

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081822\  
 Data File : VL039571.D  
 Acq On : 18 Aug 2022 23:04  
 Operator : SY/AP  
 Sample : N3980-14 LOQ 0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT3-2022

Quant Time: Aug 19 03:06:49 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL081722AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Aug 17 12:06:24 2022  
 QLast Update : Wed Aug 17 12:06:24 2022  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.208  | 49   | 913114   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.661  | 114  | 2528573  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.474 | 117  | 2322749  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.780 | 95    | 1798032  | 10.283   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.800% |

| Target Compounds              |       |     |         |       |        | Qvalue |
|-------------------------------|-------|-----|---------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.751 | 85  | 84119   | 0.685 | ppbv   | 95     |
| 3) Chlorodifluoromethane      | 2.697 | 51  | 64907   | 0.593 | ppbv   | 100    |
| 4) Chloromethane              | 2.835 | 50  | 37591   | 0.574 | ppbv   | 89     |
| 5) Vinyl Chloride             | 2.941 | 62  | 30932   | 0.548 | ppbv   | 95     |
| 6) Bromomethane               | 3.144 | 94  | 12639   | 0.547 | ppbv # | 78     |
| 7) Chloroethane               | 3.214 | 64  | 11578   | 0.576 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 2.880 | 85  | 71568   | 0.543 | ppbv   | 86     |
| 9) Propene                    | 2.719 | 41  | 31830   | 0.638 | ppbv   | 93     |
| 10) Heptane                   | 7.584 | 43  | 48441   | 0.418 | ppbv # | 84     |
| 11) Trichlorofluoromethane    | 3.584 | 101 | 75854   | 0.563 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 4.082 | 101 | 56323   | 0.566 | ppbv   | 97     |
| 13) Ethanol                   | 3.272 | 45  | 4608m   | 1.284 | ppbv   |        |
| 14) Bromoethene               | 3.391 | 108 | 19555   | 0.481 | ppbv # | 77     |
| 15) Acetone                   | 3.500 | 43  | 52009   | 0.504 | ppbv # | 78     |
| 16) 1,3-Butadiene             | 3.005 | 39  | 27815   | 0.519 | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 3.909 | 59  | 50013m  | 0.568 | ppbv   |        |
| 18) 1,1-Dichloroethene        | 3.902 | 96  | 25359   | 0.565 | ppbv   | 93     |
| 19) Isopropyl Alcohol         | 3.610 | 45  | 31166m  | 0.618 | ppbv   |        |
| 20) Methylene Chloride        | 3.954 | 84  | 27818   | 0.662 | ppbv # | 89     |
| 21) Allyl Chloride            | 4.015 | 41  | 30659   | 0.457 | ppbv # | 78     |
| 22) trans-1,2-Dichloroethene  | 4.465 | 96  | 26918m  | 0.603 | ppbv   |        |
| 23) Vinyl Acetate             | 4.652 | 43  | 23378m  | 0.451 | ppbv   |        |
| 24) 1,1-Dichloroethane        | 4.581 | 63  | 49834   | 0.546 | ppbv # | 97     |
| 25) Ethyl Acetate             | 5.227 | 43  | 103219  | 0.469 | ppbv # | 92     |
| 26) Hexane                    | 5.224 | 57  | 43416   | 0.481 | ppbv # | 77     |
| 27) Carbon Disulfide          | 4.140 | 76  | 43999   | 0.457 | ppbv # | 80     |
| 28) Methyl tert-Butyl Ether   | 4.613 | 73  | 27002   | 0.340 | ppbv # | 67     |
| 29) Chloroform                | 5.285 | 83  | 79139   | 0.561 | ppbv   | 97     |
| 30) Cyclohexane               | 6.613 | 84  | 22036   | 0.294 | ppbv # | 100    |
| 31) cis-1,2-Dichloroethene    | 5.095 | 61  | 36794   | 0.422 | ppbv # | 84     |
| 32) 1,1,1-Trichloroethane     | 6.018 | 97  | 71965   | 0.543 | ppbv   | 97     |
| 34) 2-Butanone                | 4.815 | 43  | 55117   | 0.434 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.507 | 117 | 72990m  | 0.513 | ppbv   |        |
| 36) Benzene                   | 6.381 | 78  | 89302   | 0.463 | ppbv # | 93     |
| 37) 1,2-Dichloroethane        | 5.819 | 62  | 51924   | 0.485 | ppbv # | 94     |
| 38) Trichloroethene           | 7.301 | 130 | 49540   | 0.473 | ppbv   | 94     |
| 39) 1,2-Dichloropropane       | 7.085 | 63  | 36366   | 0.504 | ppbv   | 98     |
| 40) 1,4-Dioxane               | 7.333 | 88  | 11964m  | 0.418 | ppbv   |        |
| 41) Tetrahydrofuran           | 5.594 | 42  | 31896m  | 0.426 | ppbv   |        |
| 42) Bromodichloromethane      | 7.259 | 83  | 70737   | 0.483 | ppbv   | 92     |
| 43) Methyl Methacrylate       | 7.491 | 69  | 20977   | 0.301 | ppbv # | 58     |
| 44) 2,2,4-Trimethylpentane    | 7.336 | 57  | 154958m | 0.477 | ppbv   |        |
| 45) t-1,3-Dichloropropene     | 8.712 | 75  | 20815m  | 0.339 | ppbv   |        |

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 Sample : N3980-14 LOQ 0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT3-2022

Quant Time: Aug 19 03:06:49 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL081722AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Aug 17 12:06:24 2022  
 QLast Update : Wed Aug 17 12:06:24 2022  
 Response via : Initial Calibration

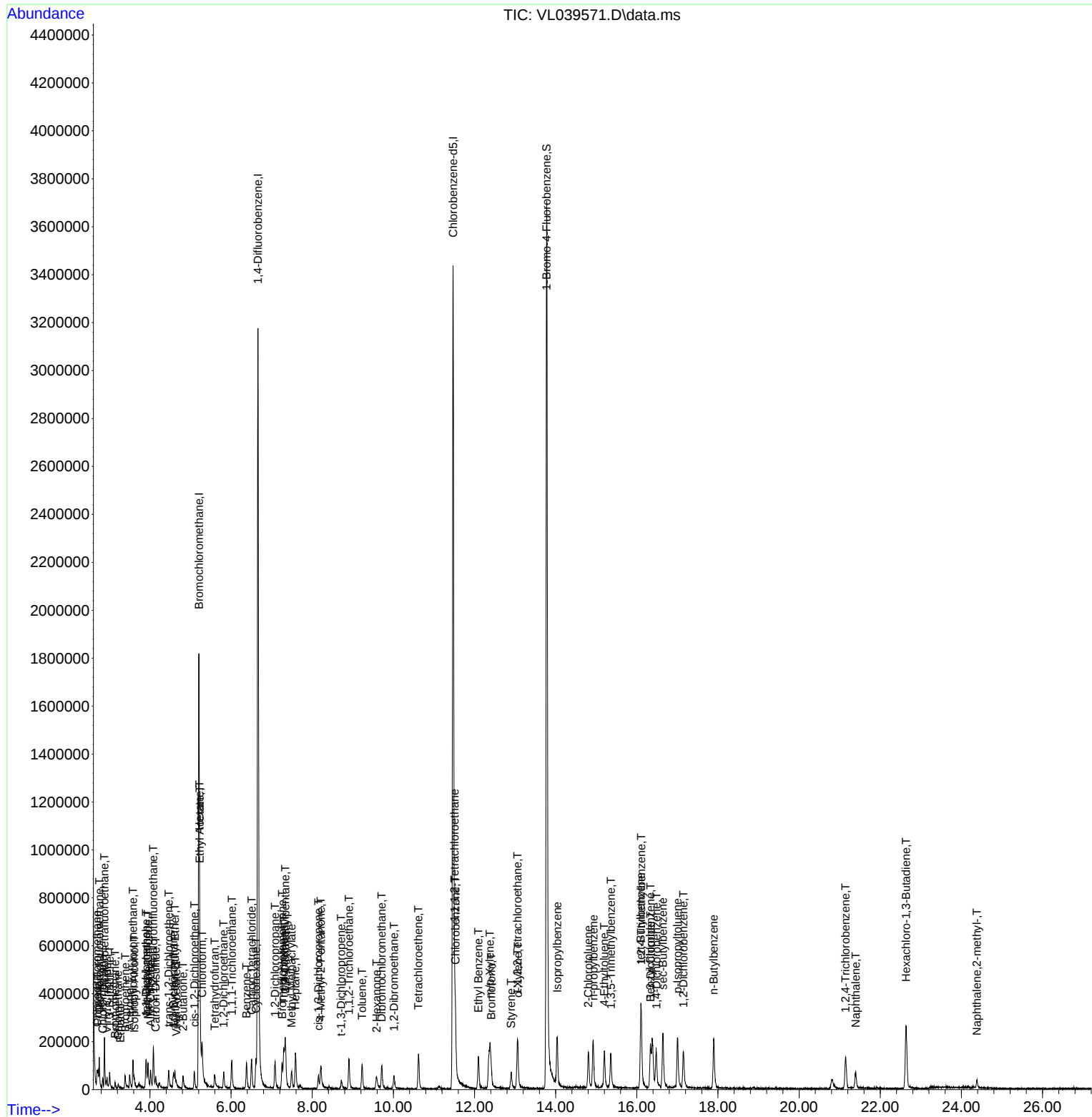
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.153  | 75   | 28718    | 0.340 | ppbv # | 85       |
| 47) 1,1,2-Trichloroethane     | 8.902  | 97   | 43560m   | 0.526 | ppbv   |          |
| 48) Dibromochloromethane      | 9.709  | 129  | 25073    | 0.204 | ppbv # | 1        |
| 49) Bromoform                 | 12.413 | 173  | 42792m   | 0.420 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 8.211  | 43   | 68476    | 0.350 | ppbv   | 95       |
| 51) 2-Hexanone                | 9.587  | 43   | 51389m   | 0.356 | ppbv   |          |
| 52) Tetrachloroethene         | 10.619 | 164  | 36001m   | 0.477 | ppbv   |          |
| 53) Toluene                   | 9.230  | 91   | 78395    | 0.363 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 10.015 | 107  | 42336m   | 0.448 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 53374    | 0.558 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.532 | 112  | 93173    | 0.534 | ppbv # | 90       |
| 58) Ethyl Benzene             | 12.098 | 91   | 108820   | 0.405 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.381 | 91   | 223631m  | 0.925 | ppbv   |          |
| 60) o-Xylene                  | 13.069 | 91   | 98193    | 0.423 | ppbv   | 98       |
| 61) Styrene                   | 12.899 | 104  | 39457    | 0.319 | ppbv   | 95       |
| 62) Isopropylbenzene          | 14.037 | 105  | 166197   | 0.474 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.060 | 83   | 60503    | 0.519 | ppbv   | 97       |
| 64) n-propylbenzene           | 14.931 | 120  | 41673m   | 0.455 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.098 | 119  | 153666m  | 0.491 | ppbv   |          |
| 66) Benzyl Chloride           | 16.339 | 91   | 10393m   | 0.387 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.641 | 105  | 221360   | 0.501 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.001 | 119  | 157446m  | 0.428 | ppbv   |          |
| 70) n-Butylbenzene            | 17.892 | 91   | 161928m  | 0.443 | ppbv   |          |
| 71) 2-Chlorotoluene           | 14.805 | 91   | 113033m  | 0.445 | ppbv   |          |
| 72) 4-Ethyltoluene            | 15.201 | 105  | 115045   | 0.422 | ppbv # | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.362 | 105  | 99886    | 0.401 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 132970   | 0.479 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 16.336 | 146  | 80858    | 0.480 | ppbv   | 93       |
| 76) 1,4-Dichlorobenzene       | 16.484 | 146  | 76807    | 0.455 | ppbv   | 92       |
| 77) 1,2-Dichlorobenzene       | 17.149 | 146  | 84238m   | 0.510 | ppbv   |          |
| 78) Hexachloro-1,3-Butadiene  | 22.638 | 225  | 72828m   | 0.555 | ppbv   |          |
| 79) Naphthalene               | 21.397 | 128  | 75600m   | 0.383 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.381 | 142  | 18392    | 0.236 | ppbv # | 100      |
| 81) 1,2,4-Trichlorobenzene    | 21.146 | 180  | 54911    | 0.417 | ppbv # | 100      |

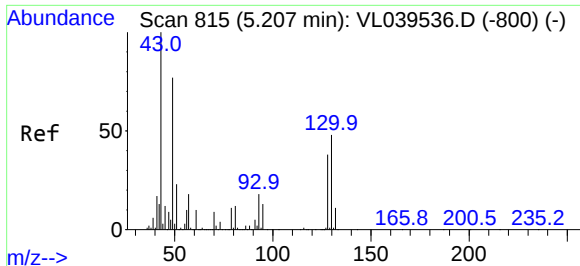
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Sample : N3980-14 LOQ 0.5  
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ALS Vial : 1 Sample Multiplier: 1

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Aug 17 12:06:24 2022  
QLast Update : Wed Aug 17 12:06:24 2022  
Response via : Initial Calibration

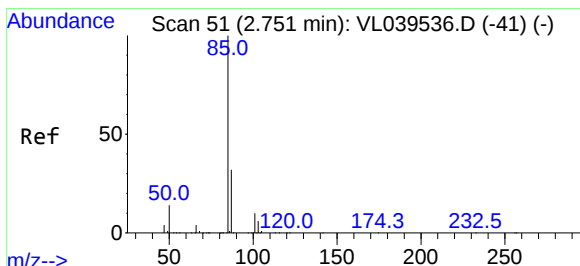
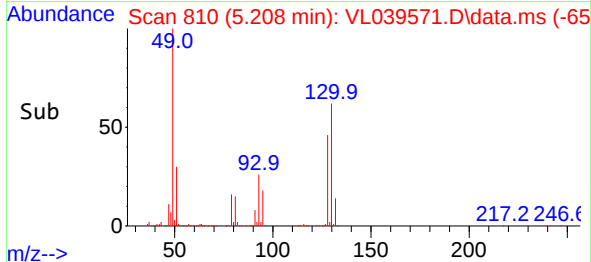
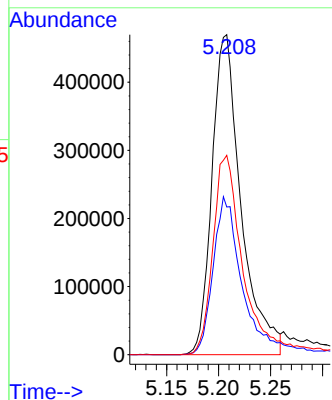
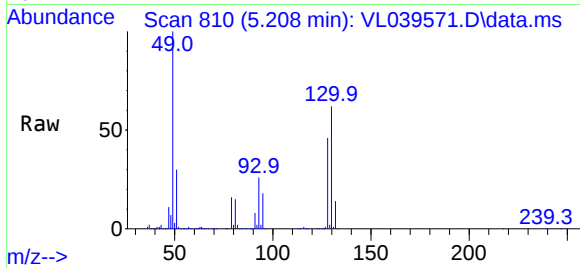




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.208 min Scan# 81  
 Delta R.T. 0.001 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

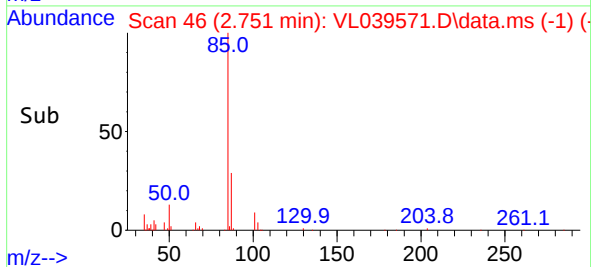
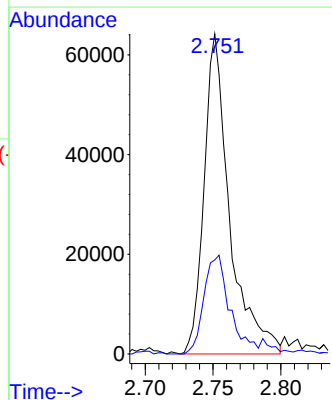
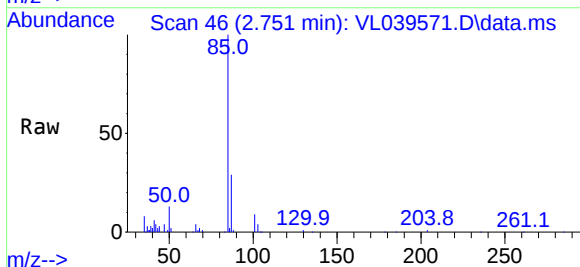
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT3-2022

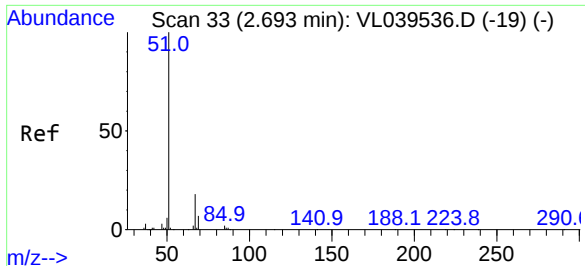
Tgt Ion: 49 Resp: 913114  
 Ion Ratio Lower Upper  
 49 100  
 128 52.7 25.7 77.0  
 130 68.6 31.6 95.0



#2  
 Dichlorodifluoromethane  
 Concen: 0.685 ppbv  
 RT: 2.751 min Scan# 46  
 Delta R.T. 0.001 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

