

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL032222\  
 Data File : VL038701.D  
 Acq On : 23 Mar 2022 2:23  
 Operator : SY/AP  
 Sample : N2046-01DUP  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P89DUP

Quant Time: Mar 23 04:17:56 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 21 17:09:26 2022  
 QLast Update : Mon Mar 21 17:09:26 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 836120   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 2299244  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 2114183  | 10.00 | ppbv  | -0.02    |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 1528199  | 9.43     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 94.30% |

## Target Compounds

|                            |       |     |         |       |        | Qvalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 2) Dichlorodifluoromethane | 3.04  | 85  | 18618   | 0.17  | ppbv   | 96     |
| 3) Chlorodifluoromethane   | 2.98  | 51  | 35654   | 0.40  | ppbv # | 89     |
| 4) Chloromethane           | 3.13  | 50  | 8845    | 0.18  | ppbv   | 94     |
| 7) Chloroethane            | 3.55  | 64  | 410     | 0.03  | ppbv   | 91     |
| 9) Propene                 | 3.01  | 41  | 93451   | 2.19  | ppbv   | 91     |
| 10) Heptane                | 8.10  | 43  | 6234    | 0.06  | ppbv # | 61     |
| 11) Trichlorofluoromethane | 3.94  | 101 | 18830   | 0.19  | ppbv   | 86     |
| 13) Ethanol                | 3.59  | 45  | 267095  | 56.79 | ppbv   | 98     |
| 15) Acetone                | 3.83  | 43  | 1475205 | 20.45 | ppbv   | 93     |
| 16) 1,3-Butadiene          | 3.30  | 39  | 136294  | 3.33  | ppbv # | 14     |
| 17) tert-Butyl alcohol     | 4.28  | 59  | 59083   | 0.94  | ppbv   | 98     |
| 18) 1,1-Dichloroethene     | 4.27  | 96  | 1739    | 0.05  | ppbv # | 56     |
| 19) Isopropyl Alcohol      | 3.95  | 45  | 142486  | 3.56  | ppbv # | 1      |
| 20) Methylene Chloride     | 4.33  | 84  | 49078   | 1.62  | ppbv   | 96     |
| 21) Allyl Chloride         | 4.28  | 41  | 10288   | 0.20  | ppbv # | 73     |
| 23) Vinyl Acetate          | 5.04  | 43  | 31195   | 0.45  | ppbv # | 1      |
| 25) Ethyl Acetate          | 5.66  | 43  | 87067   | 0.48  | ppbv # | 91     |
| 26) Hexane                 | 5.67  | 57  | 73613   | 0.91  | ppbv # | 59     |
| 27) Carbon Disulfide       | 4.53  | 76  | 13627   | 0.17  | ppbv # | 61     |
| 29) Chloroform             | 5.74  | 83  | 108604  | 0.83  | ppbv   | 97     |
| 30) Cyclohexane            | 7.11  | 84  | 7025    | 0.10  | ppbv # | 1      |
| 32) 1,1,1-Trichloroethane  | 6.49  | 97  | 18116   | 0.14  | ppbv   | 97     |
| 34) 2-Butanone             | 5.22  | 43  | 1678523 | 18.44 | ppbv   | 98     |
| 35) Carbon Tetrachloride   | 7.00  | 117 | 2820    | 0.02  | ppbv # | 78     |
| 36) Benzene                | 6.87  | 78  | 33516   | 0.19  | ppbv   | 98     |
| 38) Trichloroethene        | 7.81  | 130 | 10055   | 0.14  | ppbv   | 89     |
| 39) 1,2-Dichloropropane    | 7.15  | 63  | 509578  | 7.35  | ppbv # | 28     |
| 41) Tetrahydrofuran        | 6.04  | 42  | 41840   | 0.62  | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane | 7.85  | 57  | 19417   | 0.07  | ppbv # | 11     |
| 50) 4-Methyl-2-Pentanone   | 8.73  | 43  | 5981    | 0.04  | ppbv # | 38     |
| 51) 2-Hexanone             | 10.12 | 43  | 140380  | 1.16  | ppbv # | 98     |
| 52) Tetrachloroethene      | 11.20 | 164 | 4314011 | 66.43 | ppbv   | 94     |
| 53) Toluene                | 9.78  | 91  | 694372  | 3.64  | ppbv   | 99     |
| 58) Ethyl Benzene          | 12.69 | 91  | 25970   | 0.11  | ppbv   | 96     |
| 59) m/p-Xylene             | 12.97 | 91  | 16913   | 0.08  | ppbv # | 30     |
| 60) o-Xylene               | 13.67 | 91  | 33881   | 0.17  | ppbv   | 95     |
| 61) Styrene                | 13.50 | 104 | 9831    | 0.09  | ppbv # | 79     |
| 65) tert-Butylbenzene      | 16.96 | 119 | 106530  | 0.38  | ppbv # | 27     |
| 66) Benzyl Chloride        | 16.96 | 91  | 1803    | 0.03  | ppbv # | 65     |
| 69) p-Isopropyltoluene     | 17.62 | 119 | 12376   | 0.04  | ppbv # | 48     |
| 72) 4-Ethyltoluene         | 15.81 | 105 | 5390    | 0.02  | ppbv # | 35     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL032222\  
Data File : VL038701.D  
Acq On : 23 Mar 2022 2:23  
Operator : SY/AP  
Sample : N2046-01DUP  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

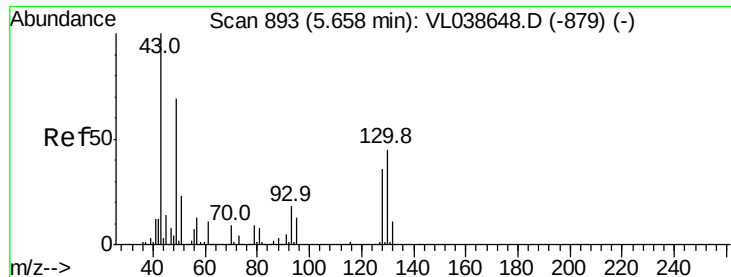
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P89DUP

Quant Time: Mar 23 04:17:56 2022  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 21 17:09:26 2022  
QLast Update : Mon Mar 21 17:09:26 2022  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|----------------------------|-------|------|----------|------|--------|----------|
| 74) 1,2,4-Trimethylbenzene | 16.74 | 105  | 31203    | 0.13 | ppbv # | 75       |
| 75) 1,3-Dichlorobenzene    | 16.97 | 146  | 25481    | 0.17 | ppbv # | 1        |

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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: COP89DUP

Acq: 23 Mar 2022 2:23

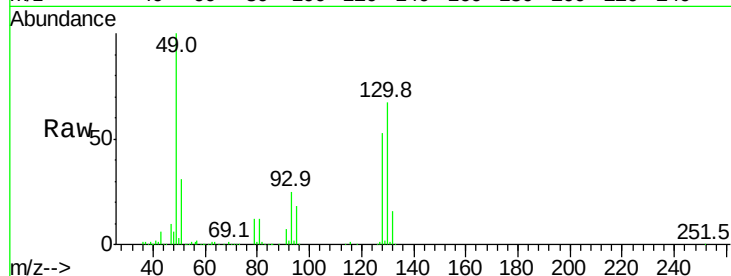
Tgt Ion: 49 Resp: 836120

Ion Ratio Lower Upper

49 100

128 55.0 26.2 78.6

130 70.8 33.7 101.1



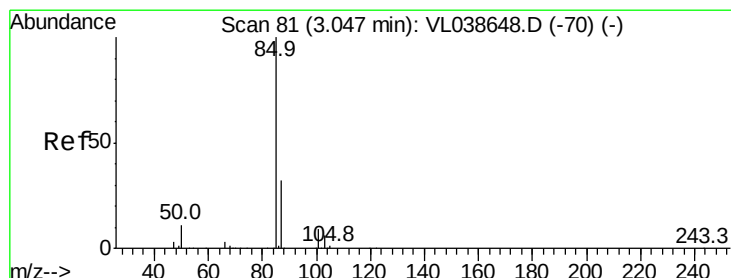
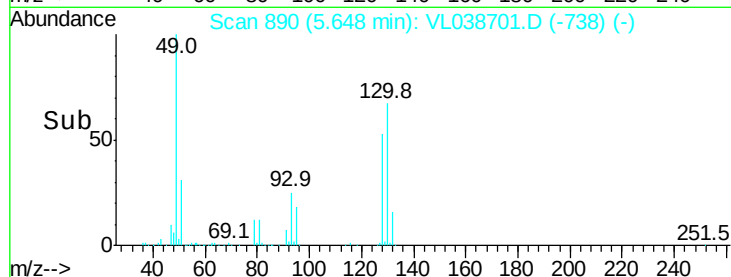
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 0.17 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL038701.D

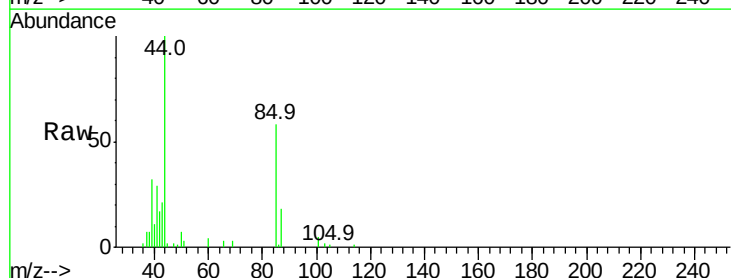
Acq: 23 Mar 2022 2:23

Tgt Ion: 85 Resp: 18618

Ion Ratio Lower Upper

85 100

87 30.3 26.0 39.0

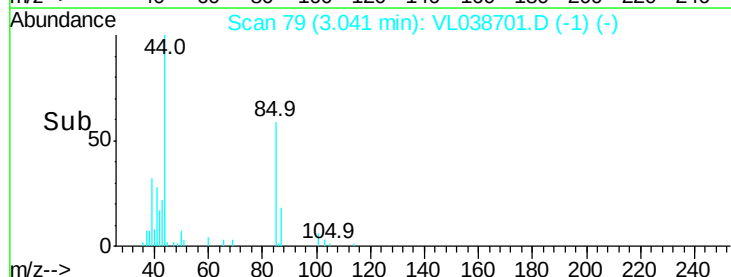


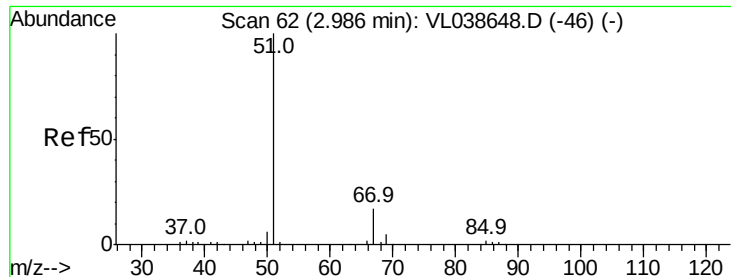
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.04

Time-->





#3

Chlorodifluoromethane

Concen: 0.40 ppbv

RT: 2.98 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

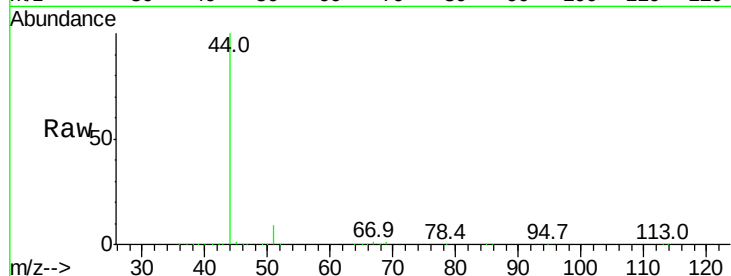
Acq: 23 Mar 2022 2:23

Tgt Ion: 51 Resp: 35654

Ion Ratio Lower Upper

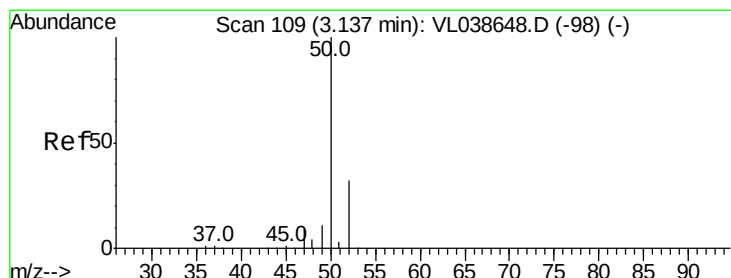
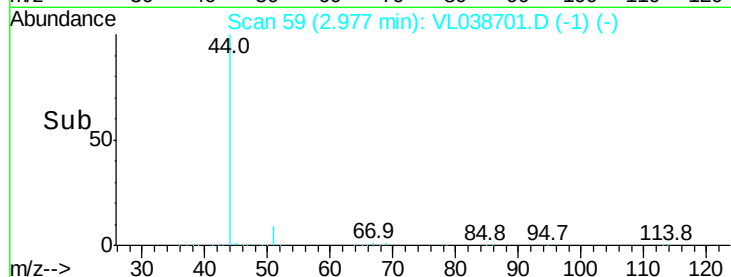
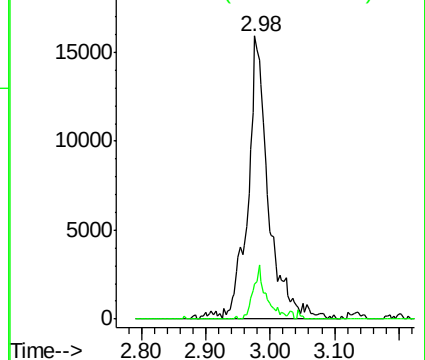
51 100

67 12.9 14.1 21.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.18 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL038701.D

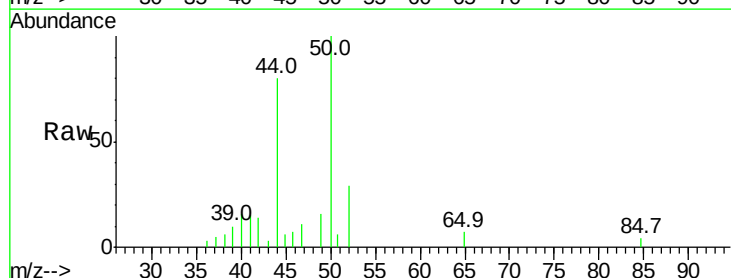
Acq: 23 Mar 2022 2:23

Tgt Ion: 50 Resp: 8845

Ion Ratio Lower Upper

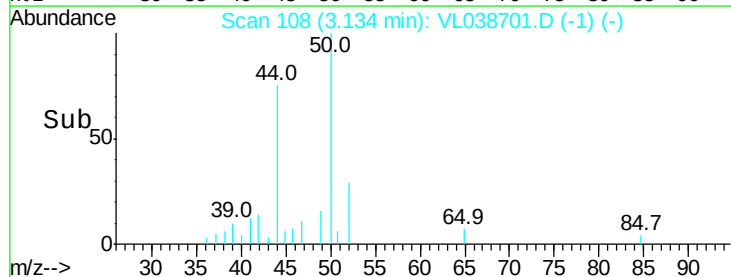
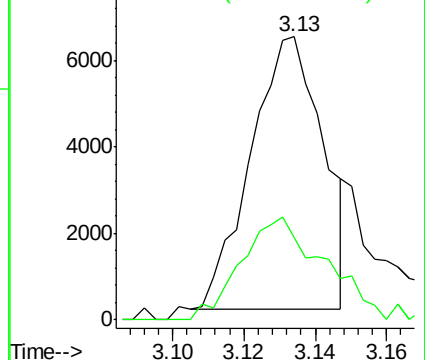
50 100

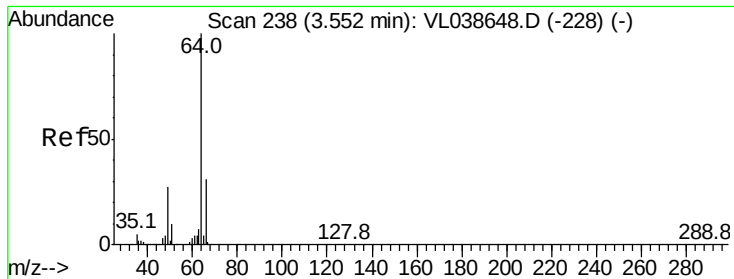
52 28.5 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.03 ppbv

