

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052521\  
 Data File : VL037058.D  
 Acq On : 25 May 2021 13:22  
 Operator : SY/AP  
 Sample : M2262-15 0.45  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

Quant Time: May 26 01:11:18 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   | 1113795  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 3347017  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3042723  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2128166  | 9.31     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 93.10% |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.02 | 85   | 123641   | 0.654 | ppbv   | 97     |
| 3) Chlorodifluoromethane       | 2.97 | 51   | 129020   | 0.632 | ppbv   | 94     |
| 4) Chloromethane               | 3.13 | 50   | 14882    | 0.214 | ppbv # | 84     |
| 5) Vinyl Chloride              | 3.24 | 62   | 41808    | 0.551 | ppbv   | 96     |
| 6) Bromomethane                | 3.46 | 94   | 16279    | 0.407 | ppbv # | 67     |
| 7) Chloroethane                | 3.54 | 64   | 6988     | 0.284 | ppbv   | 91     |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85   | 110645   | 0.624 | ppbv   | 96     |
| 9) Propene                     | 2.99 | 41   | 40297    | 0.552 | ppbv   | 93     |
| 10) Heptane                    | 8.10 | 43   | 47139    | 0.259 | ppbv # | 30     |
| 11) Trichlorofluoromethane     | 3.93 | 101  | 57671    | 0.330 | ppbv   | 92     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101  | 78999    | 0.634 | ppbv   | 95     |
| 13) Ethanol                    | 3.61 | 45   | 2620     | 0.269 | ppbv # | 35     |
| 14) Bromoethene                | 3.73 | 108  | 12107    | 0.221 | ppbv # | 1      |
| 15) Acetone                    | 3.86 | 43   | 69919    | 0.613 | ppbv # | 65     |
| 16) 1,3-Butadiene              | 3.31 | 39   | 15718    | 0.222 | ppbv # | 1      |
| 18) 1,1-Dichloroethene         | 4.27 | 96   | 17909    | 0.311 | ppbv   | 90     |
| 20) Methylene Chloride         | 4.33 | 84   | 49991    | 0.817 | ppbv   | 96     |
| 21) Allyl Chloride             | 4.40 | 41   | 43465    | 0.505 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96   | 14800    | 0.268 | ppbv # | 69     |
| 23) Vinyl Acetate              | 5.07 | 43   | 59151    | 0.327 | ppbv # | 92     |
| 24) 1,1-Dichloroethane         | 4.99 | 63   | 64620    | 0.496 | ppbv # | 94     |
| 25) Ethyl Acetate              | 5.67 | 43   | 135004   | 0.492 | ppbv # | 97     |
| 26) Hexane                     | 5.66 | 57   | 76305    | 0.545 | ppbv   | 91     |
| 27) Carbon Disulfide           | 4.53 | 76   | 52397    | 0.371 | ppbv # | 94     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73   | 69212    | 0.412 | ppbv   | 97     |
| 29) Chloroform                 | 5.74 | 83   | 115262   | 0.583 | ppbv   | 95     |
| 30) Cyclohexane                | 7.10 | 84   | 55625    | 0.467 | ppbv # | 91     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61   | 62820    | 0.500 | ppbv # | 86     |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97   | 106097   | 0.499 | ppbv   | 95     |
| 34) 2-Butanone                 | 5.26 | 43   | 43365    | 0.356 | ppbv # | 75     |
| 35) Carbon Tetrachloride       | 7.00 | 117  | 110807   | 0.498 | ppbv   | 92     |
| 36) Benzene                    | 6.87 | 78   | 148637   | 0.516 | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 60192    | 0.421 | ppbv # | 80     |
| 38) Trichloroethene            | 7.81 | 130  | 60786    | 0.493 | ppbv   | 87     |
| 39) 1,2-Dichloropropane        | 7.59 | 63   | 52070    | 0.469 | ppbv # | 83     |
| 41) Tetrahydrofuran            | 6.06 | 42   | 7450     | 0.107 | ppbv # | 36     |
| 42) Bromodichloromethane       | 7.77 | 83   | 53528    | 0.248 | ppbv # | 91     |
| 43) Methyl Methacrylate        | 8.01 | 69   | 37333    | 0.376 | ppbv   | 81     |
| 44) 2,2,4-Trimethylpentane     | 7.85 | 57   | 152415   | 0.308 | ppbv # | 58     |
| 46) cis-1,3-Dichloropropene    | 8.69 | 75   | 38379    | 0.376 | ppbv   | 89     |
| 47) 1,1,2-Trichloroethane      | 9.46 | 97   | 62768    | 0.540 | ppbv   | 95     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052521\  
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 Operator : SY/AP  
 Sample : M2262-15 0.45  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

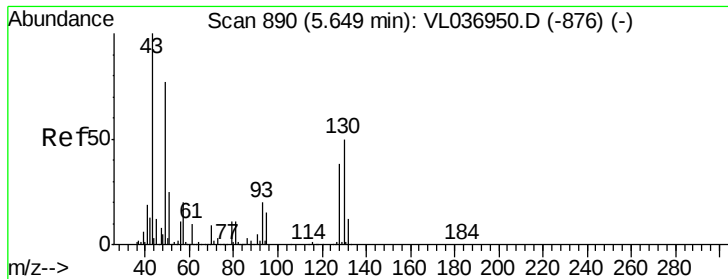
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

Quant Time: May 26 01:11:18 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) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| -----                         |       |      |          |       |       |          |
| 48) Dibromochloromethane      | 10.28 | 129  | 32127    | 0.171 | ppbv  | # 10     |
| 49) Bromoform                 | 13.01 | 173  | 25818    | 0.166 | ppbv  | # 27     |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 29610    | 0.147 | ppbv  | # 38     |
| 51) 2-Hexanone                | 10.14 | 43   | 14559    | 0.137 | ppbv  | # 27     |
| 52) Tetrachloroethene         | 11.20 | 164  | 34545    | 0.301 | ppbv  | 94       |
| 53) Toluene                   | 9.78  | 91   | 154079   | 0.449 | ppbv  | 98       |
| 54) 1,2-Dibromoethane         | 10.59 | 107  | 77307    | 0.468 | ppbv  | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.10 | 131  | 67226    | 0.525 | ppbv  | # 1      |
| 57) Chlorobenzene             | 12.13 | 112  | 140073   | 0.594 | ppbv  | 94       |
| 58) Ethyl Benzene             | 12.69 | 91   | 219278   | 0.511 | ppbv  | 96       |
| 59) m/p-Xylene                | 12.98 | 91   | 165007   | 0.465 | ppbv  | # 16     |
| 60) o-Xylene                  | 13.67 | 91   | 181075   | 0.535 | ppbv  | 98       |
| 61) Styrene                   | 13.51 | 104  | 76959    | 0.403 | ppbv  | # 85     |
| 62) Isopropylbenzene          | 14.64 | 105  | 263890   | 0.542 | ppbv  | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83   | 127027   | 0.502 | ppbv  | 97       |
| 64) n-propylbenzene           | 15.55 | 120  | 24360    | 0.194 | ppbv  | # 1      |
| 65) tert-Butylbenzene         | 16.73 | 119  | 240463   | 0.548 | ppbv  | 95       |
| 66) Benzyl Chloride           | 16.97 | 91   | 2257     | 0.093 | ppbv  | # 1      |
| 67) sec-Butylbenzene          | 17.28 | 105  | 282767   | 0.472 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 248334   | 0.482 | ppbv  | 96       |
| 70) n-Butylbenzene            | 18.54 | 91   | 228218   | 0.467 | ppbv  | 98       |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 177876   | 0.506 | ppbv  | 98       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 98627    | 0.245 | ppbv  | # 56     |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 170288   | 0.451 | ppbv  | 91       |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 130543   | 0.335 | ppbv  | 97       |
| 75) 1,3-Dichlorobenzene       | 16.98 | 146  | 117956   | 0.495 | ppbv  | 90       |
| 76) 1,4-Dichlorobenzene       | 17.12 | 146  | 115686   | 0.480 | ppbv  | 91       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 113744   | 0.476 | ppbv  | 90       |
| 78) Hexachloro-1,3-Butadiene  | 23.35 | 225  | 62111    | 0.324 | ppbv  | # 29     |
| 79) Naphthalene               | 22.18 | 128  | 40060    | 0.131 | ppbv  | 97       |
| 80) Naphthalene,2-methyl-     | 24.99 | 142  | 5348     | 0.080 | ppbv  | # 41     |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 25944    | 0.139 | ppbv  | # 9      |
| -----                         |       |      |          |       |       |          |

(#) = 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: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

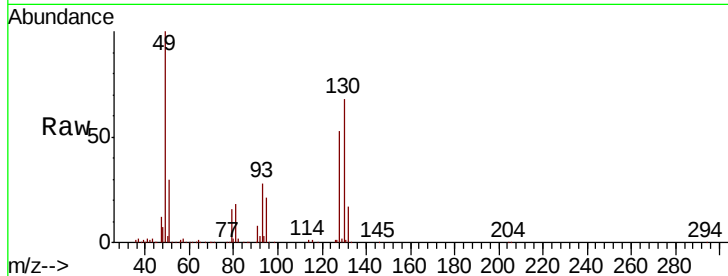
Tot Ion: 49 Resp: 1113795

Ion Ratio Lower Upper

49 100

128 57.5 26.9 80.7

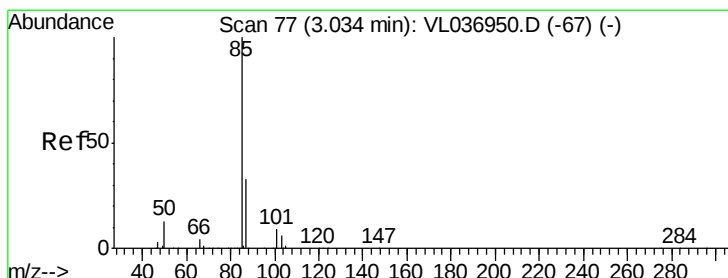
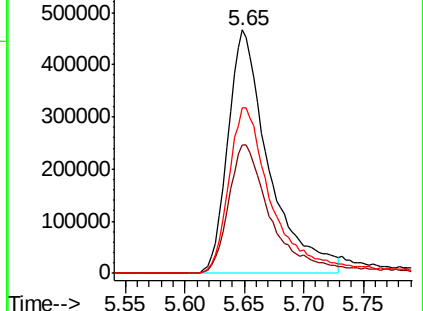
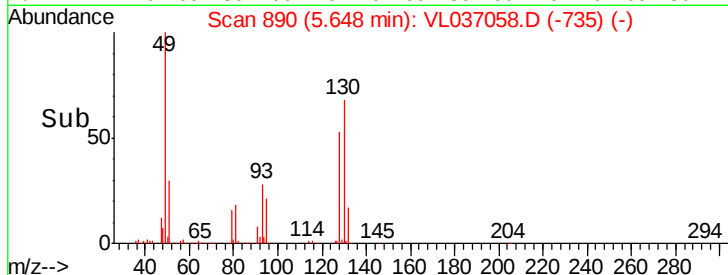
130 75.0 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.654 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.01 min

Lab File: VL037058.D

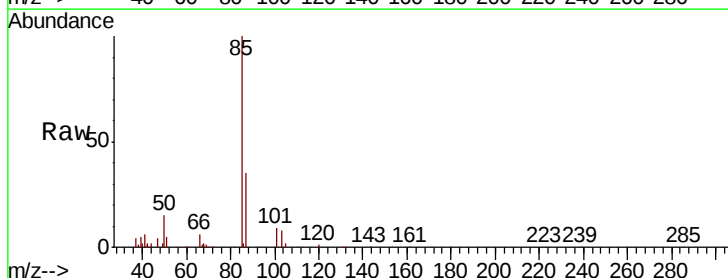
Acq: 25 May 2021 13:22

Tgt Ion: 85 Resp: 123641

Ion Ratio Lower Upper

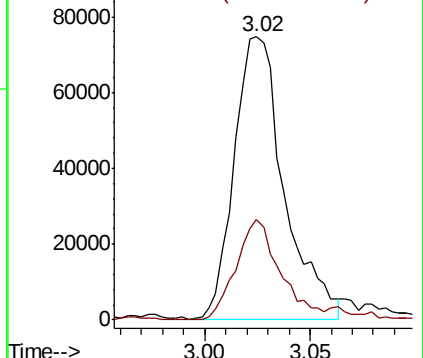
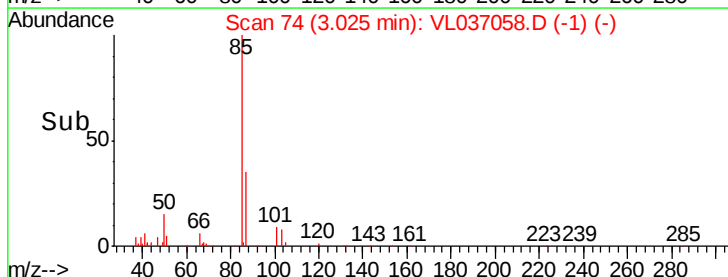
85 100

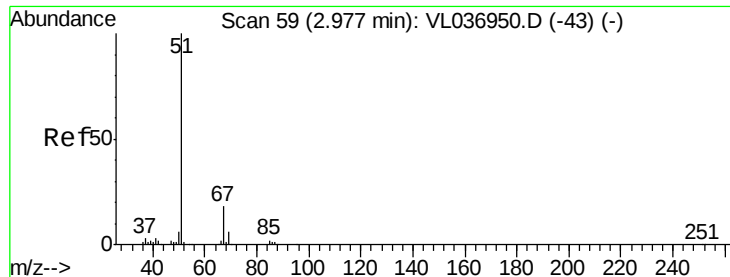
87 35.0 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.632 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

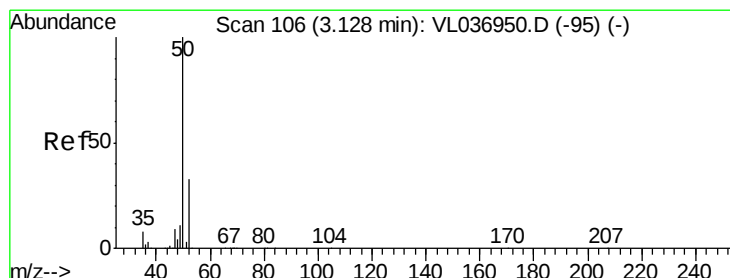
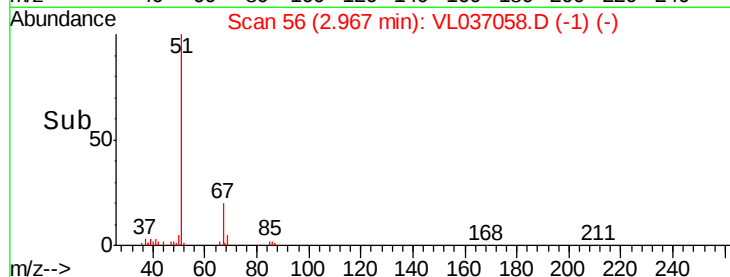
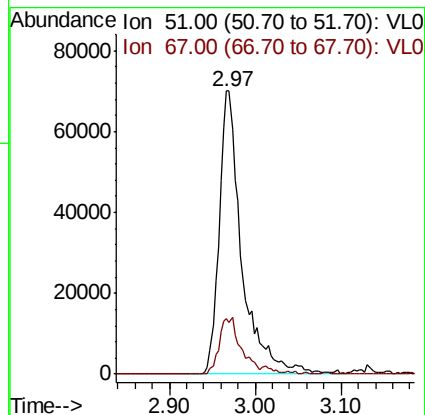
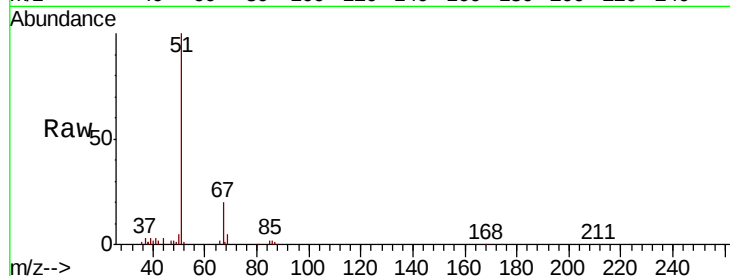
MDL-AIR-03-QT2-2021

Tot Ion: 51 Resp: 129020

Ion Ratio Lower Upper

51 100

67 20.9 14.6 21.8



#4

Chloromethane

Concen: 0.214 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL037058.D

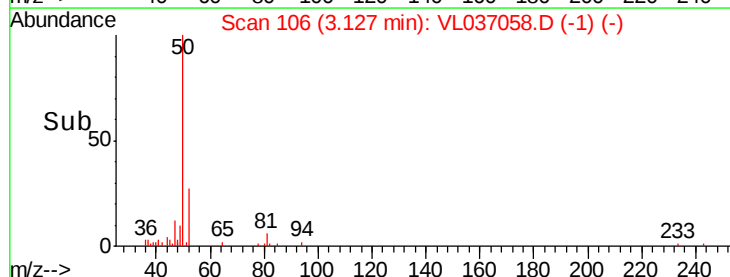
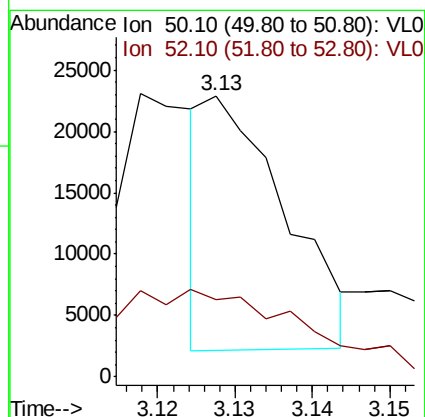
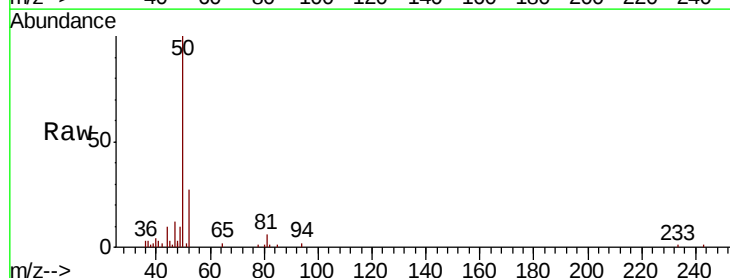
Acq: 25 May 2021 13:22

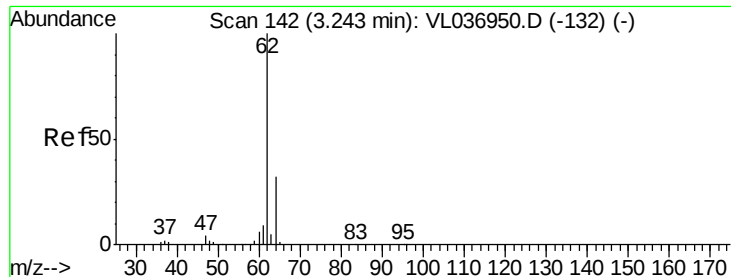
Tgt Ion: 50 Resp: 14882

Ion Ratio Lower Upper

50 100

52 23.7 26.1 39.1#





#5

Vinyl Chloride

Concen: 0.551 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

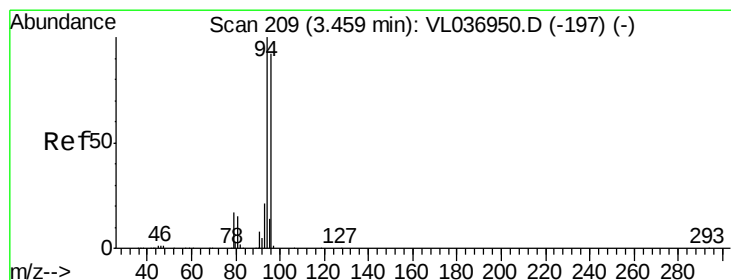
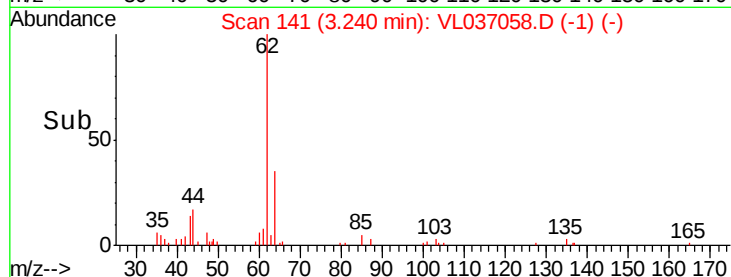
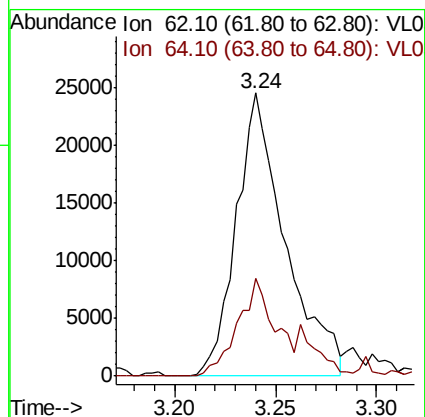
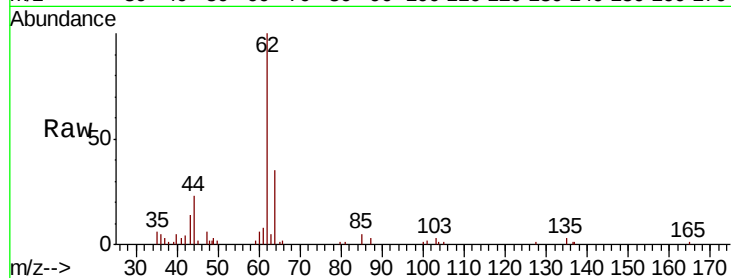
MDL-AIR-03-QT2-2021

Tot Ion: 62 Resp: 41808

Ion Ratio Lower Upper

62 100

64 34.5 25.9 38.9



#6

Bromomethane

Concen: 0.407 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL037058.D

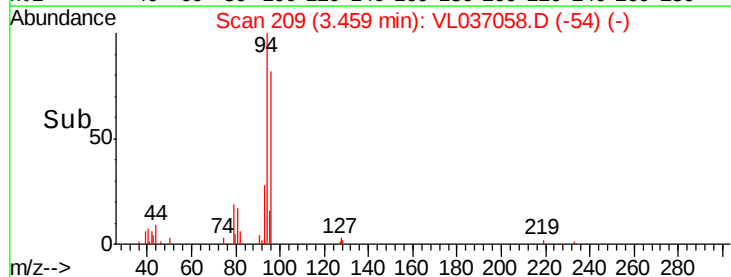
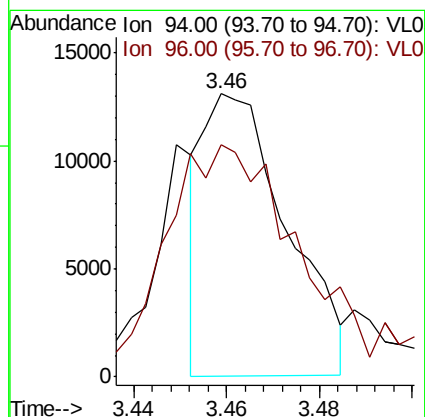
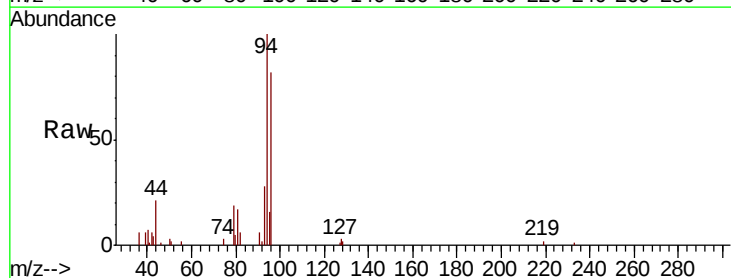
Acq: 25 May 2021 13:22

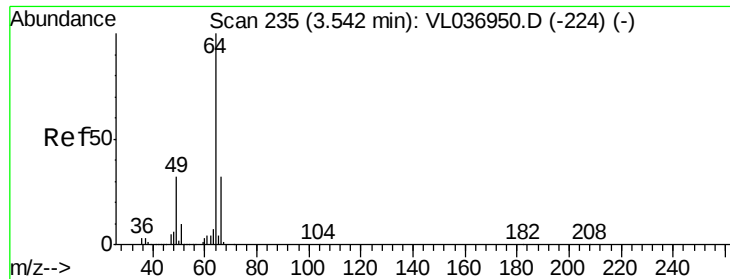
Tgt Ion: 94 Resp: 16279

Ion Ratio Lower Upper

94 100

96 61.2 74.0 111.0#





#7

Chloroethane

Concen: 0.284 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

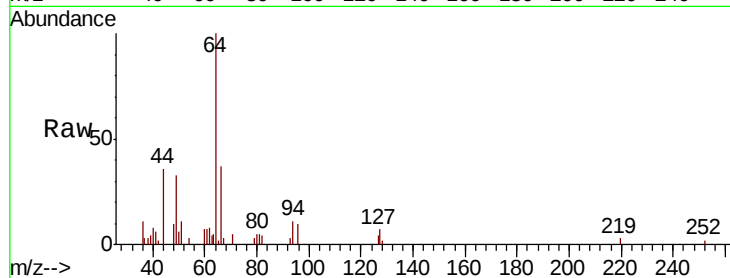
MDL-AIR-03-QT2-2021

Tot Ion: 64 Resp: 6988

Ion Ratio Lower Upper

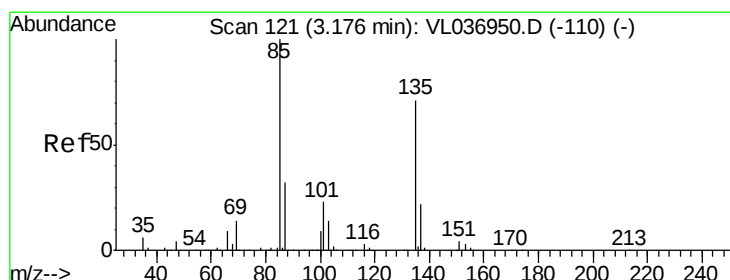
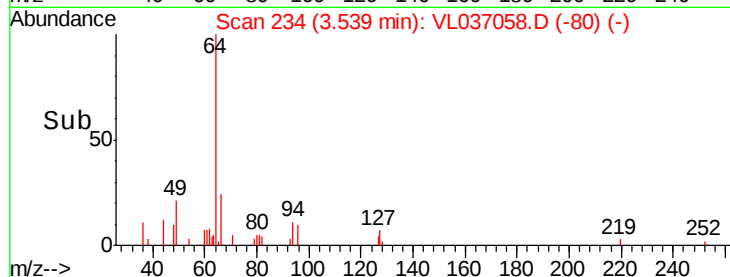
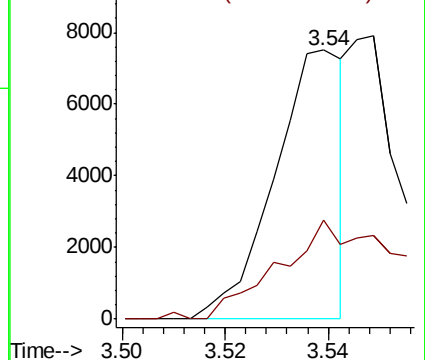
64 100