Tgt Ion: 85 Resp: 84119  
 Ion Ratio Lower Upper  
 85 100  
 87 29.4 25.9 38.9

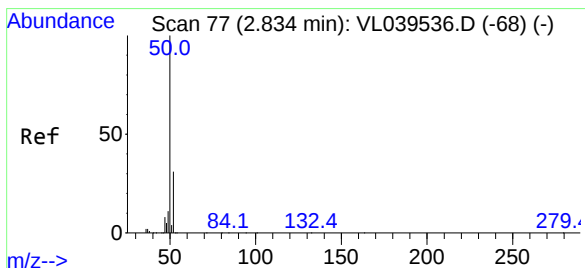
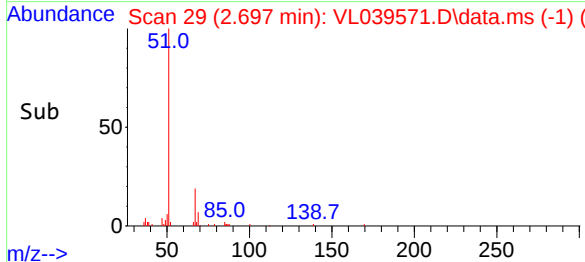
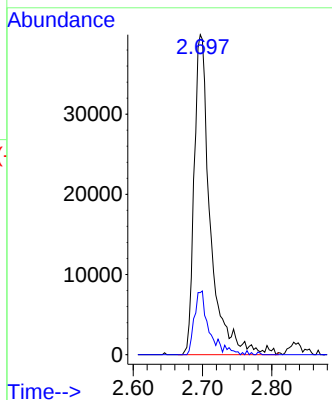
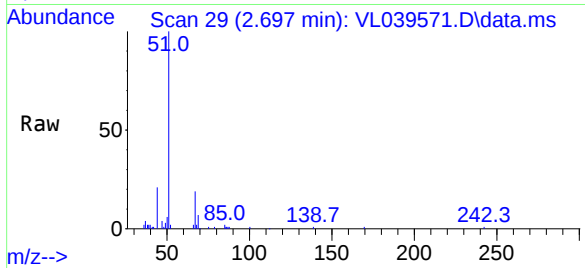




#3  
Chlorodifluoromethane  
Concen: 0.593 ppbv  
RT: 2.697 min Scan# 29  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

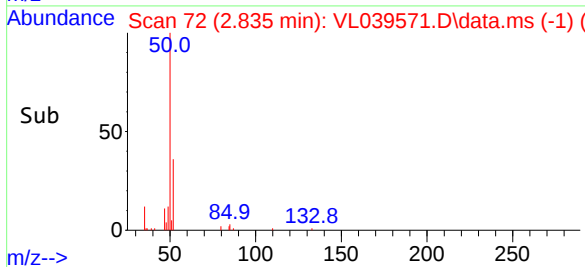
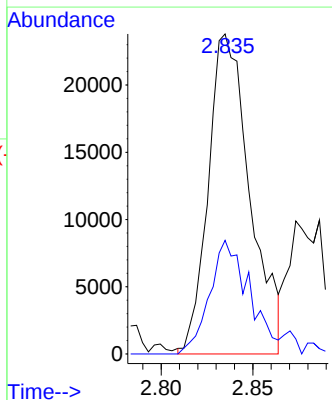
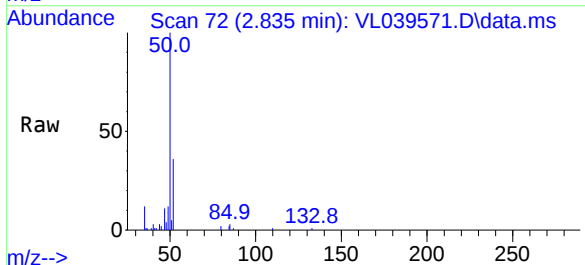
Instrument :  
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ClientSampleId :  
LOQ-AIR-02-QT3-2022

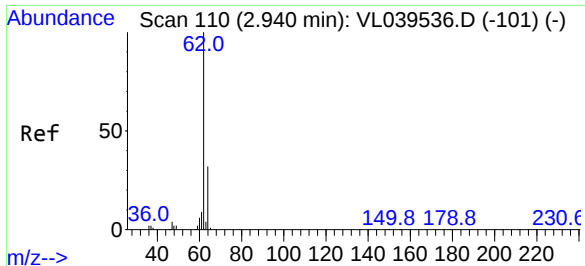
Tgt Ion: 51 Resp: 64907  
Ion Ratio Lower Upper  
51 100  
67 18.2 14.7 22.1



#4  
Chloromethane  
Concen: 0.574 ppbv  
RT: 2.835 min Scan# 72  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 50 Resp: 37591  
Ion Ratio Lower Upper  
50 100  
52 36.1 24.3 36.5

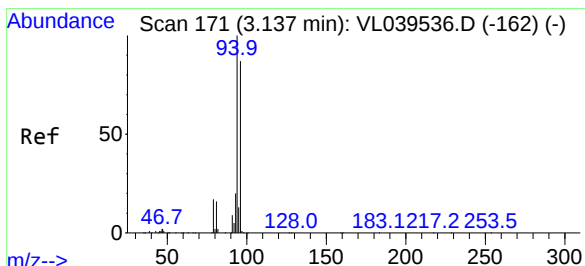
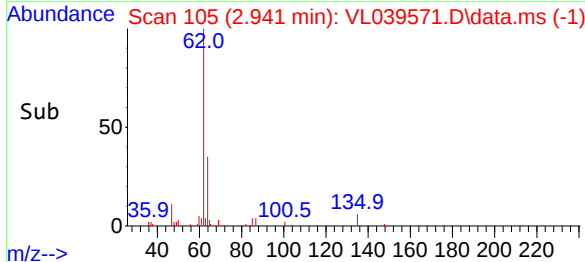
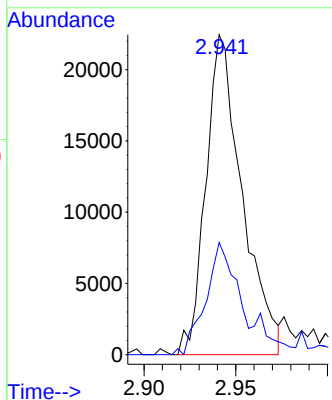
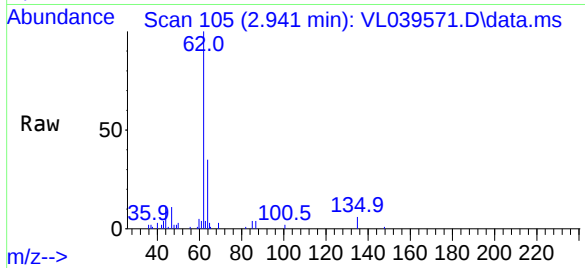




#5  
 Vinyl Chloride  
 Concen: 0.548 ppbv  
 RT: 2.941 min Scan# 110  
 Delta R.T. 0.001 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

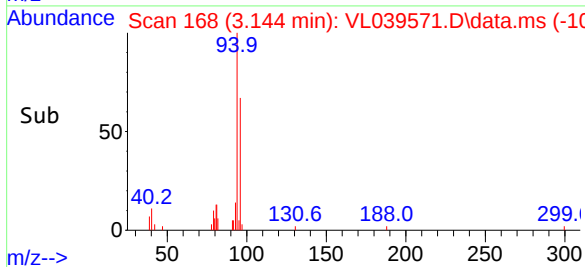
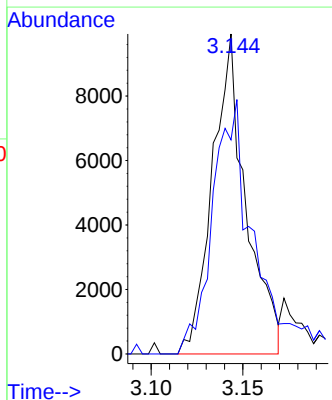
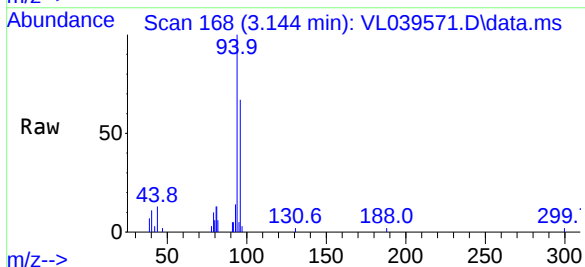
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT3-2022

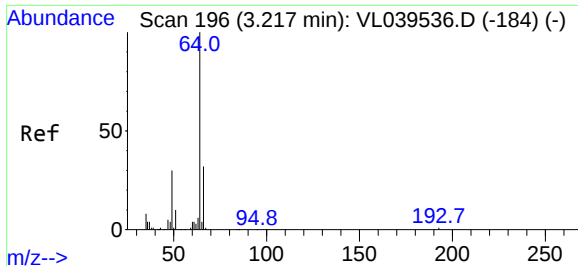
Tgt Ion: 62 Resp: 30932  
 Ion Ratio Lower Upper  
 62 100  
 64 34.7 25.5 38.3



#6  
 Bromomethane  
 Concen: 0.547 ppbv  
 RT: 3.144 min Scan# 168  
 Delta R.T. 0.007 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

Tgt Ion: 94 Resp: 12639  
 Ion Ratio Lower Upper  
 94 100  
 96 66.9 69.8 104.6#

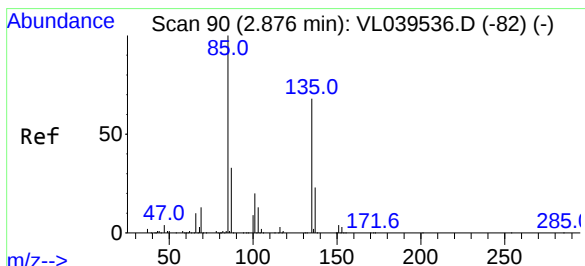
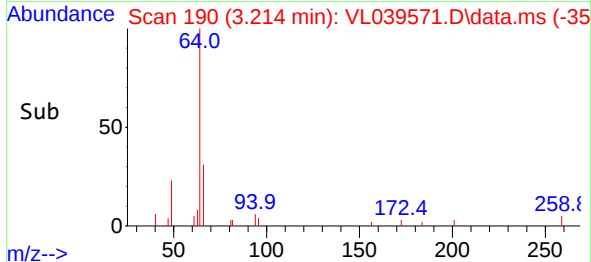
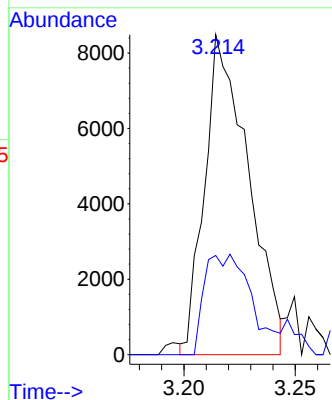
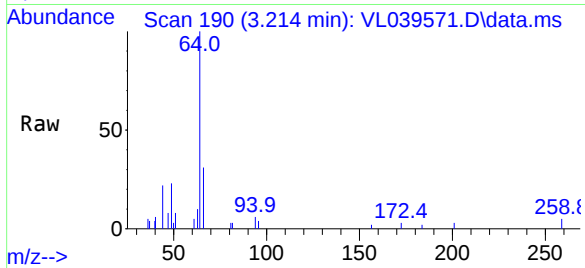




#7  
Chloroethane  
Concen: 0.576 ppbv  
RT: 3.214 min Scan# 196  
Delta R.T. -0.003 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

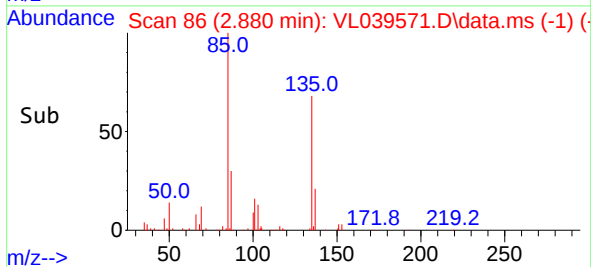
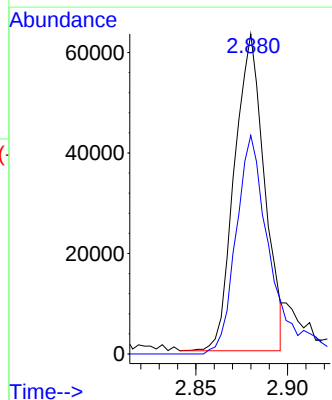
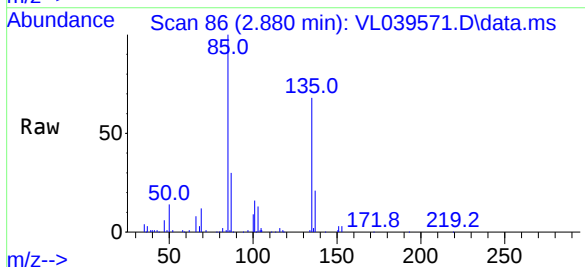
Instrument : MSVOA\_L  
ClientSampleId : LOQ-AIR-02-QT3-2022

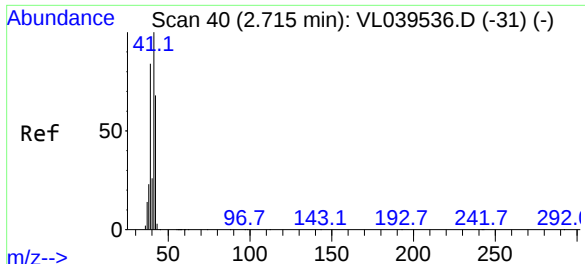
Tgt Ion: 64 Resp: 11578  
Ion Ratio Lower Upper  
64 100  
66 31.0 25.6 38.4



#8  
Dichlorotetrafluoroethane  
Concen: 0.543 ppbv  
RT: 2.880 min Scan# 86  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 85 Resp: 71568  
Ion Ratio Lower Upper  
85 100  
135 82.3 56.3 84.5

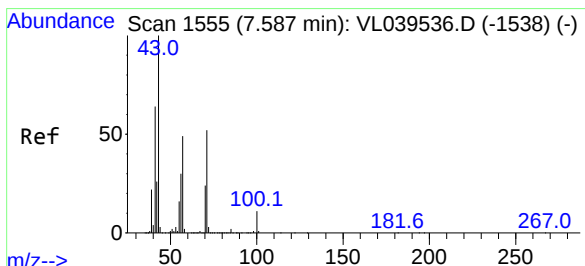
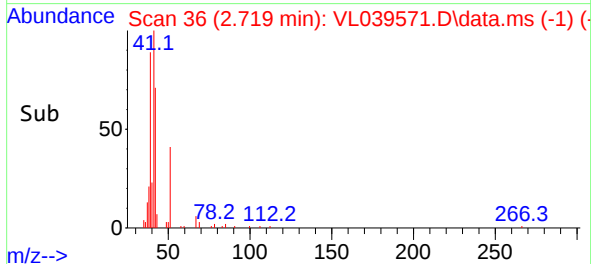
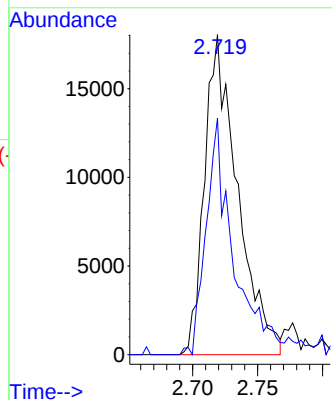
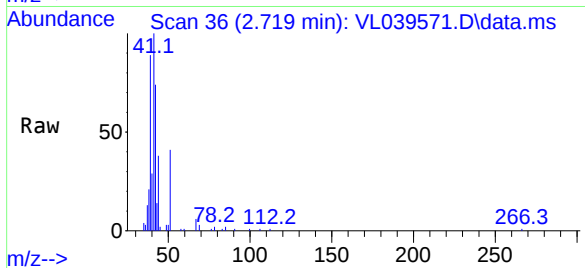




#9  
Propene  
Concen: 0.638 ppbv  
RT: 2.719 min Scan# 30  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

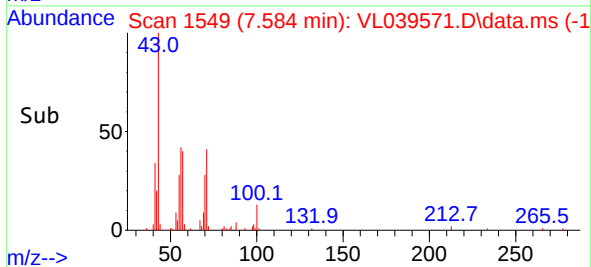
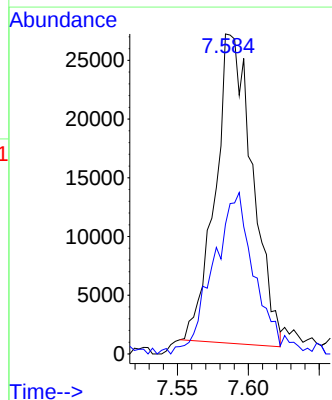
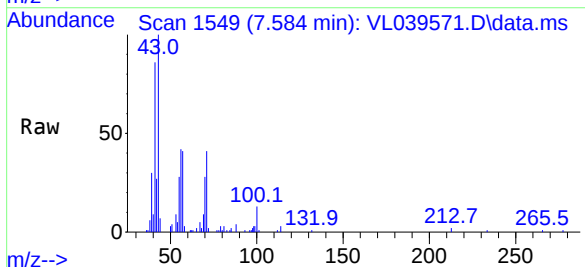
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

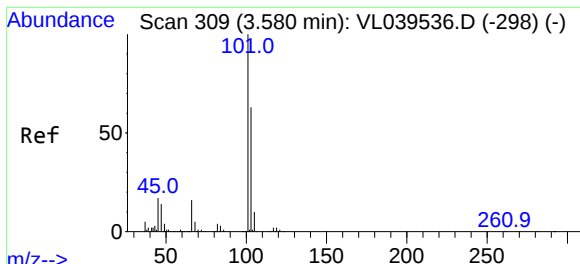
Tgt Ion: 41 Resp: 31830  
Ion Ratio Lower Upper  
41 100  
42 63.8 55.4 83.0



