

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\  
 Data File : VL036605.D  
 Acq On : 31 Mar 2021 17:10  
 Operator : SY/AP  
 Sample : M1840-05  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Apr 01 04:27:59 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   | 1517406  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3643314  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 3294075  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2785274  | 10.61    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.10% |

| Target Compounds               |       |     |         |         | Ovalue    |
|--------------------------------|-------|-----|---------|---------|-----------|
| 2) Dichlorodifluoromethane     | 3.05  | 85  | 38015   | 0.154   | ppbv # 80 |
| 3) Chlorodifluoromethane       | 2.97  | 51  | 271644  | 0.958   | ppbv # 66 |
| 4) Chloromethane               | 3.14  | 50  | 51712   | 0.516   | ppbv # 85 |
| 9) Propene                     | 3.02  | 41  | 79836   | 0.883   | ppbv # 96 |
| 10) Heptane                    | 8.13  | 43  | 41555   | 0.180   | ppbv # 84 |
| 11) Trichlorofluoromethane     | 3.95  | 101 | 48042   | 0.190   | ppbv # 91 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49  | 101 | 5159    | 0.032   | ppbv # 11 |
| 13) Ethanol                    | 3.61  | 45  | 1226257 | 113.934 | ppbv # 92 |
| 15) Acetone                    | 3.85  | 43  | 7061327 | 47.281  | ppbv # 90 |
| 16) 1,3-Butadiene              | 3.31  | 39  | 212565  | 2.044   | ppbv # 21 |
| 17) tert-Butyl alcohol         | 4.30  | 59  | 340274  | 2.617   | ppbv # 99 |
| 19) Isopropyl Alcohol          | 3.98  | 45  | 2566101 | 31.235  | ppbv # 1  |
| 20) Methylene Chloride         | 4.35  | 84  | 2214089 | 31.664  | ppbv # 91 |
| 21) Allyl Chloride             | 4.35  | 41  | 47128   | 0.396   | ppbv # 26 |
| 23) Vinyl Acetate              | 5.07  | 43  | 1424812 | 5.577   | ppbv # 93 |
| 25) Ethyl Acetate              | 5.69  | 43  | 1974192 | 5.560   | ppbv # 78 |
| 26) Hexane                     | 5.69  | 57  | 2674476 | 16.231  | ppbv # 47 |
| 27) Carbon Disulfide           | 4.55  | 76  | 10179   | 0.063   | ppbv # 1  |
| 30) Cyclohexane                | 7.13  | 84  | 8662    | 0.065   | ppbv # 1  |
| 32) 1,1,1-Trichloroethane      | 6.51  | 97  | 83219   | 0.313   | ppbv # 95 |
| 34) 2-Butanone                 | 5.25  | 43  | 1311373 | 7.374   | ppbv # 97 |
| 35) Carbon Tetrachloride       | 7.03  | 117 | 6255    | 0.022   | ppbv # 67 |
| 36) Benzene                    | 6.90  | 78  | 994040  | 2.958   | ppbv # 95 |
| 37) 1,2-Dichloroethane         | 6.31  | 62  | 8142    | 0.041   | ppbv # 82 |
| 39) 1,2-Dichloropropane        | 7.18  | 63  | 1002112 | 7.352   | ppbv # 23 |
| 40) 1,4-Dioxane                | 7.85  | 88  | 1554    | 0.049   | ppbv # 1  |
| 41) Tetrahydrofuran            | 5.69  | 42  | 1091522 | 13.311  | ppbv # 54 |
| 44) 2,2,4-Trimethylpentane     | 7.88  | 57  | 24332   | 0.041   | ppbv # 1  |
| 50) 4-Methyl-2-Pentanone       | 8.75  | 43  | 11779   | 0.046   | ppbv # 1  |
| 51) 2-Hexanone                 | 10.14 | 43  | 95380   | 0.734   | ppbv # 58 |
| 52) Tetrachloroethene          | 11.23 | 164 | 144661  | 1.169   | ppbv # 96 |
| 53) Toluene                    | 9.81  | 91  | 893544  | 2.497   | ppbv # 98 |
| 58) Ethyl Benzene              | 12.72 | 91  | 188658  | 0.394   | ppbv # 90 |
| 59) m/p-Xylene                 | 12.97 | 91  | 711039  | 1.701   | ppbv # 96 |
| 60) o-Xylene                   | 13.70 | 91  | 266226  | 0.659   | ppbv # 99 |
| 61) Styrene                    | 13.54 | 104 | 5247    | 0.026   | ppbv # 1  |
| 66) Benzyl Chloride            | 17.00 | 91  | 2358    | 0.045   | ppbv # 54 |
| 70) n-Butylbenzene             | 18.56 | 91  | 12522   | 0.023   | ppbv # 25 |
| 72) 4-Ethyltoluene             | 15.85 | 105 | 59351   | 0.134   | ppbv # 53 |
| 73) 1,3,5-Trimethylbenzene     | 16.00 | 105 | 110671  | 0.268   | ppbv # 98 |
| 74) 1,2,4-Trimethylbenzene     | 16.77 | 105 | 339053  | 0.766   | ppbv # 67 |

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Quant Time: Apr 01 04:27:59 2021  
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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) |
|--------------------|-------|------|----------|-------|-------|----------|
| 79) Naphthalene    | 22.20 | 128  | 5257     | 0.020 | ppbv  | # 29     |

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

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Instrument :  
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ClientSampleId :

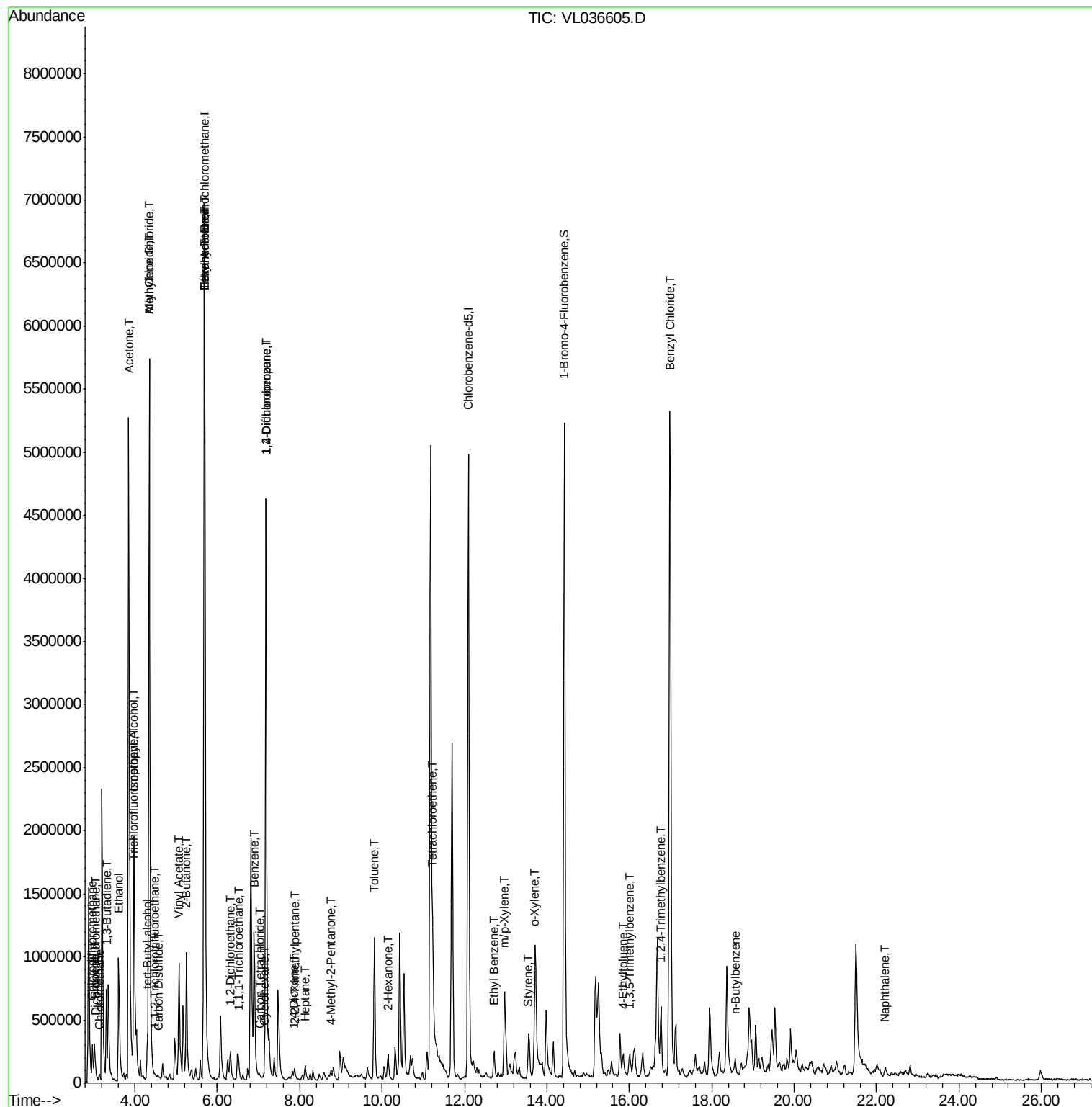
Quant Time: Apr 01 04:27:59 2021

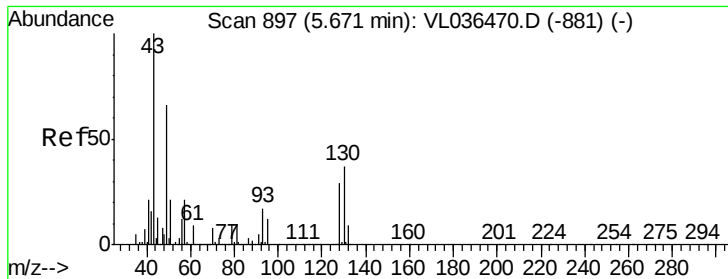
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :  
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ClientSampleId :

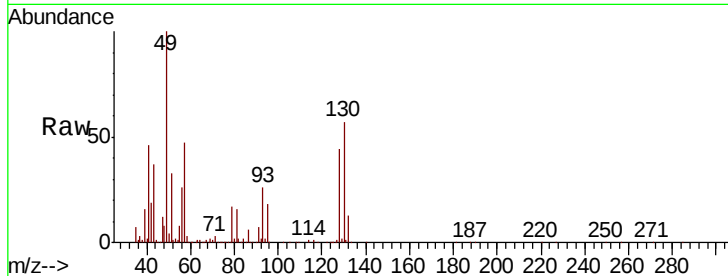
Tot Ion: 49 Resp: 1517406

Ion Ratio Lower Upper

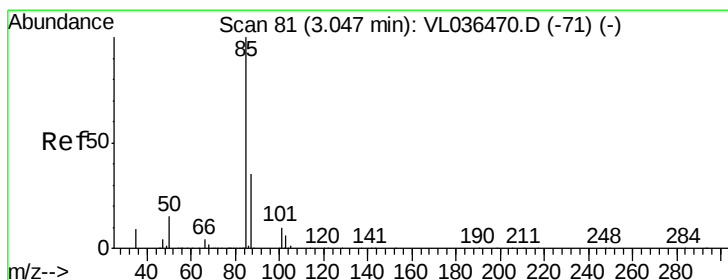
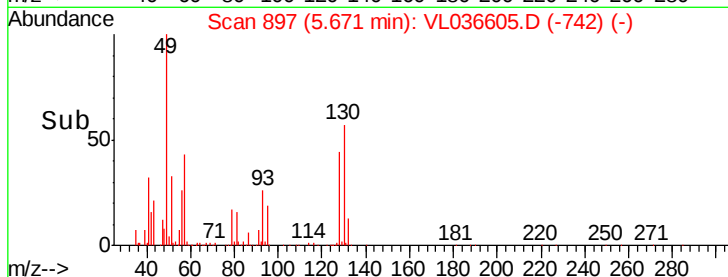
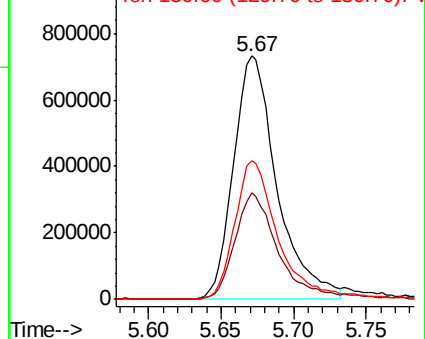
49 100

128 44.6 23.5 70.6

130 58.5 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: 0.154 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036605.D

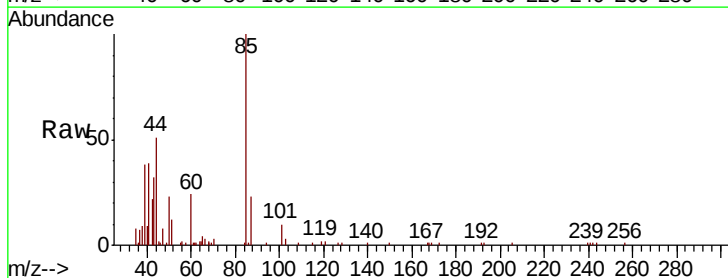
Acq: 31 Mar 2021 17:10

Tgt Ion: 85 Resp: 38015

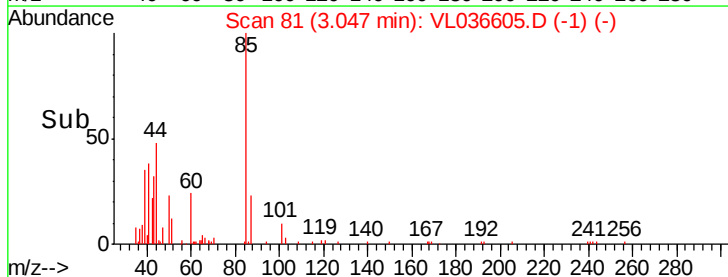
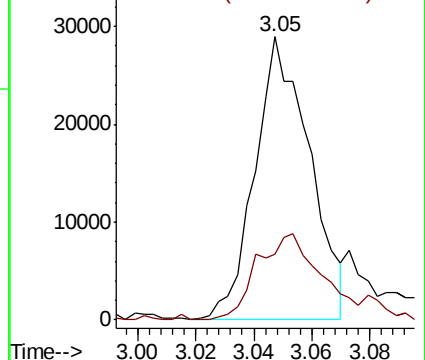
Ion Ratio Lower Upper

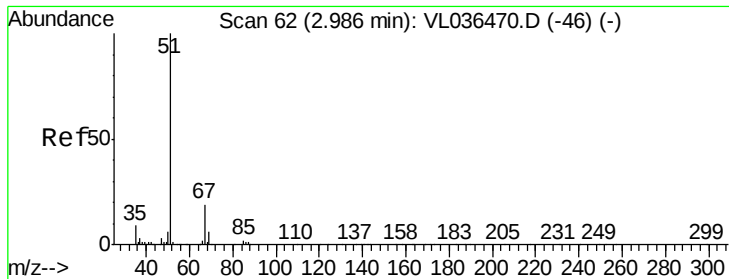
85 100

87 23.3 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0  
Ion 87.00 (86.70 to 87.70): VL0

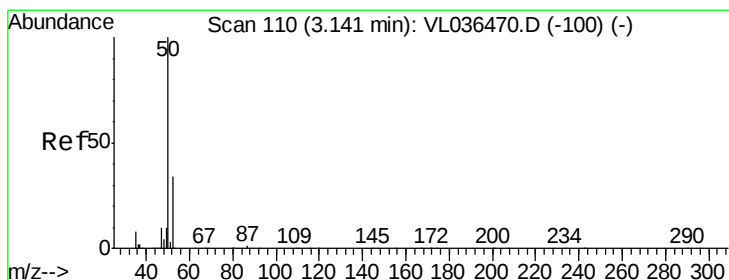
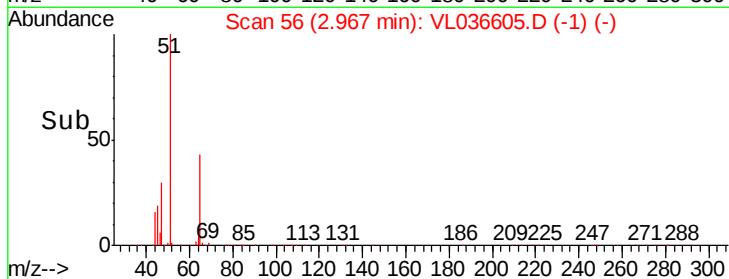
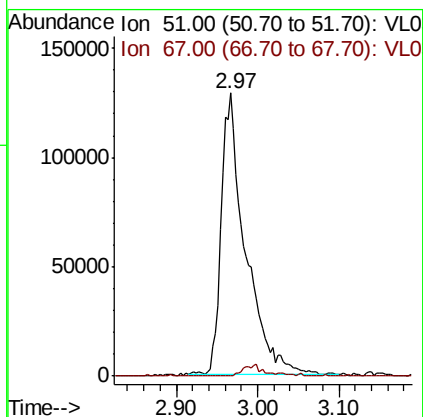
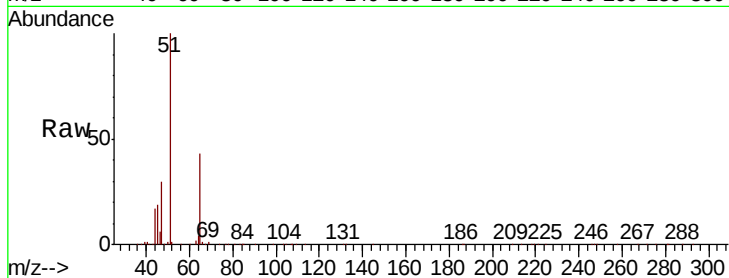




