

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\  
 Data File : VL036983.D  
 Acq On : 19 May 2021 00:08  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: May 19 03:16:48 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 12:00:15 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1195958  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 3637453  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 4496358  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2842711  | 8.42     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 84.20% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.03 | 85   | 1987590  | 9.797  | ppbv  | 100    |
| 3) Chlorodifluoromethane       | 2.97 | 51   | 2166148  | 9.886  | ppbv  | 99     |
| 4) Chloromethane               | 3.12 | 50   | 760868   | 10.205 | ppbv  | 100    |
| 5) Vinyl Chloride              | 3.24 | 62   | 805499   | 9.884  | ppbv  | 100    |
| 6) Bromomethane                | 3.46 | 94   | 461988   | 10.758 | ppbv  | 99     |
| 7) Chloroethane                | 3.54 | 64   | 273553   | 10.338 | ppbv  | 98     |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85   | 1892655  | 9.936  | ppbv  | 98     |
| 9) Propene                     | 3.00 | 41   | 772450   | 9.846  | ppbv  | 99     |
| 10) Heptane                    | 8.10 | 43   | 1830435  | 9.362  | ppbv  | 99     |
| 11) Trichlorofluoromethane     | 3.93 | 101  | 1919286  | 10.220 | ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101  | 1343101  | 10.041 | ppbv  | 98     |
| 13) Ethanol                    | 3.60 | 45   | 59171    | 5.653  | ppbv  | 80     |
| 14) Bromoethene                | 3.72 | 108  | 596028   | 10.116 | ppbv  | 99     |
| 15) Acetone                    | 3.84 | 43   | 1013140  | 8.271  | ppbv  | 97     |
| 16) 1,3-Butadiene              | 3.31 | 39   | 763092   | 10.027 | ppbv  | 98     |
| 17) tert-Butyl alcohol         | 4.27 | 59   | 1067620  | 9.515  | ppbv  | 100    |
| 18) 1,1-Dichloroethene         | 4.27 | 96   | 623397   | 10.078 | ppbv  | 99     |
| 19) Isopropyl Alcohol          | 3.95 | 45   | 616684   | 9.365  | ppbv  | # 34   |
| 20) Methylene Chloride         | 4.33 | 84   | 518018   | 7.889  | ppbv  | 98     |
| 21) Allyl Chloride             | 4.40 | 41   | 926371   | 10.024 | ppbv  | 96     |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96   | 613012   | 10.341 | ppbv  | 97     |
| 23) Vinyl Acetate              | 5.06 | 43   | 1932294  | 9.938  | ppbv  | # 99   |
| 24) 1,1-Dichloroethane         | 4.99 | 63   | 1441867  | 10.302 | ppbv  | 100    |
| 25) Ethyl Acetate              | 5.66 | 43   | 2786590  | 9.467  | ppbv  | 100    |
| 26) Hexane                     | 5.67 | 57   | 1358132  | 9.032  | ppbv  | 99     |
| 27) Carbon Disulfide           | 4.53 | 76   | 1457019  | 9.614  | ppbv  | 99     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1701203  | 9.438  | ppbv  | 99     |
| 29) Chloroform                 | 5.74 | 83   | 2060397  | 9.698  | ppbv  | 98     |
| 30) Cyclohexane                | 7.11 | 84   | 1191321  | 9.323  | ppbv  | 99     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61   | 1315489  | 9.757  | ppbv  | 97     |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97   | 2088089  | 9.153  | ppbv  | 99     |
| 34) 2-Butanone                 | 5.23 | 43   | 1319584  | 9.963  | ppbv  | 99     |
| 35) Carbon Tetrachloride       | 7.00 | 117  | 2161645  | 8.944  | ppbv  | 100    |
| 36) Benzene                    | 6.87 | 78   | 2838796  | 9.061  | ppbv  | 100    |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 1530785  | 9.855  | ppbv  | 100    |
| 38) Trichloroethene            | 7.82 | 130  | 1133380  | 8.456  | ppbv  | 99     |
| 39) 1,2-Dichloropropane        | 7.59 | 63   | 1096603  | 9.086  | ppbv  | 97     |
| 40) 1,4-Dioxane                | 7.81 | 88   | 106426   | 3.734  | ppbv  | # 100  |
| 41) Tetrahydrofuran            | 6.03 | 42   | 679879   | 9.013  | ppbv  | 99     |
| 42) Bromodichloromethane       | 7.77 | 83   | 2223388  | 9.461  | ppbv  | 98     |
| 43) Methyl Methacrylate        | 7.99 | 69   | 1033991  | 9.575  | ppbv  | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\  
 Data File : VL036983.D  
 Acq On : 19 May 2021 00:08  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

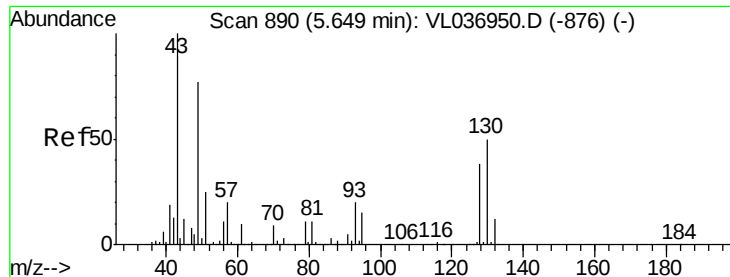
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: May 19 03:16:48 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 12:00:15 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.85  | 57   | 4689375  | 8.724  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.26  | 75   | 1017170  | 12.329 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.68  | 75   | 1340620  | 12.081 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.46  | 97   | 1182122  | 9.358  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.28 | 129  | 2120717  | 10.368 | ppbv   | 100      |
| 49) Bromoform                 | 13.02 | 173  | 1764470  | 10.446 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 2058235  | 9.417  | ppbv   | 98       |
| 51) 2-Hexanone                | 10.12 | 43   | 1139564  | 9.863  | ppbv   | 98       |
| 52) Tetrachloroethene         | 11.20 | 164  | 1223195  | 9.818  | ppbv   | 94       |
| 53) Toluene                   | 9.78  | 91   | 3472927  | 9.316  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.59 | 107  | 1875859  | 10.445 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.10 | 131  | 1420597  | 7.509  | ppbv   | 98       |
| 57) Chlorobenzene             | 12.13 | 112  | 2698474  | 7.740  | ppbv   | 96       |
| 58) Ethyl Benzene             | 12.69 | 91   | 4744316  | 7.476  | ppbv   | 98       |
| 59) m/p-Xylene                | 12.98 | 91   | 4123560  | 7.861  | ppbv # | 38       |
| 60) o-Xylene                  | 13.67 | 91   | 3697177  | 7.390  | ppbv   | 99       |
| 61) Styrene                   | 13.51 | 104  | 2285576  | 8.109  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.64 | 105  | 5244846  | 7.294  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.65 | 83   | 2544283  | 6.809  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.54 | 120  | 1446007  | 7.795  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 4697525  | 7.240  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.97 | 91   | 250230   | 6.951  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 17.27 | 105  | 6391488  | 7.221  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.63 | 119  | 5560776  | 7.307  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.53 | 91   | 5340877  | 7.388  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.43 | 91   | 3917953  | 7.544  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 4604257  | 7.754  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 4138995  | 7.423  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 4272827  | 7.411  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 16.98 | 146  | 2727242  | 7.746  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.11 | 146  | 2639018  | 7.414  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 2632932  | 7.464  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 1843775  | 6.500  | ppbv   | 100      |
| 79) Naphthalene               | 22.17 | 128  | 3999503  | 8.841  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.96 | 142  | 1167199  | 11.865 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 2235465  | 8.106  | ppbv   | 100      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

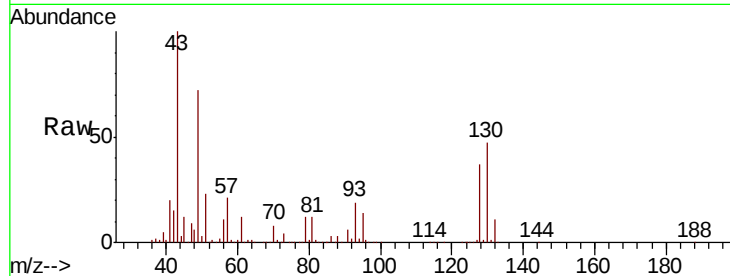
Tot Ion: 49 Resp: 1195958

Ion Ratio Lower Upper

49 100

128 56.1 26.9 80.7

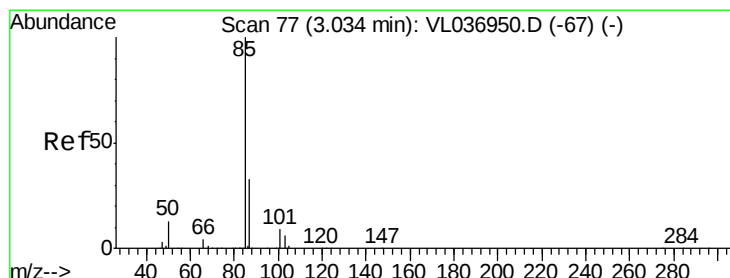
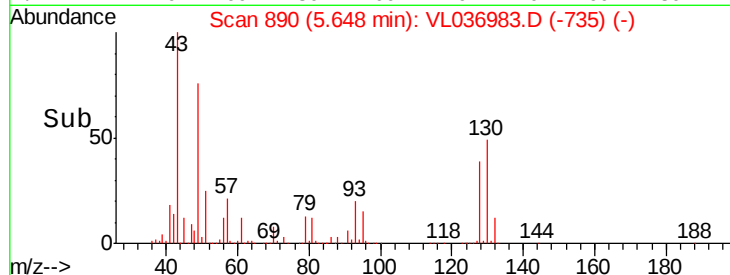
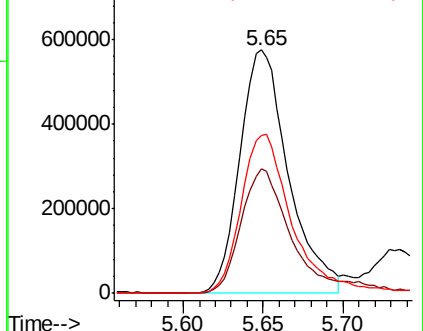
130 70.1 33.8 101.4



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: 9.797 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.00 min

Lab File: VL036983.D

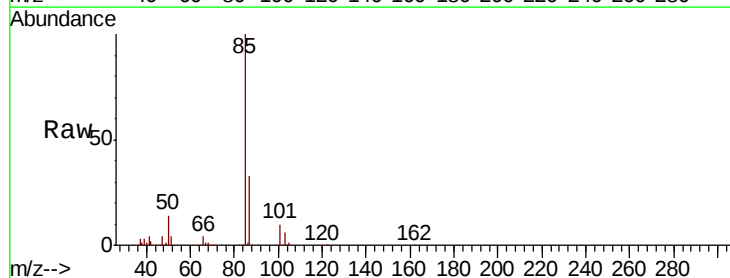
Acq: 19 May 2021 00:08

Tgt Ion: 85 Resp: 1987590

Ion Ratio Lower Upper

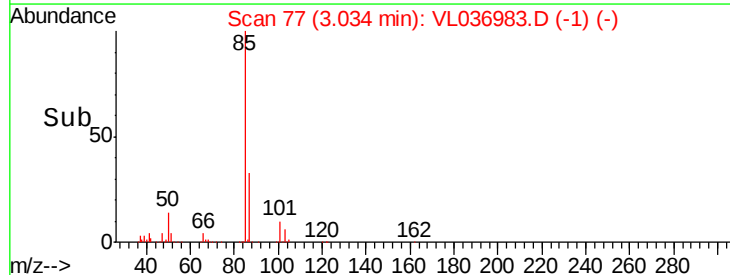
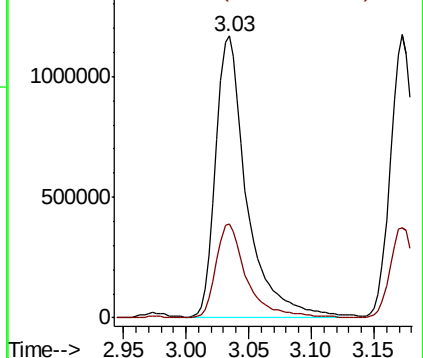
85 100

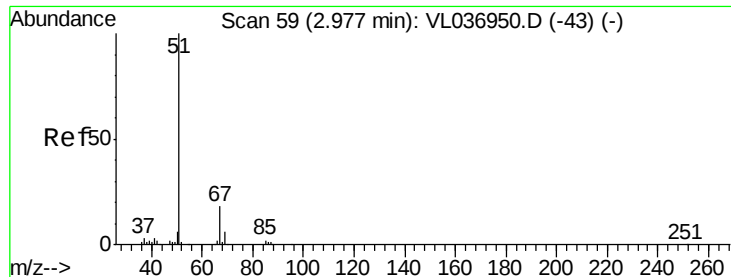
87 33.4 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.886 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

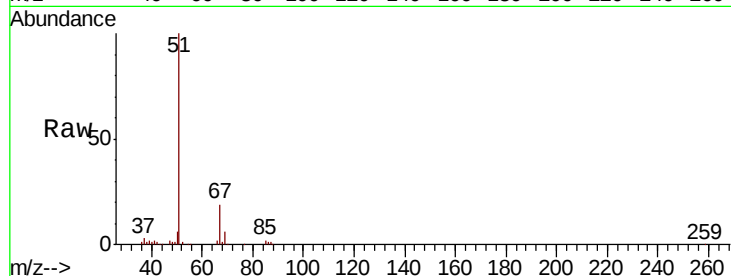
VSTDCCC010EC

Tot Ion: 51 Resp: 2166148

Ion Ratio Lower Upper

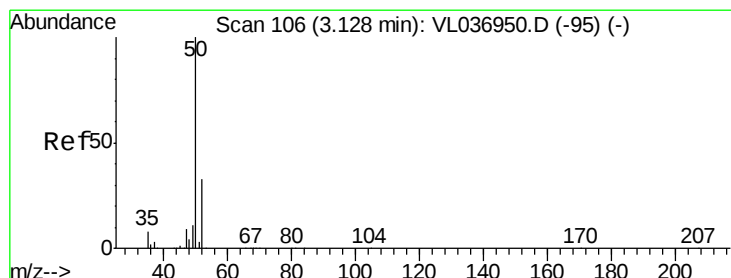
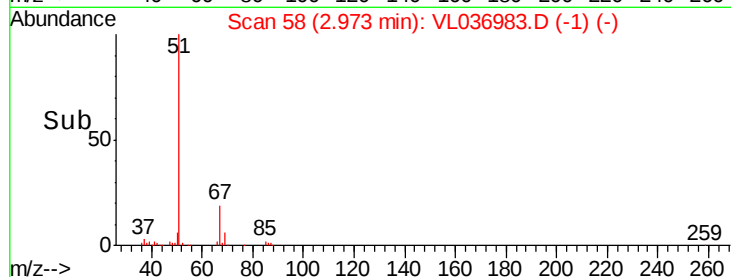
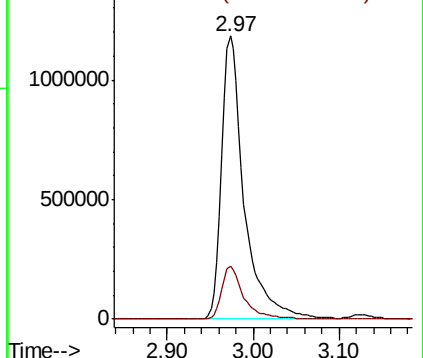
51 100

67 18.5 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.205 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL036983.D

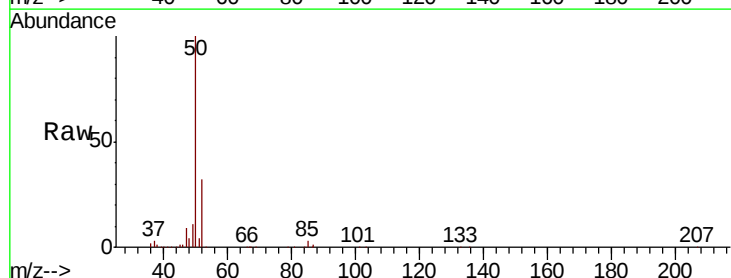
Acq: 19 May 2021 00:08

Tgt Ion: 50 Resp: 760868

Ion Ratio Lower Upper

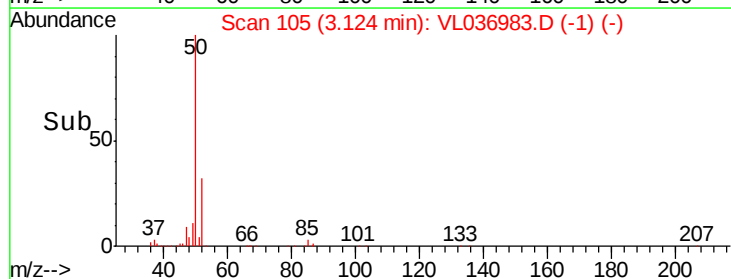
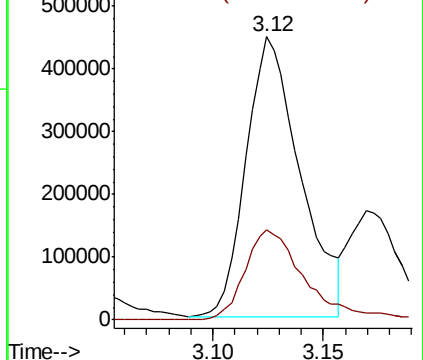
50 100

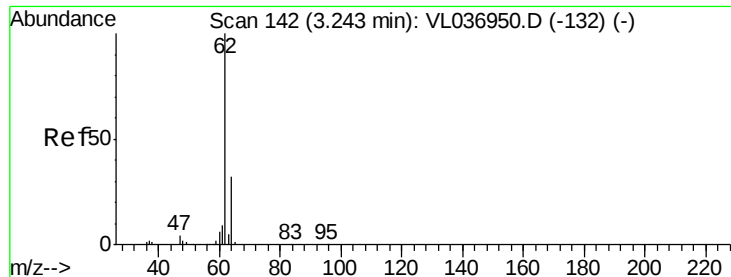
52 32.4 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.884 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

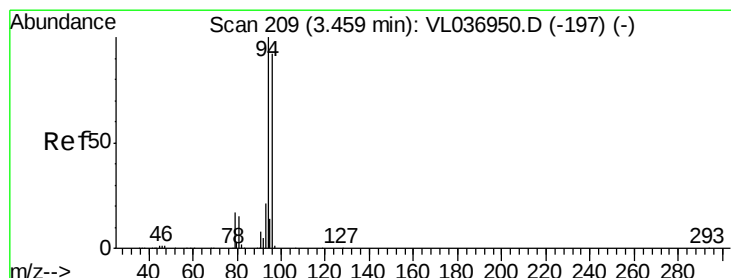
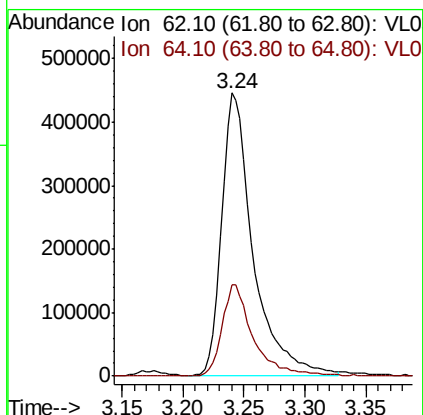
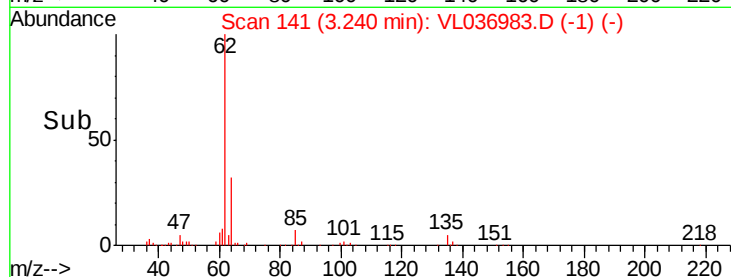
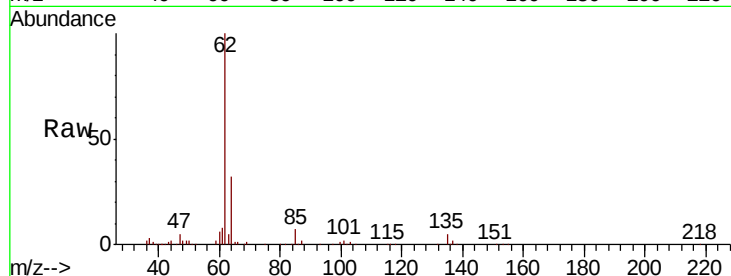
VSTDCCC010EC

Tot Ion: 62 Resp: 805499

Ion Ratio Lower Upper

62 100

64 32.2 25.9 38.9



#6

Bromomethane

Concen: 10.758 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL036983.D

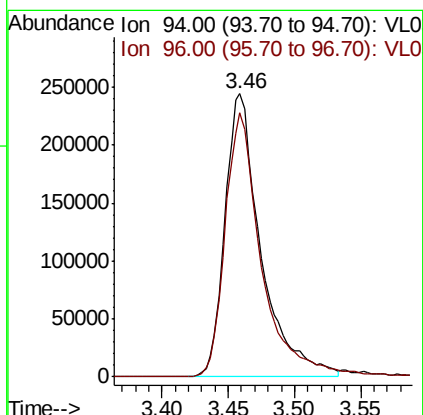
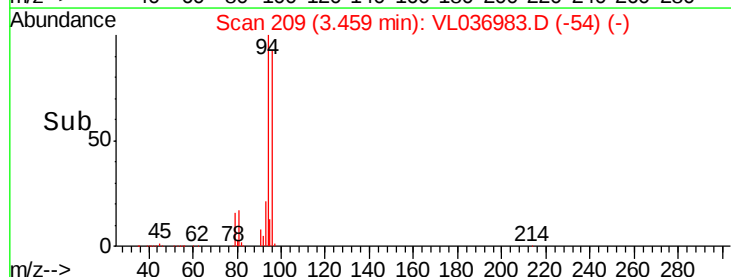
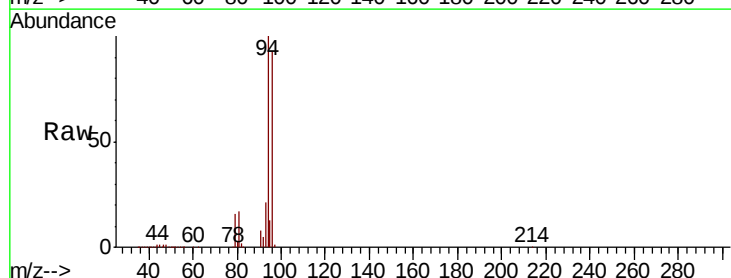
Acq: 19 May 2021 00:08

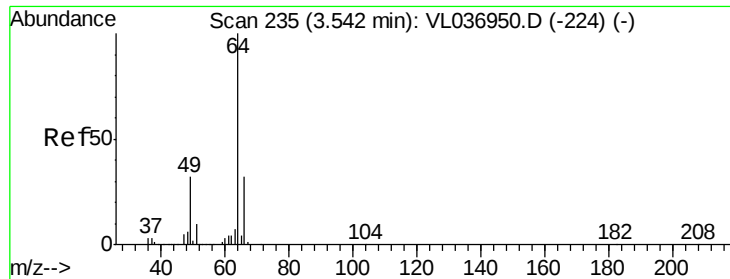
Tgt Ion: 94 Resp: 461988

Ion Ratio Lower Upper

94 100

96 93.4 74.0 111.0





#7

Chloroethane

Concen: 10.338 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

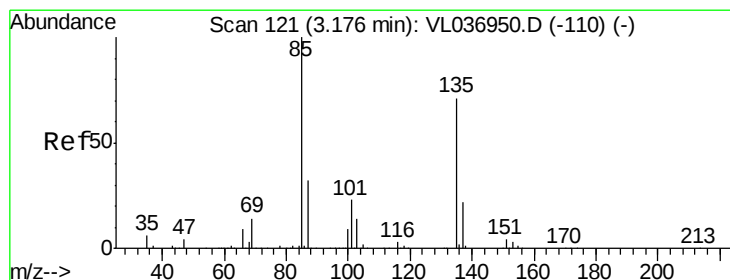
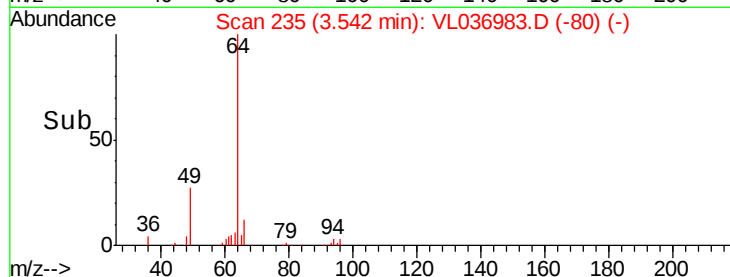
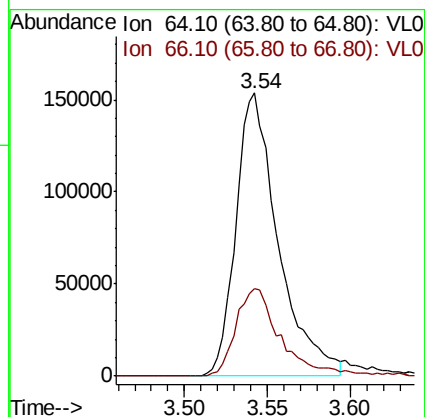
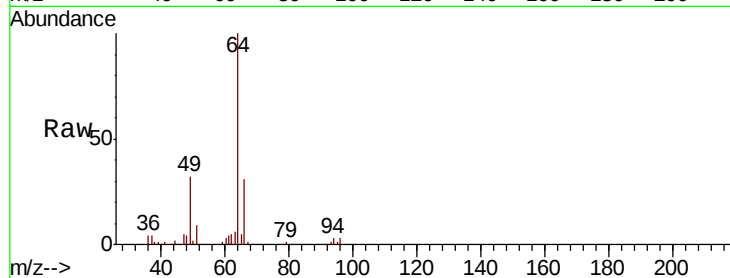
VSTDCCC010EC

Tot Ion: 64 Resp: 273553

Ion Ratio Lower Upper

64 100

66 30.9 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 9.936 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.00 min

Lab File: VL036983.D

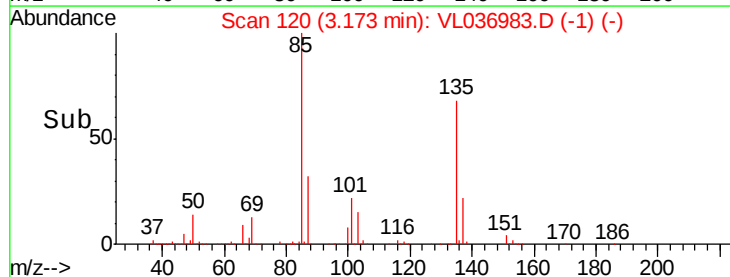
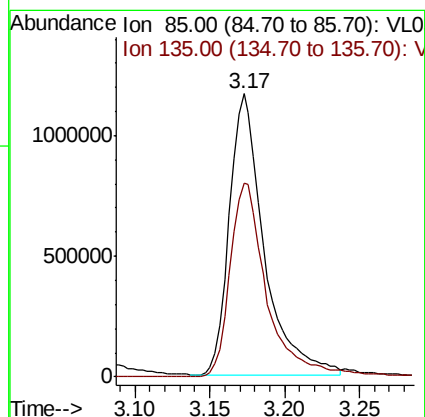
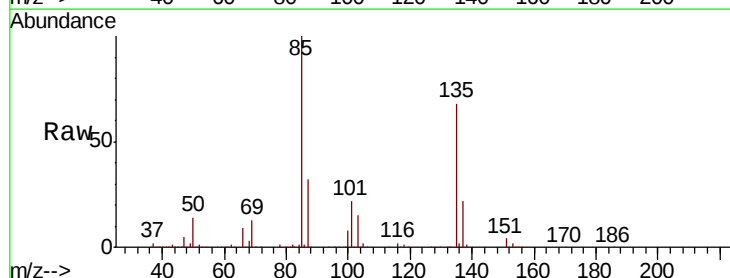
Acq: 19 May 2021 00:08