#10  
Heptane  
Concen: 0.418 ppbv  
RT: 7.584 min Scan# 1549  
Delta R.T. -0.003 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 43 Resp: 48441  
Ion Ratio Lower Upper  
43 100  
57 60.7 39.8 59.6#

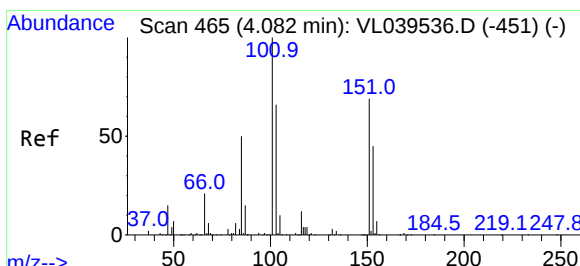
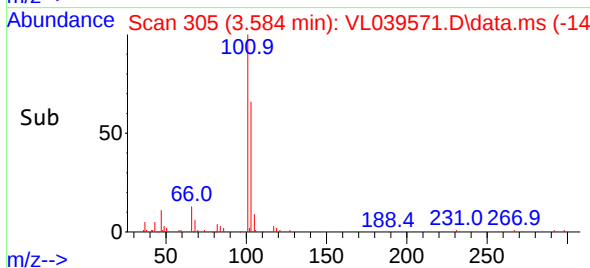
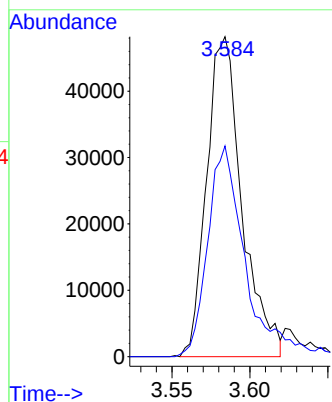
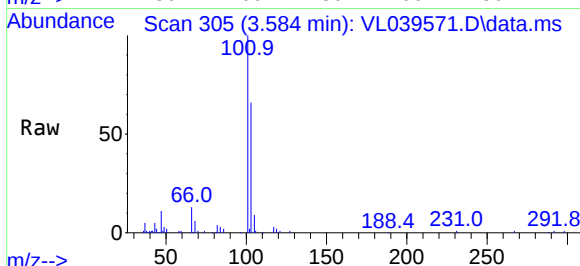




#11  
Trichlorofluoromethane  
Concen: 0.563 ppbv  
RT: 3.584 min Scan# 309  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

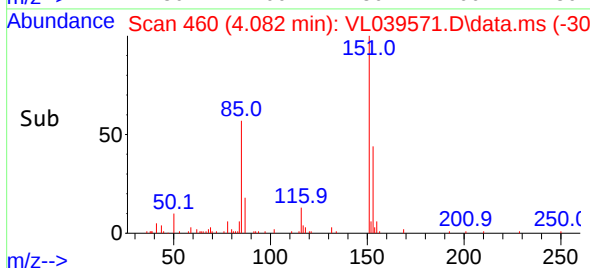
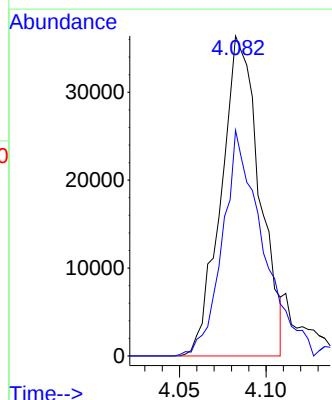
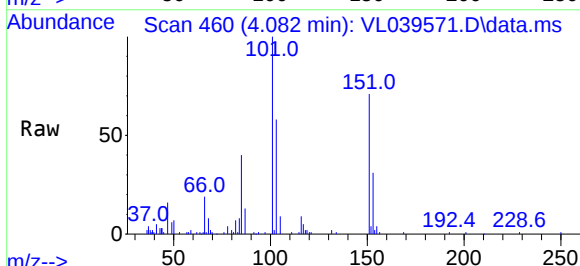
Instrument :  
MSVOA\_1  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

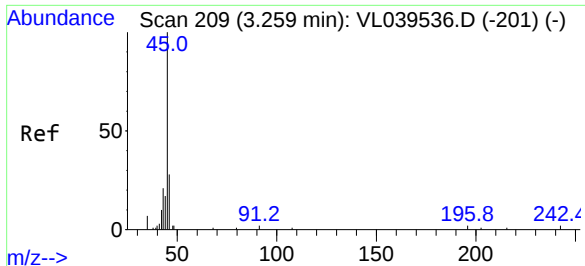
Tgt Ion:101 Resp: 75854  
Ion Ratio Lower Upper  
101 100  
103 65.2 50.6 76.0



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.566 ppbv  
RT: 4.082 min Scan# 460  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion:101 Resp: 56323  
Ion Ratio Lower Upper  
101 100  
151 76.0 58.6 87.8





#13

Ethanol

Concen: 1.284 ppbv m

RT: 3.272 min Scan# 209

Delta R.T. 0.013 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA\_L

ClientSampleId :

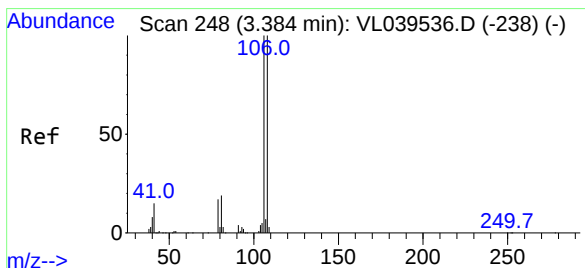
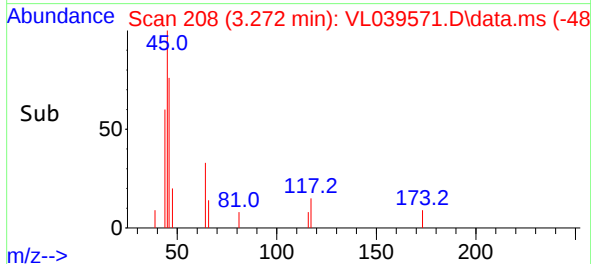
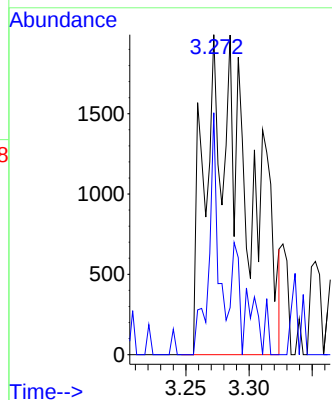
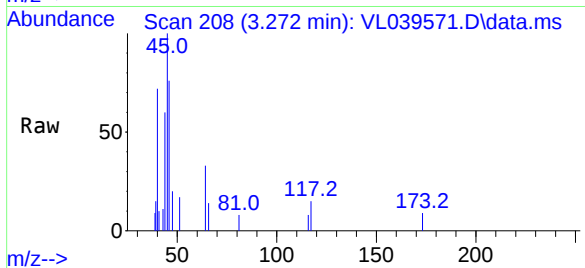
LOQ-AIR-02-QT3-2022

Tgt Ion: 45 Resp: 4608

Ion Ratio Lower Upper

45 100

46 30.7 19.3 77.1



#14

Bromoethene

Concen: 0.481 ppbv

RT: 3.391 min Scan# 245

Delta R.T. 0.007 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

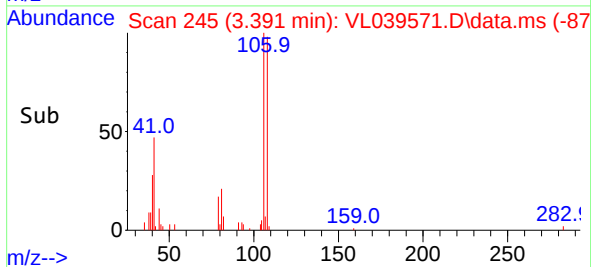
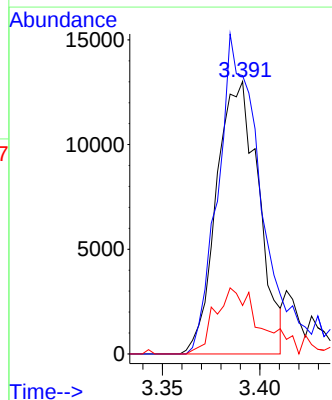
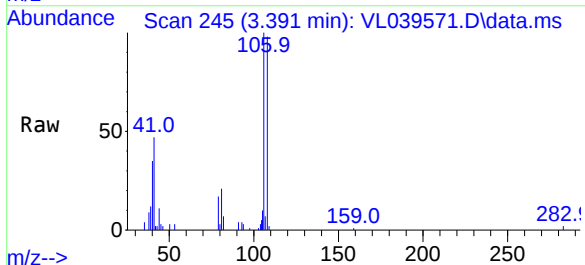
Tgt Ion:108 Resp: 19555

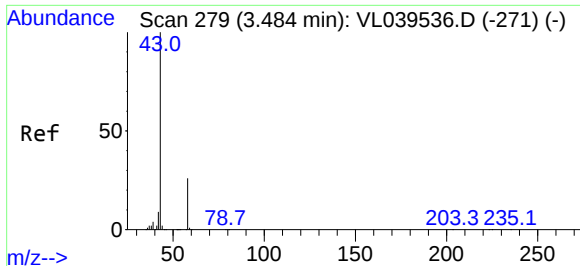
Ion Ratio Lower Upper

108 100

106 131.5 86.6 130.0#

79 32.5 15.1 22.7#

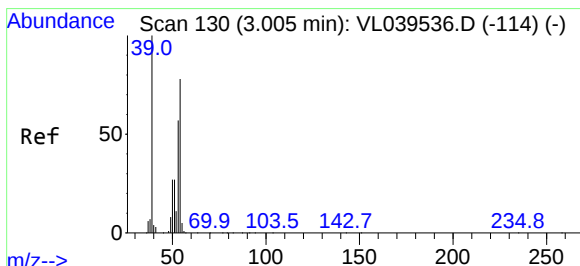
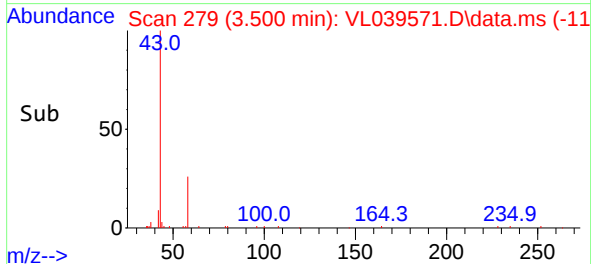
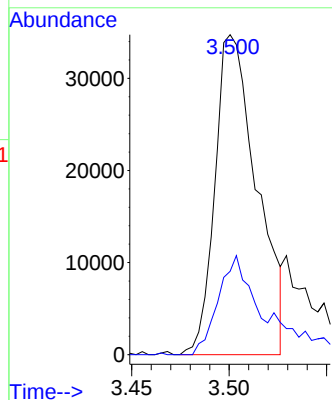
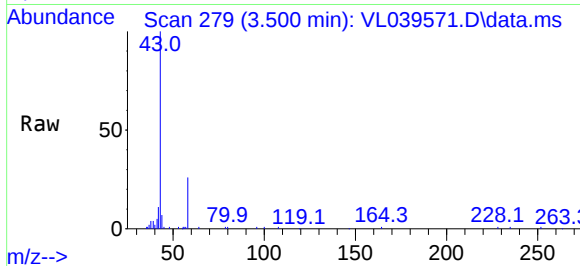




#15  
Acetone  
Concen: 0.504 ppbv  
RT: 3.500 min Scan# 21  
Delta R.T. 0.017 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

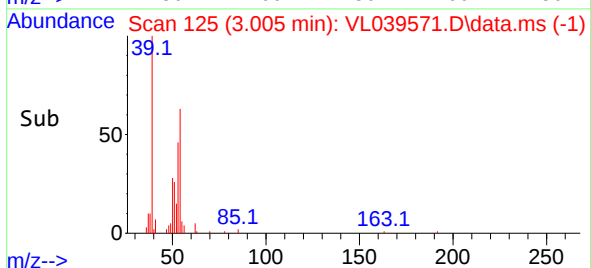
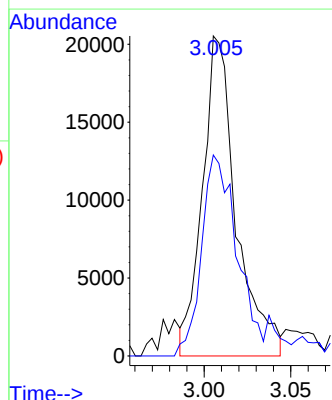
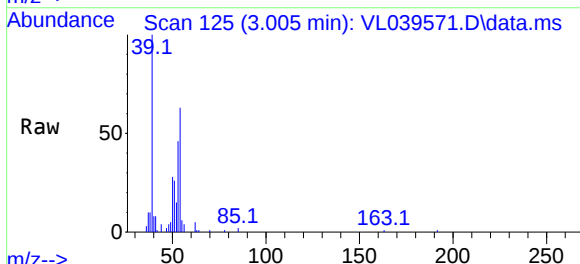
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

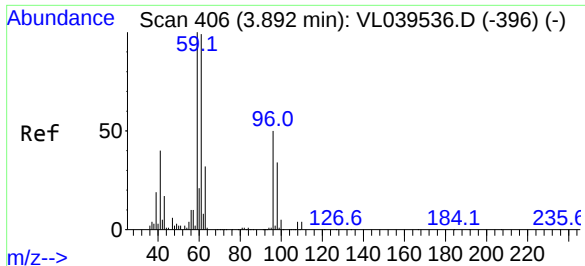
Tgt Ion: 43 Resp: 52009  
Ion Ratio Lower Upper  
43 100  
58 37.3 20.7 31.1#



#16  
1,3-Butadiene  
Concen: 0.519 ppbv  
RT: 3.005 min Scan# 125  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 39 Resp: 27815  
Ion Ratio Lower Upper  
39 100  
54 77.9 61.8 92.8

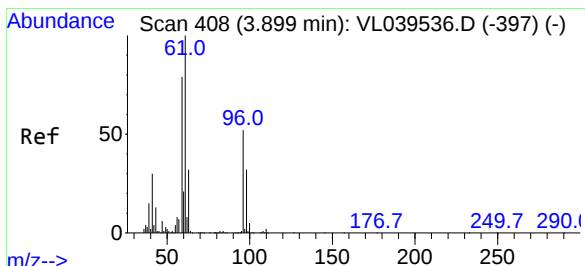
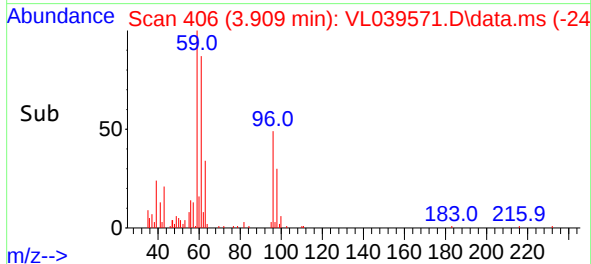
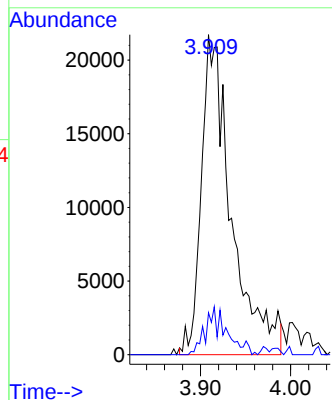
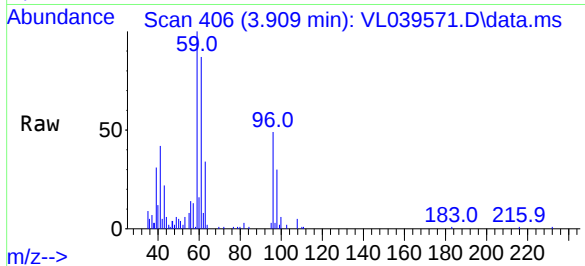




#17  
tert-Butyl alcohol  
Concen: 0.568 ppbv m  
RT: 3.909 min Scan# 406  
Delta R.T. 0.017 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

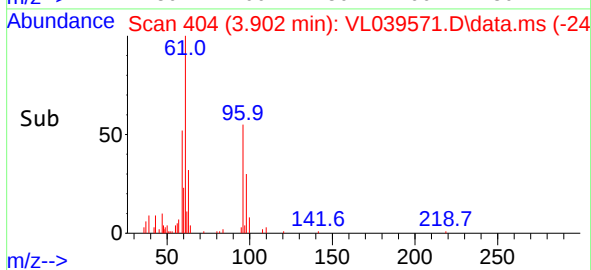
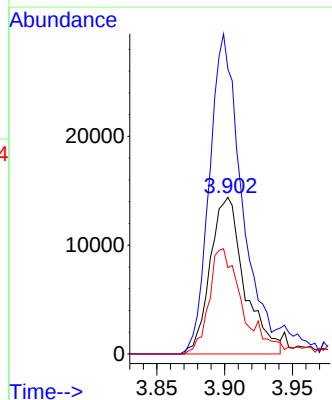
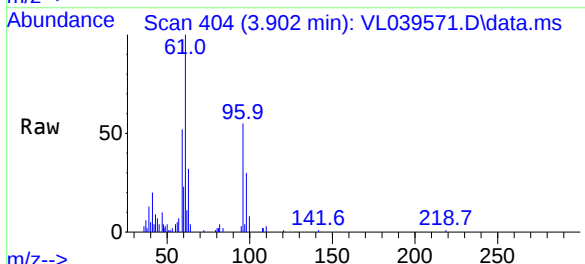
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