66 36.6 25.4 38.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.624 ppbv

RT: 3.17 min Scan# 118

Delta R.T. -0.01 min

Lab File: VL037058.D

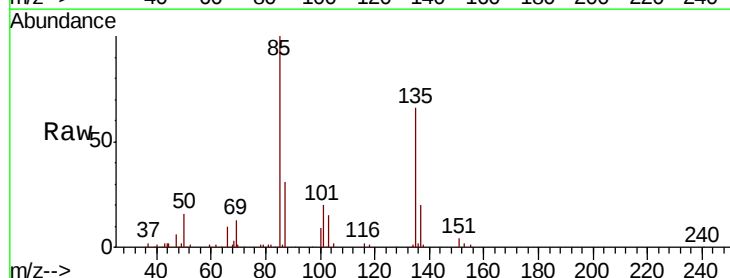
Acq: 25 May 2021 13:22

Tgt Ion: 85 Resp: 110645

Ion Ratio Lower Upper

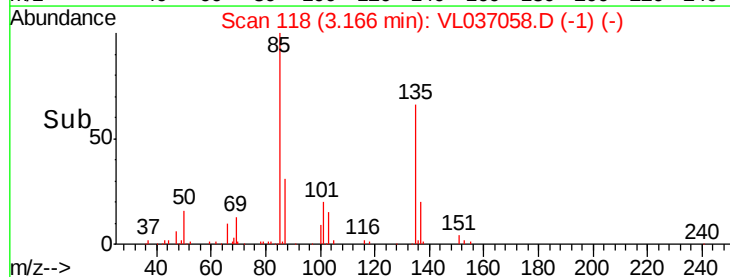
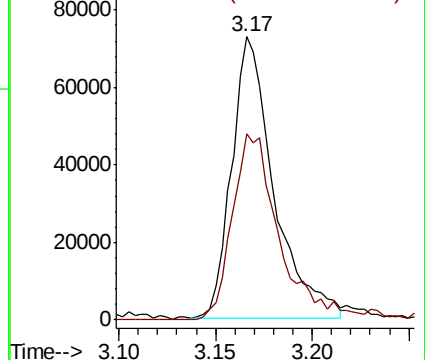
85 100

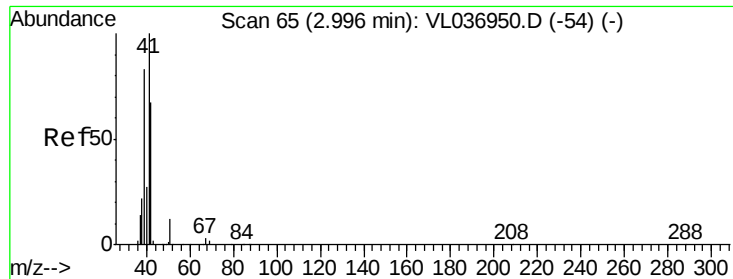
135 75.6 57.7 86.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.552 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

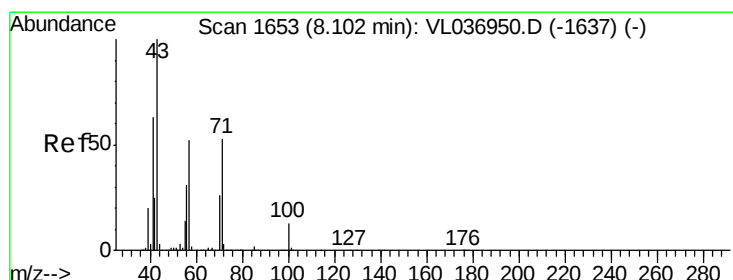
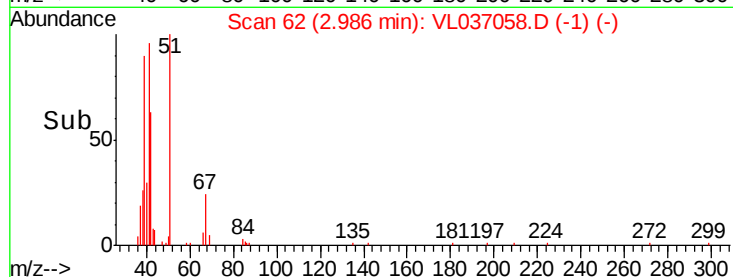
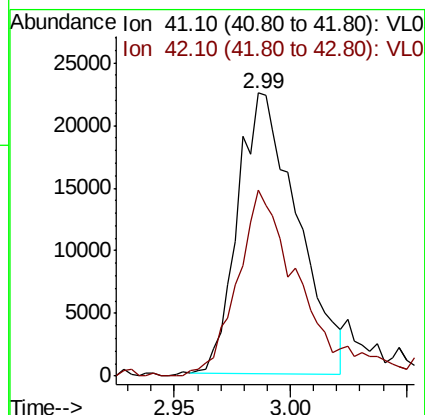
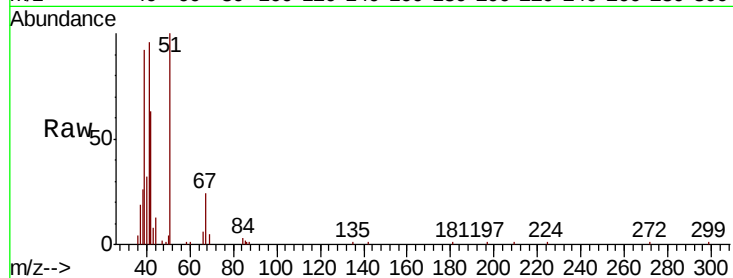
MDL-AIR-03-QT2-2021

Tot Ion: 41 Resp: 40297

Ion Ratio Lower Upper

41 100

42 73.0 53.9 80.9



#10

Heptane

Concen: 0.259 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL037058.D

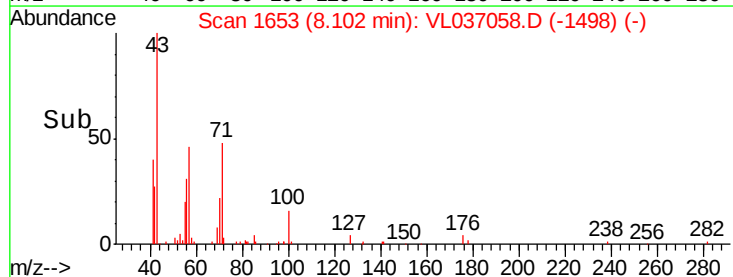
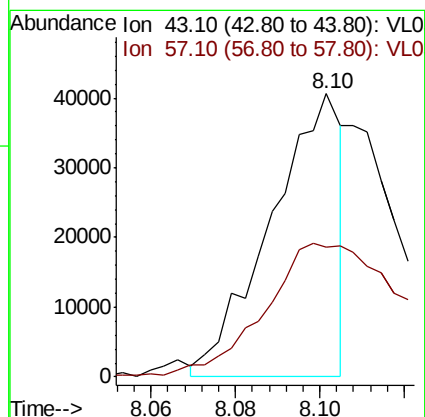
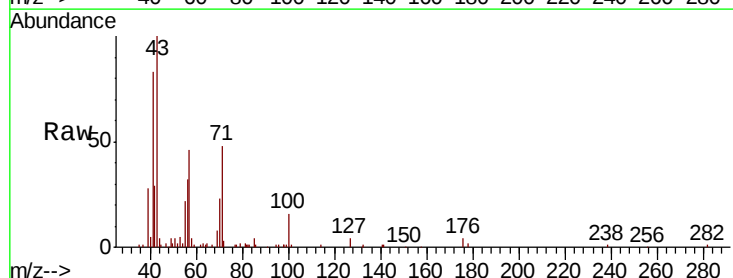
Acq: 25 May 2021 13:22

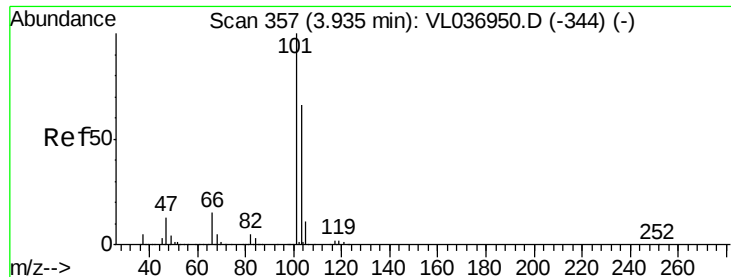
Tgt Ion: 43 Resp: 47139

Ion Ratio Lower Upper

43 100

57 99.9 41.0 61.6#





#11

Trichlorofluoromethane

Concen: 0.330 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

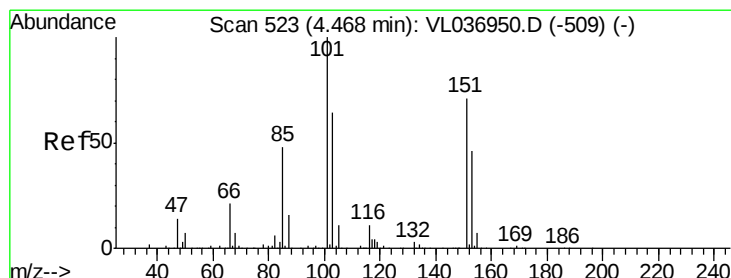
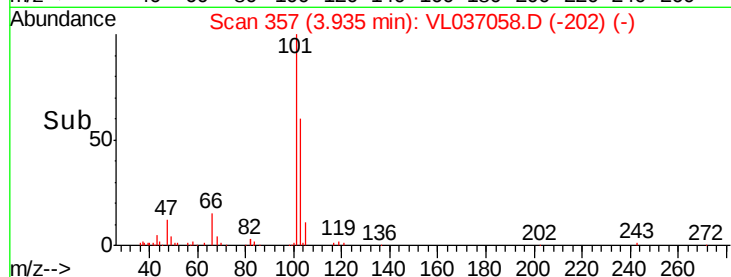
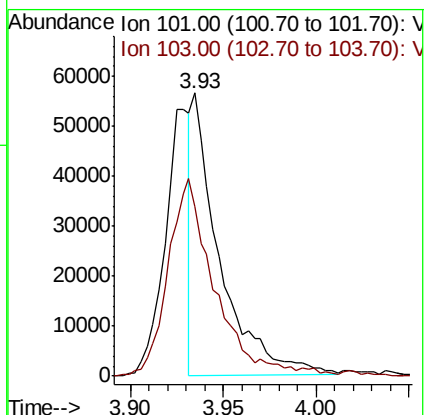
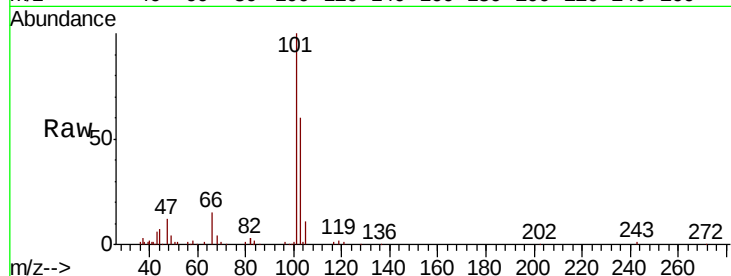
MDL-AIR-03-QT2-2021

Tot Ion:101 Resp: 57671

Ion Ratio Lower Upper

101 100

103 59.8 52.6 79.0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.634 ppbv

RT: 4.47 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL037058.D

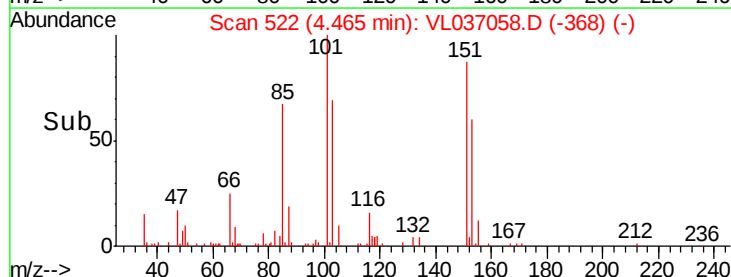
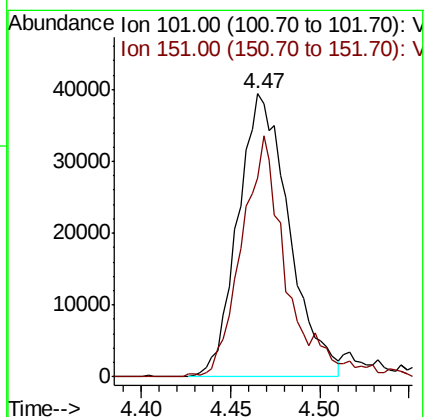
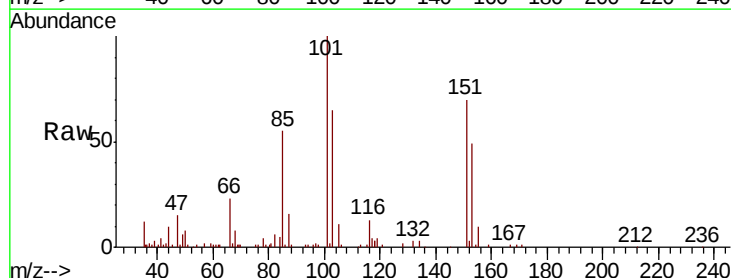
Acq: 25 May 2021 13:22

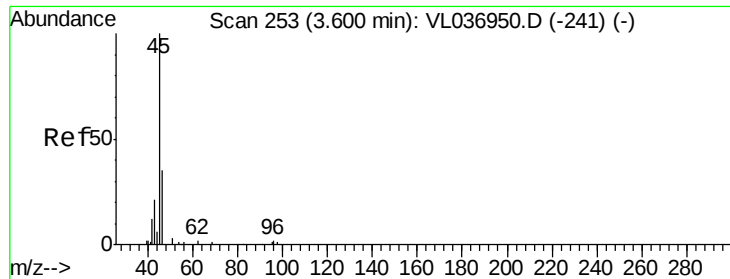
Tgt Ion:101 Resp: 78999

Ion Ratio Lower Upper

101 100

151 76.6 57.7 86.5





#13

Ethanol

Concen: 0.269 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

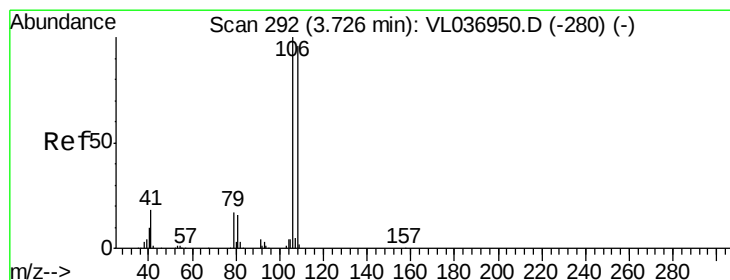
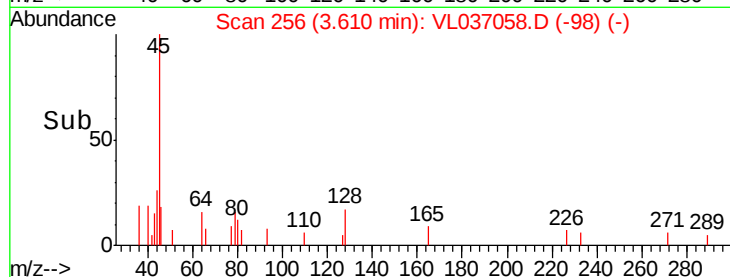
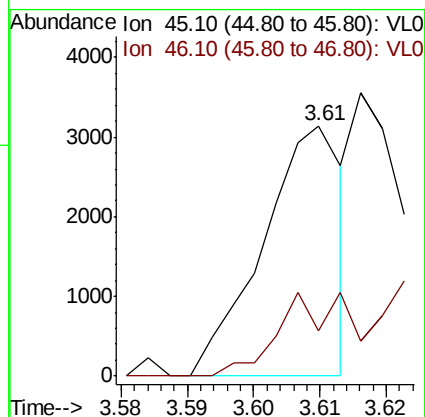
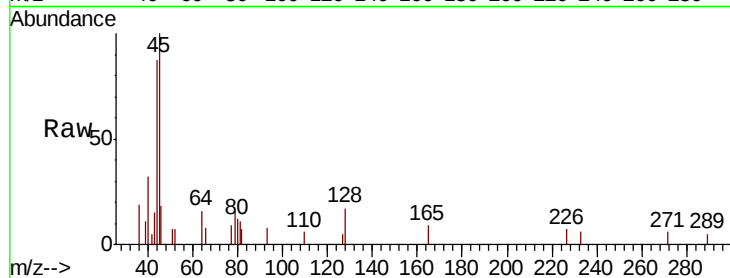
MDL-AIR-03-QT2-2021

Tot Ion: 45 Resp: 2620

Ion Ratio Lower Upper

45 100

46 0.0 16.3 65.3#



#14

Bromoethene

Concen: 0.221 ppbv

RT: 3.73 min Scan# 293

Delta R.T. 0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

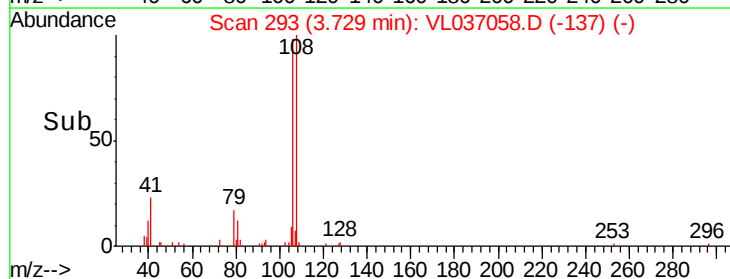
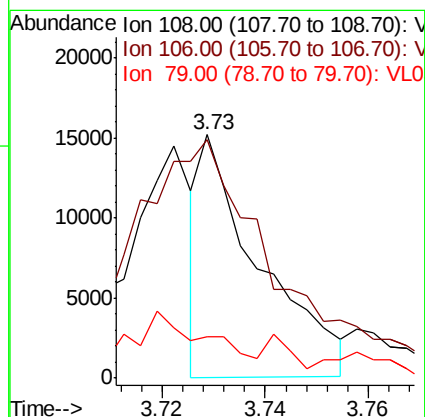
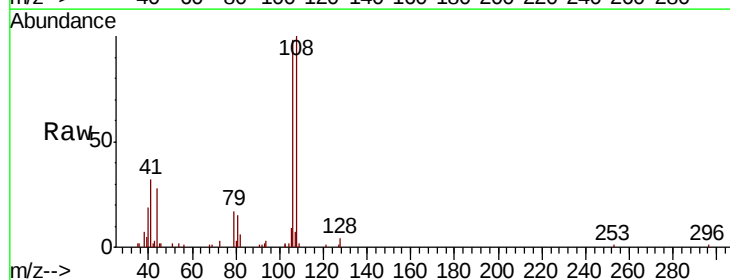
Tgt Ion: 108 Resp: 12107

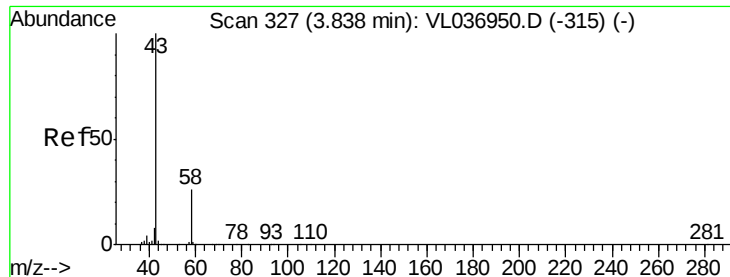
Ion Ratio Lower Upper

108 100

106 258.3 86.5 129.7#

79 0.0 15.0 22.4#





#15

Acetone

Concen: 0.613 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.03 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

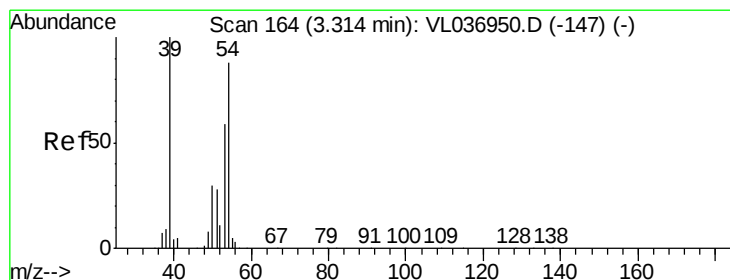
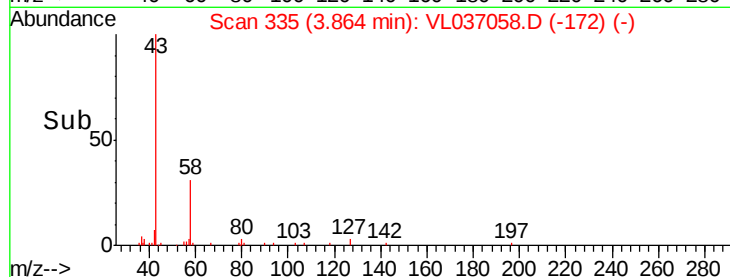
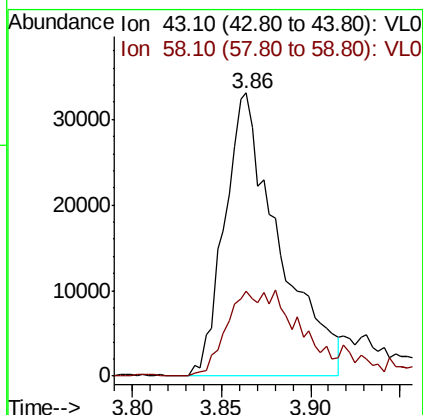
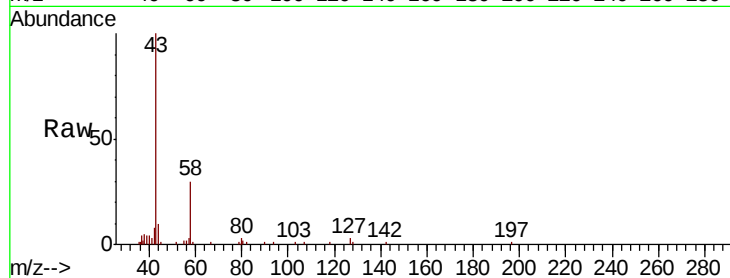
MDL-AIR-03-QT2-2021

Tot Ion: 43 Resp: 69919

Ion Ratio Lower Upper

43 100

58 49.1 24.0 36.0#



#16

1,3-Butadiene

Concen: 0.222 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.00 min

Lab File: VL037058.D

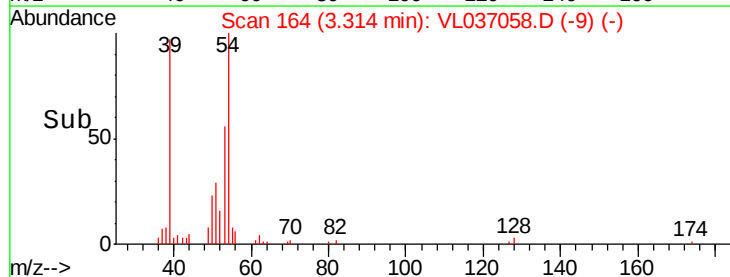
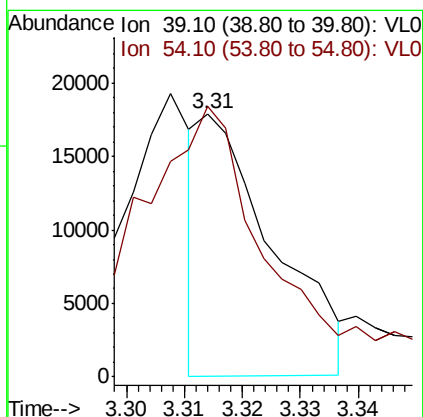
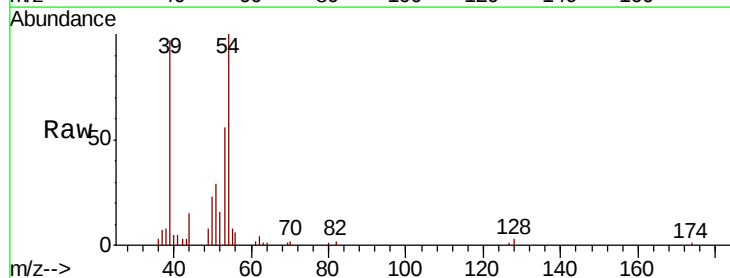
Acq: 25 May 2021 13:22

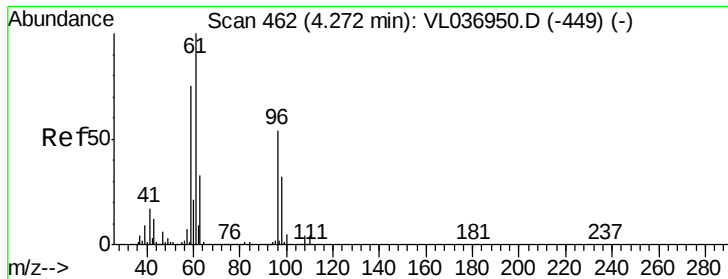
Tgt Ion: 39 Resp: 15718

Ion Ratio Lower Upper

39 100

54 211.6 63.2 94.8#





#18

1,1-Dichloroethene

Concen: 0.311 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

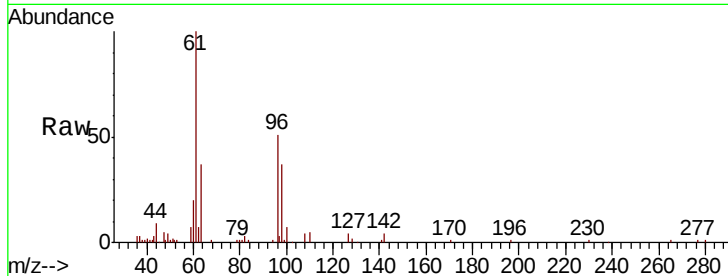
Tot Ion: 96 Resp: 17909

Ion Ratio Lower Upper

96 100

61 196.8 148.2 222.4

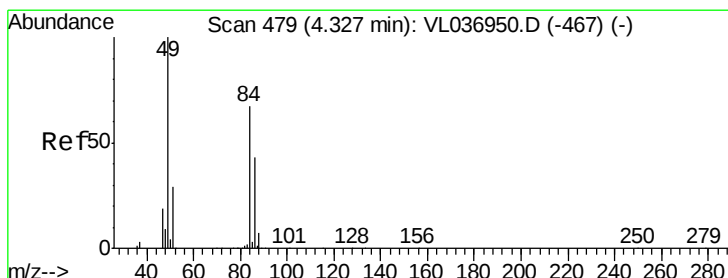
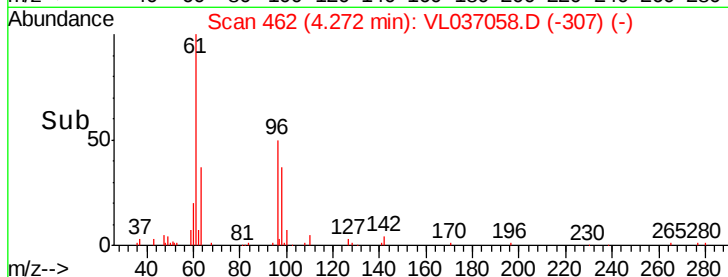
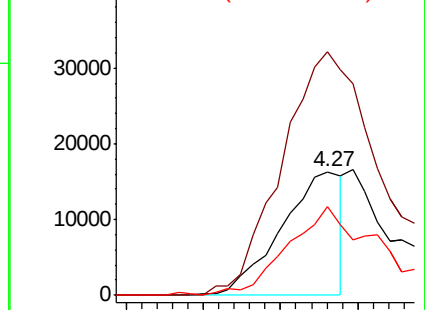
98 71.0 47.8 71.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#20