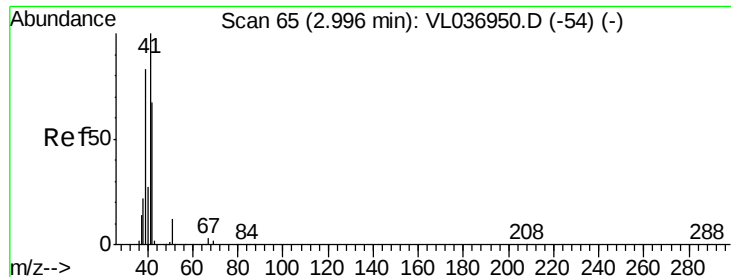
Tgt Ion: 85 Resp: 1892655

Ion Ratio Lower Upper

85 100

135 73.9 57.7 86.5





#9

Propene

Concen: 9.846 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

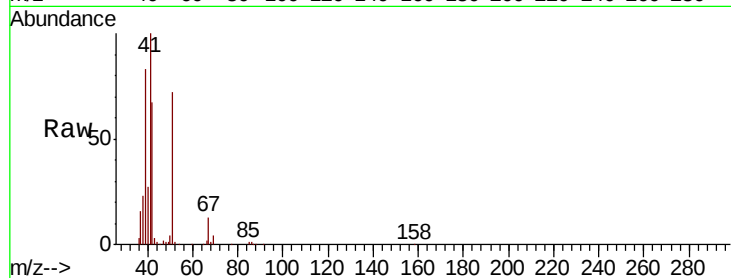
VSTDCCC010EC

Tot Ion: 41 Resp: 772450

Ion Ratio Lower Upper

41 100

42 68.4 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

400000

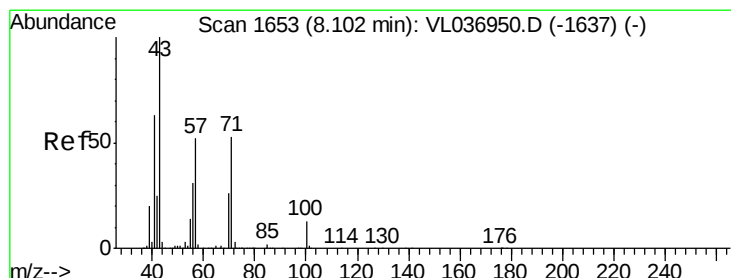
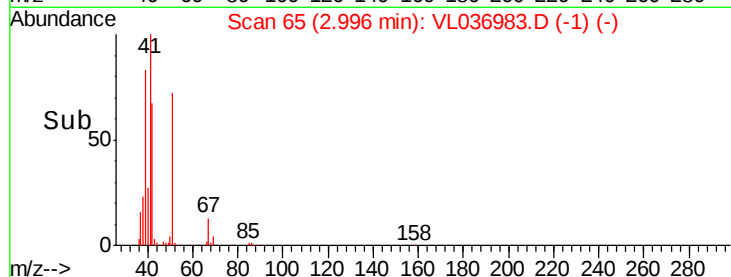
300000

200000

100000

0

Time-->



#10

Heptane

Concen: 9.362 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL036983.D

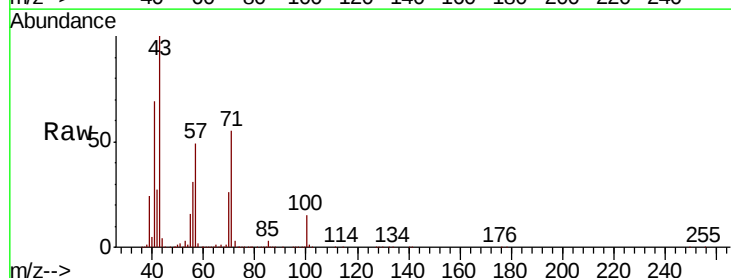
Acq: 19 May 2021 00:08

Tgt Ion: 43 Resp: 1830435

Ion Ratio Lower Upper

43 100

57 50.7 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.10

800000

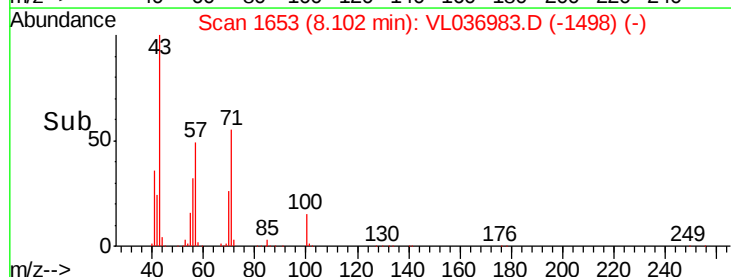
600000

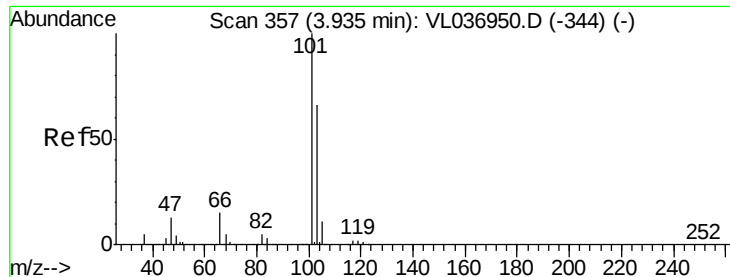
400000

200000

0

Time-->

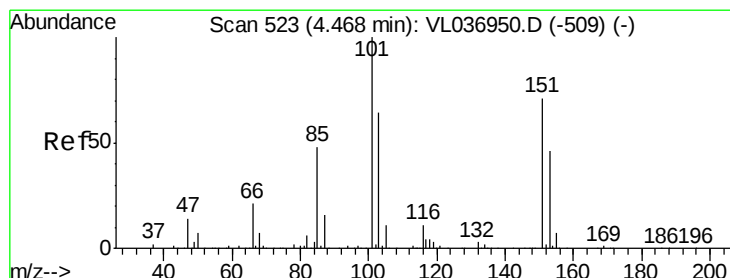
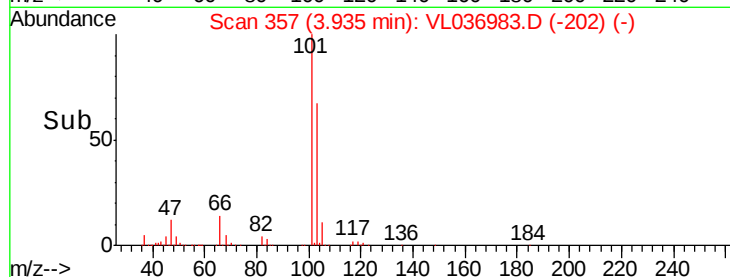
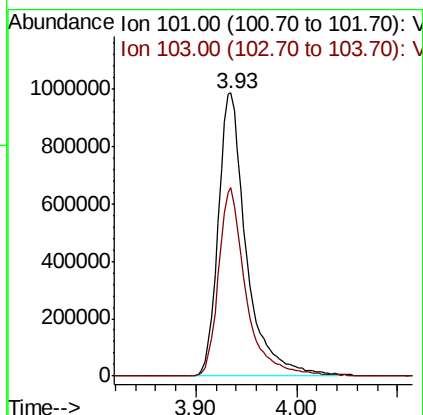
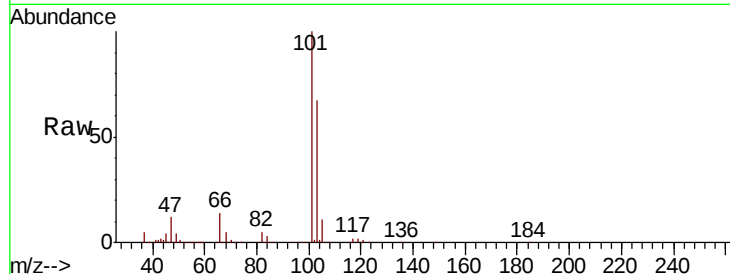




#11  
 Trichlorofluoromethane  
 Concen: 10.220 ppbv  
 RT: 3.93 min Scan# 357  
 Delta R.T. -0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

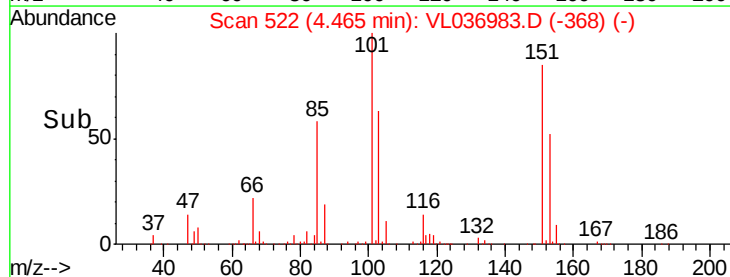
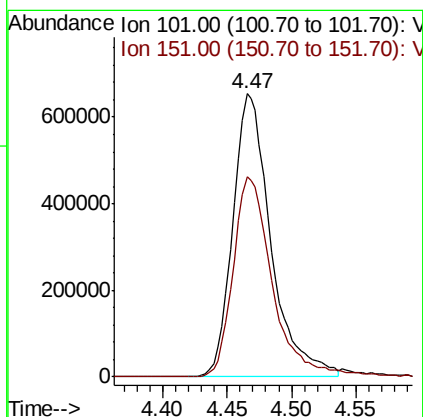
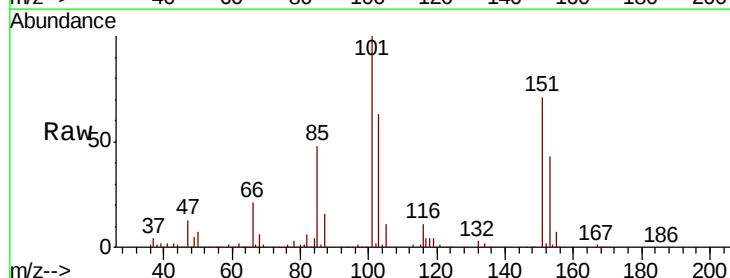
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

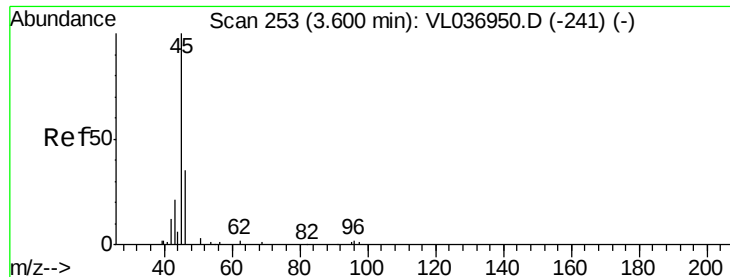
Tot Ion:101 Resp: 1919286  
 Ion Ratio Lower Upper  
 101 100  
 103 66.7 52.6 79.0



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.041 ppbv  
 RT: 4.47 min Scan# 522  
 Delta R.T. -0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

Tgt Ion:101 Resp: 1343101  
 Ion Ratio Lower Upper  
 101 100  
 151 73.5 57.7 86.5





#13

Ethanol

Concen: 5.653 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

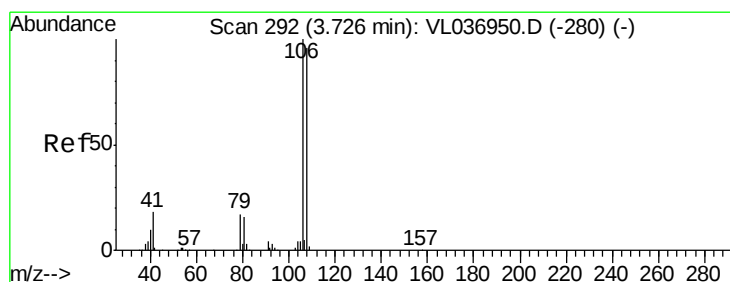
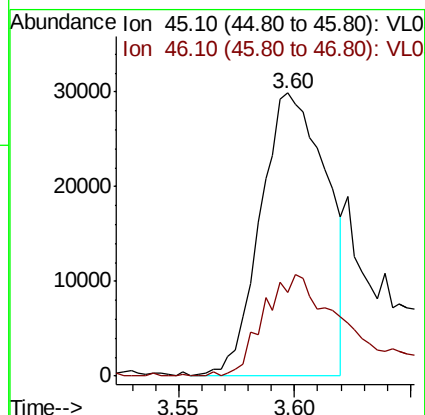
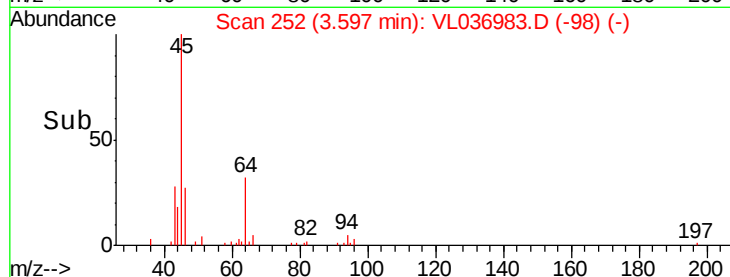
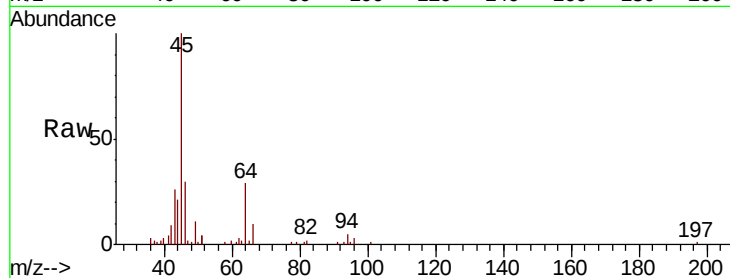
VSTDCCC010EC

Tot Ion: 45 Resp: 59171

Ion Ratio Lower Upper

45 100

46 53.1 16.3 65.3



#14

Bromoethene

Concen: 10.116 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

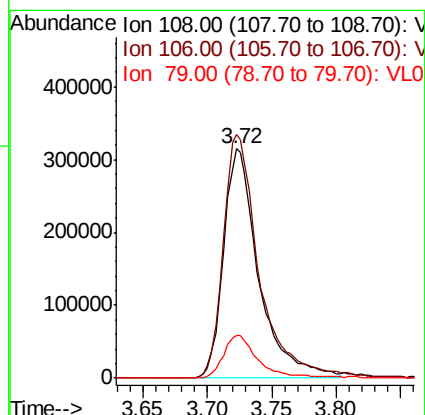
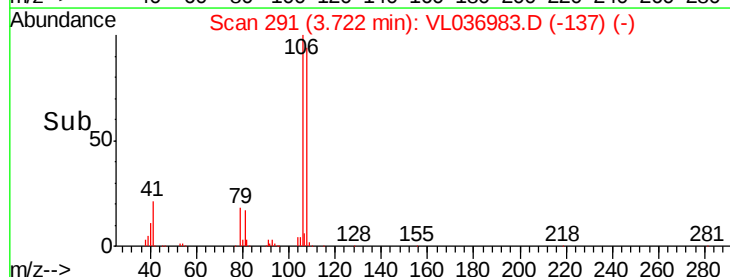
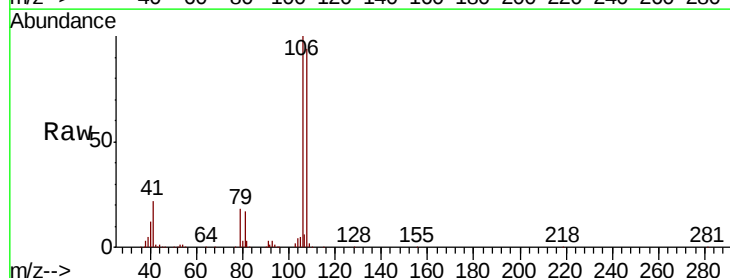
Tgt Ion: 108 Resp: 596028

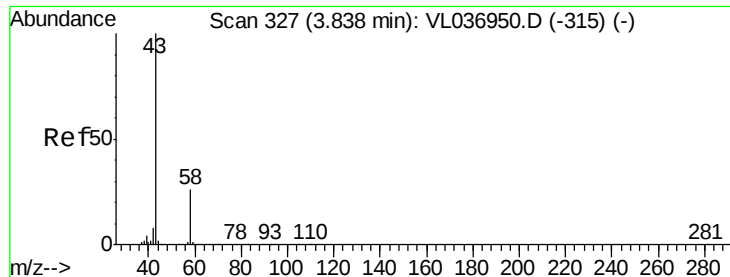
Ion Ratio Lower Upper

108 100

106 109.1 86.5 129.7

79 19.0 15.0 22.4





#15

Acetone

Concen: 8.271 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

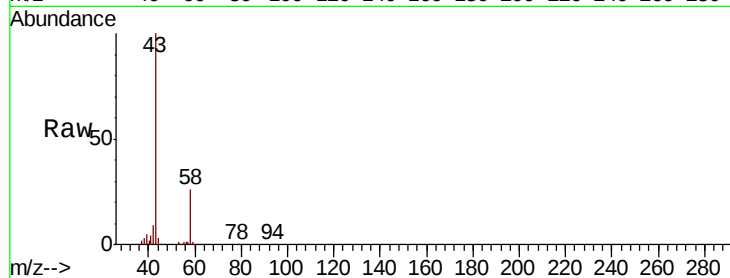
VSTDCCC010EC

Tot Ion: 43 Resp: 1013140

Ion Ratio Lower Upper

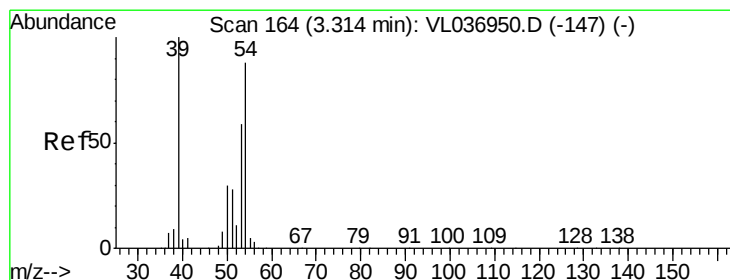
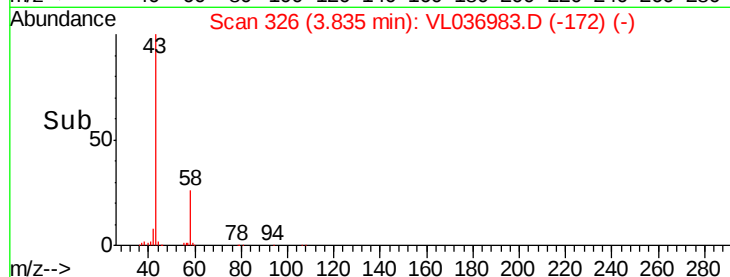
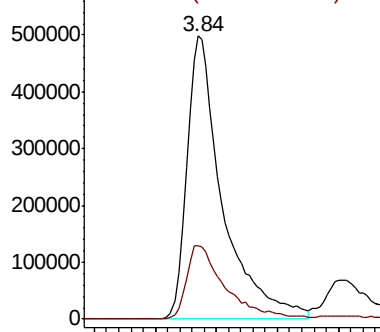
43 100

58 28.4 24.0 36.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.027 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.00 min

Lab File: VL036983.D

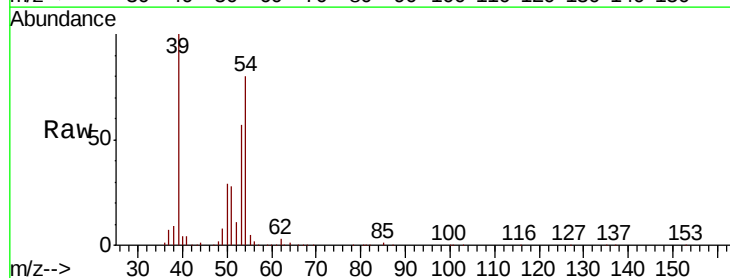
Acq: 19 May 2021 00:08

Tgt Ion: 39 Resp: 763092

Ion Ratio Lower Upper

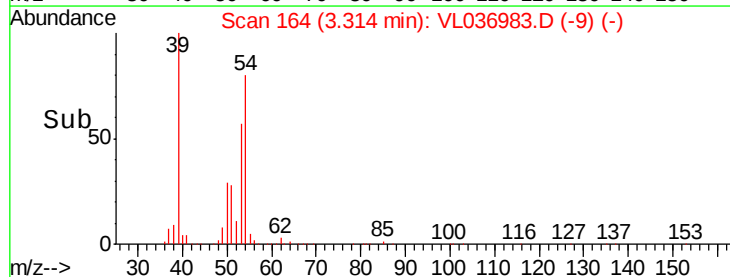
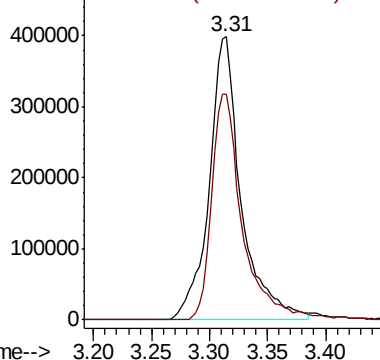
39 100

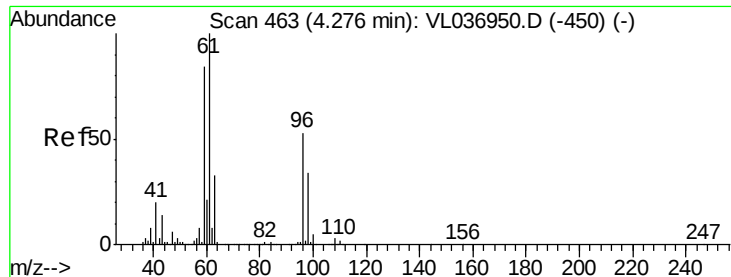
54 77.5 63.2 94.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 9.515 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

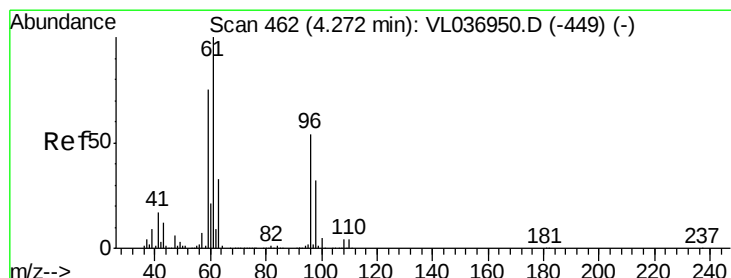
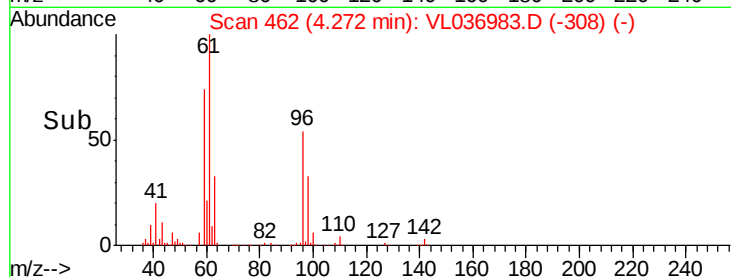
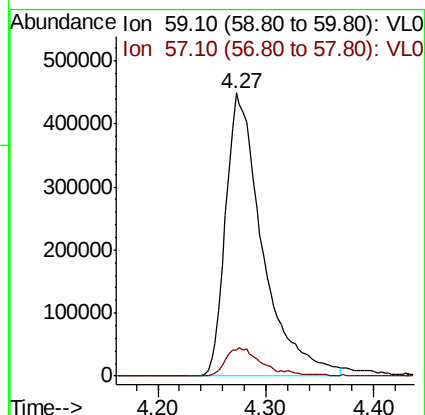
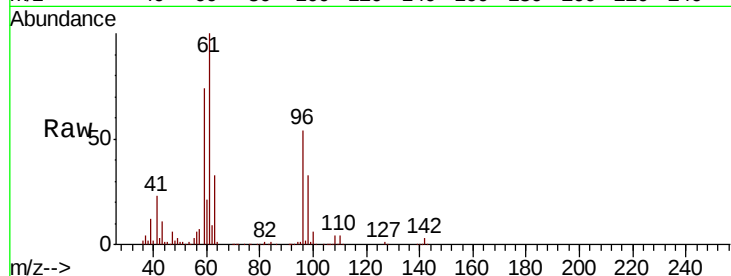
VSTDCCC010EC

Tot Ion: 59 Resp: 1067620

Ion Ratio Lower Upper

59 100

57 10.5 8.3 12.5



#18

1,1-Dichloroethene

Concen: 10.078 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

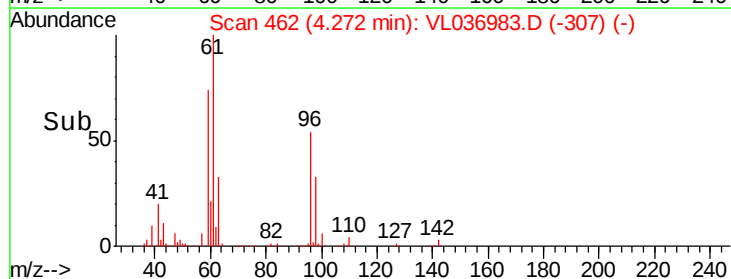
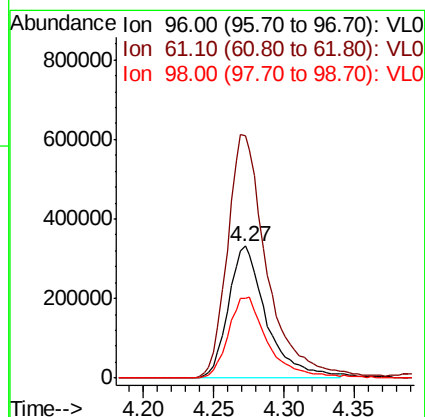
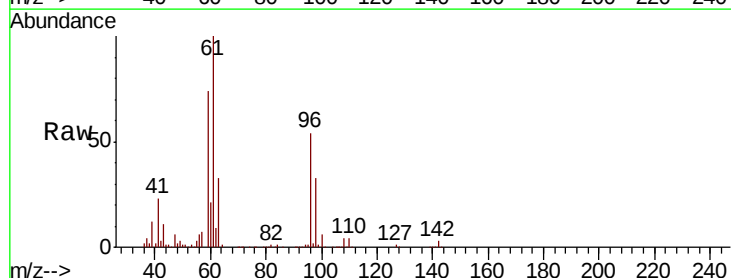
Tgt Ion: 96 Resp: 623397

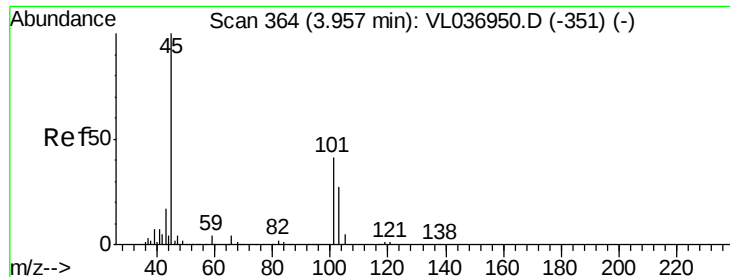
Ion Ratio Lower Upper

96 100

61 183.8 148.2 222.4

98 60.4 47.8 71.6





#19

Isopropyl Alcohol

Concen: 9.365 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

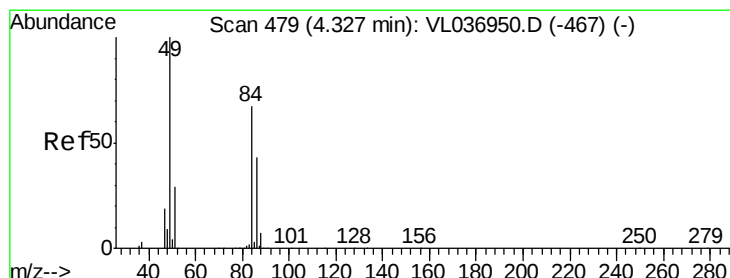
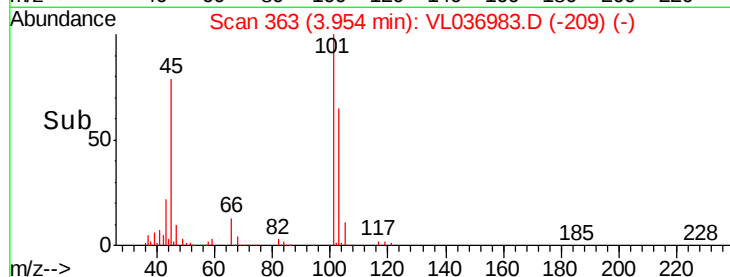
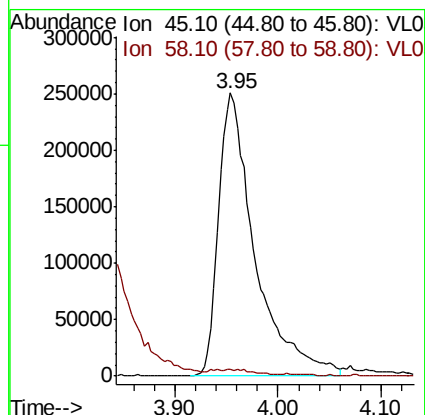
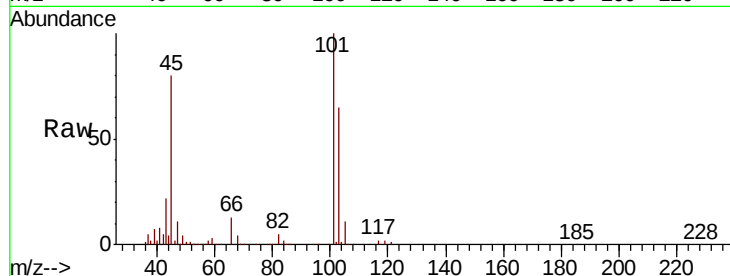
VSTDCCC010EC