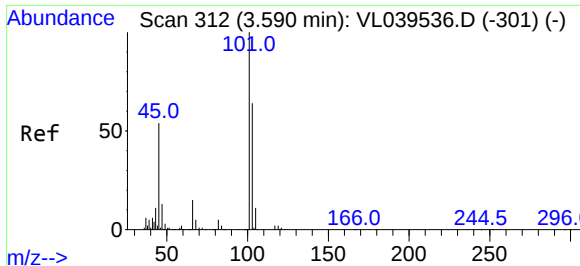
Tgt Ion: 59 Resp: 50013  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#



#18  
1,1-Dichloroethene  
Concen: 0.565 ppbv  
RT: 3.902 min Scan# 404  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 96 Resp: 25359  
Ion Ratio Lower Upper  
96 100  
61 182.0 153.8 230.6  
98 55.2 48.6 73.0

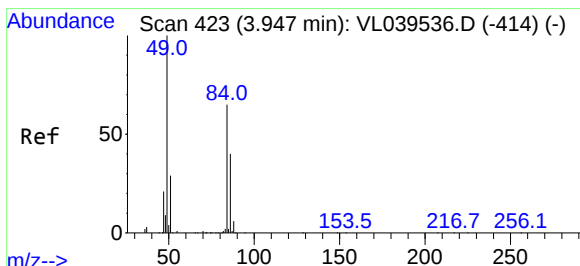
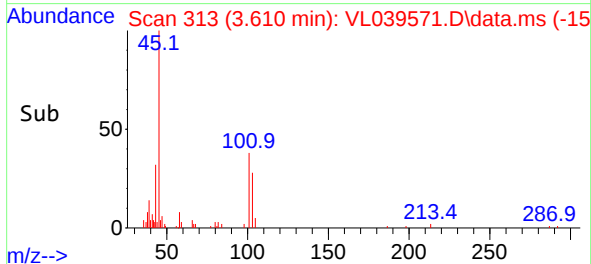
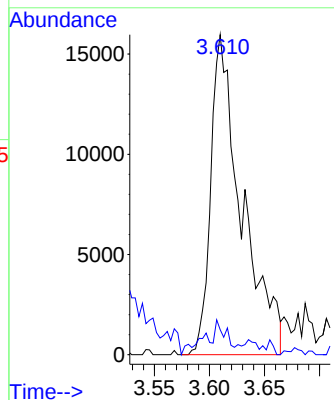
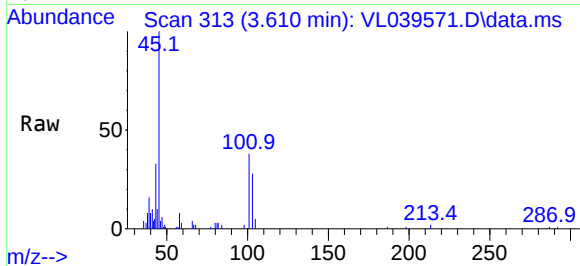




#19  
Isopropyl Alcohol  
Concen: 0.618 ppbv m  
RT: 3.610 min Scan# 312  
Delta R.T. 0.020 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

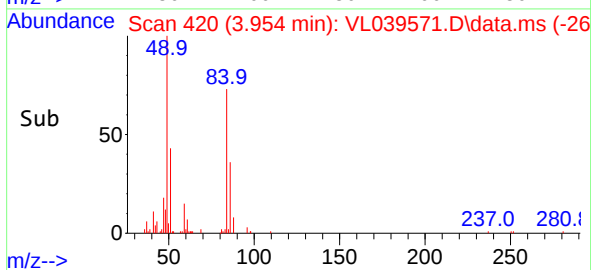
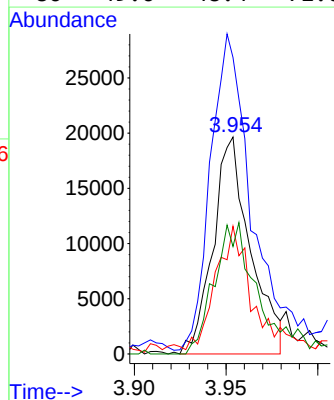
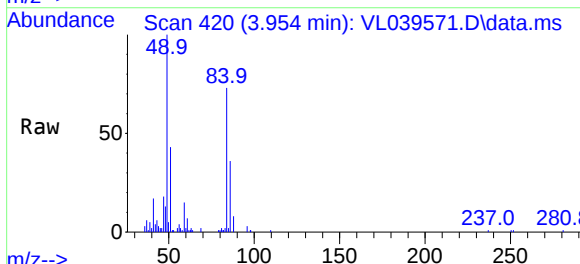
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

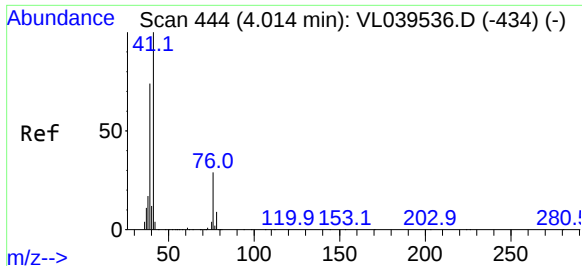
Tgt Ion: 45 Resp: 31166  
Ion Ratio Lower Upper  
45 100  
58 7.2 0.0 0.0#



#20  
Methylene Chloride  
Concen: 0.662 ppbv  
RT: 3.954 min Scan# 420  
Delta R.T. 0.007 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 84 Resp: 27818  
Ion Ratio Lower Upper  
84 100  
49 141.5 122.2 183.4  
51 55.4 35.8 53.6#  
86 49.6 48.4 72.6

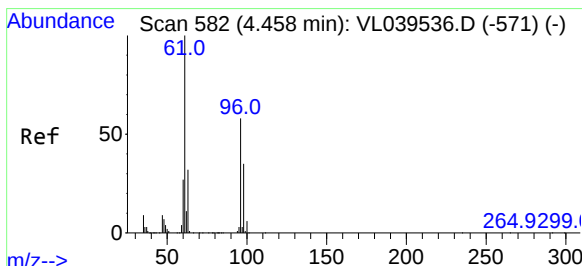
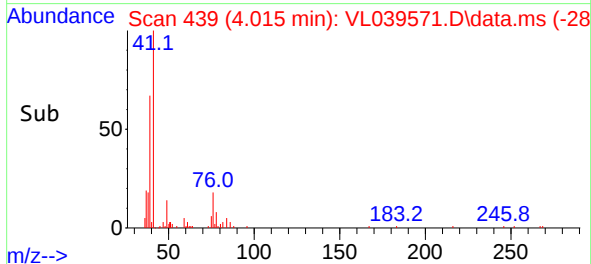
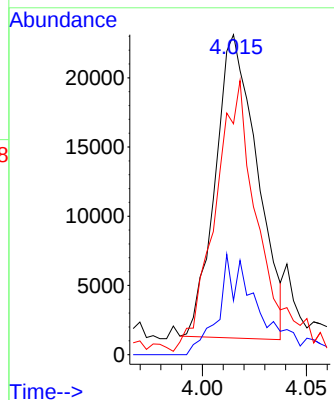
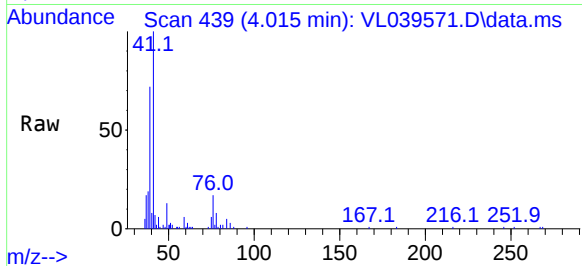




#21  
 Allyl Chloride  
 Concen: 0.457 ppbv  
 RT: 4.015 min Scan# 41  
 Delta R.T. 0.001 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

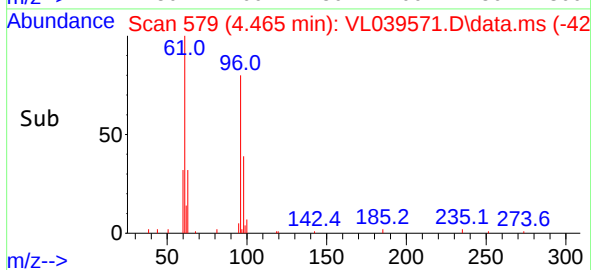
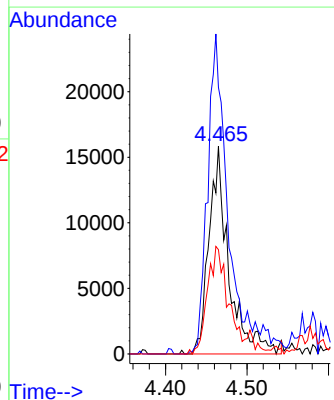
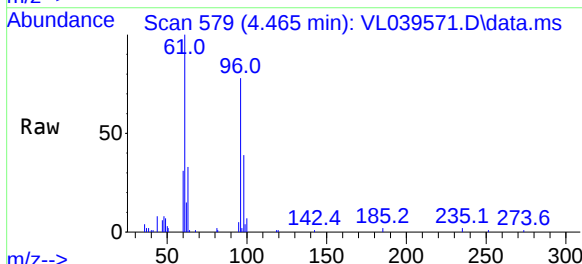
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 LOQ-AIR-02-QT3-2022

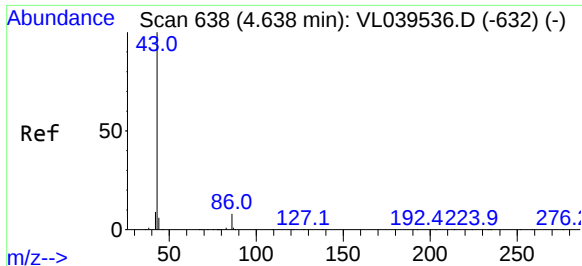
Tgt Ion: 41 Resp: 30659  
 Ion Ratio Lower Upper  
 41 100  
 76 34.8 23.1 34.7#  
 39 102.1 63.4 95.2#



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.603 ppbv m  
 RT: 4.465 min Scan# 579  
 Delta R.T. 0.007 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

Tgt Ion: 96 Resp: 26918  
 Ion Ratio Lower Upper  
 96 100  
 61 128.3 138.1 207.1#  
 98 50.2 48.8 73.2

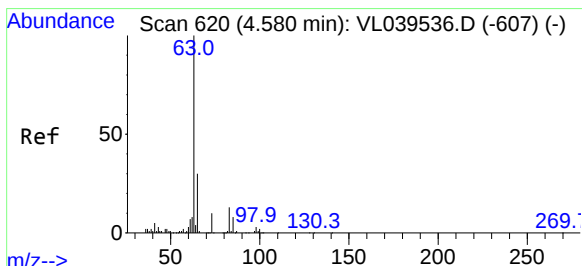
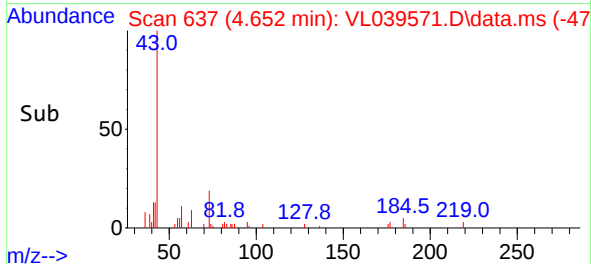
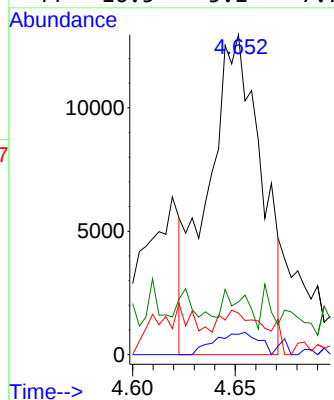
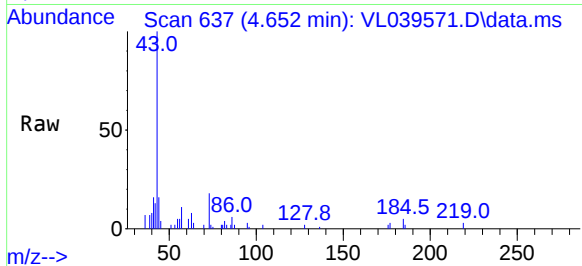




#23  
 Vinyl Acetate  
 Concen: 0.451 ppbv  
 RT: 4.652 min Scan# 615  
 Delta R.T. 0.013 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

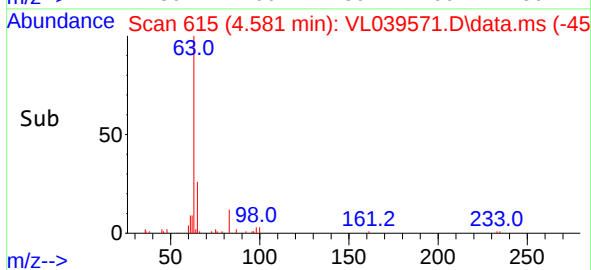
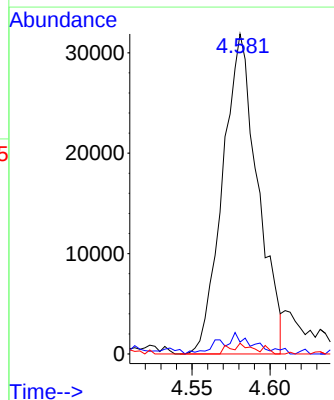
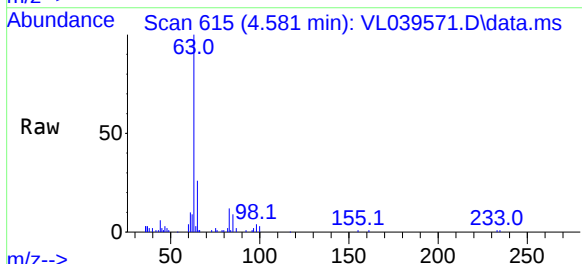
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 LOQ-AIR-02-QT3-2022

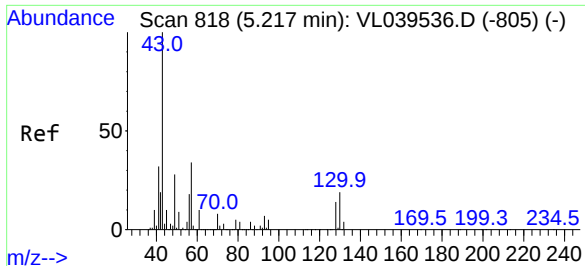
| Tgt Ion: | 43    | Resp: | 23378 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 6.4   | 5.3   | 7.9   |
| 42       | 13.0  | 8.7   | 13.1  |
| 44       | 16.5  | 5.1   | 7.7   |



#24  
 1,1-Dichloroethane  
 Concen: 0.546 ppbv  
 RT: 4.581 min Scan# 615  
 Delta R.T. 0.001 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

| Tgt Ion: | 63    | Resp: | 49834 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 2.4   | 1.7   | 5.0   |
| 100      | 3.3   | 1.1   | 3.3   |





#25

Ethyl Acetate

Concen: 0.469 ppbv

RT: 5.227 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT3-2022

Tgt Ion: 43 Resp: 103219

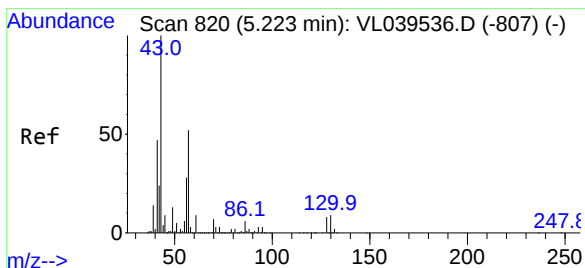
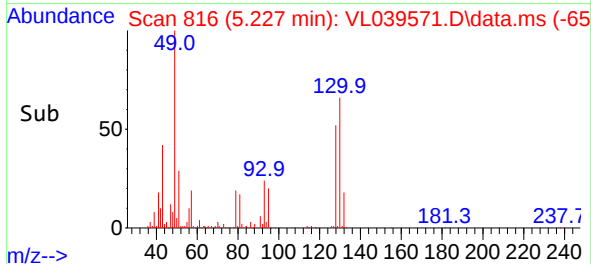
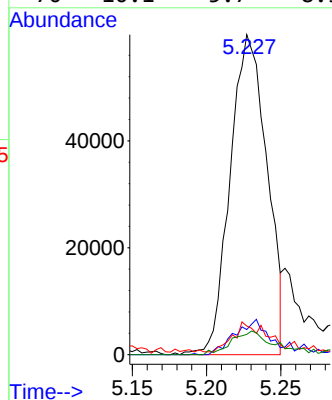
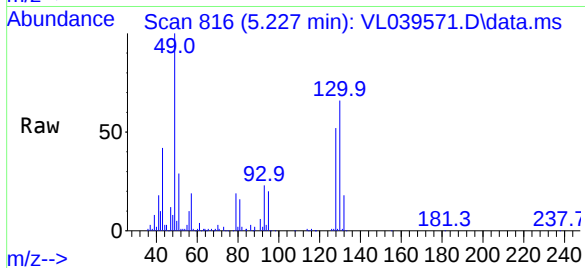
Ion Ratio Lower Upper

43 100

45 13.1 8.2 12.4#

61 13.9 8.6 12.8#

70 10.1 5.7 8.5#



#26

Hexane

Concen: 0.481 ppbv

RT: 5.224 min Scan# 815

Delta R.T. 0.001 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Tgt Ion: 57 Resp: 43416