#3  
 Chlorodifluoromethane  
 Concen: 0.958 ppbv  
 RT: 2.97 min Scan# 56  
 Delta R.T. -0.02 min  
 Lab File: VL036605.D  
 Acq: 31 Mar 2021 17:10

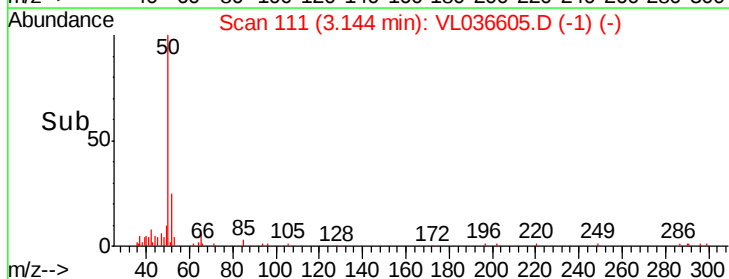
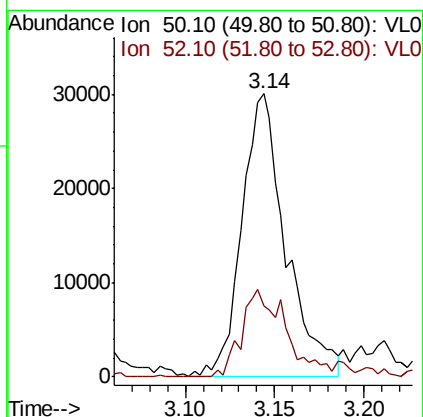
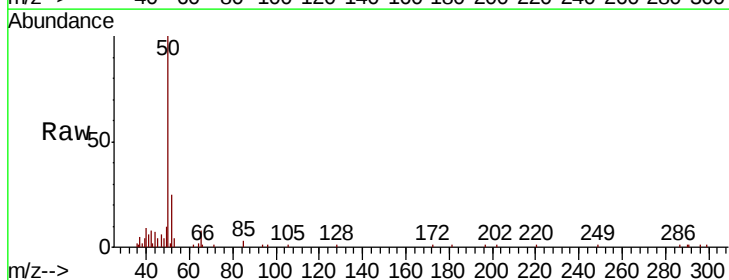
Instrument :  
 MSVOA\_L  
 ClientSampleId :

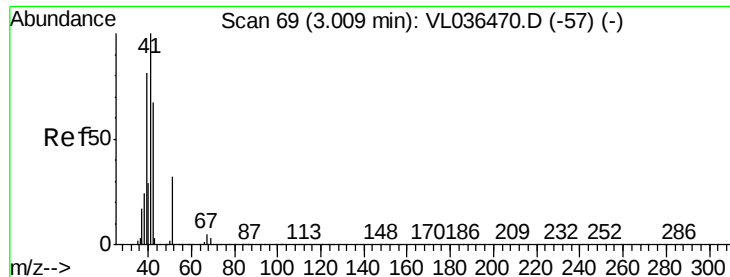
Tot Ion: 51 Resp: 271644  
 Ion Ratio Lower Upper  
 51 100  
 67 3.2 14.7 22.1#



#4  
 Chloromethane  
 Concen: 0.516 ppbv  
 RT: 3.14 min Scan# 111  
 Delta R.T. 0.00 min  
 Lab File: VL036605.D  
 Acq: 31 Mar 2021 17:10

Tgt Ion: 50 Resp: 51712  
 Ion Ratio Lower Upper  
 50 100  
 52 25.0 27.0 40.6#





#9

Propene

Concen: 0.883 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

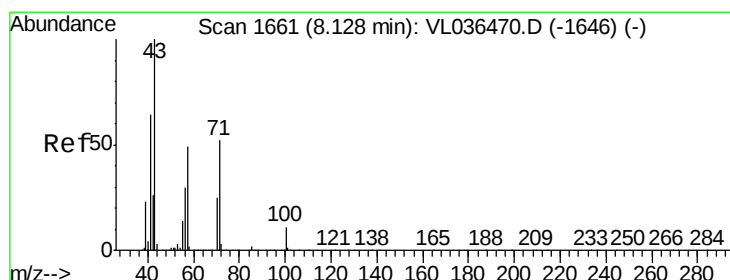
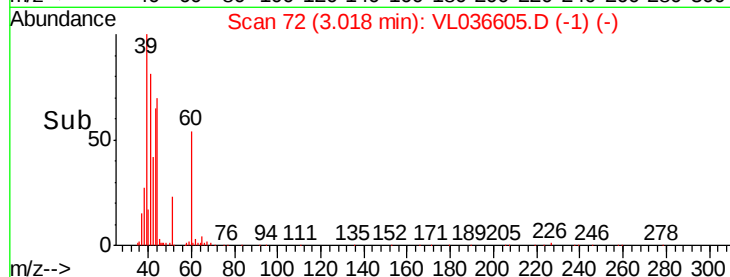
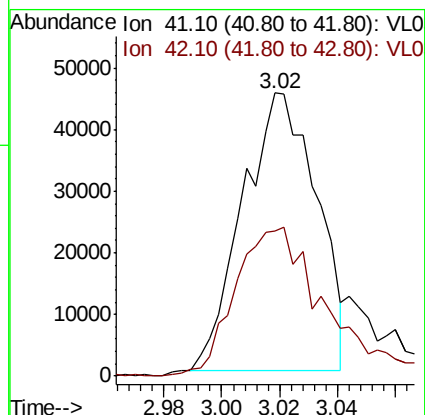
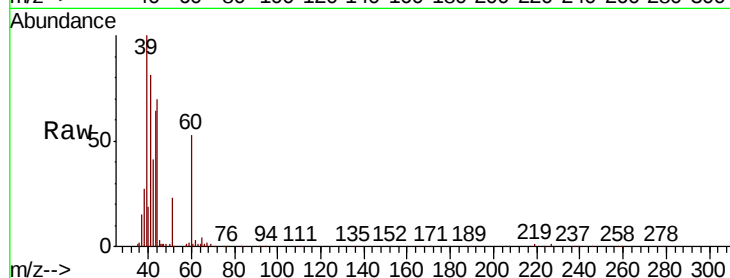
ClientSampleId :

Tot Ion: 41 Resp: 79836

Ion Ratio Lower Upper

41 100

42 68.0 57.0 85.4



#10

Heptane

Concen: 0.180 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL036605.D

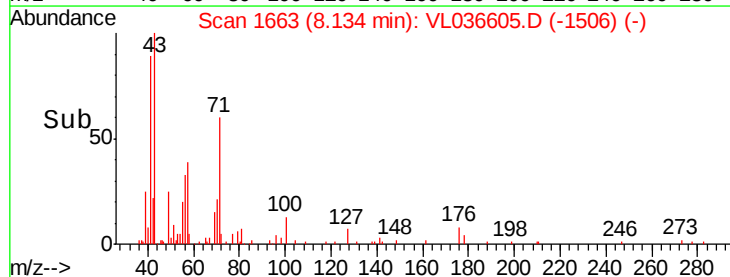
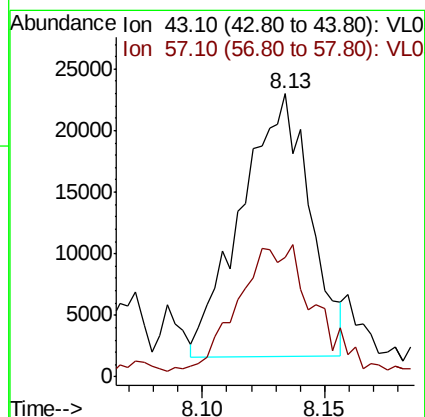
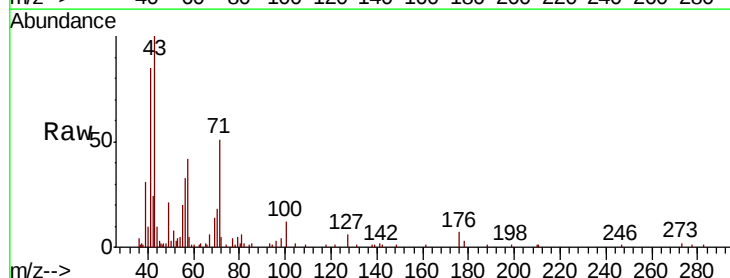
Acq: 31 Mar 2021 17:10

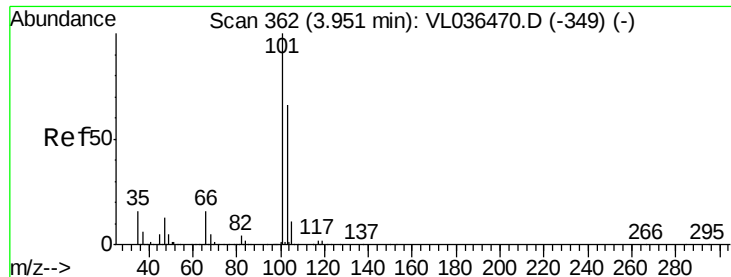
Tgt Ion: 43 Resp: 41555

Ion Ratio Lower Upper

43 100

57 59.8 39.0 58.6#





#11

Trichlorofluoromethane

Concen: 0.190 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

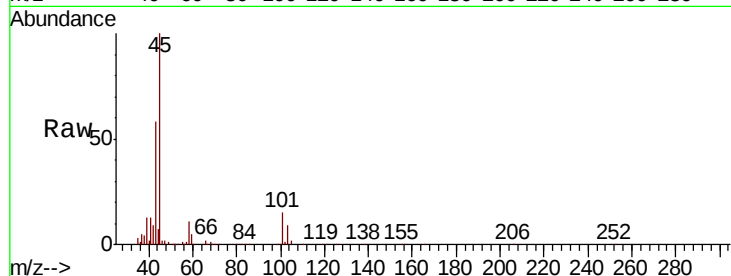
ClientSampleId :

Tot Ion:101 Resp: 48042

Ion Ratio Lower Upper

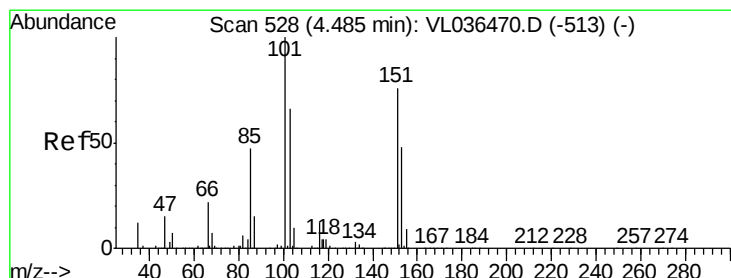
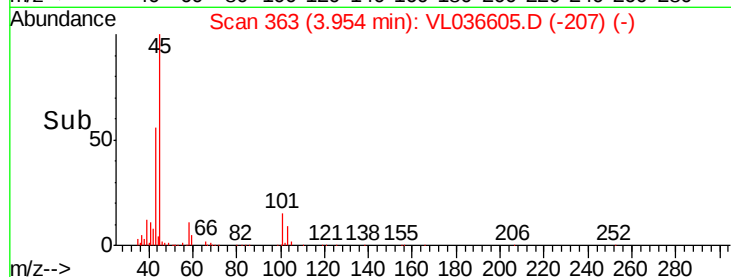
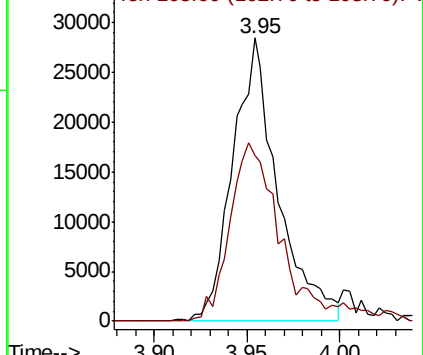
101 100

103 58.5 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.032 ppbv

RT: 4.49 min Scan# 529

Delta R.T. 0.00 min

Lab File: VL036605.D

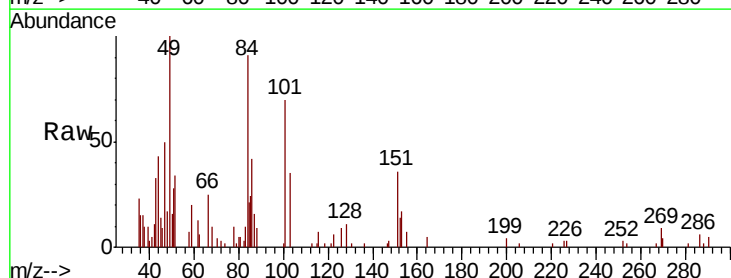
Acq: 31 Mar 2021 17:10

Tgt Ion:101 Resp: 5159

Ion Ratio Lower Upper

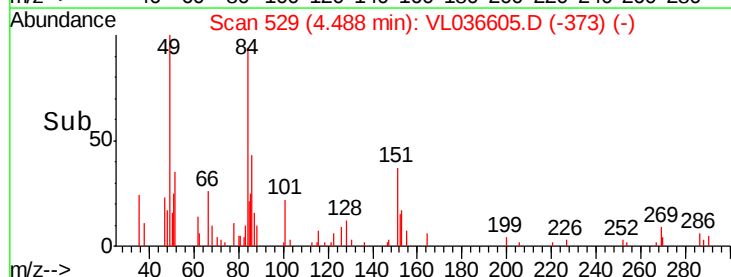
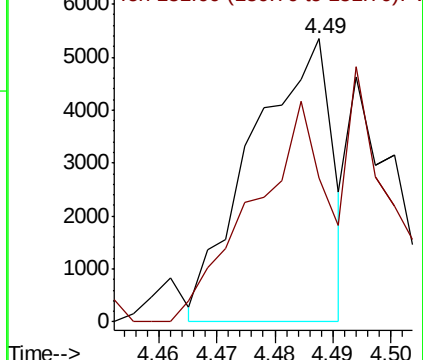
101 100

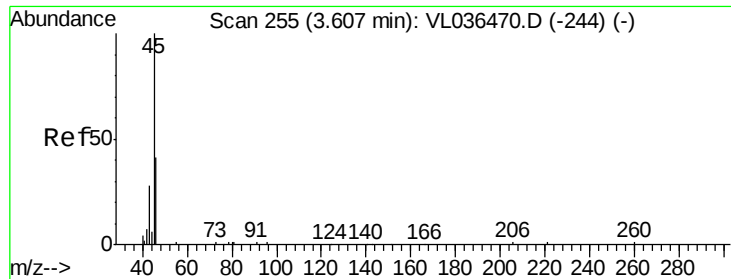
151 0.0 60.9 91.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

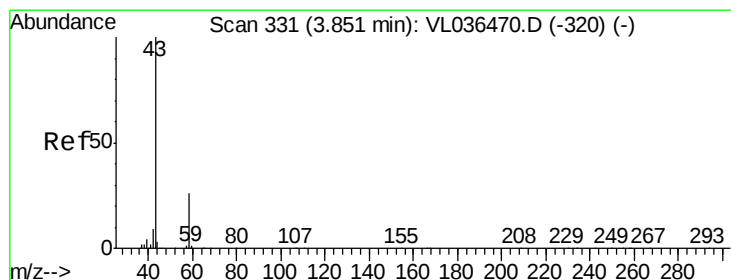
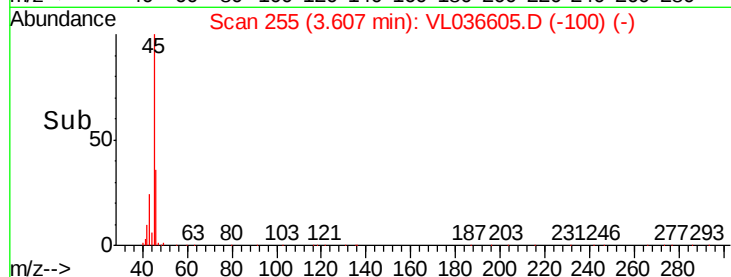
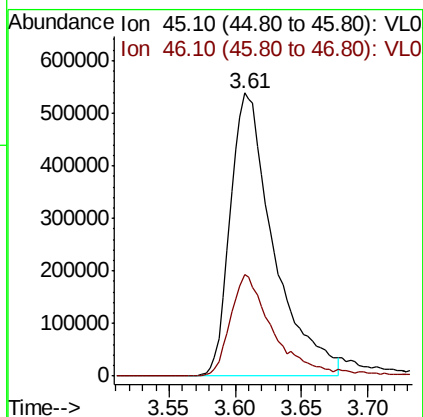
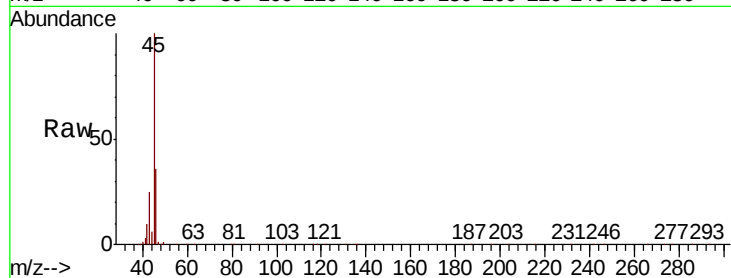