Tot Ion: 45 Resp: 616684

Ion Ratio Lower Upper

45 100

58 2.9 37.2 55.8#



#20

Methylene Chloride

Concen: 7.889 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Tgt Ion: 84 Resp: 518018

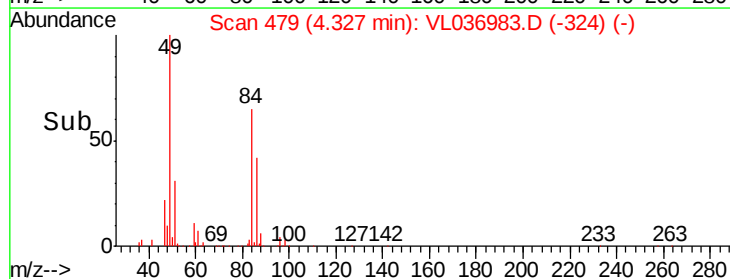
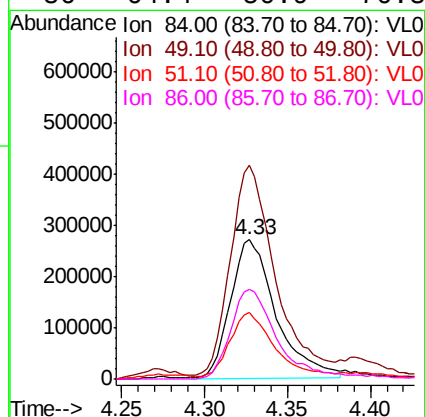
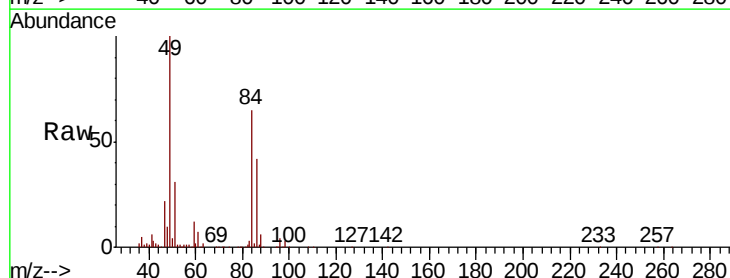
Ion Ratio Lower Upper

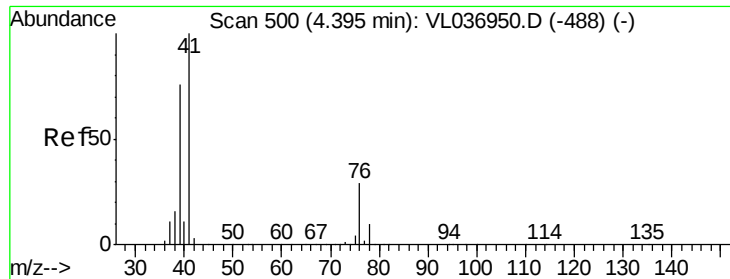
84 100

49 152.1 119.8 179.6

51 46.9 35.1 52.7

86 64.4 50.9 76.3





#21

Allvl Chloride

Concen: 10.024 ppbv

RT: 4.40 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

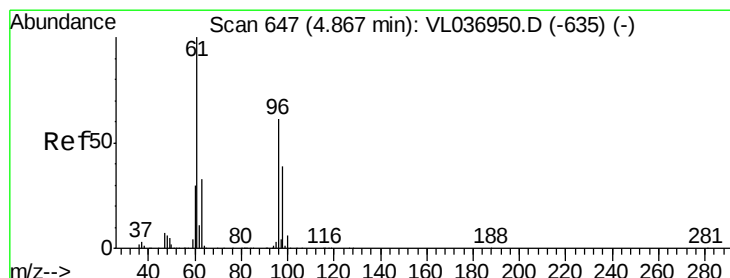
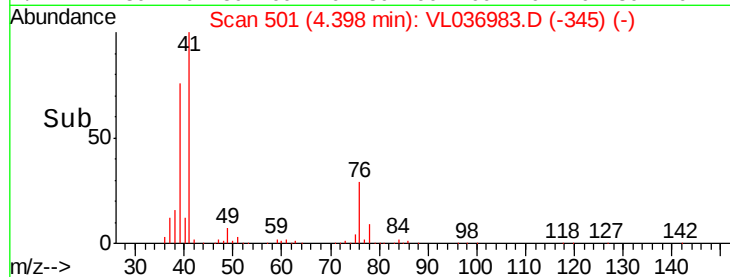
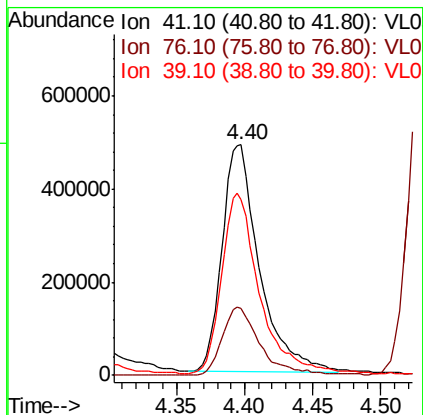
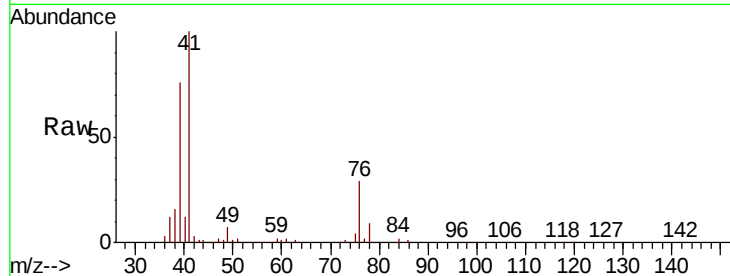
Tot Ion: 41 Resp: 926371

Ion Ratio Lower Upper

41 100

76 30.6 24.9 37.3

39 84.5 63.7 95.5



#22

trans-1,2-Dichloroethene

Concen: 10.341 ppbv

RT: 4.87 min Scan# 647

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

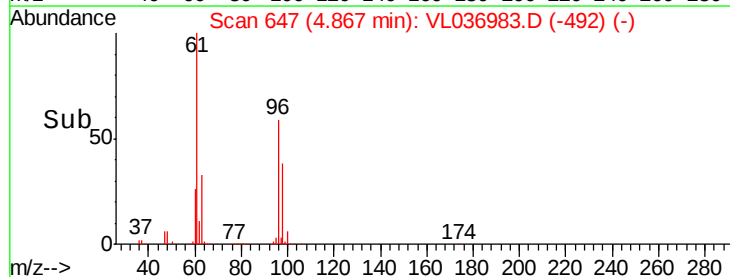
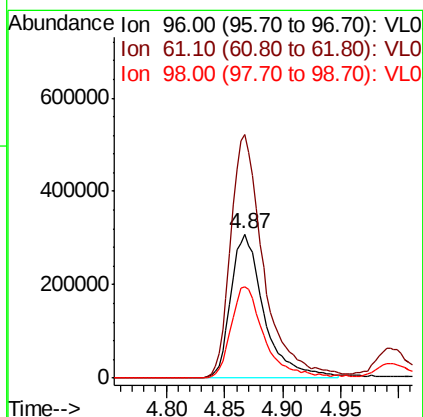
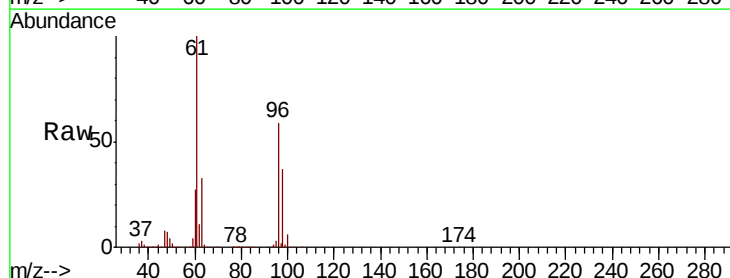
Tgt Ion: 96 Resp: 613012

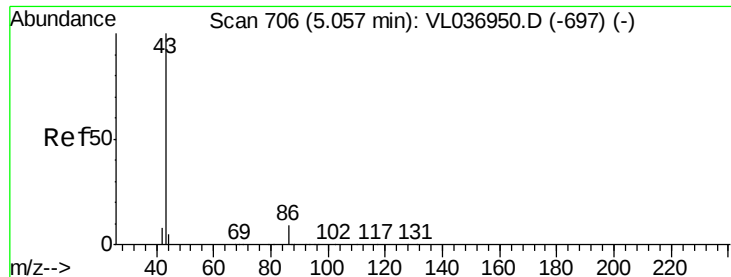
Ion Ratio Lower Upper

96 100

61 169.4 130.6 196.0

98 63.3 50.8 76.2





#23

Vinyl Acetate

Concen: 9.938 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1932294

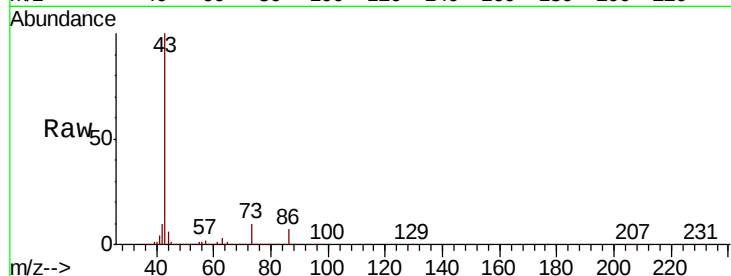
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.4   | 5.8   | 8.8   |
| 42  | 9.7   | 7.4   | 11.2  |
| 44  | 5.0   | 3.3   | 4.9#  |

43 100

86 7.4 5.8 8.8

42 9.7 7.4 11.2

44 5.0 3.3 4.9#

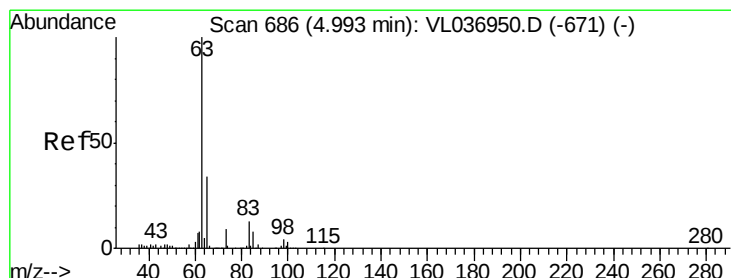
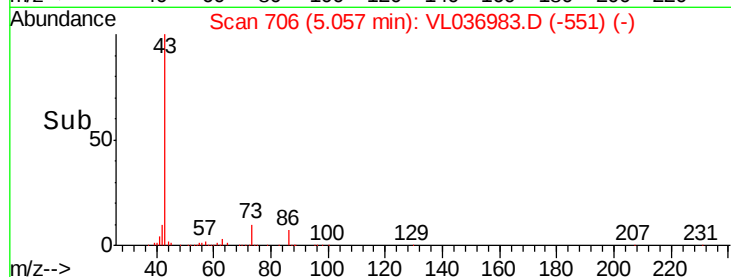
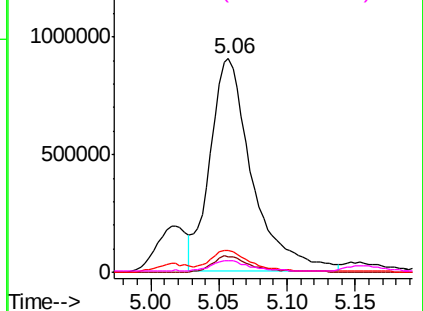


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 10.302 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

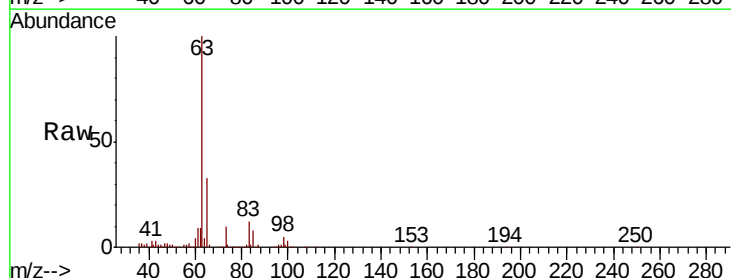
Tgt Ion: 63 Resp: 1441867

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.5   | 2.3   | 6.9   |
| 100 | 2.8   | 1.4   | 4.0   |

63 100

98 4.5 2.3 6.9

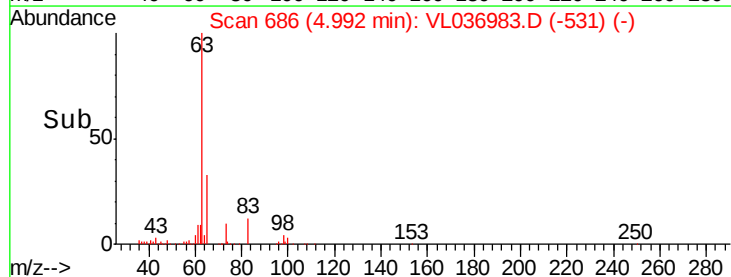
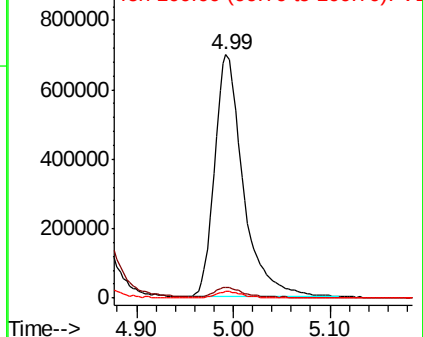
100 2.8 1.4 4.0

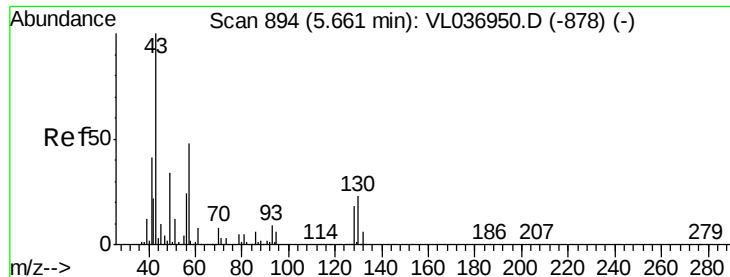


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

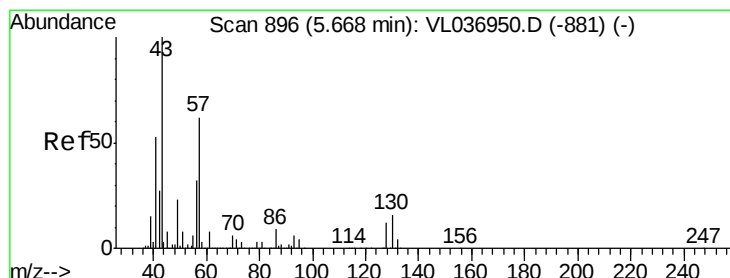
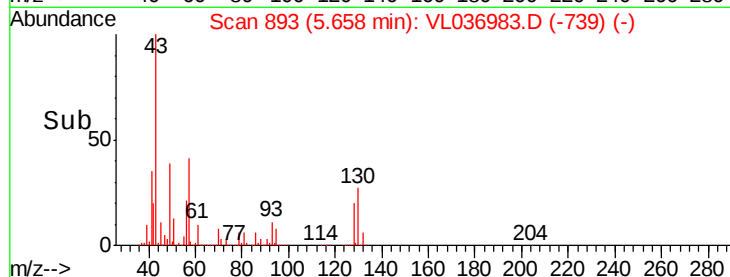
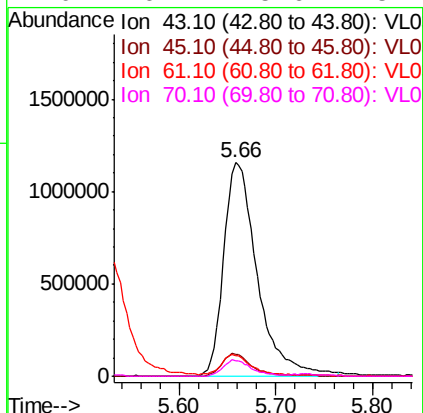
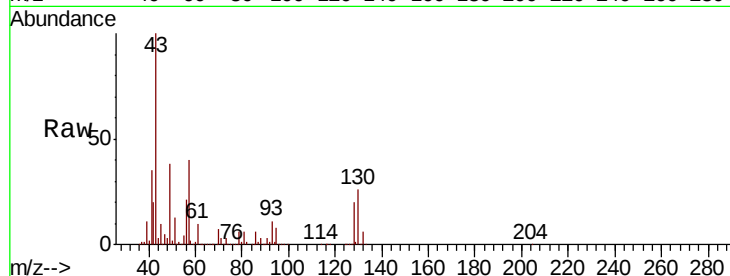




#25  
Ethyl Acetate  
Concen: 9.467 ppbv  
RT: 5.66 min Scan# 893  
Delta R.T. -0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

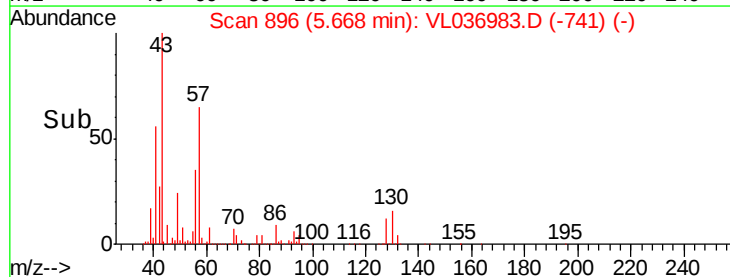
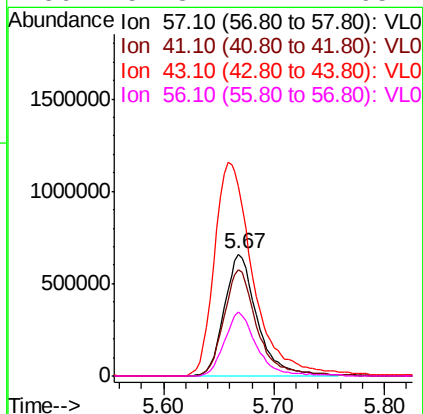
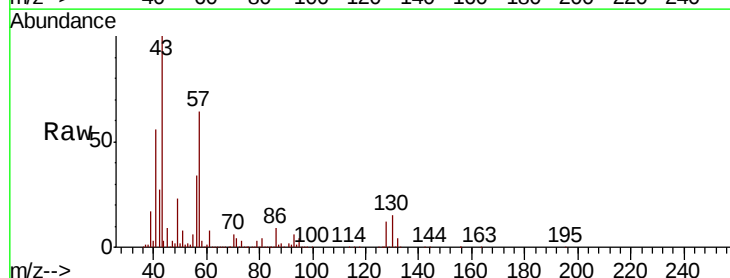
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

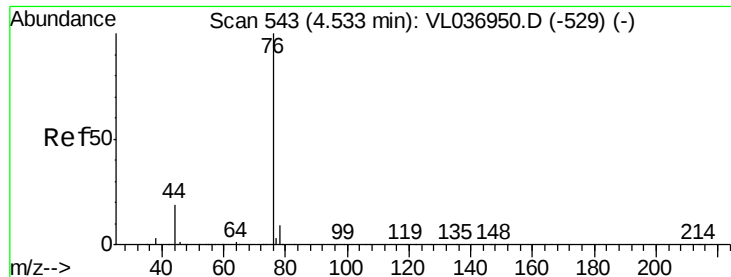
| Tot Ion: | 43    | Resp: | 2786590 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 45       | 9.8   | 7.8   | 11.8    |
| 61       | 9.9   | 7.8   | 11.8    |
| 70       | 6.7   | 5.6   | 8.4     |



#26  
Hexane  
Concen: 9.032 ppbv  
RT: 5.67 min Scan# 896  
Delta R.T. -0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

| Tgt Ion: | 57    | Resp: | 1358132 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 57       | 100   |       |         |
| 41       | 89.0  | 70.5  | 105.7   |
| 43       | 206.9 | 165.8 | 248.8   |
| 56       | 52.3  | 42.2  | 63.4    |





#27

Carbon Disulfide

Concen: 9.614 ppbv

RT: 4.53 min Scan# 543

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

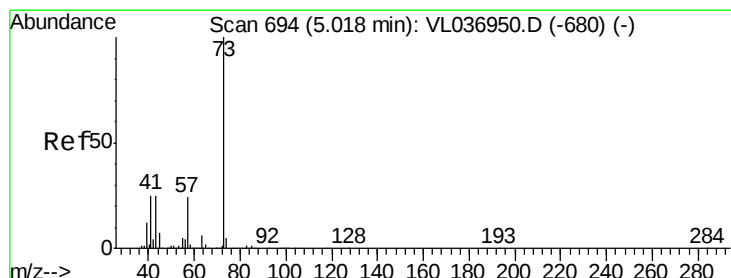
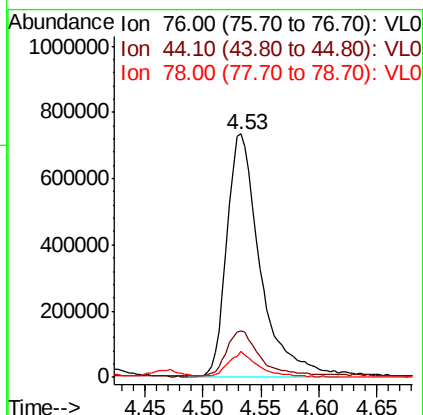
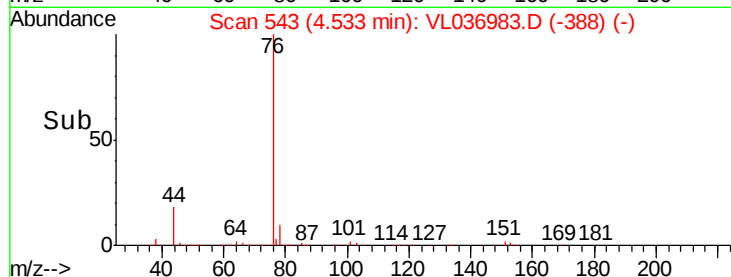
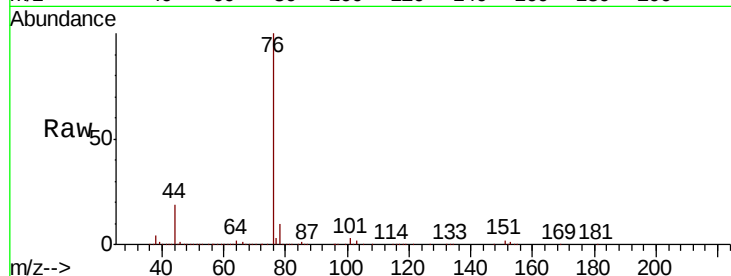
Tot Ion: 76 Resp: 1457019

Ion Ratio Lower Upper

76 100

44 18.7 15.5 23.3

78 9.7 7.8 11.6



#28

Methyl tert-Butyl Ether

Concen: 9.438 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.00 min

Lab File: VL036983.D

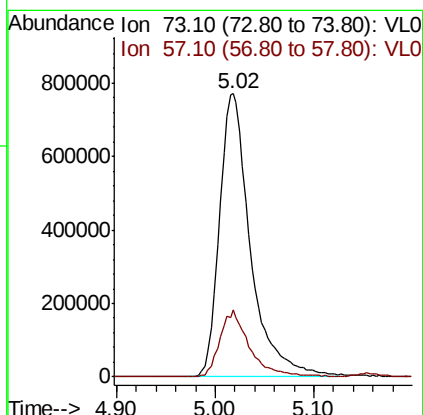
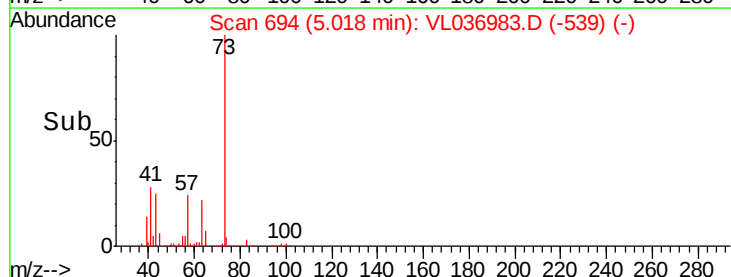
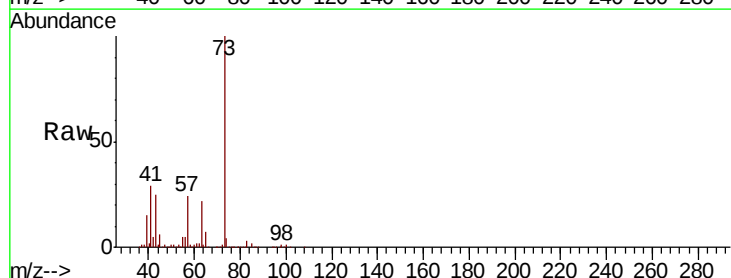
Acq: 19 May 2021 00:08

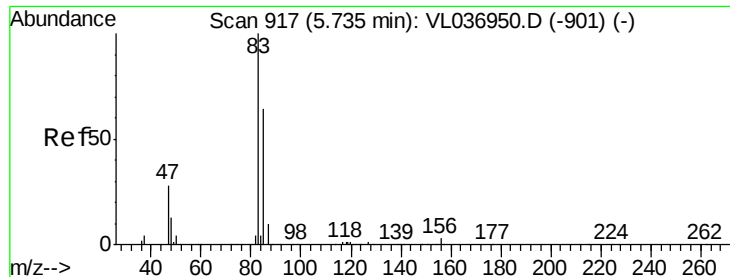
Tgt Ion: 73 Resp: 1701203

Ion Ratio Lower Upper

73 100

57 22.6 18.3 27.5





#29

Chloroform

Concen: 9.698 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

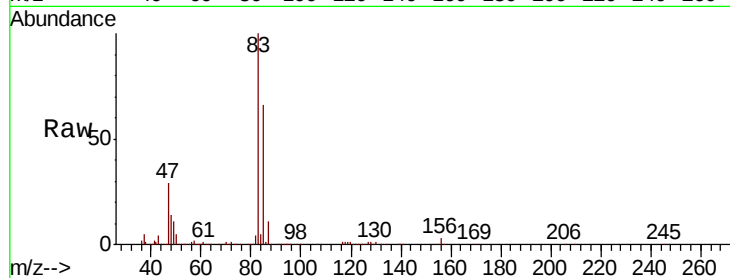
VSTDCCC010EC

Tot Ion: 83 Resp: 2060397

Ion Ratio Lower Upper

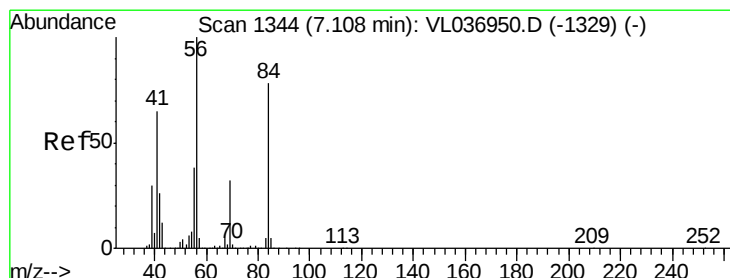
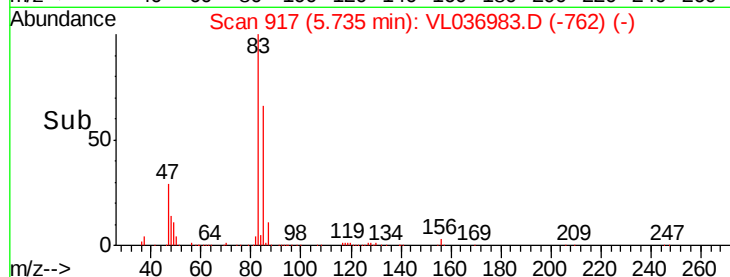
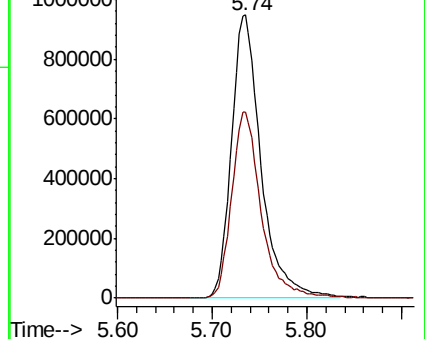
83 100