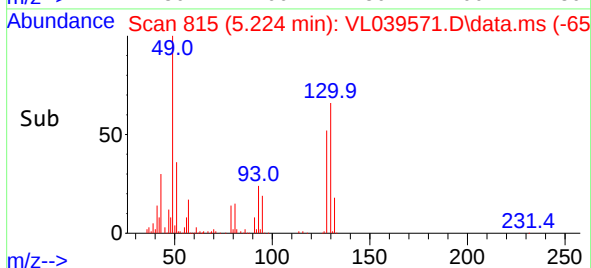
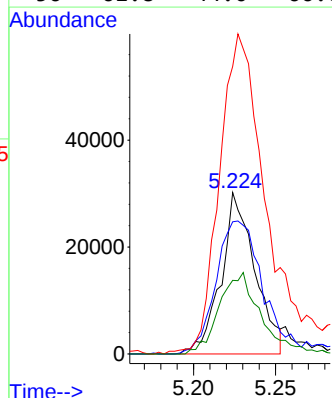
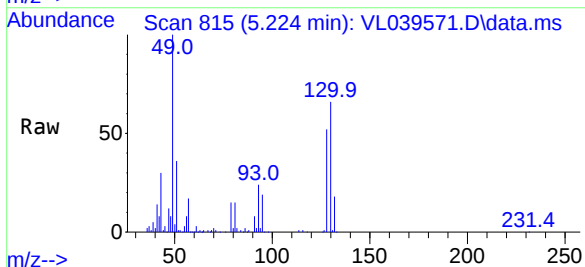
Ion Ratio Lower Upper

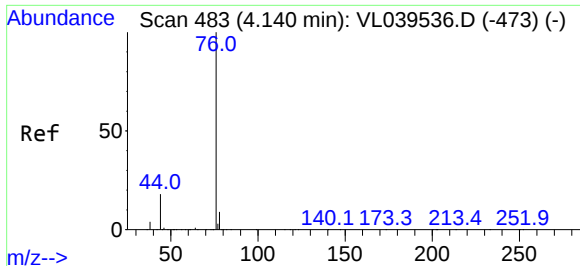
57 100

41 121.9 79.4 119.2#

43 295.4 199.7 299.5

56 61.8 44.0 66.0

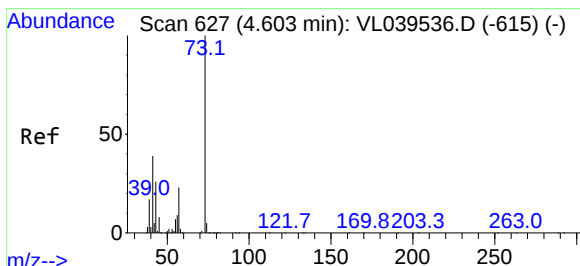
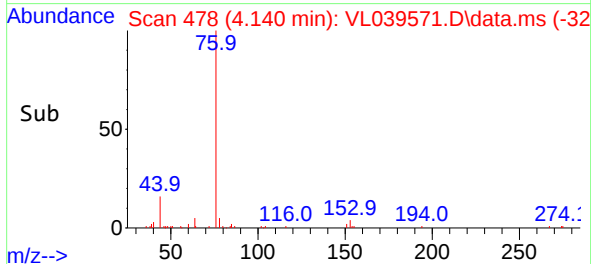
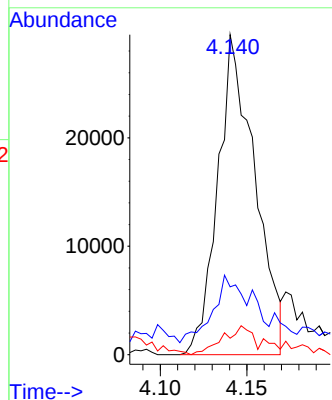
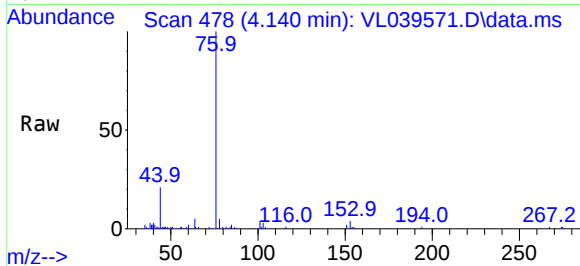




#27  
Carbon Disulfide  
Concen: 0.457 ppbv  
RT: 4.140 min Scan# 41  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

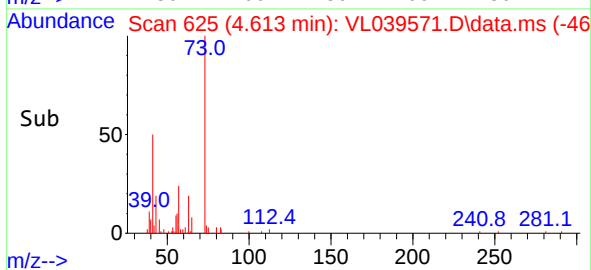
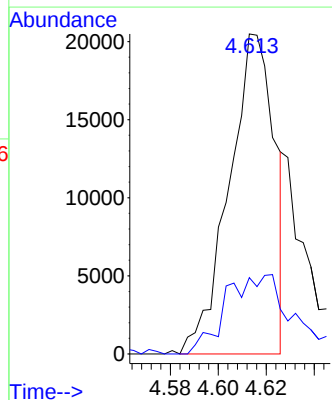
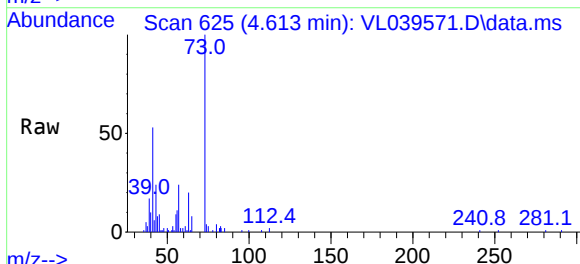
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

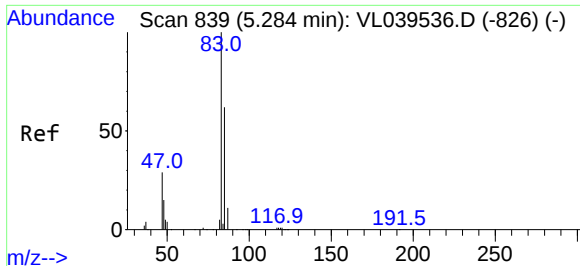
Tgt Ion: 76 Resp: 43999  
Ion Ratio Lower Upper  
76 100  
44 33.1 16.3 24.5#  
78 11.3 7.8 11.6



#28  
Methyl tert-Butyl Ether  
Concen: 0.340 ppbv  
RT: 4.613 min Scan# 625  
Delta R.T. 0.010 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 73 Resp: 27002  
Ion Ratio Lower Upper  
73 100  
57 41.2 19.8 29.6#





#29

Chloroform

Concen: 0.561 ppbv

RT: 5.285 min Scan# 81

Delta R.T. 0.001 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA\_L

ClientSampleId :

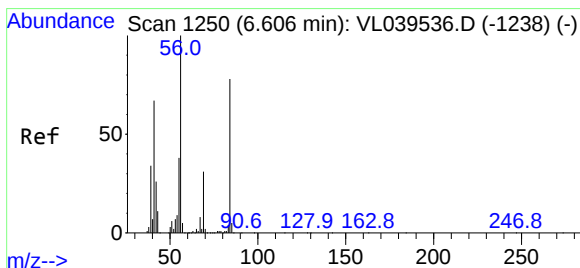
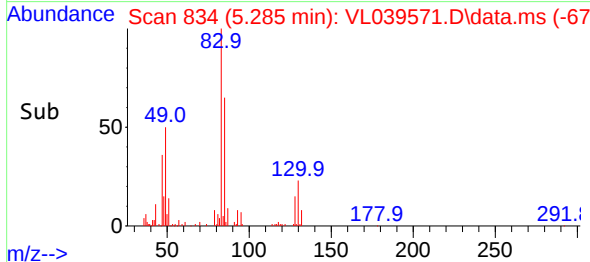
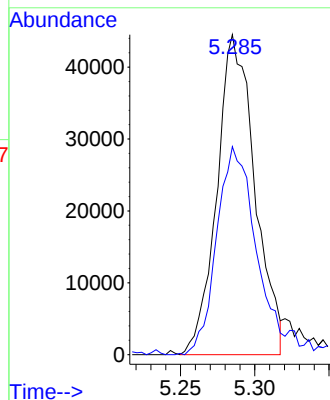
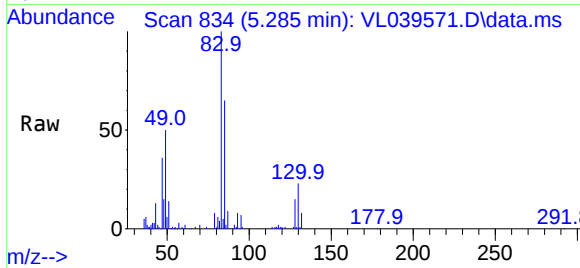
LOQ-AIR-02-QT3-2022

Tgt Ion: 83 Resp: 79139

Ion Ratio Lower Upper

83 100

85 64.6 49.8 74.8



#30

Cyclohexane

Concen: 0.294 ppbv

RT: 6.613 min Scan# 1247

Delta R.T. 0.007 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

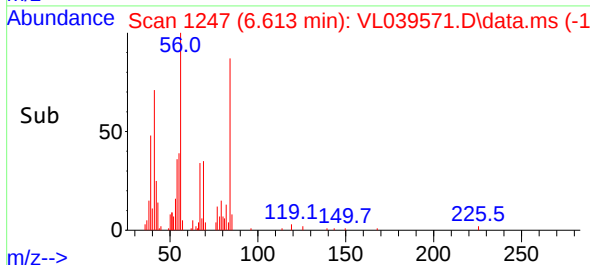
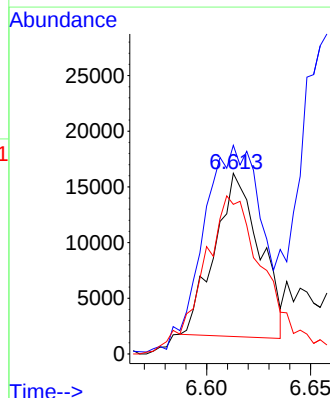
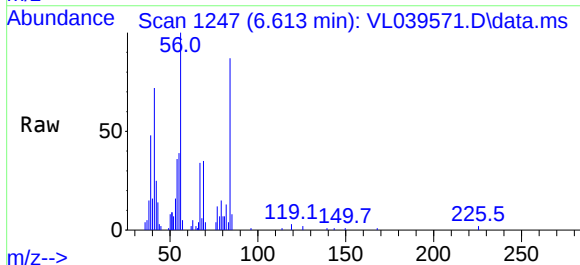
Tgt Ion: 84 Resp: 22036

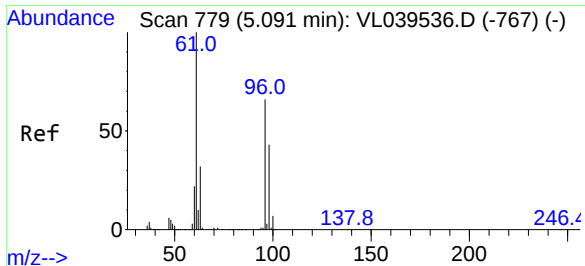
Ion Ratio Lower Upper

84 100

56 181.4 0.0 0.0#

41 138.0 0.0 0.0#

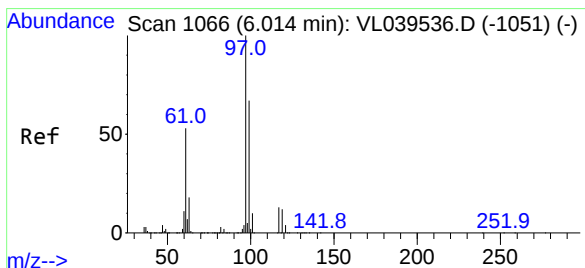
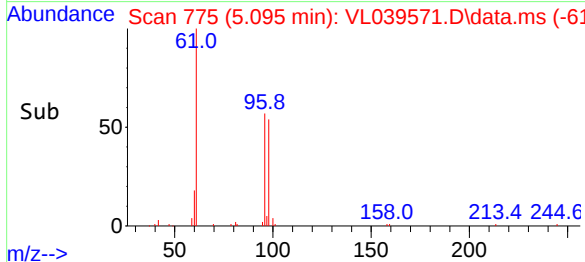
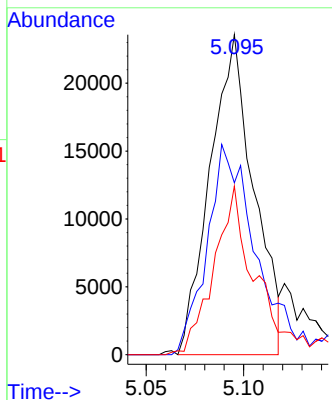
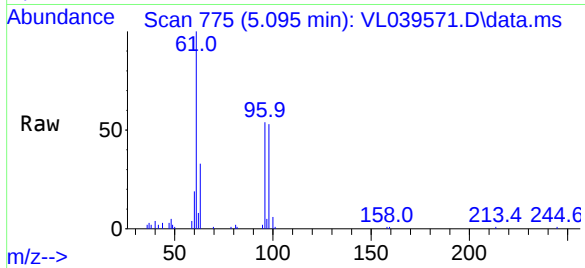




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.422 ppbv  
 RT: 5.095 min Scan# 71  
 Delta R.T. 0.004 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

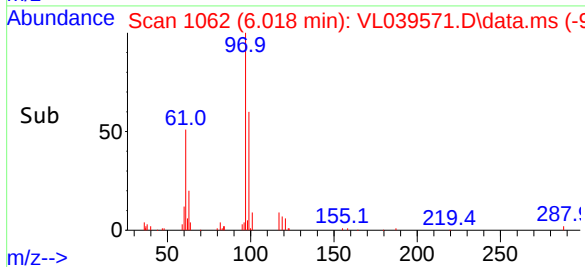
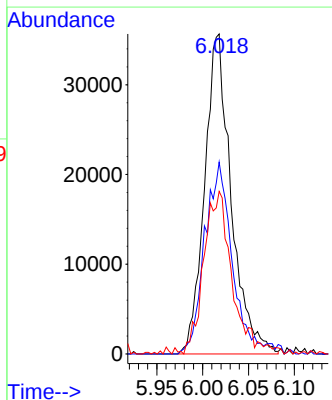
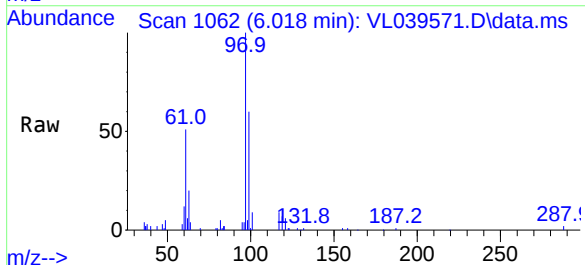
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT3-2022

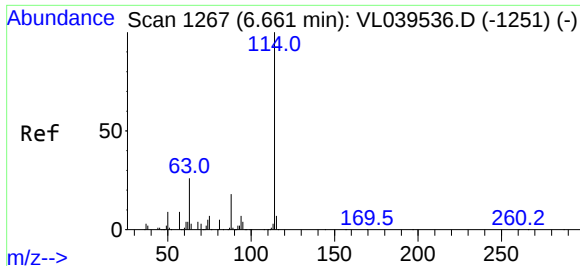
Tgt Ion: 61 Resp: 36794  
 Ion Ratio Lower Upper  
 61 100  
 96 52.1 52.9 79.3#  
 98 51.5 34.5 51.7



#32  
 1,1,1-Trichloroethane  
 Concen: 0.543 ppbv  
 RT: 6.018 min Scan# 1062  
 Delta R.T. 0.004 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

Tgt Ion: 97 Resp: 71965  
 Ion Ratio Lower Upper  
 97 100  
 99 63.2 52.4 78.6  
 61 55.2 42.9 64.3

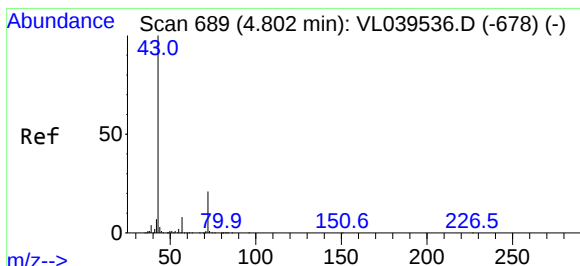
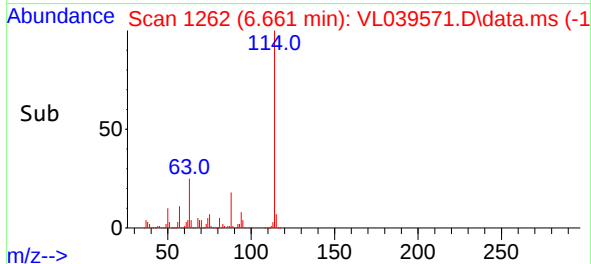
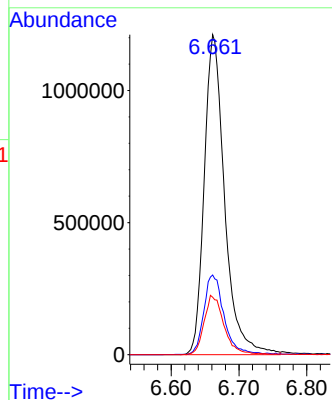
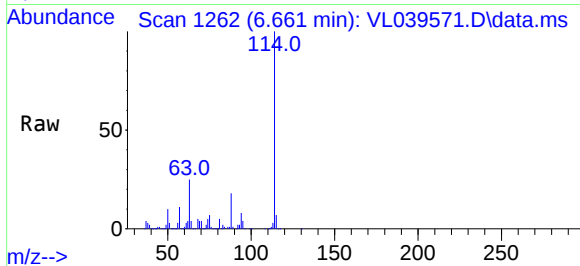




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.661 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