Methylene Chloride

Concen: 0.817 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Tgt Ion: 84 Resp: 49991

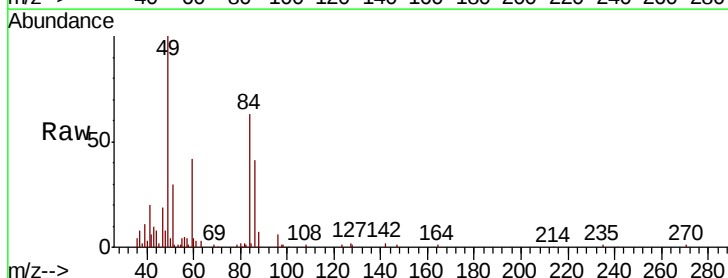
Ion Ratio Lower Upper

84 100

49 155.4 119.8 179.6

51 47.6 35.1 52.7

86 65.4 50.9 76.3

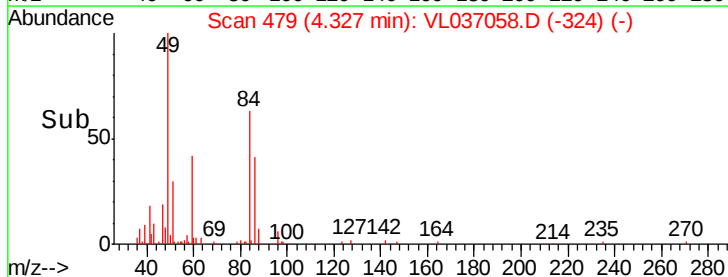
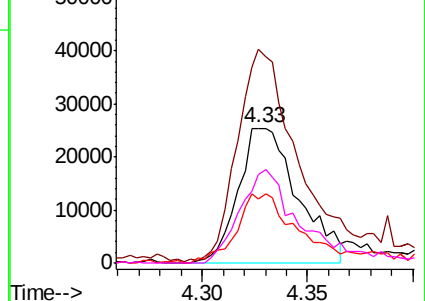


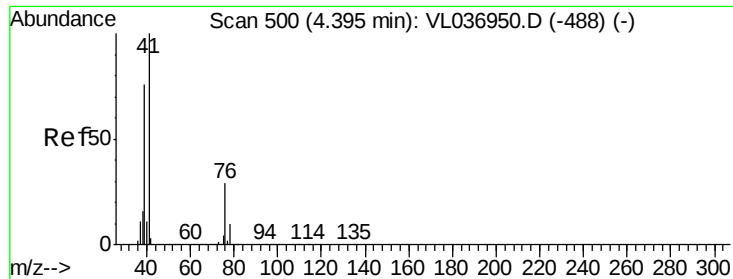
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

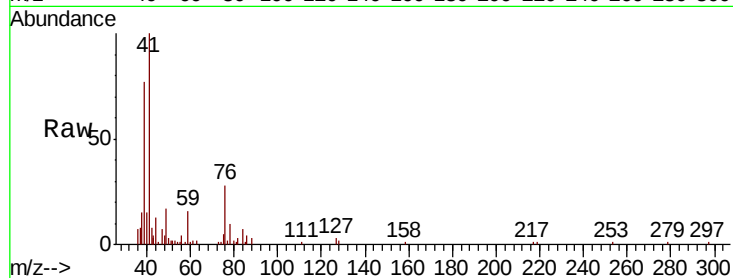




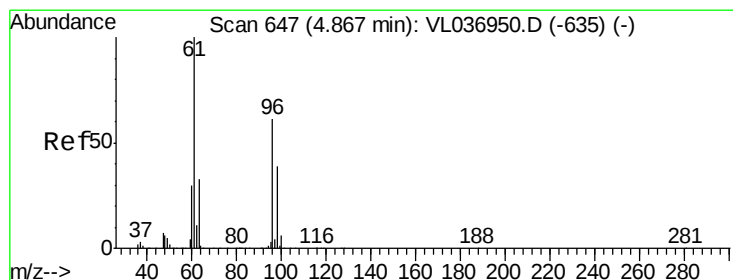
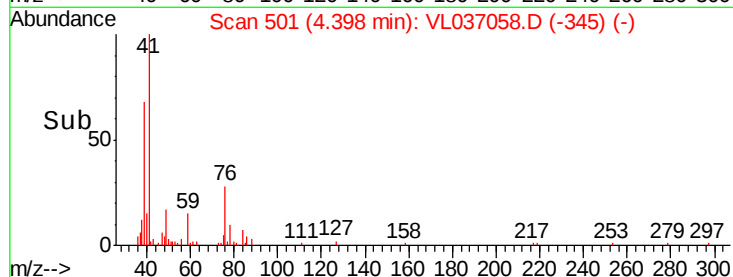
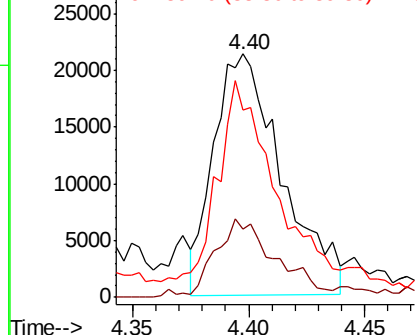
#21  
Allvl Chloride  
Concen: 0.505 ppbv  
RT: 4.40 min Scan# 501  
Delta R.T. 0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

Tot Ion: 41 Resp: 43465  
Ion Ratio Lower Upper  
41 100  
76 32.6 24.9 37.3  
39 80.3 63.7 95.5

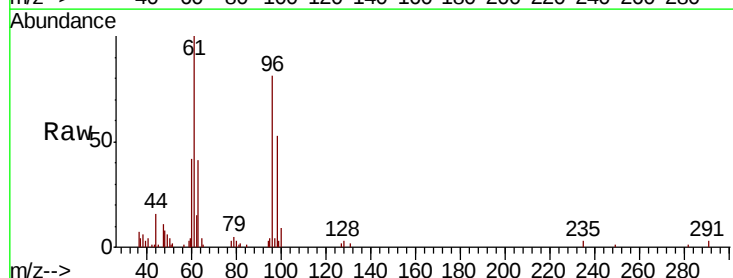


Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 76.10 (75.80 to 76.80): VL0  
Ion 39.10 (38.80 to 39.80): VL0

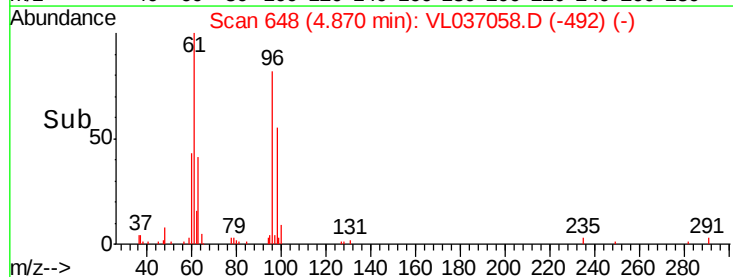
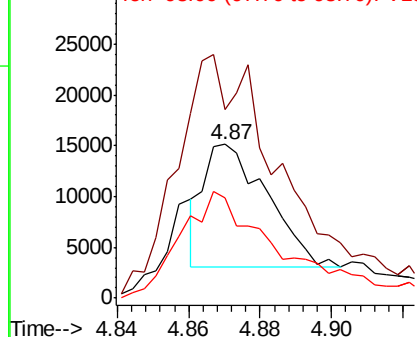


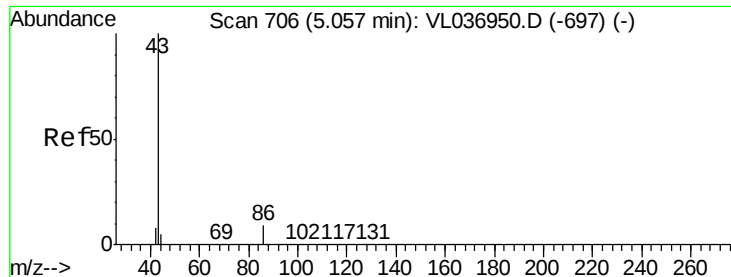
#22  
trans-1,2-Dichloroethene  
Concen: 0.268 ppbv  
RT: 4.87 min Scan# 648  
Delta R.T. 0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Tgt Ion: 96 Resp: 14800  
Ion Ratio Lower Upper  
96 100  
61 109.3 130.6 196.0#  
98 58.5 50.8 76.2



Abundance Ion 96.00 (95.70 to 96.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0

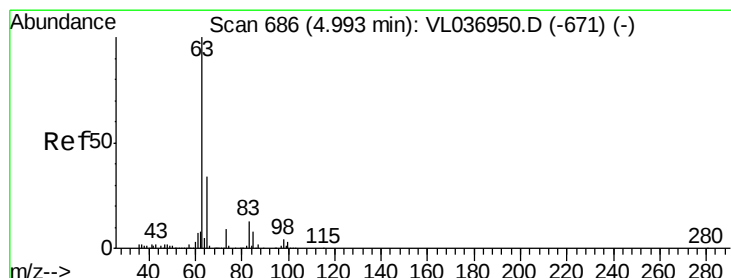
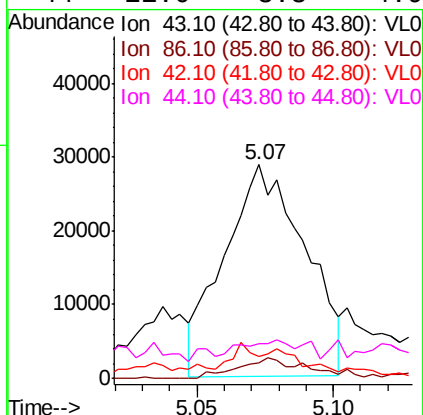
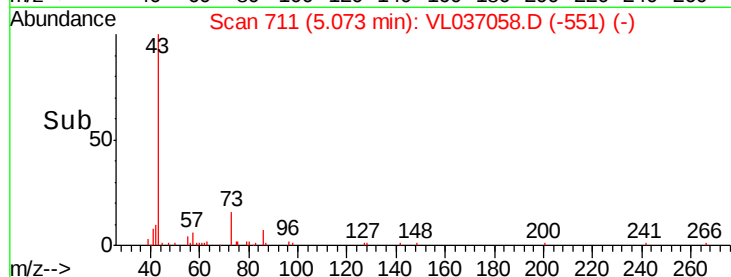
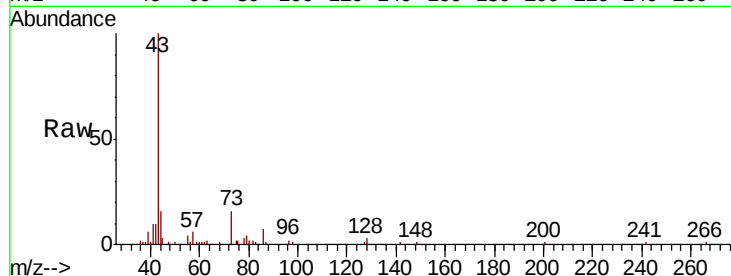




#23  
 Vinyl Acetate  
 Concen: 0.327 ppbv  
 RT: 5.07 min Scan# 711  
 Delta R.T. 0.02 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

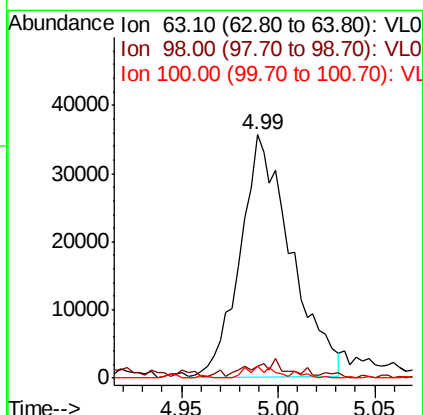
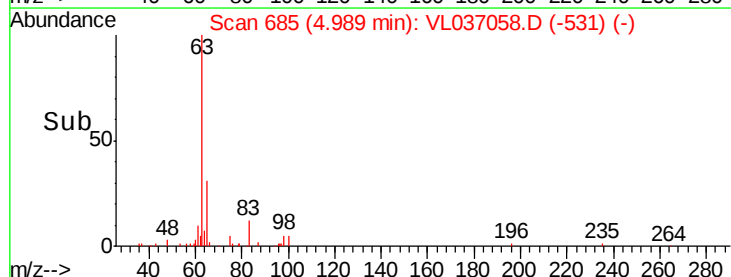
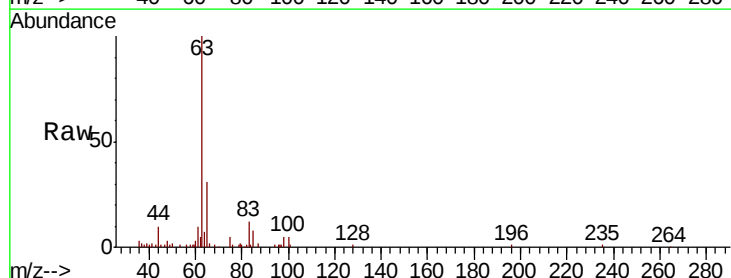
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

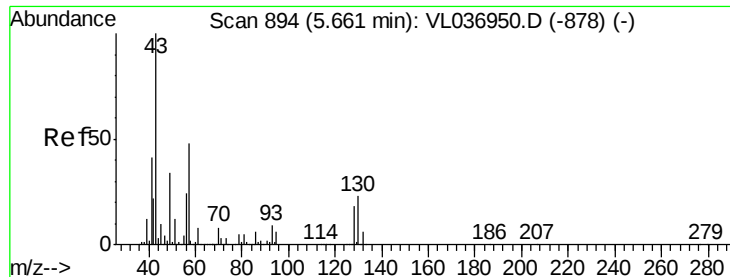
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 59151 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 10.1  | 5.8   | 8.8#  |
| 42       | 9.8   | 7.4   | 11.2  |
| 44       | 11.0  | 3.3   | 4.9#  |



#24  
 1,1-Dichloroethane  
 Concen: 0.496 ppbv  
 RT: 4.99 min Scan# 685  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 64620 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 2.7   | 2.3   | 6.9   |
| 100      | 4.8   | 1.4   | 4.0#  |

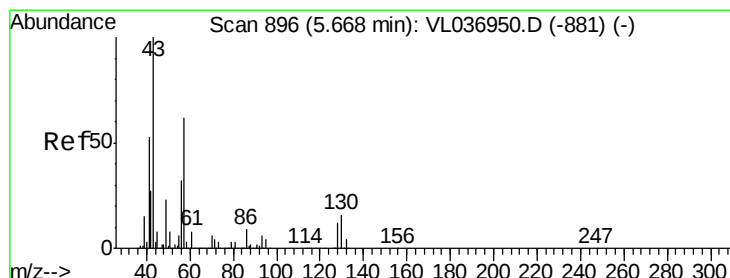
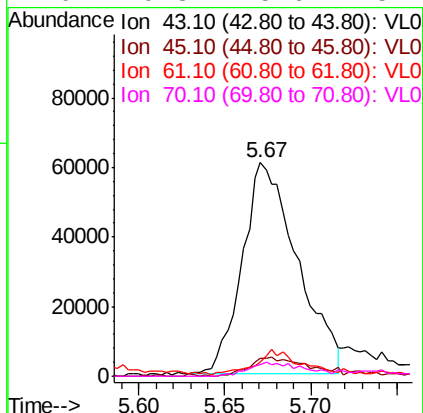
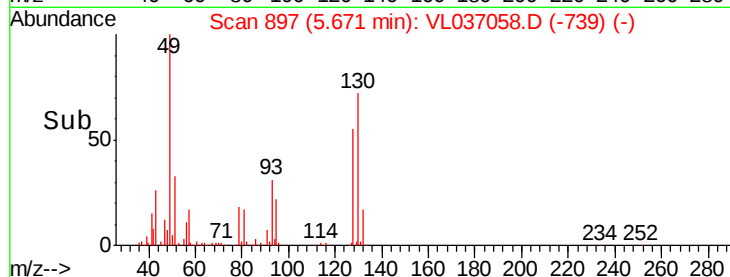
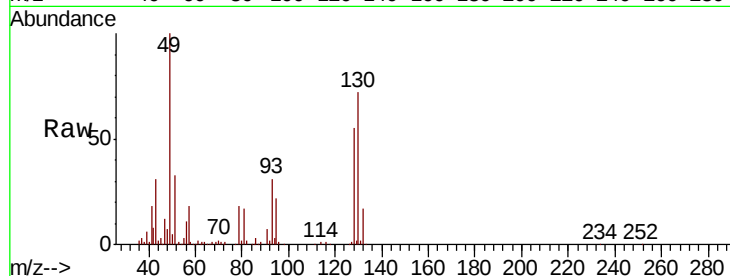




#25  
Ethyl Acetate  
Concen: 0.492 ppbv  
RT: 5.67 min Scan# 897  
Delta R.T. 0.01 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

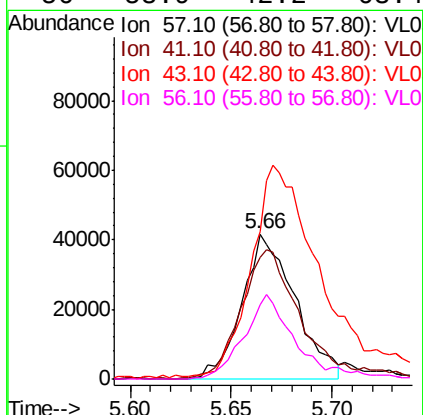
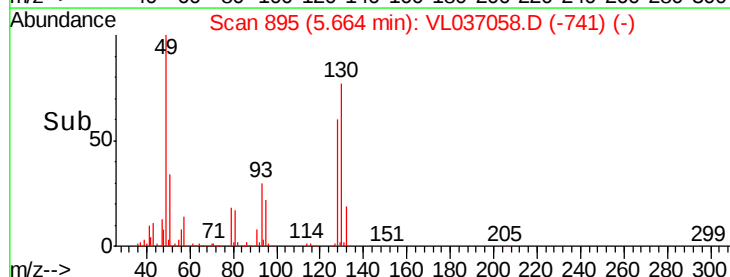
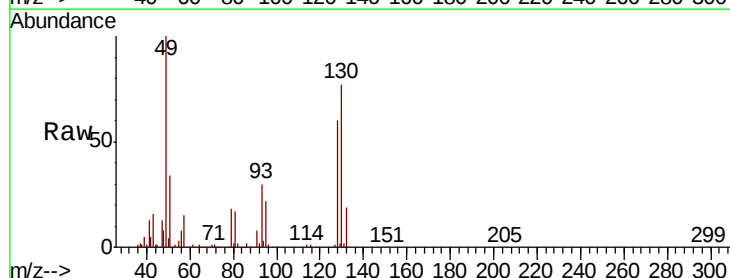
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

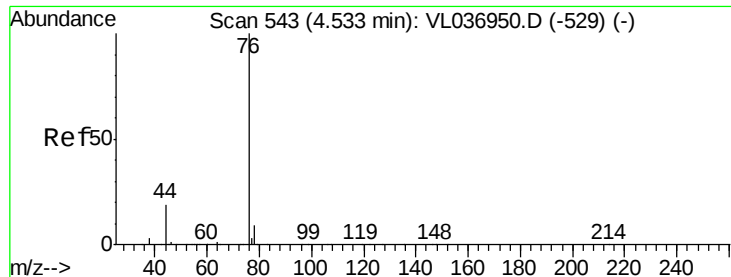
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 135004 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 9.8   | 7.8   | 11.8   |
| 61       | 10.9  | 7.8   | 11.8   |
| 70       | 9.3   | 5.6   | 8.4    |



#26  
Hexane  
Concen: 0.545 ppbv  
RT: 5.66 min Scan# 895  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 76305 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 105.4 | 70.5  | 105.7 |
| 43       | 214.1 | 165.8 | 248.8 |
| 56       | 58.9  | 42.2  | 63.4  |





#27

Carbon Disulfide

Concen: 0.371 ppbv

RT: 4.53 min Scan# 543

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

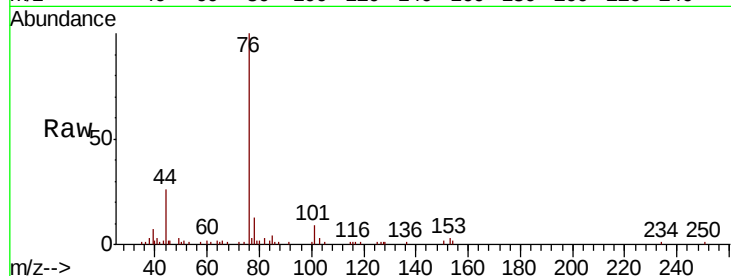
Tot Ion: 76 Resp: 52397

Ion Ratio Lower Upper

76 100

44 21.0 15.5 23.3

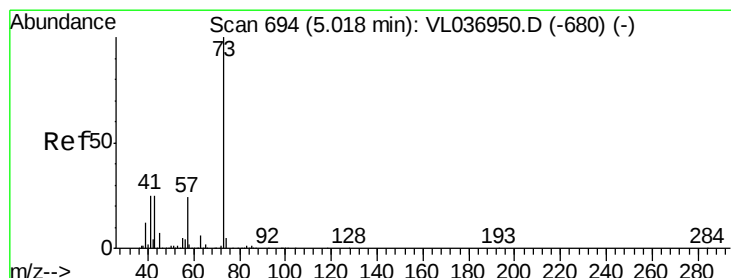
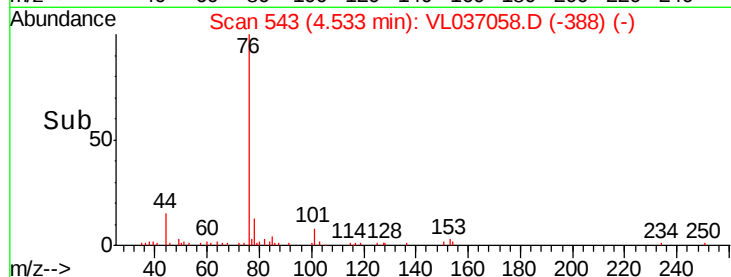
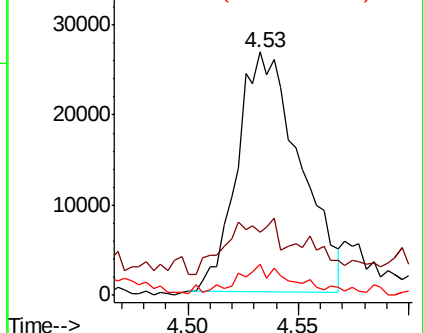
78 14.0 7.8 11.6#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.412 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.02 min

Lab File: VL037058.D

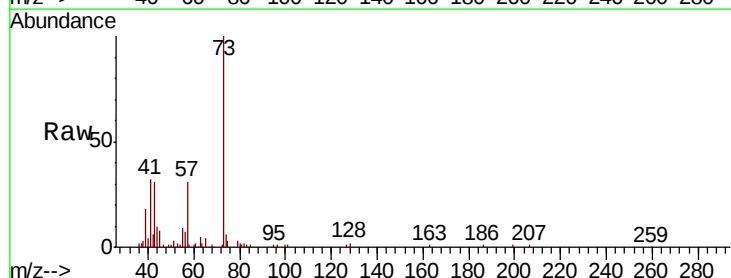
Acq: 25 May 2021 13:22

Tgt Ion: 73 Resp: 69212

Ion Ratio Lower Upper

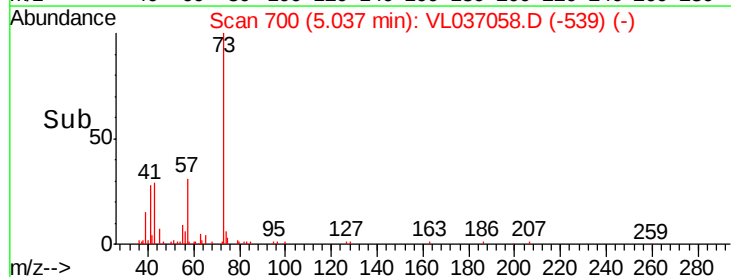
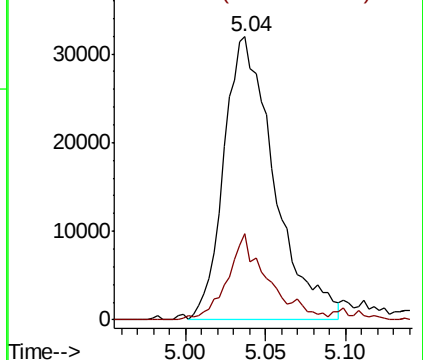
73 100

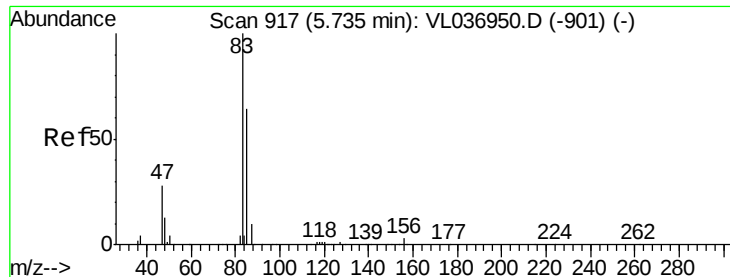
57 24.5 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.583 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

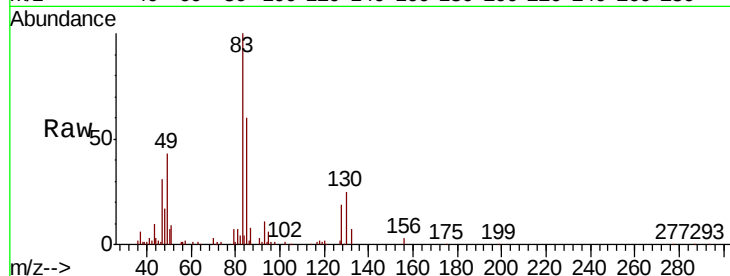
MDL-AIR-03-QT2-2021

Tot Ion: 83 Resp: 115262

Ion Ratio Lower Upper

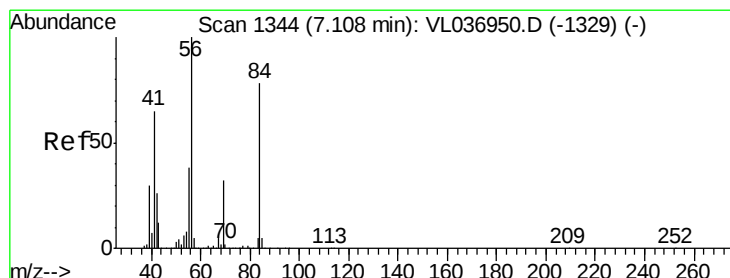
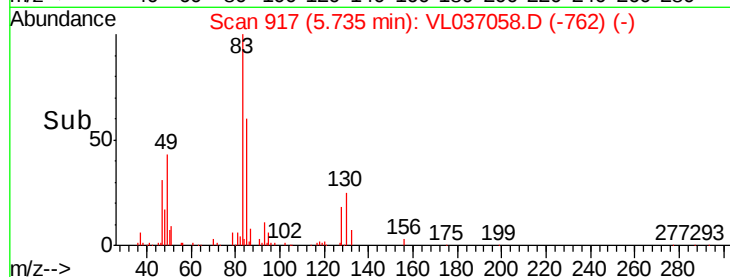
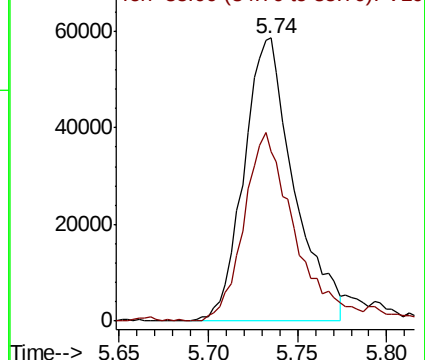
83 100