RT: 3.55 Instrument: MSVOA\_1

Delta R.T. -0.00 min

Lab File: ClientSampleId :

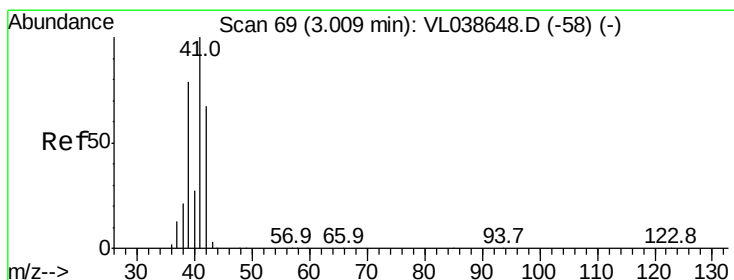
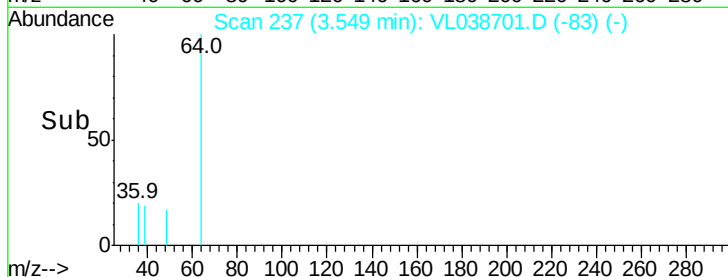
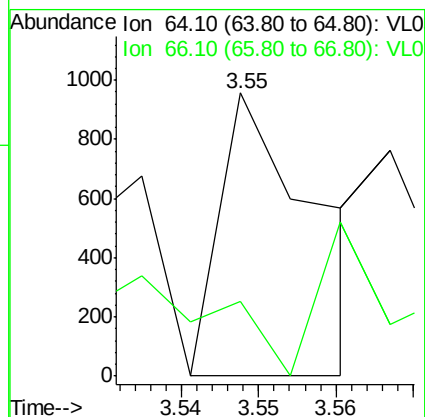
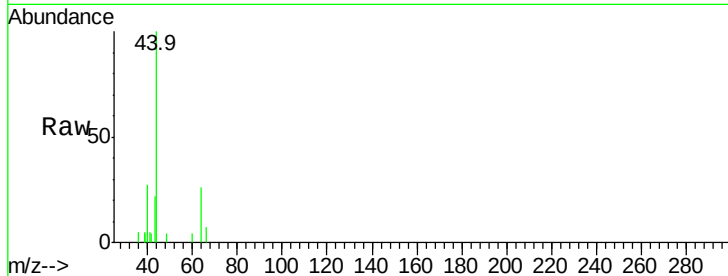
Acq: 23 Mar 2022 2:23

Tgt Ion: 64 Resp: 410

Ion Ratio Lower Upper

64 100

66 26.4 25.0 37.6



#9

Propene

Concen: 2.19 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL038701.D

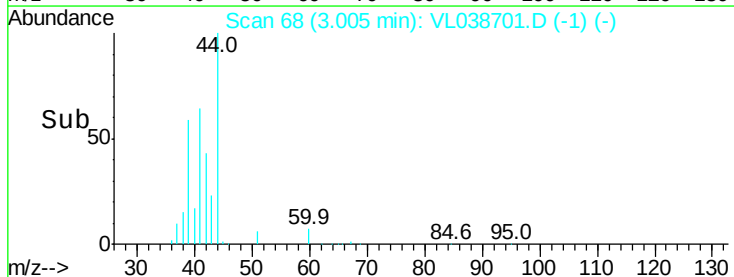
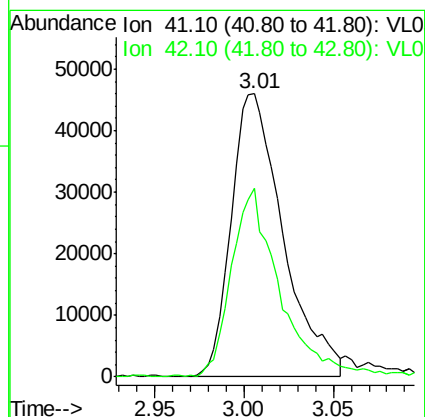
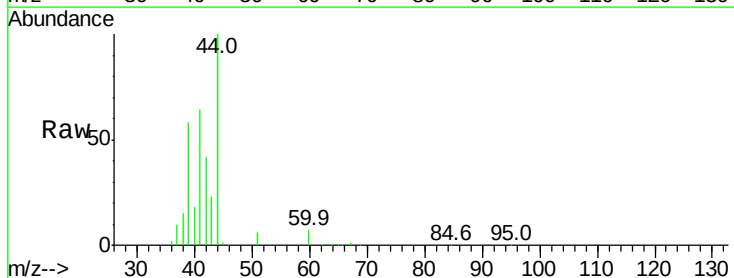
Acq: 23 Mar 2022 2:23

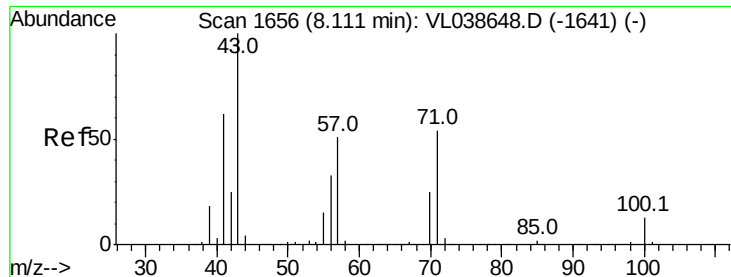
Tgt Ion: 41 Resp: 93451

Ion Ratio Lower Upper

41 100

42 63.1 56.2 84.4





#10

Heptane

Concen: 0.06 ppbv

RT: 8.10 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: COP89DUP

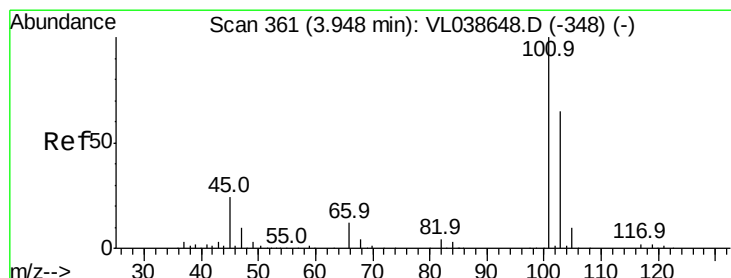
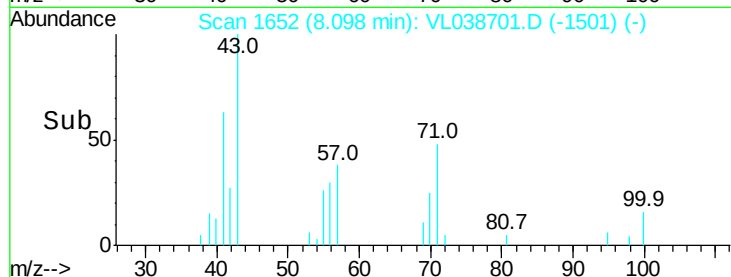
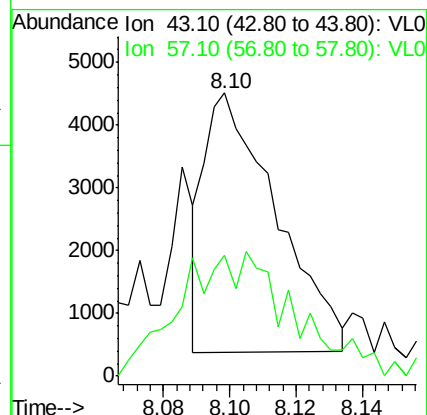
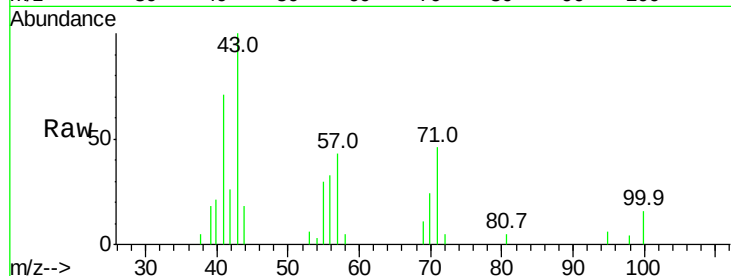
Acq: 23 Mar 2022 2:23

Tgt Ion: 43 Resp: 6234

Ion Ratio Lower Upper

43 100

57 79.3 41.4 62.2#



#11

Trichlorofluoromethane

Concen: 0.19 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.01 min

Lab File: VL038701.D

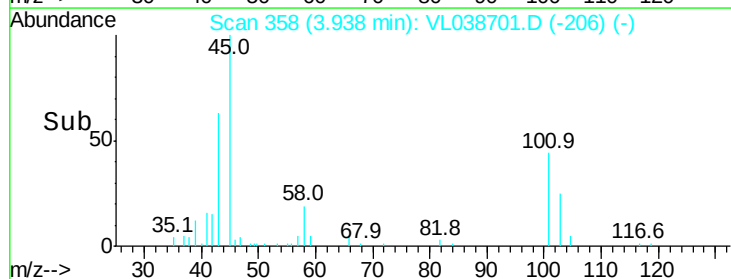
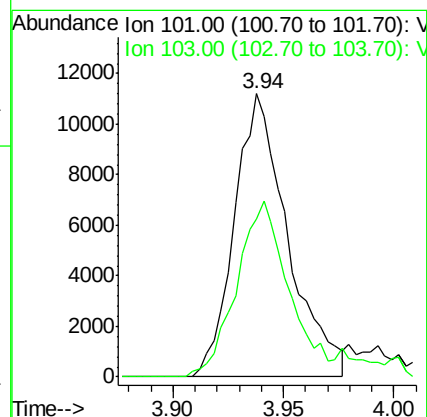
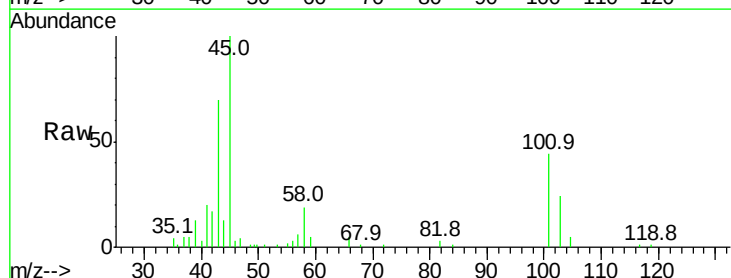
Acq: 23 Mar 2022 2:23

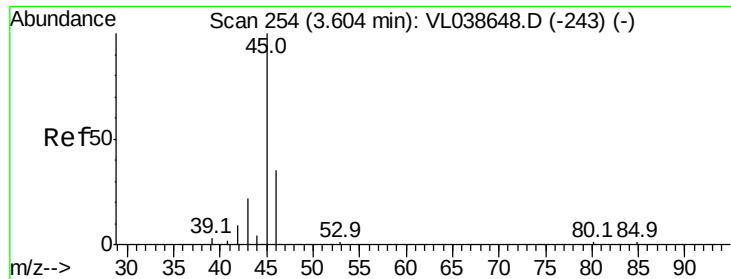
Tgt Ion: 101 Resp: 18830

Ion Ratio Lower Upper

101 100

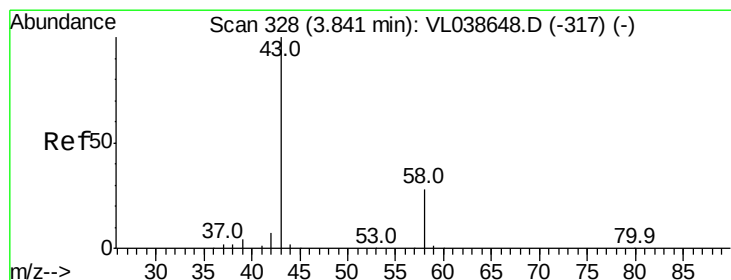
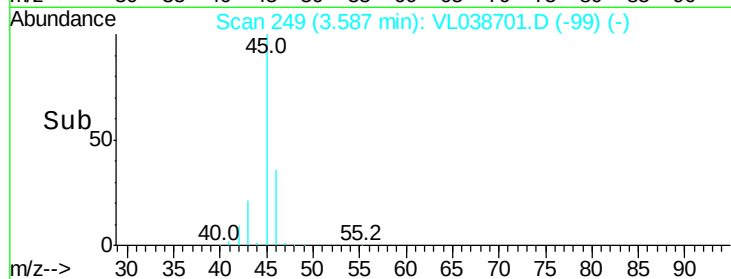
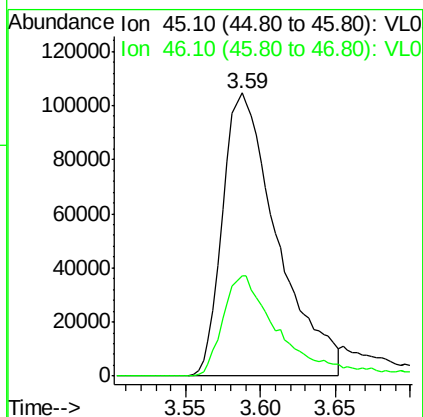
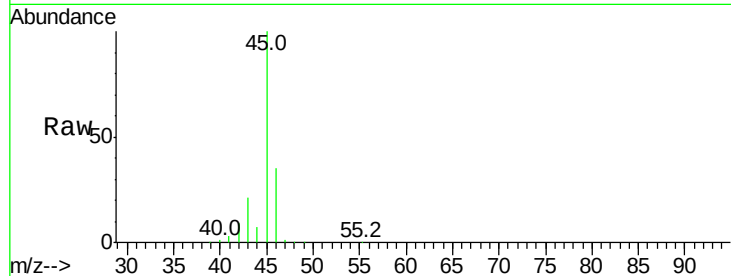
103 53.8 51.9 77.9





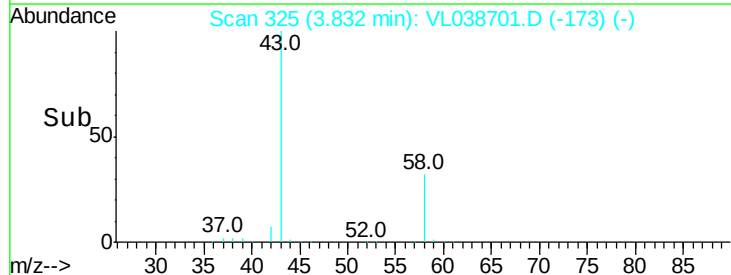
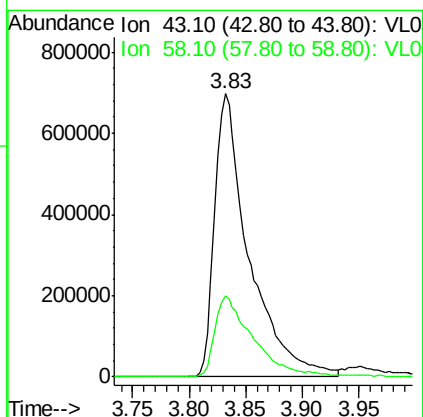
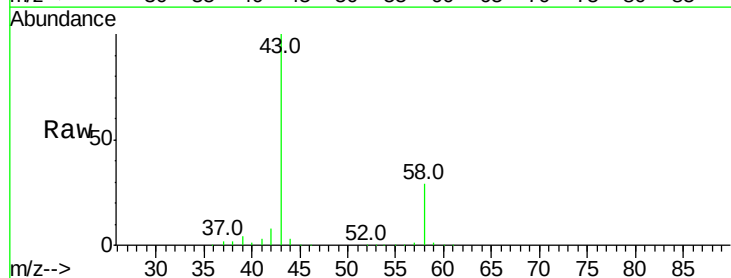
#13  
 Ethanol  
 Concen: 56.79 ppbv  
 RT: 3.59  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 23 Mar 2022 2:23