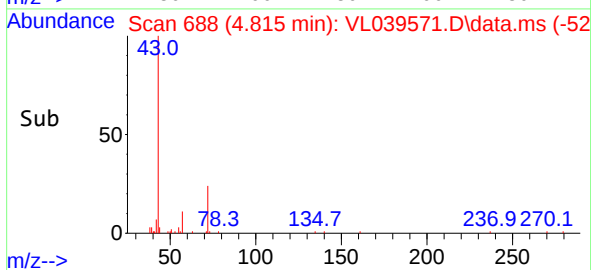
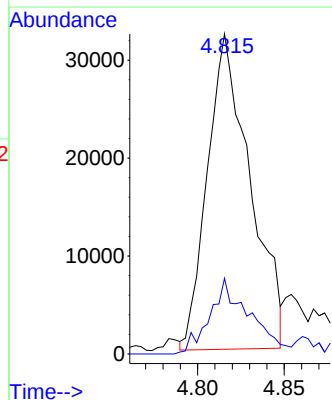
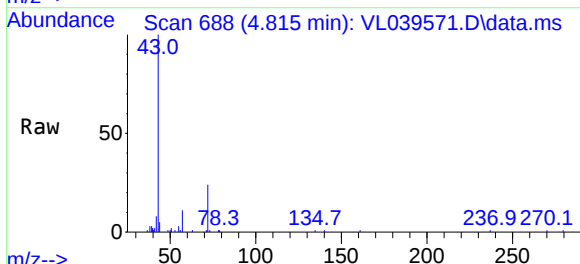
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

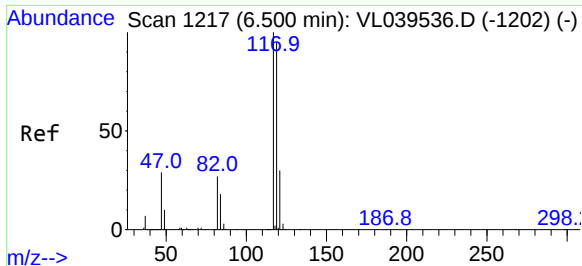
Tgt Ion:114 Resp: 2528573  
Ion Ratio Lower Upper  
114 100  
63 25.3 20.6 31.0  
88 18.4 14.6 22.0



#34  
2-Butanone  
Concen: 0.434 ppbv  
RT: 4.815 min Scan# 688  
Delta R.T. 0.013 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 43 Resp: 55117  
Ion Ratio Lower Upper  
43 100  
72 22.0 17.4 26.0

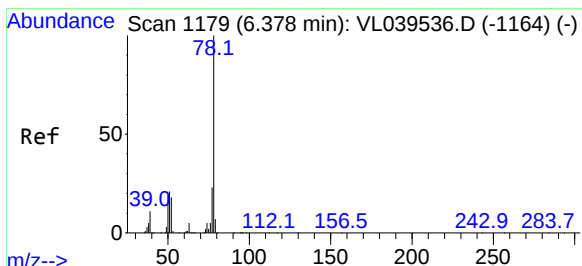
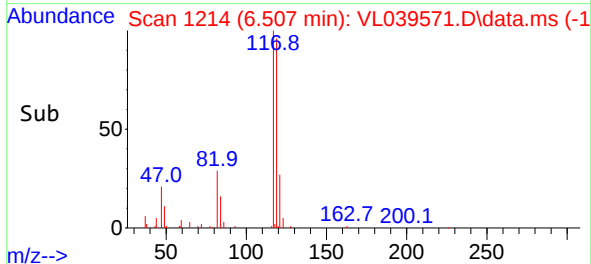
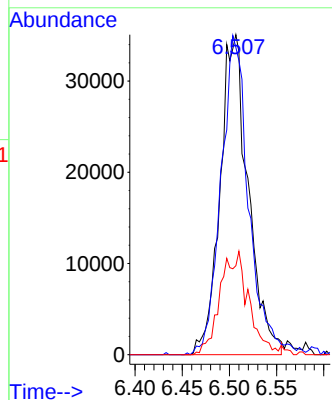
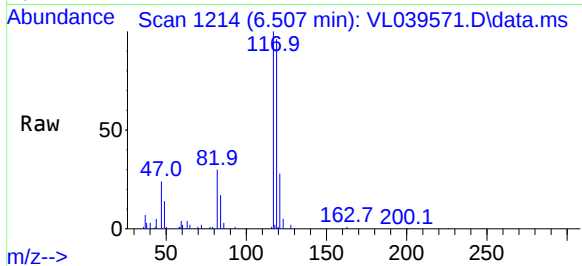




#35  
Carbon Tetrachloride  
Concen: 0.513 ppbv m  
RT: 6.507 min Scan# 1175  
Delta R.T. 0.007 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

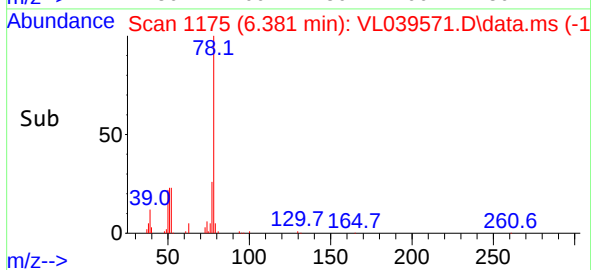
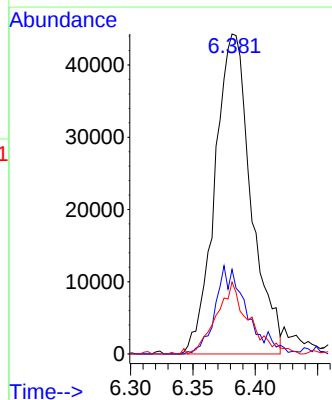
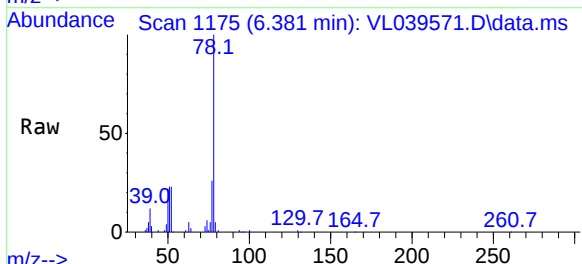
Instrument :  
MSVOA\_1  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

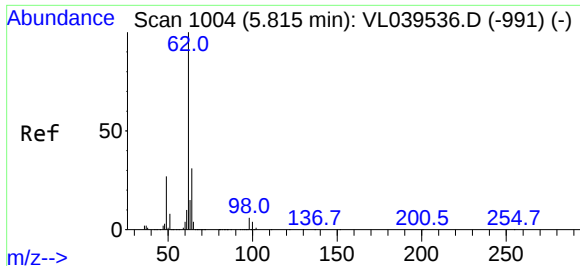
Tgt Ion:117 Resp: 72990  
Ion Ratio Lower Upper  
117 100  
119 96.0 76.2 114.4  
121 27.8 24.4 36.6



#36  
Benzene  
Concen: 0.463 ppbv  
RT: 6.381 min Scan# 1175  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 78 Resp: 89302  
Ion Ratio Lower Upper  
78 100  
77 26.4 18.6 27.8  
50 22.5 15.0 22.4#

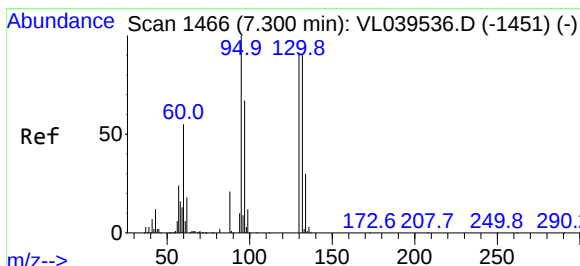
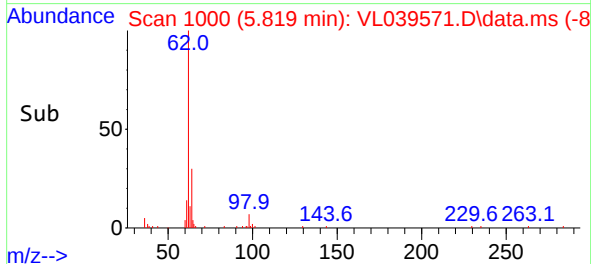
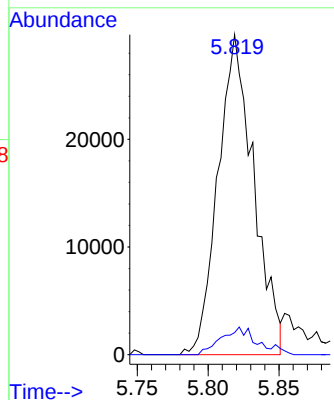
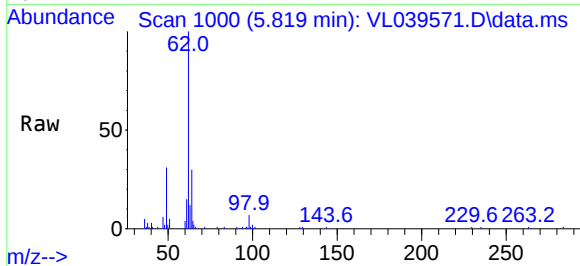




#37  
1,2-Dichloroethane  
Concen: 0.485 ppbv  
RT: 5.819 min Scan# 1004  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

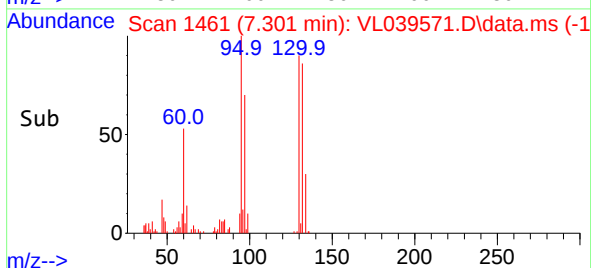
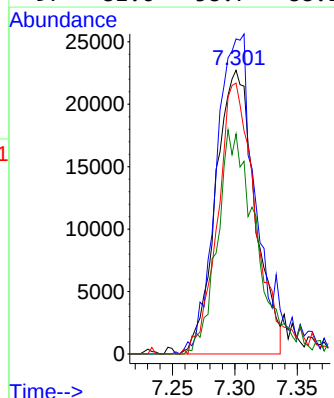
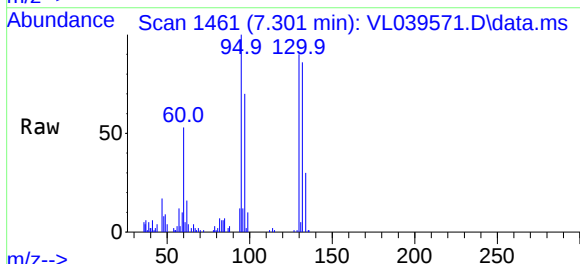
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

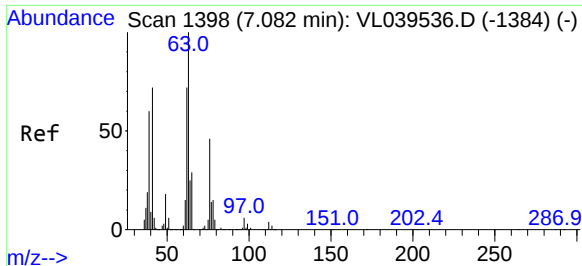
Tgt Ion: 62 Resp: 51924  
Ion Ratio Lower Upper  
62 100  
98 8.8 5.4 8.2#



#38  
Trichloroethene  
Concen: 0.473 ppbv  
RT: 7.301 min Scan# 1461  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion:130 Resp: 49540  
Ion Ratio Lower Upper  
130 100  
95 116.8 88.0 132.0  
132 100.5 79.1 118.7  
97 81.6 58.7 88.1

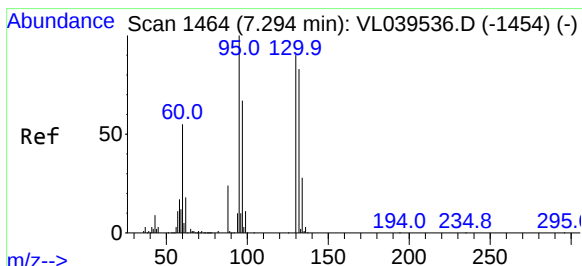
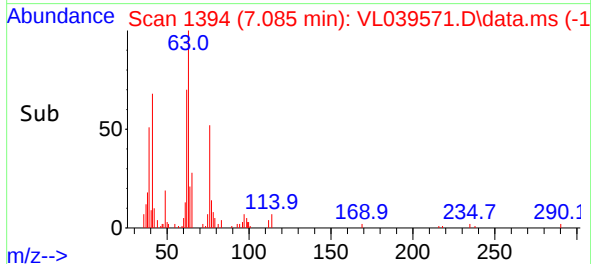
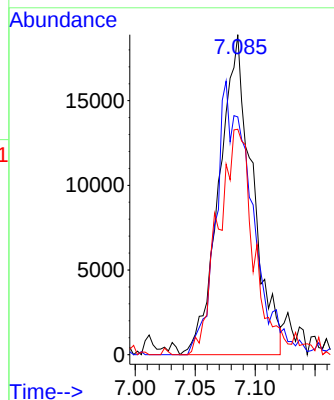
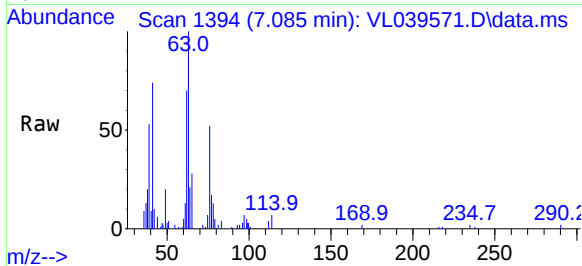




#39  
1,2-Dichloropropane  
Concen: 0.504 ppbv  
RT: 7.085 min Scan# 11  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

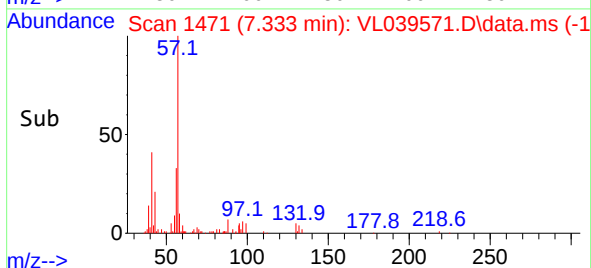
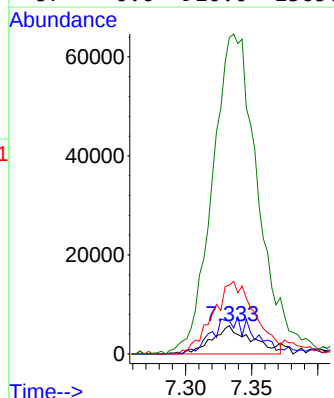
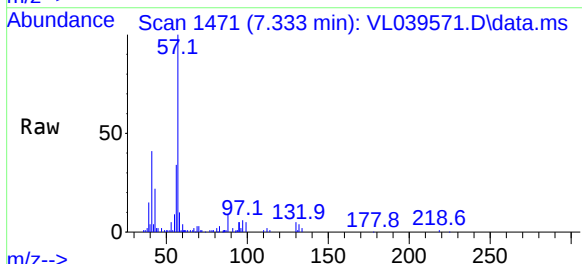
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

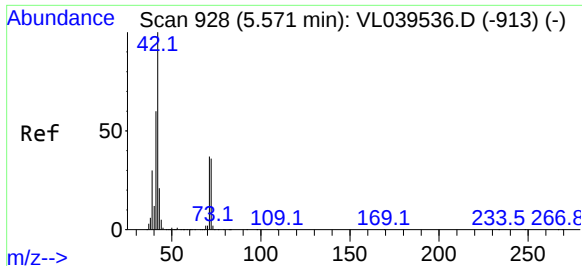
|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 36366 |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 41 75.2     | 58.0 87.0   |
| 62 71.3     | 57.8 86.8   |



#40  
1,4-Dioxane  
Concen: 0.418 ppbv m  
RT: 7.333 min Scan# 1471  
Delta R.T. 0.039 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

|             |               |
|-------------|---------------|
| Tgt Ion: 88 | Resp: 11964   |
| Ion Ratio   | Lower Upper   |
| 88 100      |               |
| 58 0.0      | 102.8 154.2#  |
| 43 0.0      | 216.2 324.2#  |
| 57 0.0      | 910.0 1365.0# |

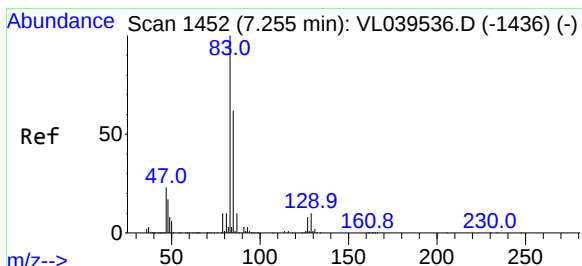
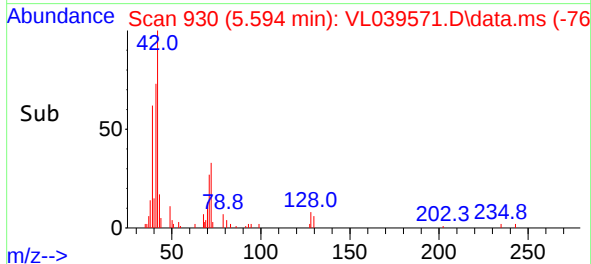
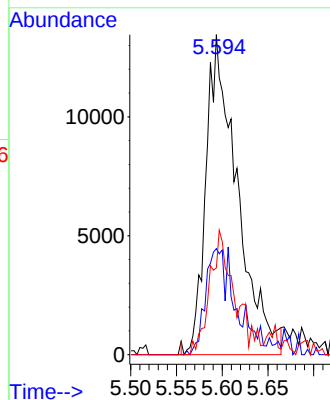
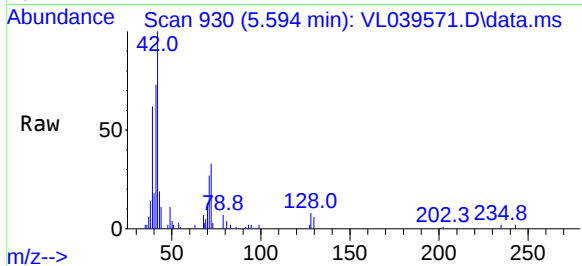