85 59.9 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: 0.467 ppbv

RT: 7.10 min Scan# 1343

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

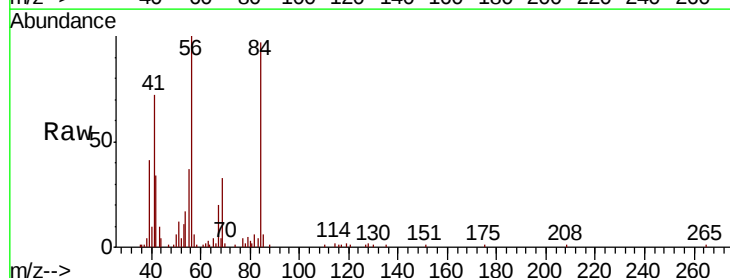
Tgt Ion: 84 Resp: 55625

Ion Ratio Lower Upper

84 100

56 137.6 107.9 161.9

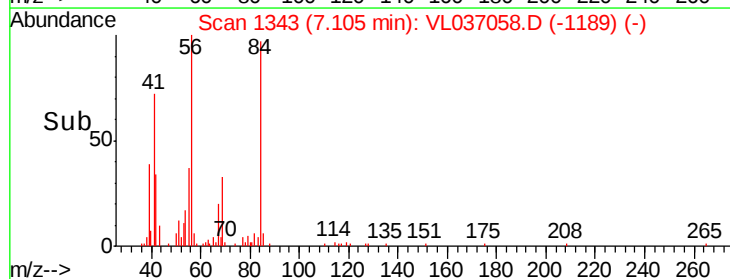
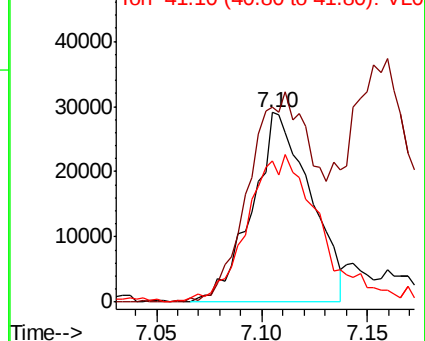
41 99.3 65.5 98.3#

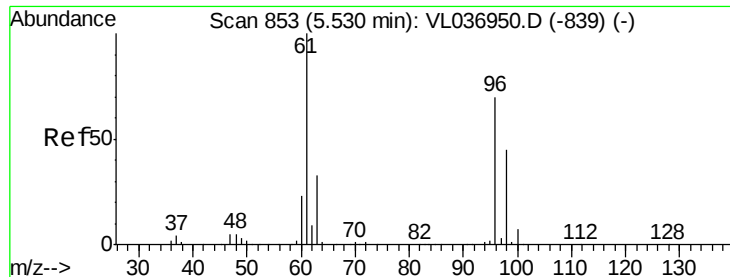


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



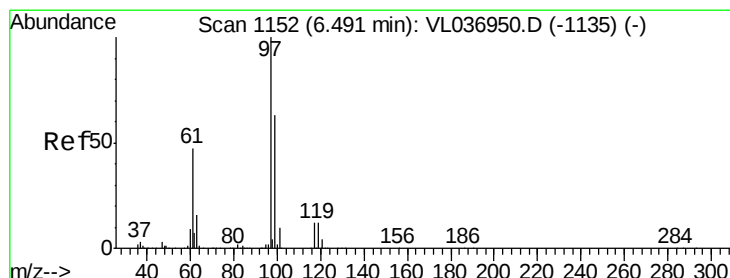
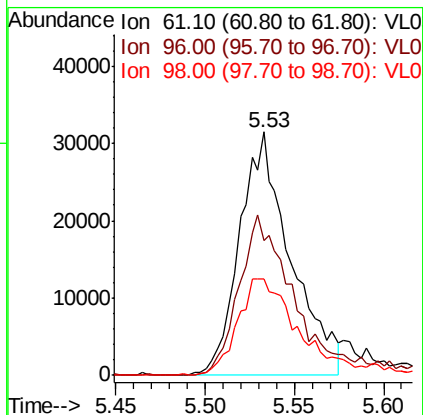
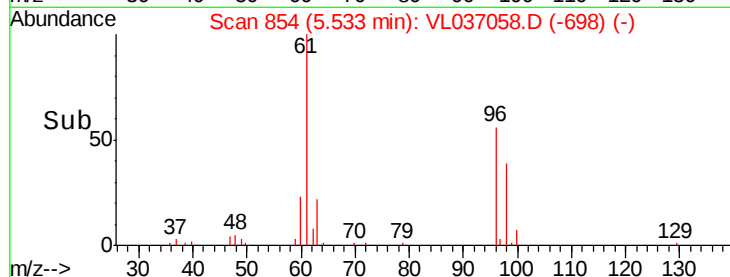
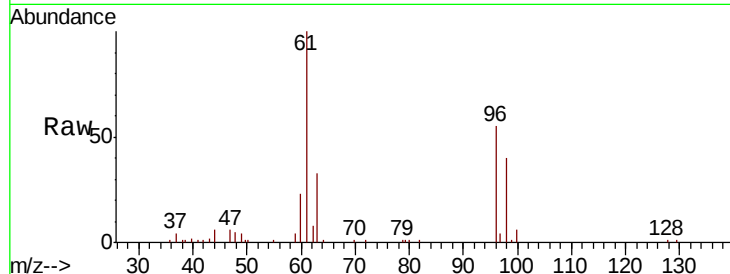


#31

cis-1,2-Dichloroethene  
Concen: 0.500 ppbv  
RT: 5.53 min Scan# 854  
Delta R.T. 0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

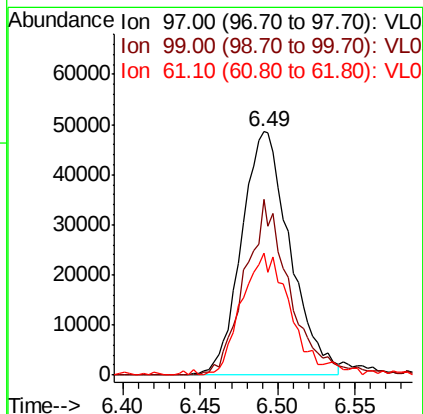
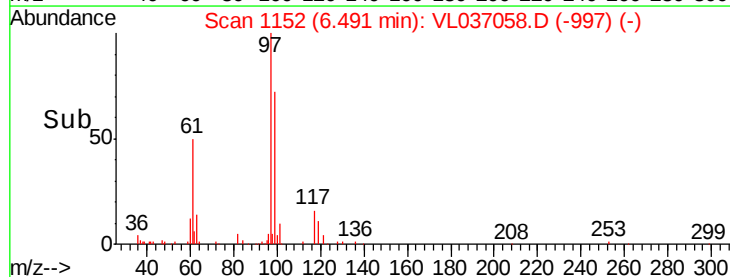
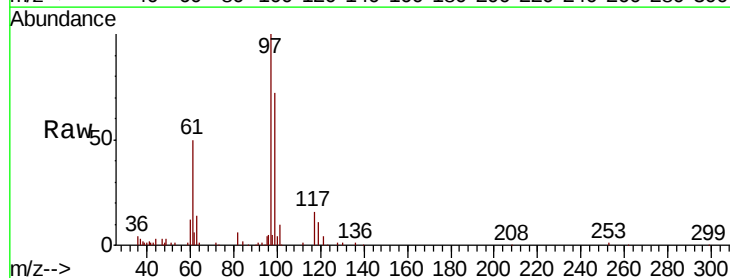
| Tot Ion   | 61    | Resp  | 62820 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 61        | 100   |       |       |
| 96        | 55.2  | 55.9  | 83.9# |
| 98        | 39.9  | 35.6  | 53.4  |

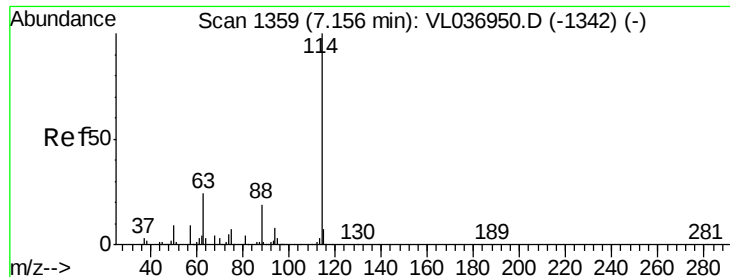


#32

1,1,1-Trichloroethane  
Concen: 0.499 ppbv  
RT: 6.49 min Scan# 1152  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

| Tgt Ion   | 97    | Resp  | 106097 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 67.7  | 51.9  | 77.9   |
| 61        | 52.2  | 37.6  | 56.4   |

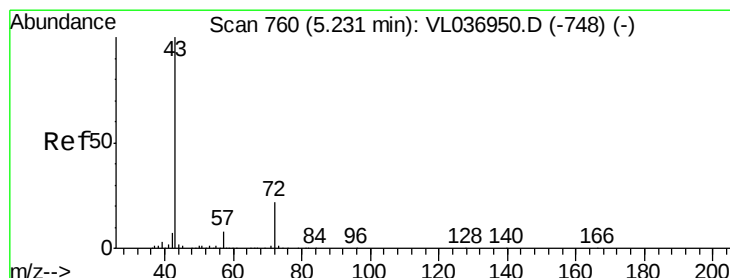
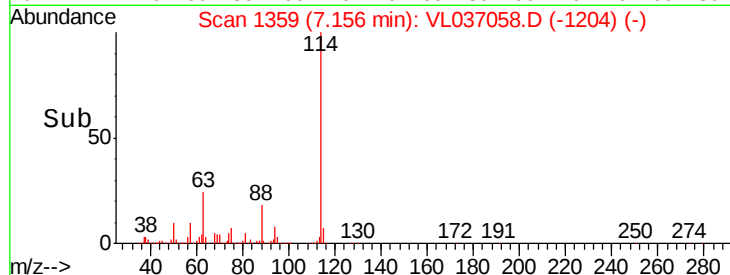
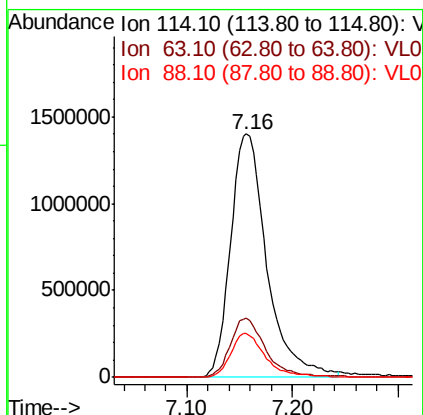
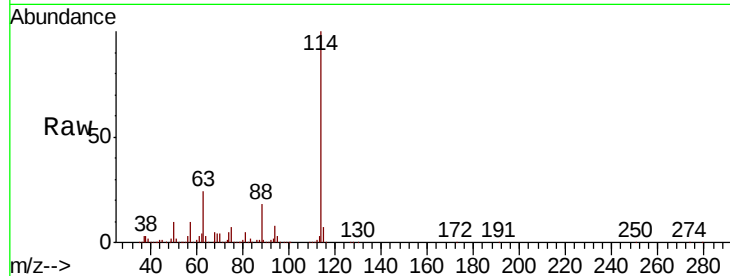




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1359  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

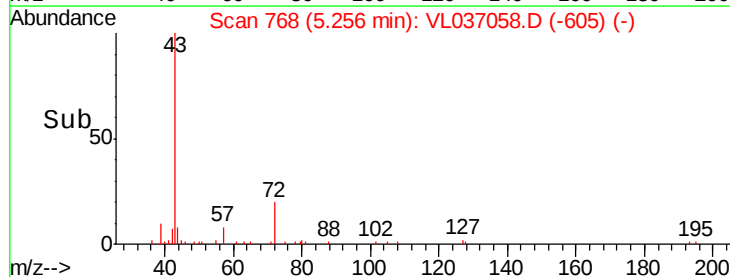
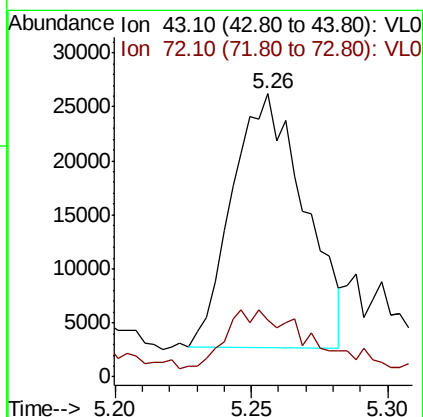
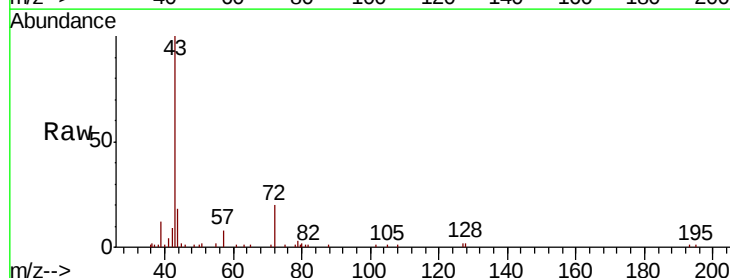
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

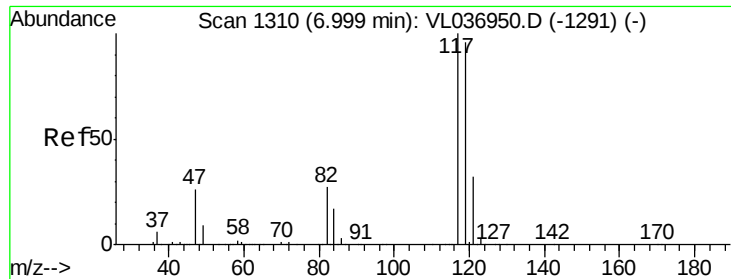
Tot Ion:114 Resp: 3347017  
 Ion Ratio Lower Upper  
 114 100  
 63 24.3 19.6 29.4  
 88 17.6 14.6 21.8



#34  
 2-Butanone  
 Concen: 0.356 ppbv  
 RT: 5.26 min Scan# 768  
 Delta R.T. 0.03 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Tgt Ion: 43 Resp: 43365  
 Ion Ratio Lower Upper  
 43 100  
 72 35.8 19.0 28.4#





#35

Carbon Tetrachloride

Concen: 0.498 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

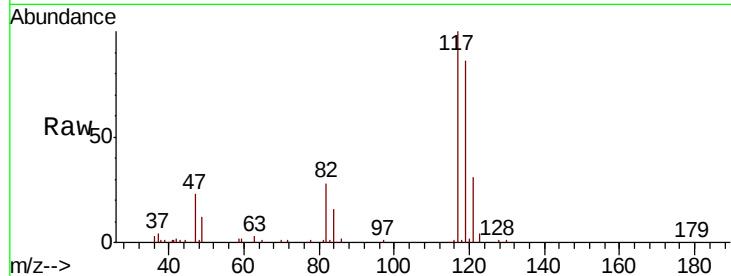
Tot Ion:117 Resp: 110807

Ion Ratio Lower Upper

117 100

119 86.2 76.6 114.8

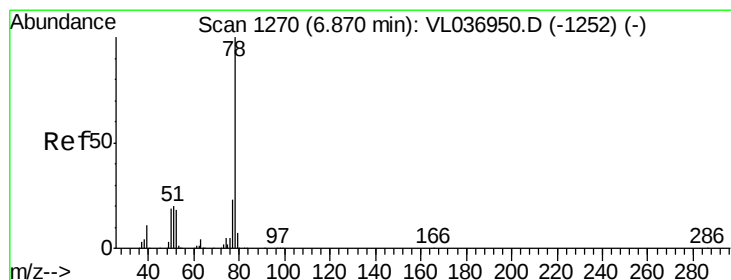
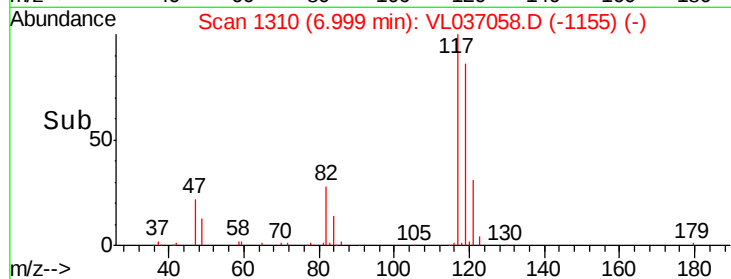
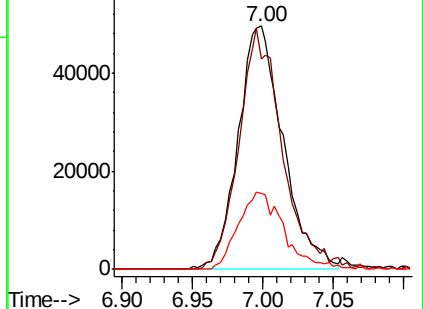
121 31.3 25.8 38.6



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: 0.516 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

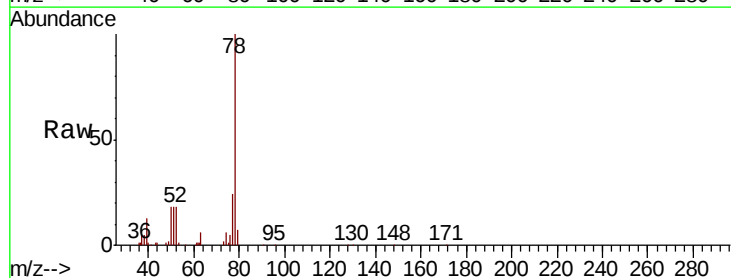
Tgt Ion: 78 Resp: 148637

Ion Ratio Lower Upper

78 100

77 23.5 18.6 28.0

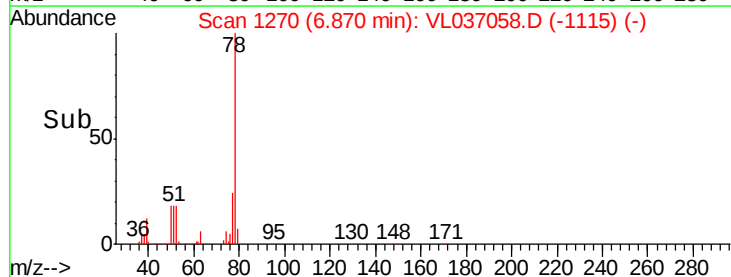
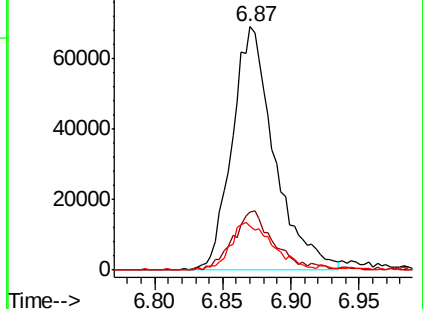
50 18.0 15.0 22.4

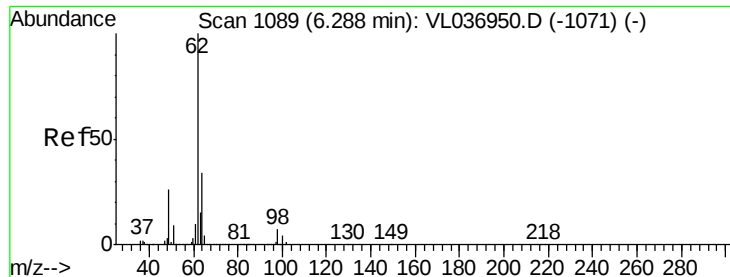


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.421 ppbv

RT: 6.29 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

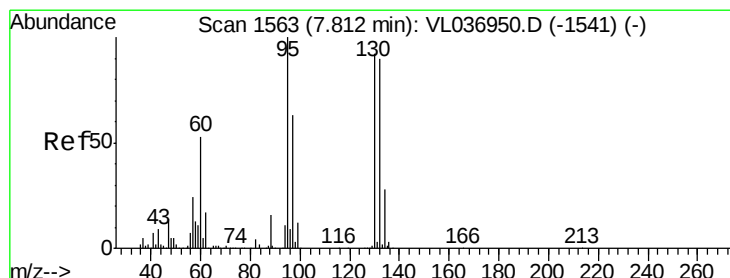
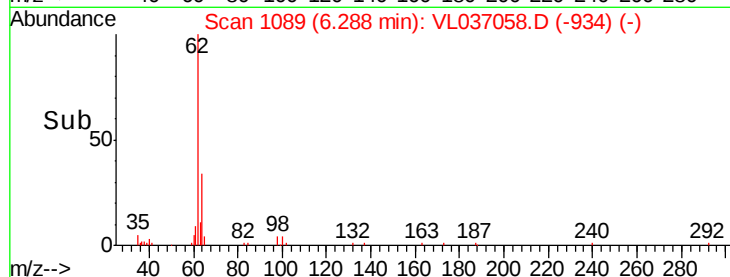
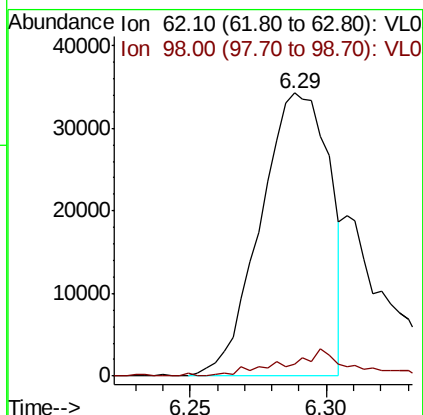
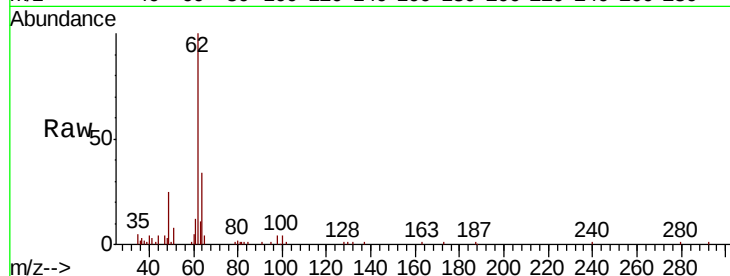
MDL-AIR-03-QT2-2021

Tot Ion: 62 Resp: 60192

Ion Ratio Lower Upper

62 100

98 0.0 5.5 8.3#



#38

Trichloroethene

Concen: 0.493 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Tgt Ion: 130 Resp: 60786

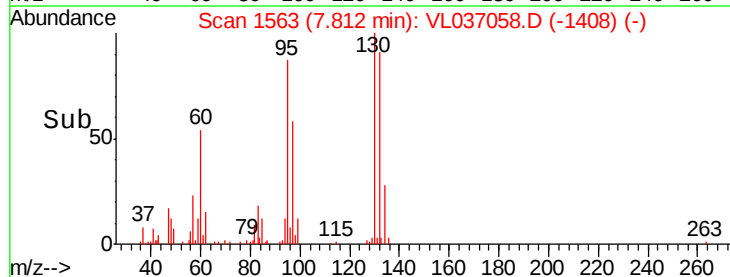
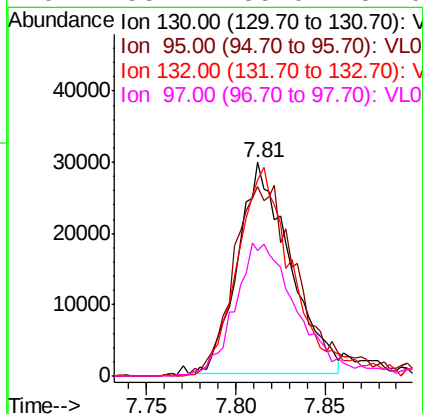
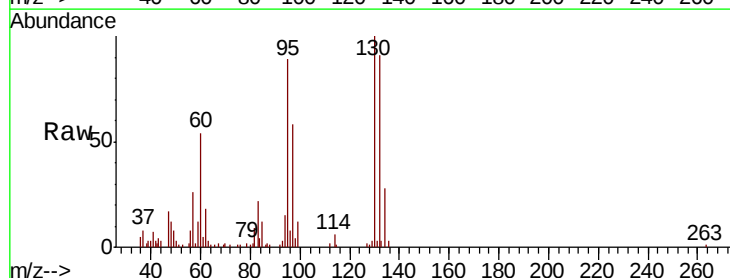
Ion Ratio Lower Upper

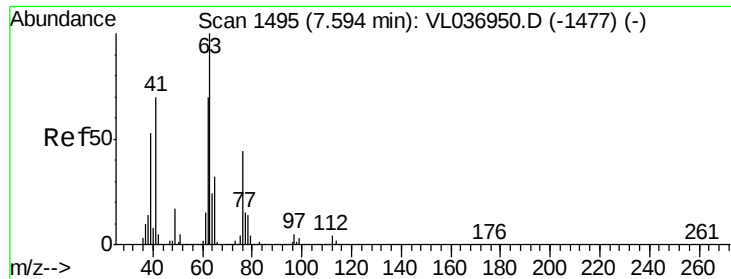
130 100

95 88.8 86.9 130.3

132 91.8 78.4 117.6

97 58.2 55.0 82.6





#39

1,2-Dichloropropane

Concen: 0.469 ppbv

RT: 7.59 min Scan# 1495

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

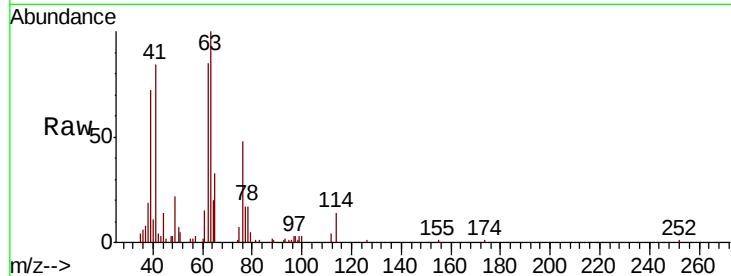
Tot Ion: 63 Resp: 52070

Ion Ratio Lower Upper

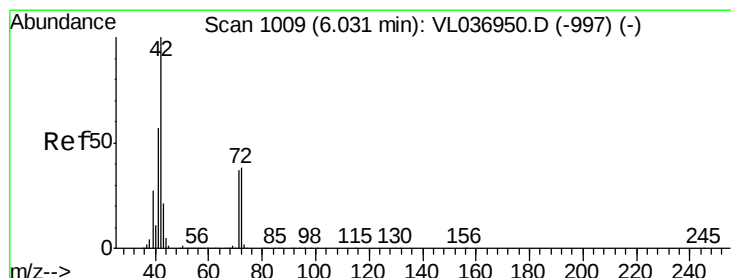
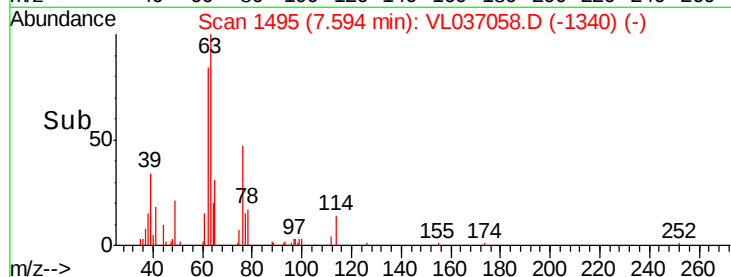
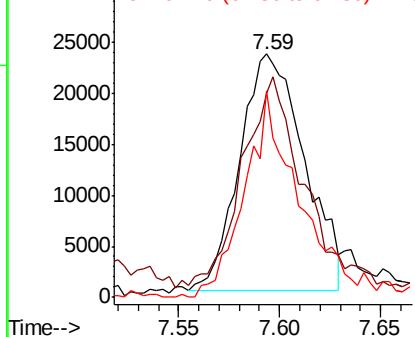
63 100