#13  
Ethanol  
Concen: 113.934 ppbv  
RT: 3.61 min Scan# 255  
Delta R.T. -0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

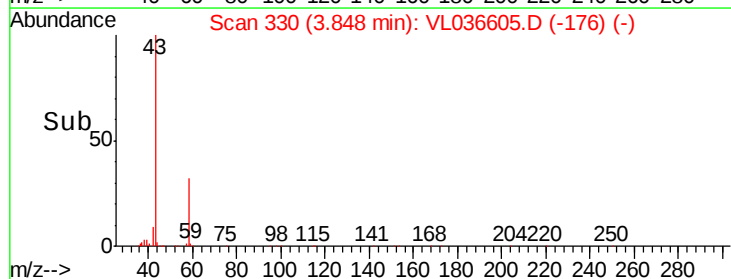
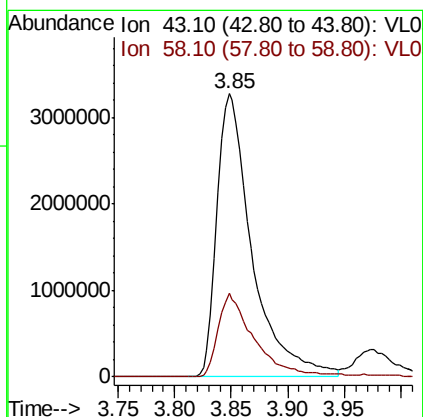
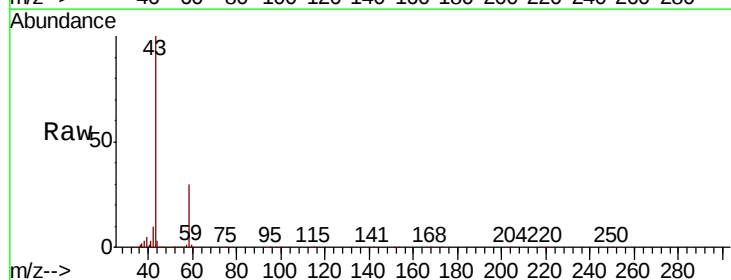
Instrument :  
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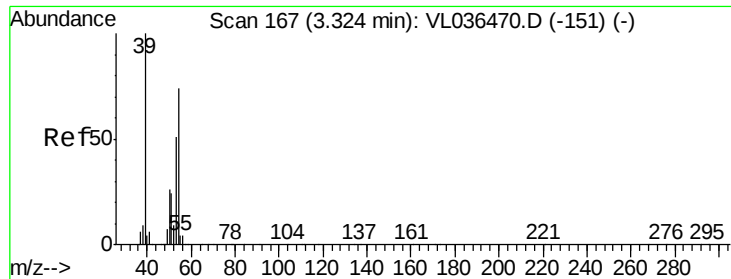
Tot Ion: 45 Resp: 1226257  
Ion Ratio Lower Upper  
45 100  
46 36.3 16.6 66.2



#15  
Acetone  
Concen: 47.281 ppbv  
RT: 3.85 min Scan# 330  
Delta R.T. -0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

Tgt Ion: 43 Resp: 7061327  
Ion Ratio Lower Upper  
43 100  
58 31.6 21.2 31.8

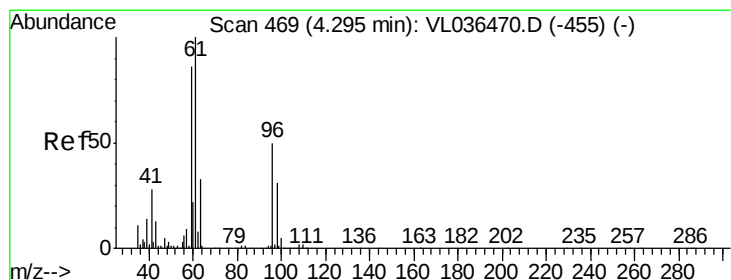
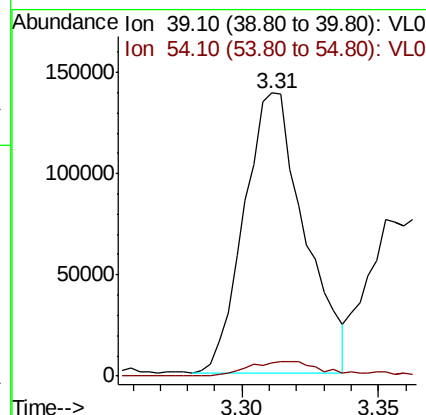
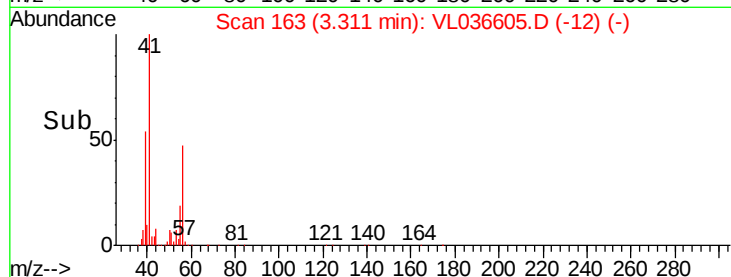
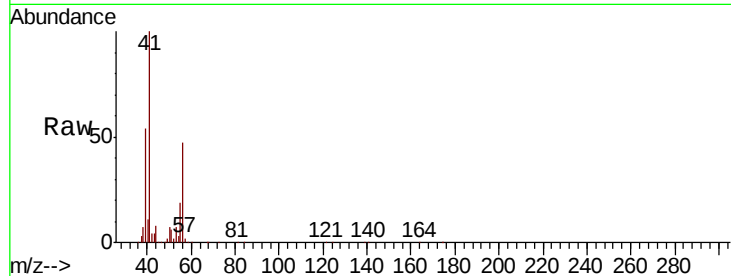




#16  
1,3-Butadiene  
Concen: 2.044 ppbv  
RT: 3.31 min Scan# 163  
Delta R.T. -0.01 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

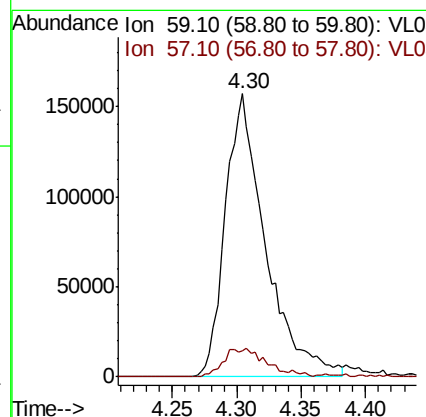
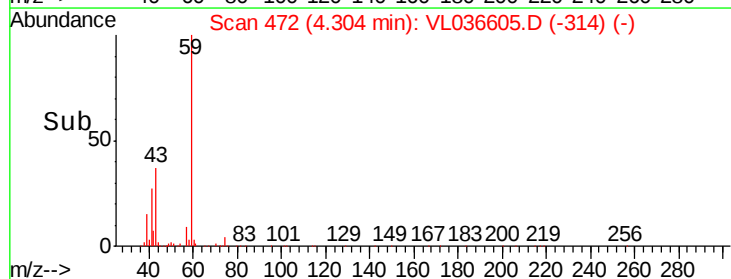
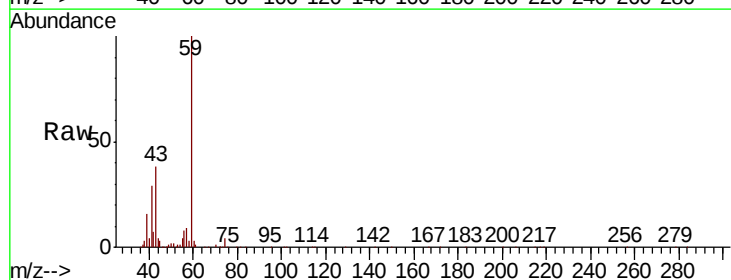
Instrument :  
MSVOA\_L  
ClientSampleId :

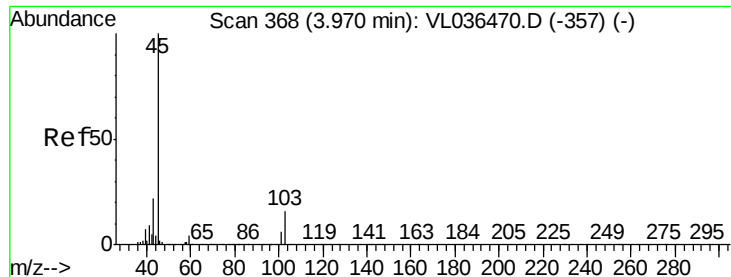
Tot Ion: 39 Resp: 212565  
Ion Ratio Lower Upper  
39 100  
54 7.0 58.8 88.2#



#17  
tert-Butyl alcohol  
Concen: 2.617 ppbv  
RT: 4.30 min Scan# 472  
Delta R.T. 0.01 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

Tgt Ion: 59 Resp: 340274  
Ion Ratio Lower Upper  
59 100  
57 11.2 8.6 12.8





#19

Isopropyl Alcohol

Concen: 31.235 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

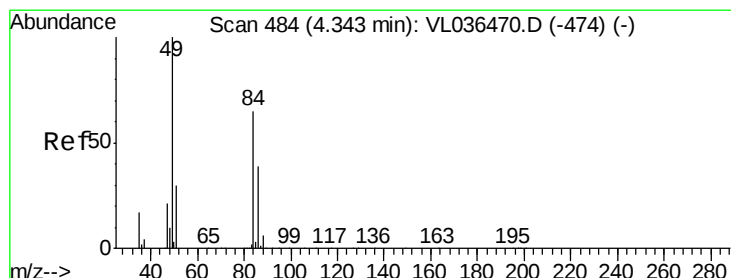
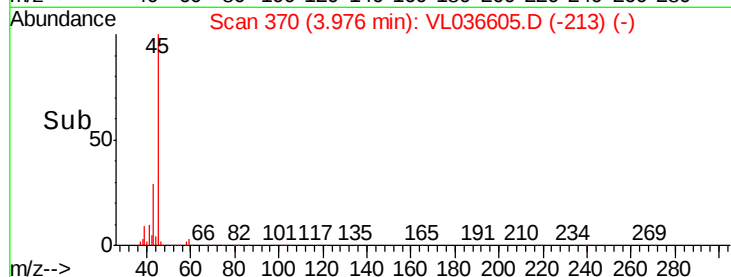
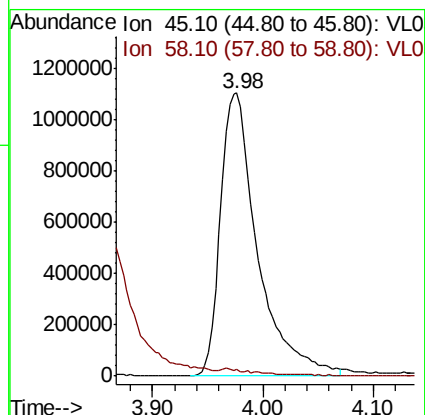
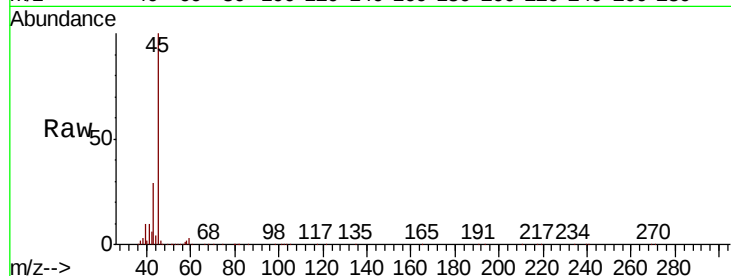
ClientSampleId :

Tot Ion: 45 Resp: 2566101

Ion Ratio Lower Upper

45 100

58 87.1 2.9 4.3#



#20

Methylene Chloride

Concen: 31.664 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Tgt Ion: 84 Resp: 2214089

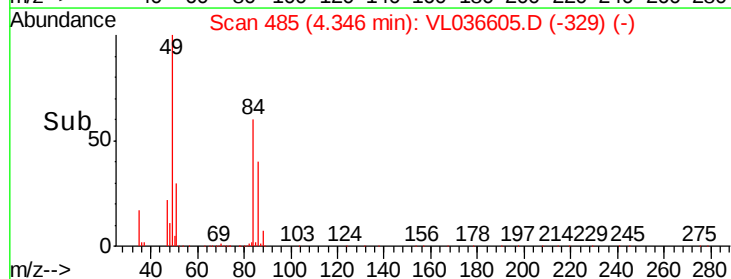
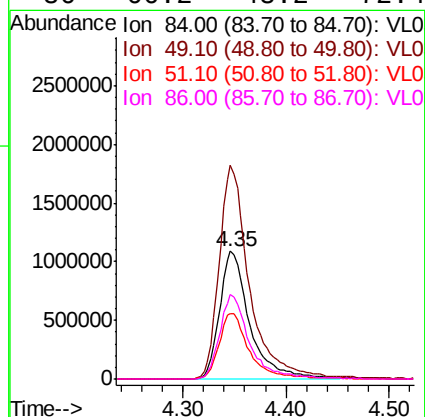
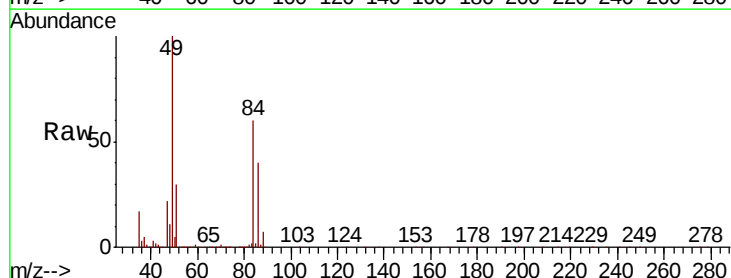
Ion Ratio Lower Upper

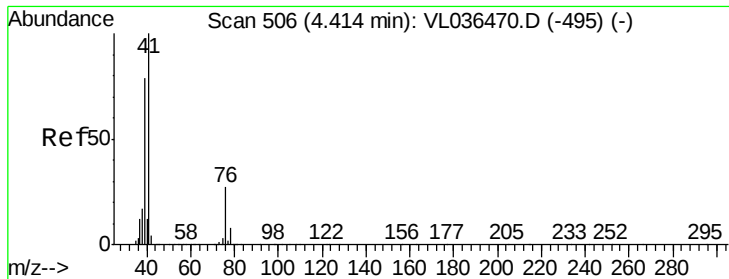
84 100

49 167.0 122.9 184.3

51 50.5 36.9 55.3

86 66.2 48.2 72.4





#21

Allvl Chloride

Concen: 0.396 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.06 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

ClientSampleId :

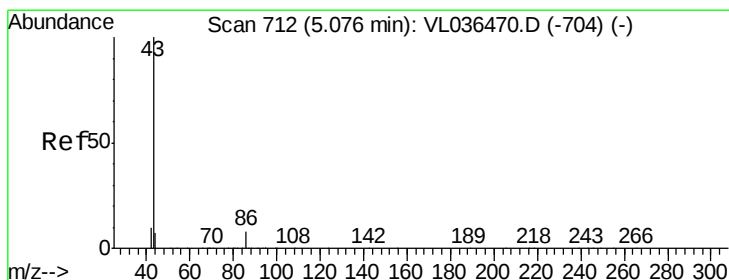
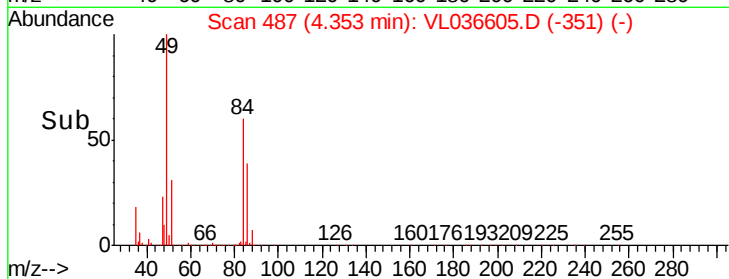
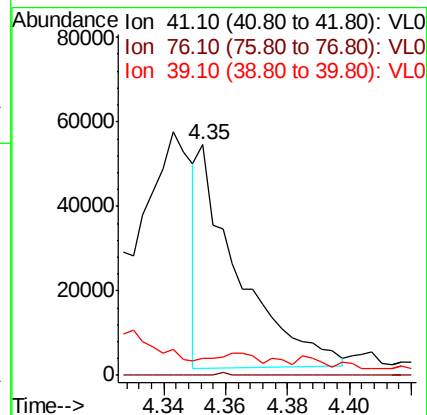
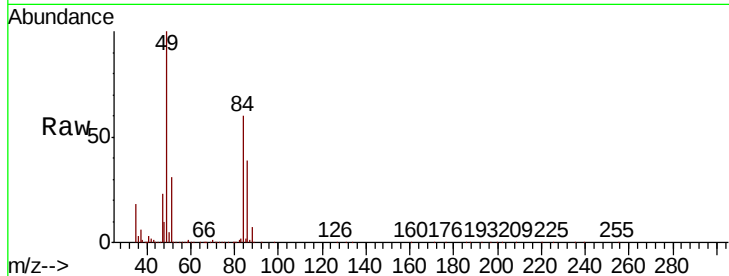
Tot Ion: 41 Resp: 47128