#41  
Tetrahydrofuran  
Concen: 0.426 ppbv m  
RT: 5.594 min Scan# 91  
Delta R.T. 0.023 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

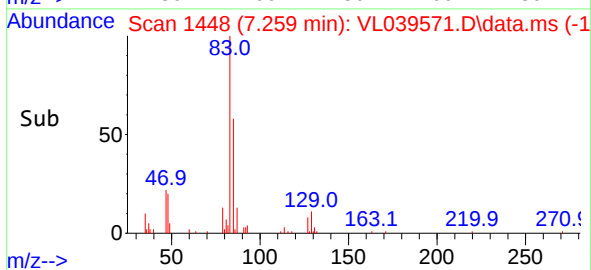
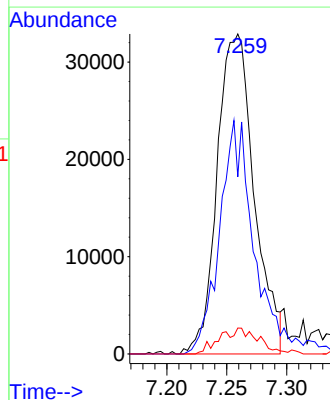
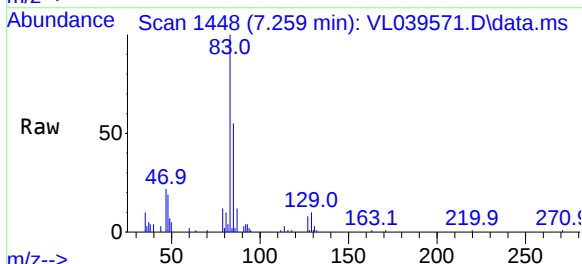
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

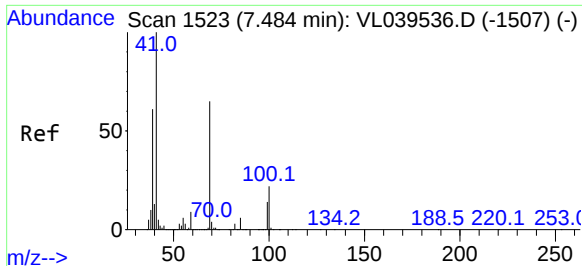
Tgt Ion: 42 Resp: 31896  
Ion Ratio Lower Upper  
42 100  
72 0.0 30.6 45.8#  
71 31.7 30.7 46.1



#42  
Bromodichloromethane  
Concen: 0.483 ppbv  
RT: 7.259 min Scan# 1448  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 83 Resp: 70737  
Ion Ratio Lower Upper  
83 100  
85 55.4 49.9 74.9  
127 8.1 6.7 10.1





#43

Methyl Methacrylate

Concen: 0.301 ppbv

RT: 7.491 min Scan# 1

Delta R.T. 0.007 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT3-2022

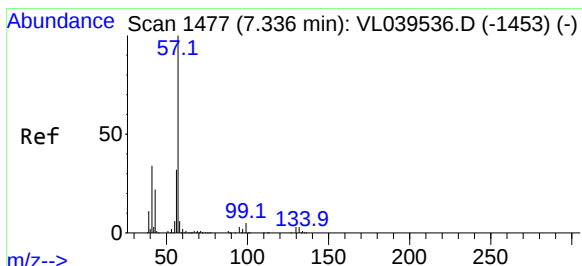
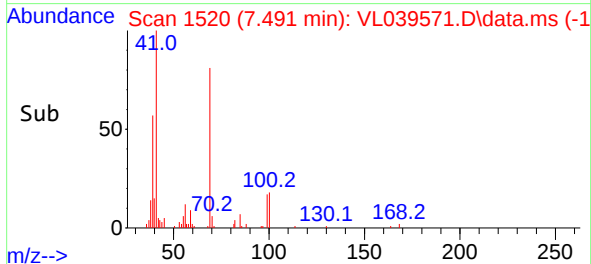
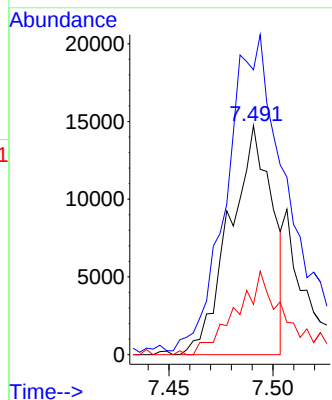
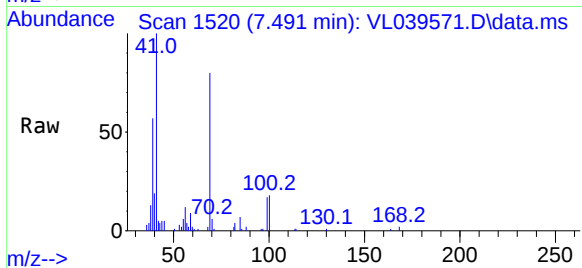
Tgt Ion: 69 Resp: 20977

Ion Ratio Lower Upper

69 100

41 214.5 123.0 184.6#

100 45.5 27.4 41.2#



#44

2,2,4-Trimethylpentane

Concen: 0.477 ppbv m

RT: 7.336 min Scan# 1472

Delta R.T. 0.001 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

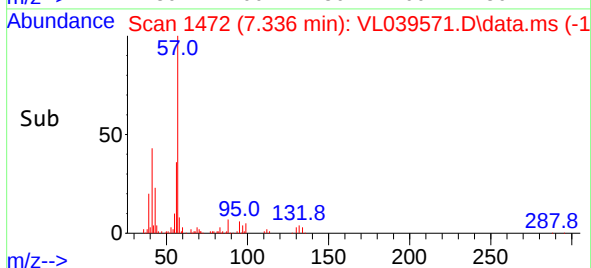
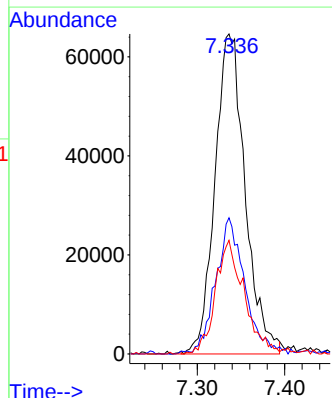
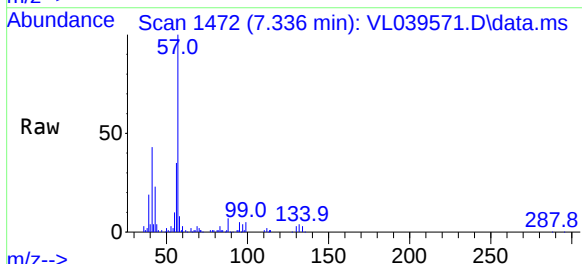
Tgt Ion: 57 Resp: 154958

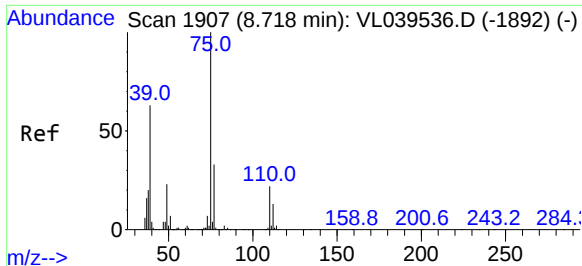
Ion Ratio Lower Upper

57 100

41 41.7 27.8 41.6#

56 34.2 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 0.339 ppbv m

RT: 8.712 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA\_L

ClientSampleId :

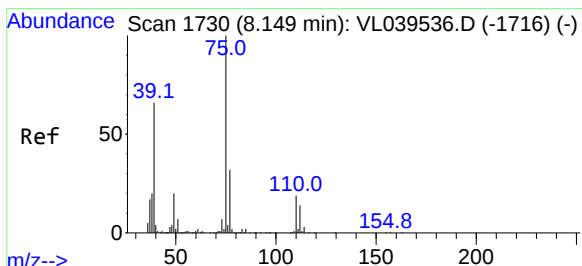
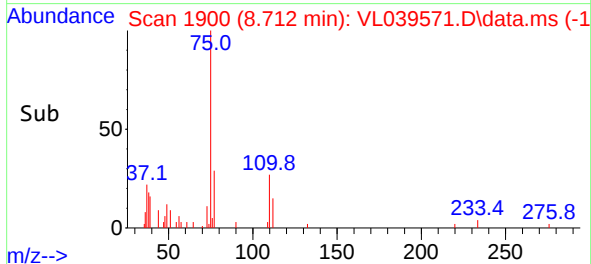
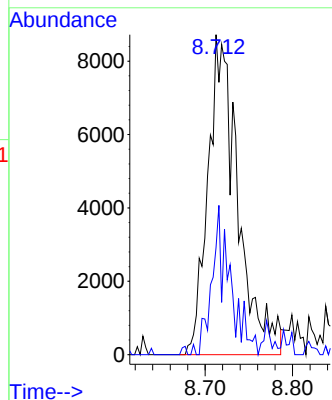
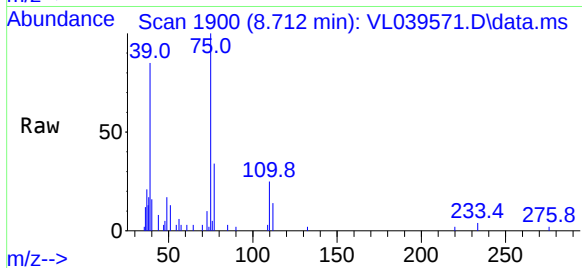
LOQ-AIR-02-QT3-2022

Tgt Ion: 75 Resp: 20815

Ion Ratio Lower Upper

75 100

77 33.5 26.2 39.2



#46

cis-1,3-Dichloropropene

Concen: 0.340 ppbv

RT: 8.153 min Scan# 1726

Delta R.T. 0.004 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

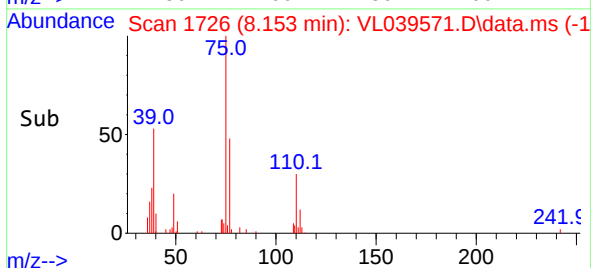
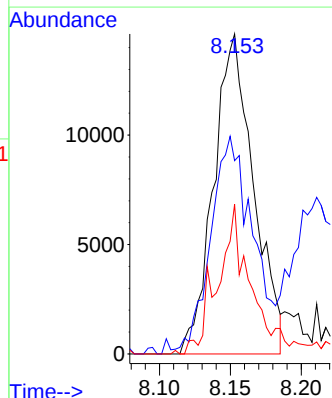
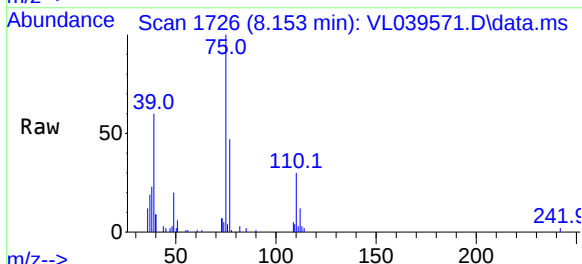
Tgt Ion: 75 Resp: 28718

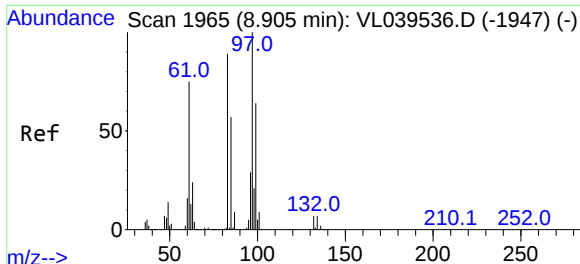
Ion Ratio Lower Upper

75 100

39 58.4 52.8 79.2

77 46.8 25.3 37.9#

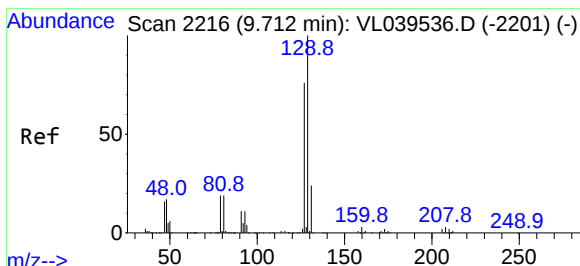
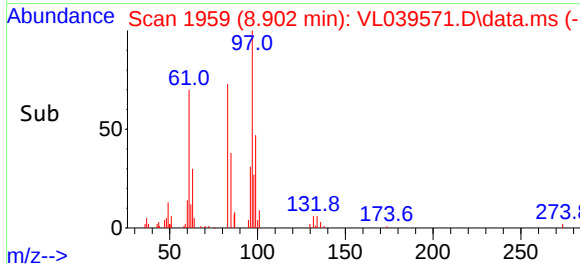
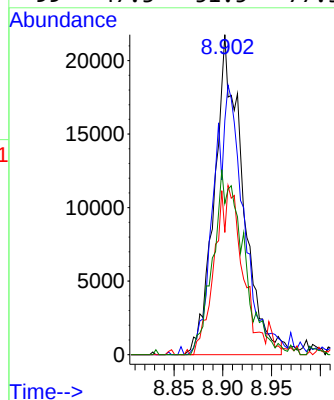
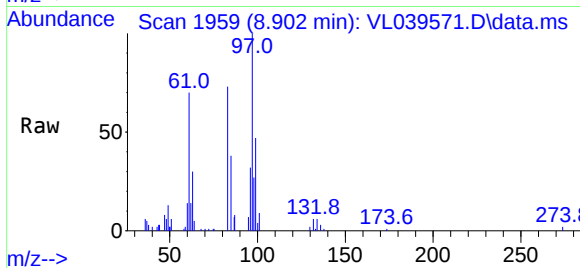




#47  
1,1,2-Trichloroethane  
Concen: 0.526 ppbv  
RT: 8.902 min Scan# 1965  
Delta R.T. -0.003 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

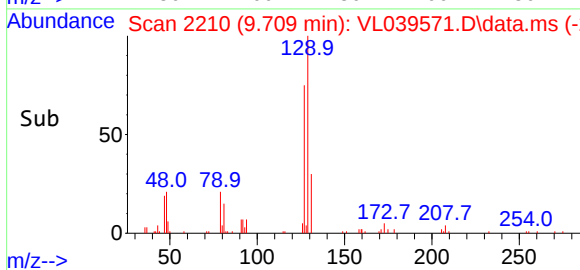
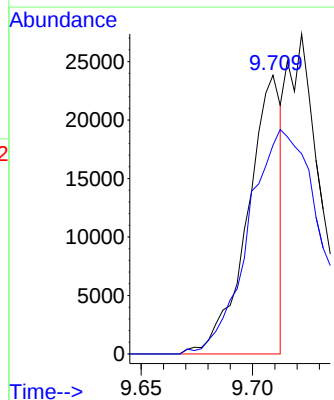
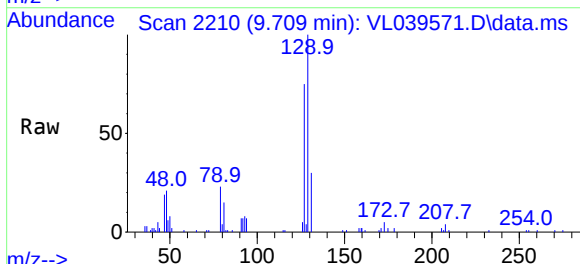
Instrument : MSVOA\_L  
ClientSampleId : LOQ-AIR-02-QT3-2022

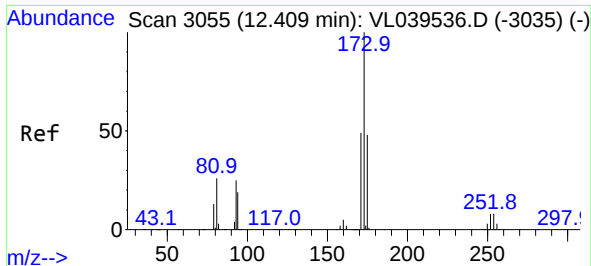
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 43560 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 73.2  | 70.8  | 106.2 |
| 85       | 38.2  | 45.4  | 68.2# |
| 99       | 47.3  | 51.5  | 77.3# |



#48  
Dibromochloromethane  
Concen: 0.204 ppbv  
RT: 9.709 min Scan# 2210  
Delta R.T. -0.003 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 25073  |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 181.9 | 38.8  | 116.3# |

