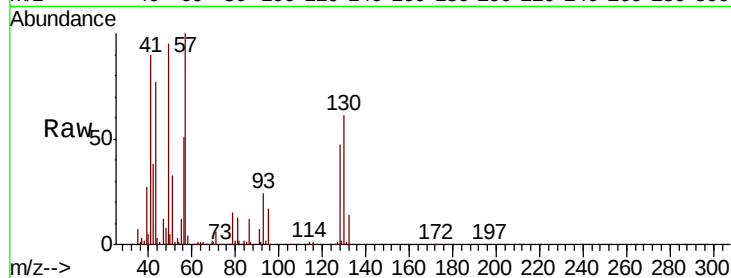




#26  
Hexane  
Concen: 4.422 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

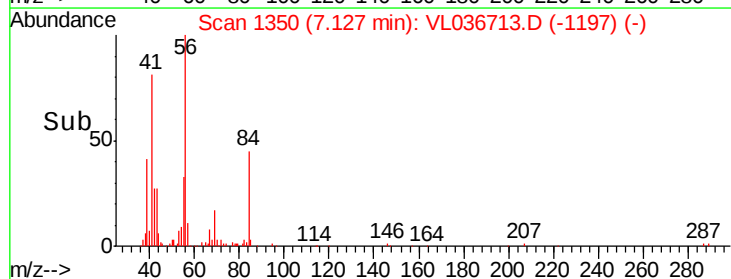
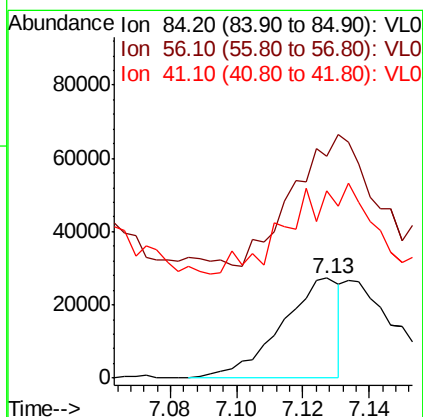
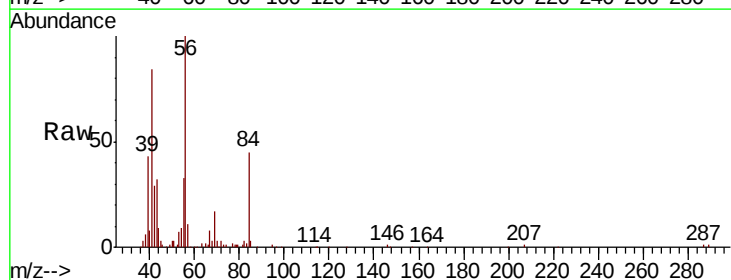
Instrument :  
MSVOA\_L  
ClientSampleId :  
UP-SG-7(2021)

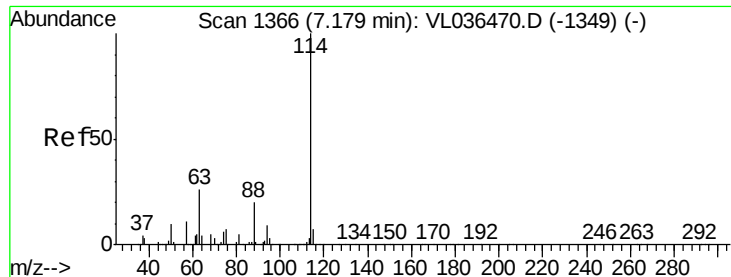
| Tot Ion | 57    | Resp  | 609058 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 57      | 100   |       |        |
| 41      | 98.0  | 77.2  | 115.8  |
| 43      | 76.3  | 173.8 | 260.6# |
| 56      | 56.3  | 43.8  | 65.6   |



#30  
Cyclohexane  
Concen: 0.298 ppbv  
RT: 7.13 min Scan# 1350  
Delta R.T. -0.01 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

| Tgt Ion | 84    | Resp  | 33329  |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 84      | 100   |       |        |
| 56      | 0.0   | 114.6 | 171.8# |
| 41      | 0.0   | 75.3  | 112.9# |

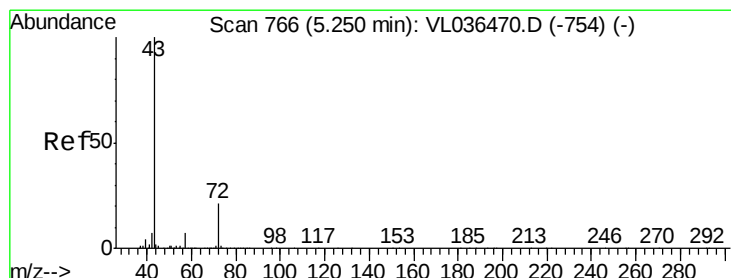
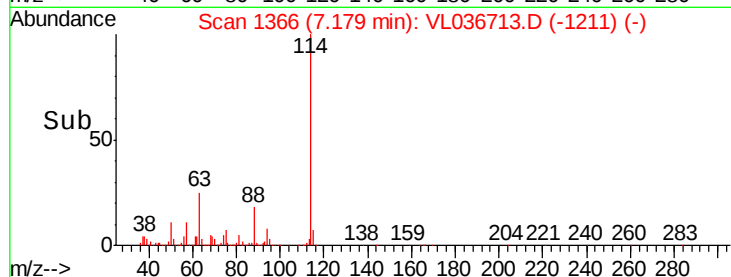
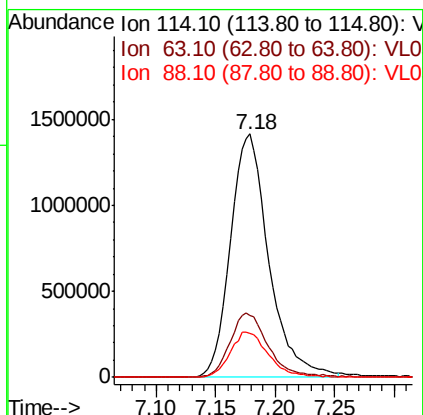
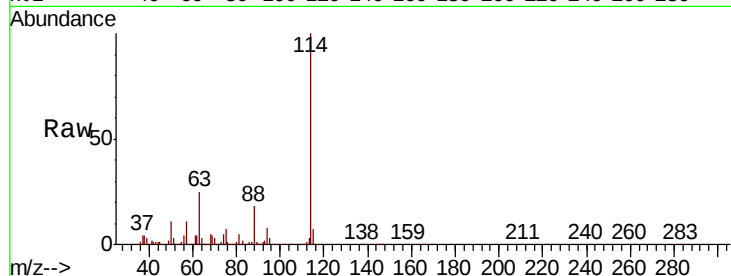




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1366  
 Delta R.T. -0.00 min  
 Lab File: VL036713.D  
 Acq: 7 Apr 2021 1:05

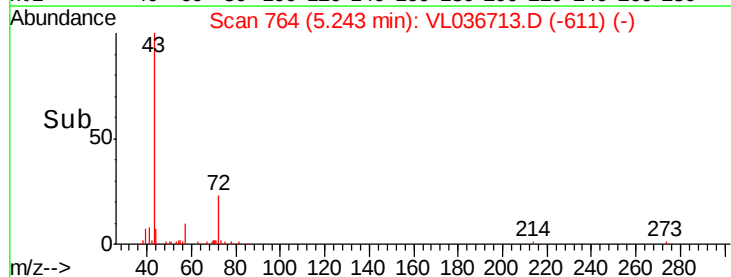
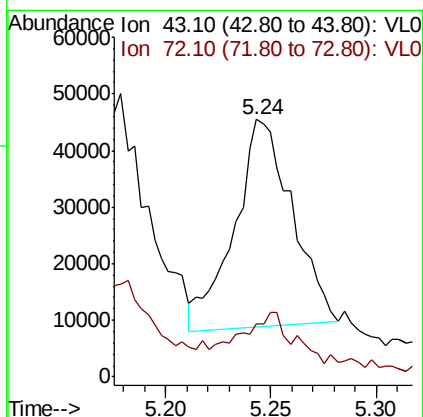
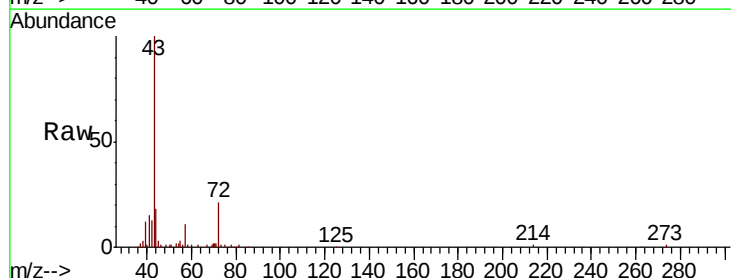
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 UP-SG-7(2021)