Tgt Ion: 45 Resp: 267095  
 Ion Ratio Lower Upper  
 45 100  
 46 39.0 15.1 60.5

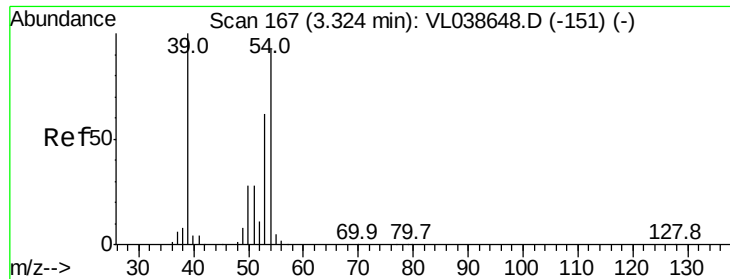


#15  
 Acetone  
 Concen: 20.45 ppbv  
 RT: 3.83 min Scan# 325  
 Delta R.T. -0.01 min  
 Lab File: VL038701.D  
 Acq: 23 Mar 2022 2:23

Tgt Ion: 43 Resp: 1475205  
 Ion Ratio Lower Upper  
 43 100  
 58 32.7 23.3 34.9

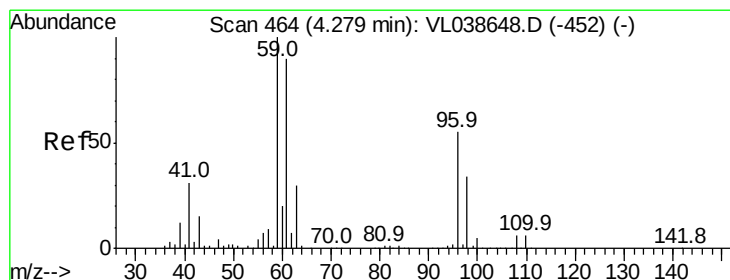
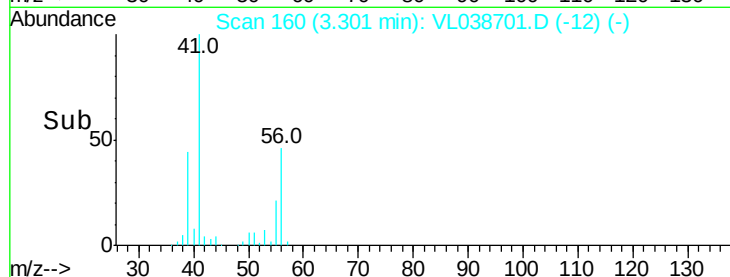
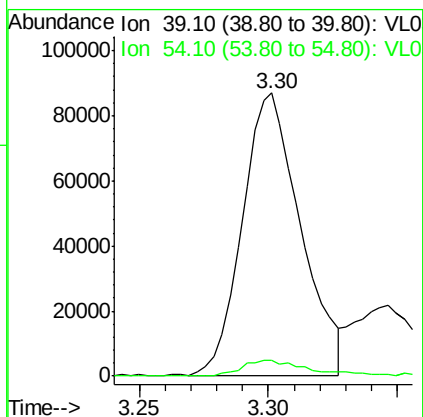
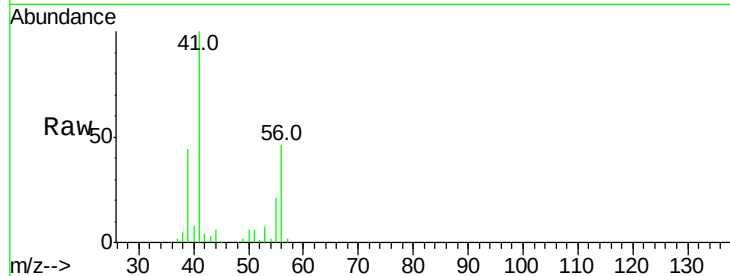






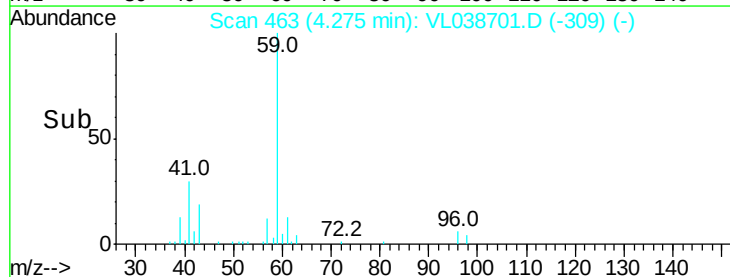
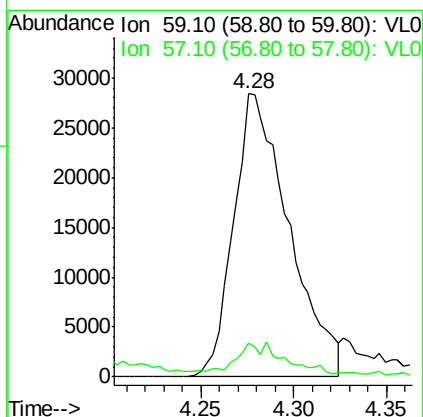
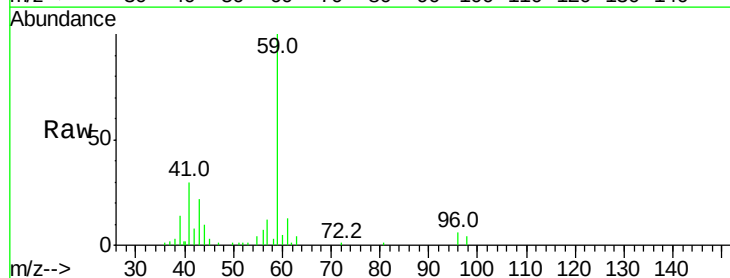
#16  
 1,3-Butadiene  
 Concen: 3.33 ppbv  
 RT: 3.30  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 C0P89DUP  
 Acq: 23 Mar 2022 2:23

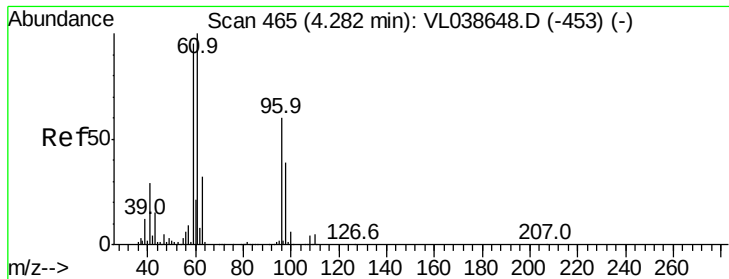
Tgt Ion: 39 Resp: 136294  
 Ion Ratio Lower Upper  
 39 100  
 54 7.0 69.1 103.7#



#17  
 tert-Butyl alcohol  
 Concen: 0.94 ppbv  
 RT: 4.28 min Scan# 463  
 Delta R.T. -0.00 min  
 Lab File: VL038701.D  
 Acq: 23 Mar 2022 2:23

Tgt Ion: 59 Resp: 59083  
 Ion Ratio Lower Upper  
 59 100  
 57 11.1 8.2 12.2





#18

1,1-Dichloroethene

Concen: 0.05 ppbv

RT: 4.27 Instrument: MSVOA\_1

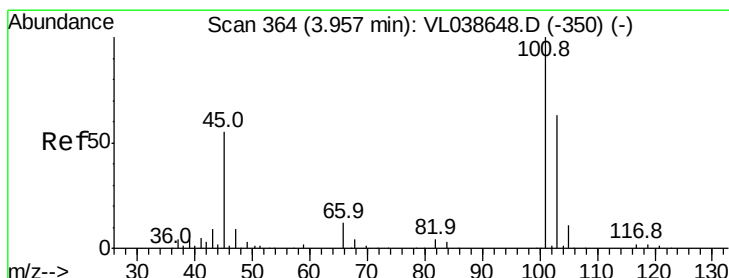
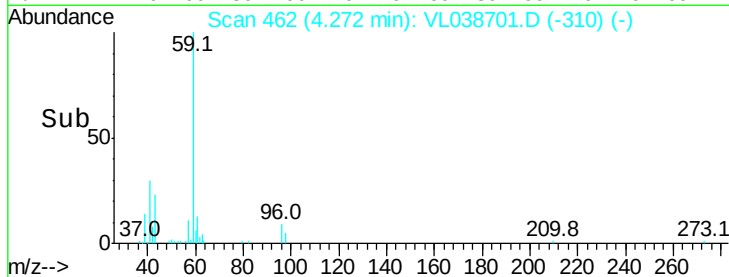
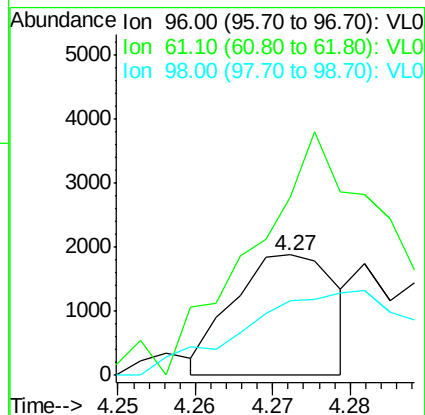
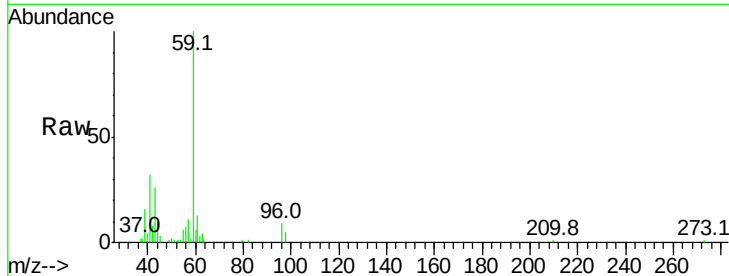
Delta R.T.

Lab File: ClientSampleId:

Acq: 23 Mar 2022 2:23

Tgt Ion: 96 Resp: 1739

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 96  | 100   |       |        |
| 61  | 95.4  | 132.4 | 198.6# |
| 98  | 45.0  | 51.6  | 77.4#  |



#19

Isopropyl Alcohol

Concen: 3.56 ppbv

RT: 3.95 min Scan# 363

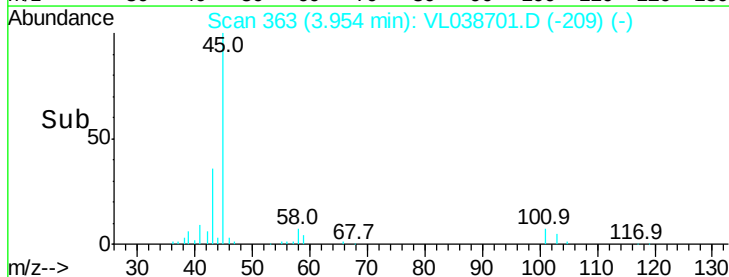
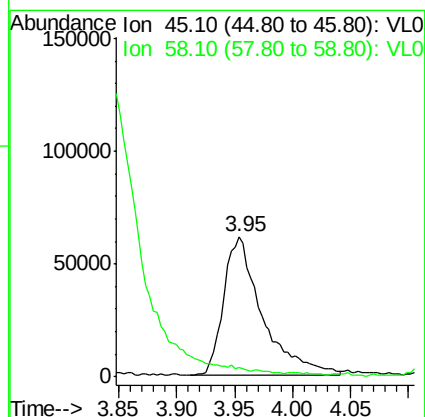
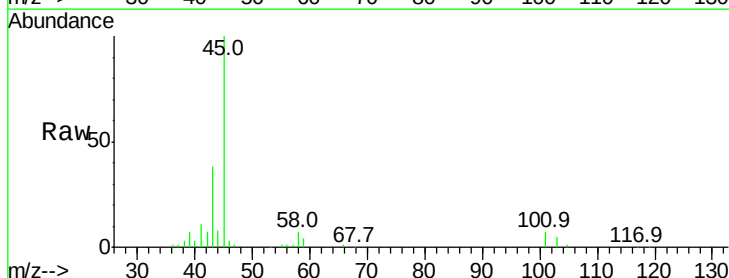
Delta R.T. -0.00 min

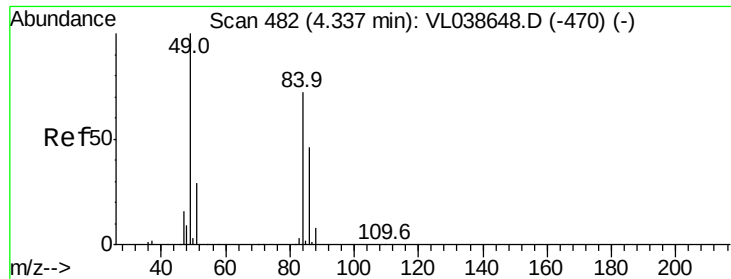
Lab File: VL038701.D

Acq: 23 Mar 2022 2:23

Tgt Ion: 45 Resp: 142486

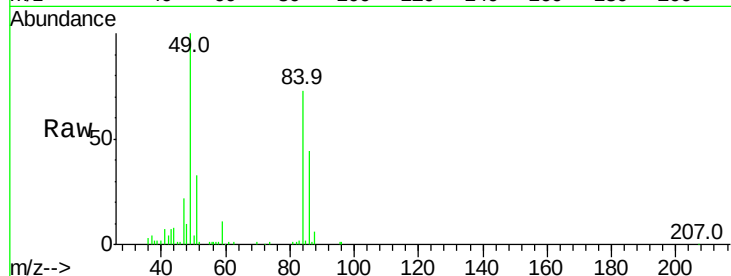
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 58  | 338.5 | 2.3   | 3.5#  |



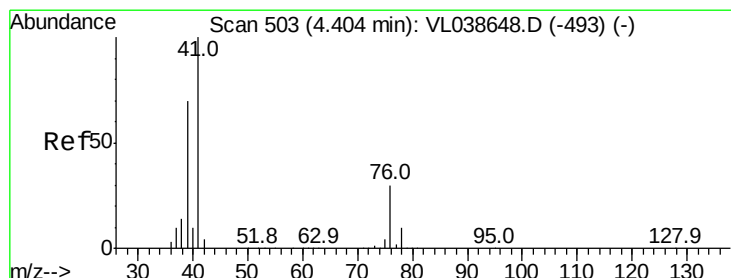
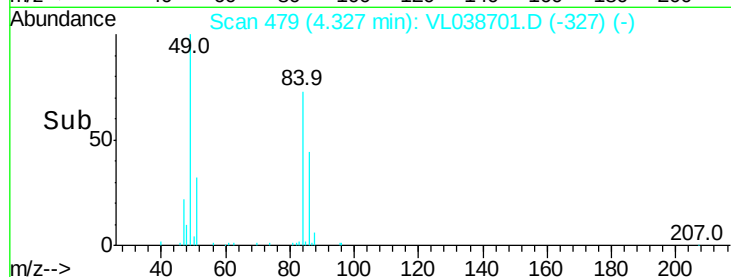
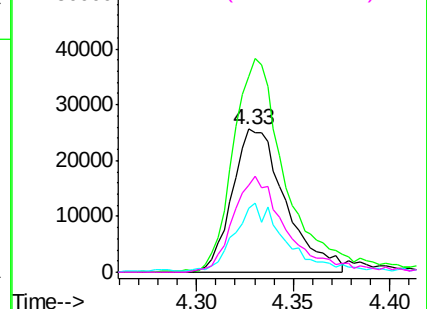


#20  
Methylene Chloride  
Concen: 1.62 ppbv  
RT: 4.33  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 23 Mar 2022 2:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 49078 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 136.0 | 111.2 | 166.8 |
| 51       | 44.0  | 32.8  | 49.2  |
| 86       | 59.8  | 51.4  | 77.0  |

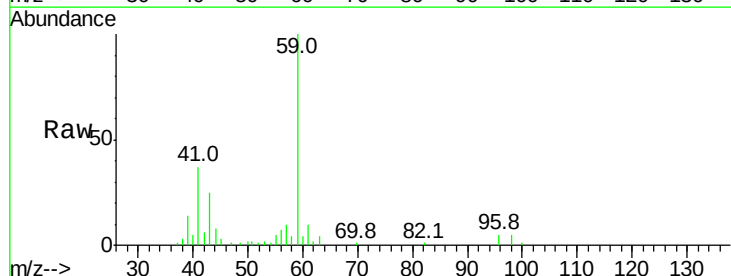


Abundance Ion 84.00 (83.70 to 84.70): VL0  
Ion 49.10 (48.80 to 49.80): VL0  
Ion 51.10 (50.80 to 51.80): VL0  
Ion 86.00 (85.70 to 86.70): VL0