41 81.2 55.7 83.5

62 86.9 56.2 84.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.107 ppbv

RT: 6.06 min Scan# 1017

Delta R.T. 0.03 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

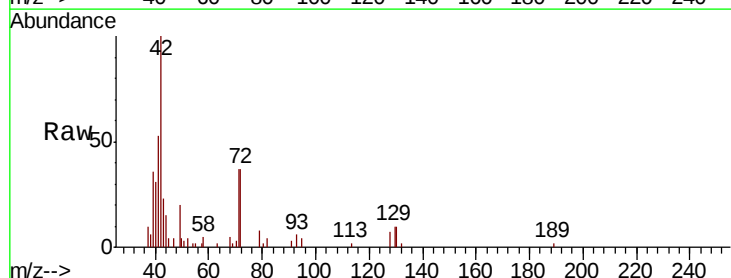
Tgt Ion: 42 Resp: 7450

Ion Ratio Lower Upper

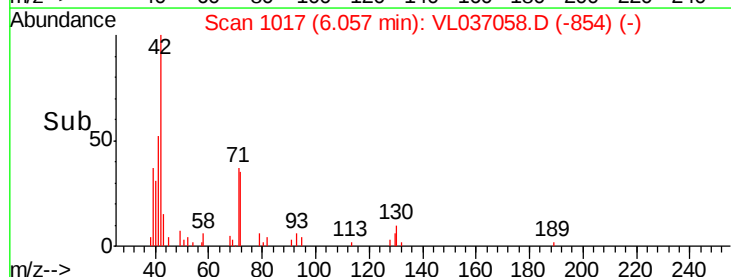
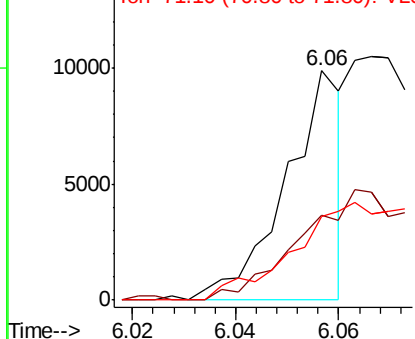
42 100

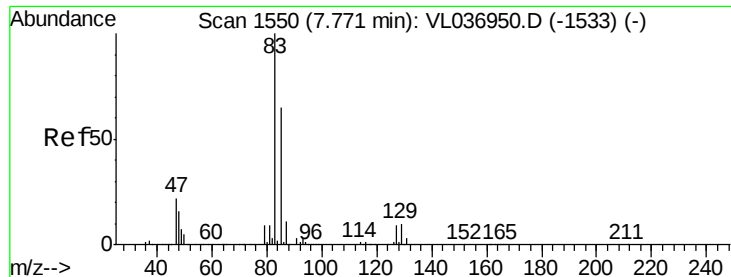
72 0.0 31.4 47.2#

71 0.0 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: 0.248 ppbv

RT: 7.77 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

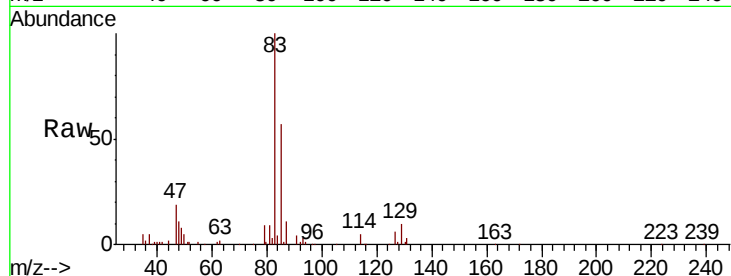
Tot Ion: 83 Resp: 53528

Ion Ratio Lower Upper

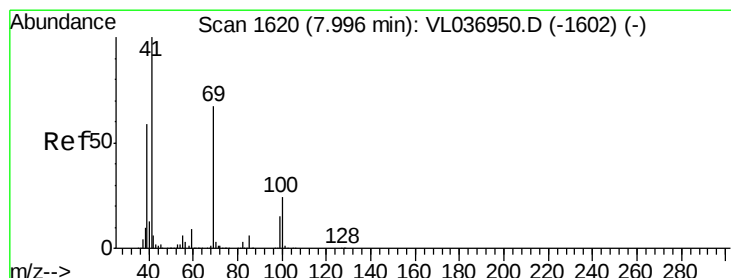
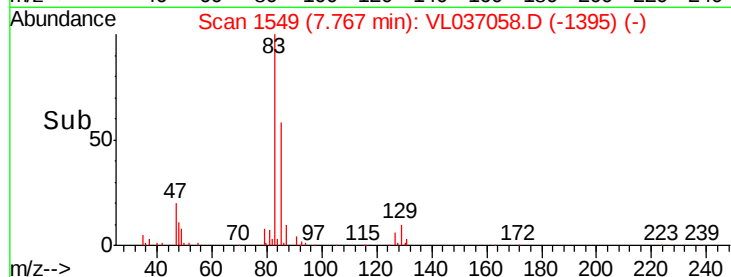
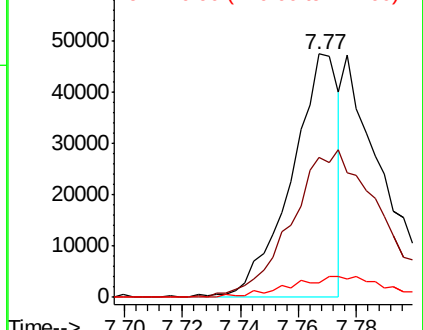
83 100

85 57.3 51.7 77.5

127 6.0 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): VL0



#43

Methyl Methacrylate

Concen: 0.376 ppbv

RT: 8.01 min Scan# 1623

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

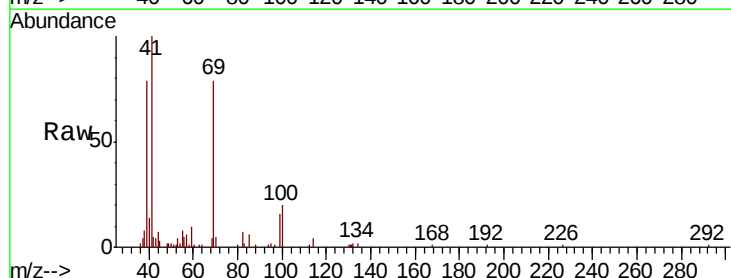
Tgt Ion: 69 Resp: 37333

Ion Ratio Lower Upper

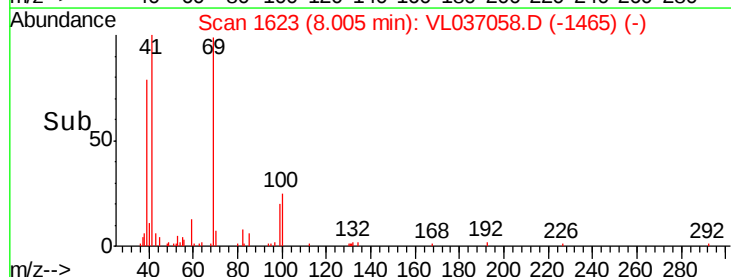
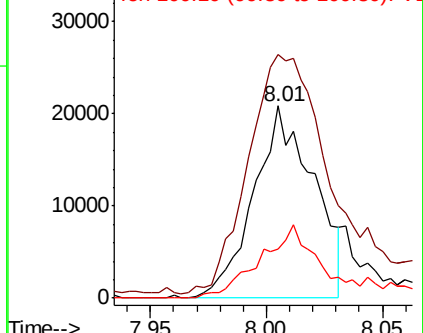
69 100

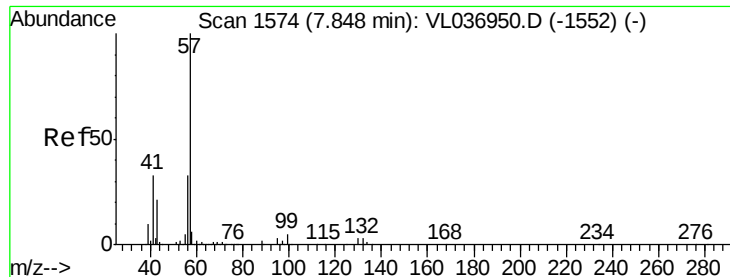
41 173.6 118.6 178.0

100 42.4 28.2 42.4



Abundance Ion 69.10 (68.80 to 69.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 100.10 (99.80 to 100.80): VL0

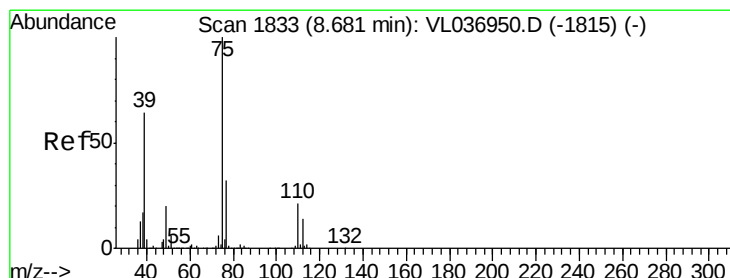
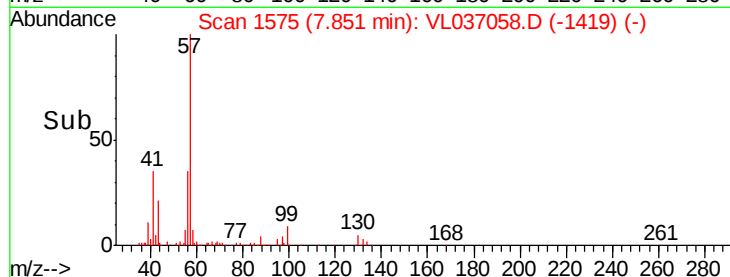
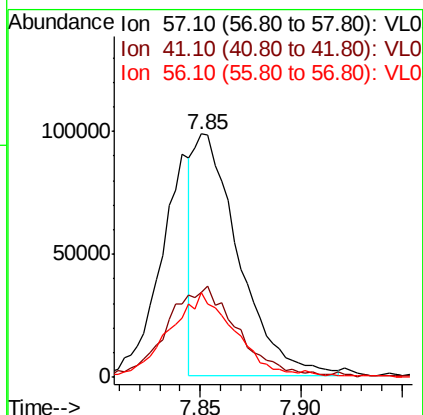
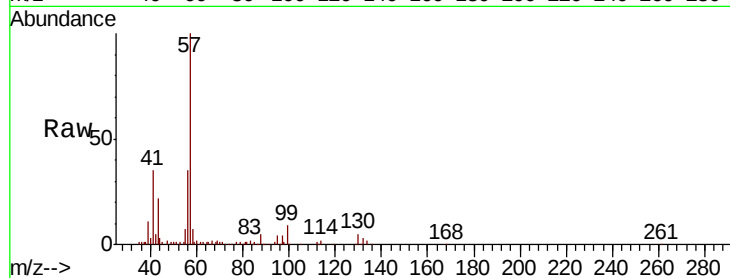




#44  
 2,2,4-Trimethylpentane  
 Concen: 0.308 ppbv  
 RT: 7.85 min Scan# 1575  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

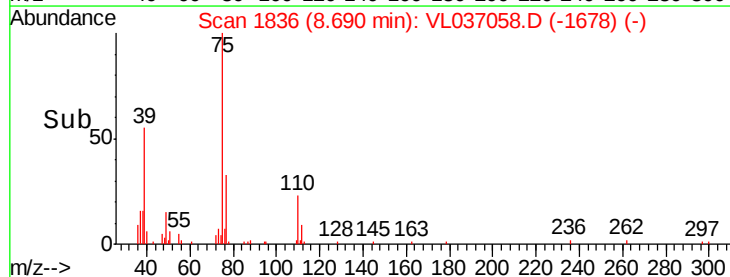
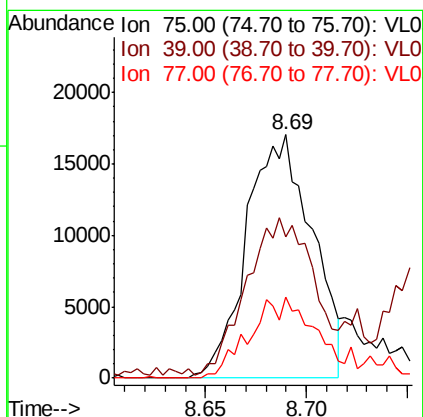
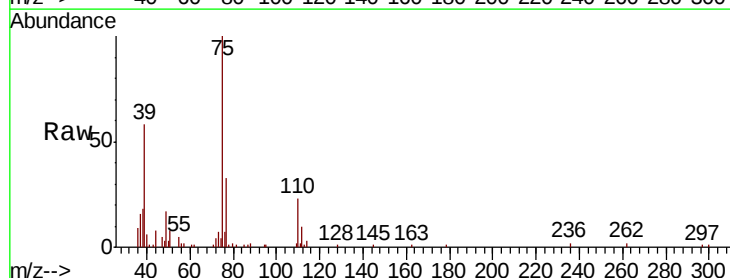
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

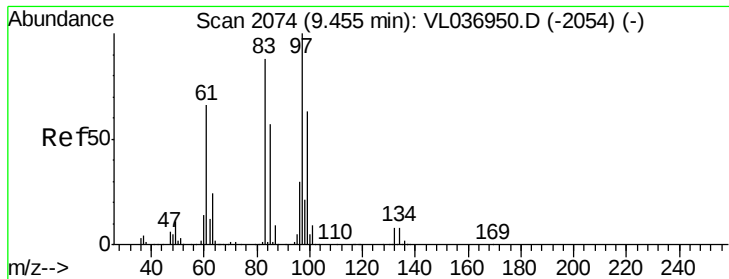
| Tot Ion   | 57   | Resp  | 152415 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 41        | 59.5 | 27.0  | 40.4#  |
| 56        | 53.1 | 25.4  | 38.2#  |



#46  
 cis-1,3-Dichloropropene  
 Concen: 0.376 ppbv  
 RT: 8.69 min Scan# 1836  
 Delta R.T. 0.01 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

| Tgt Ion   | 75   | Resp  | 38379 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 39        | 52.5 | 51.5  | 77.3  |
| 77        | 33.5 | 25.9  | 38.9  |

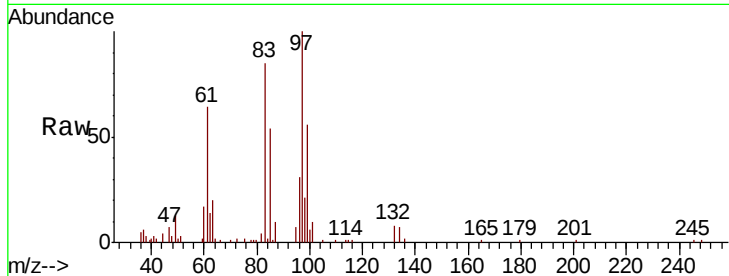




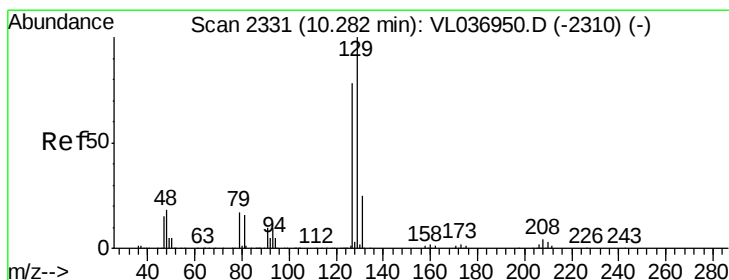
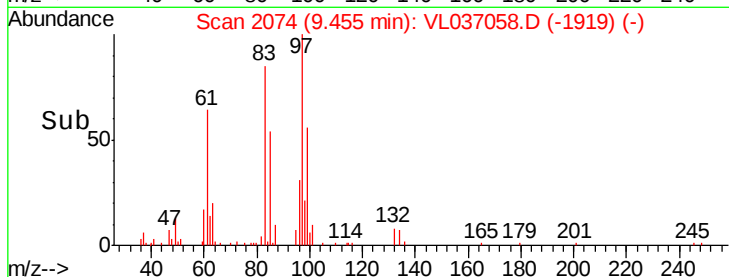
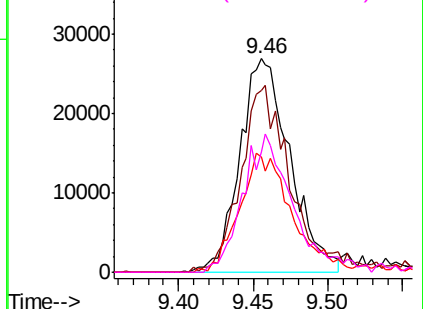
#47  
 1,1,2-Trichloroethane  
 Concen: 0.540 ppbv  
 RT: 9.46 min Scan# 2074  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

Tot Ion: 97 Resp: 62768  
 Ion Ratio Lower Upper  
 97 100  
 83 85.3 70.4 105.6  
 85 53.7 45.5 68.3  
 99 56.4 50.2 75.2

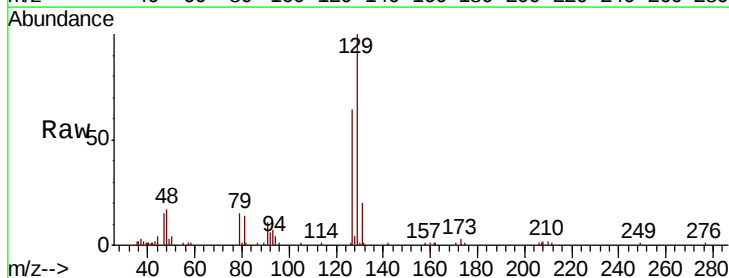


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 83.00 (82.70 to 83.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0

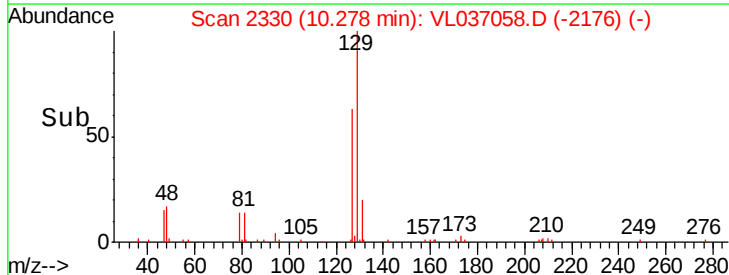
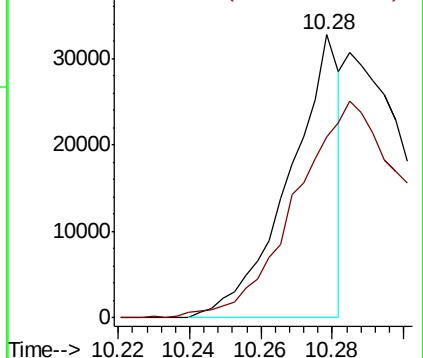


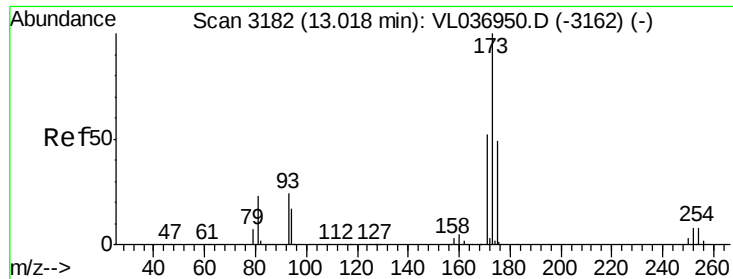
#48  
 Dibromochloromethane  
 Concen: 0.171 ppbv  
 RT: 10.28 min Scan# 2330  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Tgt Ion: 129 Resp: 32127  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 39.3 117.8#



Abundance Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.166 ppbv

RT: 13.01 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

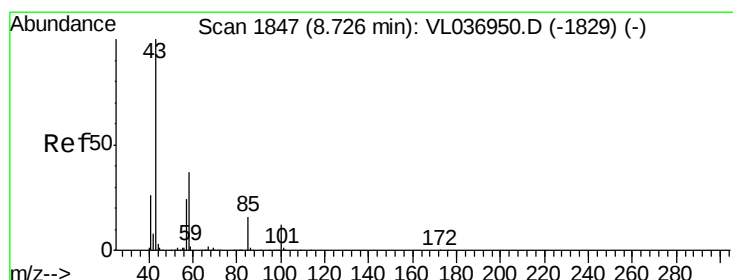
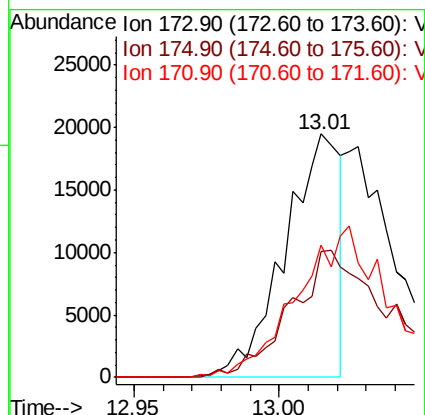
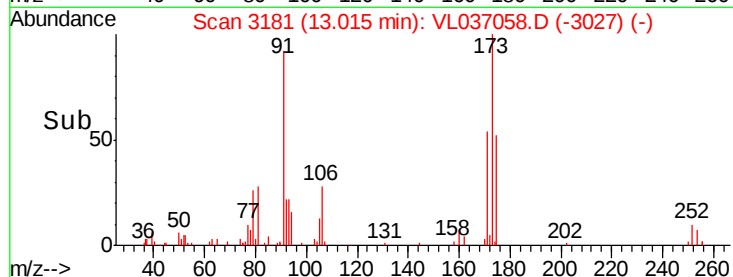
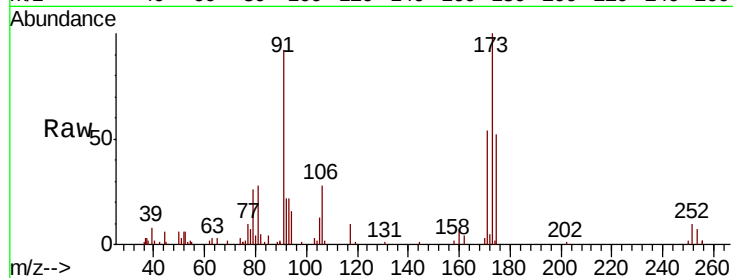
Tot Ion:173 Resp: 25818

Ion Ratio Lower Upper

173 100

175 99.9 40.4 60.6#

171 0.0 42.6 64.0#



#50

4-Methyl-2-Pentanone

Concen: 0.147 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. 0.02 min

Lab File: VL037058.D

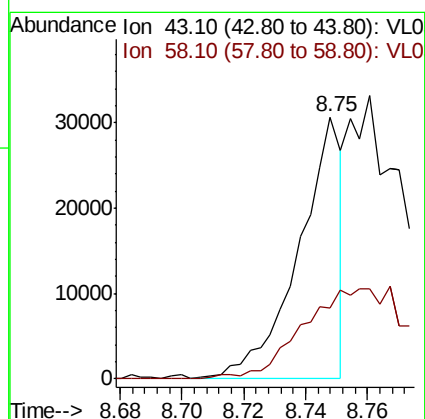
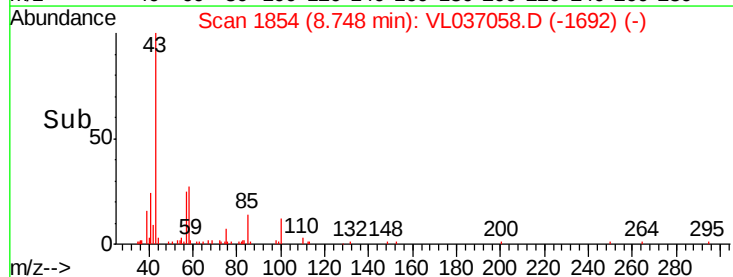
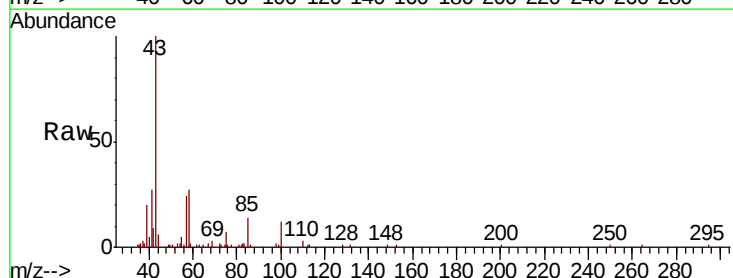
Acq: 25 May 2021 13:22

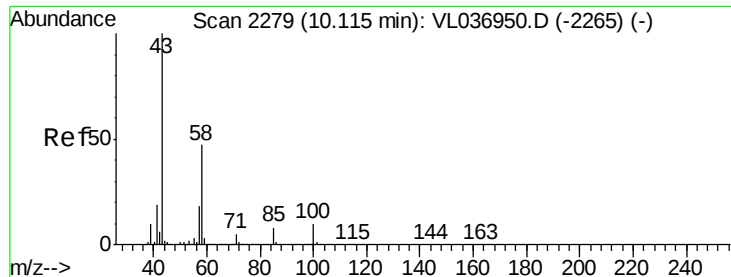
Tgt Ion: 43 Resp: 29610

Ion Ratio Lower Upper

43 100

58 0.0 29.4 44.2#





#51

2-Hexanone

Concen: 0.137 ppbv

RT: 10.14 min Scan# 2288

Delta R.T. 0.03 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

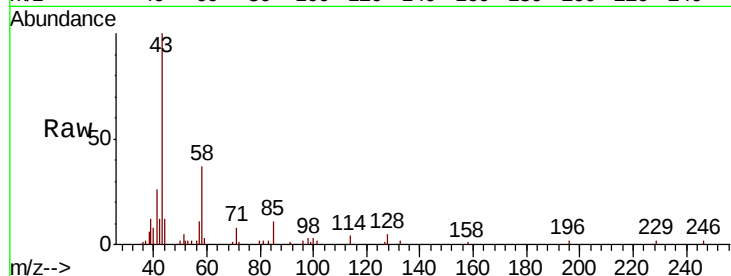
Tot Ion: 43 Resp: 14559

Ion Ratio Lower Upper

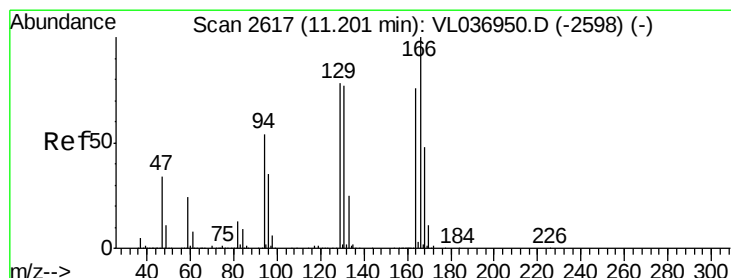
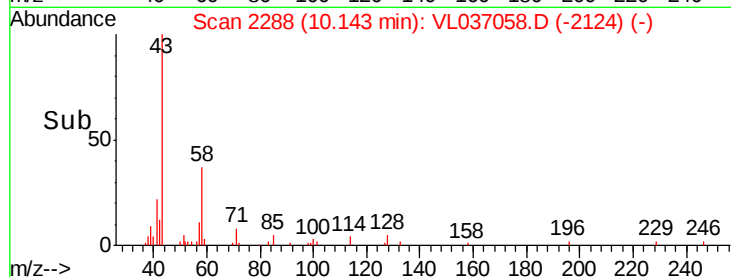
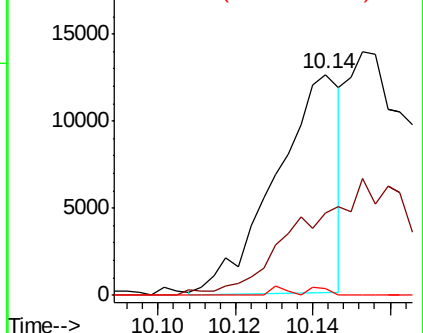
43 100