Ion Ratio Lower Upper

41 100

76 38.6 22.9 34.3#

39 0.0 67.3 100.9#



#23

Vinyl Acetate

Concen: 5.577 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Tgt Ion: 43 Resp: 1424812

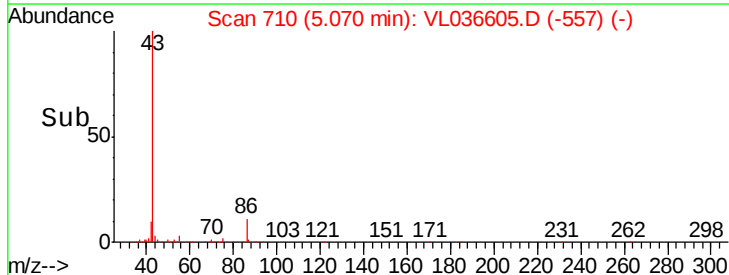
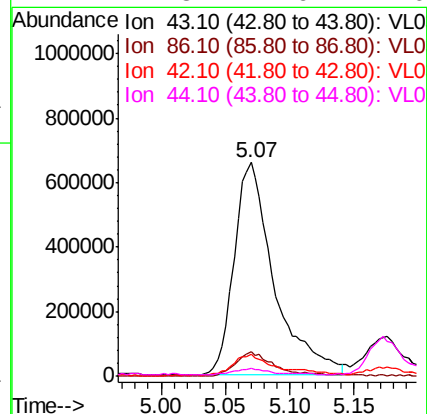
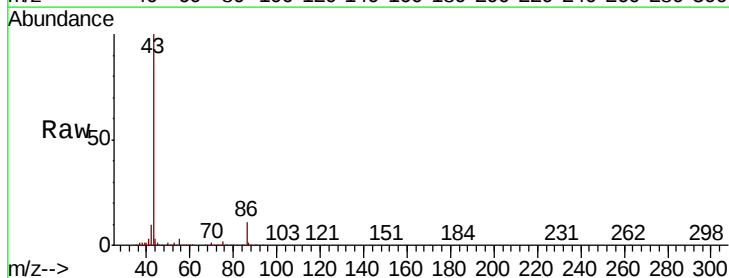
Ion Ratio Lower Upper

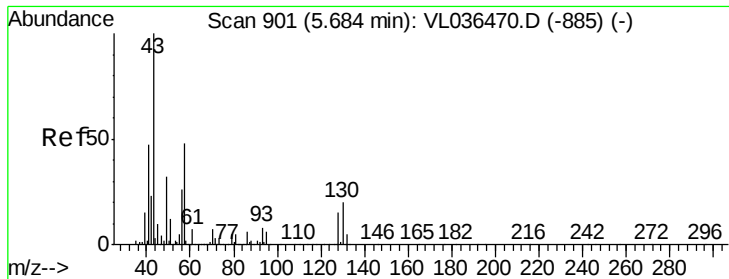
43 100

86 11.1 5.4 8.0#

42 9.5 8.5 12.7

44 2.8 4.6 7.0#



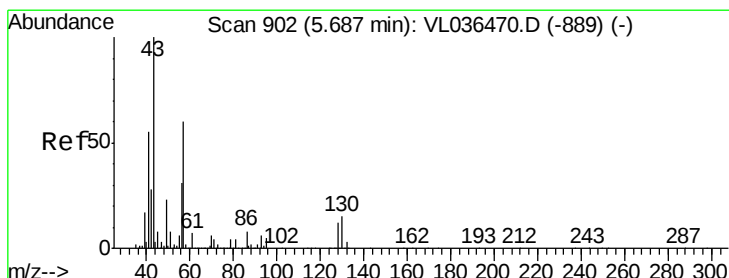
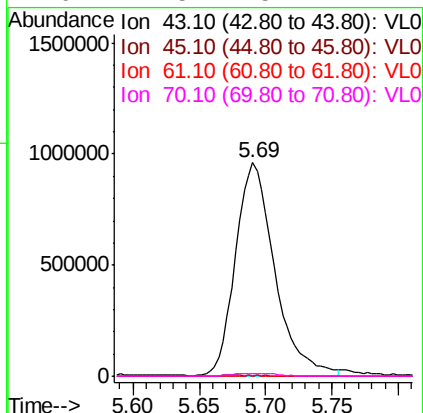
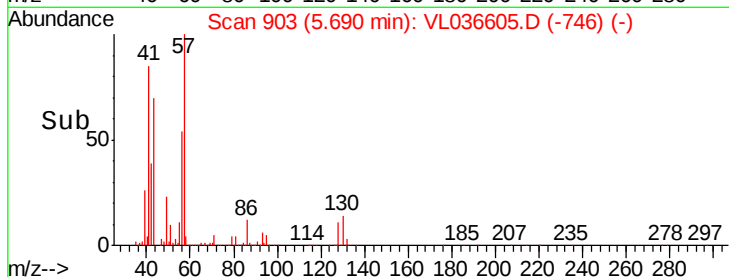
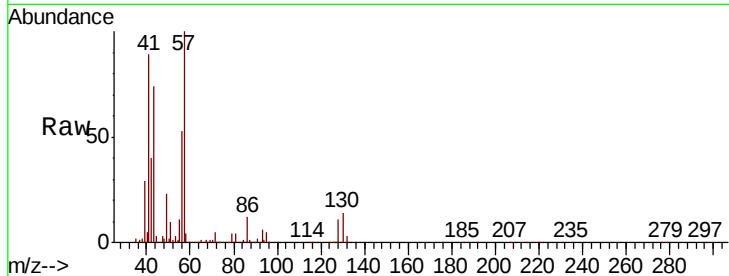


#25  
Ethyl Acetate  
Concen: 5.560 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. 0.01 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 43 Resp: 1974192

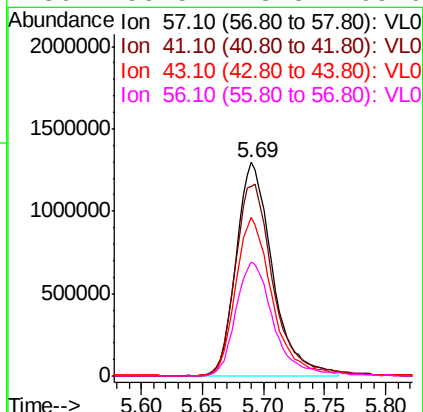
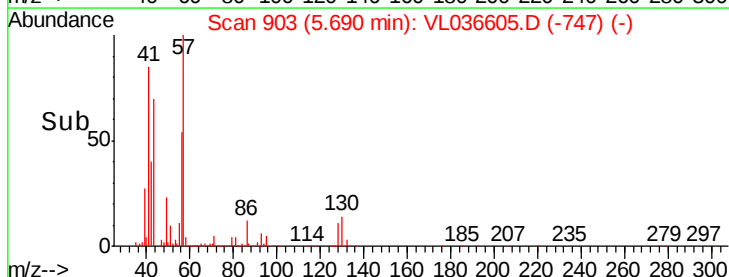
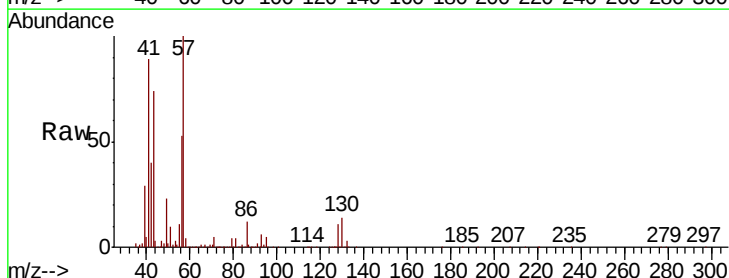
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 0.5   | 7.9   | 11.9# |
| 61  | 0.3   | 7.4   | 11.2# |
| 70  | 1.5   | 5.1   | 7.7#  |

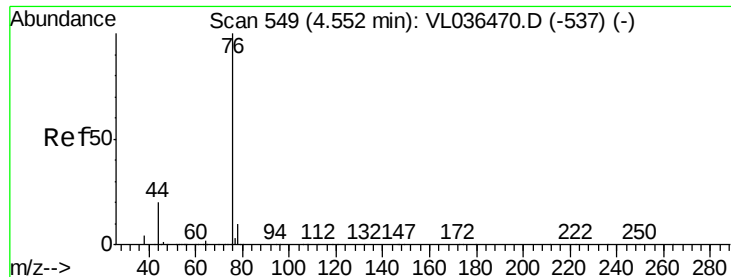


#26  
Hexane  
Concen: 16.231 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. 0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

Tgt Ion: 57 Resp: 2674476

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 57  | 100   |       |        |
| 41  | 95.3  | 77.2  | 115.8  |
| 43  | 75.3  | 173.8 | 260.6# |
| 56  | 55.5  | 43.8  | 65.6   |





#27

Carbon Disulfide

Concen: 0.063 ppbv

RT: 4.55 min Scan# 549

Delta R.T. -0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

ClientSampleId :

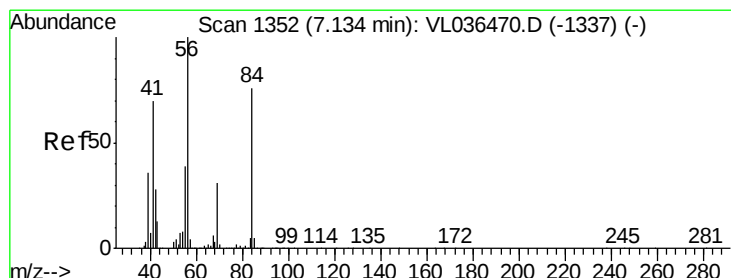
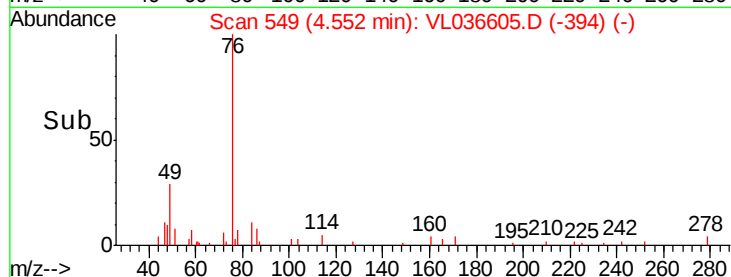
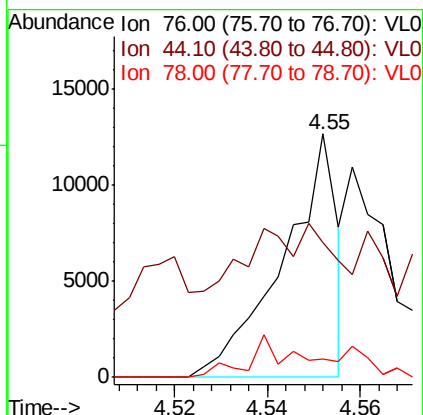
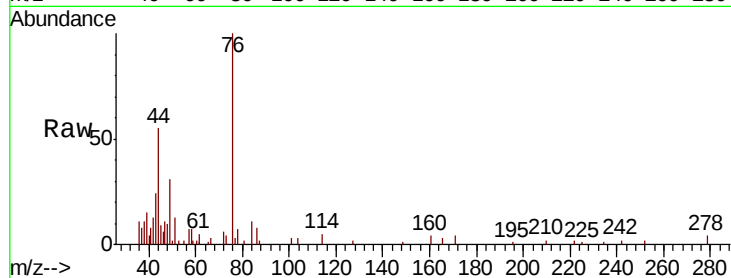
Tot Ion: 76 Resp: 10179

Ion Ratio Lower Upper

76 100

44 170.0 17.5 26.3#

78 27.1 8.6 13.0#



#30

Cyclohexane

Concen: 0.065 ppbv

RT: 7.13 min Scan# 1351

Delta R.T. -0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

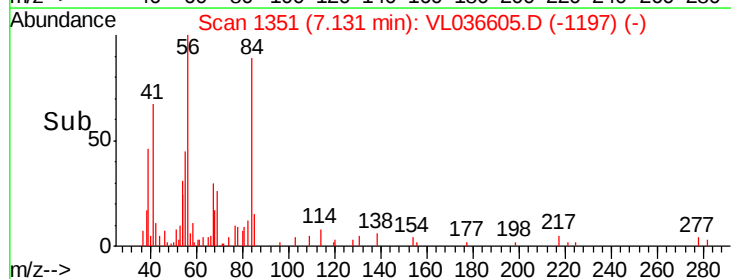
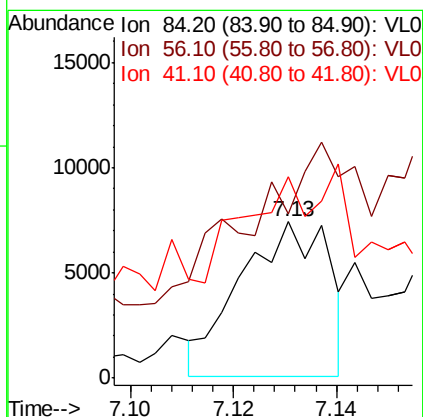
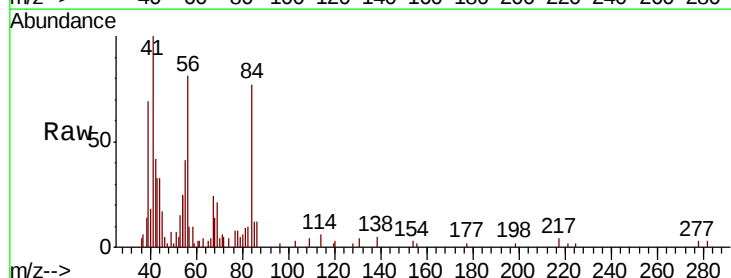
Tgt Ion: 84 Resp: 8662

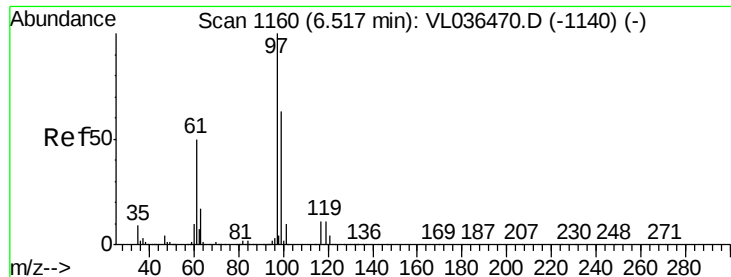
Ion Ratio Lower Upper

84 100

56 0.0 114.6 171.8#

41 0.0 75.3 112.9#





#32

1,1,1-Trichloroethane

Concen: 0.313 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

ClientSampled :

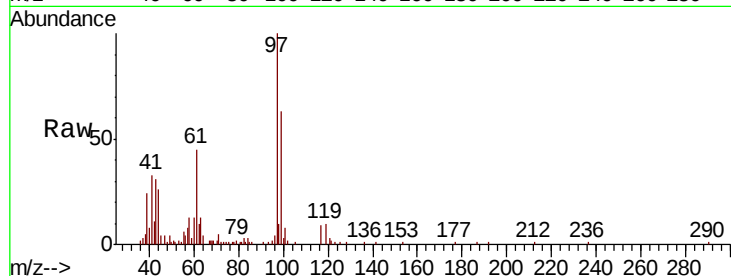
Tot Ion: 97 Resp: 83219

Ion Ratio Lower Upper

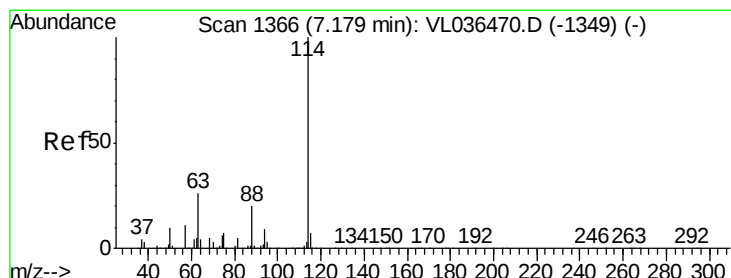
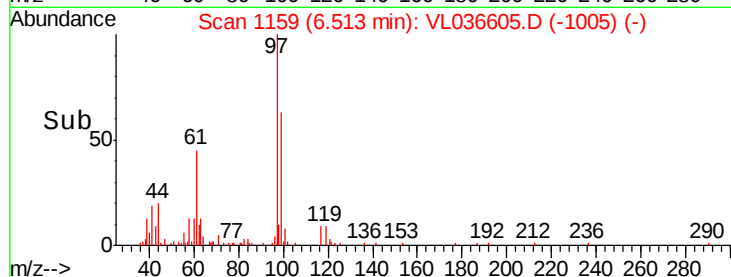
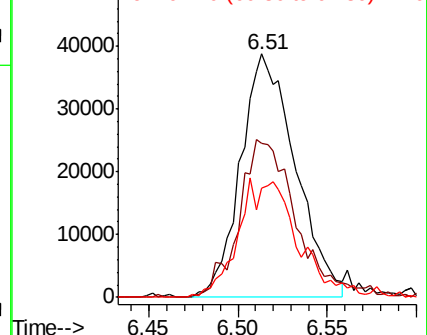
97 100