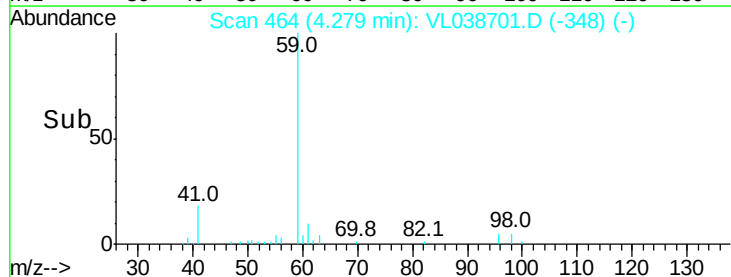
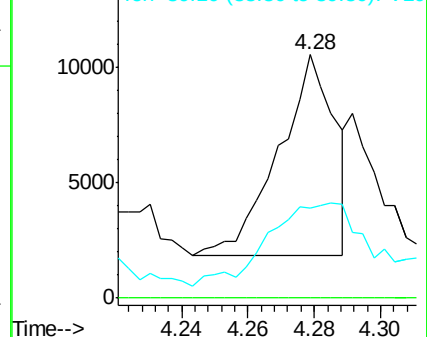


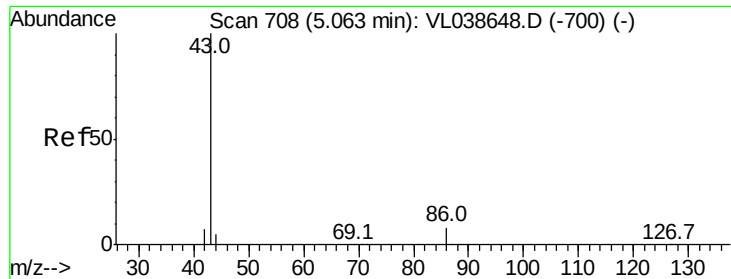
#21  
Allyl Chloride  
Concen: 0.20 ppbv  
RT: 4.28 min Scan# 464  
Delta R.T. -0.13 min  
Lab File: VL038701.D  
Acq: 23 Mar 2022 2:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 10288 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 0.0   | 25.0  | 37.6# |
| 39       | 82.4  | 56.6  | 85.0  |



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





#23

Vinyl Acetate

Concen: 0.45 ppbv

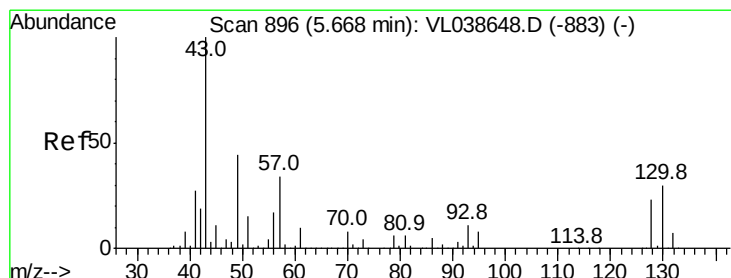
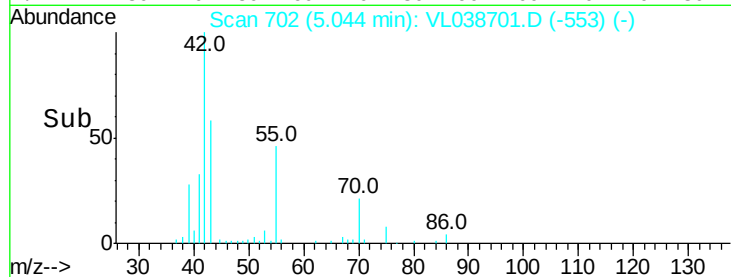
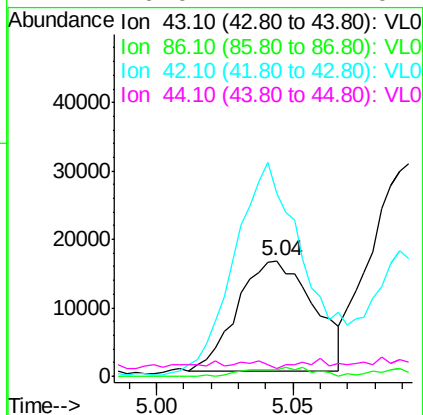
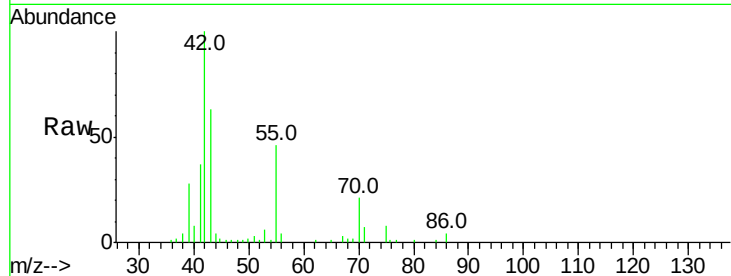
RT: 5.04 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: C0P89DUP

Acq: 23 Mar 2022 2:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 31195 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 6.0   | 5.6   | 8.4   |
| 42       | 155.6 | 6.8   | 10.2# |
| 44       | 0.0   | 4.2   | 6.2#  |



#25

Ethyl Acetate

Concen: 0.48 ppbv

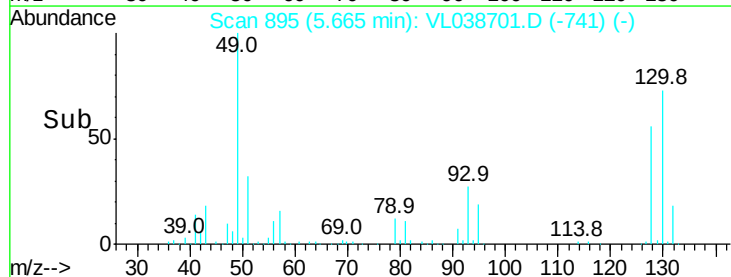
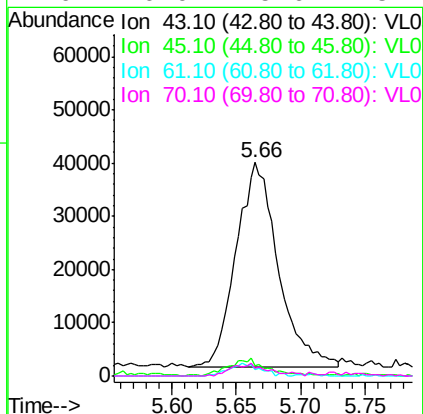
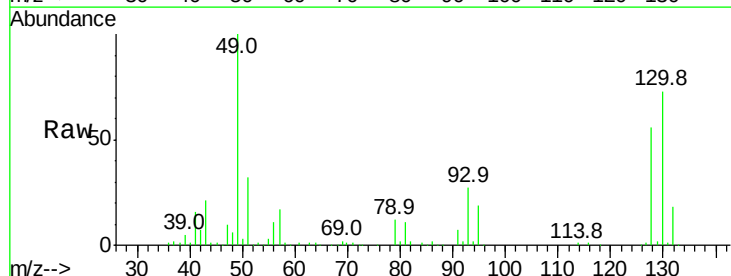
RT: 5.66 min Scan# 895

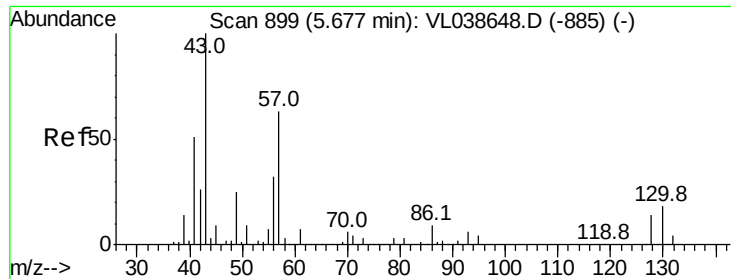
Delta R.T. -0.00 min

Lab File: VL038701.D

Acq: 23 Mar 2022 2:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 87067 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 7.8   | 8.2   | 12.4# |
| 61       | 4.7   | 8.3   | 12.5# |
| 70       | 6.0   | 5.6   | 8.4   |





#26

Hexane

Concen: 0.91 ppbv

RT: 5.67

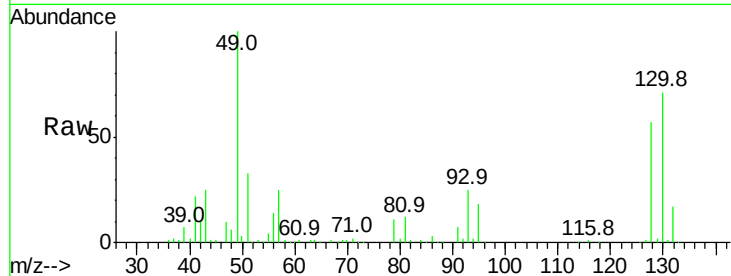
Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

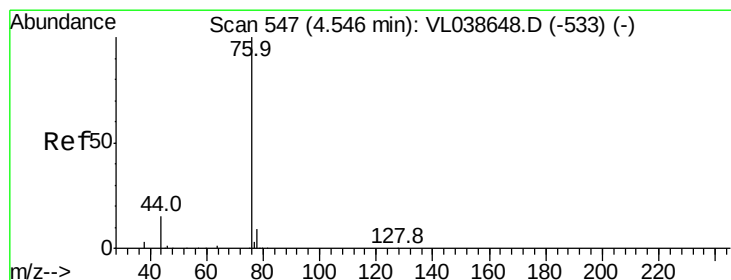
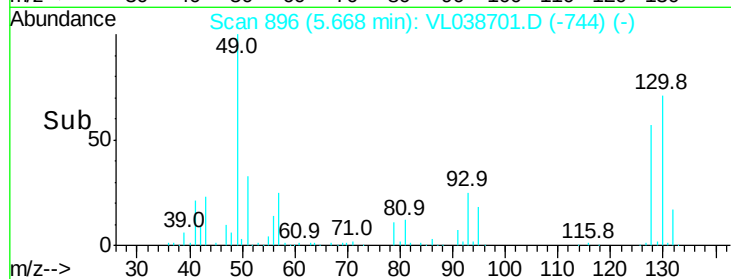
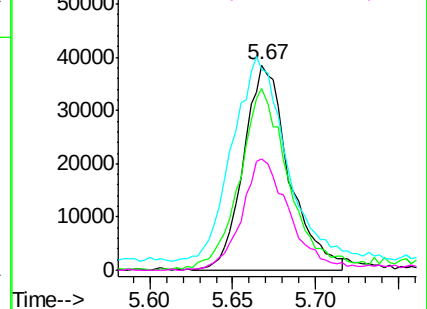
Acq: 23 Mar 2022 2:23

Tgt Ion: 57 Resp: 73613

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 57  | 100   |       |        |
| 41  | 103.2 | 67.0  | 100.4# |
| 43  | 136.6 | 184.2 | 276.2# |
| 56  | 57.7  | 42.6  | 64.0   |



Abundance Ion 57.10 (56.80 to 57.80): VL0  
 Ion 41.10 (40.80 to 41.80): VL0  
 Ion 43.10 (42.80 to 43.80): VL0  
 Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.17 ppbv

RT: 4.53 min Scan# 543

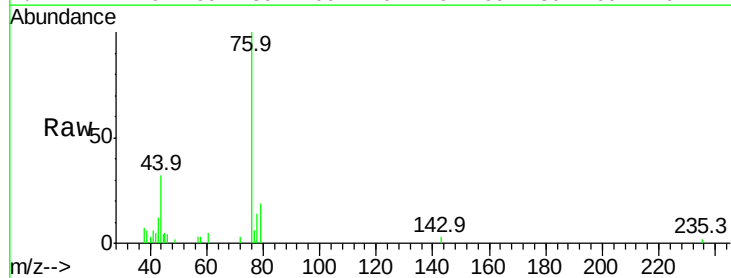
Delta R.T. -0.01 min

Lab File: VL038701.D

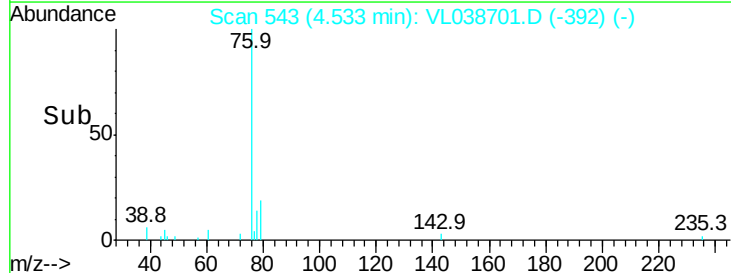
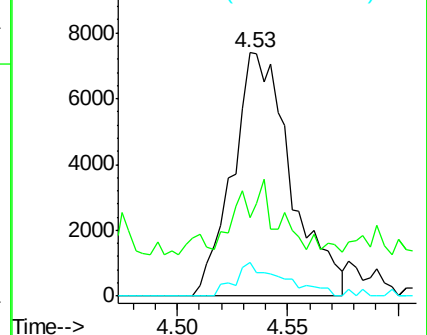
Acq: 23 Mar 2022 2:23

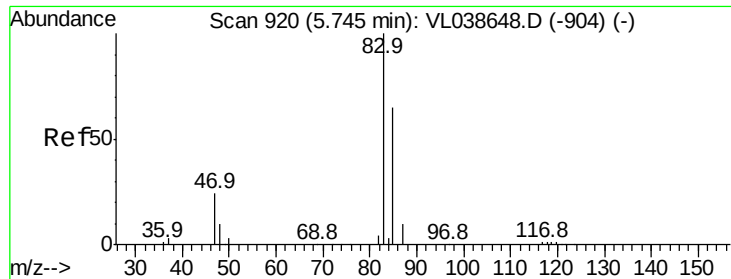
Tgt Ion: 76 Resp: 13627

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 40.8  | 12.4  | 18.6# |
| 78  | 11.9  | 7.8   | 11.8# |



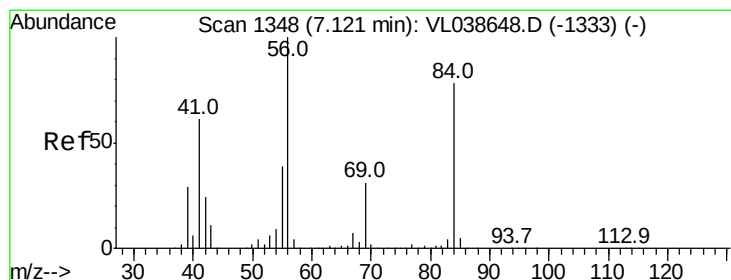
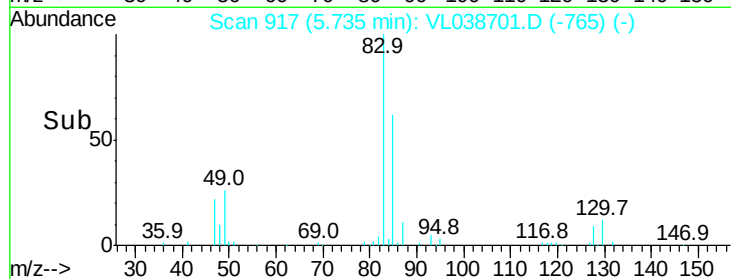
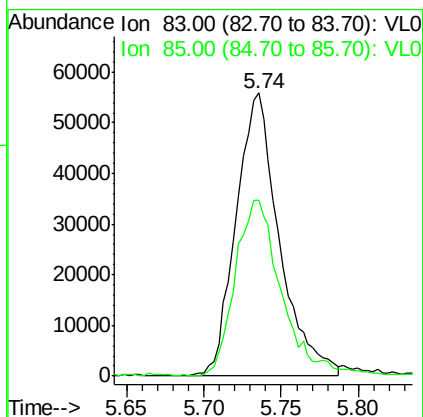
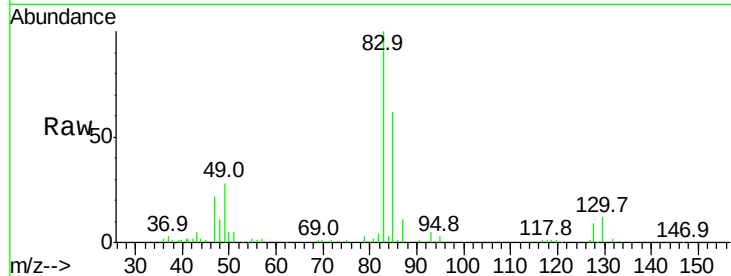
Abundance Ion 76.00 (75.70 to 76.70): VL0  
 Ion 44.10 (43.80 to 44.80): VL0  
 Ion 78.00 (77.70 to 78.70): VL0