85 65.4 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 9.323 ppbv

RT: 7.11 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

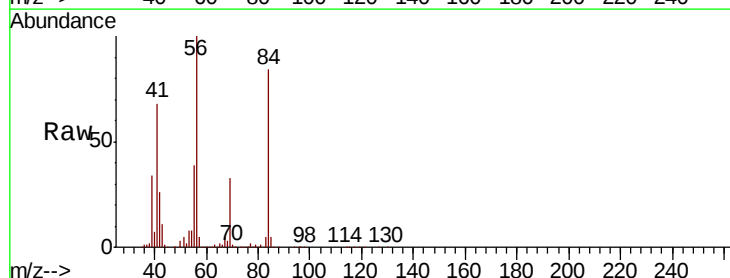
Tgt Ion: 84 Resp: 1191321

Ion Ratio Lower Upper

84 100

56 134.9 107.9 161.9

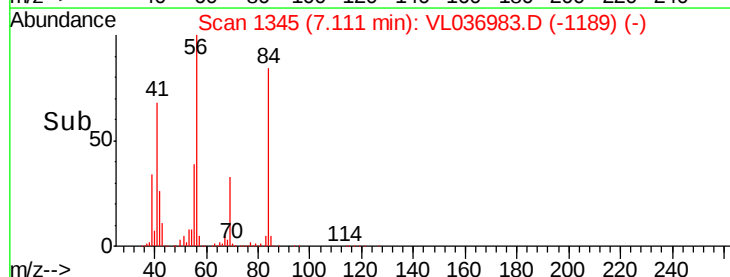
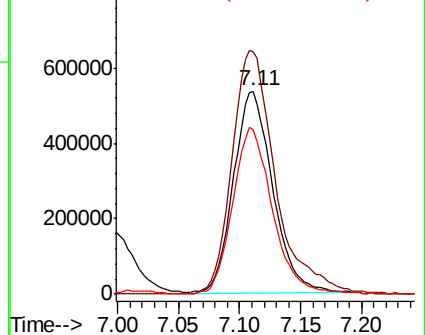
41 84.2 65.5 98.3

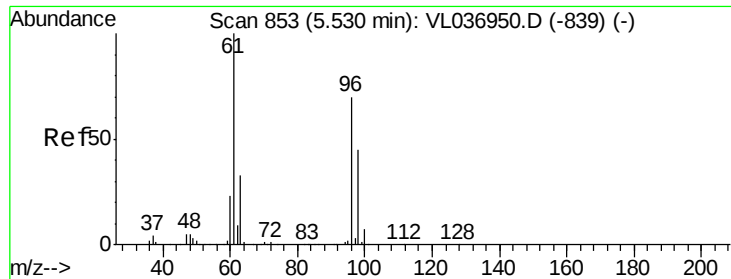


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 9.757 ppbv

RT: 5.53 min Scan# 853

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

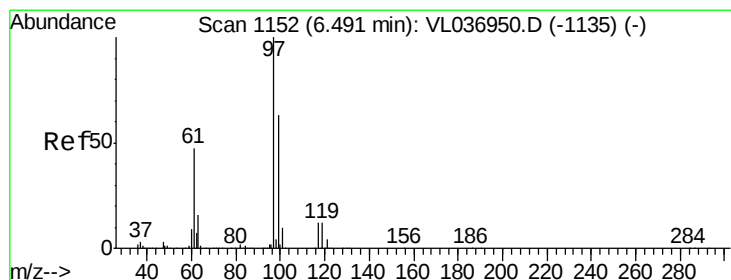
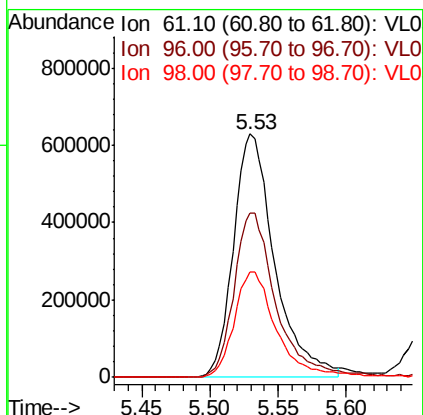
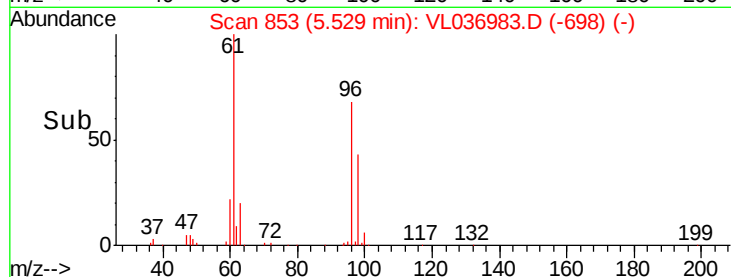
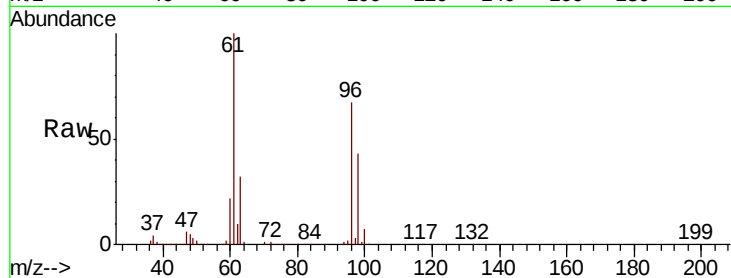
Tot Ion: 61 Resp: 1315489

Ion Ratio Lower Upper

61 100

96 67.2 55.9 83.9

98 43.1 35.6 53.4



#32

1,1,1-Trichloroethane

Concen: 9.153 ppbv

RT: 6.49 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

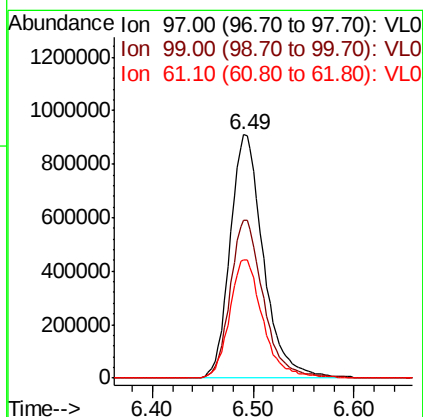
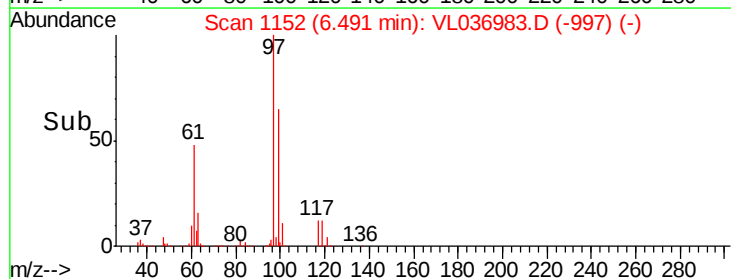
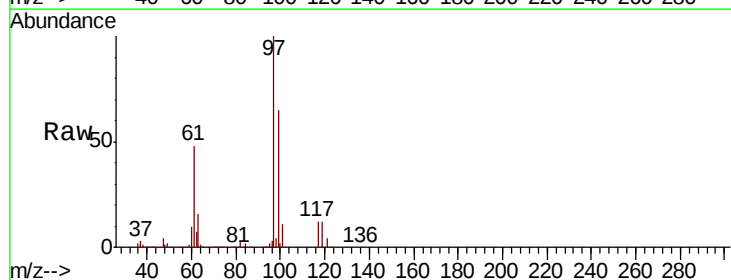
Tgt Ion: 97 Resp: 2088089

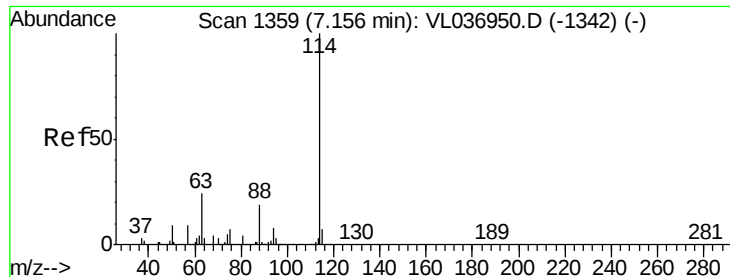
Ion Ratio Lower Upper

97 100

99 65.1 51.9 77.9

61 48.6 37.6 56.4

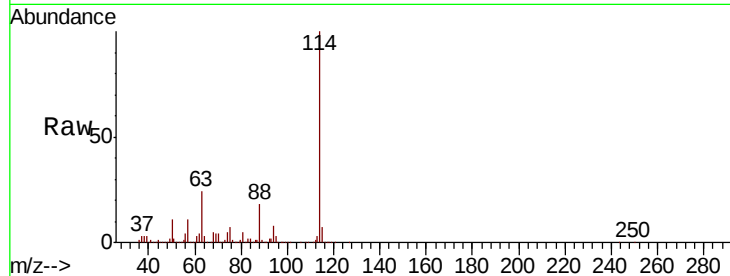




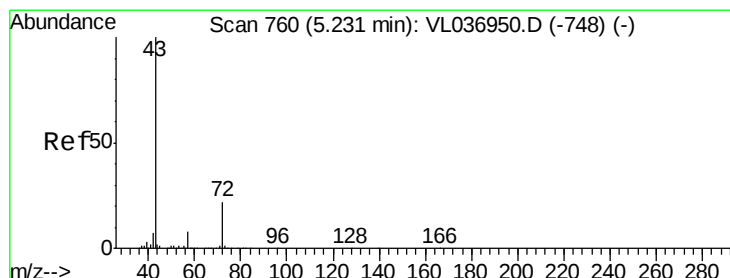
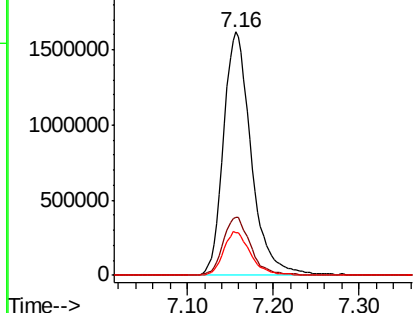
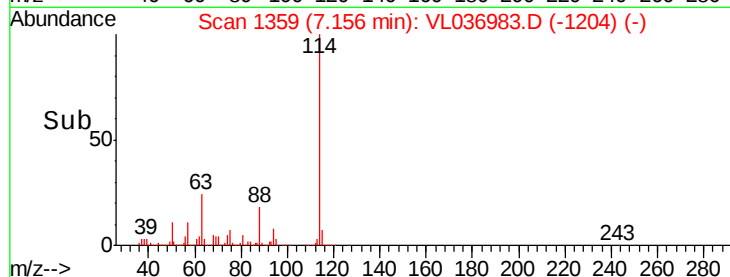
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1359  
 Delta R.T. -0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:114 Resp: 3637453  
 Ion Ratio Lower Upper  
 114 100  
 63 24.2 19.6 29.4  
 88 17.6 14.6 21.8

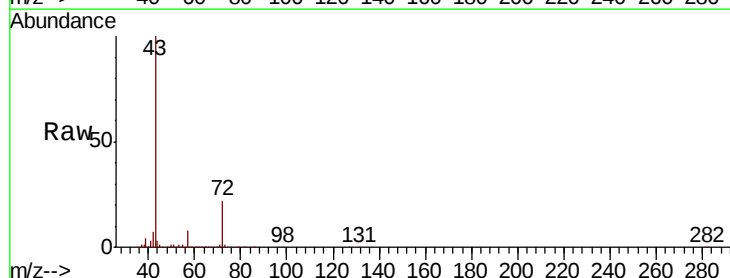


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

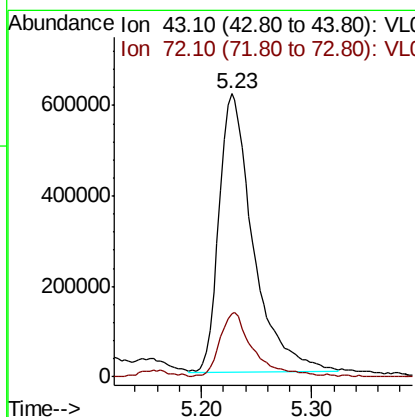
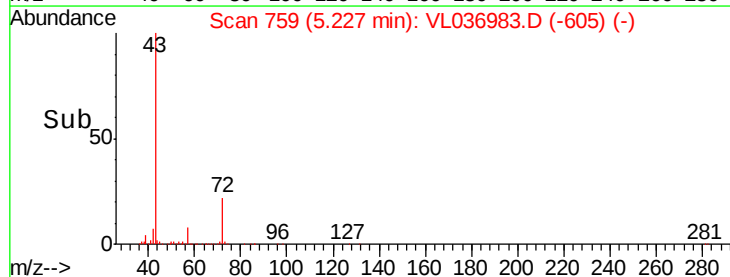


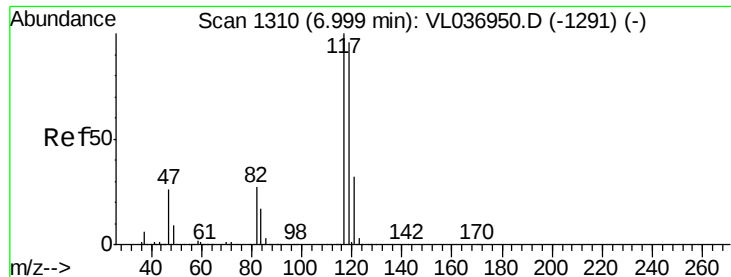
#34  
 2-Butanone  
 Concen: 9.963 ppbv  
 RT: 5.23 min Scan# 759  
 Delta R.T. -0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

Tgt Ion: 43 Resp: 1319584  
 Ion Ratio Lower Upper  
 43 100  
 72 23.4 19.0 28.4



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.944 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

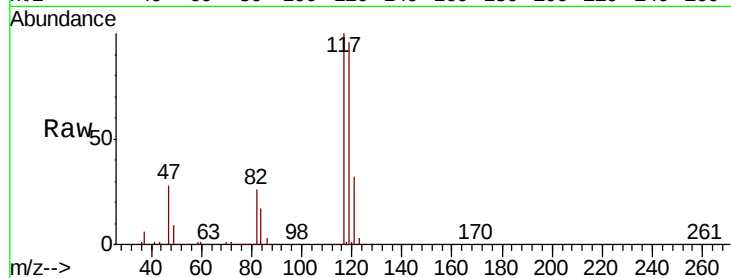
Tot Ion:117 Resp: 2161645

Ion Ratio Lower Upper

117 100

119 95.8 76.6 114.8

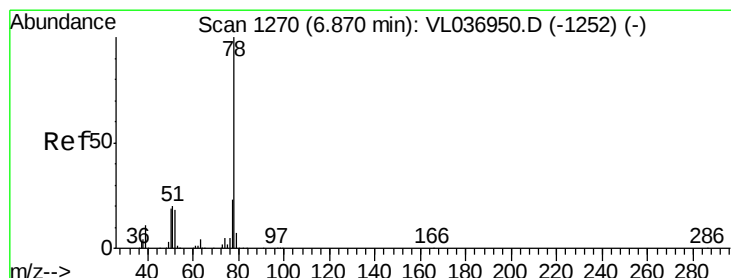
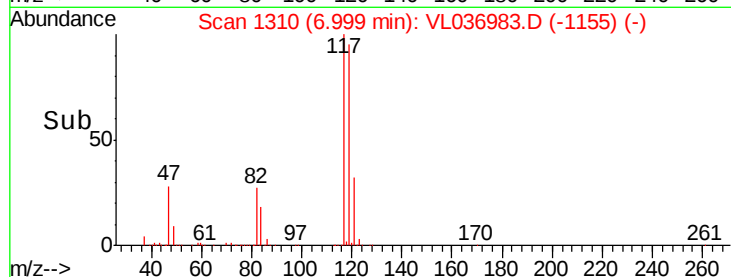
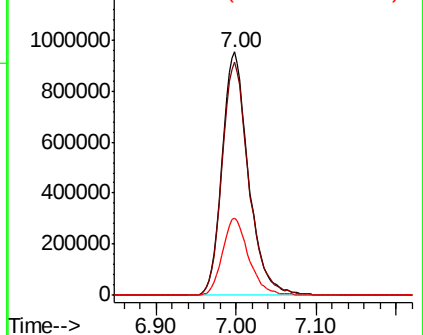
121 31.7 25.8 38.6



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



#36

Benzene

Concen: 9.061 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

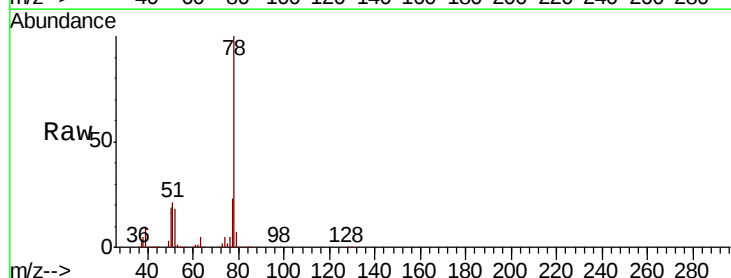
Tgt Ion: 78 Resp: 2838796

Ion Ratio Lower Upper

78 100

77 23.2 18.6 28.0

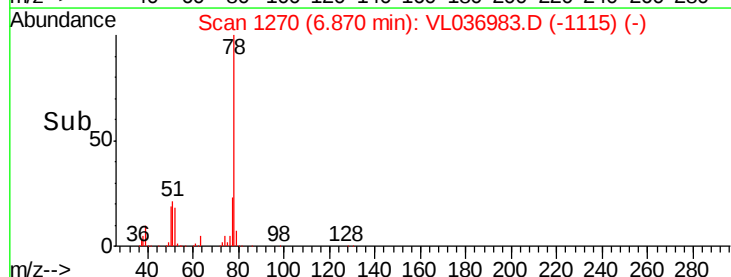
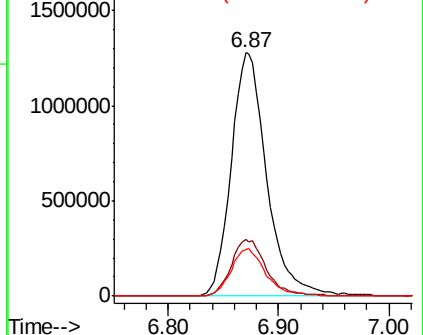
50 19.0 15.0 22.4

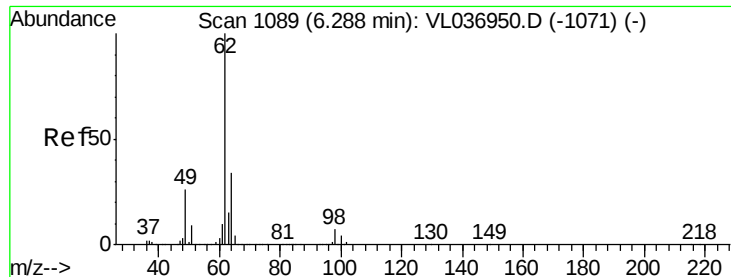


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.855 ppbv

RT: 6.29 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

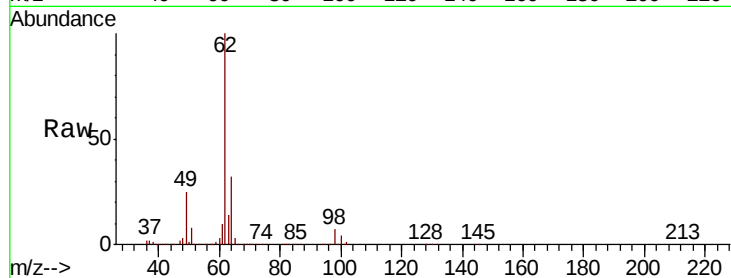
VSTDCCC010EC

Tot Ion: 62 Resp: 1530785

Ion Ratio Lower Upper

62 100

98 7.0 5.5 8.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.29

800000

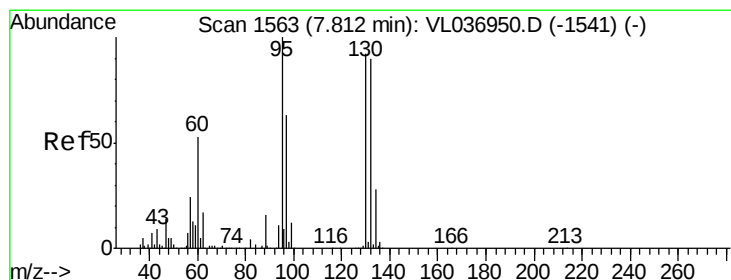
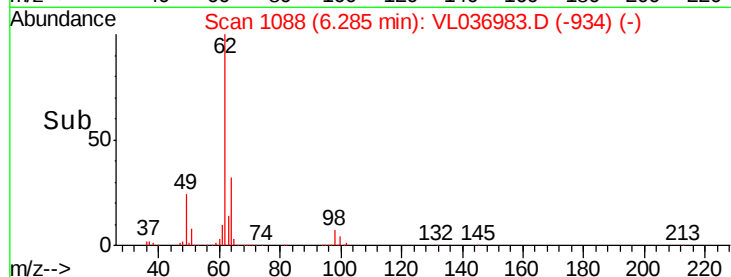
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 8.456 ppbv

RT: 7.82 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Tgt Ion:130 Resp: 1133380

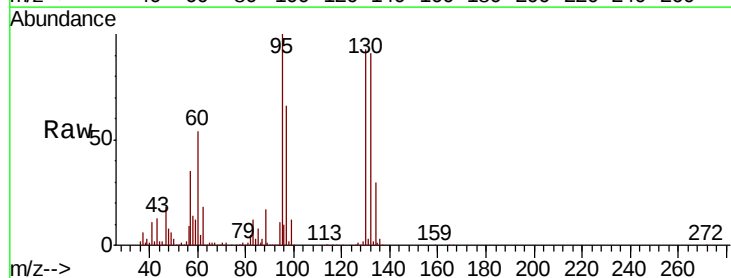
Ion Ratio Lower Upper

130 100

95 107.6 86.9 130.3

132 98.4 78.4 117.6

97 71.3 55.0 82.6



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

800000

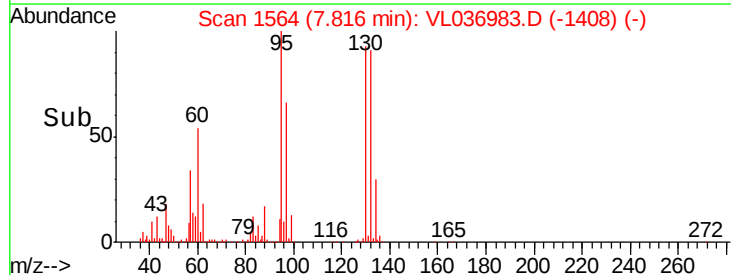
600000

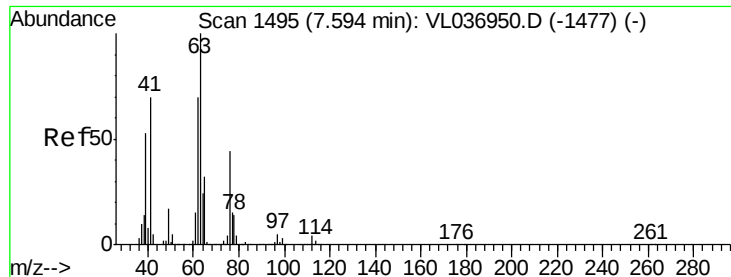
400000

200000

0

Time-->



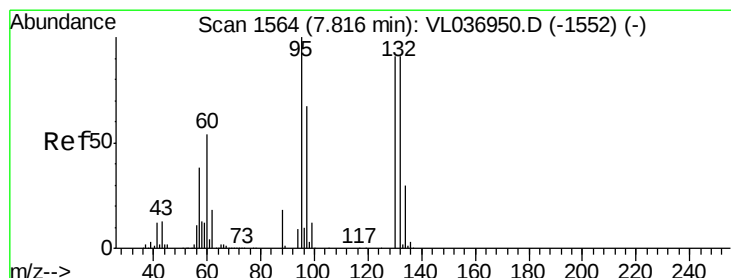
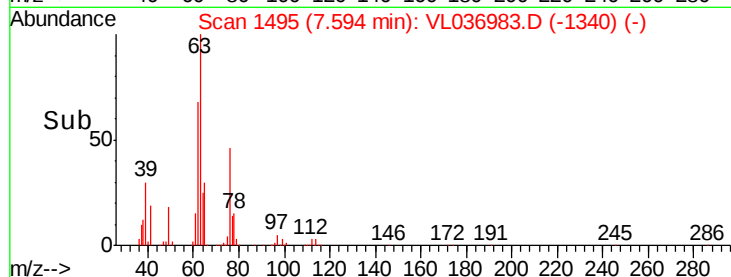
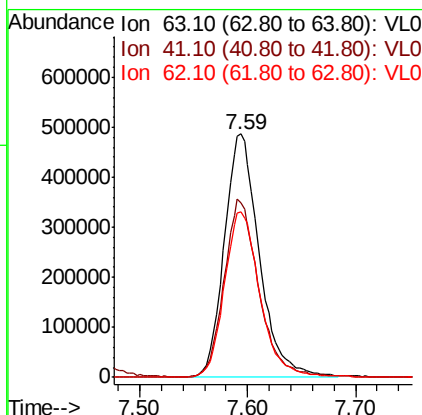
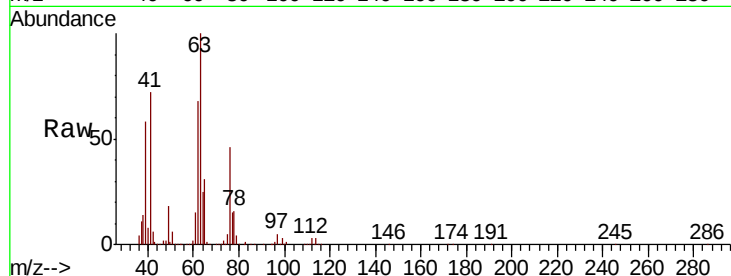


#39  
 1,2-Dichloropropane  
 Concen: 9.086 ppbv  
 RT: 7.59 min Scan# 1495  
 Delta R.T. -0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion: 63 Resp: 1096603  