99 68.5 51.4 77.0

61 53.2 40.6 60.8



Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

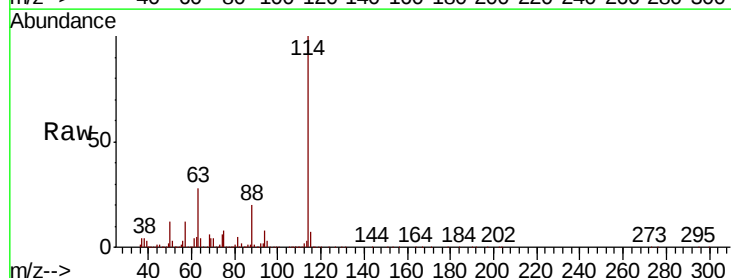
Tgt Ion: 114 Resp: 3643314

Ion Ratio Lower Upper

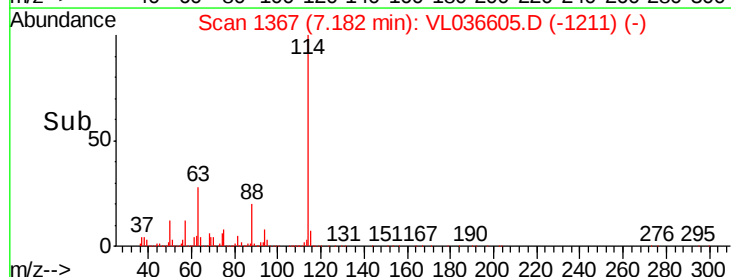
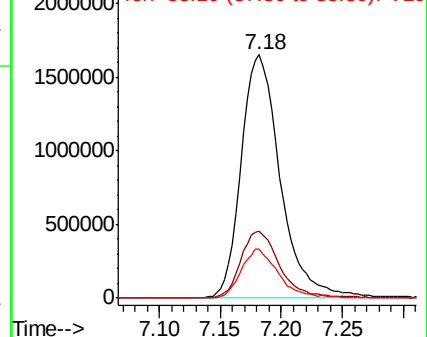
114 100

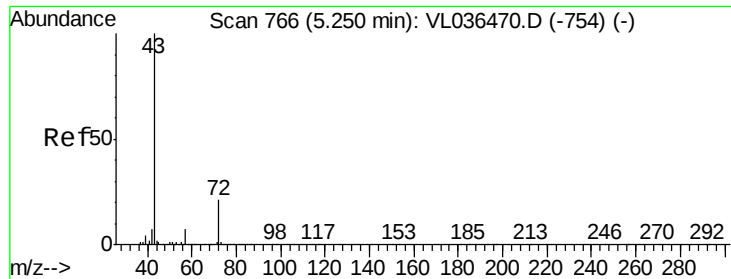
63 28.0 22.4 33.6

88 19.5 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): V  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 7.374 ppbv

RT: 5.25 min Scan# 766

Delta R.T. -0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

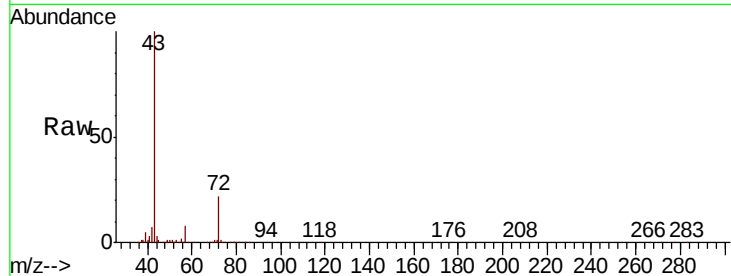
ClientSampleId :

Tot Ion: 43 Resp: 1311373

Ion Ratio Lower Upper

43 100

72 22.5 17.0 25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

5.25

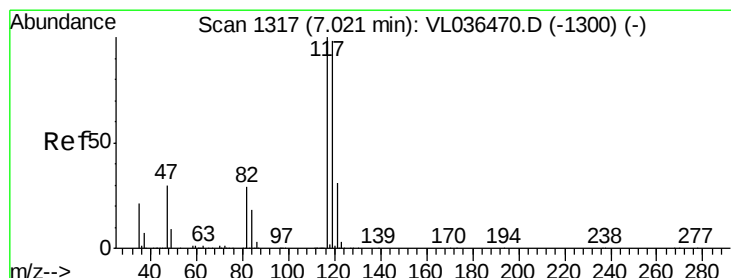
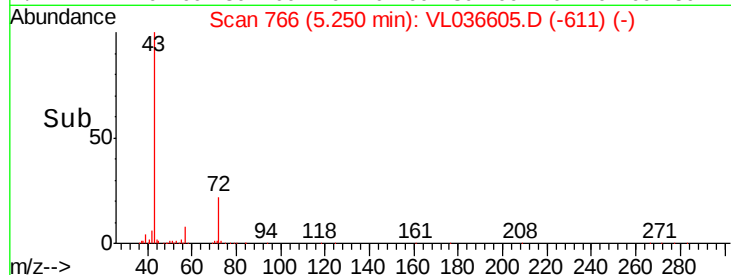
600000

400000

200000

0

Time-->



#35

Carbon Tetrachloride

Concen: 0.022 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.01 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

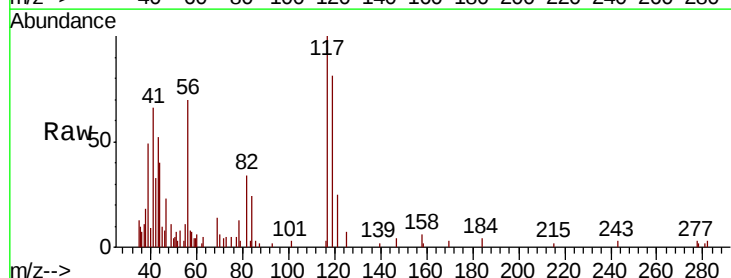
Tgt Ion: 117 Resp: 6255

Ion Ratio Lower Upper

117 100

119 60.1 78.2 117.2#

121 21.7 24.5 36.7#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

7.03

12000

10000

8000

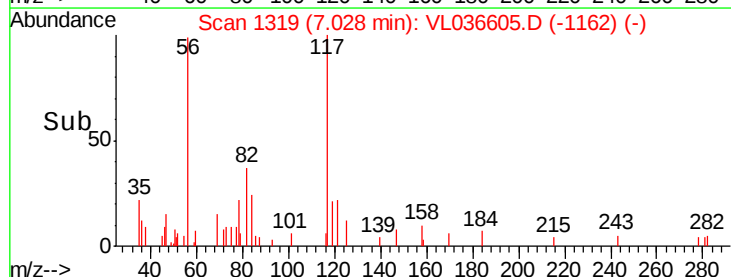
6000

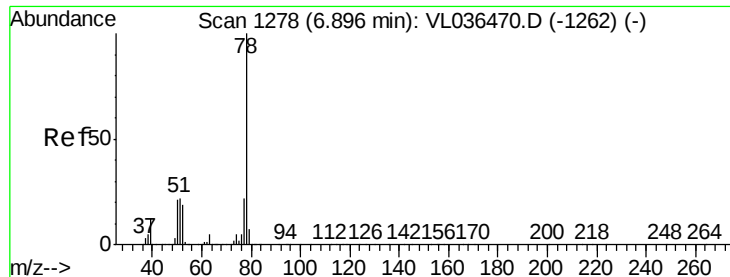
4000

2000

0

Time-->

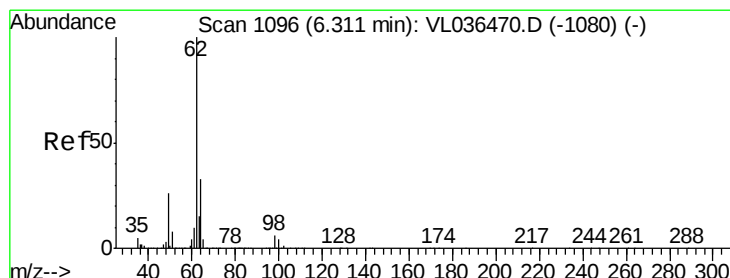
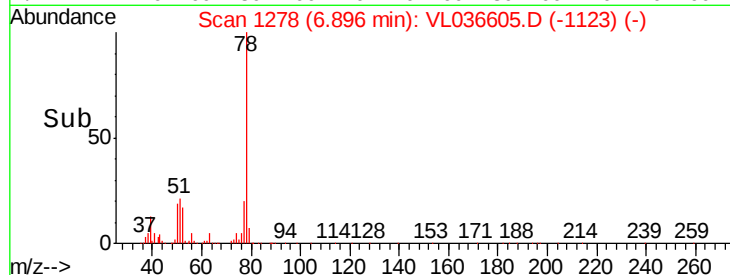
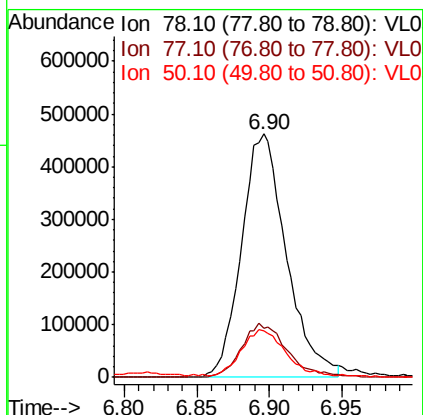
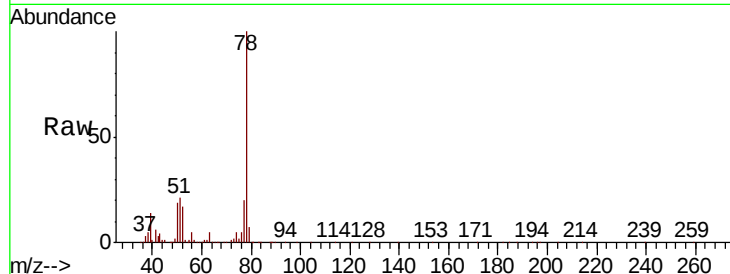




#36  
Benzene  
Concen: 2.958 ppbv  
RT: 6.90 min Scan# 1278  
Delta R.T. -0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

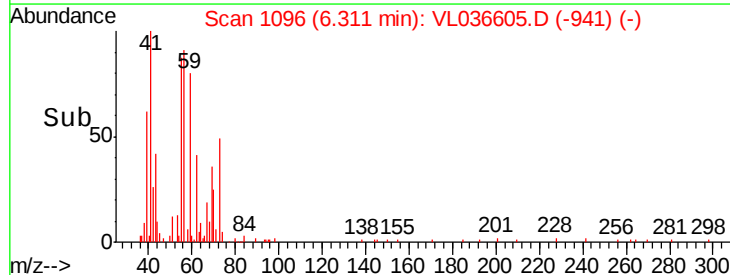
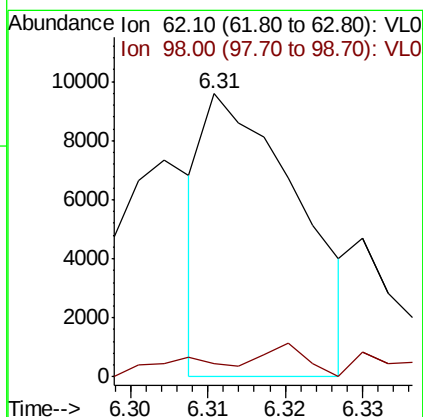
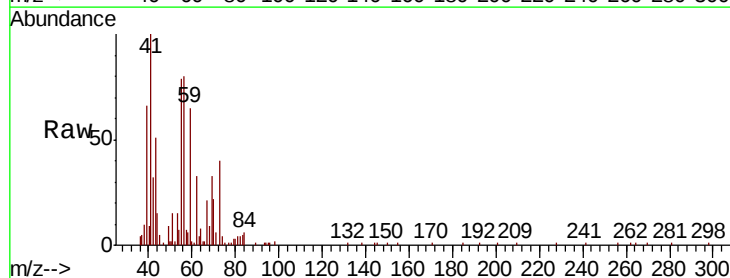
Instrument :  
MSVOA\_L  
ClientSampleId :

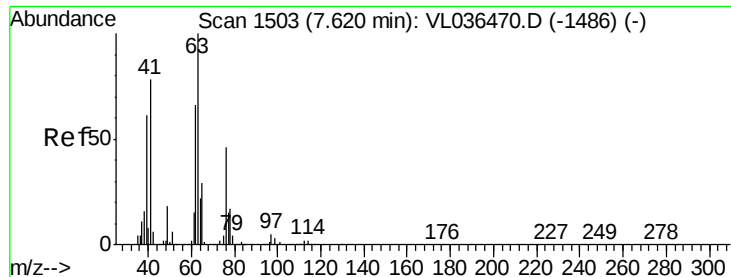
Tot Ion: 78 Resp: 994040  
Ion Ratio Lower Upper  
78 100  
77 20.2 18.0 27.0  
50 18.0 16.5 24.7



#37  
1,2-Dichloroethane  
Concen: 0.041 ppbv  
RT: 6.31 min Scan# 1096  
Delta R.T. -0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

Tgt Ion: 62 Resp: 8142  
Ion Ratio Lower Upper  
62 100  
98 0.0 4.9 7.3#

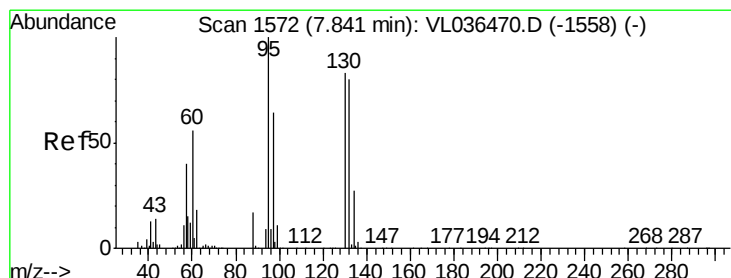
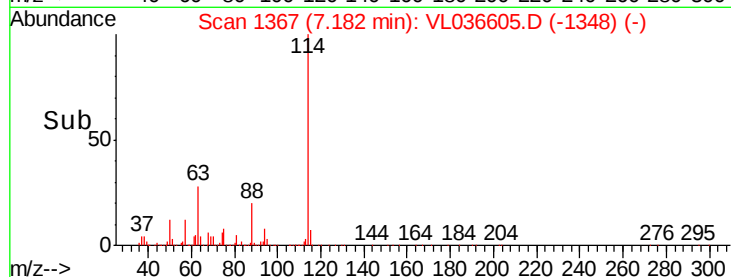
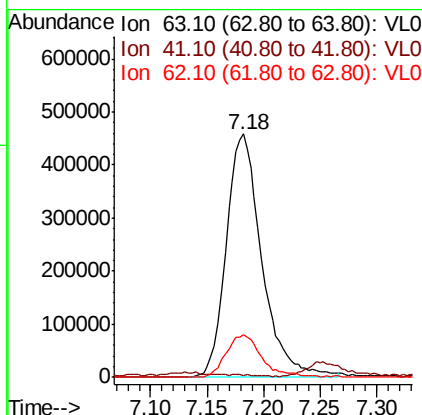
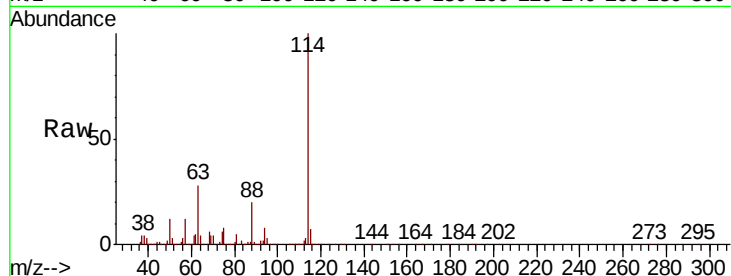




#39  
 1,2-Dichloropropane  
 Concen: 7.352 ppbv  
 RT: 7.18 min Scan# 1367  
 Delta R.T. -0.44 min  
 Lab File: VL036605.D  
 Acq: 31 Mar 2021 17:10