58 0.0 41.1 61.7#

98 2.3 0.1 0.1#



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



#52

Tetrachloroethene

Concen: 0.301 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Tgt Ion: 164 Resp: 34545

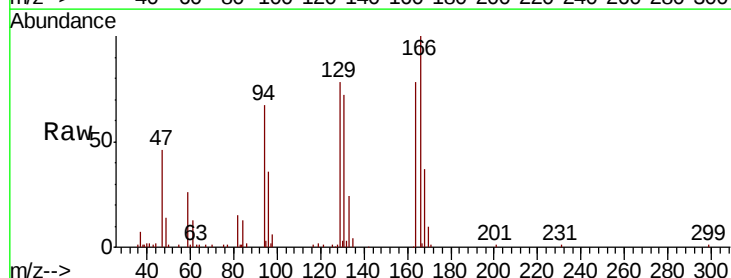
Ion Ratio Lower Upper

164 100

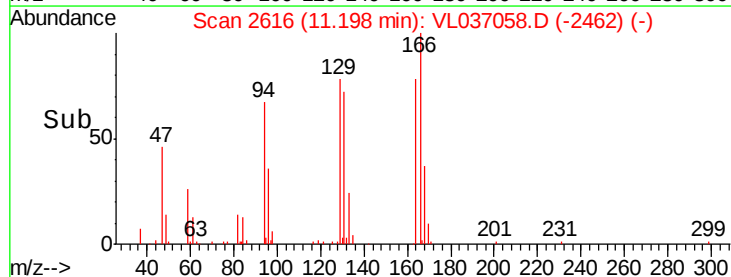
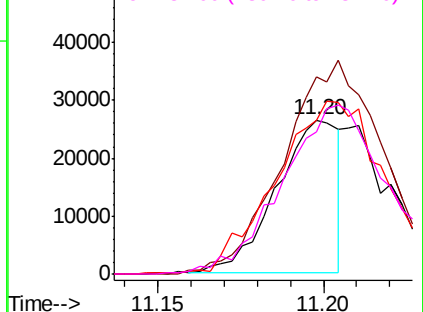
166 126.3 105.5 158.3

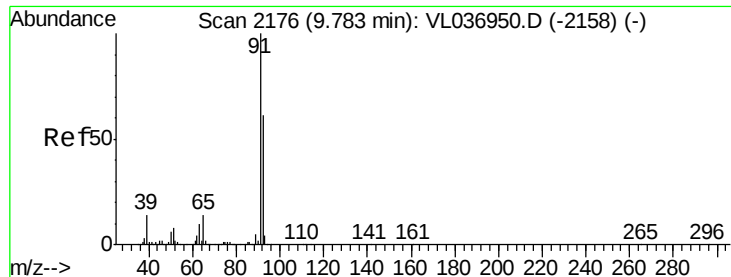
129 98.6 81.8 122.8

131 91.2 81.2 121.8



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: 0.449 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

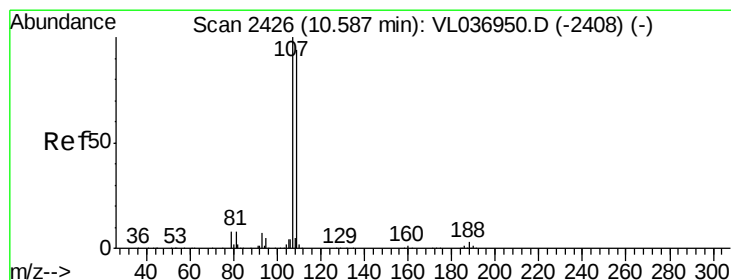
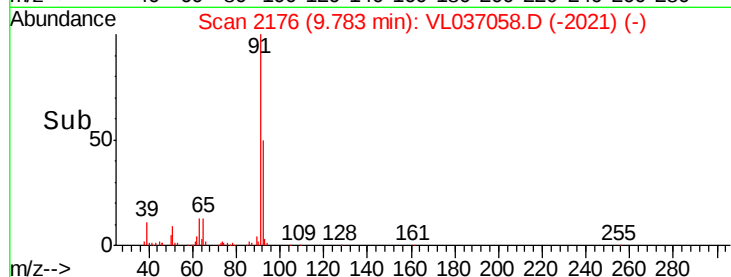
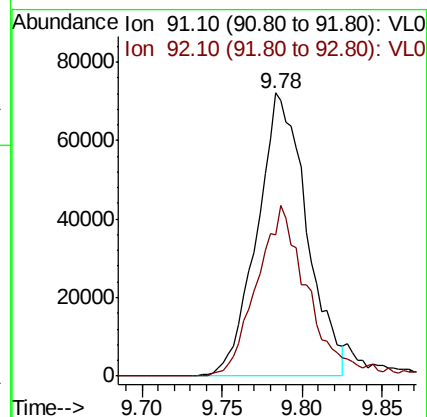
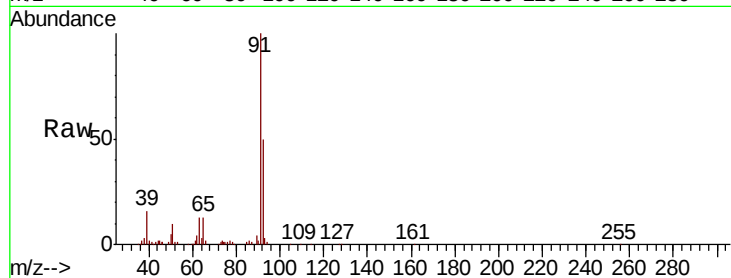
MDL-AIR-03-QT2-2021

Tot Ion: 91 Resp: 154079

Ion Ratio Lower Upper

91 100

92 63.1 49.5 74.3



#54

1,2-Dibromoethane

Concen: 0.468 ppbv

RT: 10.59 min Scan# 2428

Delta R.T. 0.01 min

Lab File: VL037058.D

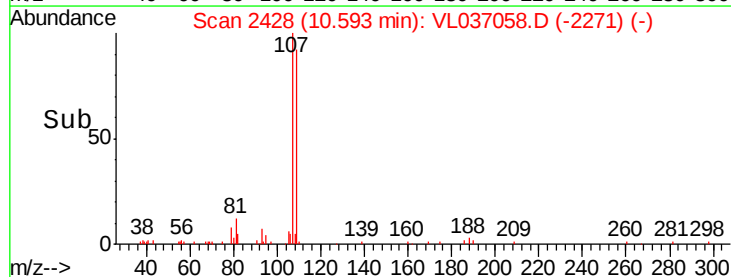
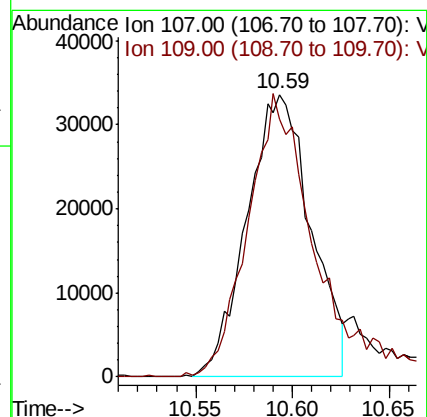
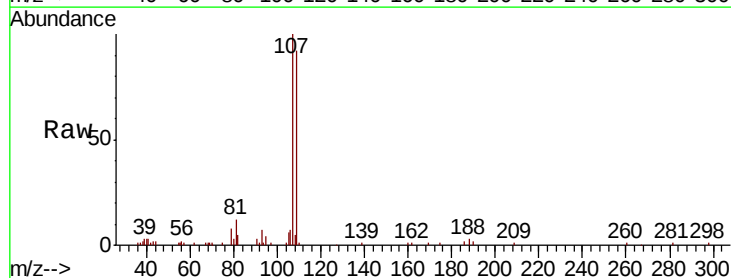
Acq: 25 May 2021 13:22

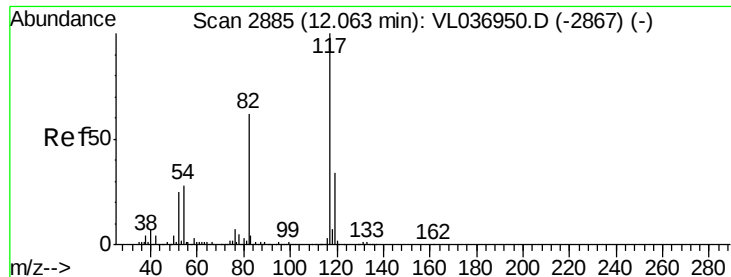
Tgt Ion:107 Resp: 77307

Ion Ratio Lower Upper

107 100

109 91.0 75.0 112.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

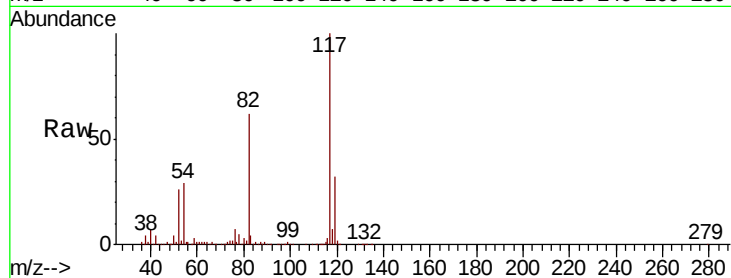
Tot Ion:117 Resp: 3042723

Ion Ratio Lower Upper

117 100

82 62.7 52.6 79.0

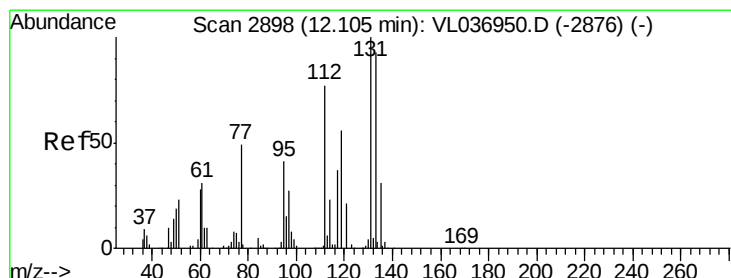
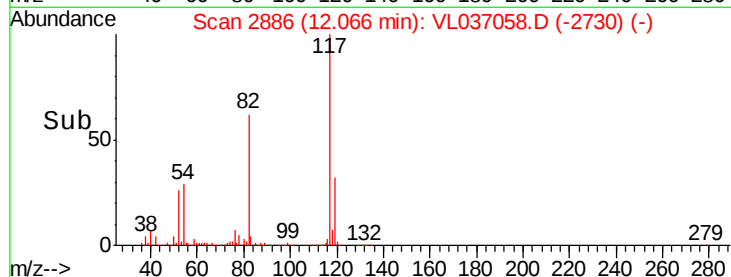
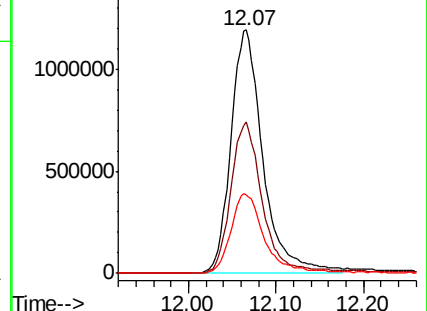
119 34.3 46.6 70.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.525 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

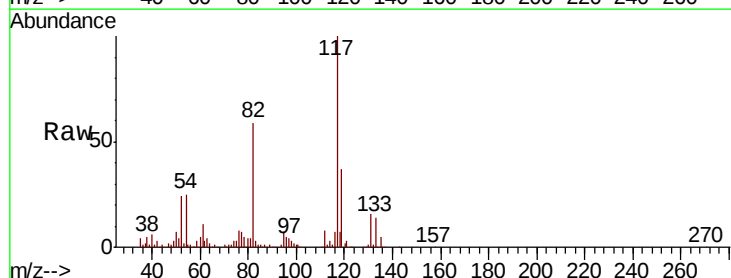
Tgt Ion:131 Resp: 67226

Ion Ratio Lower Upper

131 100

133 101.6 76.9 115.3

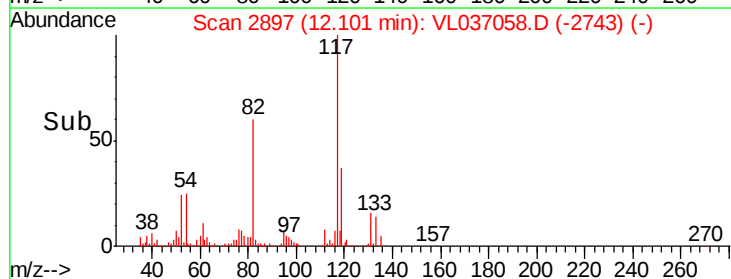
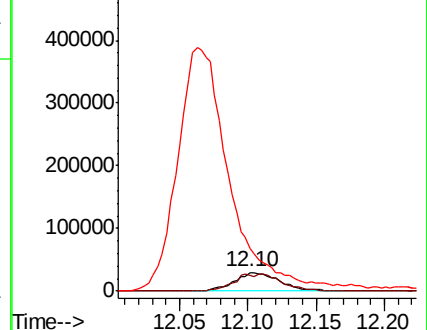
119 1554.9 120.2 180.4#

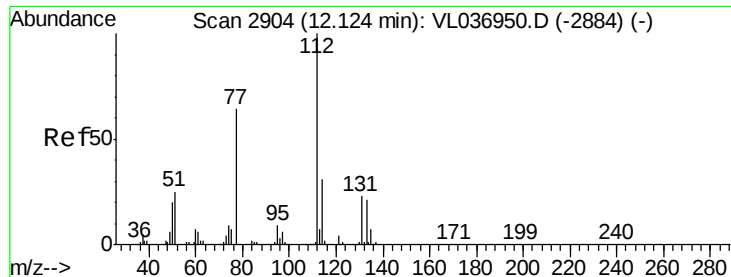


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

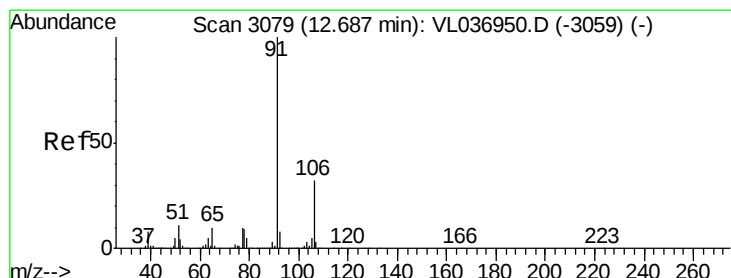
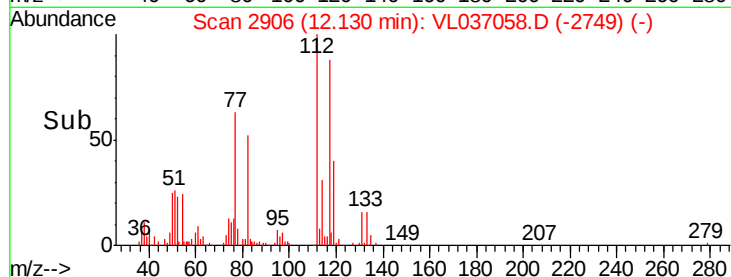
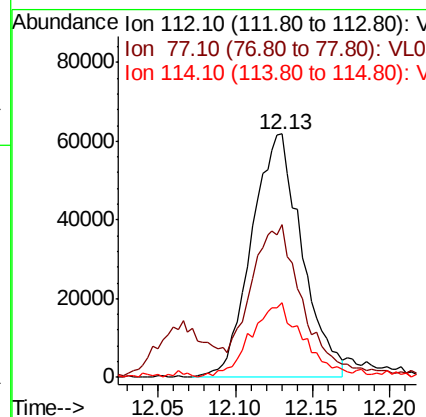
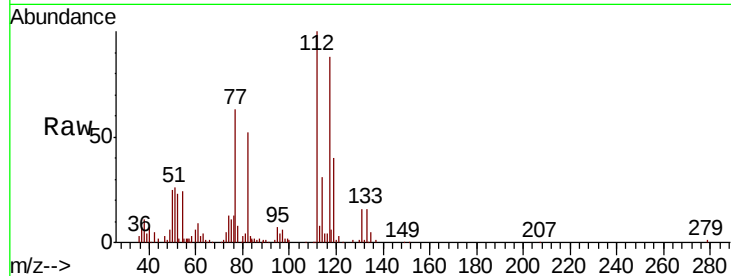




#57  
Chlorobenzene  
Concen: 0.594 ppbv  
RT: 12.13 min Scan# 2906  
Delta R.T. 0.01 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

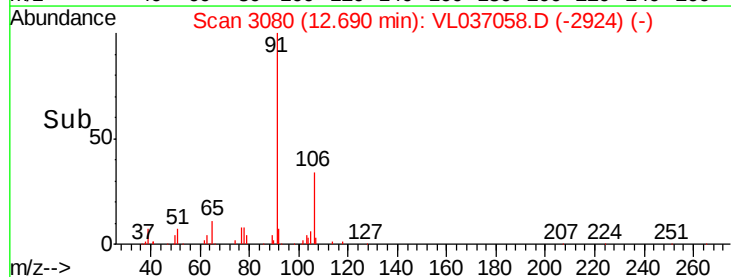
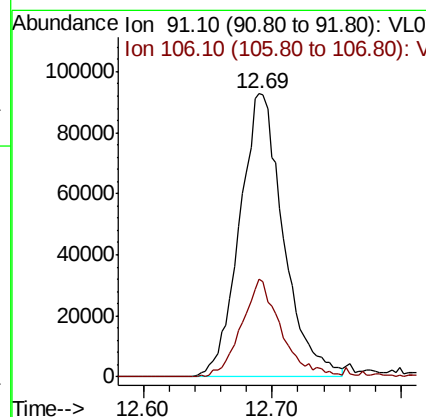
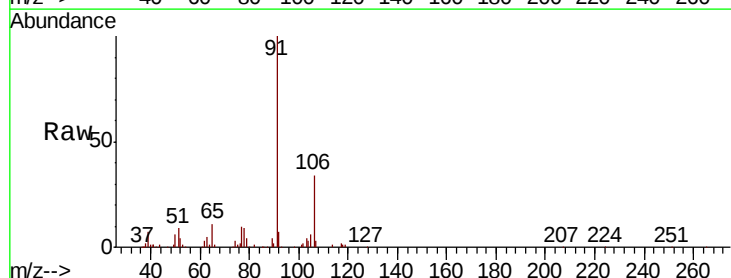
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

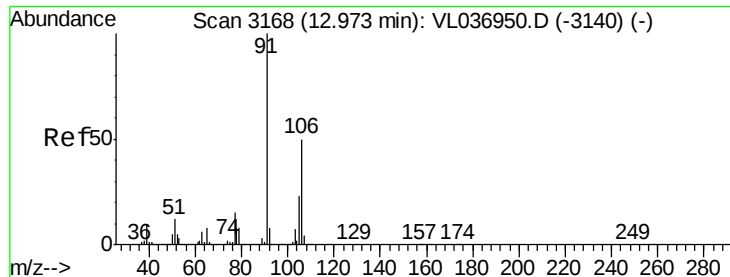
Tot Ion:112 Resp: 140073  
Ion Ratio Lower Upper  
112 100  
77 57.3 51.0 76.6  
114 30.0 28.3 34.5



#58  
Ethyl Benzene  
Concen: 0.511 ppbv  
RT: 12.69 min Scan# 3080  
Delta R.T. 0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Tgt Ion: 91 Resp: 219278  
Ion Ratio Lower Upper  
91 100  
106 34.0 25.6 38.4





#59

m/p-Xylene

Concen: 0.465 ppbv

RT: 12.98 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

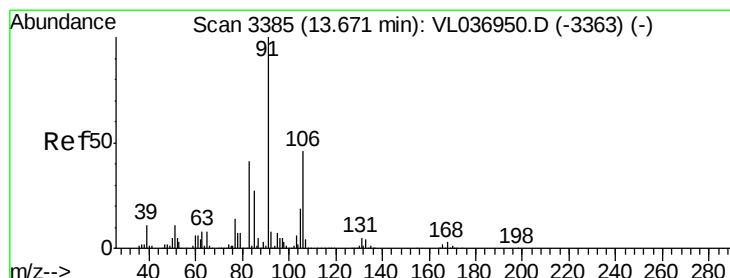
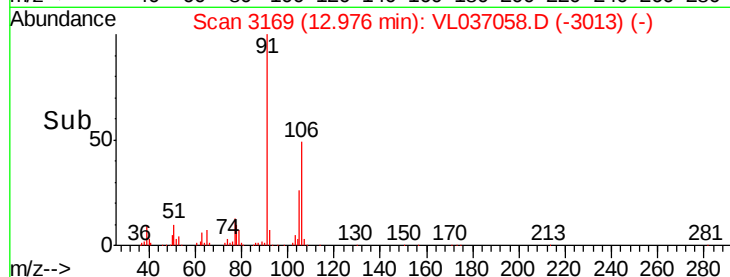
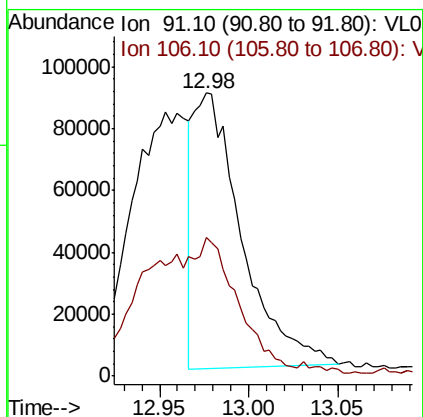
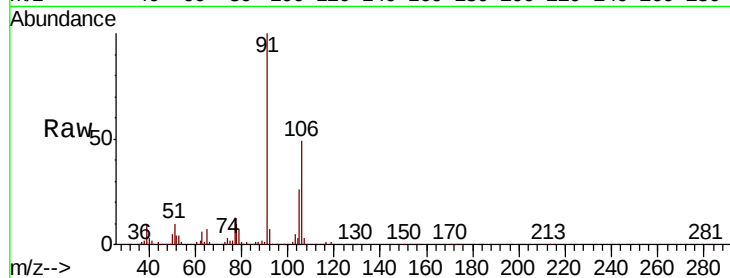
MDL-AIR-03-QT2-2021

Tot Ion: 91 Resp: 165007

Ion Ratio Lower Upper

91 100

106 102.6 37.4 56.2#



#60

o-Xylene

Concen: 0.535 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.00 min

Lab File: VL037058.D

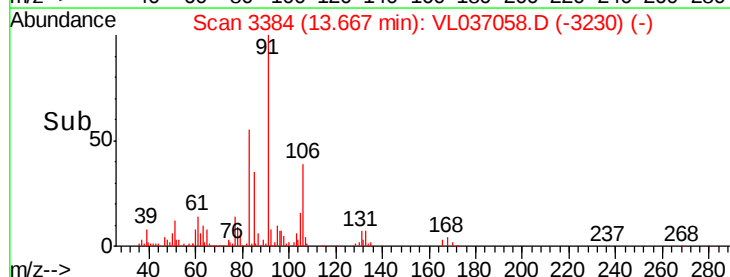
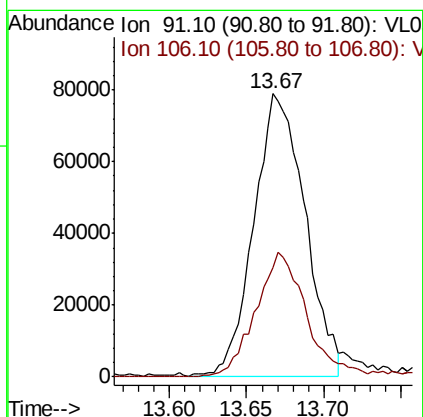
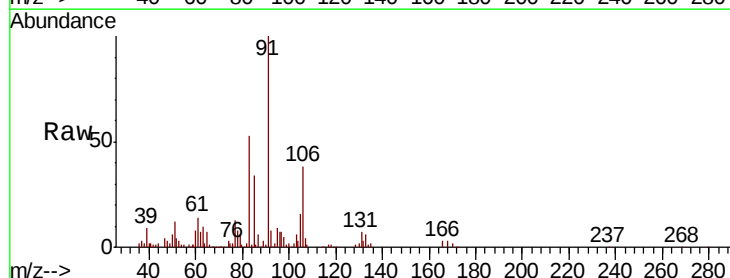
Acq: 25 May 2021 13:22