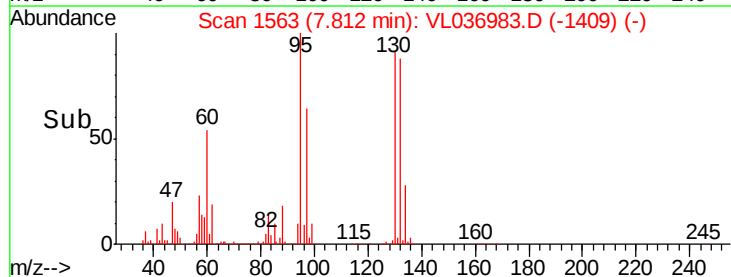
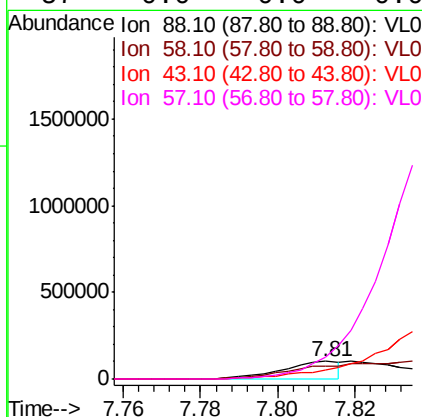
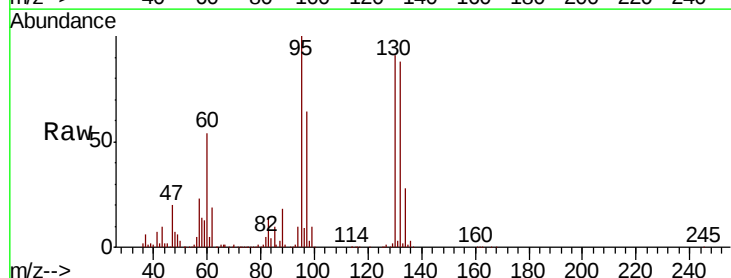
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 71.7  | 55.7  | 83.5  |
| 62  | 67.9  | 56.2  | 84.4  |

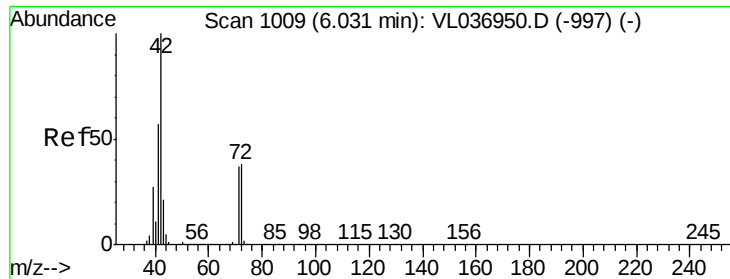


#40  
 1,4-Dioxane  
 Concen: 3.734 ppbv  
 RT: 7.81 min Scan# 1563  
 Delta R.T. -0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

Tgt Ion: 88 Resp: 106426  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 58  | 0.0   | 0.0   | 0.0   |
| 43  | 0.0   | 0.0   | 0.0   |
| 57  | 0.0   | 0.0   | 0.0   |





#41

Tetrahydrofuran

Concen: 9.013 ppbv

RT: 6.03 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

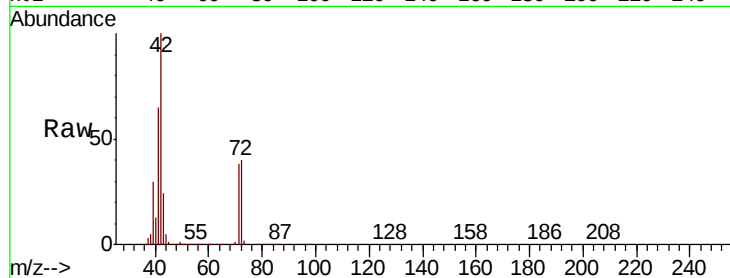
Tot Ion: 42 Resp: 679879

Ion Ratio Lower Upper

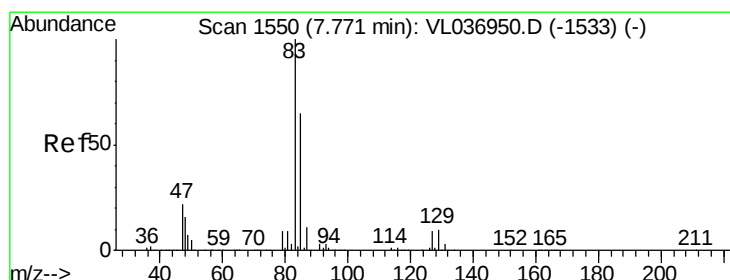
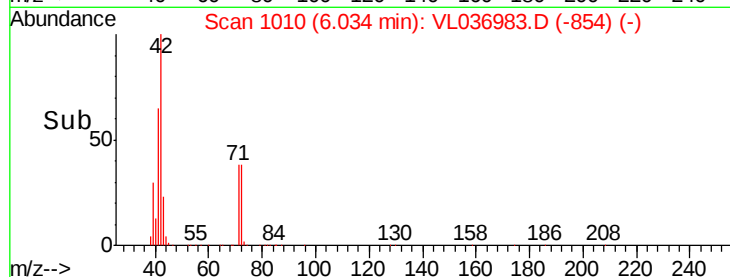
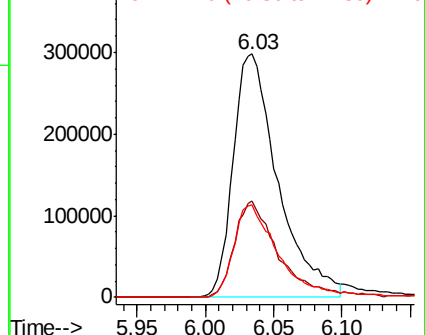
42 100

72 40.1 31.4 47.2

71 38.7 30.4 45.6



Abundance Ion 42.10 (41.80 to 42.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0  
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.461 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

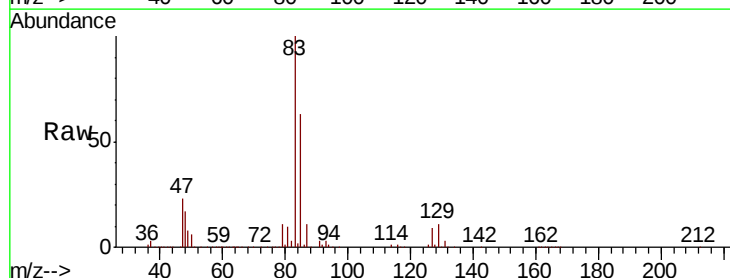
Tgt Ion: 83 Resp: 2223388

Ion Ratio Lower Upper

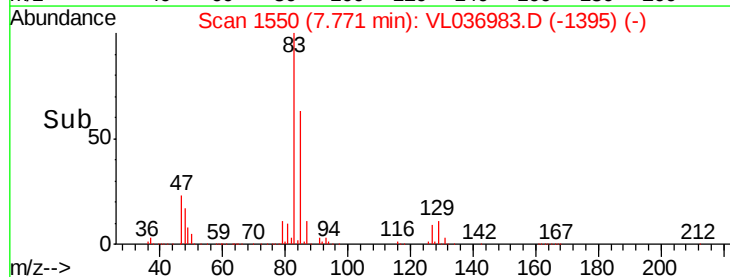
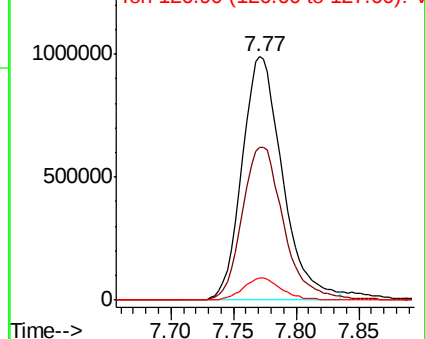
83 100

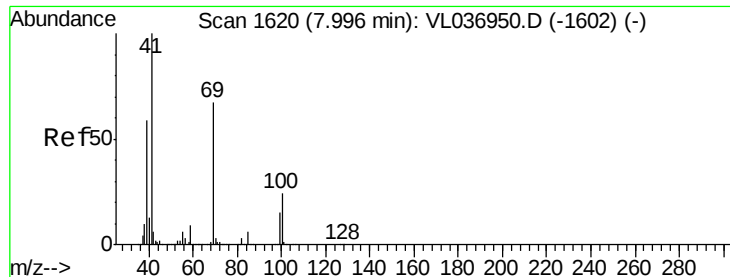
85 62.8 51.7 77.5

127 9.0 6.9 10.3



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0  
Ion 126.90 (126.60 to 127.60): V

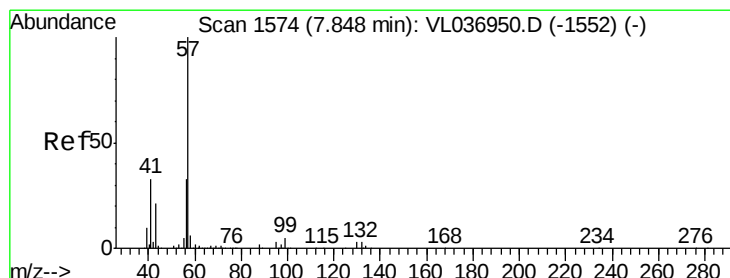
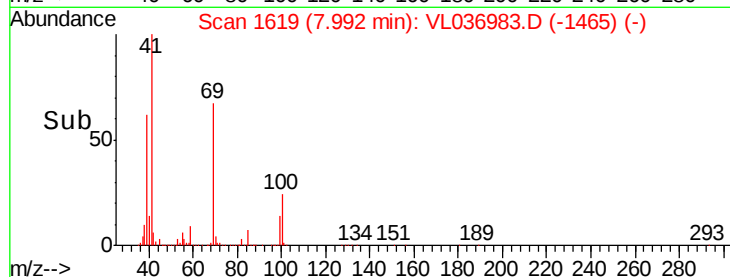
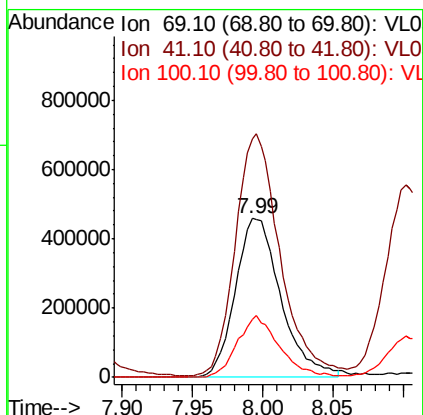
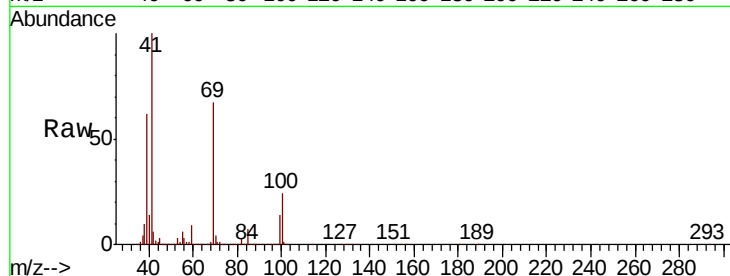




#43  
Methvl Methacrylate  
Concen: 9.575 ppbv  
RT: 7.99 min Scan# 1619  
Delta R.T. -0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

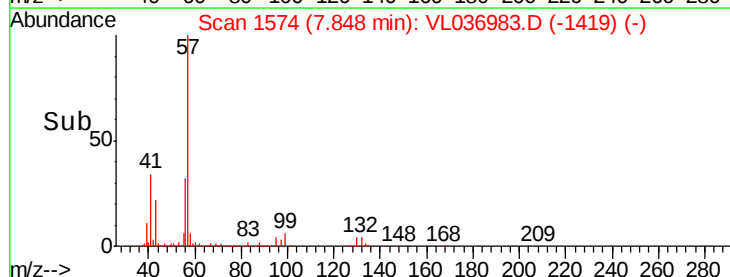
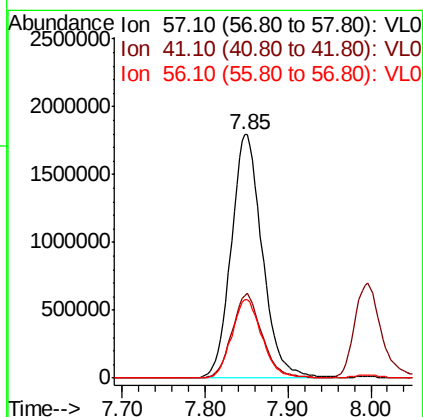
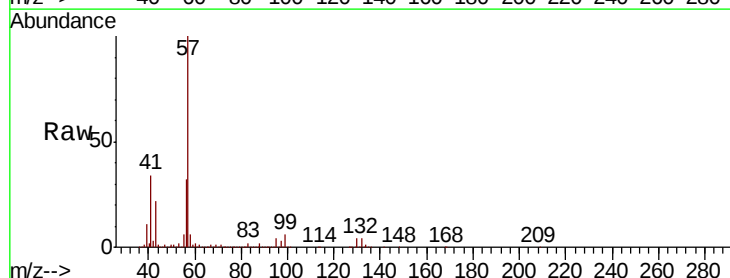
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

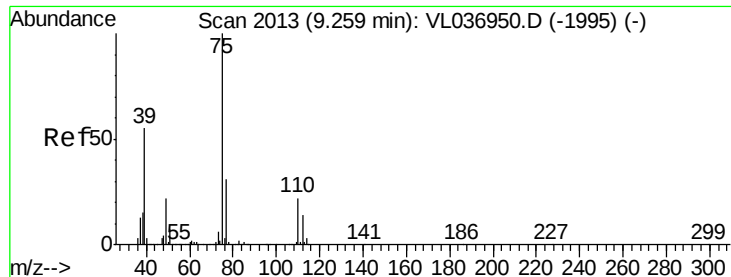
Tot Ion: 69 Resp: 1033991  
Ion Ratio Lower Upper  
69 100  
41 150.7 118.6 178.0  
100 35.9 28.2 42.4



#44  
2,2,4-Trimethylpentane  
Concen: 8.724 ppbv  
RT: 7.85 min Scan# 1574  
Delta R.T. -0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

Tgt Ion: 57 Resp: 4689375  
Ion Ratio Lower Upper  
57 100  
41 33.5 27.0 40.4  
56 31.6 25.4 38.2

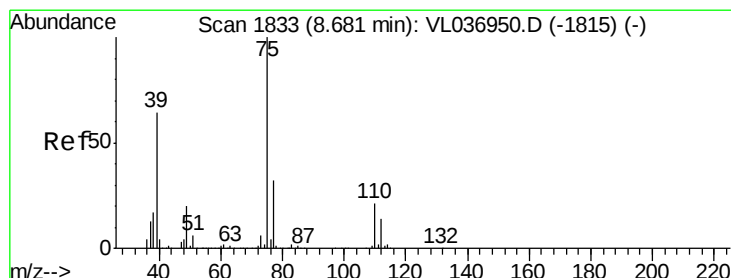
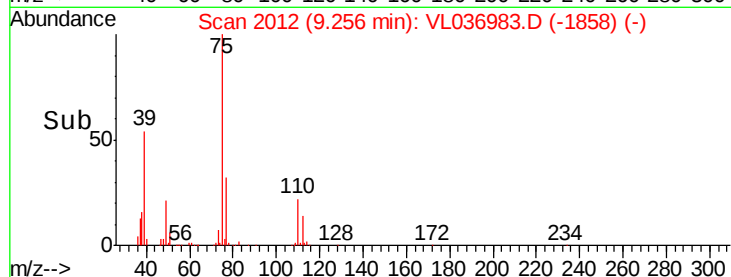
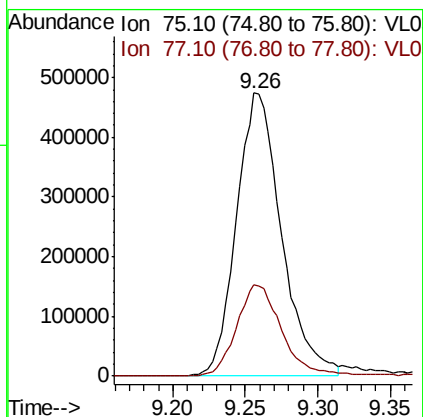
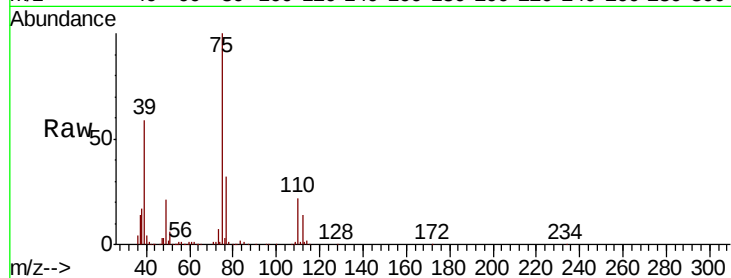




#45  
t-1,3-Dichloropropene  
Concen: 12.329 ppbv  
RT: 9.26 min Scan# 2012  
Delta R.T. -0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

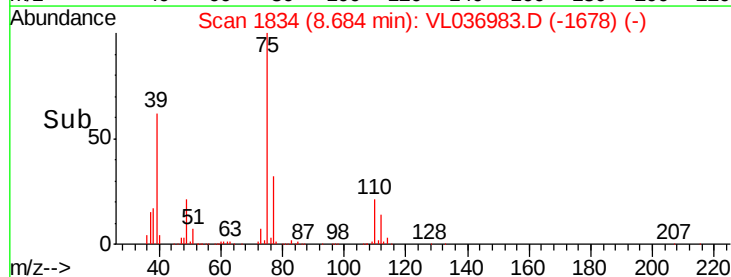
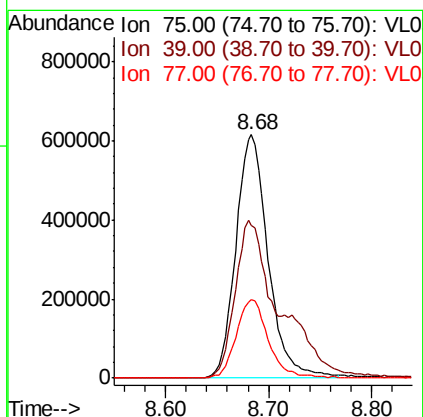
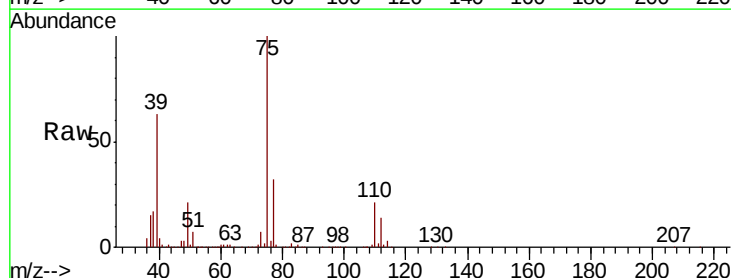
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

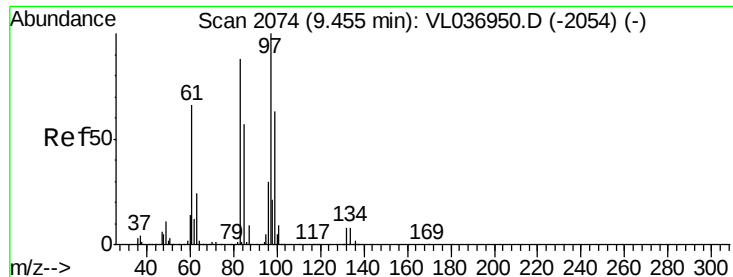
Tot Ion: 75 Resp: 1017170  
Ion Ratio Lower Upper  
75 100  
77 32.3 24.4 36.6



#46  
cis-1,3-Dichloropropene  
Concen: 12.081 ppbv  
RT: 8.68 min Scan# 1834  
Delta R.T. 0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

Tgt Ion: 75 Resp: 1340620  
Ion Ratio Lower Upper  
75 100  
39 62.8 51.5 77.3  
77 32.4 25.9 38.9



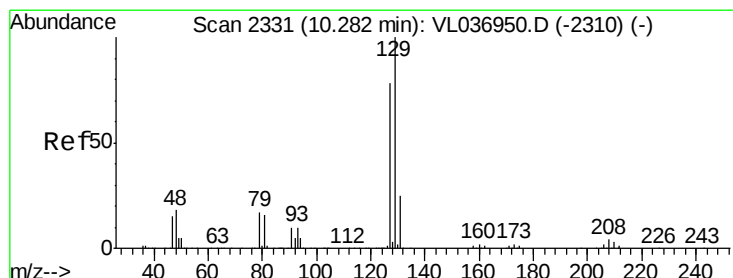
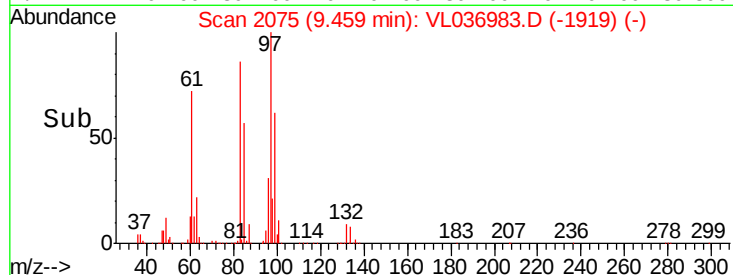
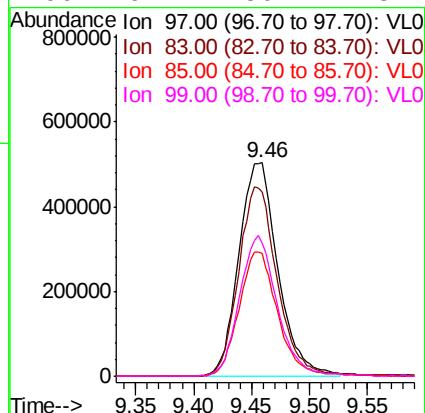
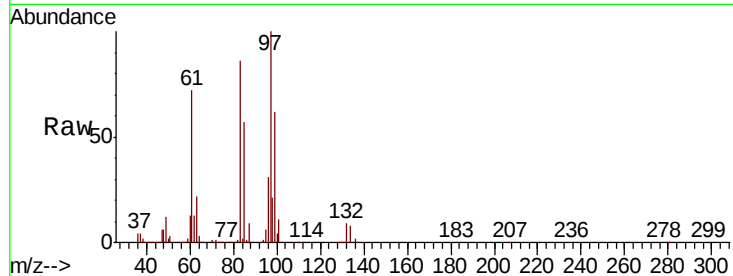


#47  
 1,1,2-Trichloroethane  
 Concen: 9.358 ppbv  
 RT: 9.46 min Scan# 2075  
 Delta R.T. 0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion: 97 Resp: 1182122

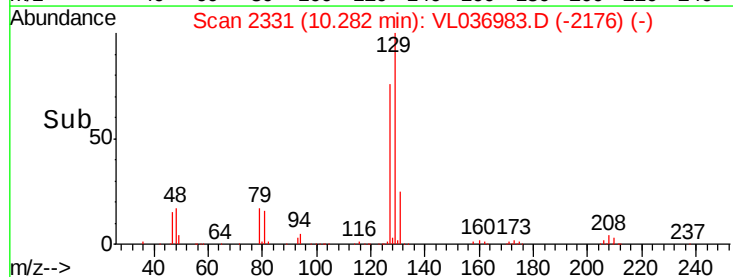
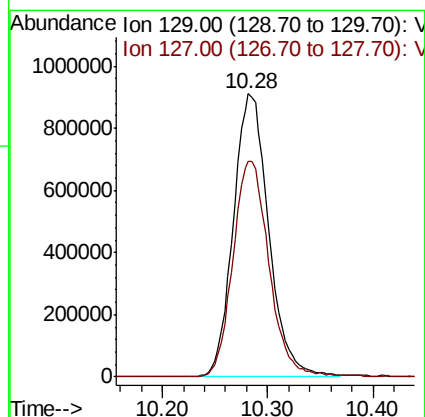
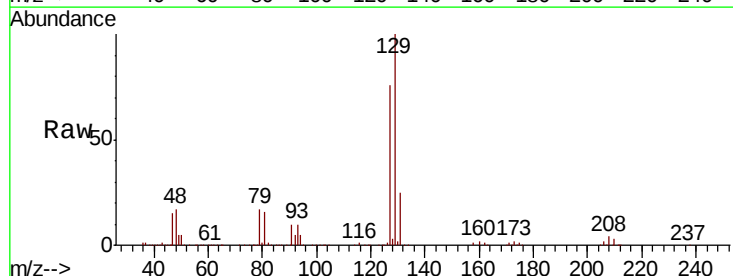
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 86.0  | 70.4  | 105.6 |
| 85  | 57.3  | 45.5  | 68.3  |
| 99  | 62.1  | 50.2  | 75.2  |

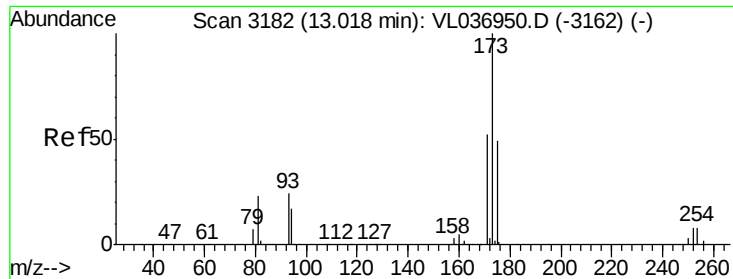


#48  
 Dibromochloromethane  
 Concen: 10.368 ppbv  
 RT: 10.28 min Scan# 2331  
 Delta R.T. -0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

Tgt Ion: 129 Resp: 2120717

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.4  | 39.3  | 117.8 |





#49

Bromoform

Concen: 10.446 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

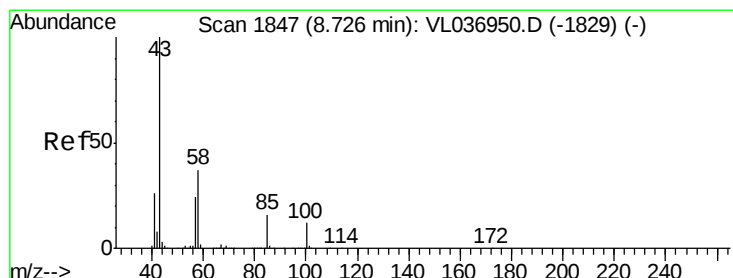
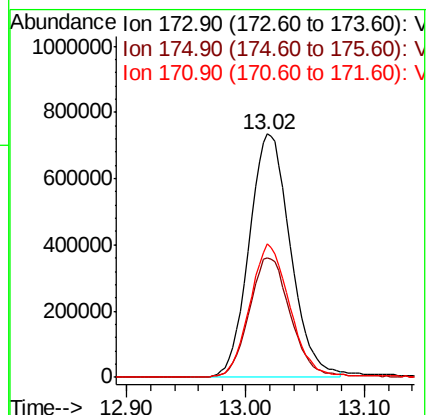
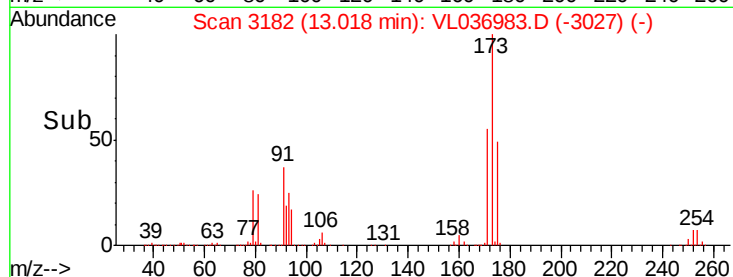
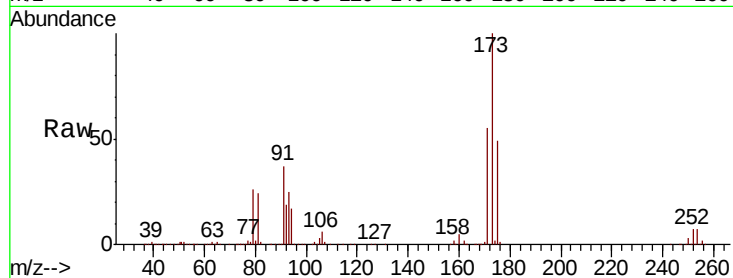
Tot Ion:173 Resp: 1764470