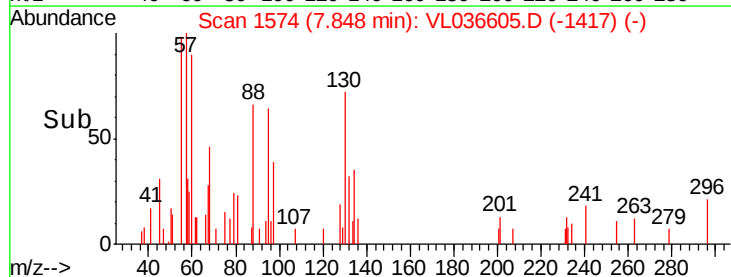
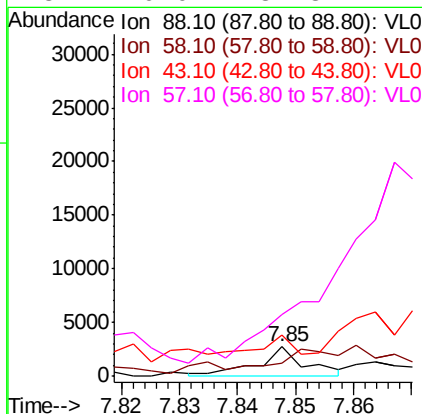
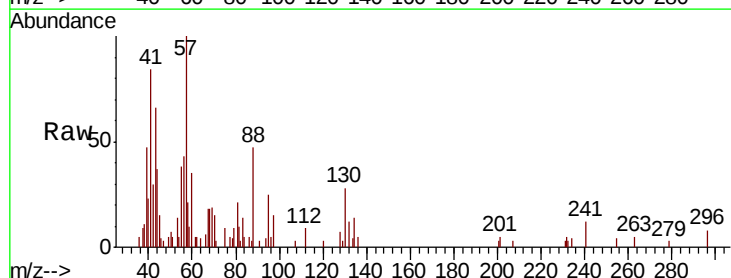
Instrument :  
 MSVOA\_L  
 ClientSampleId :

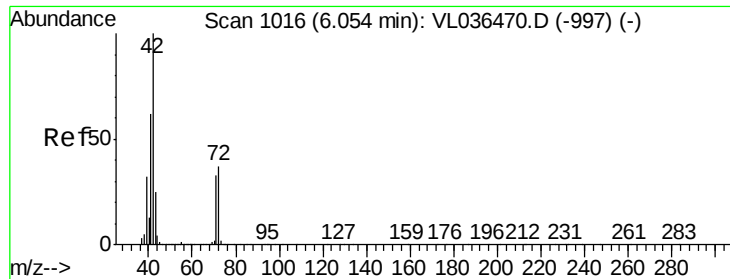
Tot Ion: 63 Resp: 1002112  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 62.4 93.6#  
 62 17.4 52.8 79.2#



#40  
 1,4-Dioxane  
 Concen: 0.049 ppbv  
 RT: 7.85 min Scan# 1574  
 Delta R.T. 0.01 min  
 Lab File: VL036605.D  
 Acq: 31 Mar 2021 17:10

Tgt Ion: 88 Resp: 1554  
 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#

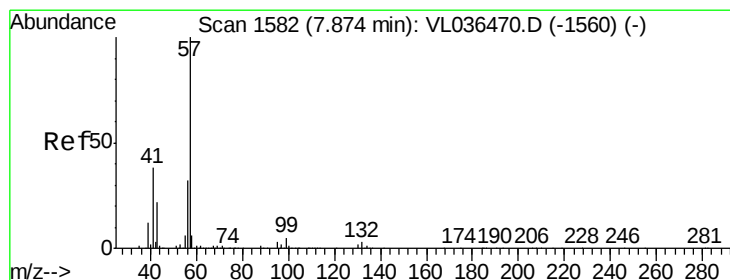
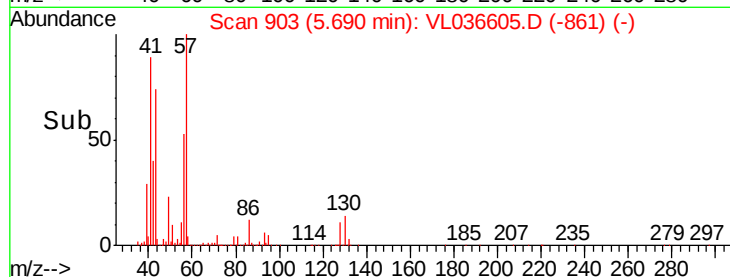
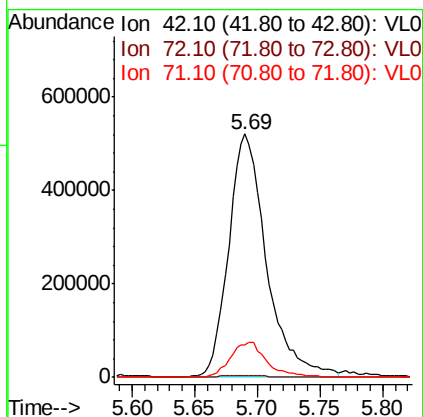
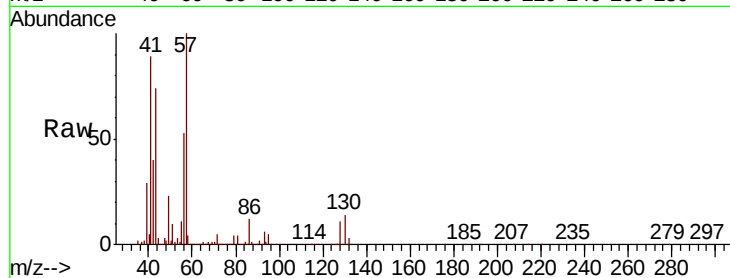




#41  
Tetrahydrofuran  
Concen: 13.311 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. -0.36 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

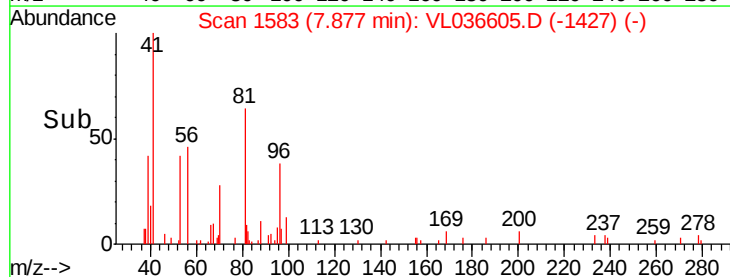
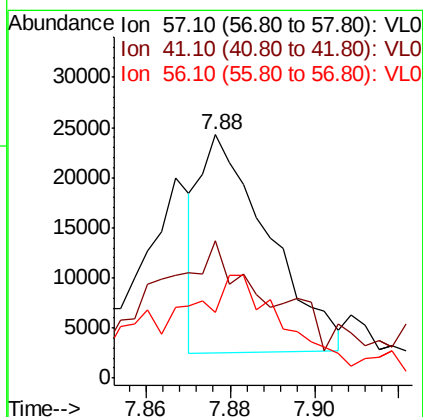
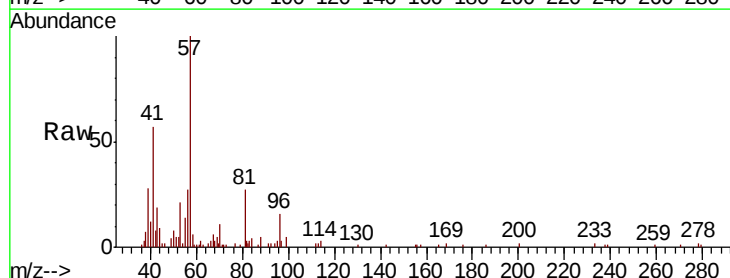
Instrument :  
MSVOA\_L  
ClientSampleId :

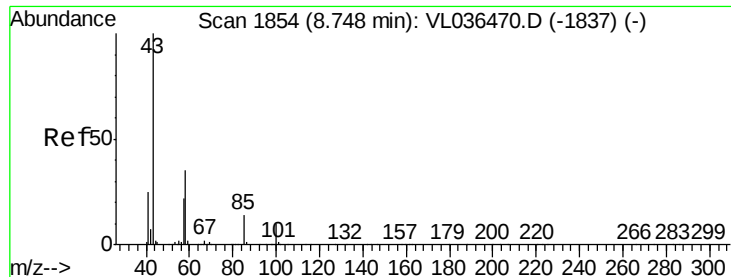
Tot Ion: 42 Resp: 1091522  
Ion Ratio Lower Upper  
42 100  
72 1.0 27.6 41.4#  
71 14.3 27.0 40.4#



#44  
2,2,4-Trimethylpentane  
Concen: 0.041 ppbv  
RT: 7.88 min Scan# 1583  
Delta R.T. 0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

Tgt Ion: 57 Resp: 24332  
Ion Ratio Lower Upper  
57 100  
41 121.3 28.8 43.2#  
56 96.0 26.1 39.1#

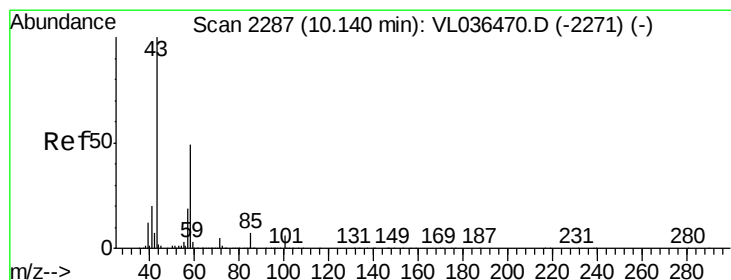
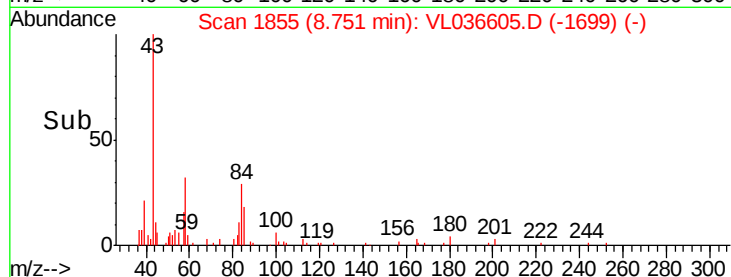
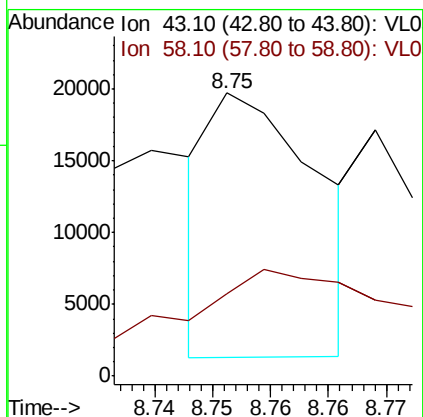
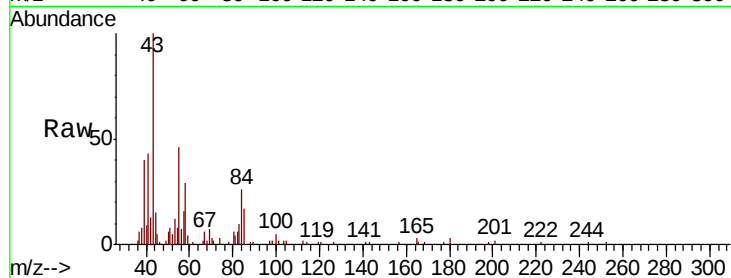




#50  
4-Methyl-2-Pentanone  
Concen: 0.046 ppbv  
RT: 8.75 min Scan# 1855  
Delta R.T. 0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

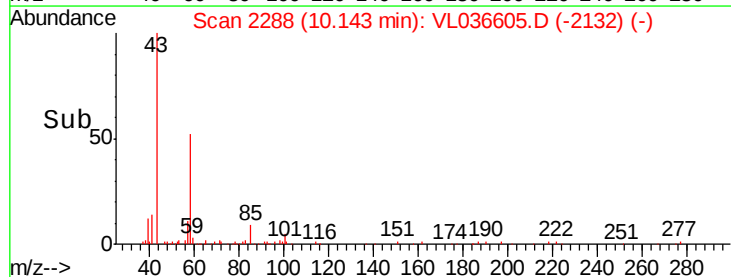
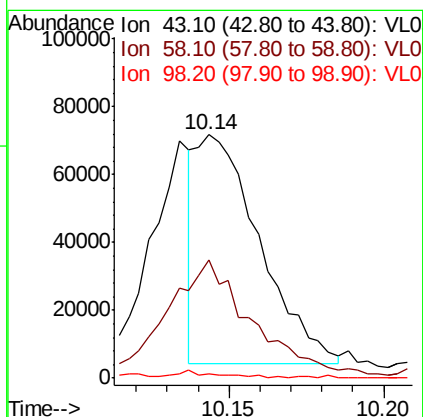
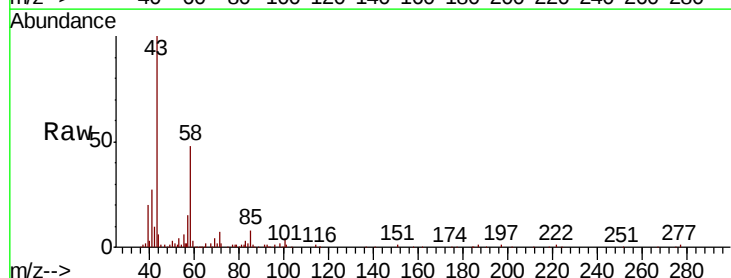
Instrument :  
MSVOA\_L  
ClientSampled :

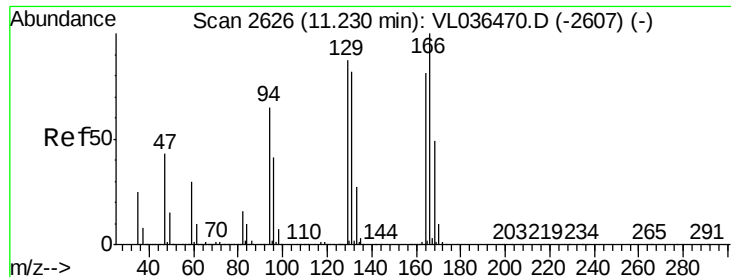
Tot Ion: 43 Resp: 11779  
Ion Ratio Lower Upper  
43 100  
58 139.5 28.2 42.2#



#51  
2-Hexanone  
Concen: 0.734 ppbv  
RT: 10.14 min Scan# 2288  
Delta R.T. 0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

Tgt Ion: 43 Resp: 95380  
Ion Ratio Lower Upper  
43 100  
58 75.1 37.7 56.5#  
98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 1.169 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:164 Resp: 144661

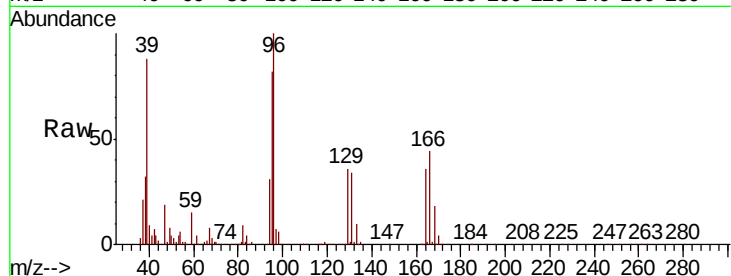
Ion Ratio Lower Upper

164 100

166 124.4 98.3 147.5

129 100.9 85.8 128.8

131 96.6 80.9 121.3

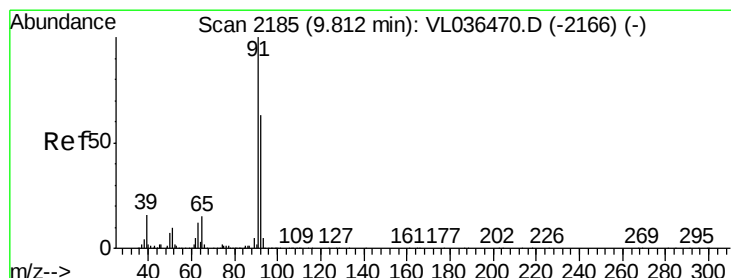
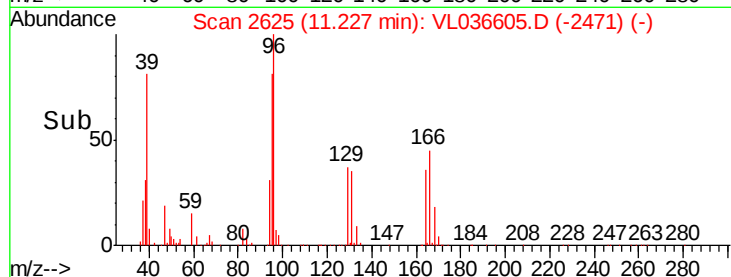
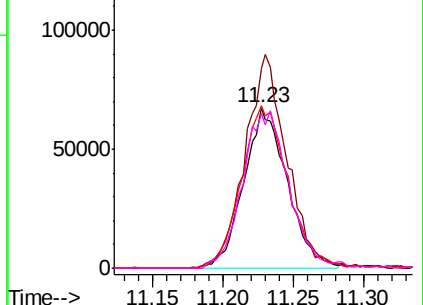