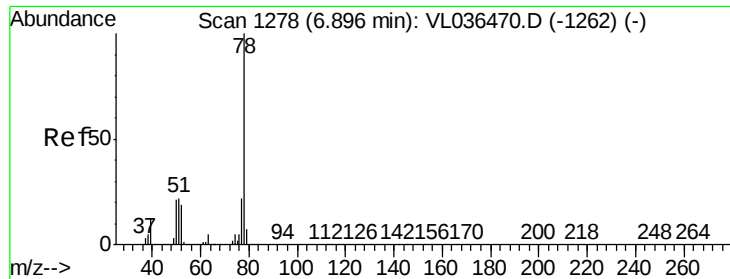
Tot Ion:114 Resp: 3160629  
 Ion Ratio Lower Upper  
 114 100  
 63 26.5 22.4 33.6  
 88 18.8 15.4 23.0



#34  
 2-Butanone  
 Concen: 0.454 ppbv  
 RT: 5.24 min Scan# 764  
 Delta R.T. -0.01 min  
 Lab File: VL036713.D  
 Acq: 7 Apr 2021 1:05

Tgt Ion: 43 Resp: 70016  
 Ion Ratio Lower Upper  
 43 100  
 72 48.4 17.0 25.6#





#36

Benzene

Concen: 0.570 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

UP-SG-7(2021)

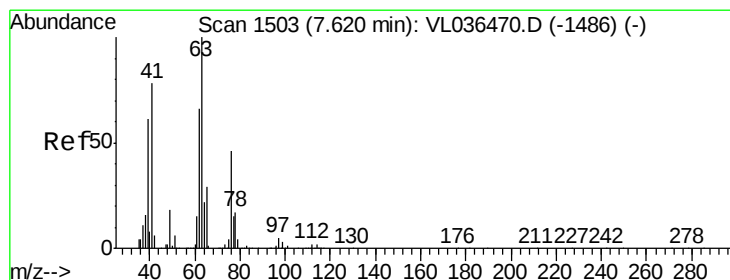
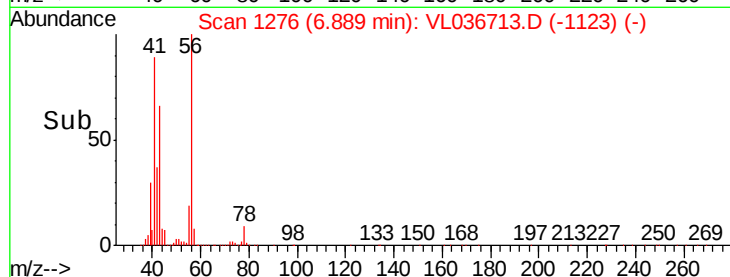
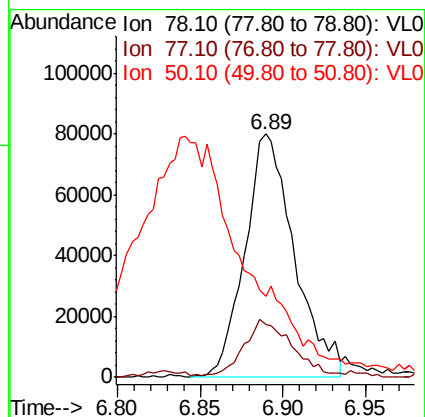
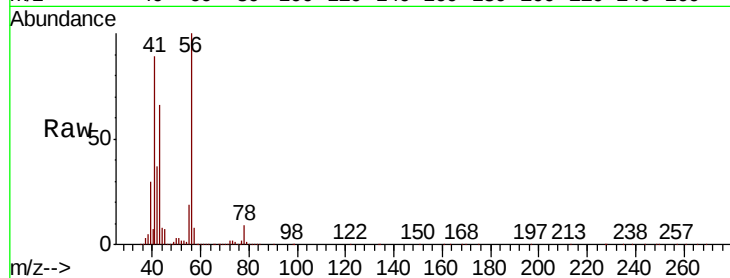
Tot Ion: 78 Resp: 166023

Ion Ratio Lower Upper

78 100

77 21.1 18.0 27.0

50 25.7 16.5 24.7#



#39

1,2-Dichloropropane

Concen: 6.896 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

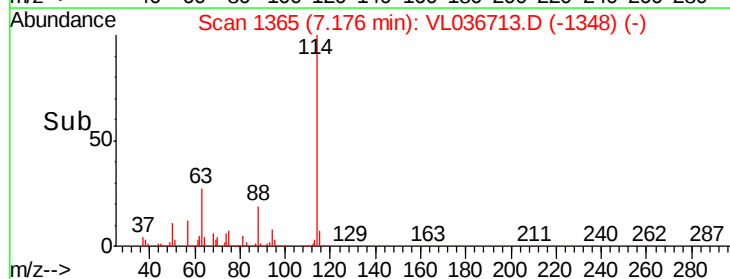
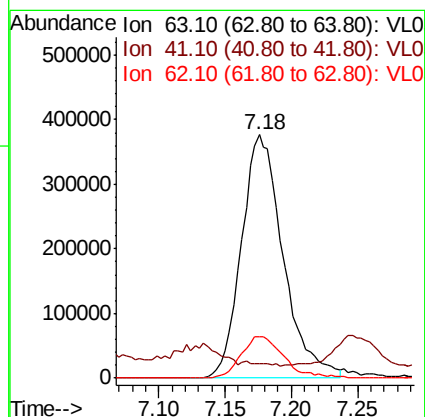
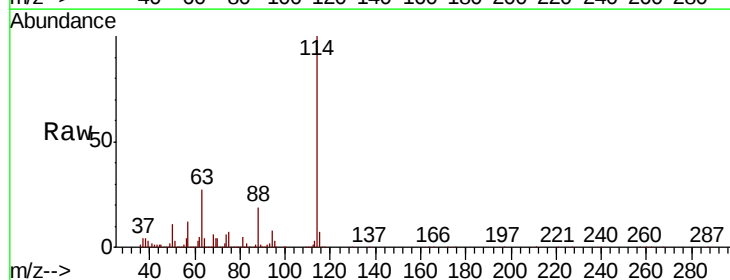
Tgt Ion: 63 Resp: 815431

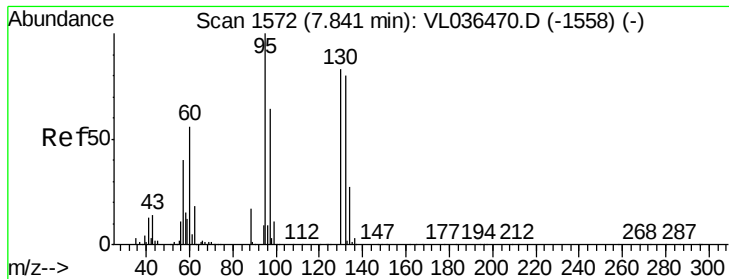
Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 16.8 52.8 79.2#

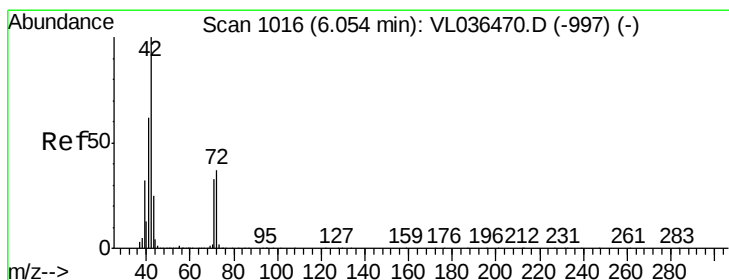
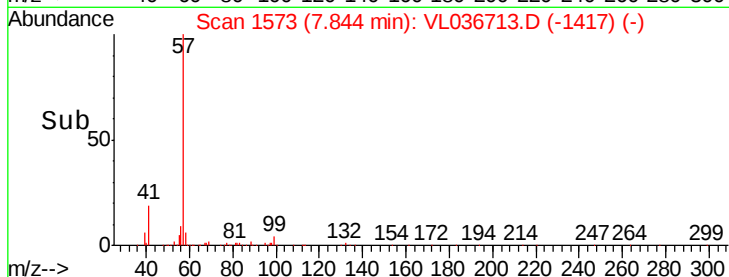
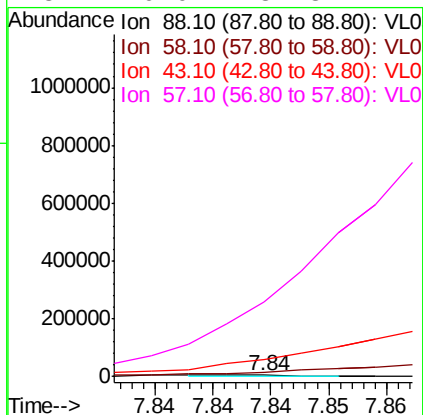
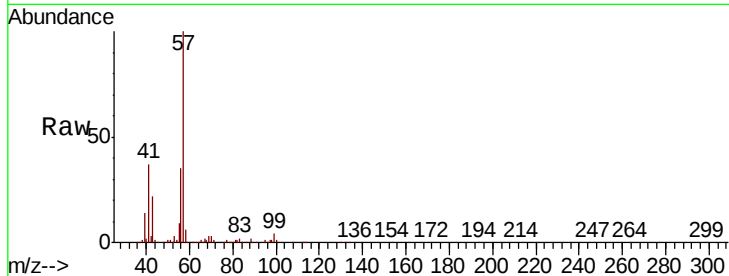