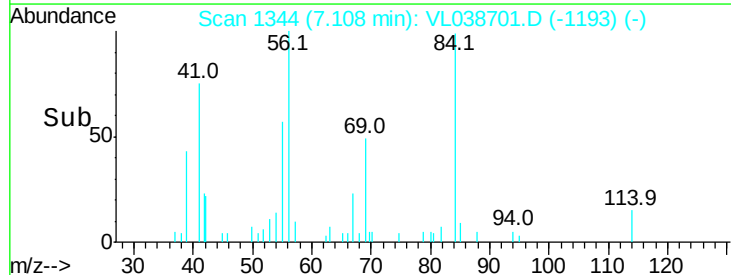
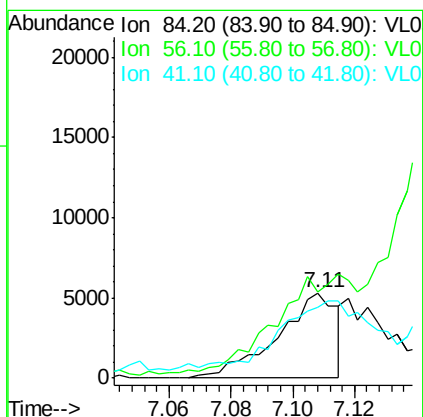
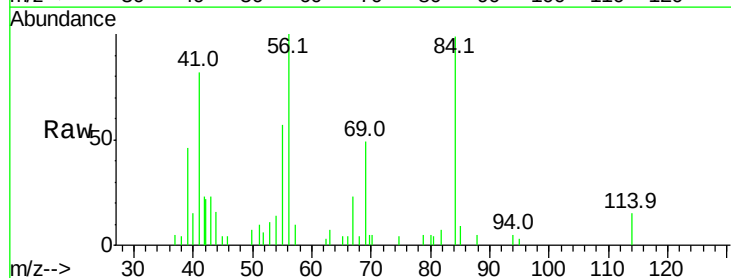
#29  
Chloroform  
Concen: 0.83 ppbv  
RT: 5.74  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
COP89DUP  
Acq: 23 Mar 2022 2:23

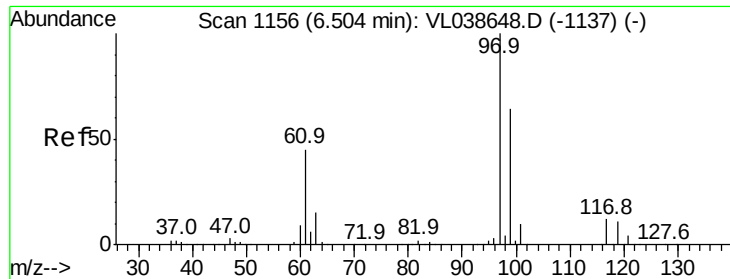
Tgt Ion: 83 Resp: 108604  
Ion Ratio Lower Upper  
83 100  
85 62.0 51.7 77.5



#30  
Cyclohexane  
Concen: 0.10 ppbv  
RT: 7.11 min Scan# 1344  
Delta R.T. -0.01 min  
Lab File: VL038701.D  
Acq: 23 Mar 2022 2:23

Tgt Ion: 84 Resp: 7025  
Ion Ratio Lower Upper  
84 100  
56 0.0 108.2 162.4#  
41 207.6 61.8 92.6#





#32

1,1,1-Trichloroethane

Concen: 0.14 ppbv

RT: 6.49

Instrument: MSVOA\_1

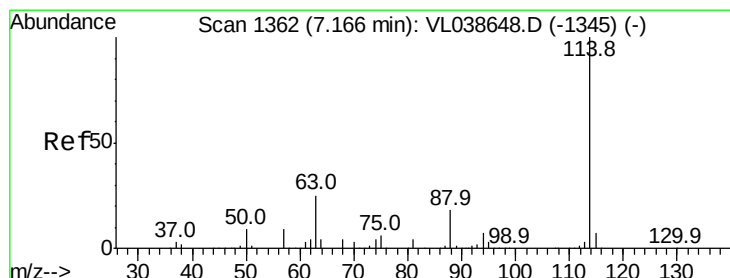
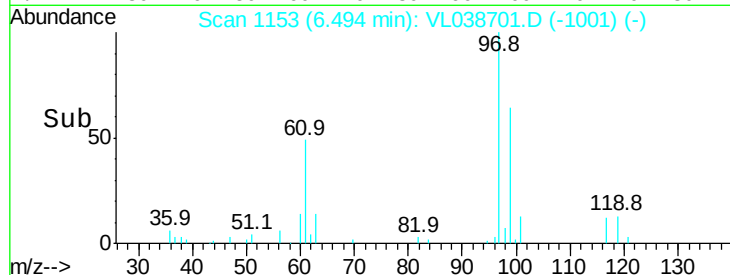
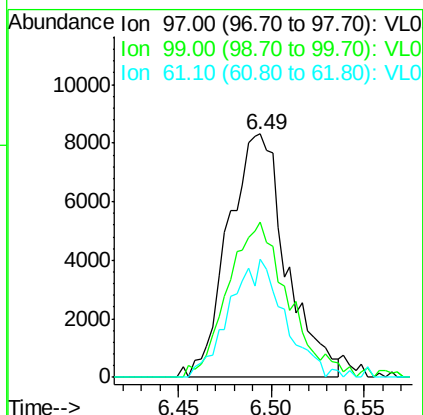
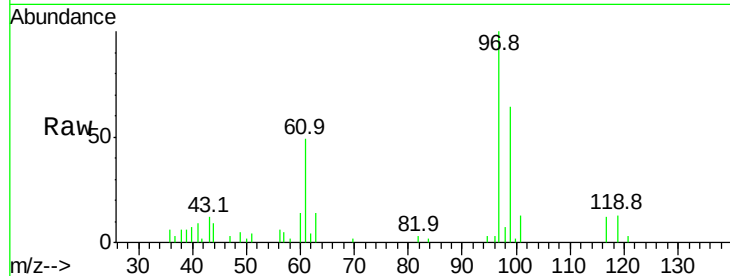
Delta R.T.:

Lab File: ClientSampleId:

Acq: 23 Mar 2022 2:23

Tgt Ion: 97 Resp: 18116

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 67.7  | 51.8  | 77.8  |
| 61  | 46.5  | 36.7  | 55.1  |



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.15 min Scan# 1358

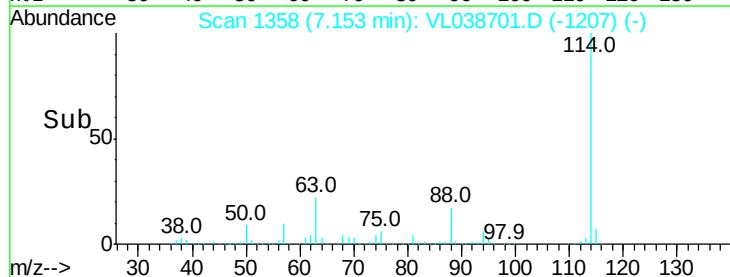
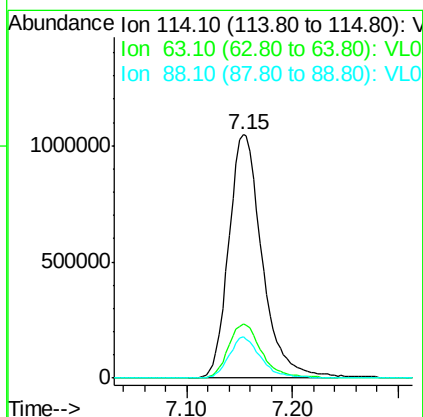
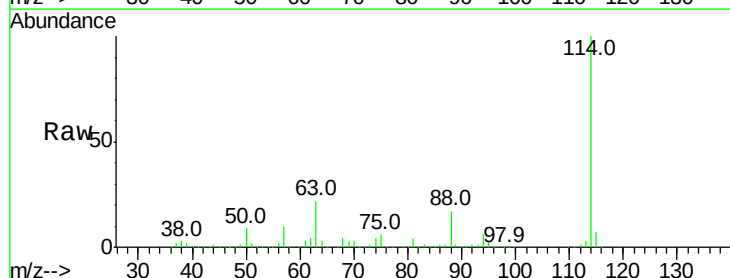
Delta R.T. -0.01 min

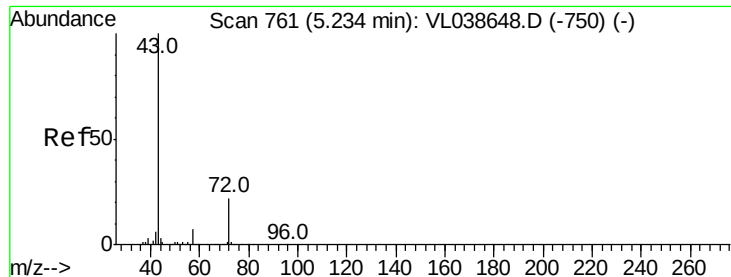
Lab File: VL038701.D

Acq: 23 Mar 2022 2:23

Tgt Ion: 114 Resp: 2299244

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 22.5  | 19.4  | 29.0  |
| 88  | 16.3  | 13.9  | 20.9  |





#34

2-Butanone

Concen: 18.44 ppbv

RT: 5.22

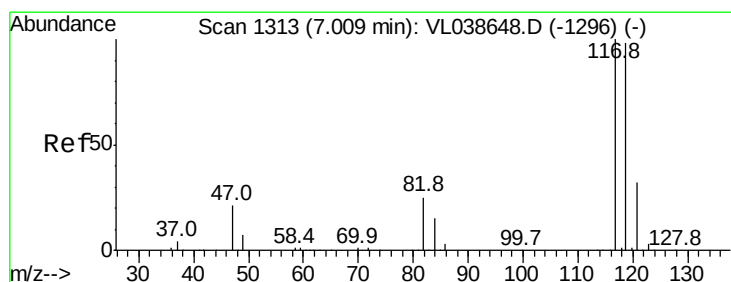
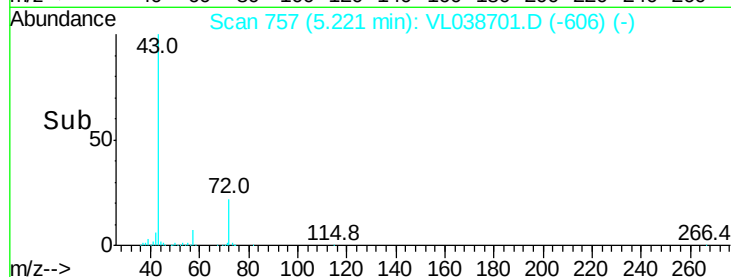
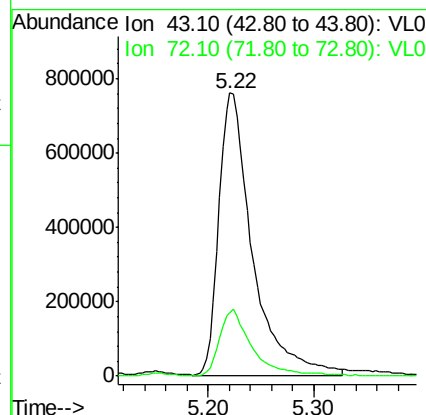
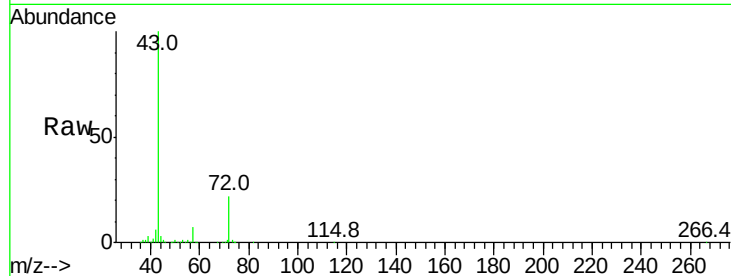
Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 2:23

Tgt Ion: 43 Resp: 1678523

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 23.2  | 17.8  | 26.8  |



#35

Carbon Tetrachloride

Concen: 0.02 ppbv

RT: 7.00 min Scan# 1310

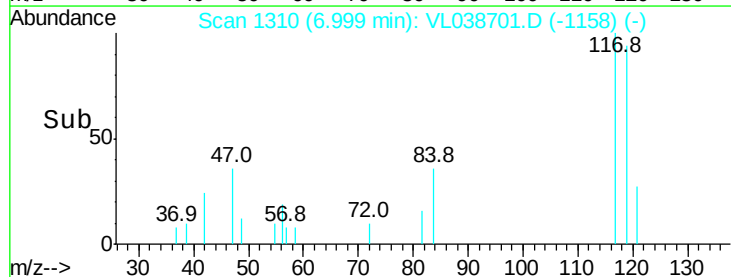
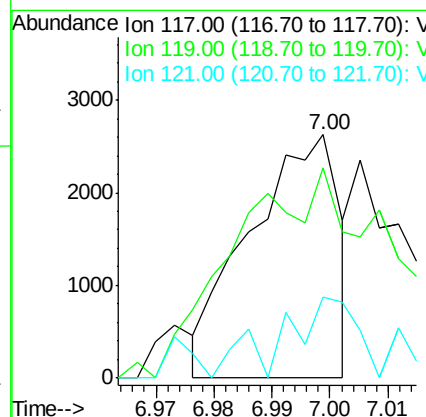
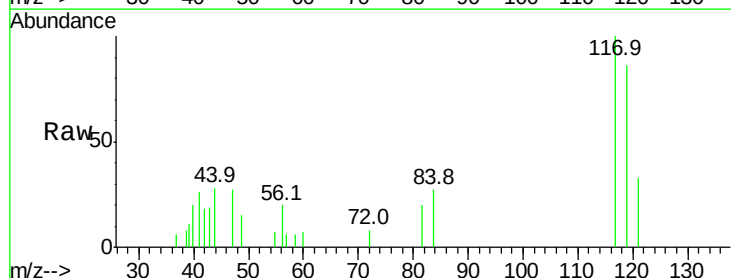
Delta R.T. -0.01 min

Lab File: VL038701.D

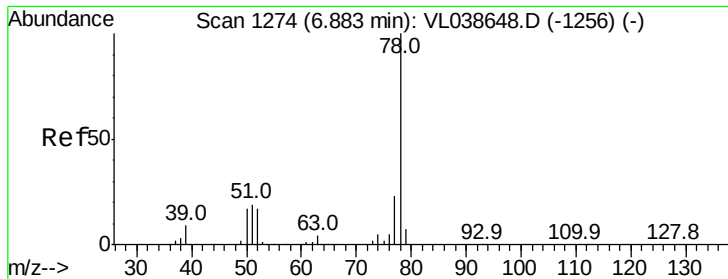
Acq: 23 Mar 2022 2:23

Tgt Ion: 117 Resp: 2820

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 117 | 100   |       |        |
| 119 | 70.6  | 78.1  | 117.1# |
| 121 | 27.9  | 25.8  | 38.6   |