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 2.497 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL036605.D

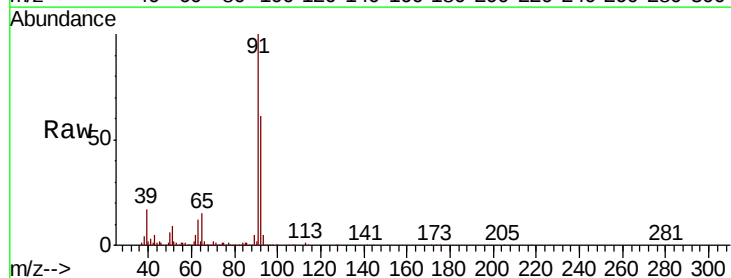
Acq: 31 Mar 2021 17:10

Tgt Ion: 91 Resp: 893544

Ion Ratio Lower Upper

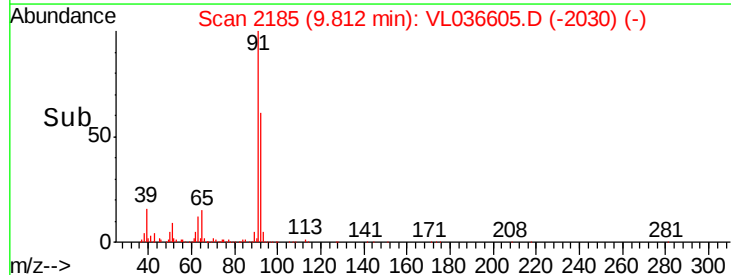
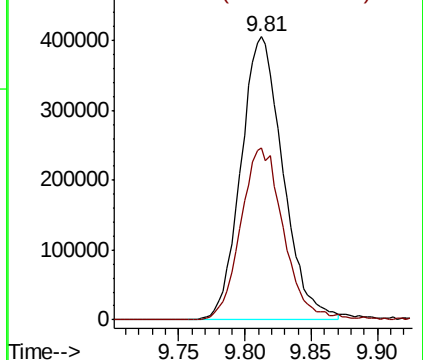
91 100

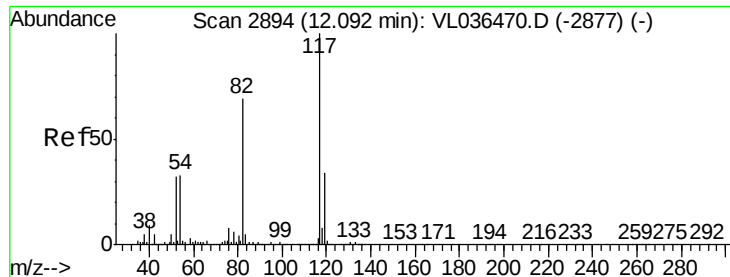
92 62.6 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

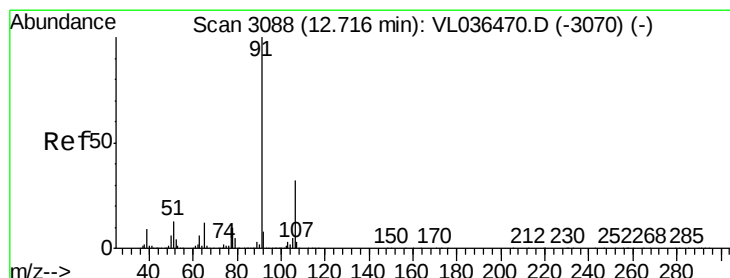
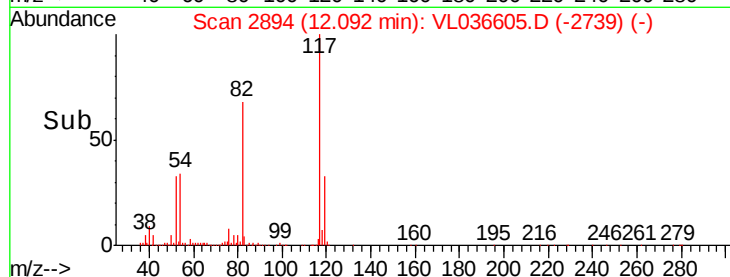
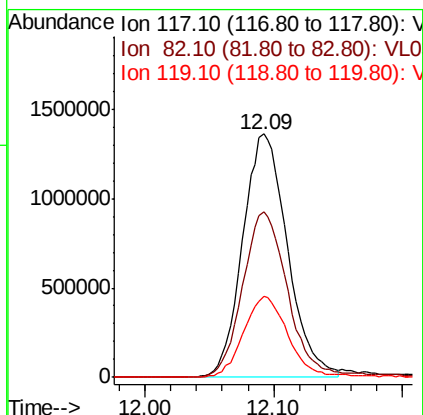
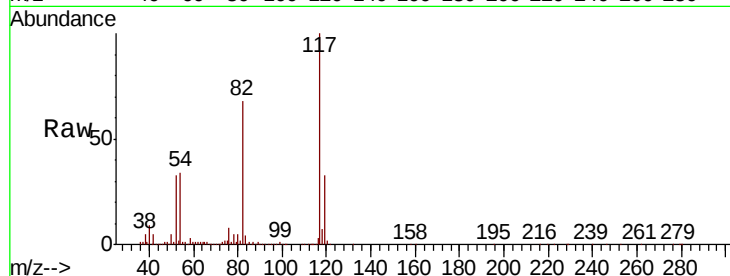




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.09 min Scan# 2894  
Delta R.T. -0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

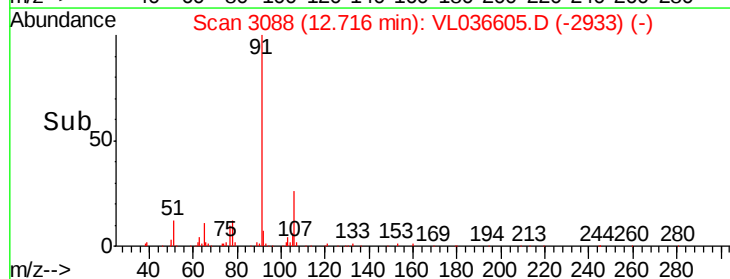
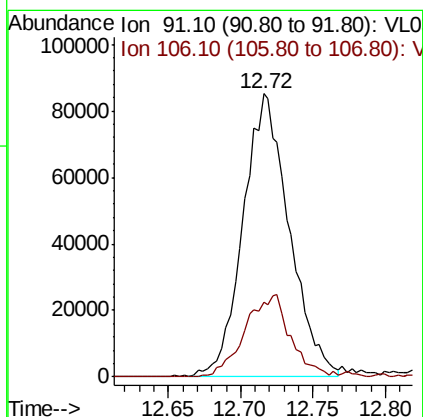
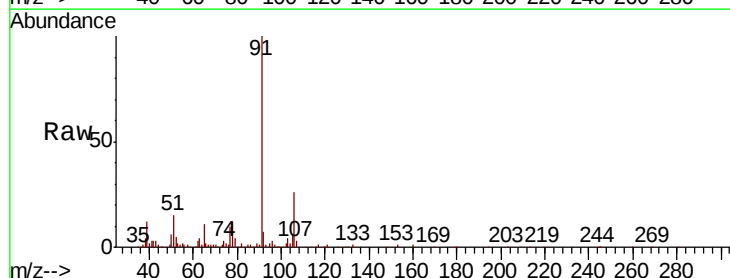
Instrument :  
MSVOA\_L  
ClientSampleId :

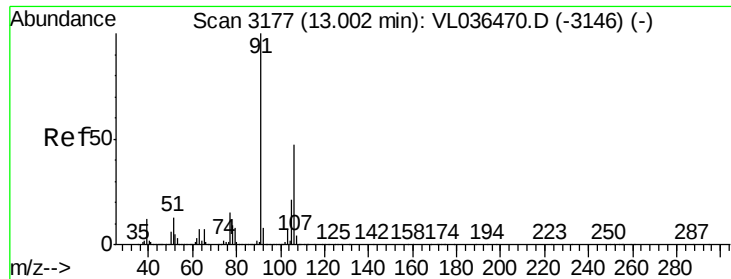
Tot Ion:117 Resp: 3294075  
Ion Ratio Lower Upper  
117 100  
82 70.2 57.4 86.0  
119 33.7 47.4 71.0#



#58  
Ethyl Benzene  
Concen: 0.394 ppbv  
RT: 12.72 min Scan# 3088  
Delta R.T. -0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

Tgt Ion: 91 Resp: 188658  
Ion Ratio Lower Upper  
91 100  
106 26.3 25.3 37.9

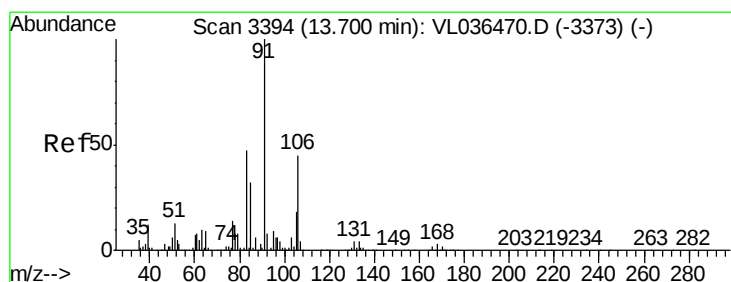
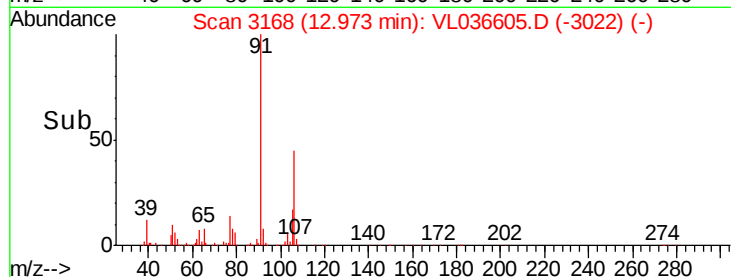
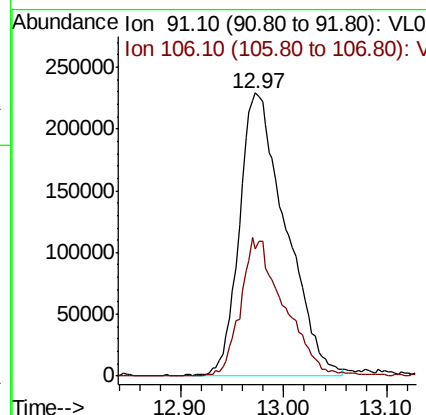
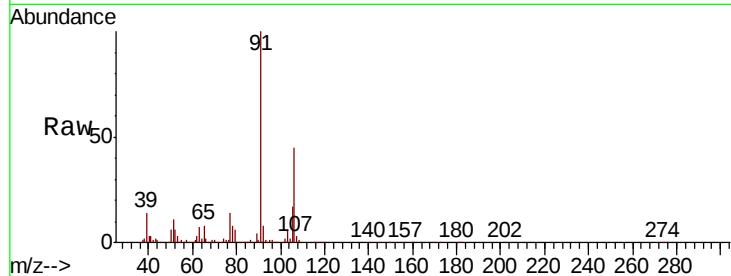




#59  
m/p-Xylene  
Concen: 1.701 ppbv  
RT: 12.97 min Scan# 3168  
Delta R.T. -0.03 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

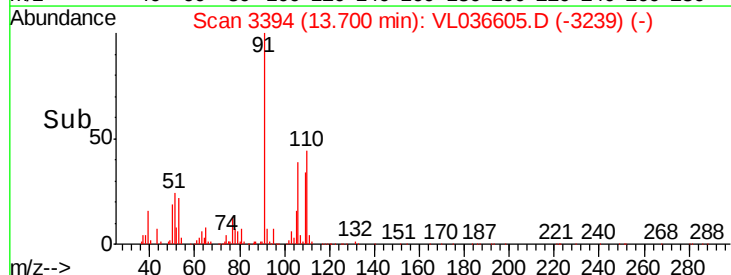
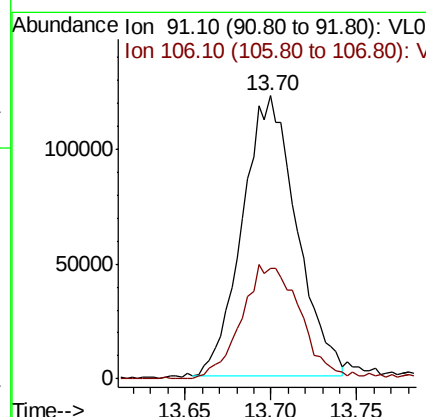
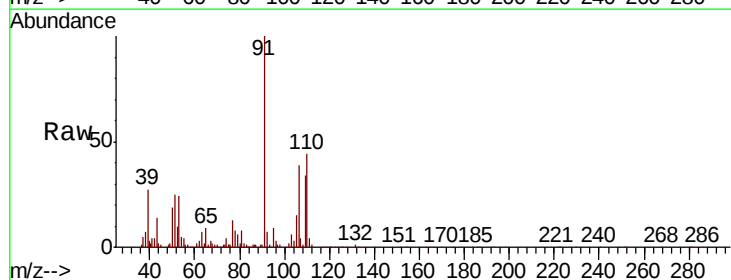
Instrument :  
MSVOA\_L  
ClientSampleId :

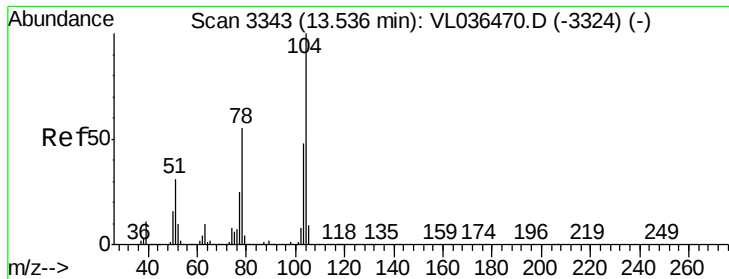
Tot Ion: 91 Resp: 711039  
Ion Ratio Lower Upper  
91 100  
106 46.5 35.3 52.9



#60  
o-Xylene  
Concen: 0.659 ppbv  
RT: 13.70 min Scan# 3394  
Delta R.T. -0.00 min  
Lab File: VL036605.D  
Acq: 31 Mar 2021 17:10

Tgt Ion: 91 Resp: 266226  
Ion Ratio Lower Upper  
91 100  
106 45.3 22.3 66.9





#61

Stvrene

Concen: 0.026 ppbv

RT: 13.54 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

ClientSampleId :

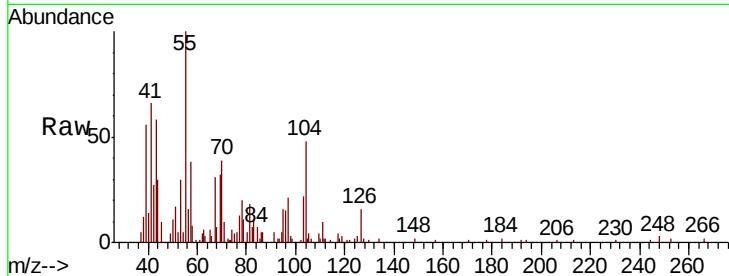
Tot Ion:104 Resp: 5247

Ion Ratio Lower Upper

104 100

78 0.0 43.8 65.8#

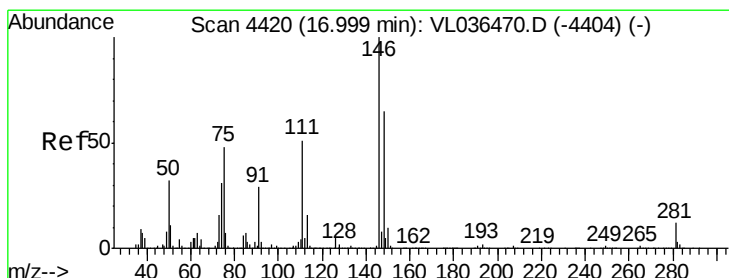
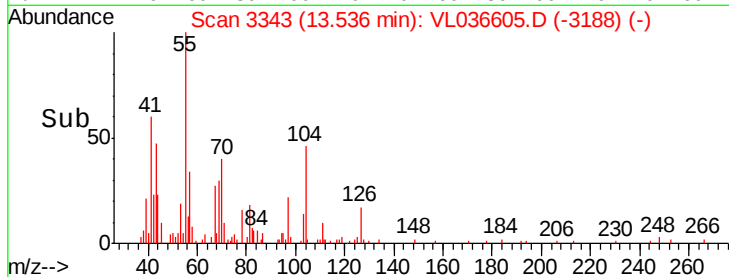
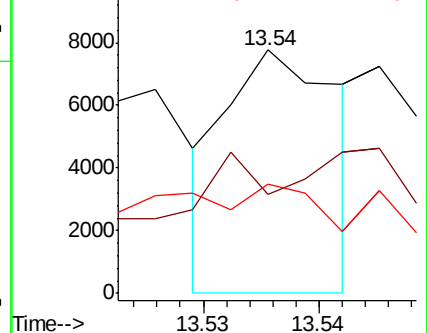
103 170.1 38.3 57.5#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#66