Ion Ratio Lower Upper

173 100

175 49.6 40.4 60.6

171 54.3 42.6 64.0



#50

4-Methyl-2-Pentanone

Concen: 9.417 ppbv

RT: 8.73 min Scan# 1847

Delta R.T. -0.00 min

Lab File: VL036983.D

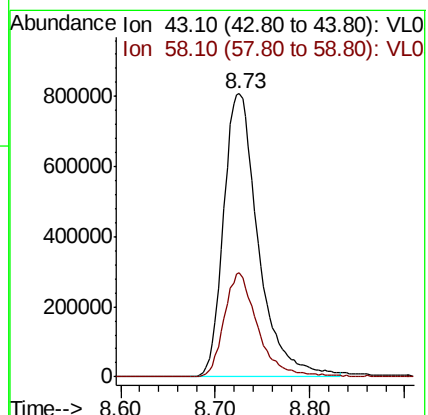
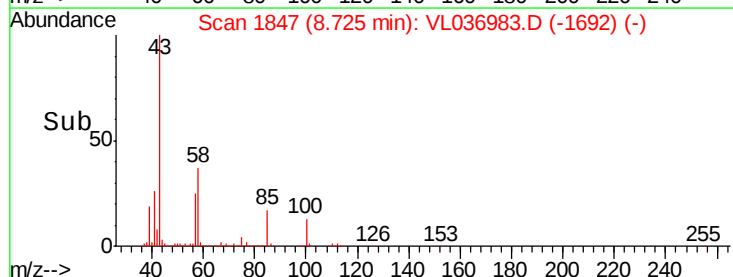
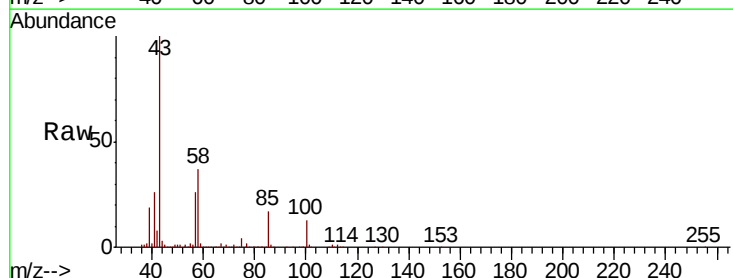
Acq: 19 May 2021 00:08

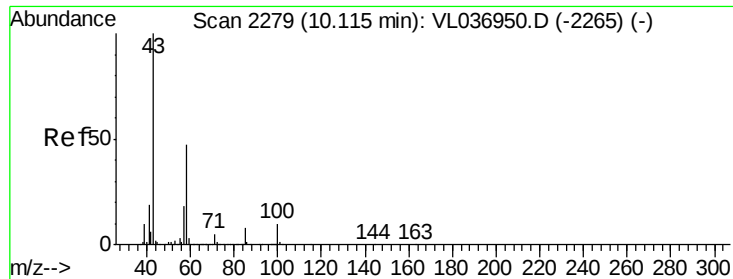
Tgt Ion: 43 Resp: 2058235

Ion Ratio Lower Upper

43 100

58 35.7 29.4 44.2

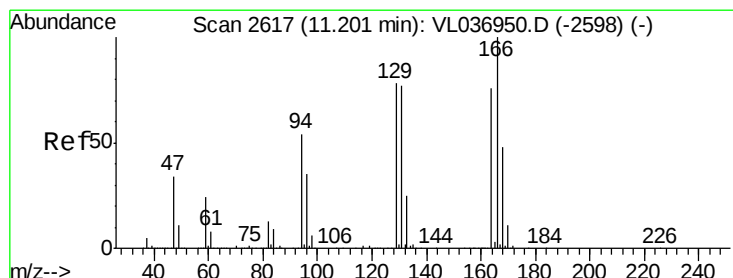
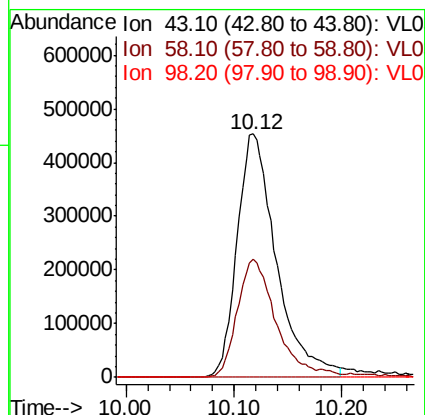
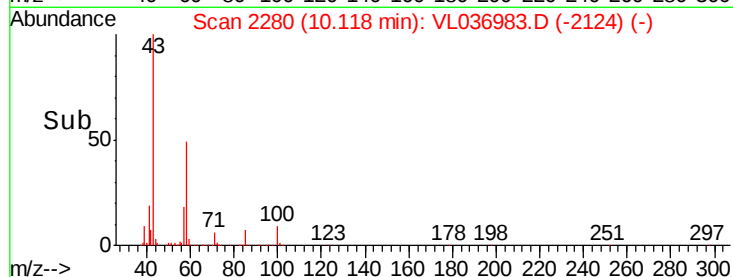
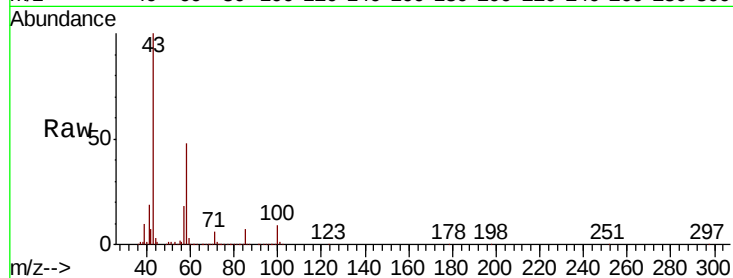




#51  
2-Hexanone  
Concen: 9.863 ppbv  
RT: 10.12 min Scan# 2280  
Delta R.T. 0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

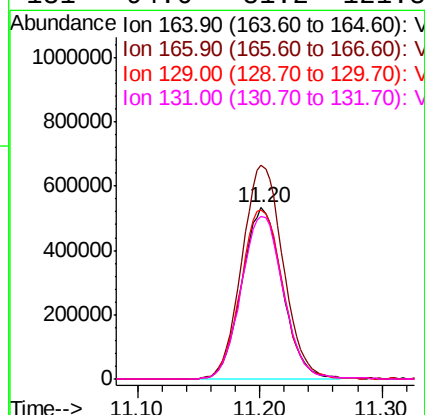
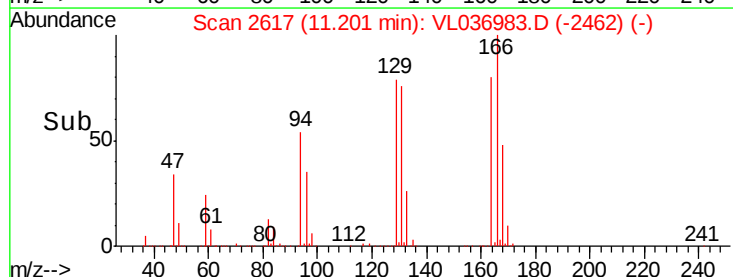
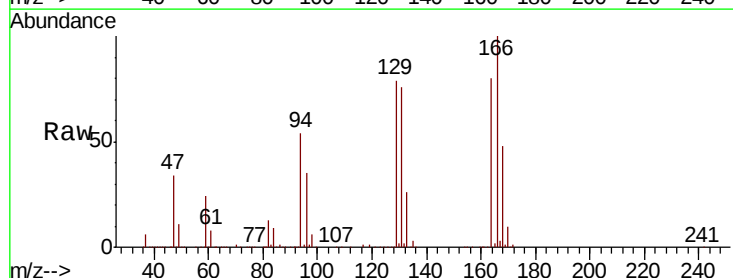
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

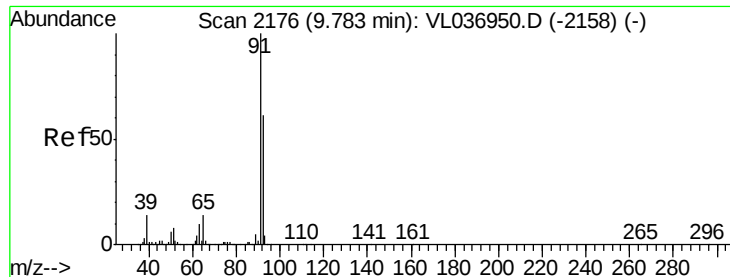
Tot Ion: 43 Resp: 1139564  
Ion Ratio Lower Upper  
43 100  
58 50.0 41.1 61.7  
98 0.1 0.1 0.1



#52  
Tetrachloroethene  
Concen: 9.818 ppbv  
RT: 11.20 min Scan# 2617  
Delta R.T. -0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

Tgt Ion: 164 Resp: 1223195  
Ion Ratio Lower Upper  
164 100  
166 124.7 105.5 158.3  
129 98.9 81.8 122.8  
131 94.6 81.2 121.8





#53

Toluene

Concen: 9.316 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

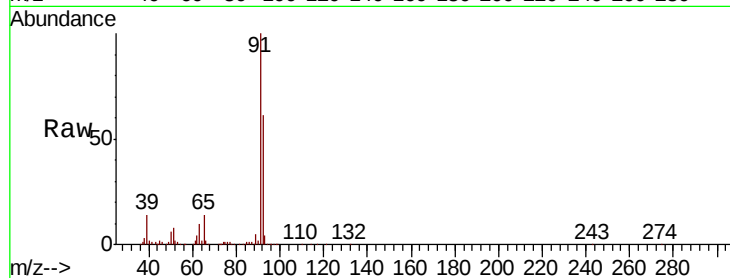
VSTDCCC010EC

Tot Ion: 91 Resp: 3472927

Ion Ratio Lower Upper

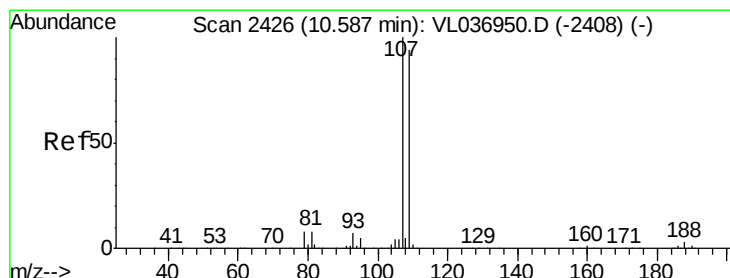
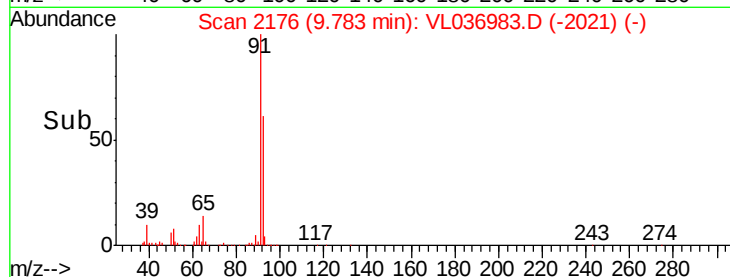
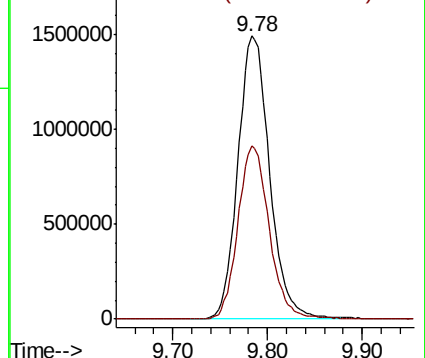
91 100

92 61.0 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.445 ppbv

RT: 10.59 min Scan# 2427

Delta R.T. 0.00 min

Lab File: VL036983.D

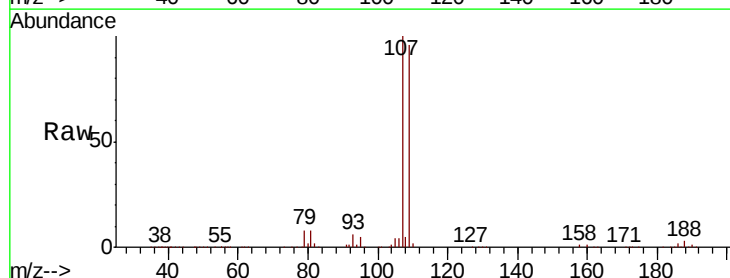
Acq: 19 May 2021 00:08

Tgt Ion:107 Resp: 1875859

Ion Ratio Lower Upper

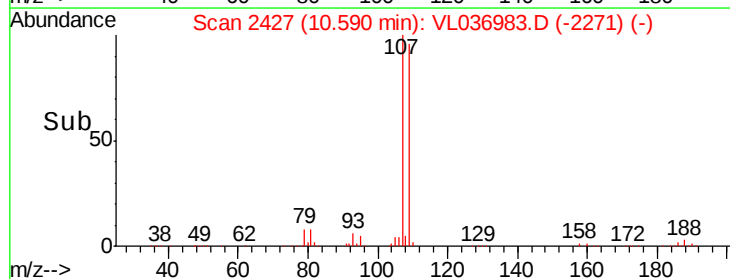
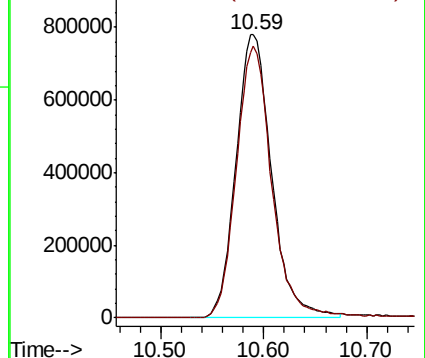
107 100

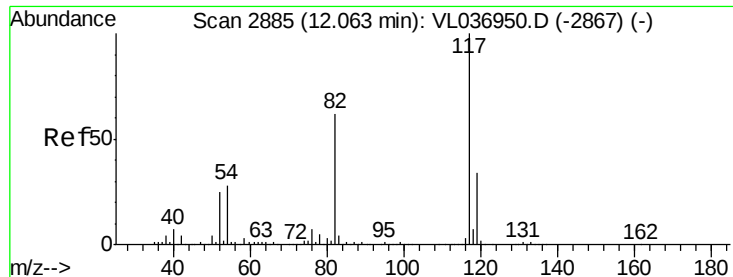
109 96.1 75.0 112.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

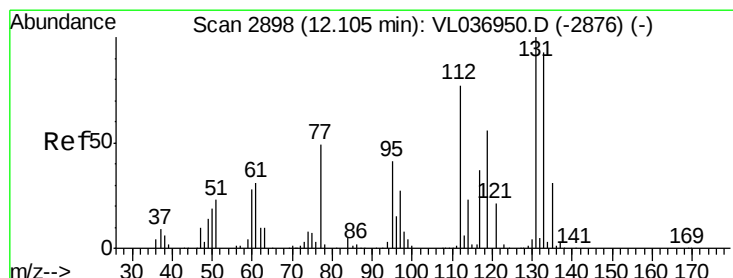
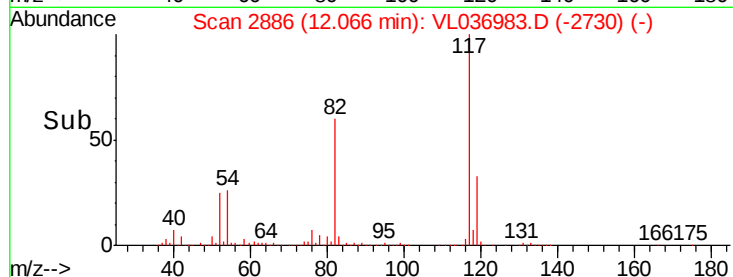
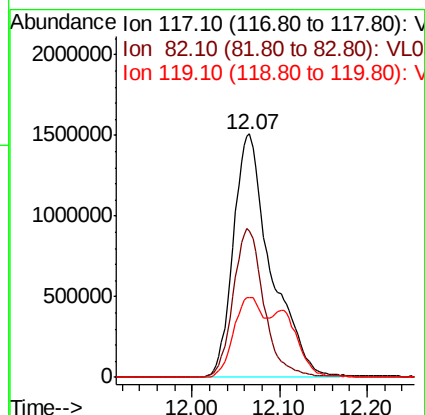
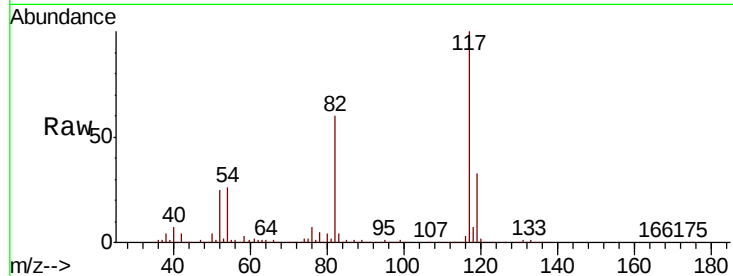




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min Scan# 2886  
Delta R.T. 0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

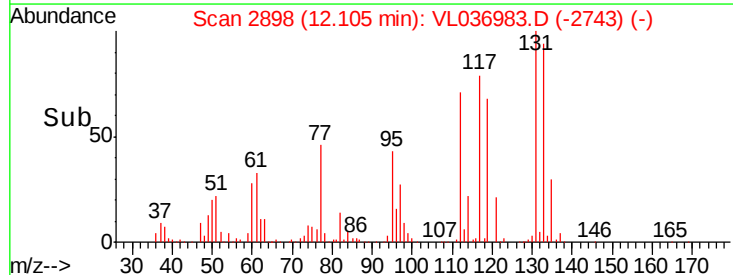
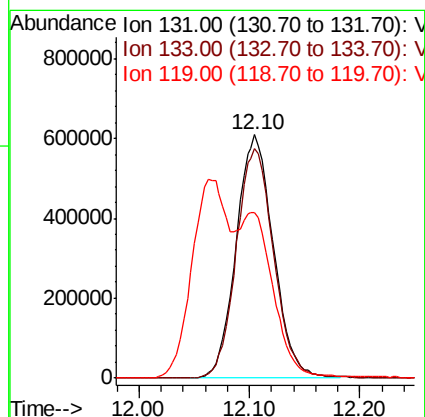
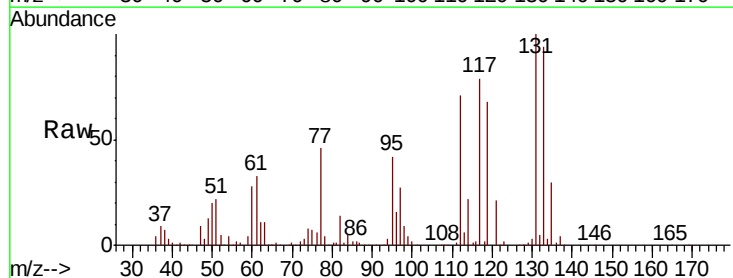
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

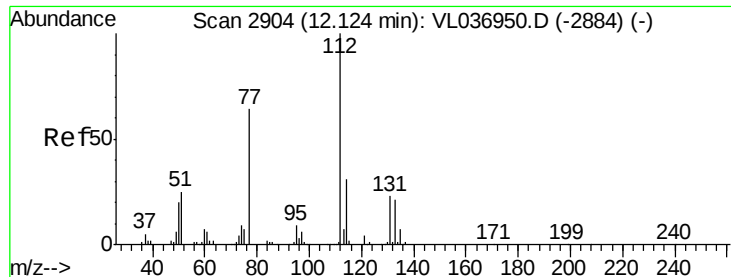
Tot Ion:117 Resp: 4496358  
Ion Ratio Lower Upper  
117 100  
82 51.0 52.6 79.0#  
119 46.6 46.6 70.0#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.509 ppbv  
RT: 12.10 min Scan# 2898  
Delta R.T. -0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

Tgt Ion:131 Resp: 1420597  
Ion Ratio Lower Upper  
131 100  
133 95.5 76.9 115.3  
119 147.7 120.2 180.4





#57

Chlorobenzene

Concen: 7.740 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. 0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

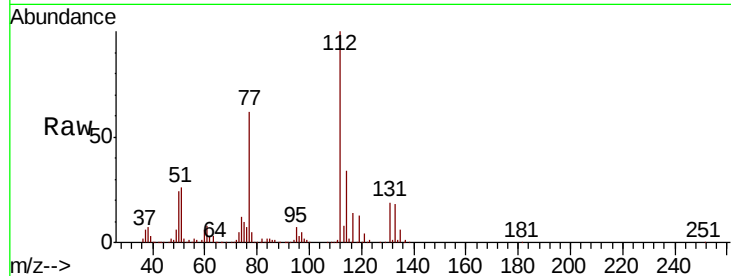
Tot Ion:112 Resp: 2698474

Ion Ratio Lower Upper

112 100

77 61.7 51.0 76.6

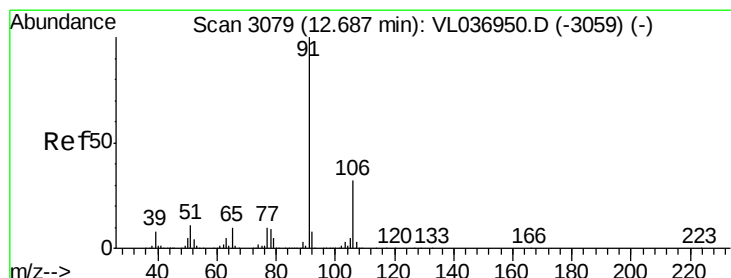
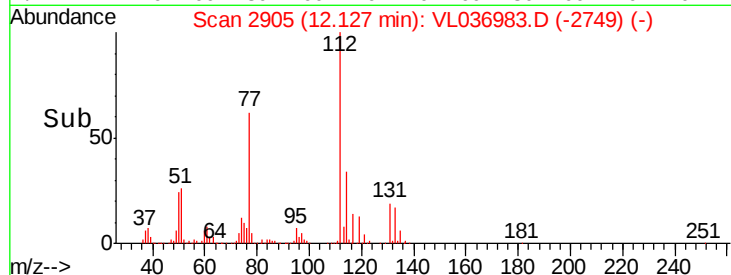
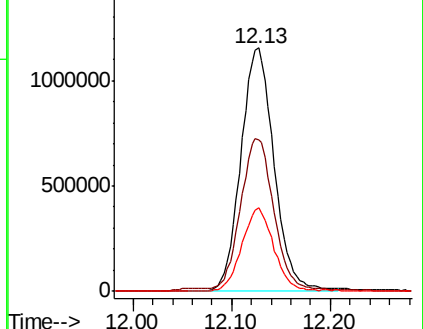
114 34.3 28.3 34.5



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 7.476 ppbv

RT: 12.69 min Scan# 3080

Delta R.T. 0.00 min

Lab File: VL036983.D

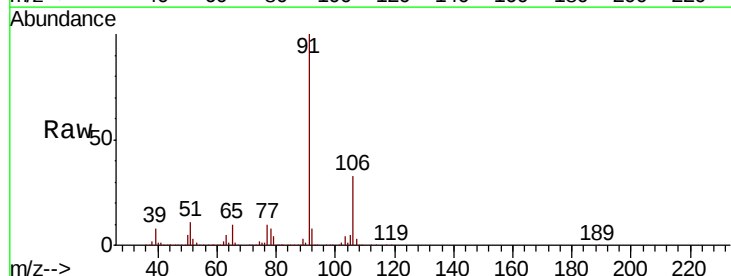
Acq: 19 May 2021 00:08

Tgt Ion: 91 Resp: 4744316

Ion Ratio Lower Upper

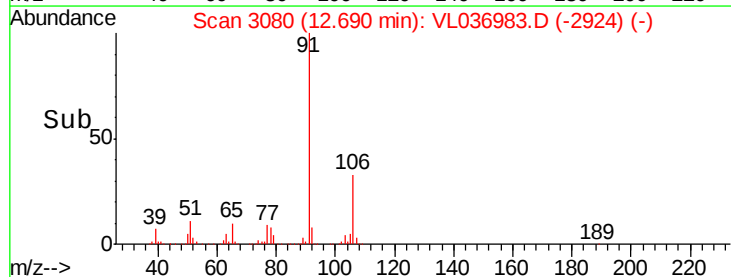
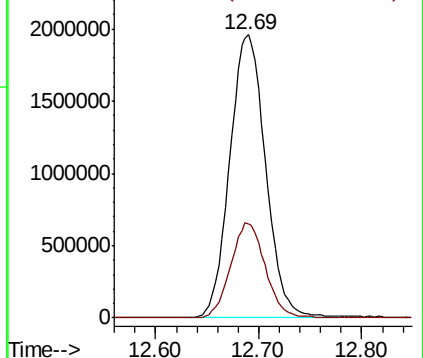
91 100

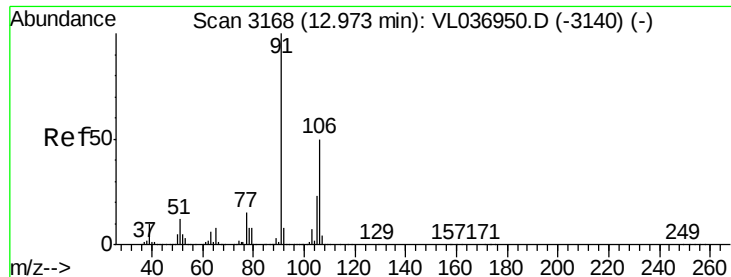
106 33.0 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

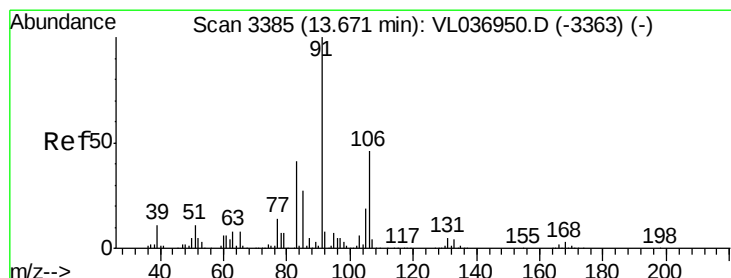
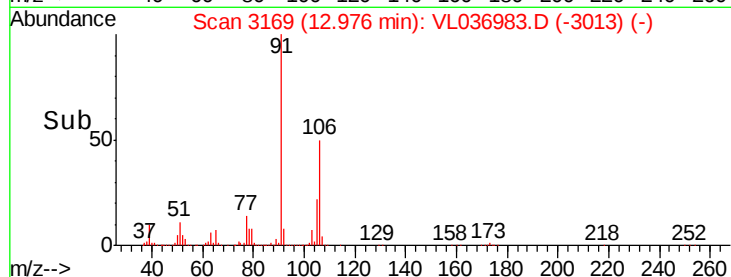
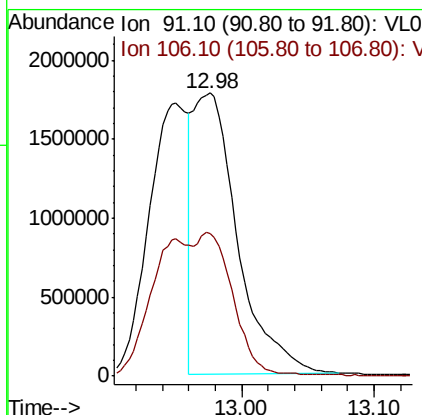
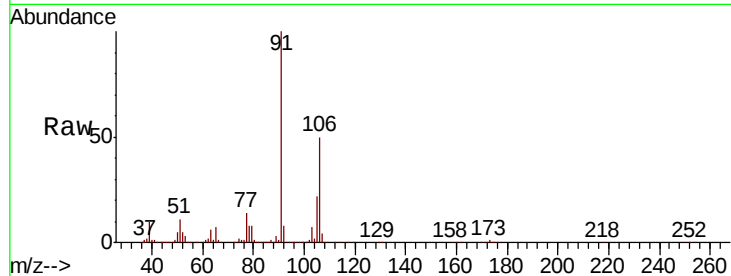




#59  
m/p-Xylene  
Concen: 7.861 ppbv  
RT: 12.98 min Scan# 3169  
Delta R.T. 0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

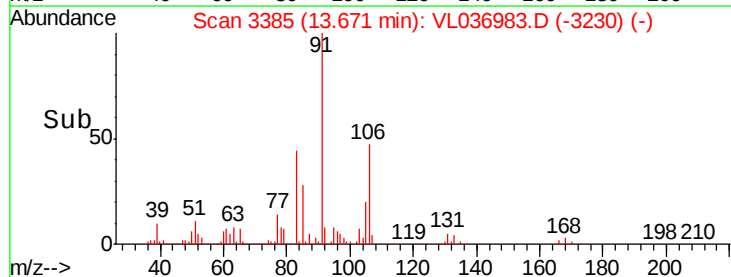
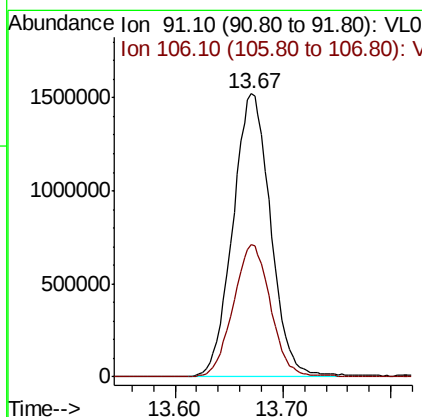
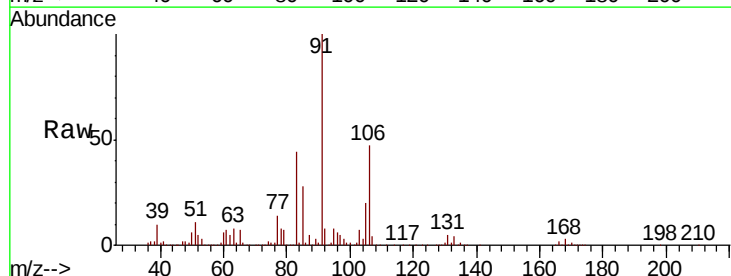
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