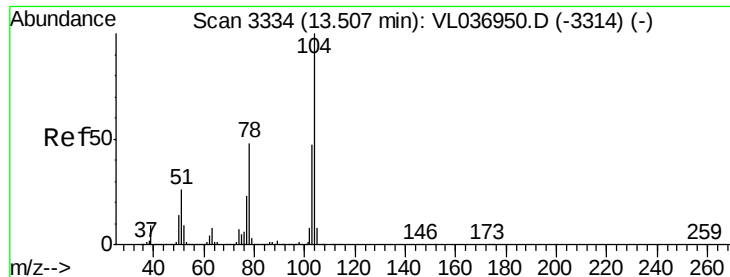
Tgt Ion: 91 Resp: 181075

Ion Ratio Lower Upper

91 100

106 45.4 23.4 70.3





#61

Stvrene

Concen: 0.403 ppbv

RT: 13.51 min Scan# 3334

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

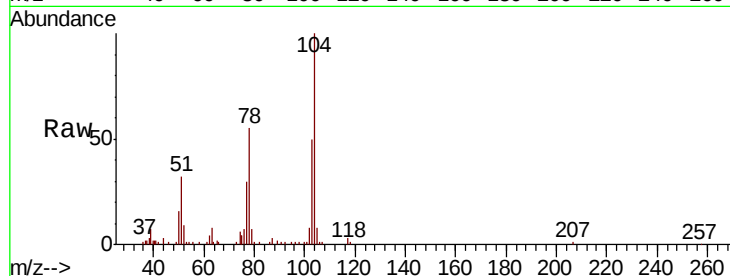
Tot Ion:104 Resp: 76959

Ion Ratio Lower Upper

104 100

78 59.1 39.0 58.6#

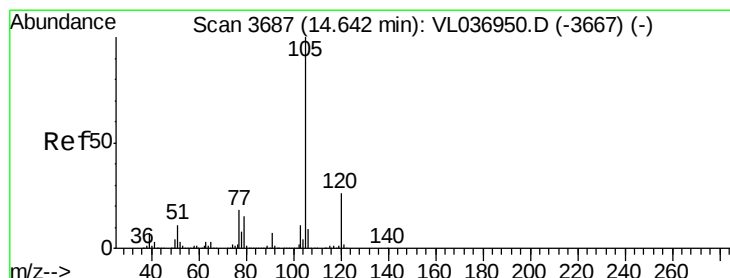
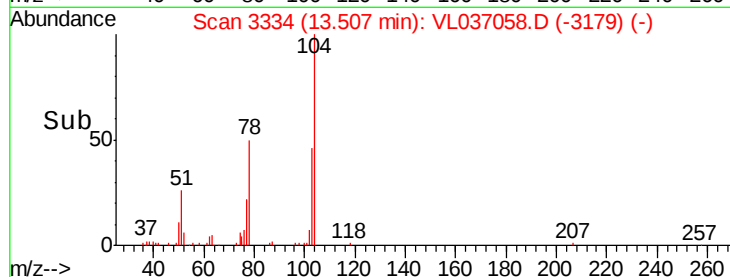
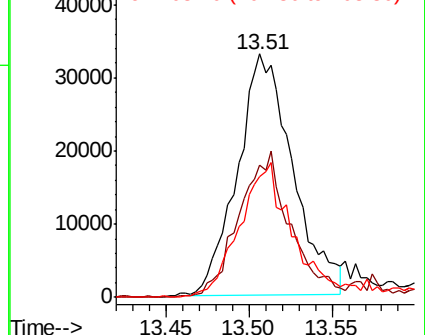
103 57.7 38.0 57.0#



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: 0.542 ppbv

RT: 14.64 min Scan# 3688

Delta R.T. 0.00 min

Lab File: VL037058.D

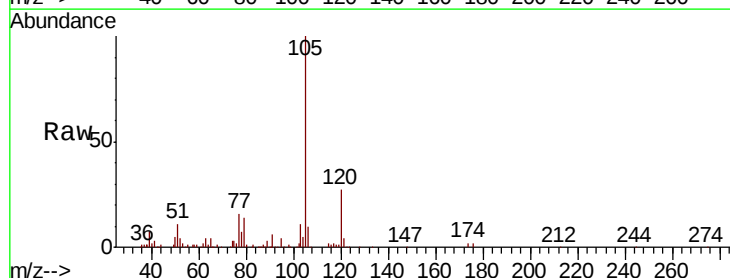
Acq: 25 May 2021 13:22

Tgt Ion:105 Resp: 263890

Ion Ratio Lower Upper

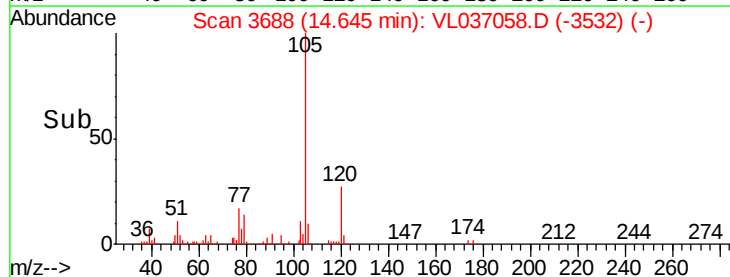
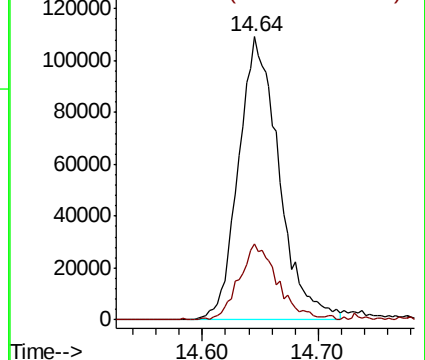
105 100

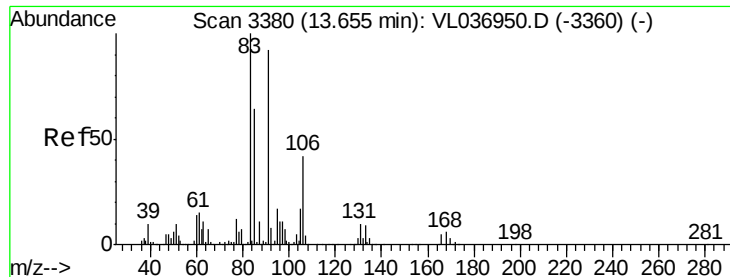
120 26.1 21.7 32.5



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: 0.502 ppbv

RT: 13.66 min Scan# 3382

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

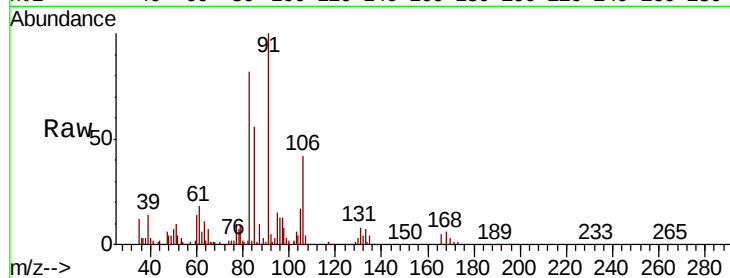
Tot Ion: 83 Resp: 127027

Ion Ratio Lower Upper

83 100

131 11.7 5.0 15.0

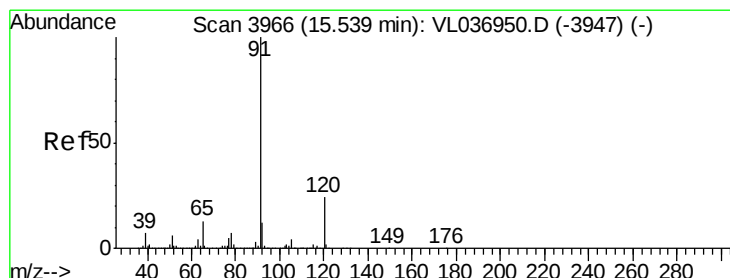
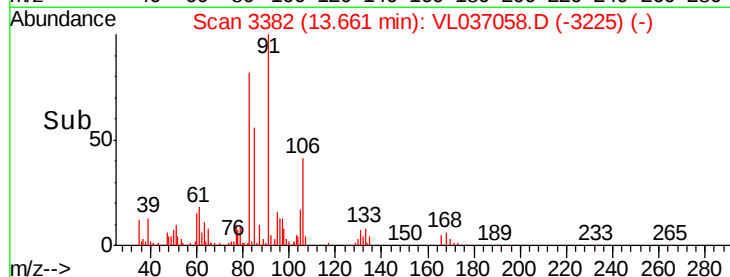
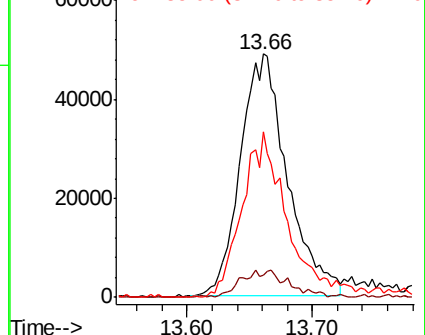
85 67.6 32.9 98.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.194 ppbv

RT: 15.55 min Scan# 3970

Delta R.T. 0.01 min

Lab File: VL037058.D

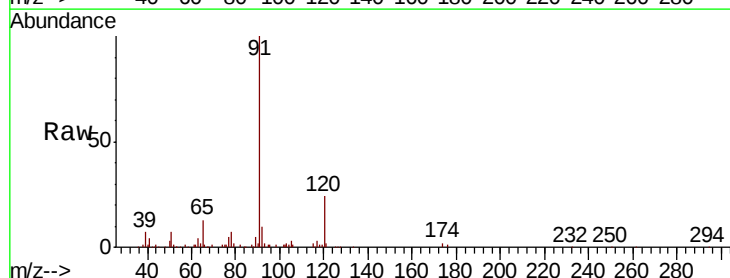
Acq: 25 May 2021 13:22

Tgt Ion: 120 Resp: 24360

Ion Ratio Lower Upper

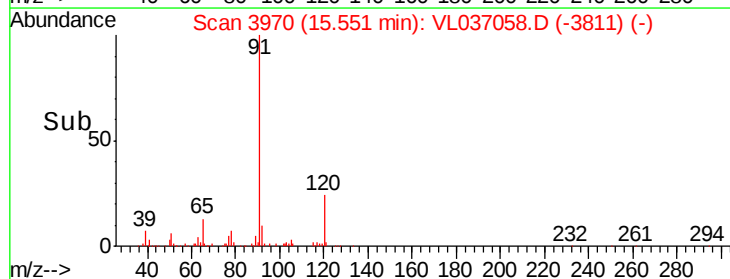
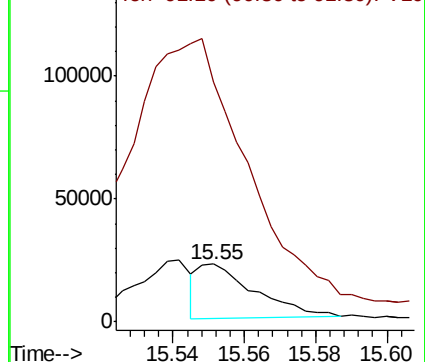
120 100

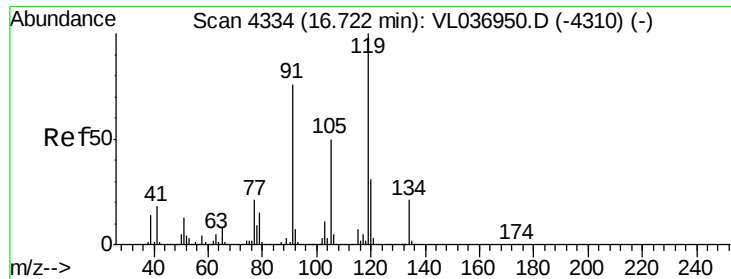
91 1306.1 343.8 515.6#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

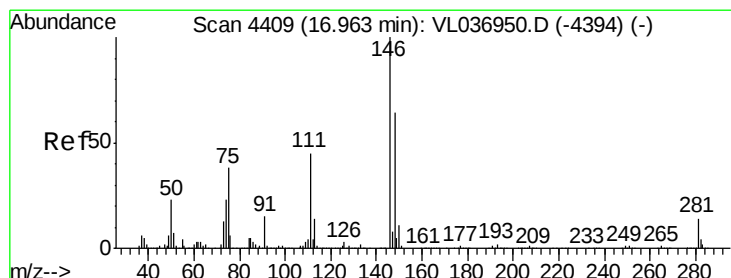
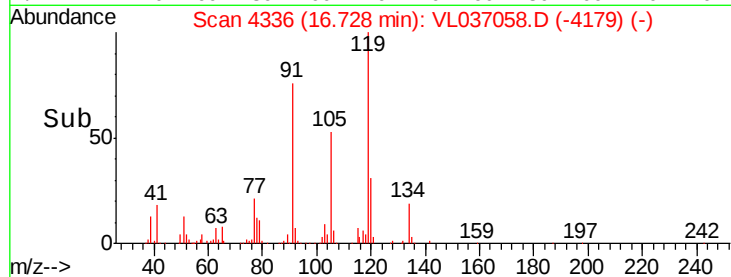
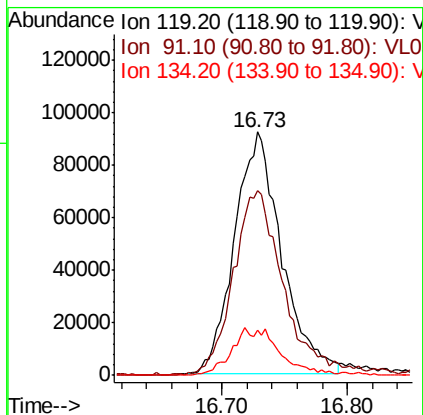
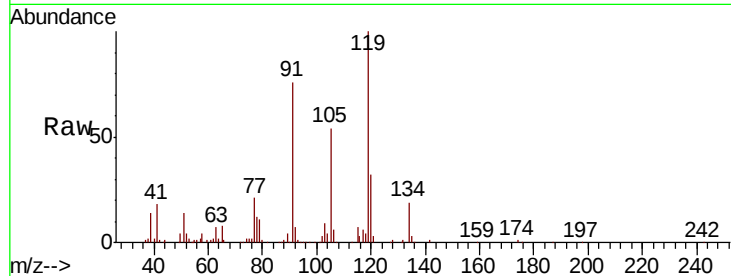




#65  
tert-Butylbenzene  
Concen: 0.548 ppbv  
RT: 16.73 min Scan# 4336  
Delta R.T. 0.01 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

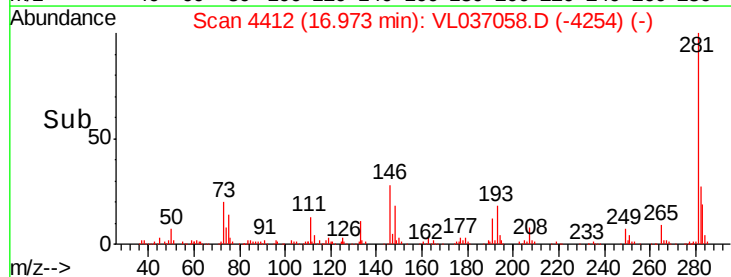
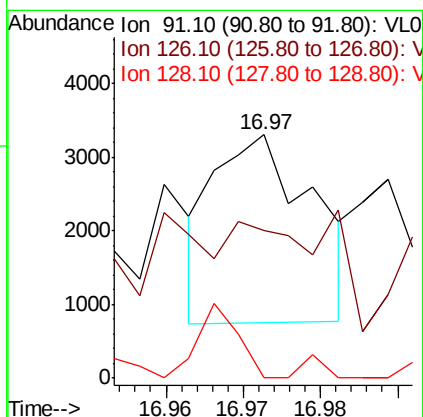
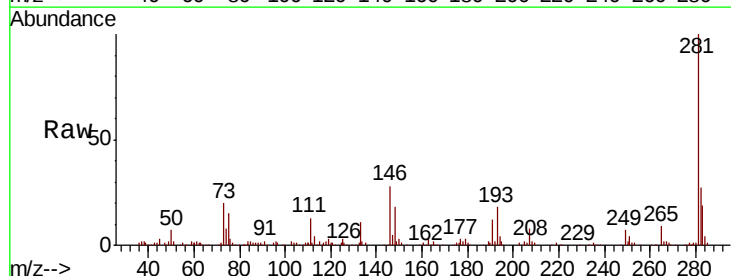
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

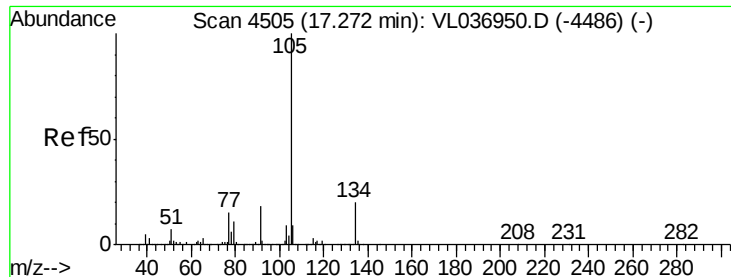
Tot Ion: 119 Resp: 240463  
Ion Ratio Lower Upper  
119 100  
91 82.6 61.9 92.9  
134 20.4 16.2 24.4



#66  
Benzyl Chloride  
Concen: 0.093 ppbv  
RT: 16.97 min Scan# 4412  
Delta R.T. 0.01 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Tgt Ion: 91 Resp: 2257  
Ion Ratio Lower Upper  
91 100  
126 276.7 16.5 24.7#  
128 22.5 5.5 8.3#





#67

sec-Butylbenzene

Concen: 0.472 ppbv

RT: 17.28 min Scan# 4507

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

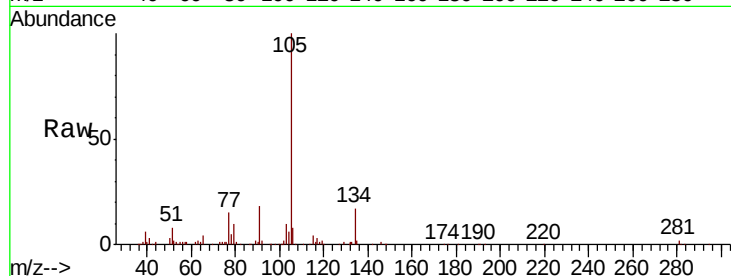
MDL-AIR-03-QT2-2021

Tot Ion:105 Resp: 282767

Ion Ratio Lower Upper

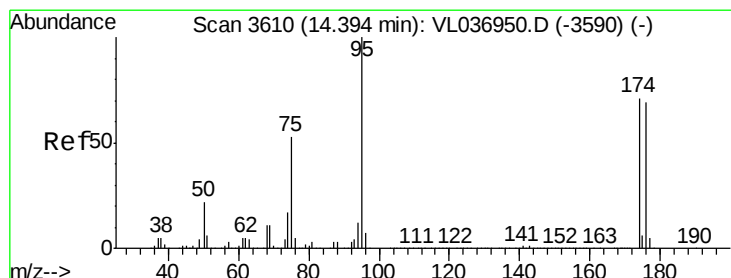
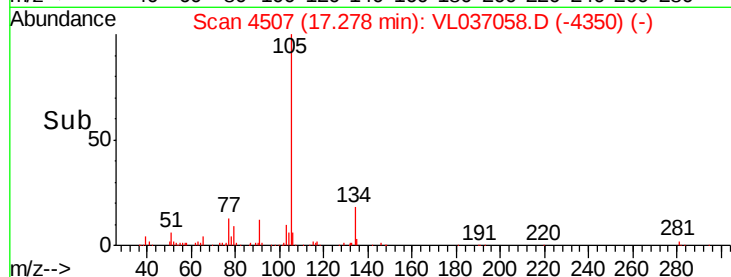
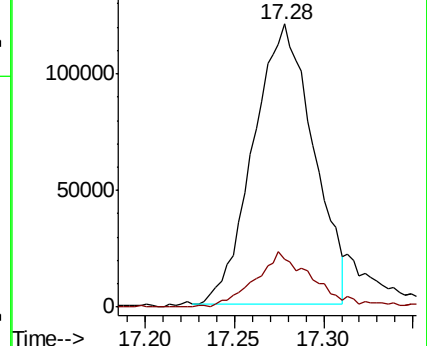
105 100

134 19.6 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: 9.311 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

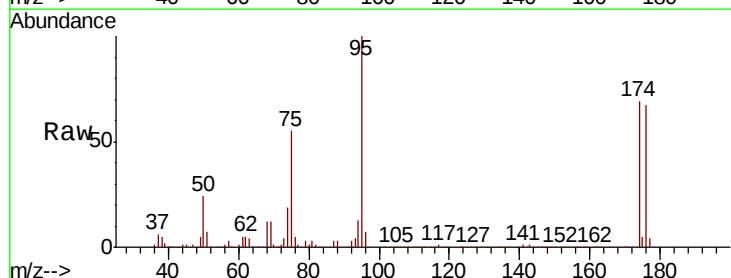
Tgt Ion: 95 Resp: 2128166

Ion Ratio Lower Upper

95 100

174 77.7 58.4 87.6

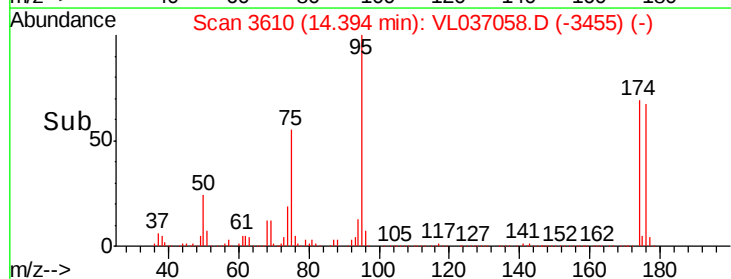
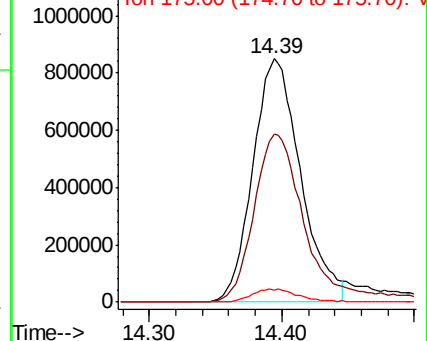
175 5.6 4.4 6.6

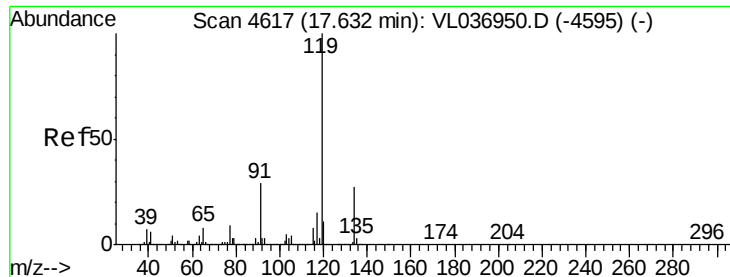


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

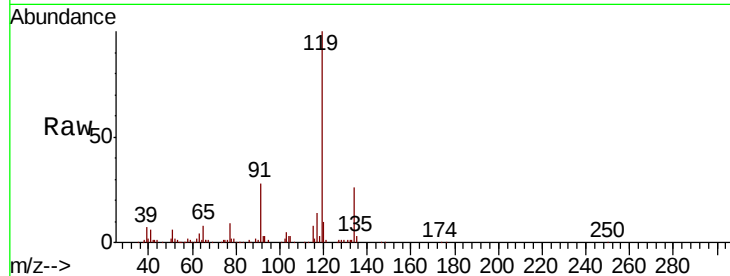




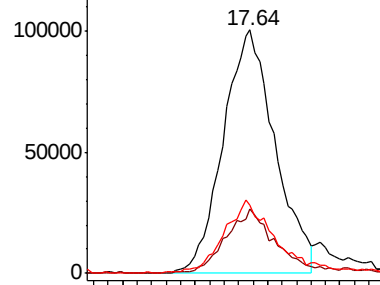
#69  
 p-Isopropyltoluene  
 Concen: 0.482 ppbv  
 RT: 17.64 min Scan# 4619  
 Delta R.T. 0.01 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

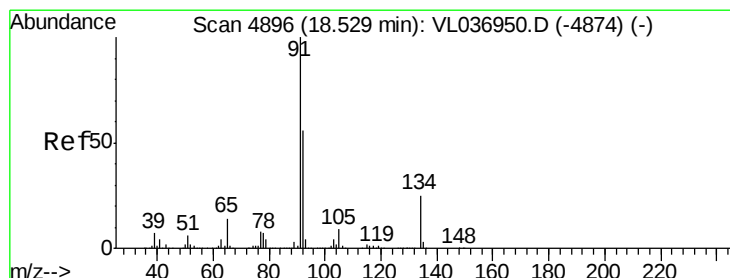
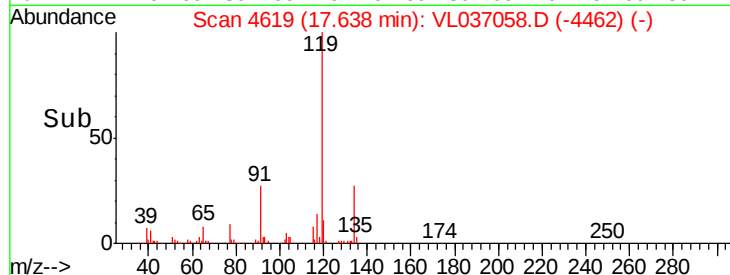
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.1  | 21.2  | 31.8  |
| 91      | 31.2  | 22.2  | 33.4  |



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

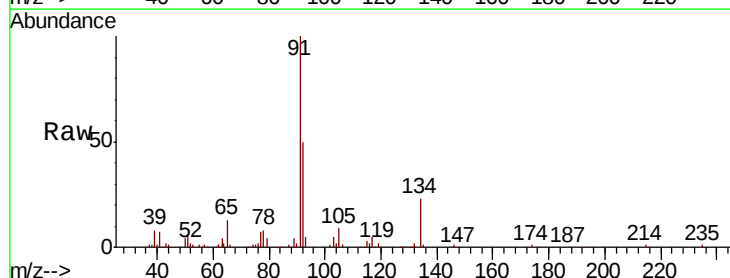


Time-->

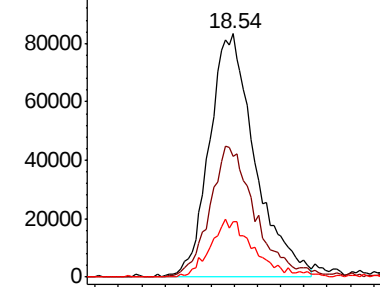


#70  
 n-Butylbenzene  
 Concen: 0.467 ppbv  
 RT: 18.54 min Scan# 4899  
 Delta R.T. 0.01 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

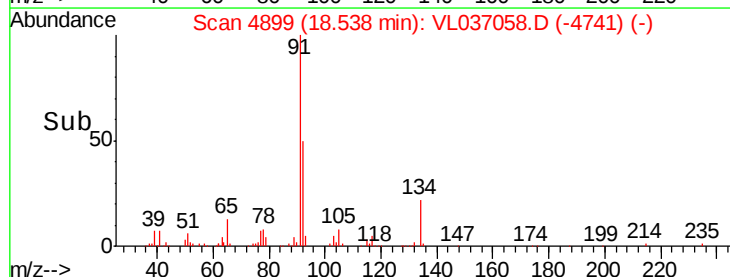
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.5  | 44.6  | 66.8  |
| 134     | 22.9  | 20.2  | 30.2  |

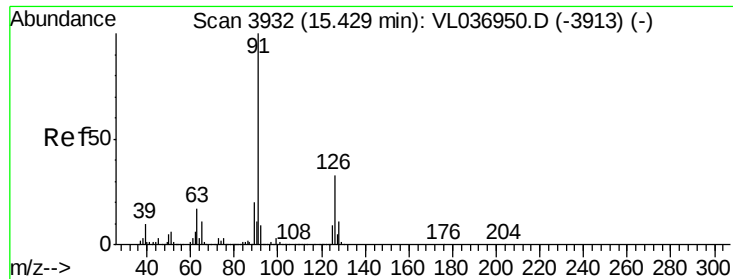


Abundance Ion 91.10 (90.80 to 91.80): VL0  
 Ion 92.10 (91.80 to 92.80): VL0  
 Ion 134.20 (133.90 to 134.90): V