#40  
1,4-Dioxane  
Concen: 0.079 ppbv  
RT: 7.84 min Scan# 1573  
Delta R.T. 0.00 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

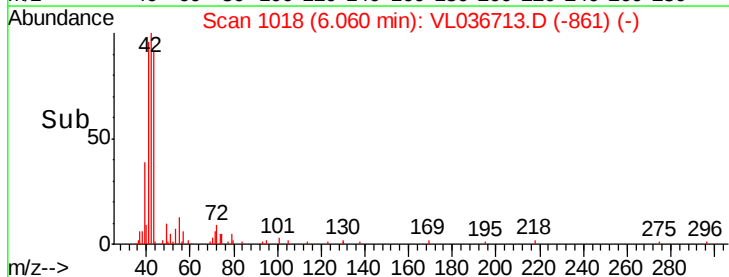
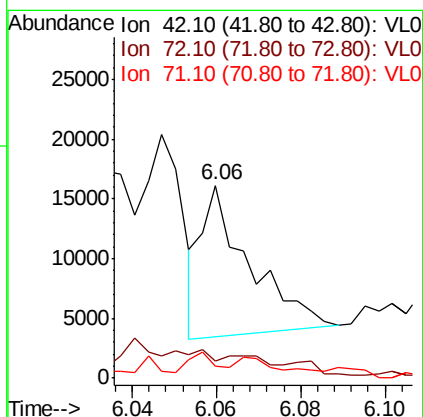
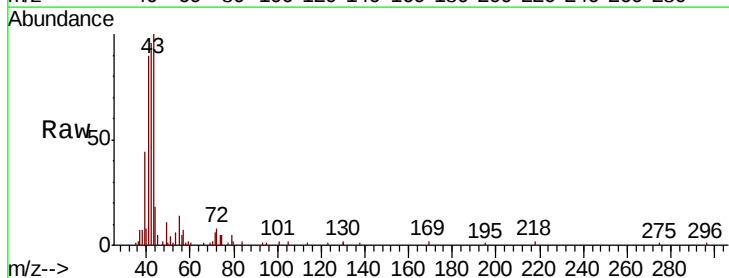
Instrument :  
MSVOA\_L  
ClientSampleId :  
UP-SG-7(2021)

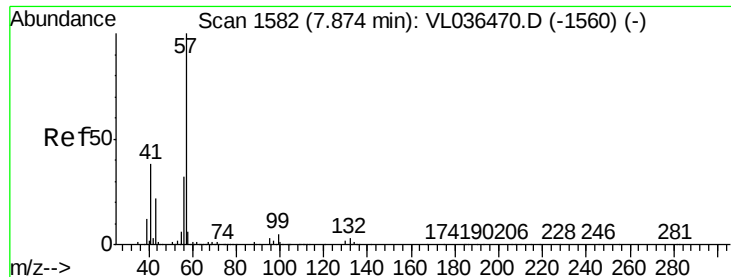
Tot Ion: 88 Resp: 2182  
Ion Ratio Lower Upper  
88 100  
58 0.0 134.1 201.1#  
43 0.0 346.6 520.0#  
57 0.0 1481.8 2222.8#



#41  
Tetrahydrofuran  
Concen: 0.142 ppbv  
RT: 6.06 min Scan# 1018  
Delta R.T. 0.01 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

Tgt Ion: 42 Resp: 10077  
Ion Ratio Lower Upper  
42 100  
72 0.0 27.6 41.4#  
71 41.2 27.0 40.4#

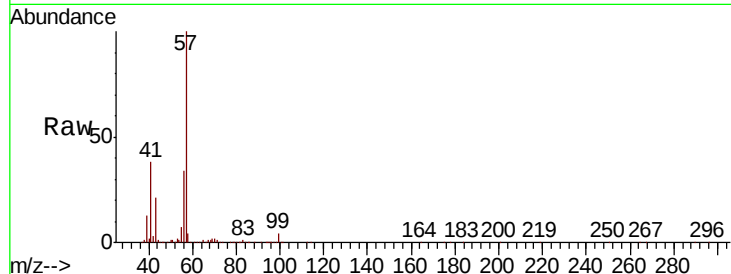




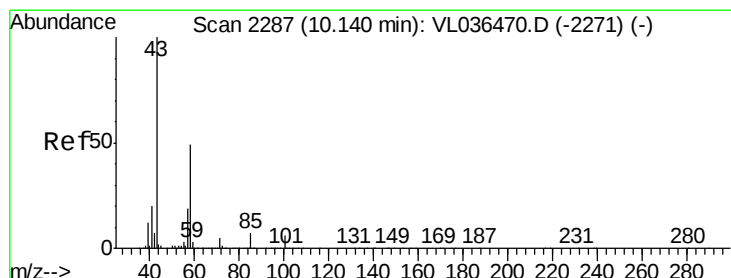
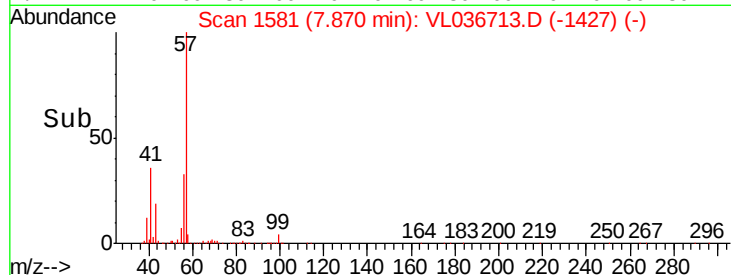
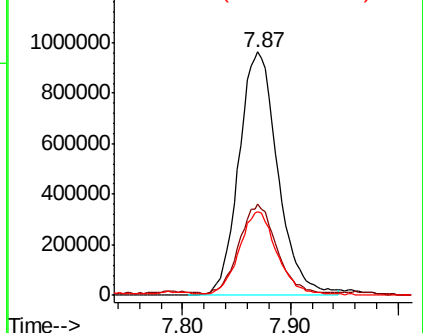
#44  
2,2,4-Trimethylpentane  
Concen: 4.694 ppbv  
RT: 7.87 min Scan# 1581  
Delta R.T. -0.00 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
UP-SG-7(2021)

Tot Ion: 57 Resp: 2408042  
Ion Ratio Lower Upper  
57 100  
41 36.5 28.8 43.2  
56 34.1 26.1 39.1

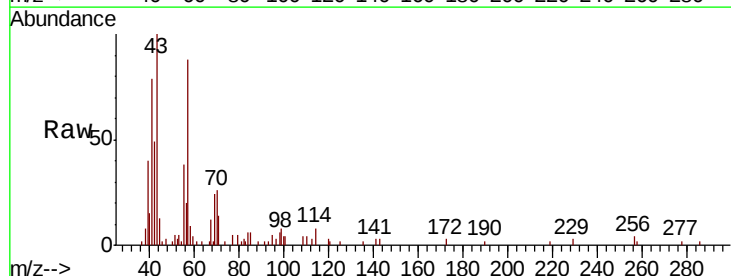


Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0

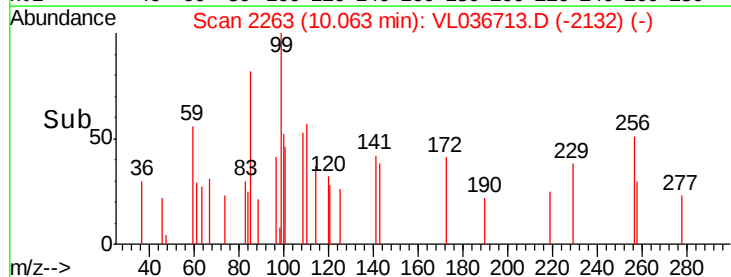
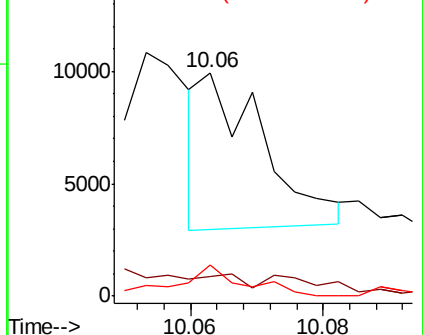


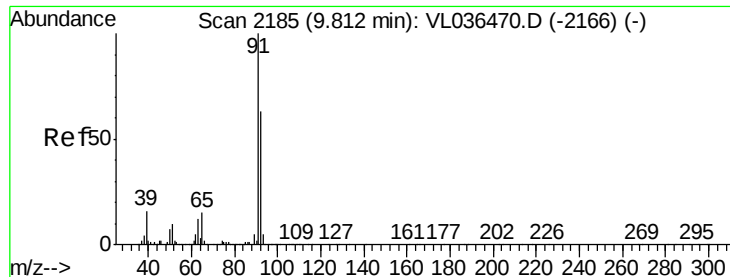
#51  
2-Hexanone  
Concen: 0.040 ppbv  
RT: 10.06 min Scan# 2263  
Delta R.T. -0.08 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