#36

Benzene

Concen: 0.19 ppbv

RT: 6.87 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: C0P89DUP

Acq: 23 Mar 2022 2:23

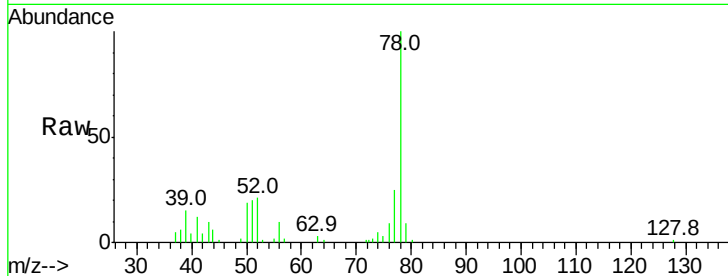
Tgt Ion: 78 Resp: 33516

Ion Ratio Lower Upper

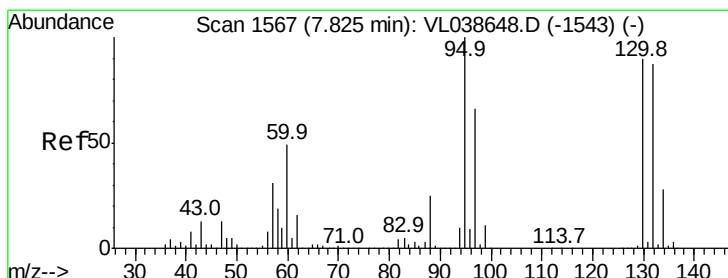
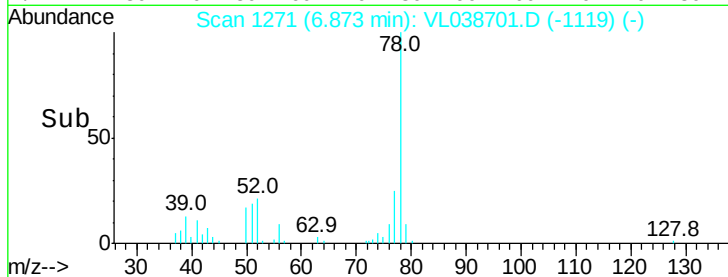
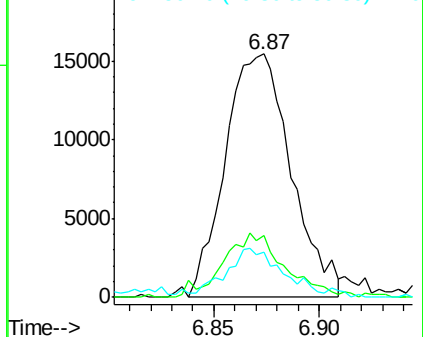
78 100

77 24.4 18.1 27.1

50 16.8 13.6 20.4



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



#38

Trichloroethene

Concen: 0.14 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VL038701.D

Acq: 23 Mar 2022 2:23

Tgt Ion: 130 Resp: 10055

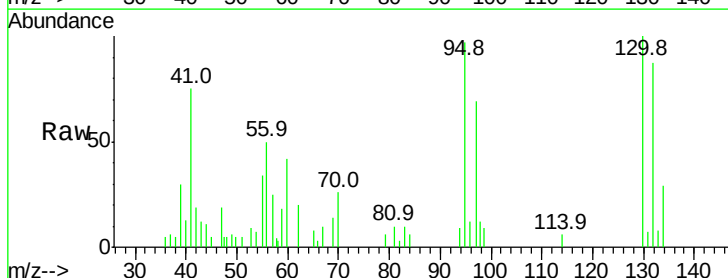
Ion Ratio Lower Upper

130 100

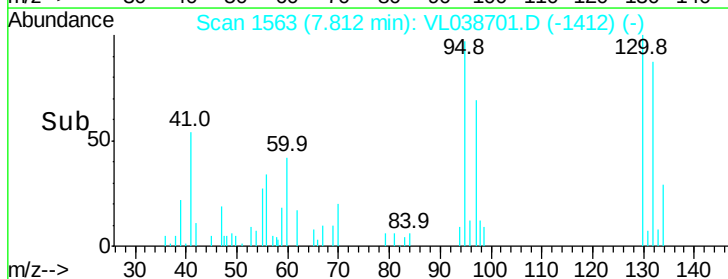
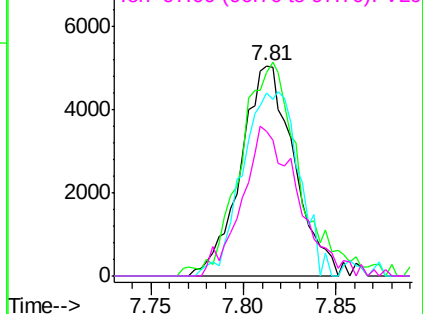
95 92.6 88.9 133.3

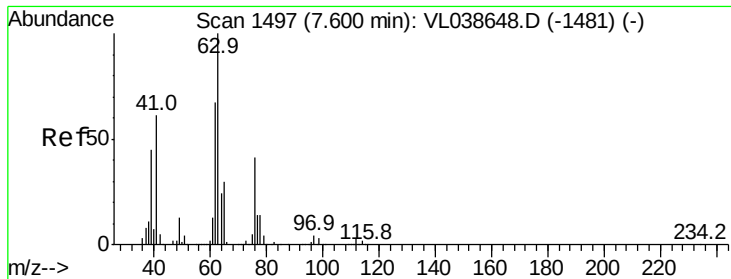
132 87.5 77.4 116.0

97 68.6 58.2 87.4



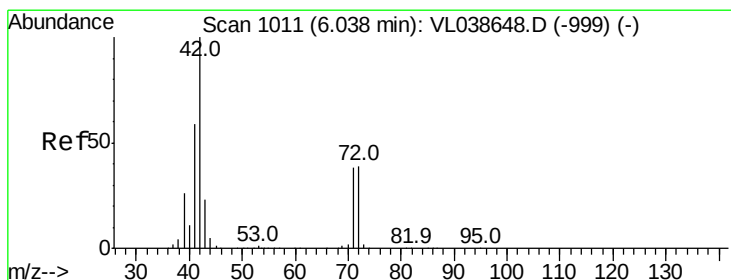
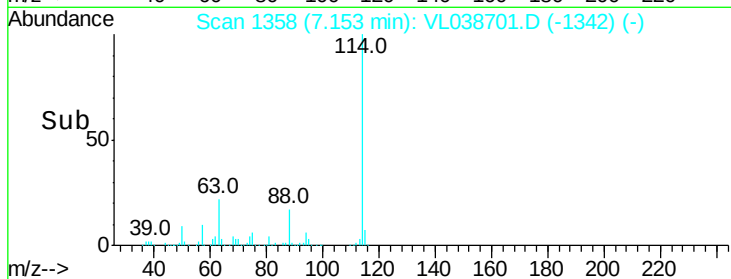
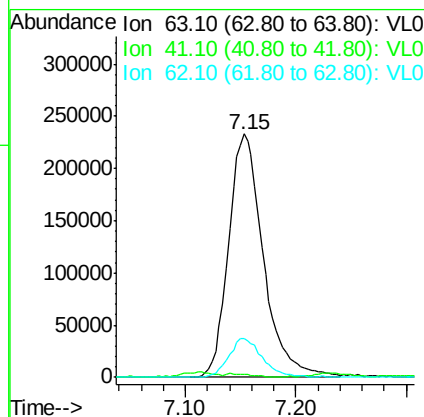
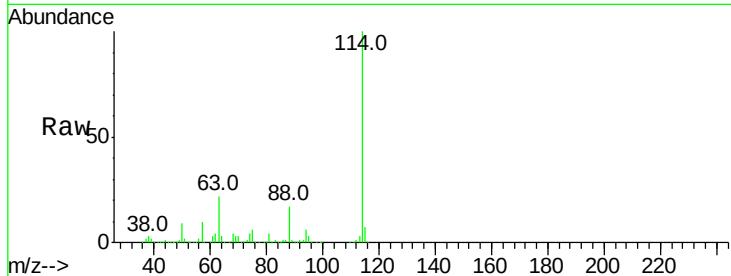
Abundance Ion 130.00 (129.70 to 130.70): VL0  
Ion 95.00 (94.70 to 95.70): VL0  
Ion 132.00 (131.70 to 132.70): VL0  
Ion 97.00 (96.70 to 97.70): VL0





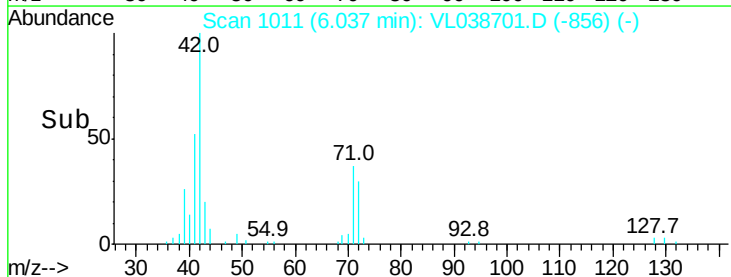
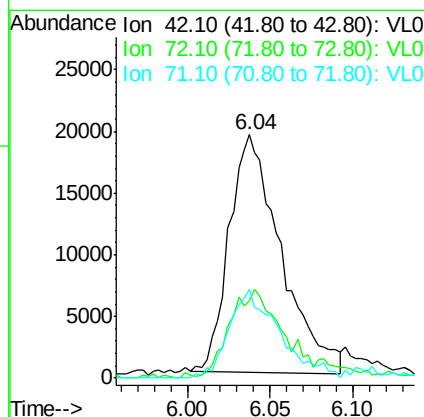
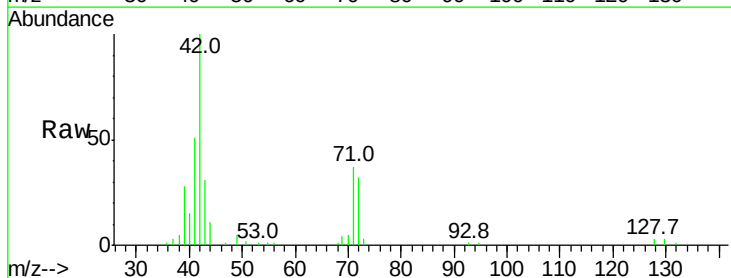
#39  
 1,2-Dichloropropane  
 Concen: 7.35 ppbv  
 RT: 7.15  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 C0P89DUP  
 Acq: 23 Mar 2022 2:23

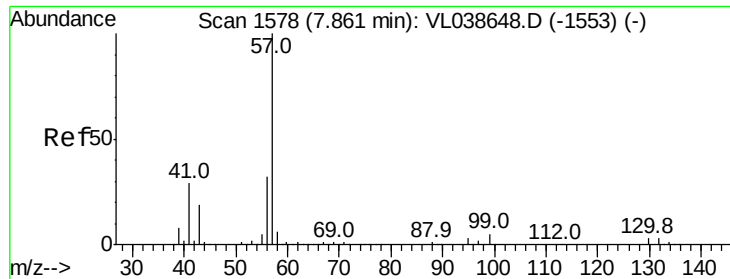
Tgt Ion: 63 Resp: 509578  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 49.0 73.6#  
 62 15.7 53.9 80.9#



#41  
 Tetrahydrofuran  
 Concen: 0.62 ppbv  
 RT: 6.04 min Scan# 1011  
 Delta R.T. -0.00 min  
 Lab File: VL038701.D  
 Acq: 23 Mar 2022 2:23

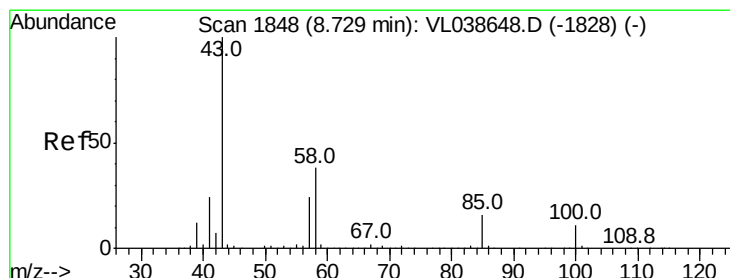
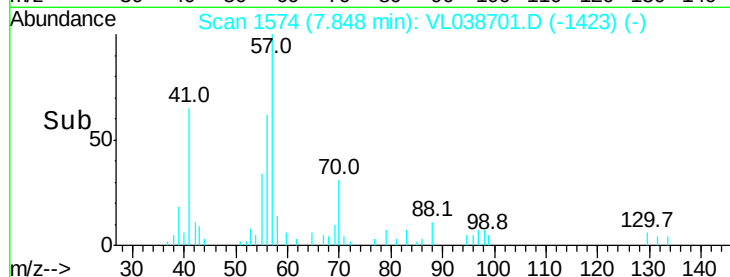
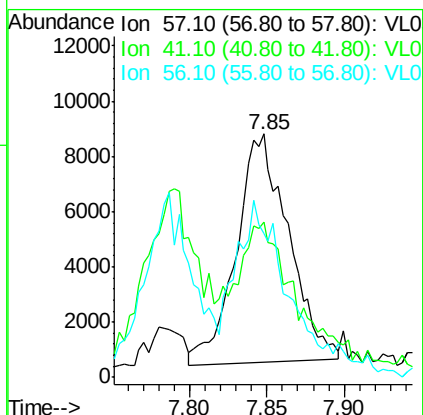
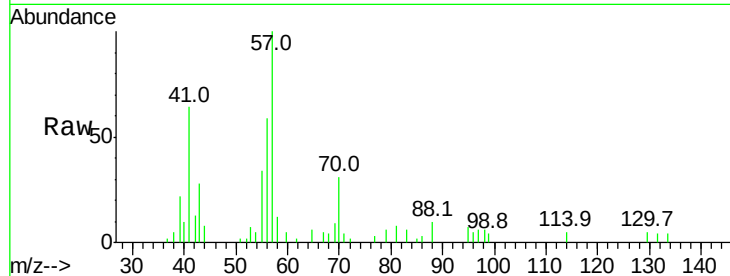
Tgt Ion: 42 Resp: 41840  
 Ion Ratio Lower Upper  
 42 100  
 72 44.1 32.5 48.7  
 71 38.9 31.4 47.2





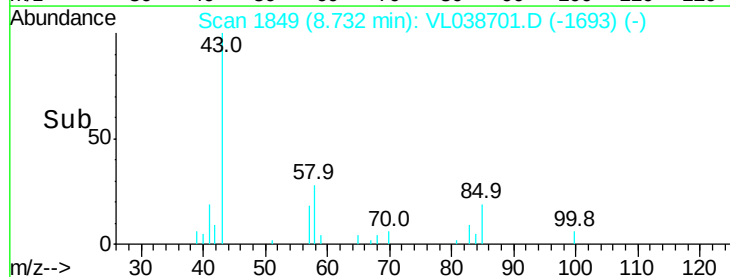
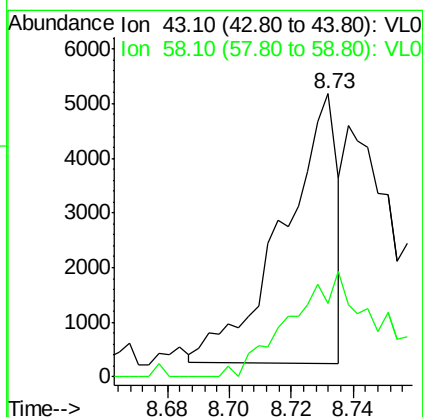
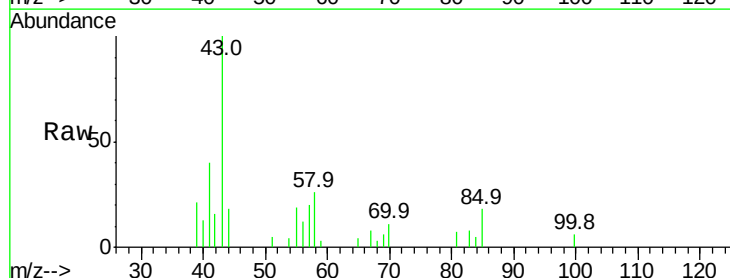
#44  
 2,2,4-Trimethylpentane  
 Concen: 0.07 ppbv  
 RT: 7.85  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 C0P89DUP  
 Acq: 23 Mar 2022 2:23

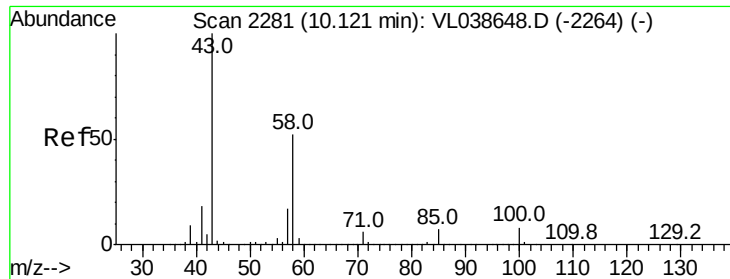
Tgt Ion: 57 Resp: 19417  
 Ion Ratio Lower Upper  
 57 100  
 41 76.0 23.0 34.4#  
 56 80.6 25.3 37.9#