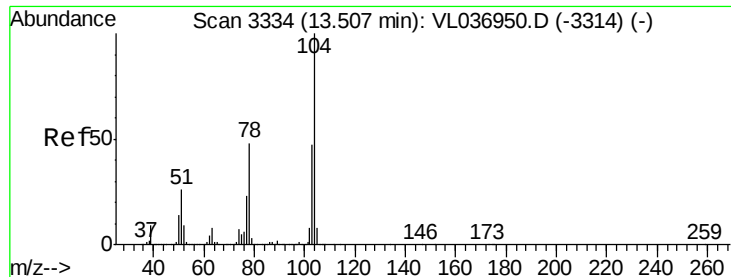
Tot Ion: 91 Resp: 4123560  
Ion Ratio Lower Upper  
91 100  
106 88.4 37.4 56.2#



#60  
o-Xylene  
Concen: 7.390 ppbv  
RT: 13.67 min Scan# 3385  
Delta R.T. -0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

Tgt Ion: 91 Resp: 3697177  
Ion Ratio Lower Upper  
91 100  
106 46.4 23.4 70.3





#61

Stvrene

Concen: 8.109 ppbv

RT: 13.51 min Scan# 3334

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

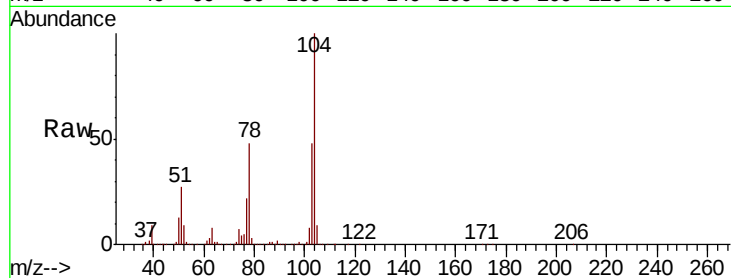
Tot Ion:104 Resp: 2285576

Ion Ratio Lower Upper

104 100

78 49.1 39.0 58.6

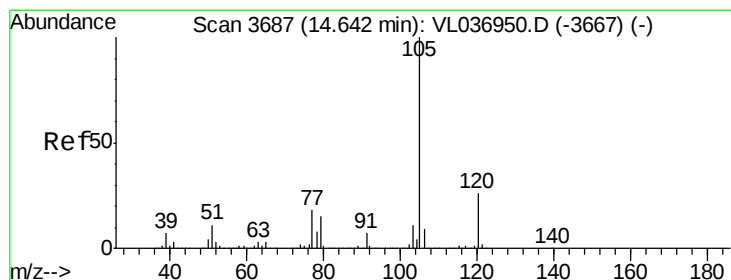
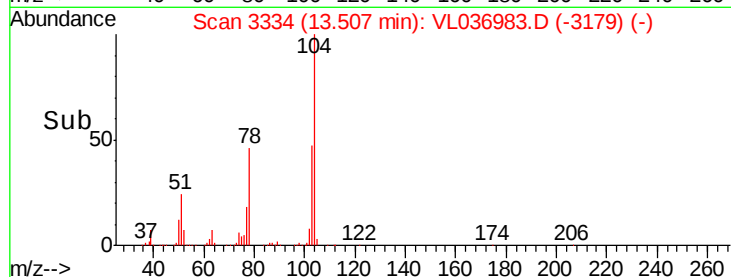
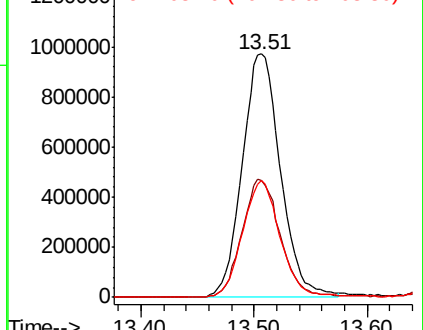
103 47.7 38.0 57.0



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



#62

Isopropylbenzene

Concen: 7.294 ppbv

RT: 14.64 min Scan# 3688

Delta R.T. 0.00 min

Lab File: VL036983.D

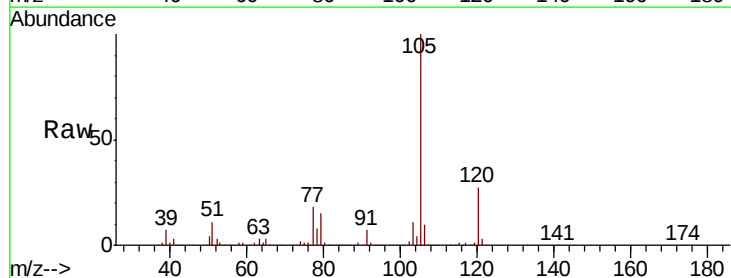
Acq: 19 May 2021 00:08

Tgt Ion:105 Resp: 5244846

Ion Ratio Lower Upper

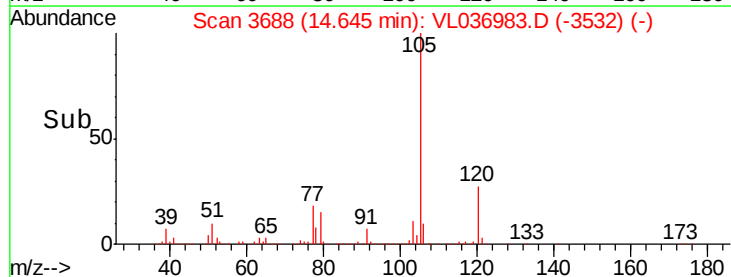
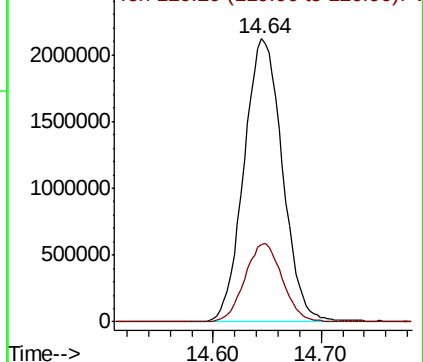
105 100

120 27.3 21.7 32.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 6.809 ppbv

RT: 13.65 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

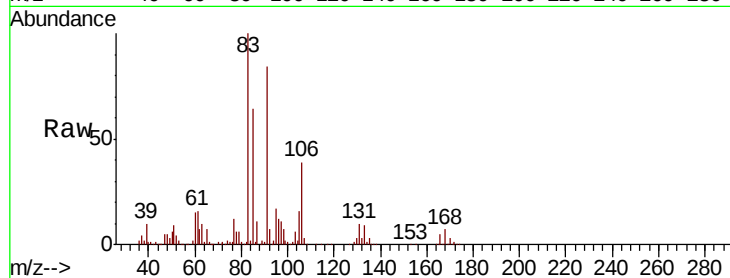
MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2544283

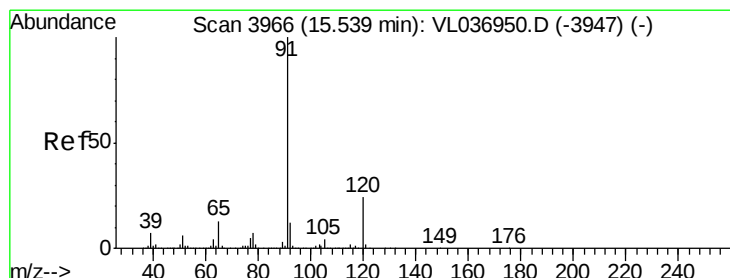
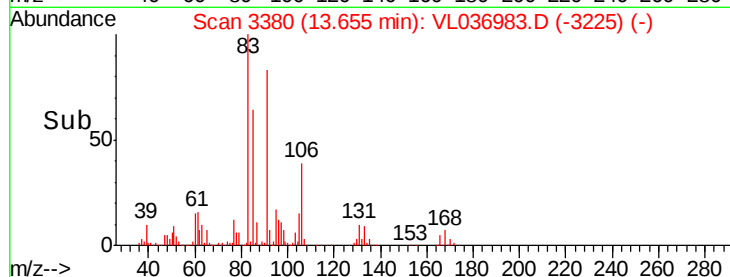
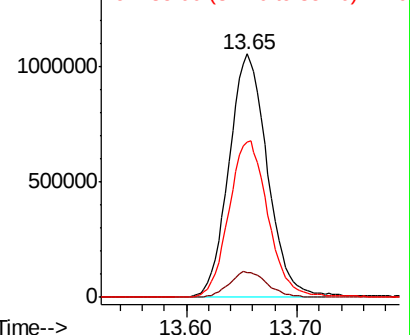
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 10.5  | 5.0   | 15.0  |
| 85  | 66.1  | 32.9  | 98.6  |



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.795 ppbv

RT: 15.54 min Scan# 3966

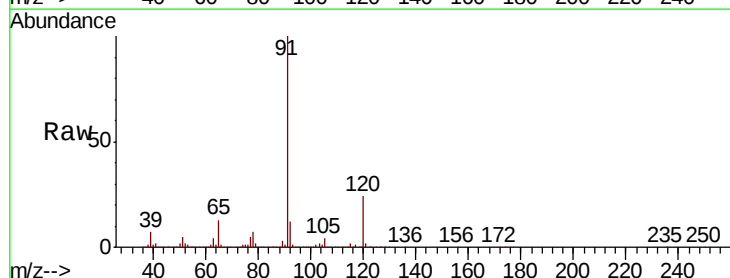
Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

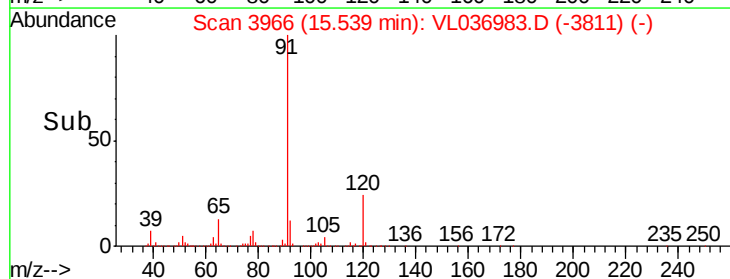
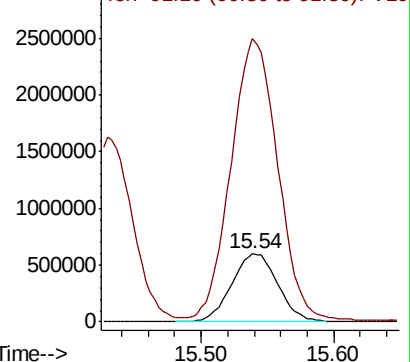
Tgt Ion: 120 Resp: 1446007

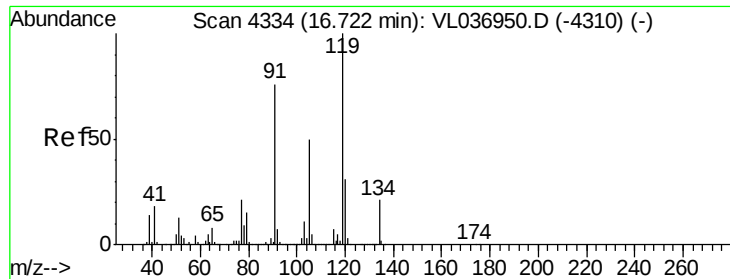
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 120 | 100   |       |       |
| 91  | 427.9 | 343.8 | 515.6 |



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.240 ppbv

RT: 16.73 min Scan# 4335

Delta R.T. 0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

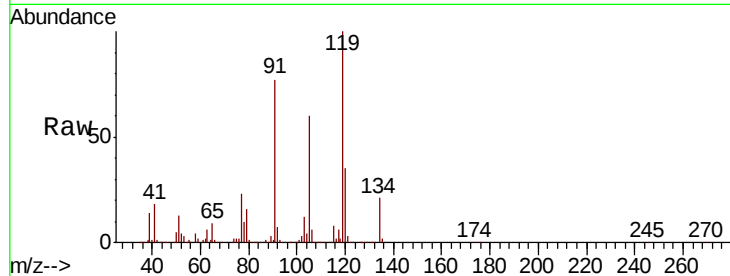
Tot Ion:119 Resp: 4697525

Ion Ratio Lower Upper

119 100

91 76.6 61.9 92.9

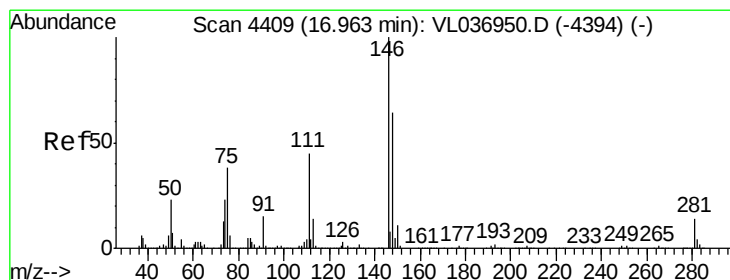
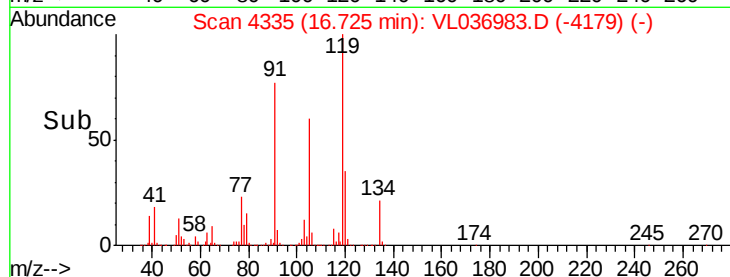
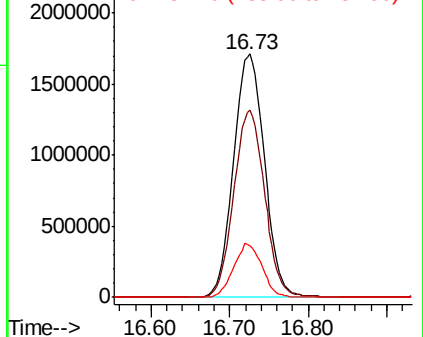
134 20.3 16.2 24.4



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 6.951 ppbv

RT: 16.97 min Scan# 4411

Delta R.T. 0.01 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

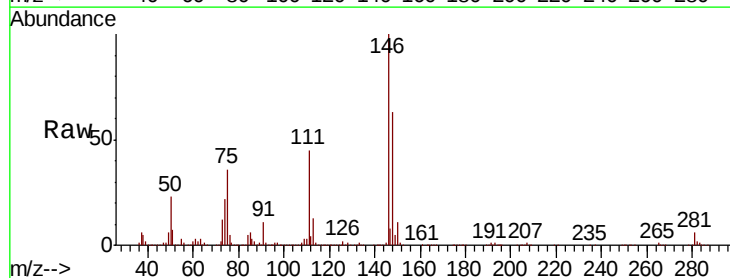
Tgt Ion: 91 Resp: 250230

Ion Ratio Lower Upper

91 100

126 18.9 16.5 24.7

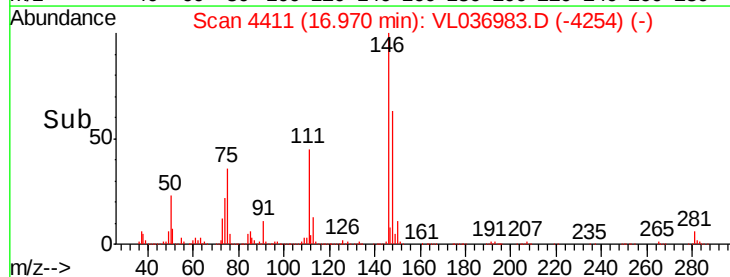
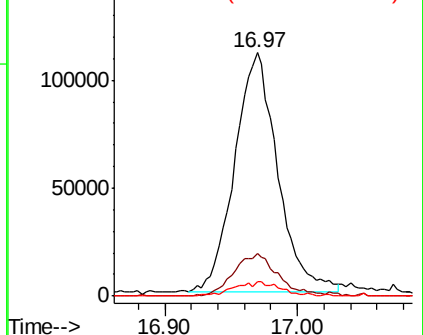
128 6.5 5.5 8.3

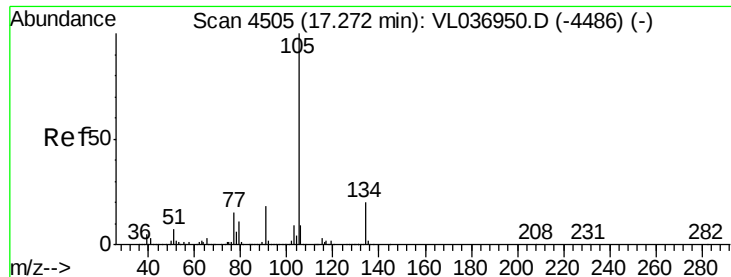


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.221 ppbv

RT: 17.27 min Scan# 4505

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

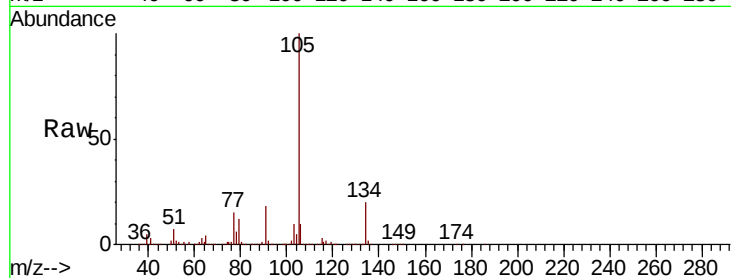
VSTDCCC010EC

Tot Ion:105 Resp: 6391488

Ion Ratio Lower Upper

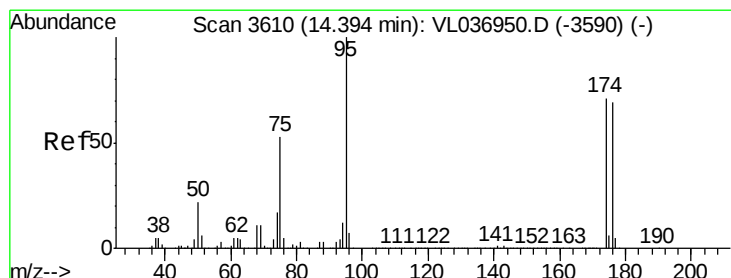
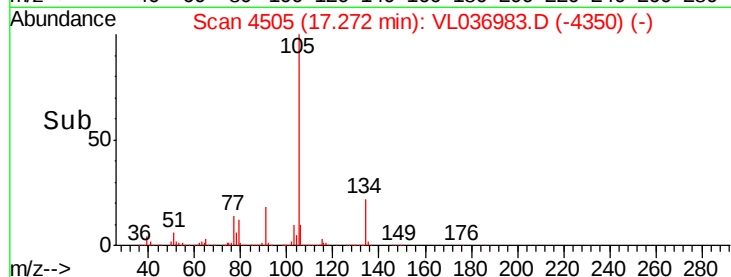
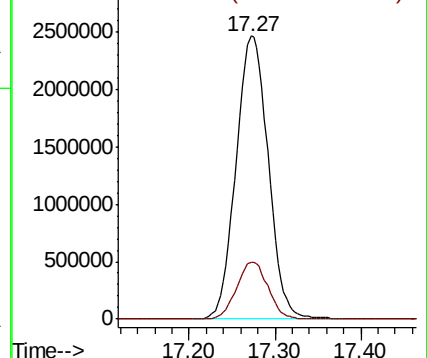
105 100

134 19.8 15.6 23.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.416 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

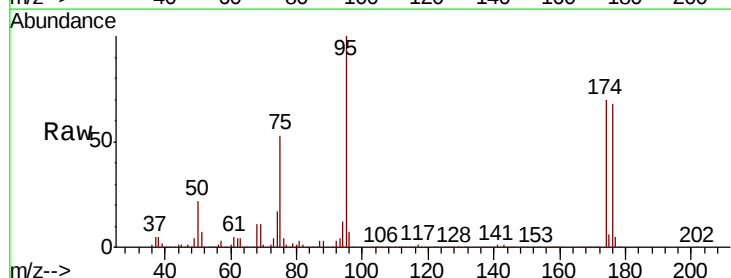
Tgt Ion: 95 Resp: 2842711

Ion Ratio Lower Upper

95 100

174 72.6 58.4 87.6

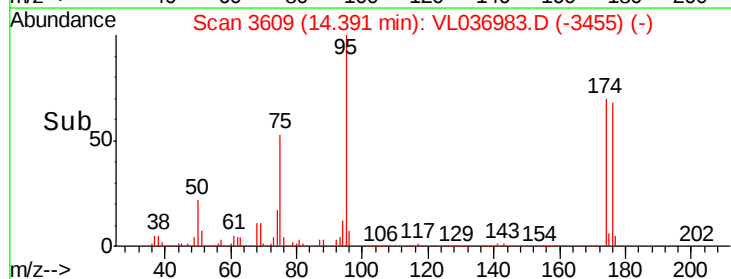
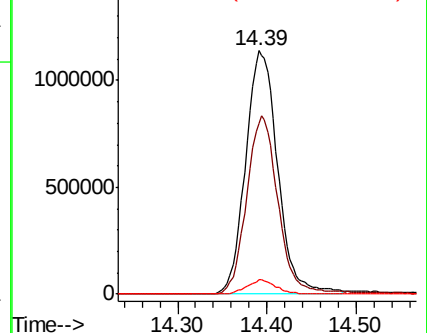
175 5.5 4.4 6.6

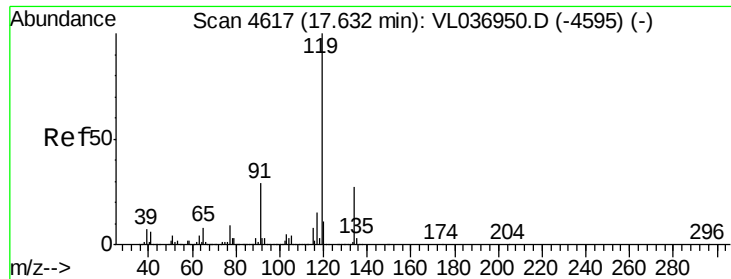


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

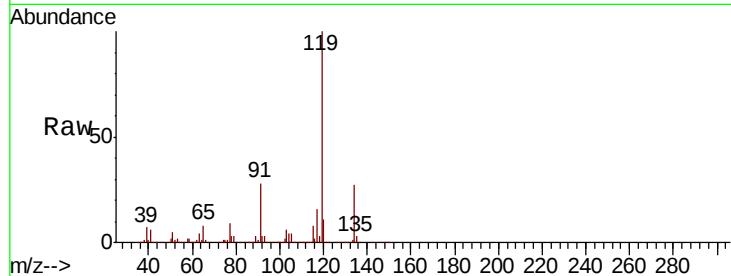




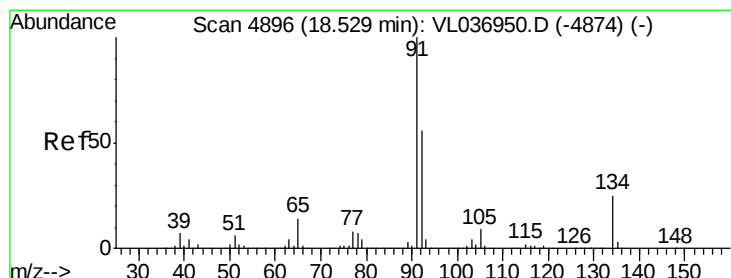
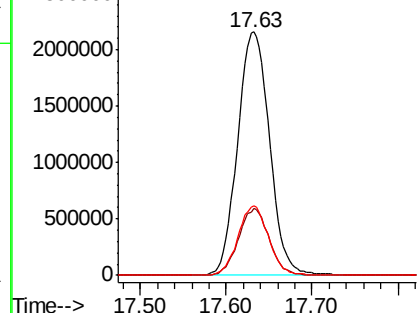
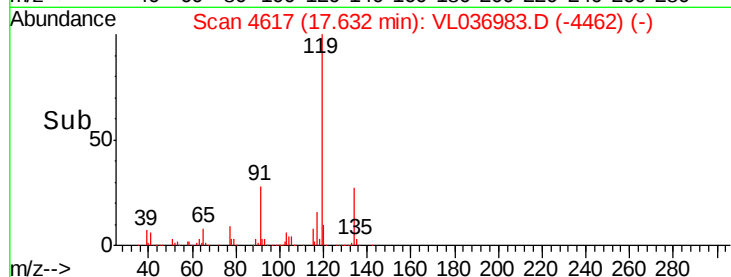
#69  
 p-Isopropyltoluene  
 Concen: 7.307 ppbv  
 RT: 17.63 min Scan# 4617  
 Delta R.T. -0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:119 Resp: 5560776  
 Ion Ratio Lower Upper  
 119 100  
 134 26.5 21.2 31.8  
 91 27.3 22.2 33.4

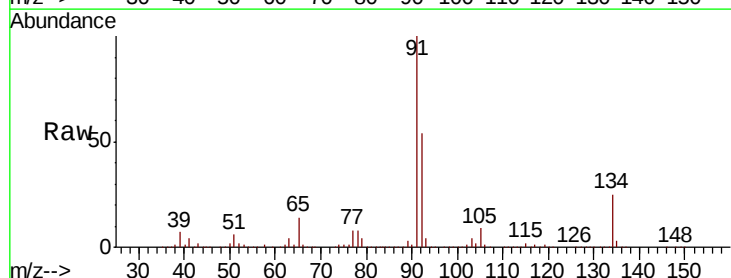


Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V

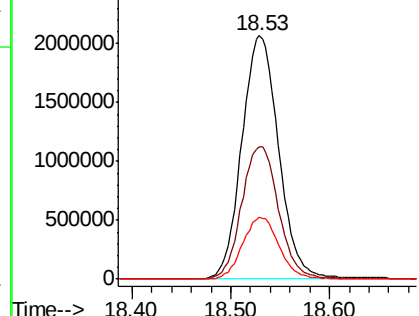
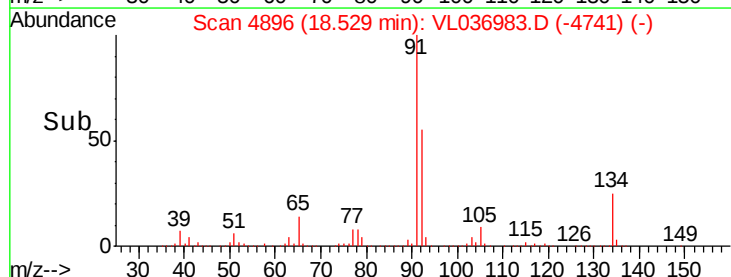


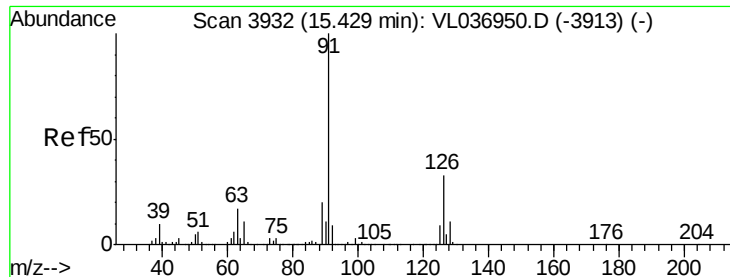
#70  
 n-Butylbenzene  
 Concen: 7.388 ppbv  
 RT: 18.53 min Scan# 4896  
 Delta R.T. -0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

Tgt Ion: 91 Resp: 5340877  
 Ion Ratio Lower Upper  
 91 100  
 92 55.1 44.6 66.8  
 134 25.5 20.2 30.2