Tgt Ion: 43 Resp: 4479  
Ion Ratio Lower Upper  
43 100  
58 0.0 37.7 56.5#  
98 27.5 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 98.20 (97.90 to 98.90): VL0





#53

Toluene

Concen: 0.553 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

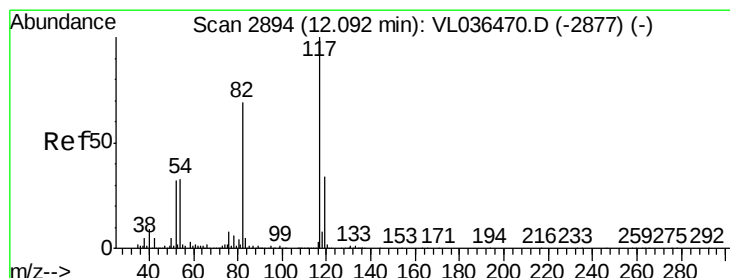
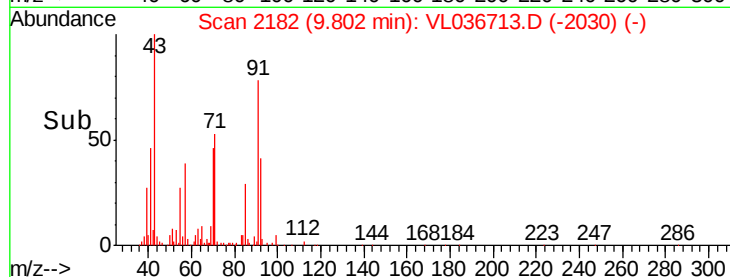
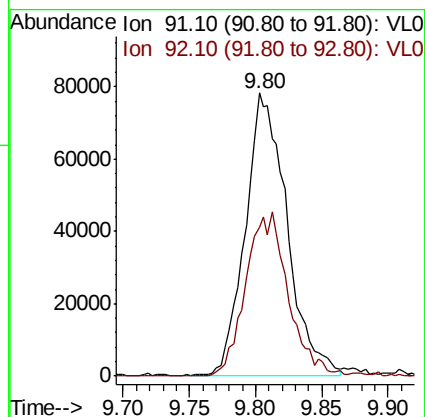
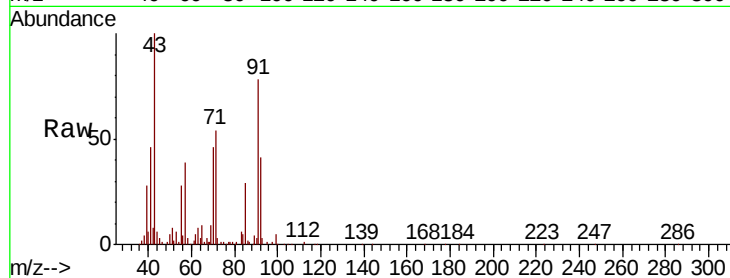
UP-SG-7(2021)

Tot Ion: 91 Resp: 171811

Ion Ratio Lower Upper

91 100

92 59.3 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

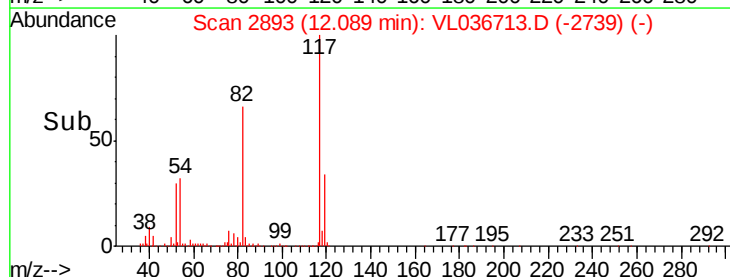
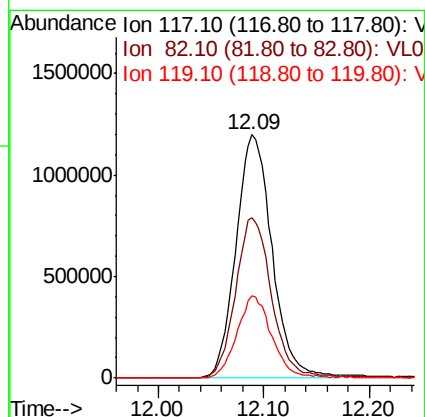
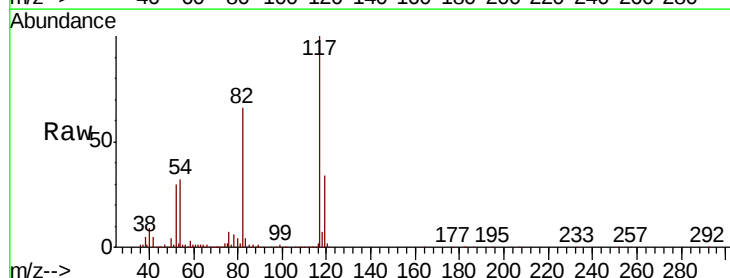
Tgt Ion: 117 Resp: 2852556

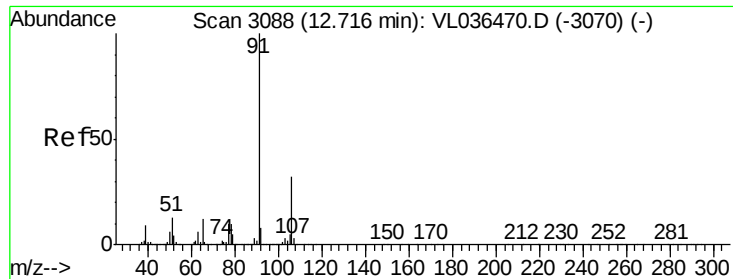
Ion Ratio Lower Upper

117 100

82 66.6 57.4 86.0

119 33.1 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.132 ppbv

RT: 12.72 min Scan# 3088

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

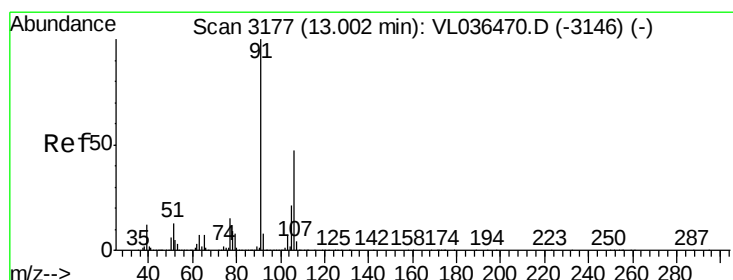
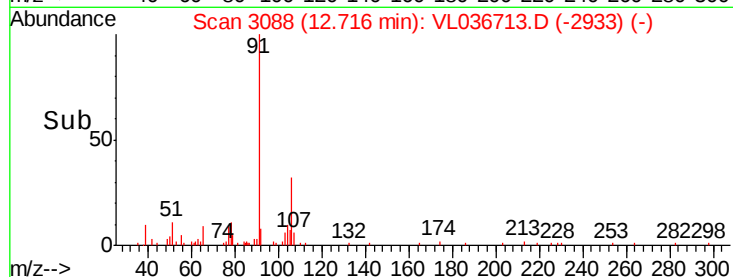
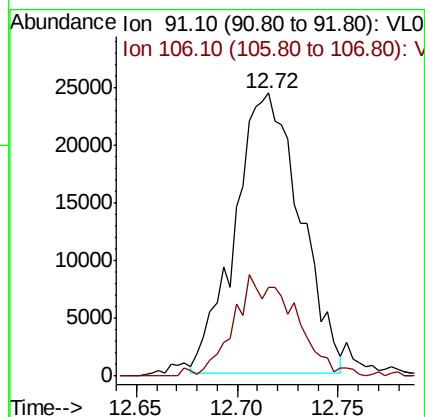
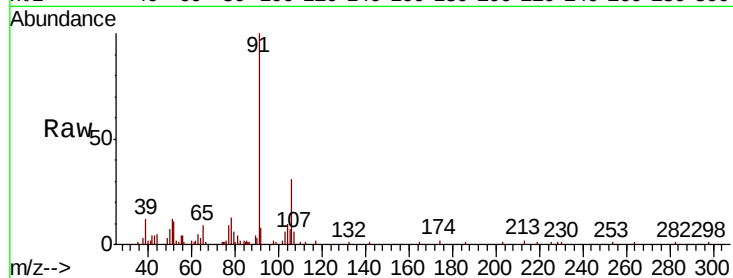
UP-SG-7(2021)