#50  
 4-Methyl-2-Pentanone  
 Concen: 0.04 ppbv  
 RT: 8.73 min Scan# 1849  
 Delta R.T. 0.00 min  
 Lab File: VL038701.D  
 Acq: 23 Mar 2022 2:23

Tgt Ion: 43 Resp: 5981  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 29.9 44.9#





#51

2-Hexanone

Concen: 1.16 ppbv

RT: 10.12

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 2:23

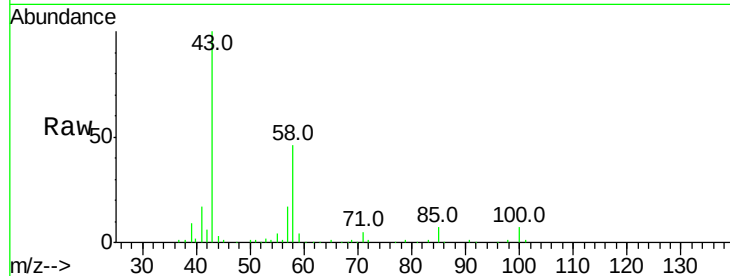
Tgt Ion: 43 Resp: 140380

Ion Ratio Lower Upper

43 100

58 53.0 41.2 61.8

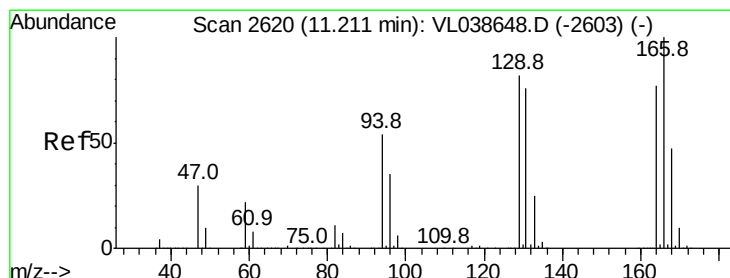
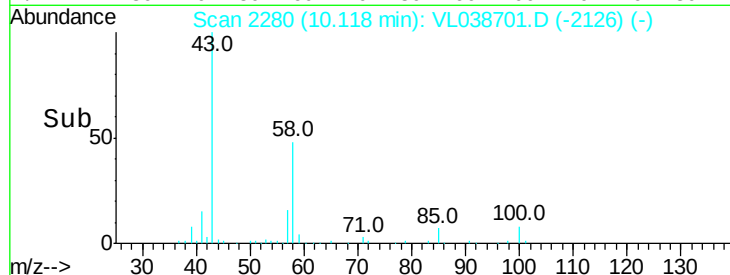
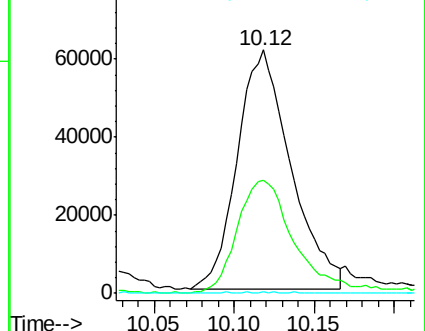
98 0.1 0.2 0.4#



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: 66.43 ppbv

RT: 11.20 min Scan# 2618

Delta R.T. -0.01 min

Lab File: VL038701.D

Acq: 23 Mar 2022 2:23

Tgt Ion:164 Resp: 4314011

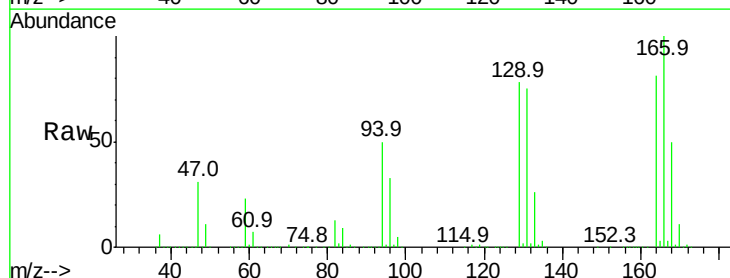
Ion Ratio Lower Upper

164 100

166 123.9 103.3 154.9

129 96.5 85.2 127.8

131 93.3 78.3 117.5

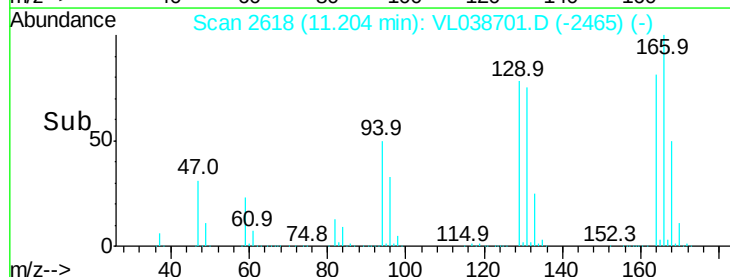
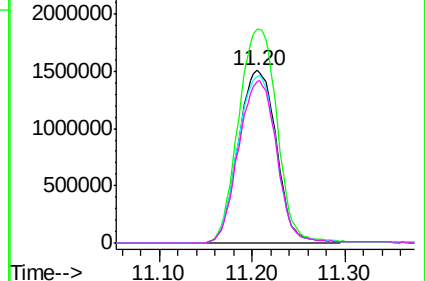


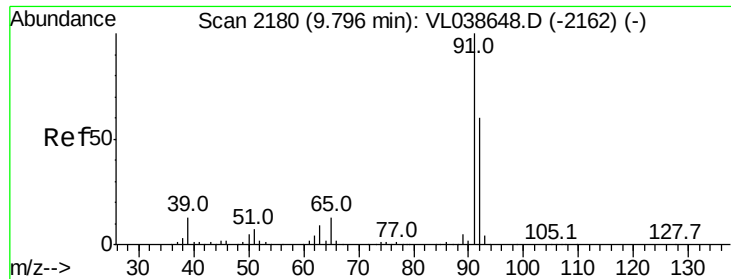
Abundance Ion 163.90 (163.60 to 164.60): V

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: 3.64 ppbv

RT: 9.78 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: C0P89DUP

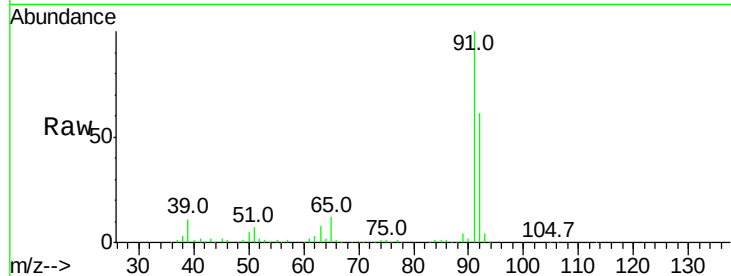
Acq: 23 Mar 2022 2:23

Tgt Ion: 91 Resp: 694372

Ion Ratio Lower Upper

91 100

92 61.4 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.78

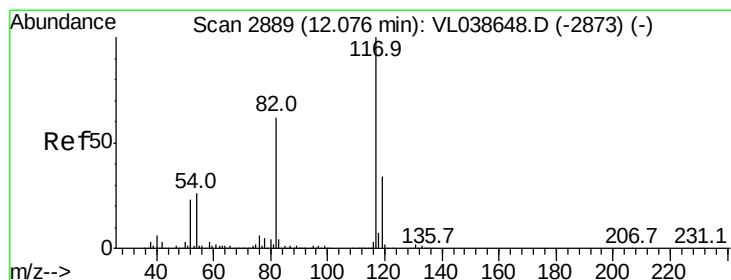
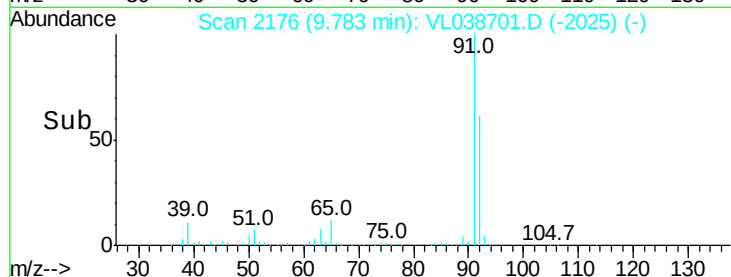
300000

200000

100000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL038701.D

Acq: 23 Mar 2022 2:23

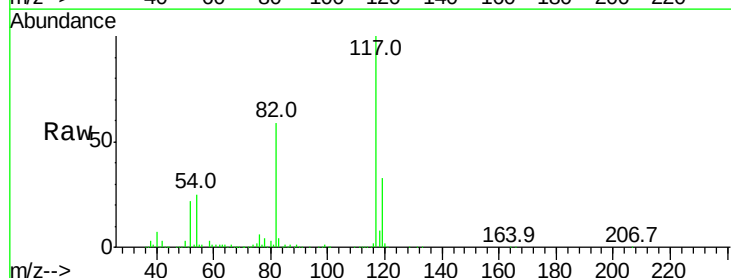
Tgt Ion: 117 Resp: 2114183

Ion Ratio Lower Upper

117 100

82 61.1 51.6 77.4

119 33.7 26.9 40.3



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

1200000

1000000

800000

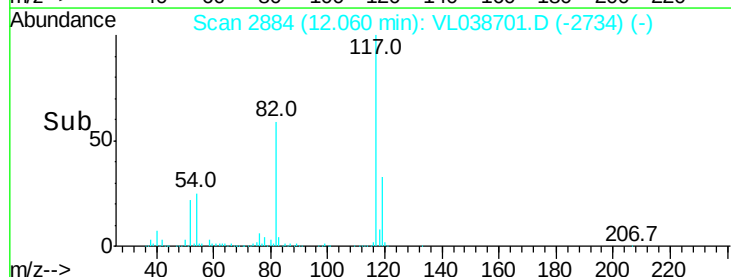
600000

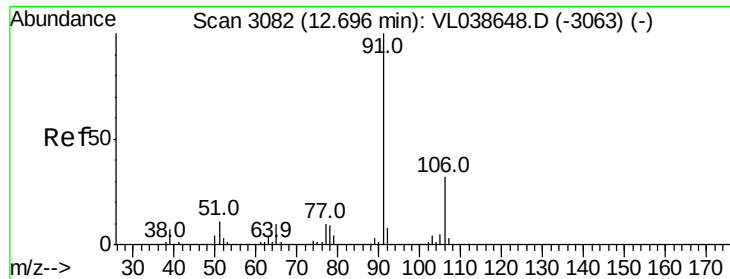
400000

200000

0

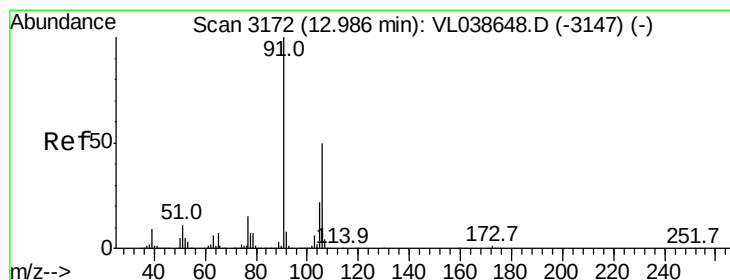
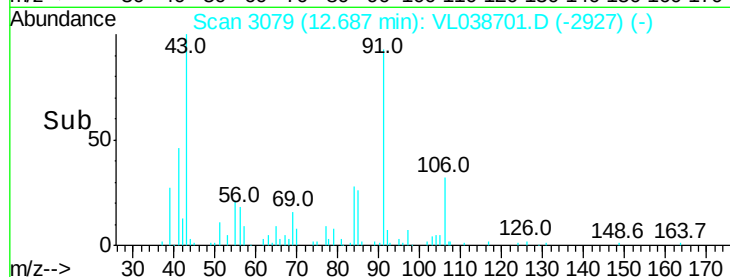
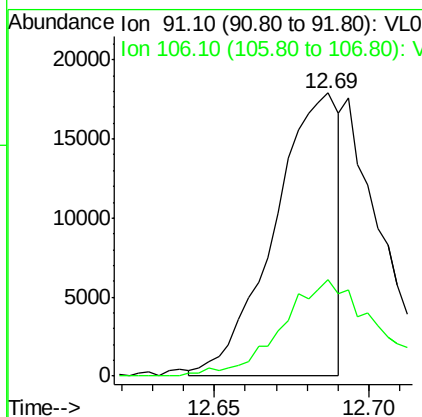
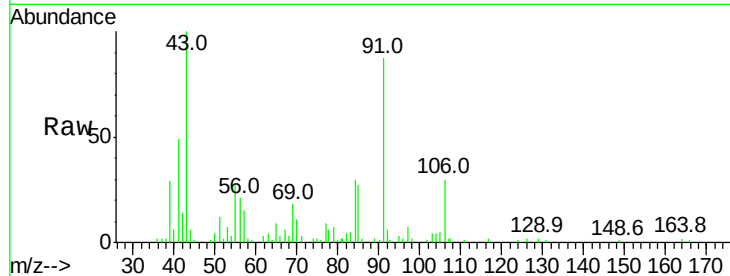
Time-->





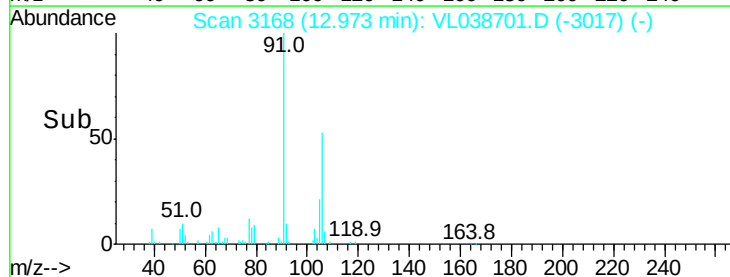
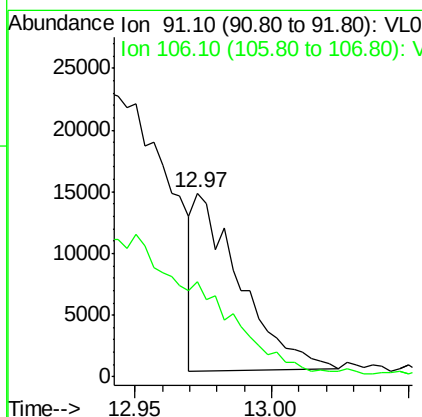
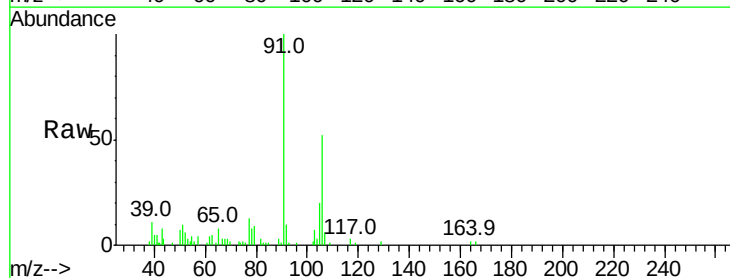
#58  
Ethyl Benzene  
Concen: 0.11 ppbv  
RT: 12.69  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
COP89DUP  
Acq: 23 Mar 2022 2:23

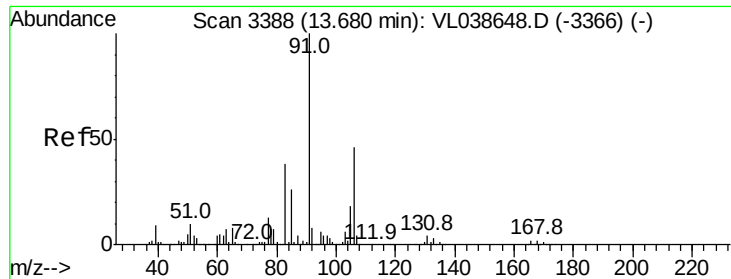
Tgt Ion: 91 Resp: 25970  
Ion Ratio Lower Upper  
91 100  
106 34.0 25.4 38.0