Time-->





#71

2-Chlorotoluene

Concen: 0.506 ppbv

RT: 15.44 min Scan# 3934

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

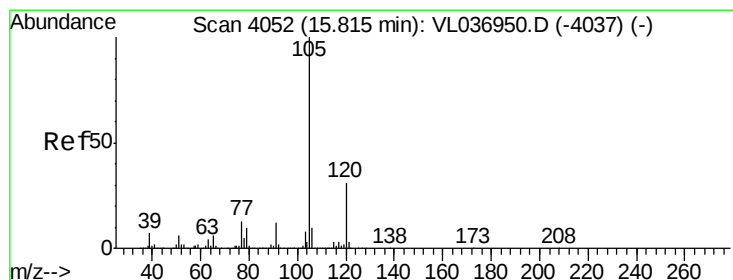
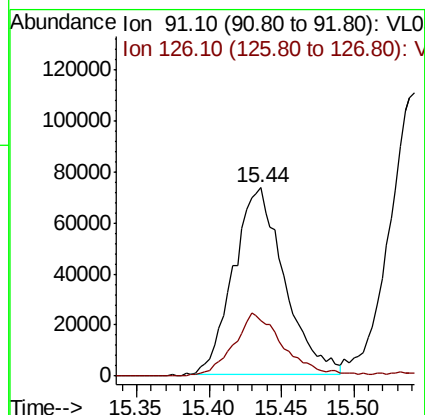
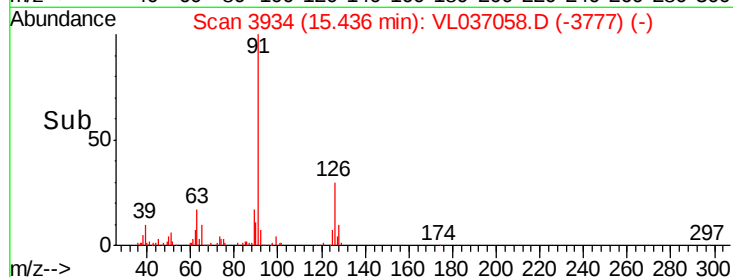
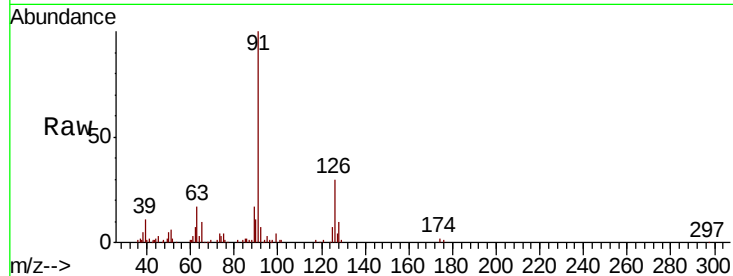
MDL-AIR-03-QT2-2021

Tot Ion: 91 Resp: 177876

Ion Ratio Lower Upper

91 100

126 33.7 13.1 52.5



#72

4-Ethyltoluene

Concen: 0.245 ppbv

RT: 15.82 min Scan# 4053

Delta R.T. 0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Tgt Ion: 105 Resp: 98627

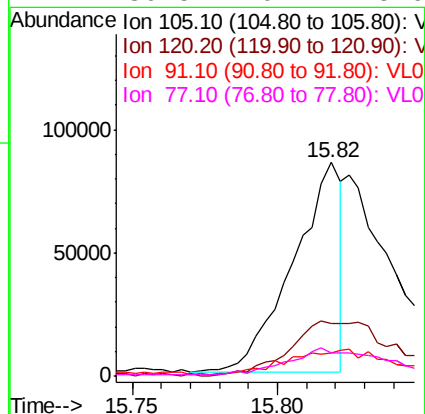
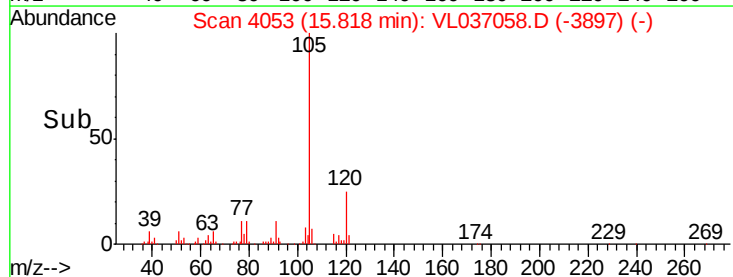
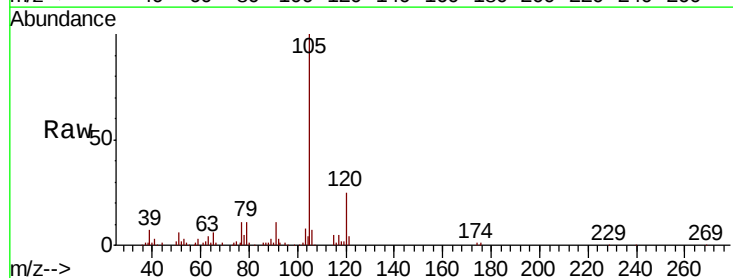
Ion Ratio Lower Upper

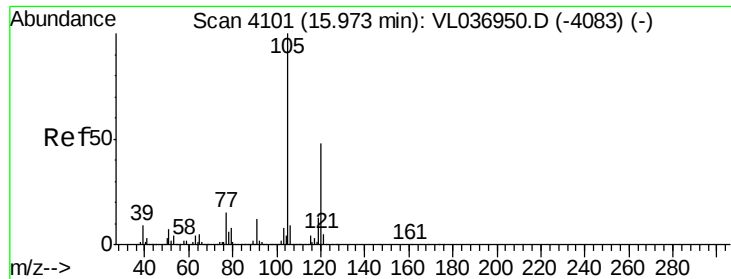
105 100

120 57.8 24.6 37.0#

91 0.0 9.8 14.6#

77 30.5 10.4 15.6#

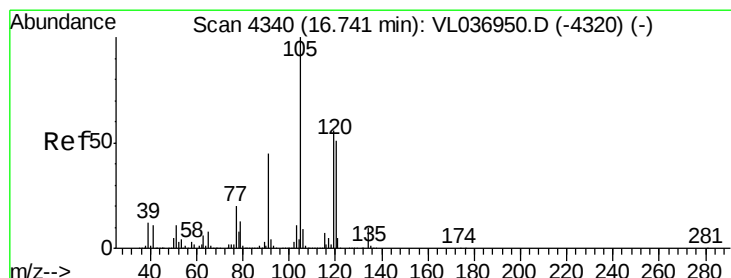
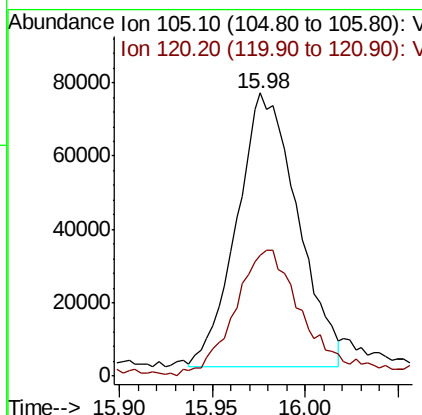
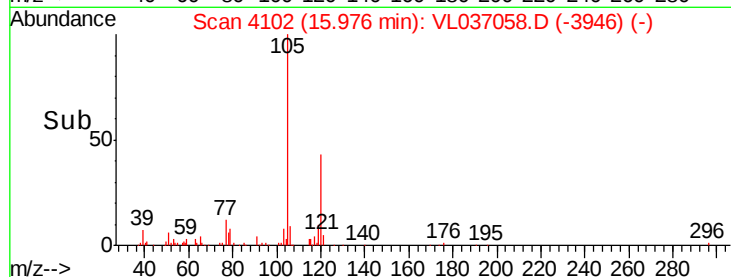
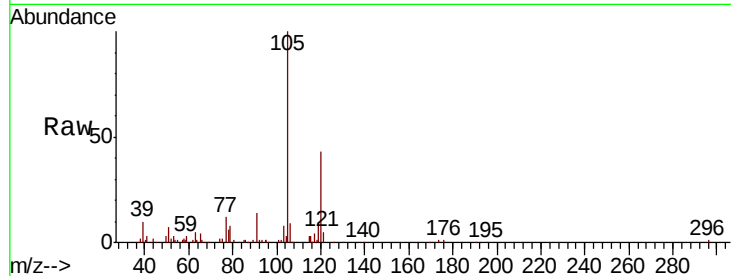




#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.451 ppbv  
 RT: 15.98 min Scan# 4102  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

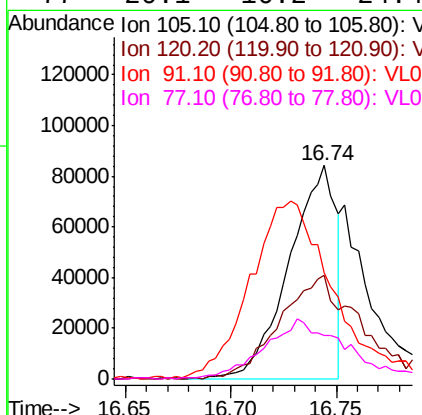
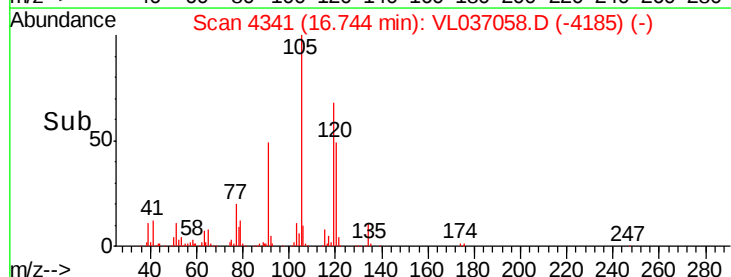
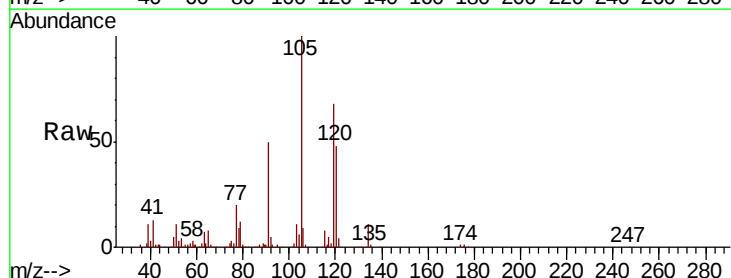
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

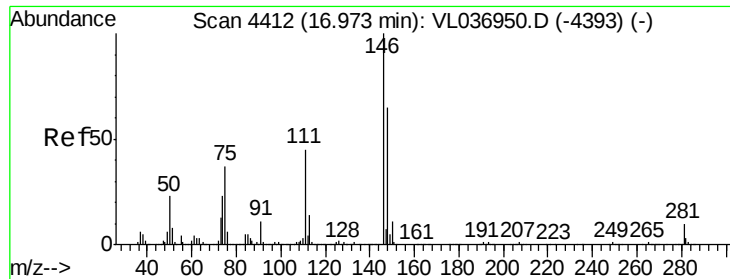
Tot Ion:105 Resp: 170288  
 Ion Ratio Lower Upper  
 105 100  
 120 42.3 38.6 58.0



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.335 ppbv  
 RT: 16.74 min Scan# 4341  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Tgt Ion:105 Resp: 130543  
 Ion Ratio Lower Upper  
 105 100  
 120 47.9 40.6 61.0  
 91 48.0 37.4 56.0  
 77 20.1 16.2 24.4

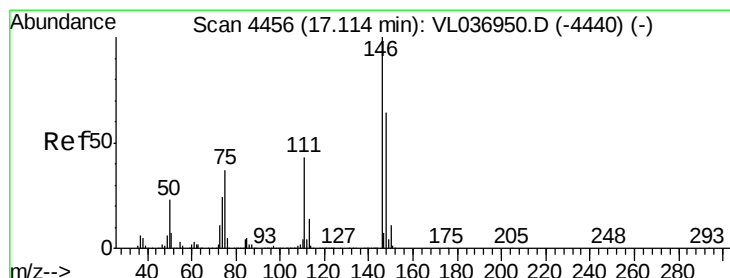
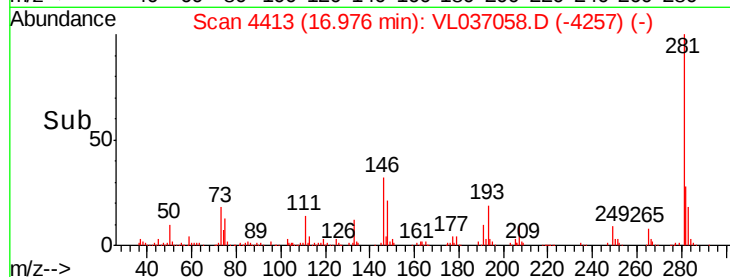
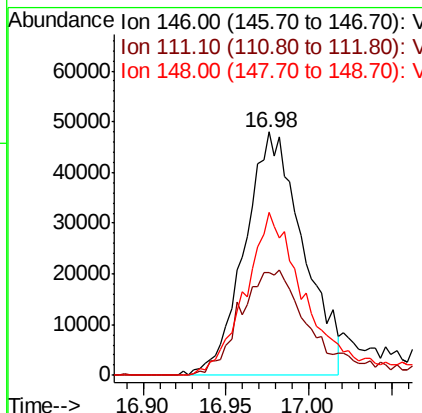
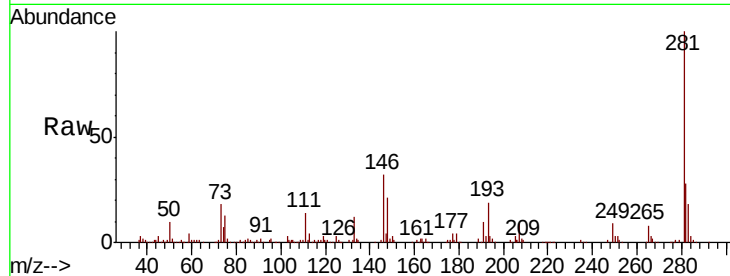




#75  
 1,3-Dichlorobenzene  
 Concen: 0.495 ppbv  
 RT: 16.98 min Scan# 4413  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

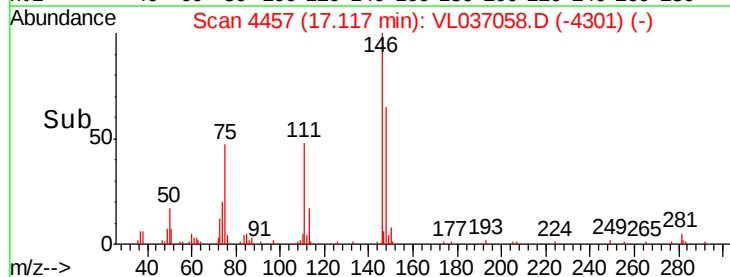
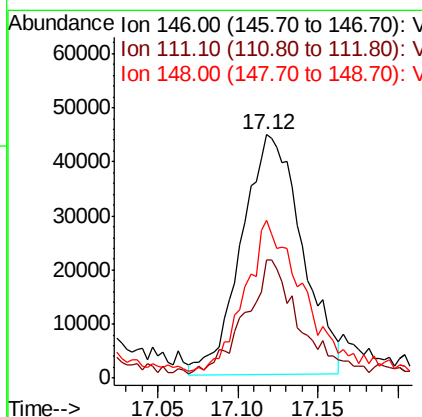
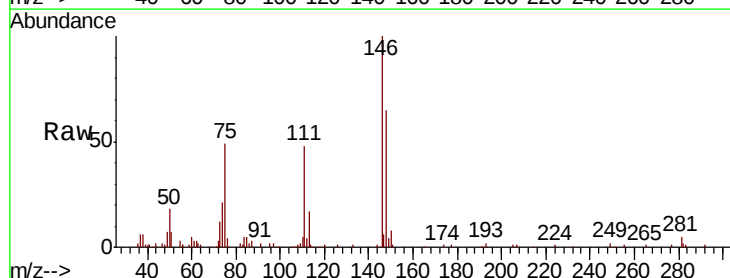
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

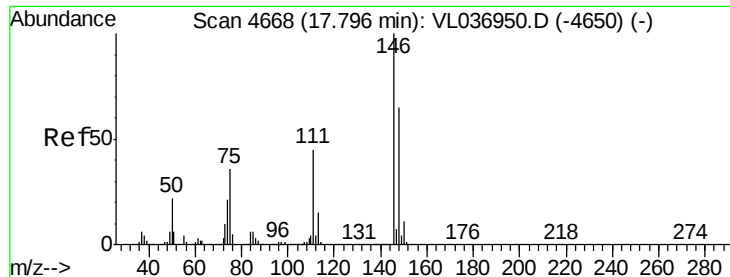
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 52.0  | 22.2  | 66.6  |
| 148     | 71.0  | 32.3  | 96.8  |



#76  
 1,4-Dichlorobenzene  
 Concen: 0.480 ppbv  
 RT: 17.12 min Scan# 4457  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 50.6  | 22.6  | 67.7  |
| 148     | 74.8  | 33.5  | 100.5 |





#77

1,2-Dichlorobenzene

Concen: 0.476 ppbv

RT: 17.80 min Scan# 4669

Delta R.T. 0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

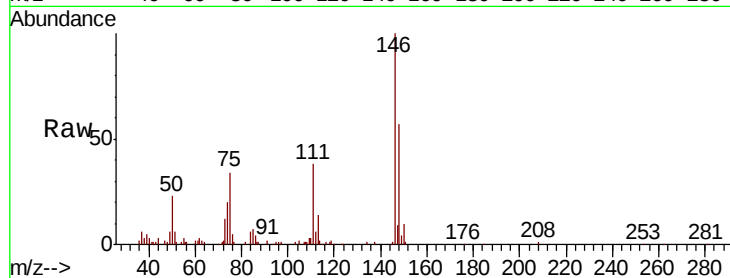
Tot Ion:146 Resp: 113744

Ion Ratio Lower Upper

146 100

111 53.0 23.1 69.2

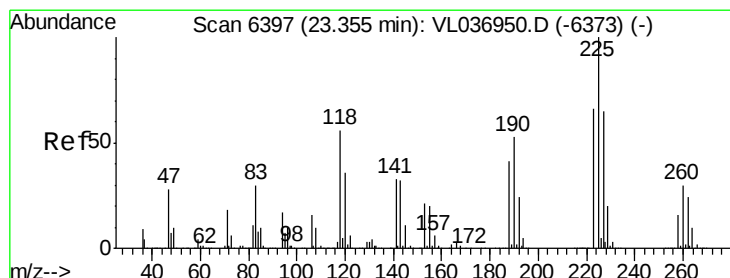
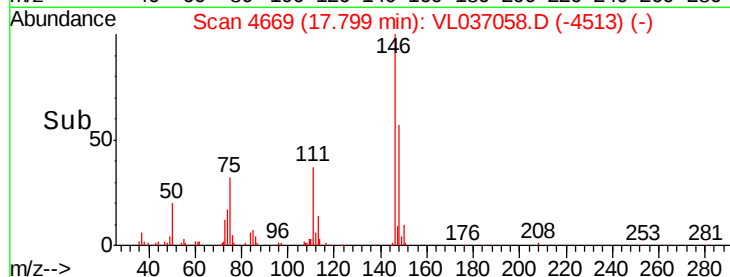
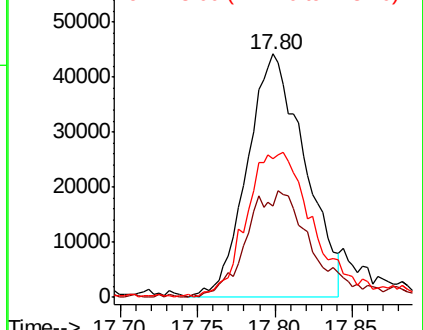
148 72.0 32.5 97.4



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: 0.324 ppbv

RT: 23.35 min Scan# 6397

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

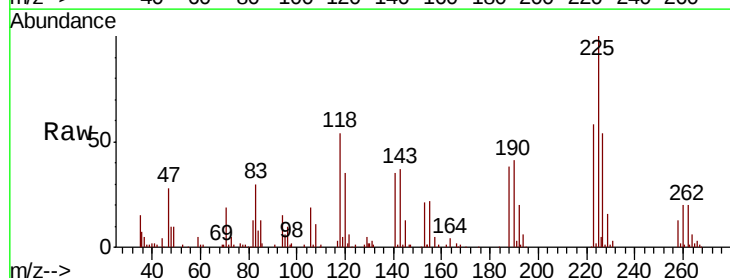
Tgt Ion:225 Resp: 62111

Ion Ratio Lower Upper

225 100

223 0.0 51.9 77.9#

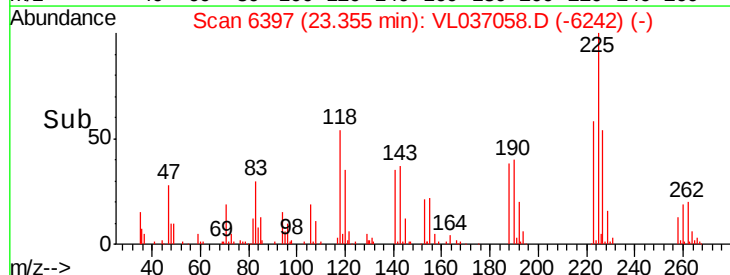
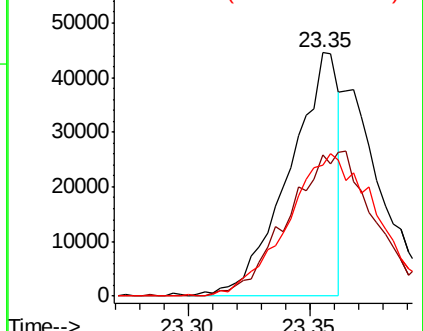
227 111.9 51.8 77.6#

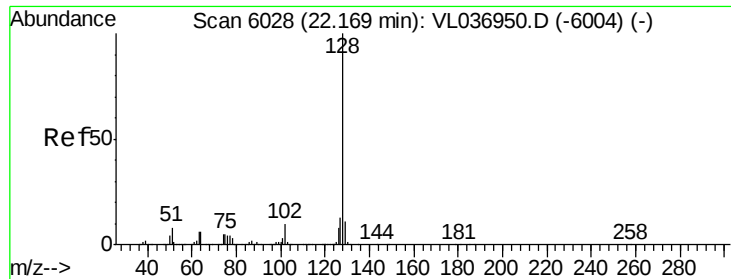


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.131 ppbv

RT: 22.18 min Scan# 6032

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

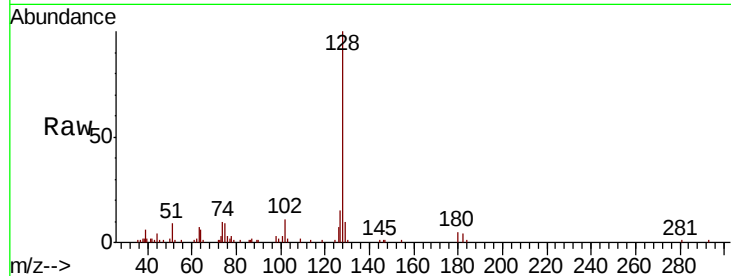
Tot Ion:128 Resp: 40060

Ion Ratio Lower Upper

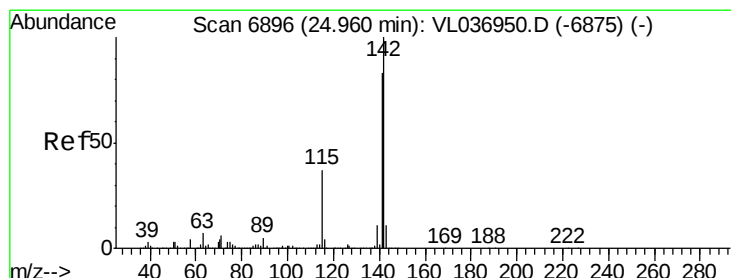
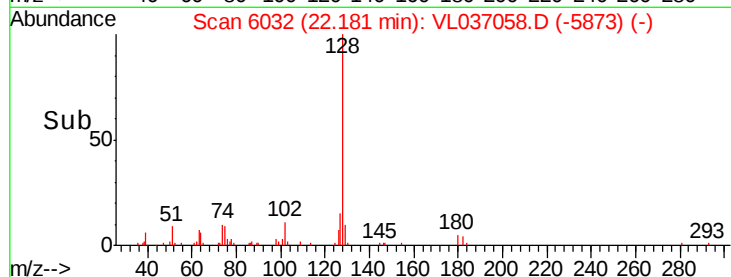
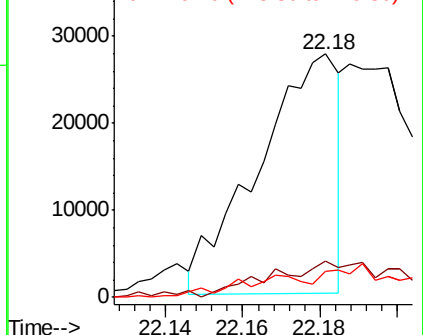
128 100

127 13.4 10.4 15.6

129 9.1 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: 0.080 ppbv

RT: 24.99 min Scan# 6906

Delta R.T. 0.03 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

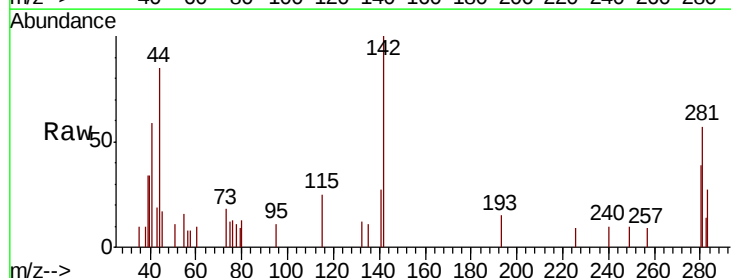
Tgt Ion:142 Resp: 5348

Ion Ratio Lower Upper

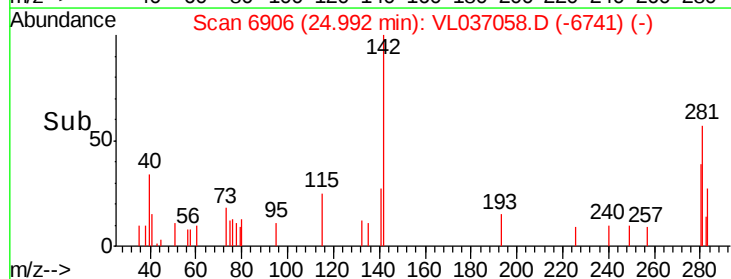
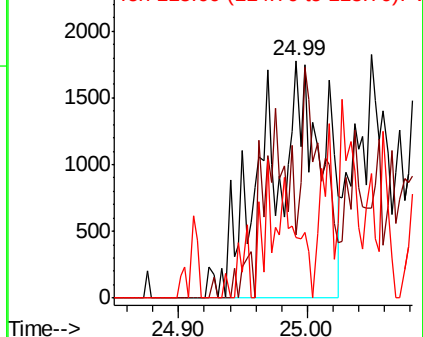
142 100

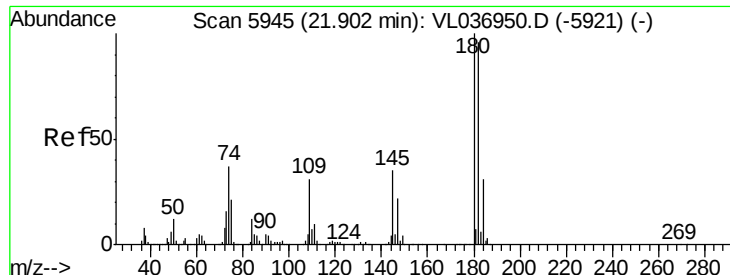
141 32.7 69.3 103.9#

115 0.0 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: 0.139 ppbv

RT: 21.90 min Scan# 5946

Delta R.T. 0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion:180 Resp: 25944

Ion Ratio Lower Upper

180 100

182 0.0 81.7 122.5#

184 0.0 24.9 37.3#