Tot Ion: 91 Resp: 54704

Ion Ratio Lower Upper

91 100

106 30.5 25.3 37.9



#59

m/p-Xylene

Concen: 0.042 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. -0.02 min

Lab File: VL036713.D

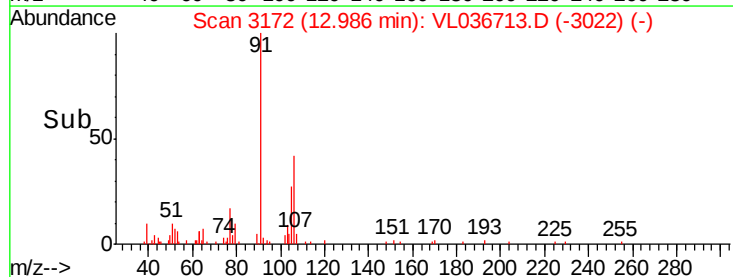
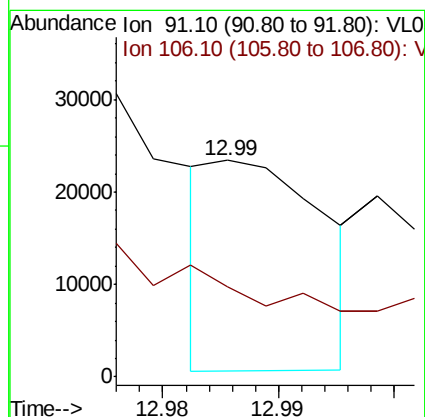
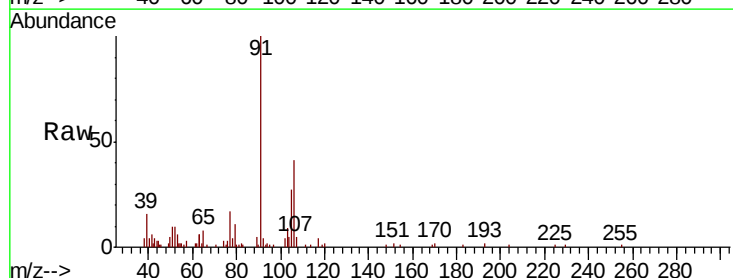
Acq: 7 Apr 2021 1:05

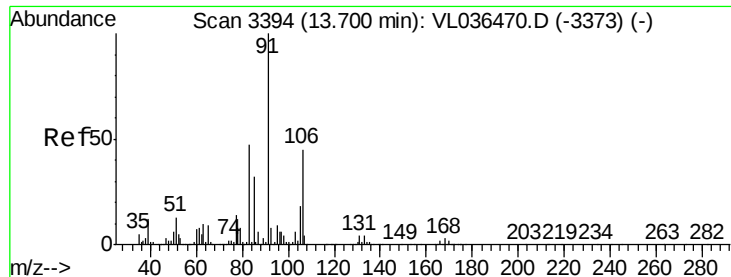
Tgt Ion: 91 Resp: 15262

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#

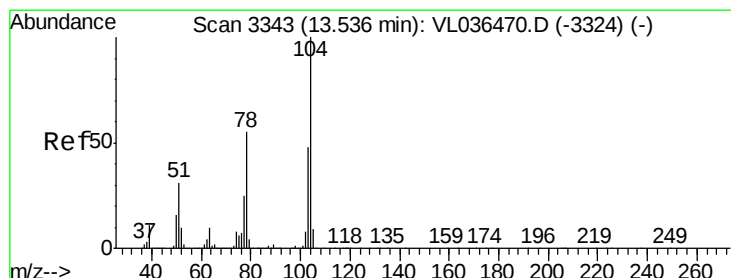
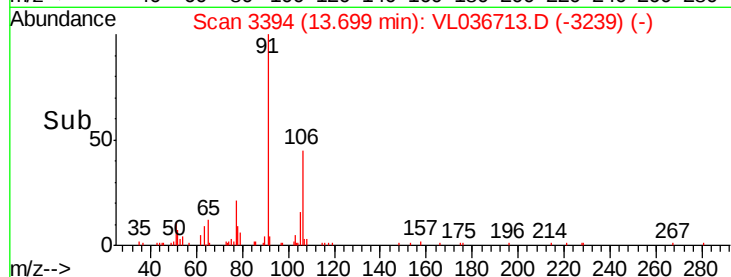
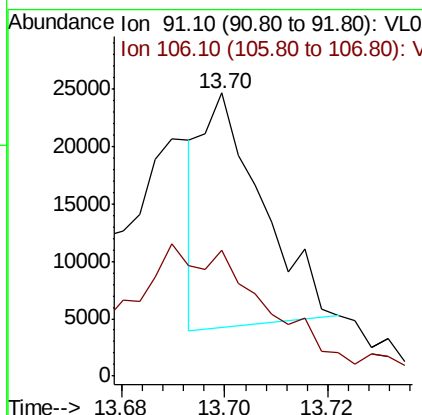
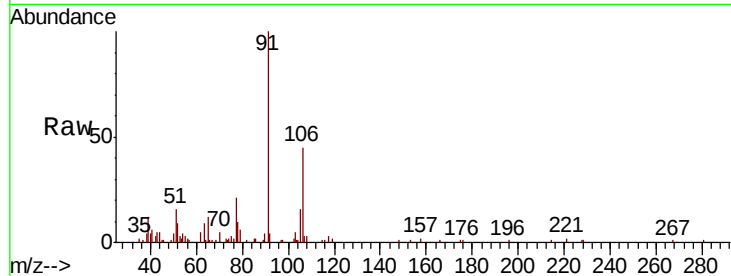




#60  
o-Xylene  
Concen: 0.047 ppbv  
RT: 13.70 min Scan# 3394  
Delta R.T. -0.00 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

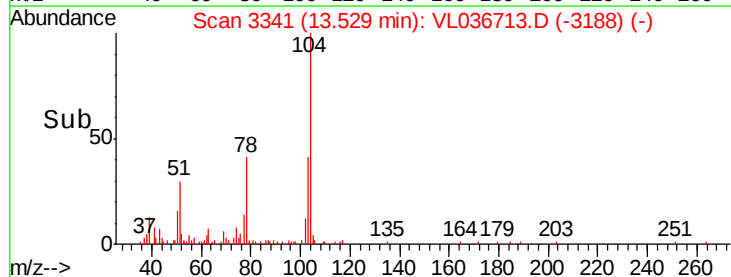
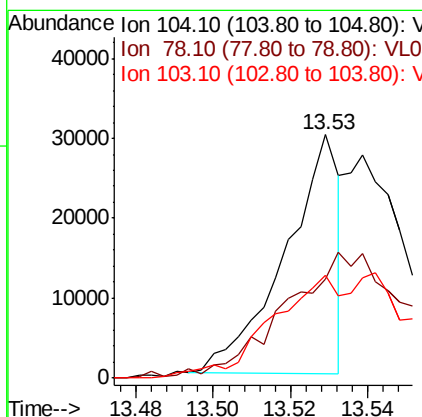
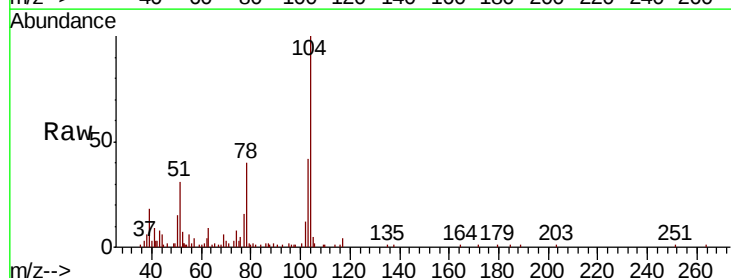
Instrument :  
MSVOA\_L  
ClientSampleId :  
UP-SG-7(2021)

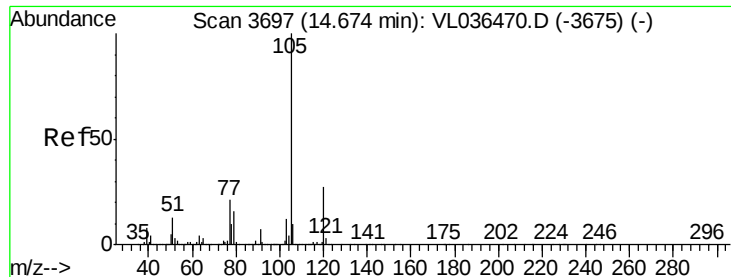
Tot Ion: 91 Resp: 16354  
Ion Ratio Lower Upper  
91 100  
106 0.0 22.3 66.9#



#61  
Styrene  
Concen: 0.166 ppbv  
RT: 13.53 min Scan# 3341  
Delta R.T. -0.01 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

Tgt Ion:104 Resp: 29172  
Ion Ratio Lower Upper  
104 100  
78 125.4 43.8 65.8#  
103 0.0 38.3 57.5#