#59  
m/p-Xylene  
Concen: 0.08 ppbv  
RT: 12.97 min Scan# 3168  
Delta R.T. -0.01 min  
Lab File: VL038701.D  
Acq: 23 Mar 2022 2:23

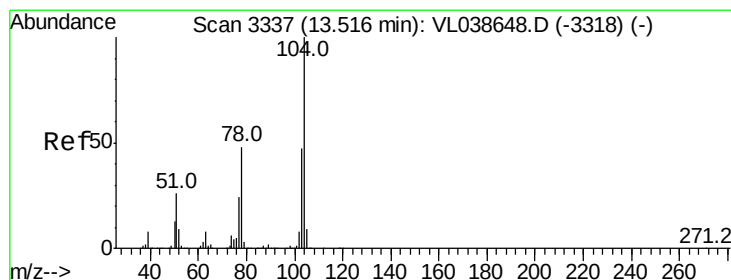
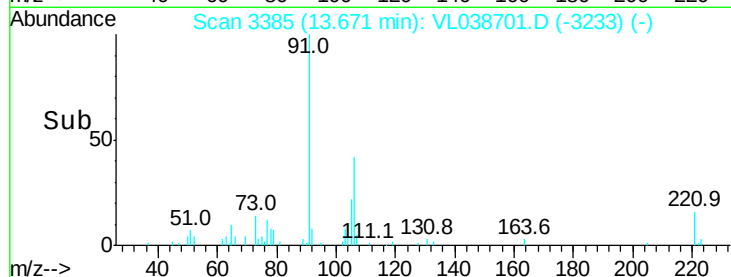
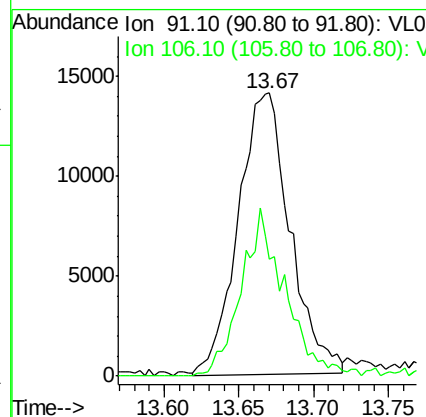
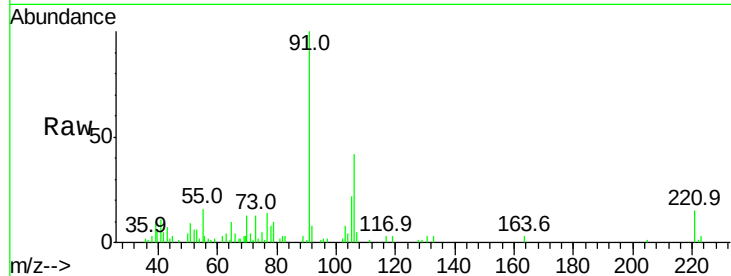
Tgt Ion: 91 Resp: 16913  
Ion Ratio Lower Upper  
91 100  
106 0.0 37.2 55.8#





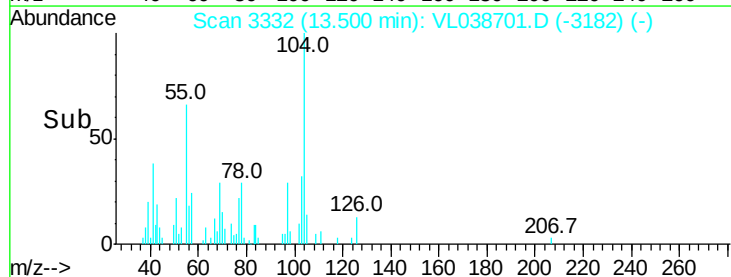
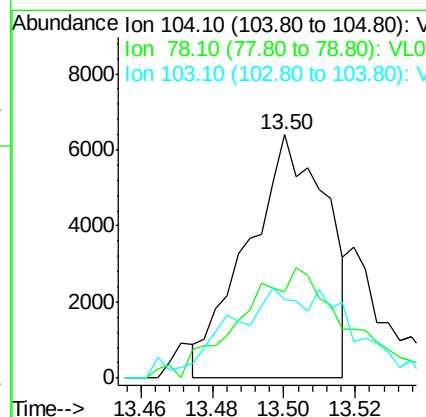
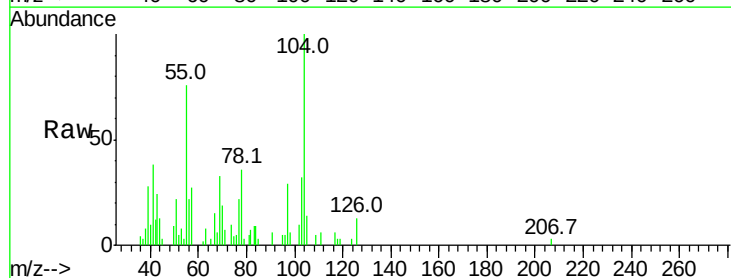
#60  
o-Xylene  
Concen: 0.17 ppbv  
RT: 13.67  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
COP89DUP  
Acq: 23 Mar 2022 2:23

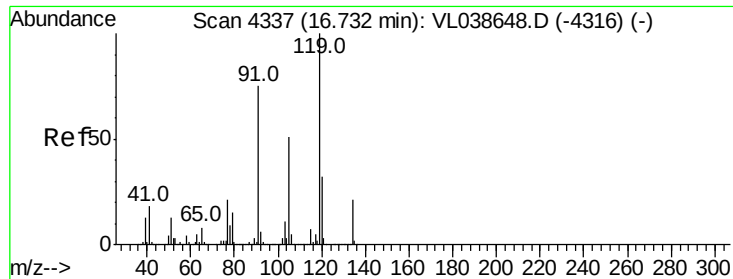
Tgt Ion: 91 Resp: 33881  
Ion Ratio Lower Upper  
91 100  
106 50.2 23.5 70.5



#61  
Styrene  
Concen: 0.09 ppbv  
RT: 13.50 min Scan# 3332  
Delta R.T. -0.02 min  
Lab File: VL038701.D  
Acq: 23 Mar 2022 2:23

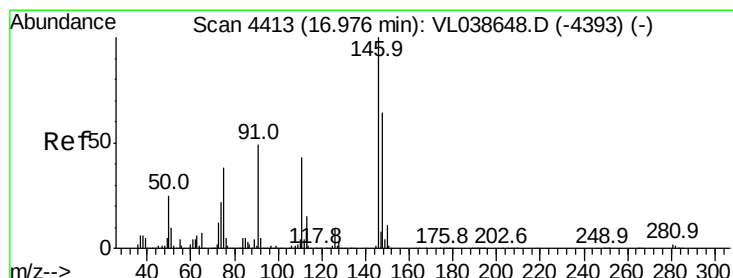
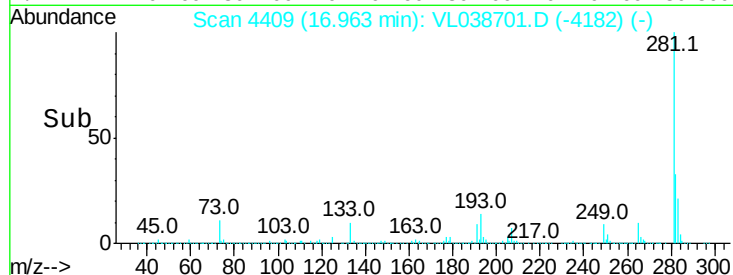
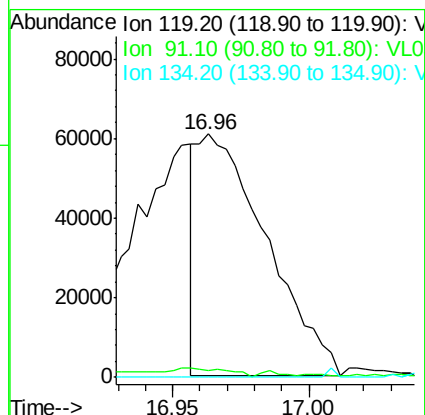
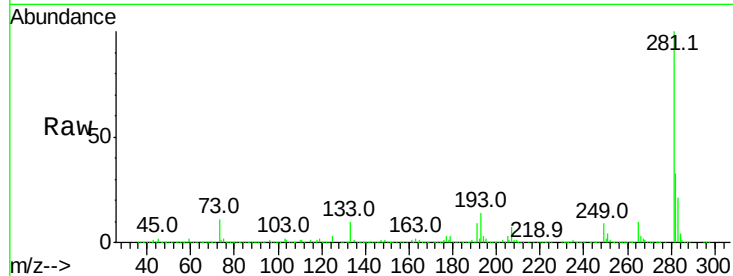
Tgt Ion: 104 Resp: 9831  
Ion Ratio Lower Upper  
104 100  
78 67.1 39.0 58.4#  
103 56.9 37.8 56.8#





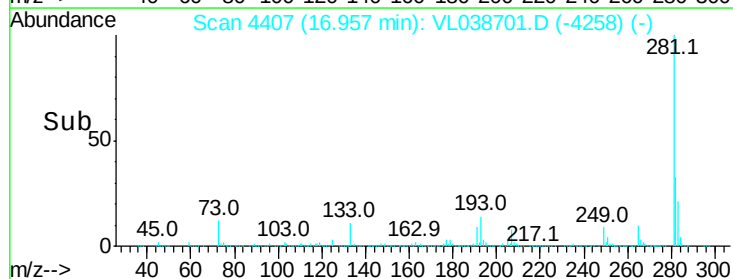
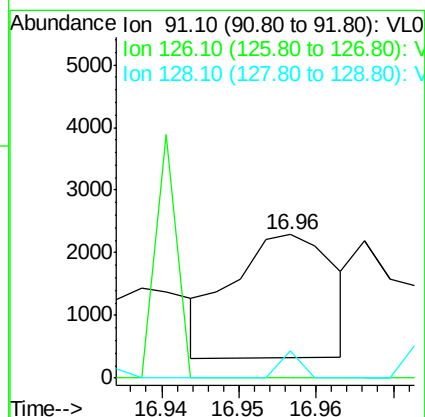
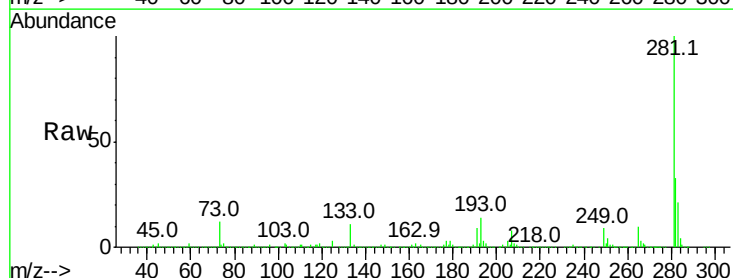
#65  
 tert-Butylbenzene  
 Concen: 0.38 ppbv  
 RT: 16.96 min  
 Delta R.T. MSVOA\_1  
 Lab File: ClientSampleId :  
 C0P89DUP  
 Acq: 23 Mar 2022 2:23

Tgt Ion: 119 Resp: 106530  
 Ion Ratio Lower Upper  
 119 100  
 91 5.3 61.2 91.8#  
 134 2.6 16.3 24.5#

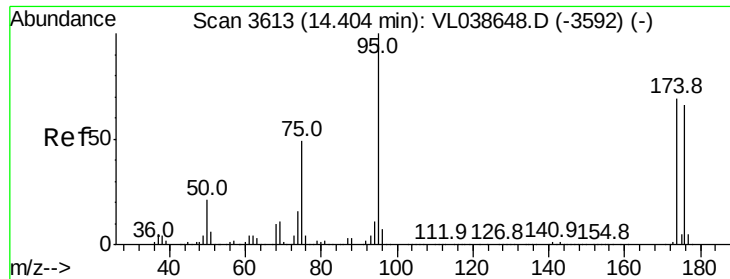


#66  
 Benzyl Chloride  
 Concen: 0.03 ppbv  
 RT: 16.96 min Scan# 4407  
 Delta R.T. -0.02 min  
 Lab File: VL038701.D  
 Acq: 23 Mar 2022 2:23

Tgt Ion: 91 Resp: 1803  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 14.3 21.5#  
 128 0.0 4.6 6.8#

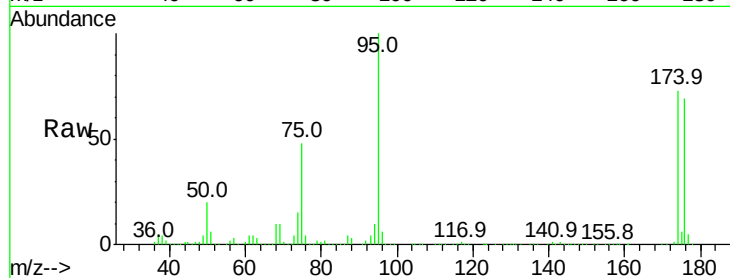




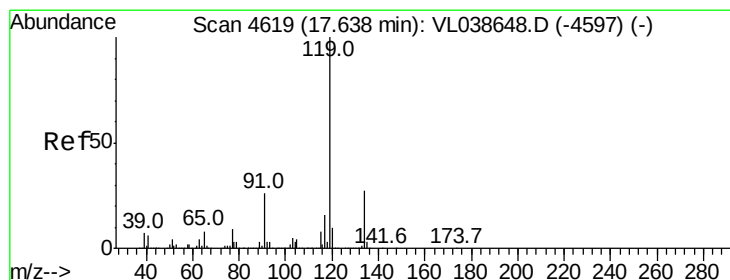
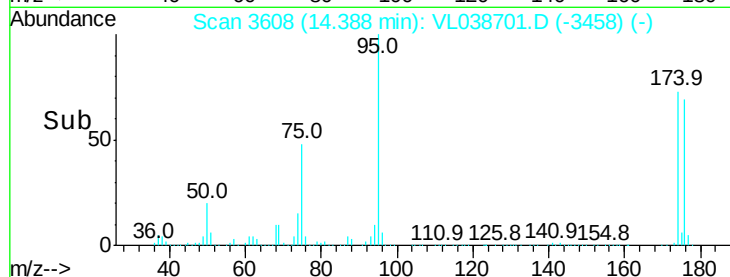
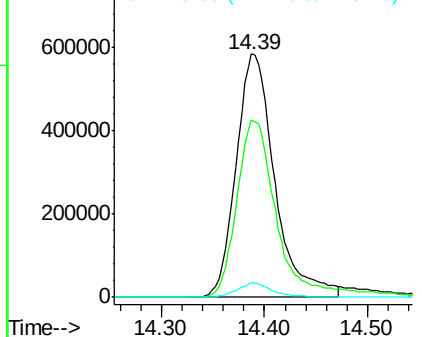


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.43 ppbv  
 RT: 14.39  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 C0P89DUP  
 Acq: 23 Mar 2022 2:23

Tgt Ion: 95 Resp: 1528199  
 Ion Ratio Lower Upper  
 95 100  
 174 77.1 56.1 84.1  
 175 5.6 4.2 6.2

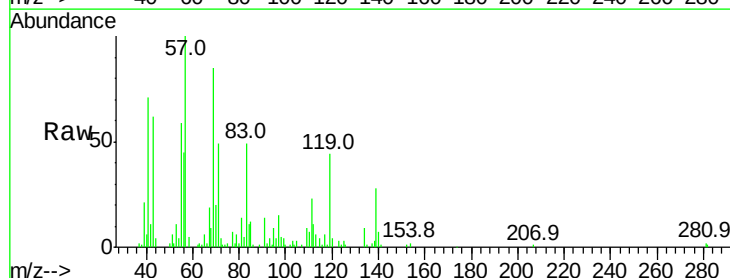


Abundance Ion 95.10 (94.80 to 95.80): VL0  
 Ion 174.00 (173.70 to 174.70): V  
 Ion 175.00 (174.70 to 175.70): V



#69  
 p-Isopropyltoluene  
 Concen: 0.04 ppbv  
 RT: 17.62 min Scan# 4612  
 Delta R.T. -0.02 min  
 Lab File: VL038701.D  
 Acq: 23 Mar 2022 2:23

Tgt Ion: 119 Resp: 12376  
 Ion Ratio Lower Upper  
 119 100  
 134 0.0 21.2 31.8#  
 91 0.0 21.4 32.2#



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): VL0