Benzyl Chloride

Concen: 0.045 ppbv

RT: 17.00 min Scan# 4420

Delta R.T. -0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

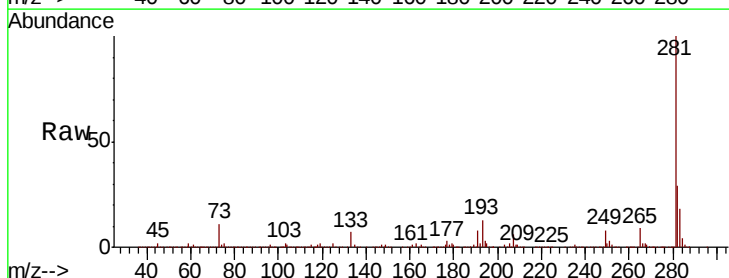
Tgt Ion: 91 Resp: 2358

Ion Ratio Lower Upper

91 100

126 0.0 13.5 20.3#

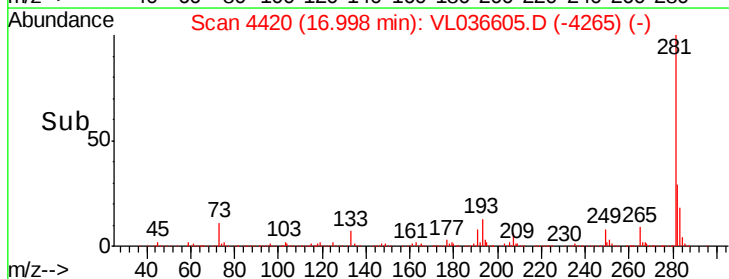
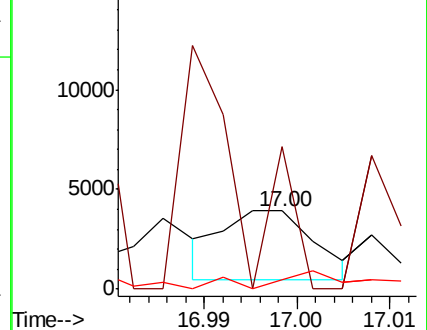
128 27.6 4.2 6.4#

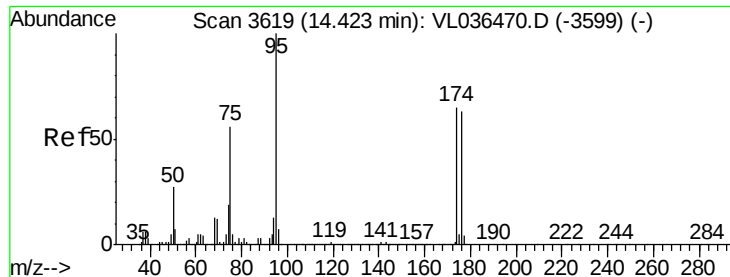


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.609 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

ClientSampled :

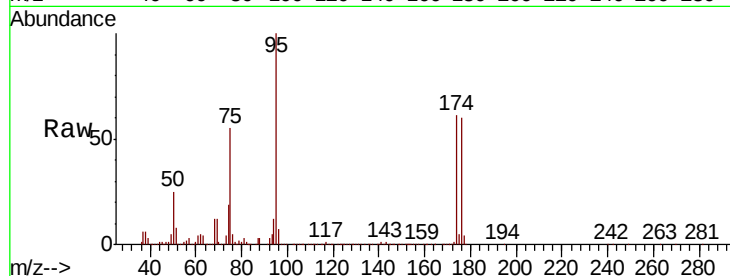
Tot Ion: 95 Resp: 2785274

Ion Ratio Lower Upper

95 100

174 63.2 51.0 76.6

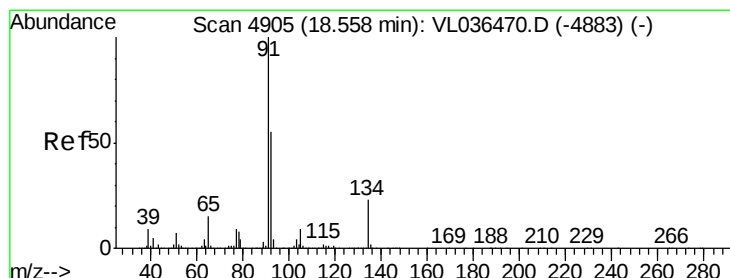
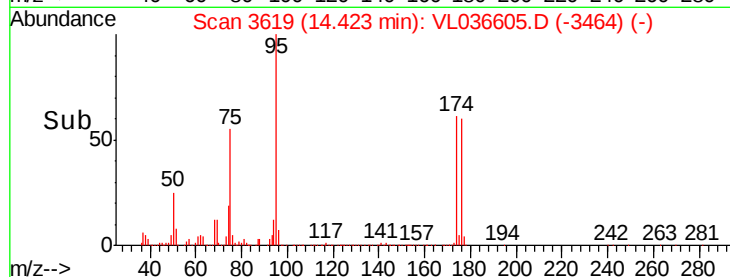
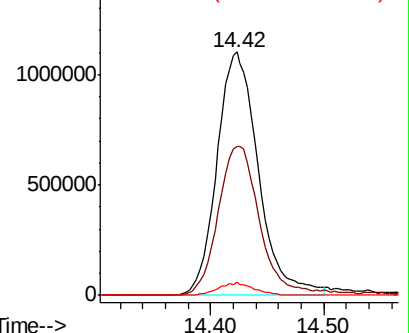
175 4.8 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#70

n-Butylbenzene

Concen: 0.023 ppbv

RT: 18.56 min Scan# 4907

Delta R.T. 0.01 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

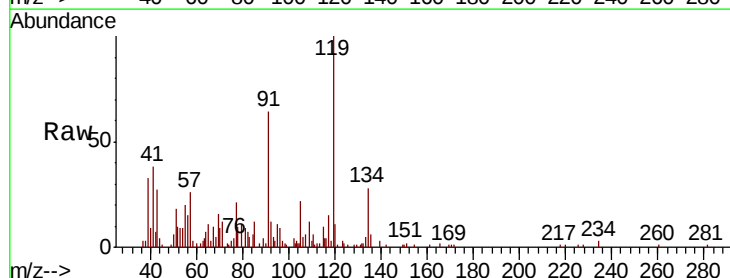
Tgt Ion: 91 Resp: 12522

Ion Ratio Lower Upper

91 100

92 117.0 43.8 65.8#

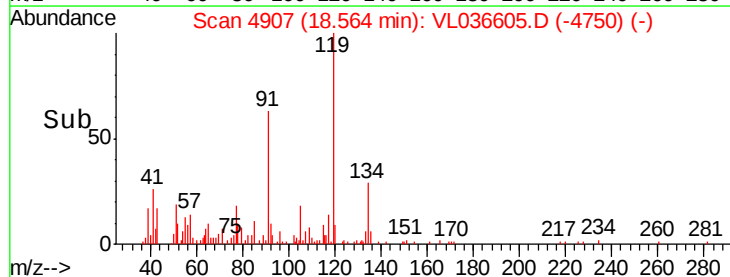
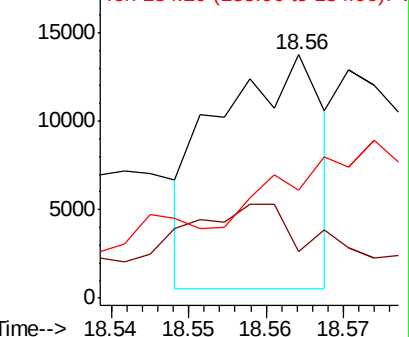
134 0.0 18.0 27.0#

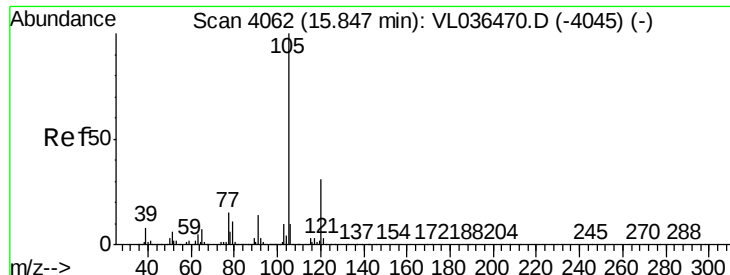


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#72

4-Ethyltoluene

Concen: 0.134 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. 0.01 min

Lab File: VL036605.D

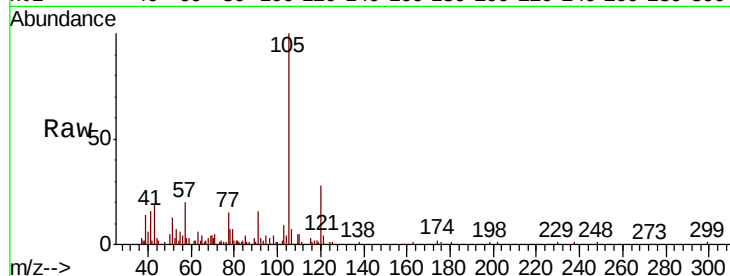
Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 105   | Resp: | 59351 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 58.9  | 24.0  | 36.0# |
| 91       | 0.0   | 11.0  | 16.4# |
| 77       | 33.6  | 11.7  | 17.5# |

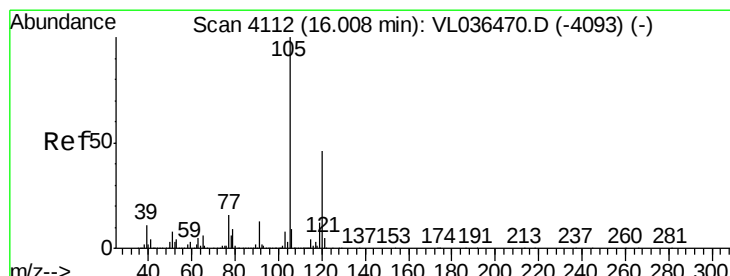
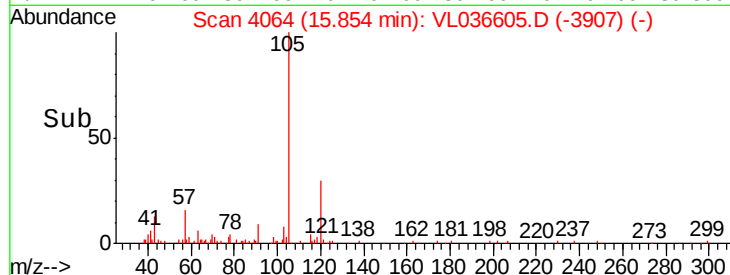
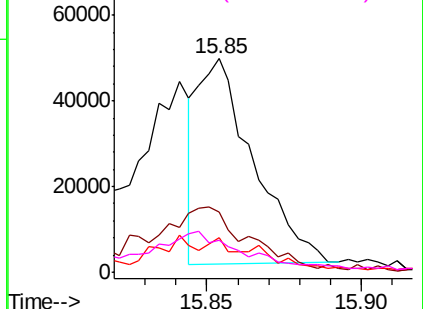


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.268 ppbv

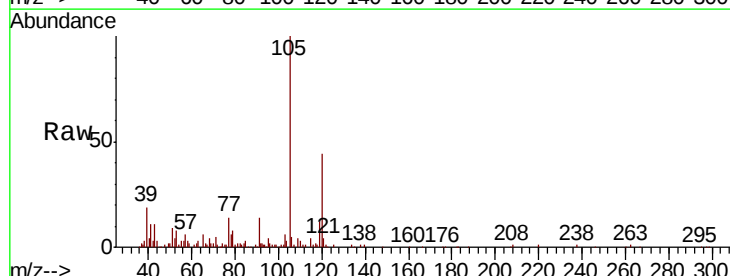
RT: 16.00 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL036605.D

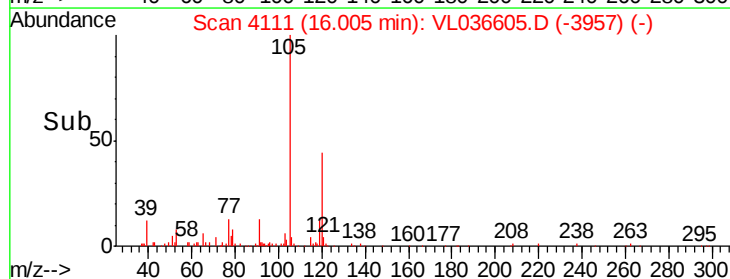
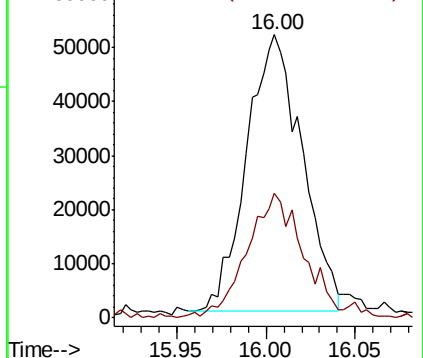
Acq: 31 Mar 2021 17:10

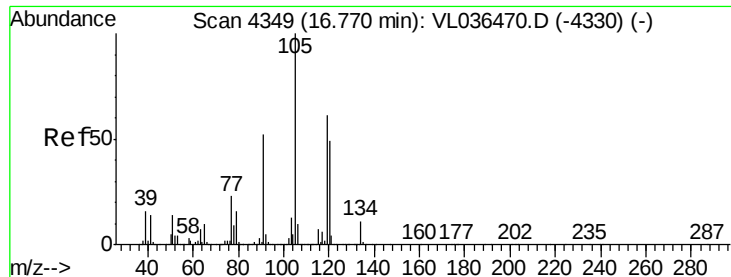
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 110671 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 44.2  | 36.6  | 54.8   |



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.766 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. -0.00 min

Lab File: VL036605.D

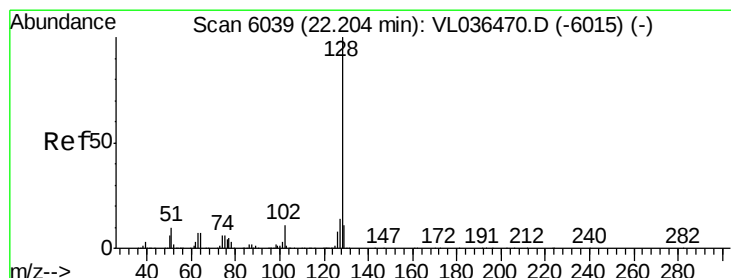
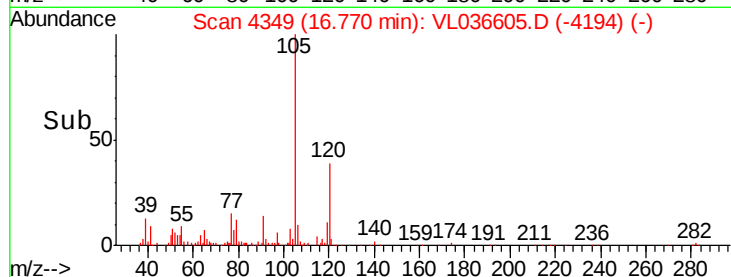
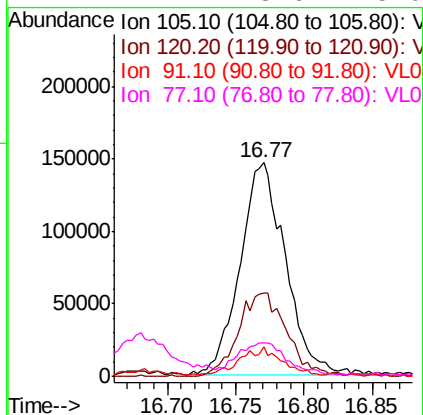
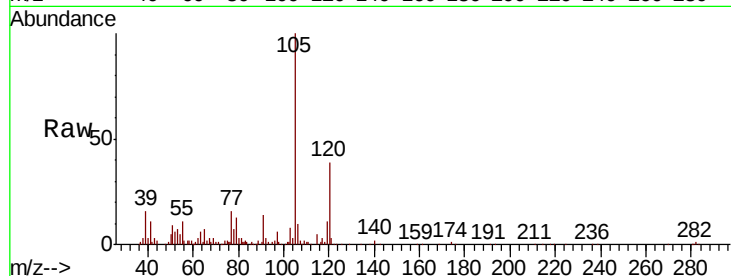
Acq: 31 Mar 2021 17:10

Instrument :

MSVOA\_L

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 105   | Resp: | 339053 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 39.2  | 39.2  | 58.8   |
| 91       | 13.5  | 42.6  | 64.0#  |
| 77       | 14.7  | 18.6  | 28.0#  |



#79

Naphthalene

Concen: 0.020 ppbv

RT: 22.20 min Scan# 6039

Delta R.T. -0.00 min

Lab File: VL036605.D

Acq: 31 Mar 2021 17:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 5257  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.9  | 16.3# |
| 129      | 55.6  | 9.0   | 13.4# |