#62

Isopropylbenzene

Concen: 0.031 ppbv

RT: 14.67 min Scan# 3695

Delta R.T. -0.01 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

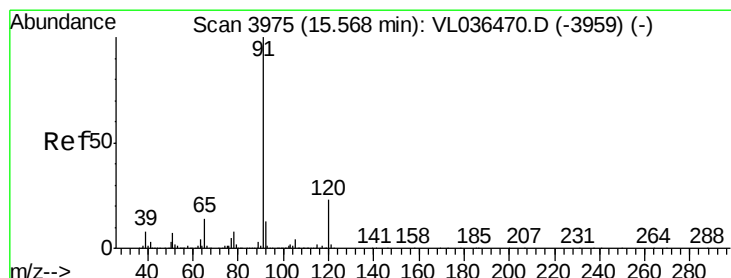
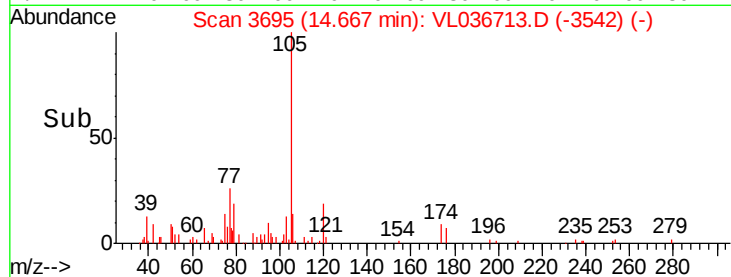
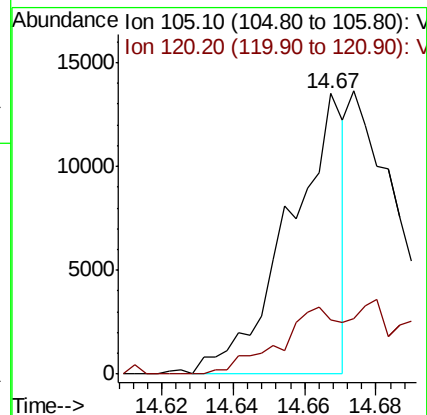
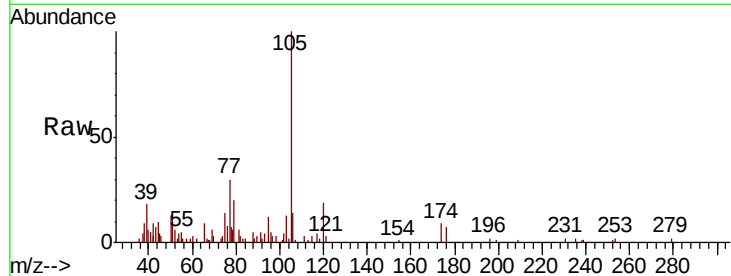
UP-SG-7(2021)

Tot Ion:105 Resp: 14445

Ion Ratio Lower Upper

105 100

120 0.0 20.6 31.0#



#64

n-propylbenzene

Concen: 0.122 ppbv

RT: 15.56 min Scan# 3974

Delta R.T. -0.00 min

Lab File: VL036713.D

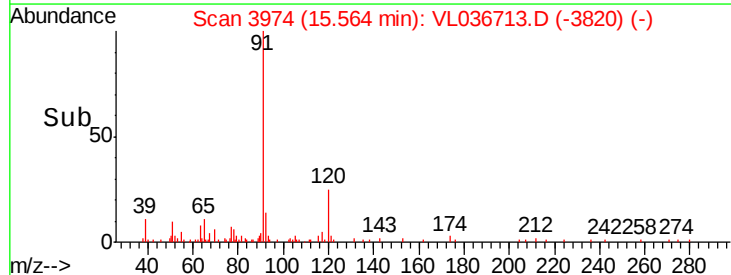
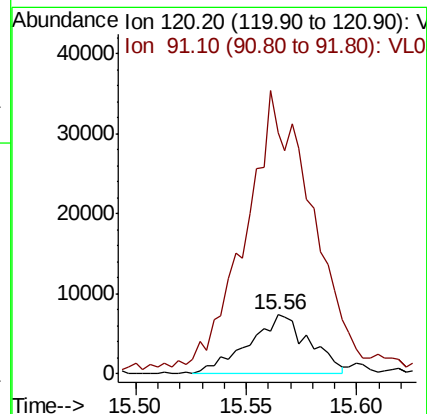
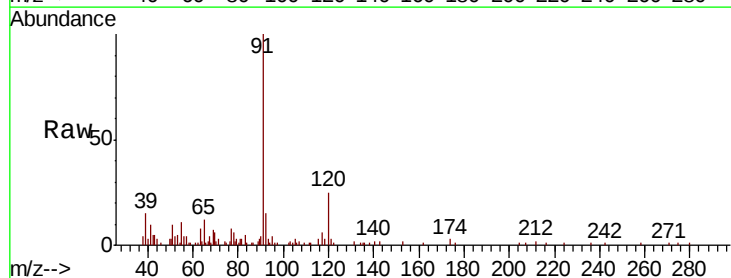
Acq: 7 Apr 2021 1:05

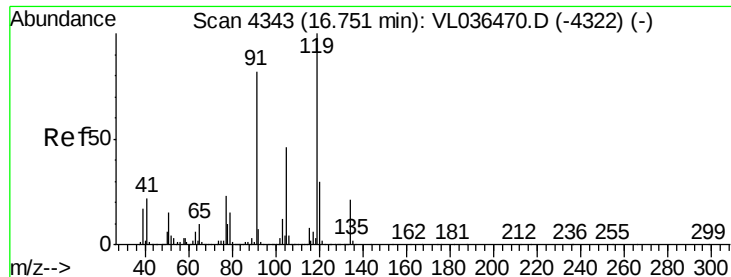
Tgt Ion:120 Resp: 14115

Ion Ratio Lower Upper

120 100

91 526.6 377.4 566.2

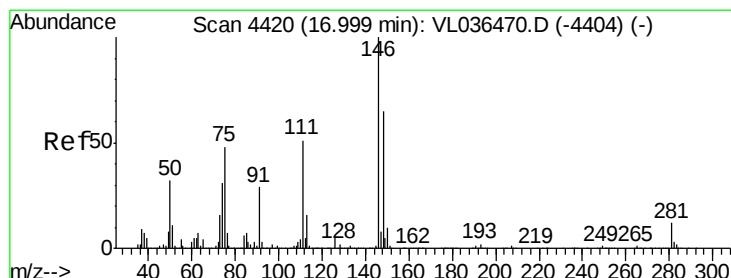
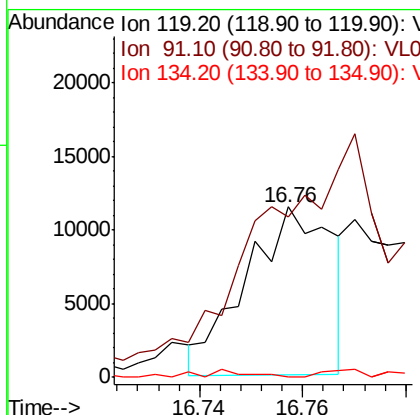
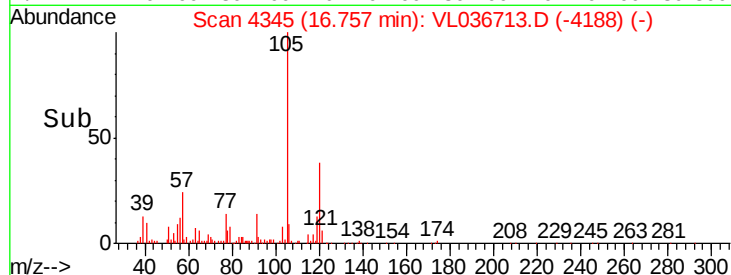
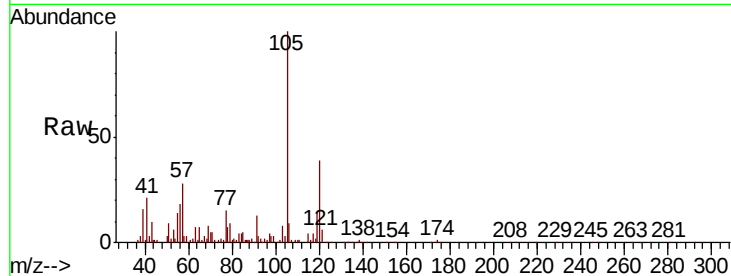




#65  
tert-Butylbenzene  
Concen: 0.032 ppbv  
RT: 16.76 min Scan# 4345  
Delta R.T. 0.01 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