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

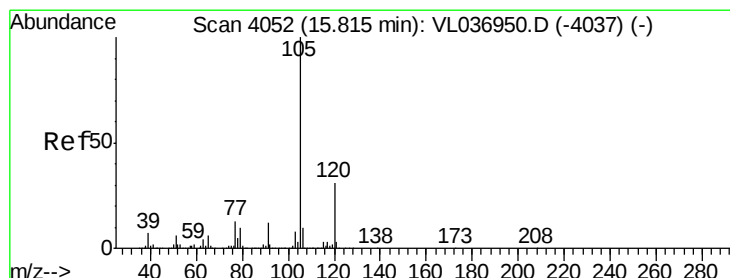
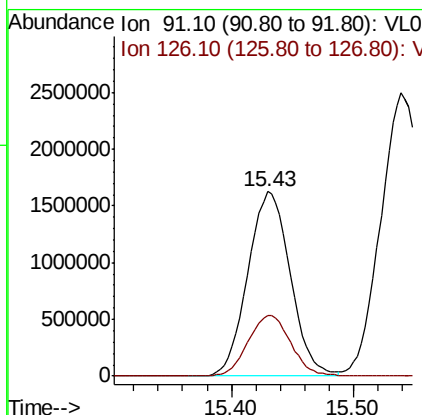
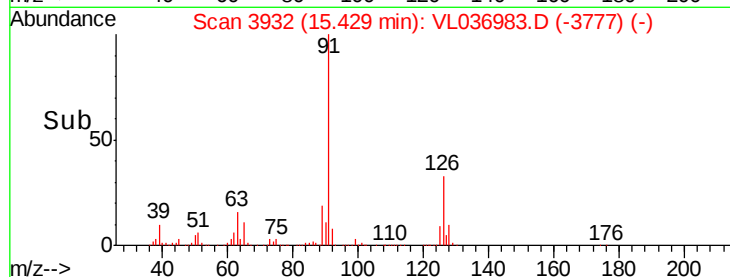
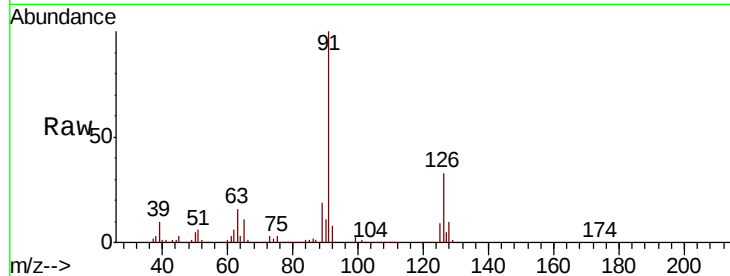




#71  
2-Chlorotoluene  
Concen: 7.544 ppbv  
RT: 15.43 min Scan# 3932  
Delta R.T. -0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

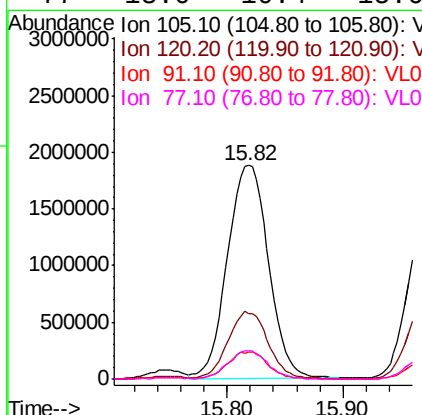
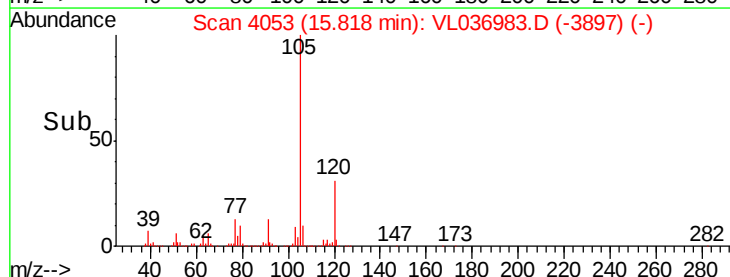
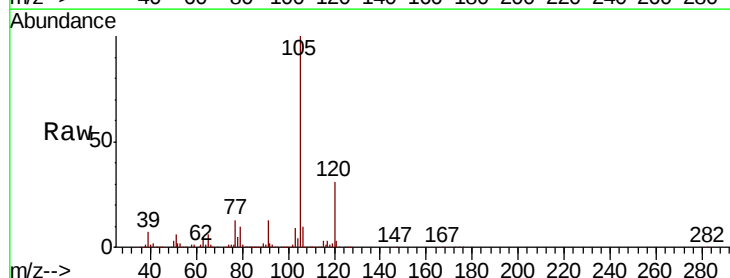
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

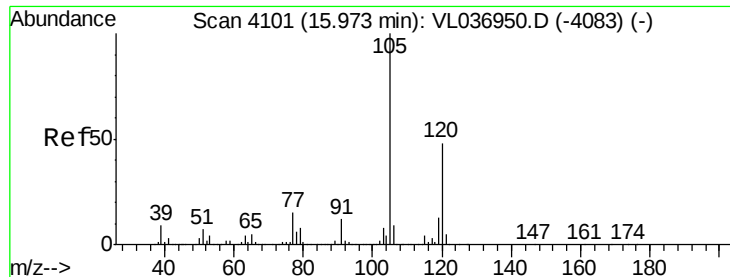
Tot Ion: 91 Resp: 3917953  
Ion Ratio Lower Upper  
91 100  
126 33.3 13.1 52.5



#72  
4-Ethyltoluene  
Concen: 7.754 ppbv  
RT: 15.82 min Scan# 4053  
Delta R.T. 0.00 min  
Lab File: VL036983.D  
Acq: 19 May 2021 00:08

Tgt Ion:105 Resp: 4604257  
Ion Ratio Lower Upper  
105 100  
120 31.3 24.6 37.0  
91 12.3 9.8 14.6  
77 13.0 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 7.423 ppbv

RT: 15.98 min Scan# 4102

Delta R.T. 0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

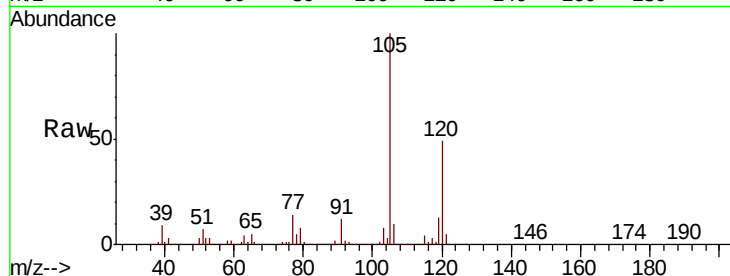
VSTDCCC010EC

Tot Ion:105 Resp: 4138995

Ion Ratio Lower Upper

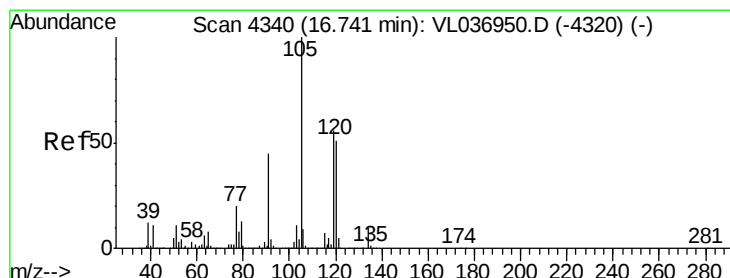
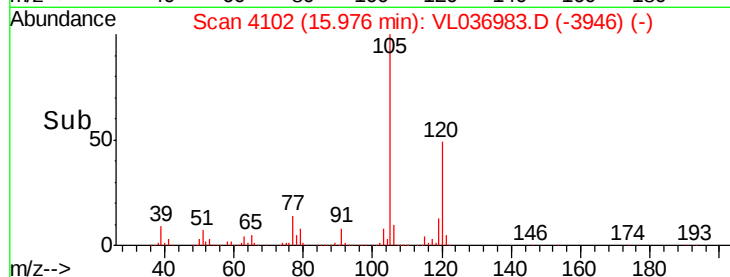
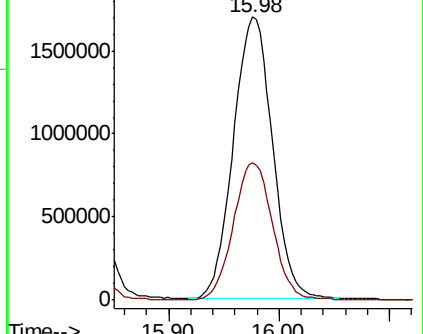
105 100

120 48.7 38.6 58.0



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: 7.411 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Tgt Ion:105 Resp: 4272827

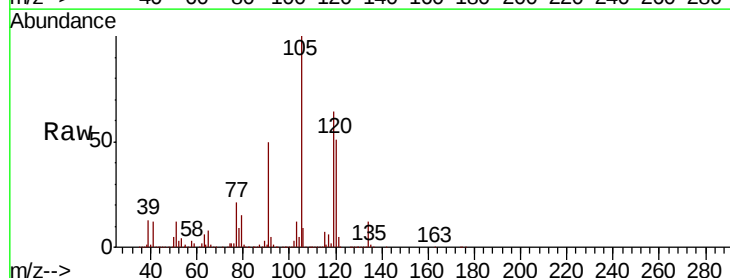
Ion Ratio Lower Upper

105 100

120 50.5 40.6 61.0

91 49.3 37.4 56.0

77 21.0 16.2 24.4

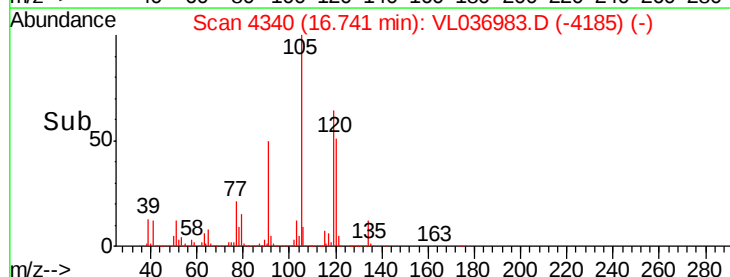
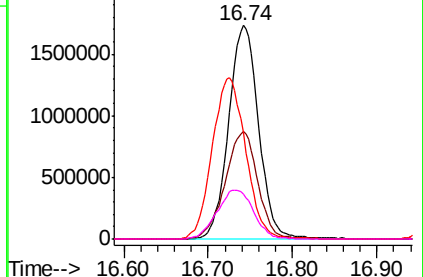


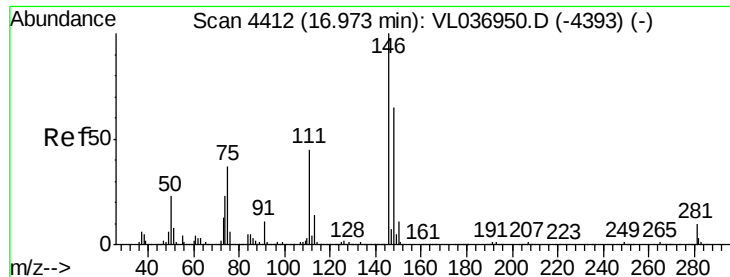
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 7.746 ppbv

RT: 16.98 min Scan# 4413

Delta R.T. 0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

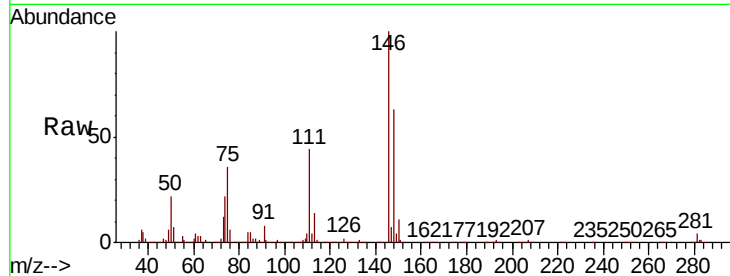
Tot Ion:146 Resp: 2727242

Ion Ratio Lower Upper

146 100

111 43.8 22.2 66.6

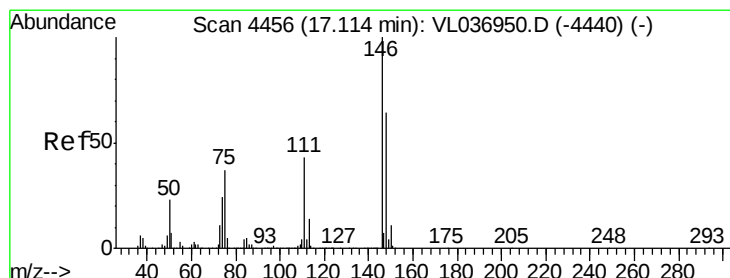
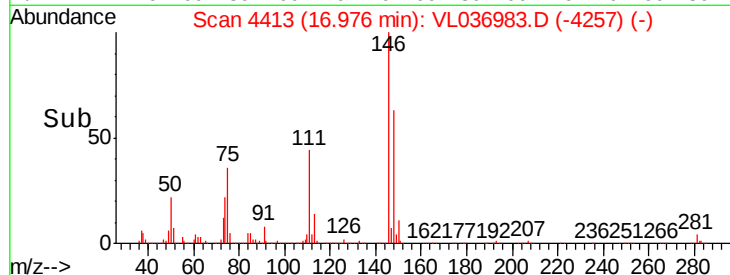
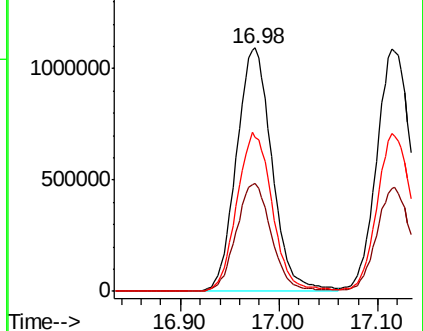
148 64.8 32.3 96.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 7.414 ppbv

RT: 17.11 min Scan# 4456

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

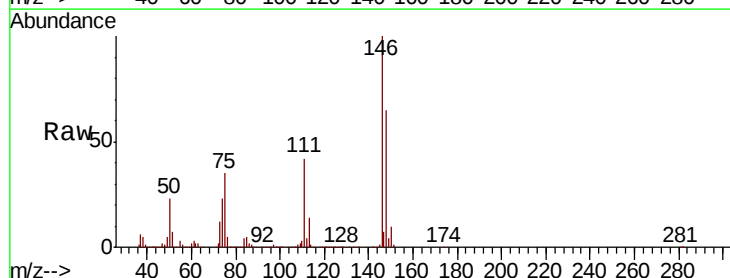
Tgt Ion:146 Resp: 2639018

Ion Ratio Lower Upper

146 100

111 43.3 22.6 67.7

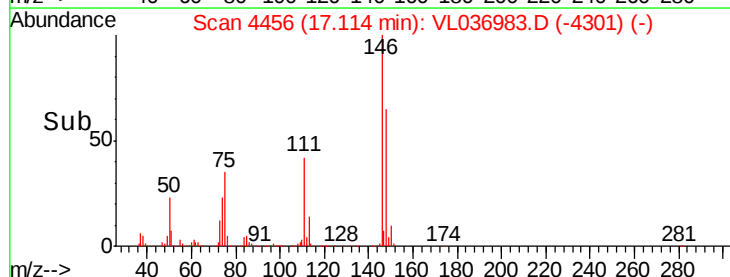
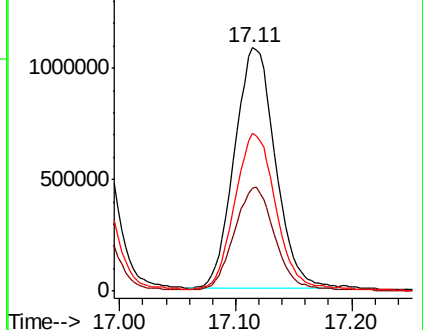
148 67.1 33.5 100.5

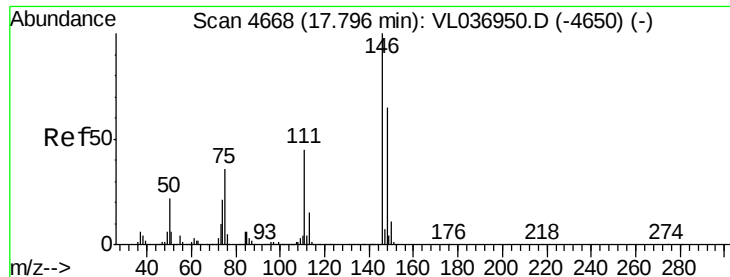


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 7.464 ppbv

RT: 17.80 min Scan# 4668

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

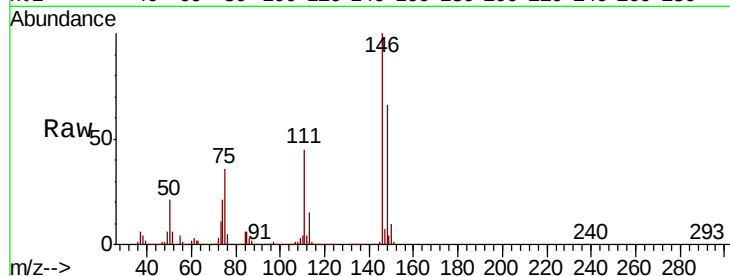
Tot Ion:146 Resp: 2632932

Ion Ratio Lower Upper

146 100

111 45.6 23.1 69.2

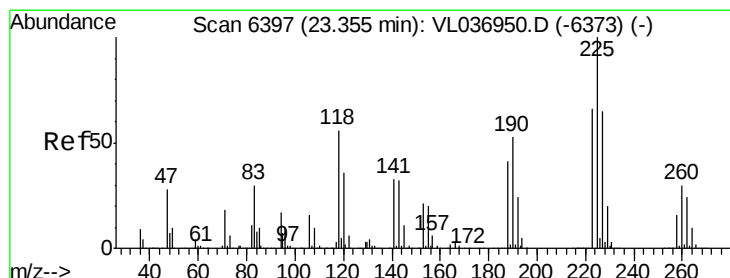
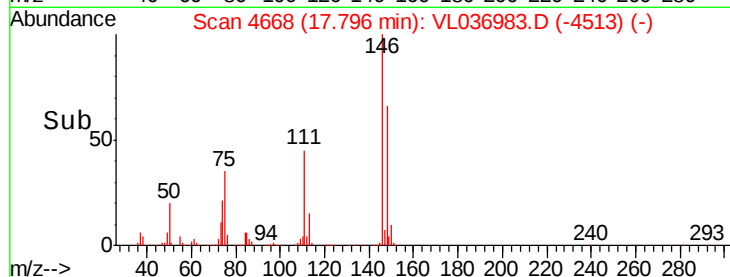
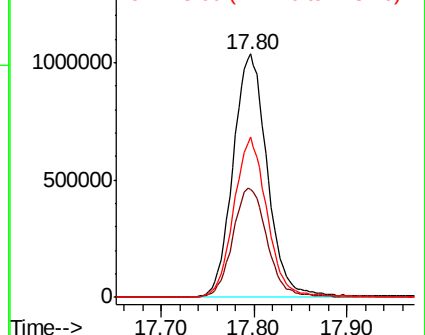
148 64.3 32.5 97.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 6.500 ppbv

RT: 23.36 min Scan# 6397

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

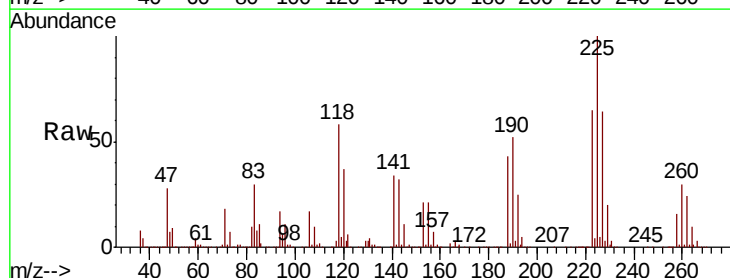
Tgt Ion:225 Resp: 1843775

Ion Ratio Lower Upper

225 100

223 64.3 51.9 77.9

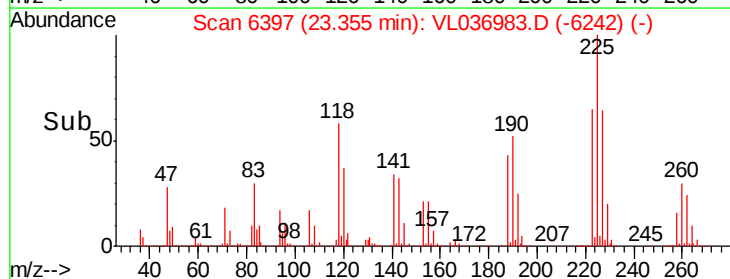
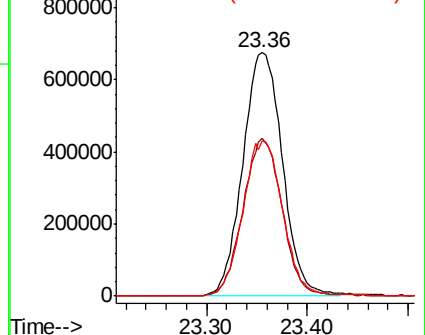
227 64.8 51.8 77.6

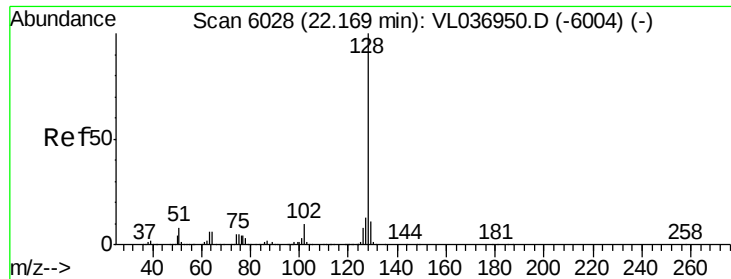


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 8.841 ppbv

RT: 22.17 min Scan# 6029

Delta R.T. 0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

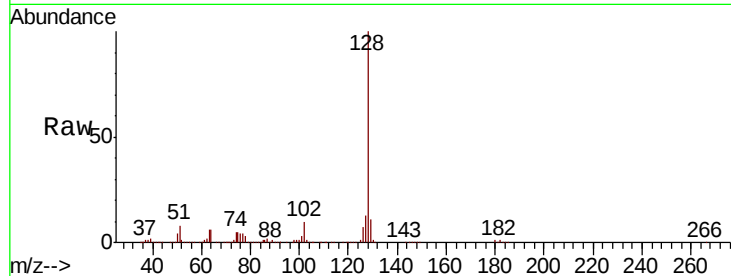
Tot Ion:128 Resp: 3999503

Ion Ratio Lower Upper

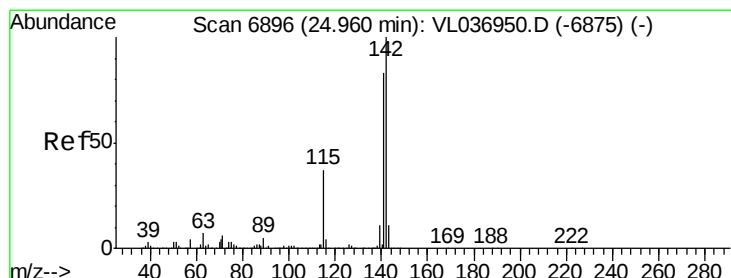
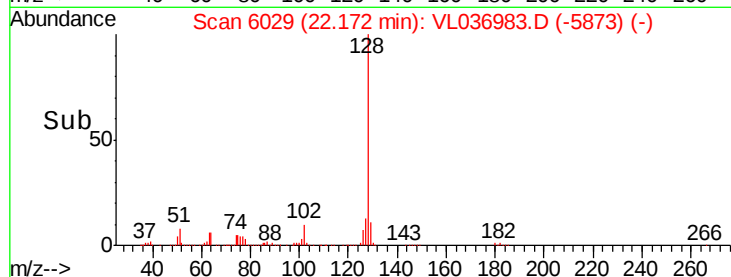
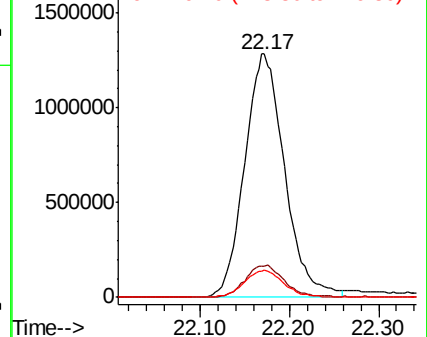
128 100

127 12.6 10.4 15.6

129 11.1 9.0 13.6



Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 11.865 ppbv

RT: 24.96 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL036983.D

Acq: 19 May 2021 00:08

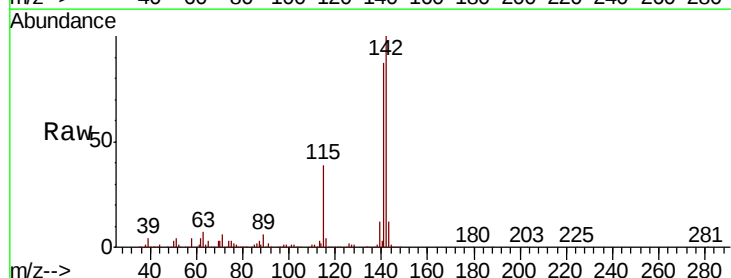
Tgt Ion:142 Resp: 1167199

Ion Ratio Lower Upper

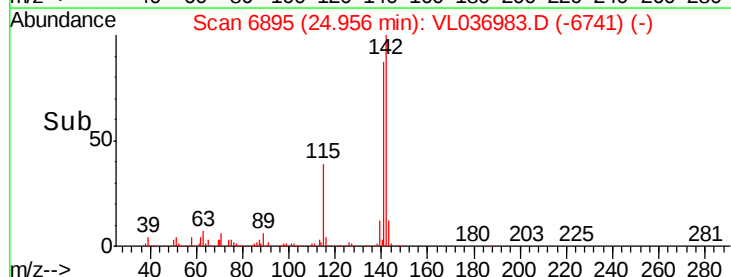
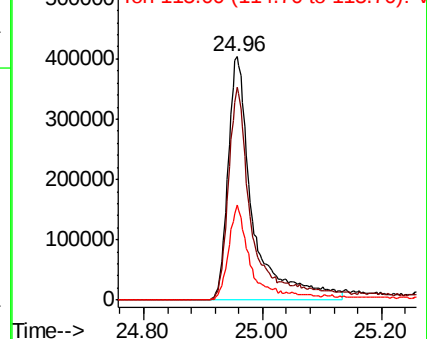
142 100

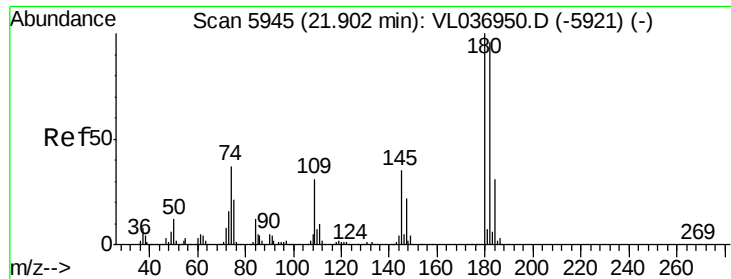
141 86.0 69.3 103.9

115 35.8 29.1 43.7



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V

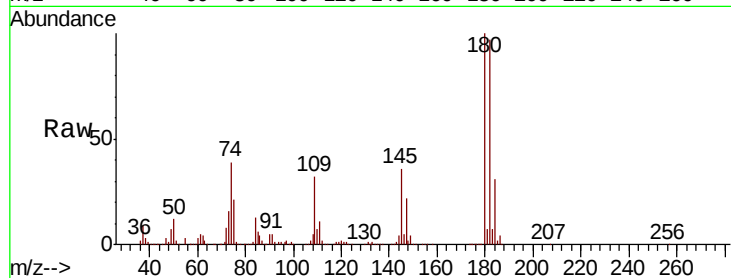




#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.106 ppbv  
 RT: 21.90 min Scan# 5945  
 Delta R.T. -0.00 min  
 Lab File: VL036983.D  
 Acq: 19 May 2021 00:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:180 Resp: 2235465  
 Ion Ratio Lower Upper  
 180 100  
 182 101.8 81.7 122.5  
 184 31.5 24.9 37.3



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V