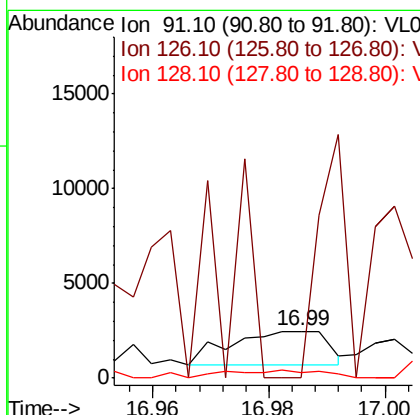
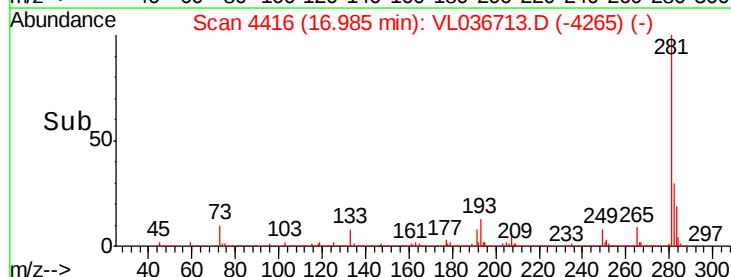
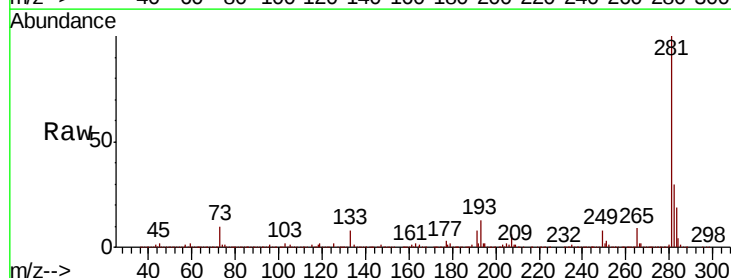
Instrument :  
MSVOA\_L  
ClientSampleId :  
UP-SG-7(2021)

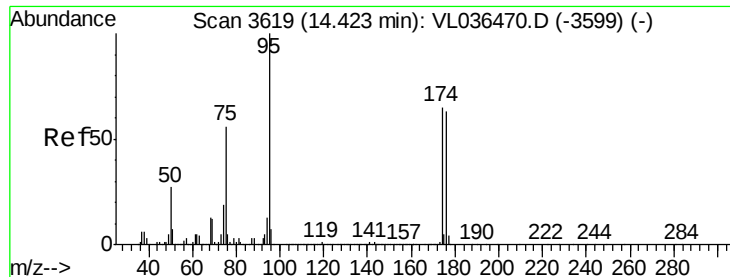
Tot Ion:119 Resp: 13166  
Ion Ratio Lower Upper  
119 100  
91 0.0 67.5 101.3#  
134 0.0 15.8 23.8#



#66  
Benzyl Chloride  
Concen: 0.046 ppbv  
RT: 16.99 min Scan# 4416  
Delta R.T. -0.01 min  
Lab File: VL036713.D  
Acq: 7 Apr 2021 1:05

Tgt Ion: 91 Resp: 2059  
Ion Ratio Lower Upper  
91 100  
126 723.2 13.5 20.3#  
128 0.0 4.2 6.4#

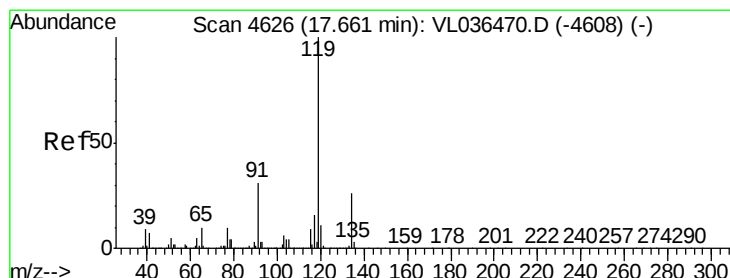
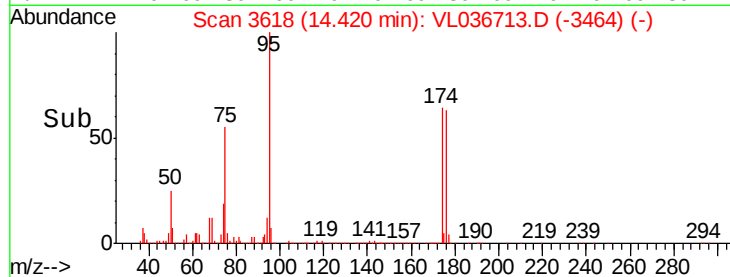
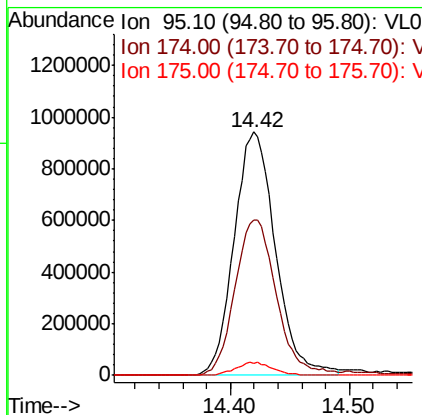
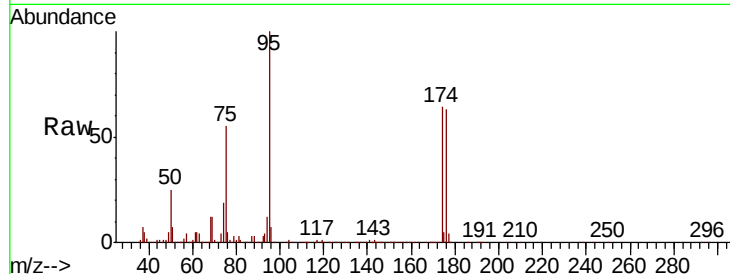




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.955 ppbv  
 RT: 14.42 min Scan# 3618  
 Delta R.T. -0.00 min  
 Lab File: VL036713.D  
 Acq: 7 Apr 2021 1:05

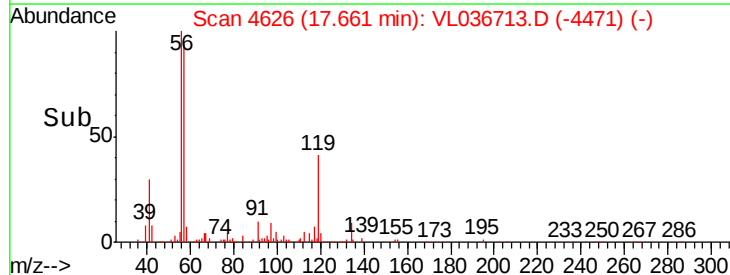
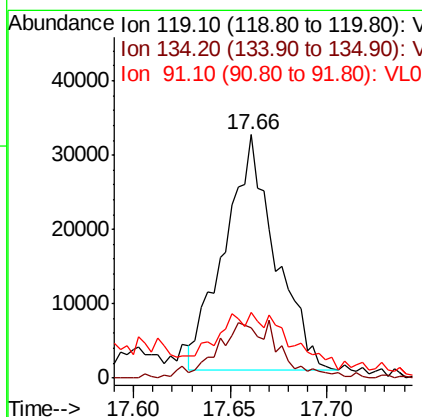
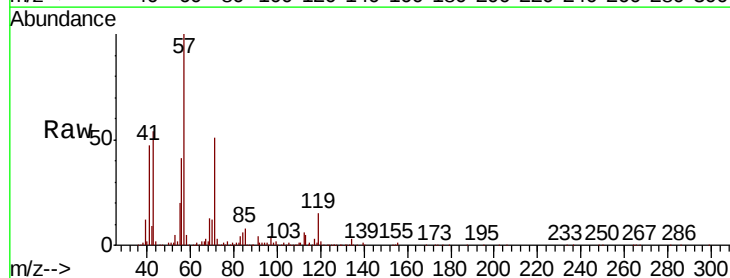
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 UP-SG-7(2021)

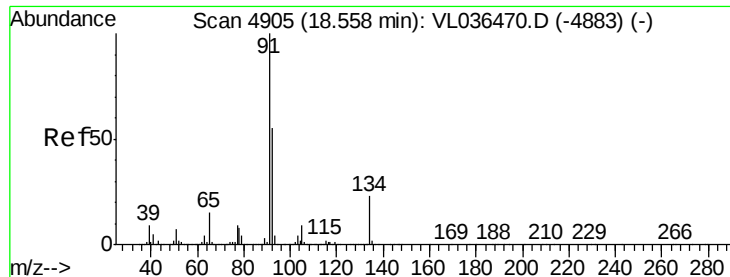
Tot Ion: 95 Resp: 2263335  
 Ion Ratio Lower Upper  
 95 100  
 174 66.5 51.0 76.6  
 175 4.8 3.9 5.9



#69  
 p-Isopropyltoluene  
 Concen: 0.128 ppbv  
 RT: 17.66 min Scan# 4626  
 Delta R.T. -0.00 min  
 Lab File: VL036713.D  
 Acq: 7 Apr 2021 1:05

Tgt Ion: 119 Resp: 57757  
 Ion Ratio Lower Upper  
 119 100  
 134 29.9 20.6 30.8  
 91 46.6 25.0 37.6#





#70

n-Butylbenzene

Concen: 0.034 ppbv

RT: 18.55 min Scan# 4903

Delta R.T. -0.01 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

UP-SG-7(2021)

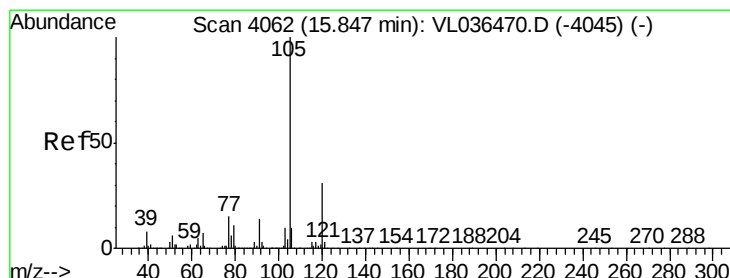
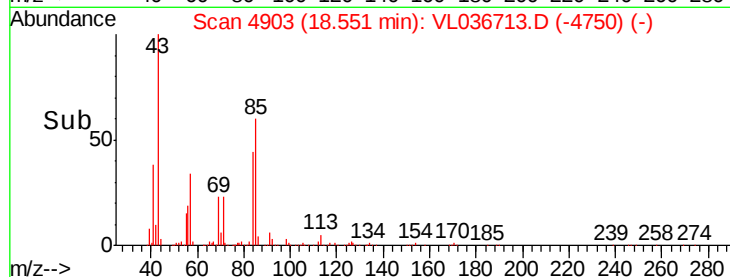
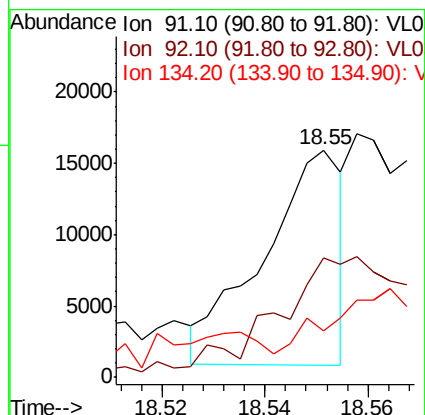
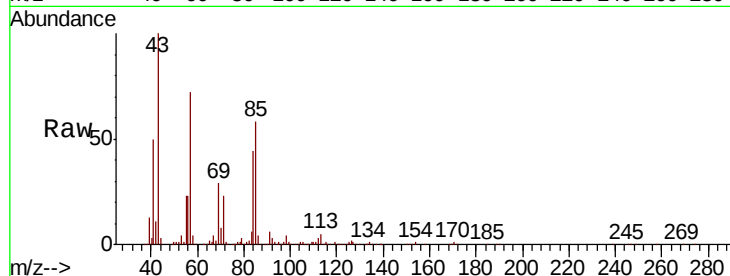
Tot Ion: 91 Resp: 15986

Ion Ratio Lower Upper

91 100

92 0.0 43.8 65.8#

134 0.0 18.0 27.0#



#72

4-Ethyltoluene

Concen: 0.095 ppbv

RT: 15.84 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Tgt Ion: 105 Resp: 36470

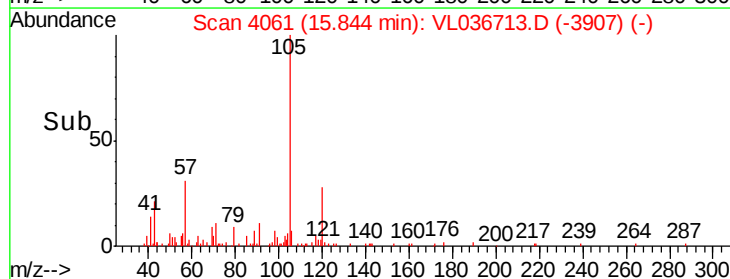
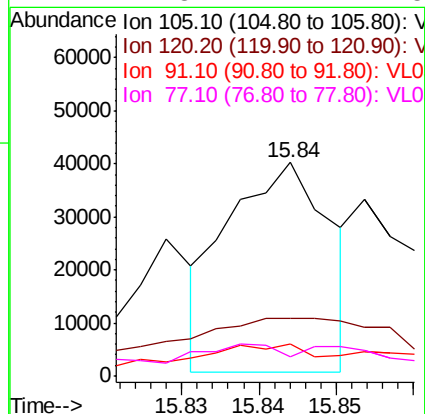
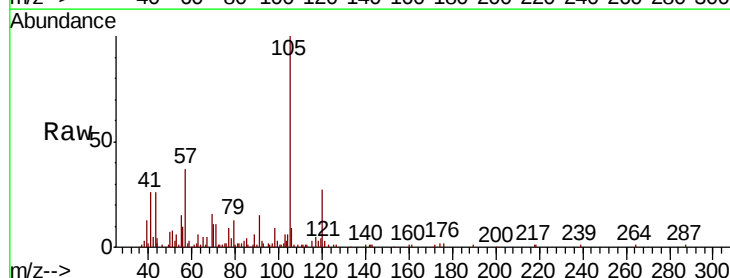
Ion Ratio Lower Upper

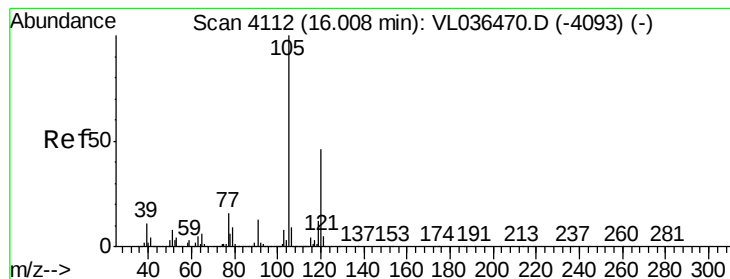
105 100

120 72.1 24.0 36.0#

91 29.9 11.0 16.4#

77 44.8 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.135 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA\_L

ClientSampleId :

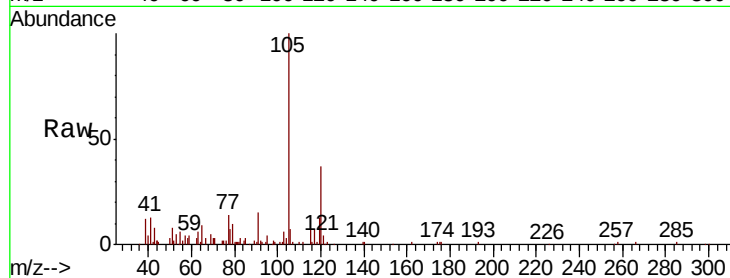
UP-SG-7(2021)

Tot Ion:105 Resp: 48321

Ion Ratio Lower Upper

105 100

120 37.4 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.00

40000

30000

20000

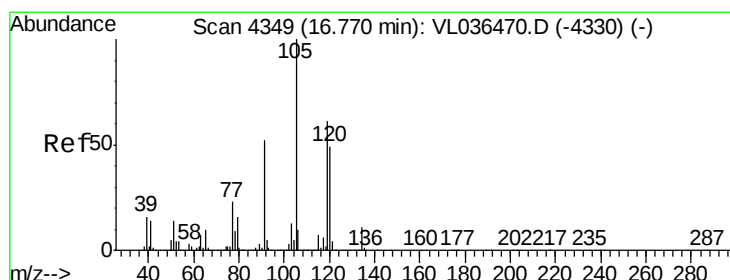
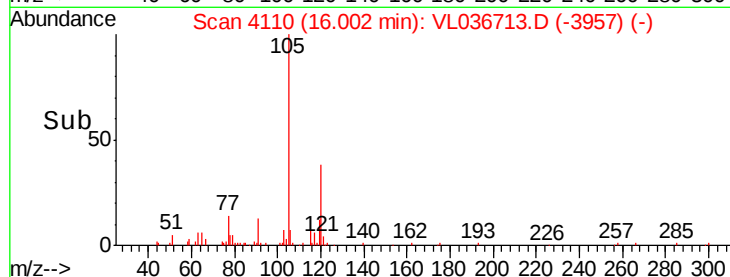
10000

0

Time-->

15.95

16.00



#74

1,2,4-Trimethylbenzene

Concen: 0.607 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Tgt Ion:105 Resp: 232667

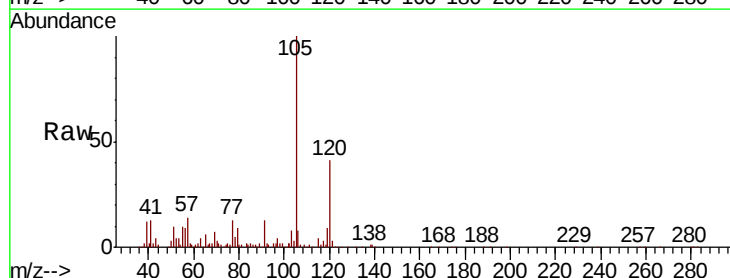
Ion Ratio Lower Upper

105 100

120 41.1 39.2 58.8

91 12.3 42.6 64.0#

77 12.3 18.6 28.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

150000

100000

50000

0

Time-->

16.70

16.75

16.80

16.85