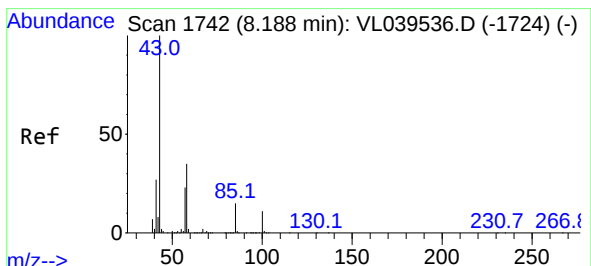
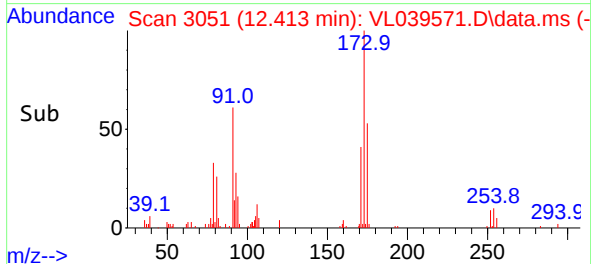
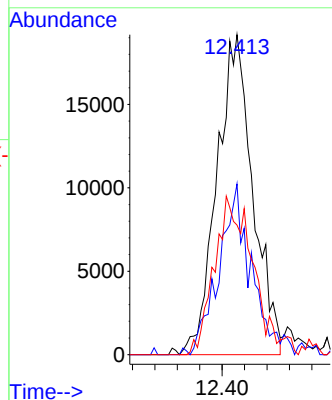
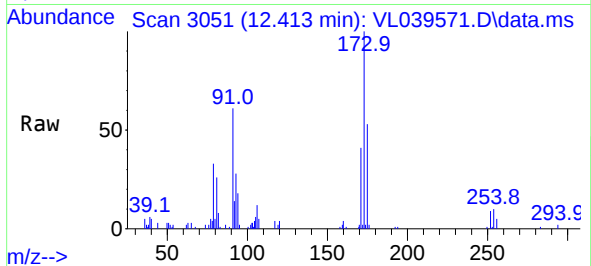




#49  
Bromoform  
Concen: 0.420 ppbv m  
RT: 12.413 min Scan# 3055  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

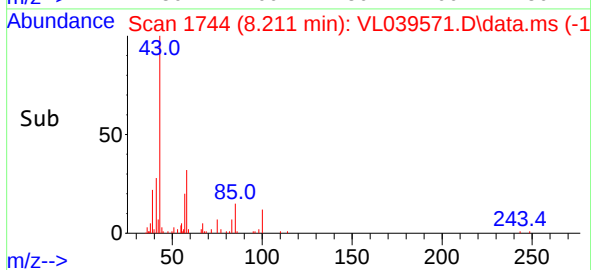
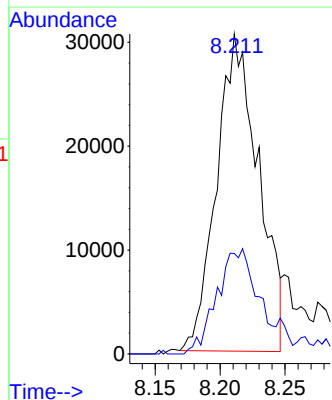
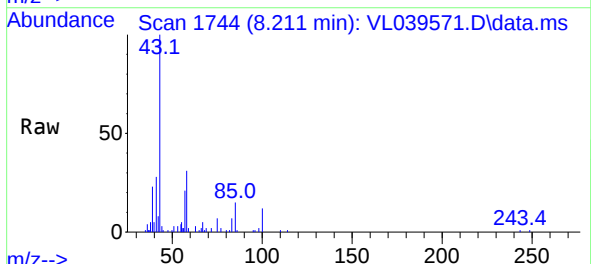
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

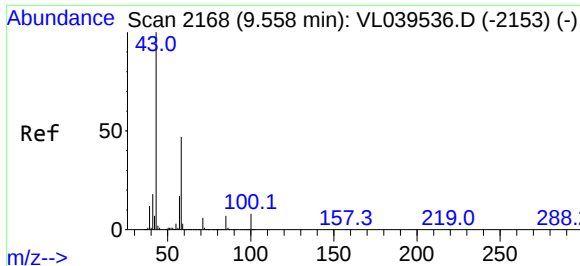
Tgt Ion:173 Resp: 42792  
Ion Ratio Lower Upper  
173 100  
175 49.7 0.0 0.0#  
171 0.0 0.0 0.0



#50  
4-Methyl-2-Pentanone  
Concen: 0.350 ppbv  
RT: 8.211 min Scan# 1744  
Delta R.T. 0.023 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 43 Resp: 68476  
Ion Ratio Lower Upper  
43 100  
58 37.9 28.0 42.0

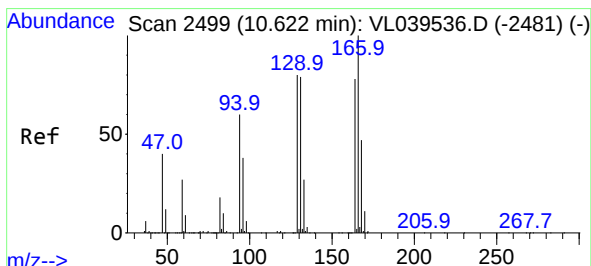
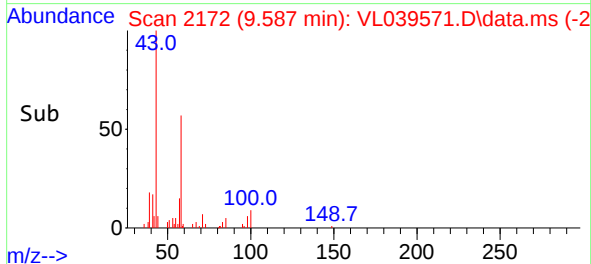
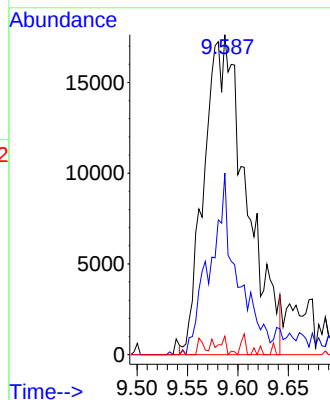
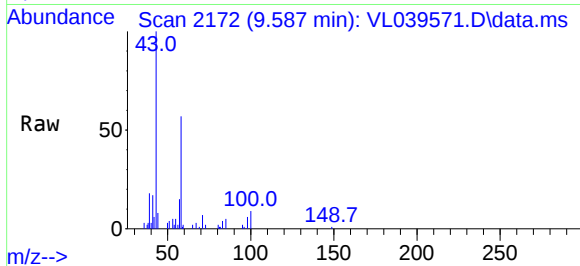




#51  
2-Hexanone  
Concen: 0.356 ppbv m  
RT: 9.587 min Scan# 2168  
Delta R.T. 0.029 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

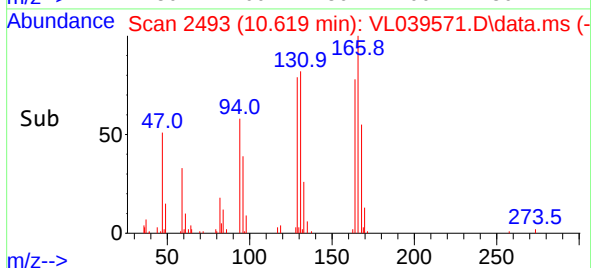
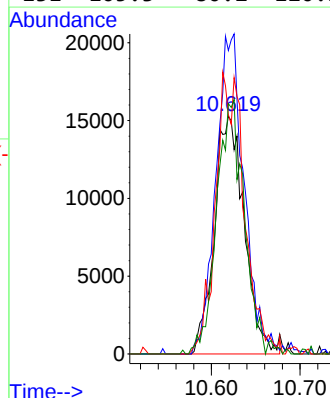
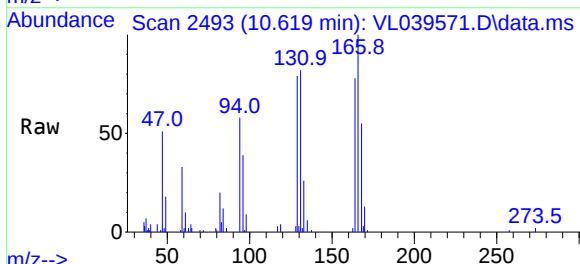
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

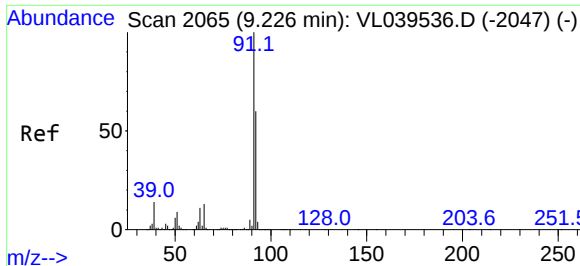
Tgt Ion: 43 Resp: 51389  
Ion Ratio Lower Upper  
43 100  
58 0.0 37.5 56.3#  
98 0.0 0.5 0.7#



#52  
Tetrachloroethene  
Concen: 0.477 ppbv m  
RT: 10.619 min Scan# 2493  
Delta R.T. -0.003 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 164 Resp: 36001  
Ion Ratio Lower Upper  
164 100  
166 127.7 102.0 153.0  
129 100.8 81.7 122.5  
131 105.3 80.2 120.2

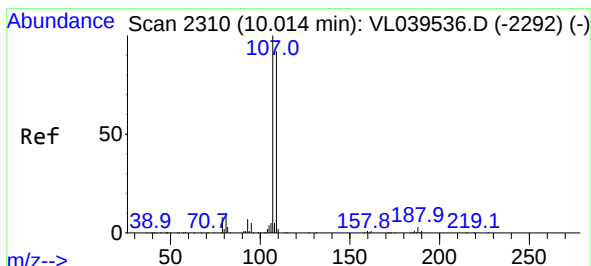
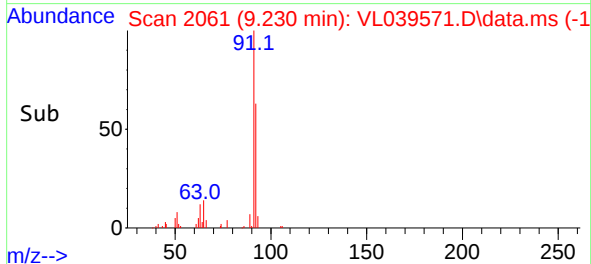
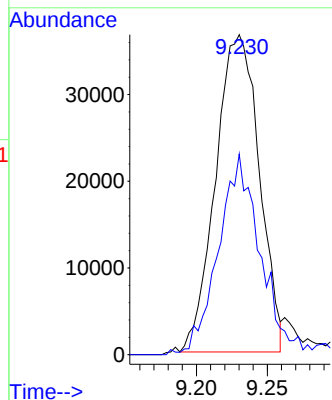
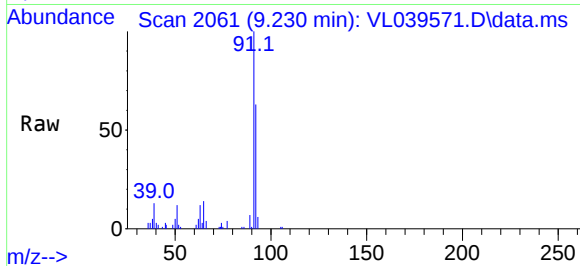




#53  
Toluene  
Concen: 0.363 ppbv  
RT: 9.230 min Scan# 2065  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

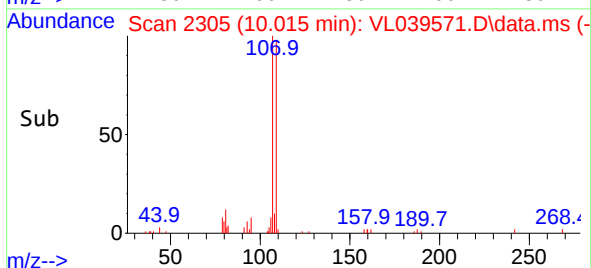
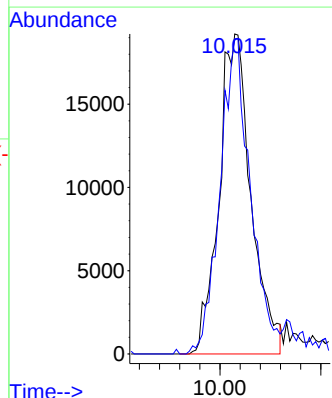
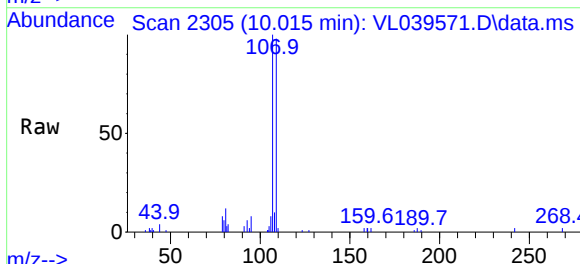
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

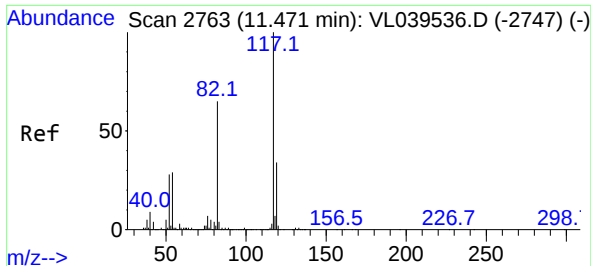
Tgt Ion: 91 Resp: 78395  
Ion Ratio Lower Upper  
91 100  
92 62.3 47.9 71.9



#54  
1,2-Dibromoethane  
Concen: 0.448 ppbv m  
RT: 10.015 min Scan# 2305  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 107 Resp: 42336  
Ion Ratio Lower Upper  
107 100  
109 98.3 73.4 110.2

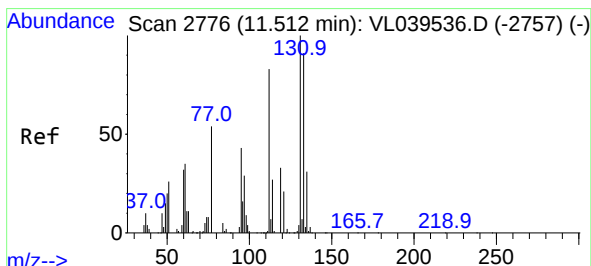
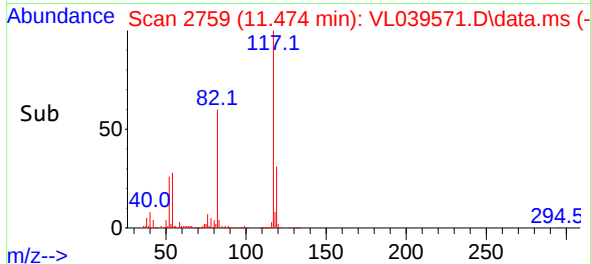
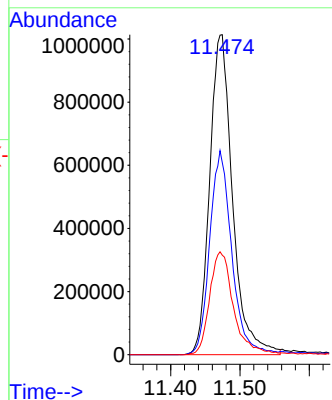
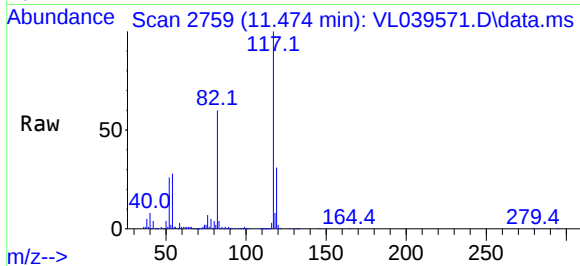




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.474 min Scan# 21  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

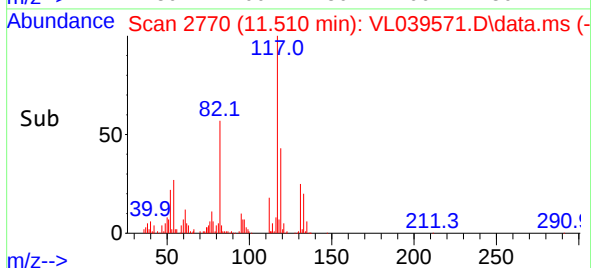
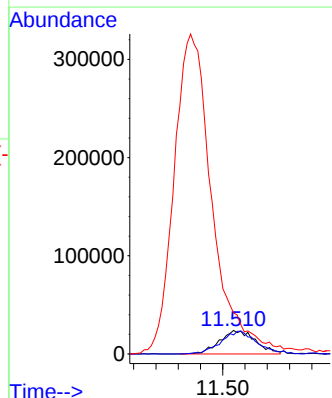
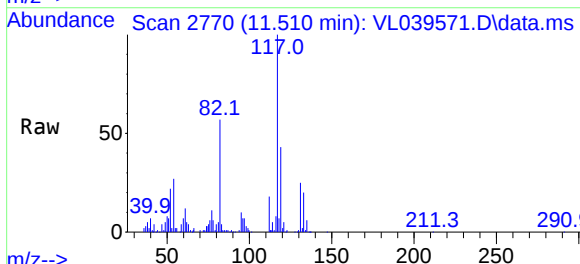
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

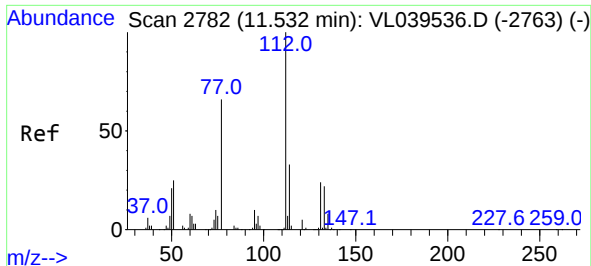
Tgt Ion:117 Resp: 2322749  
Ion Ratio Lower Upper  
117 100  
82 63.0 49.1 73.7  
119 33.8 25.9 38.9



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.558 ppbv  
RT: 11.510 min Scan# 2770  
Delta R.T. -0.003 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion:131 Resp: 53374  
Ion Ratio Lower Upper  
131 100  
133 97.8 75.4 113.2  
119 1481.6 47.4 71.2#

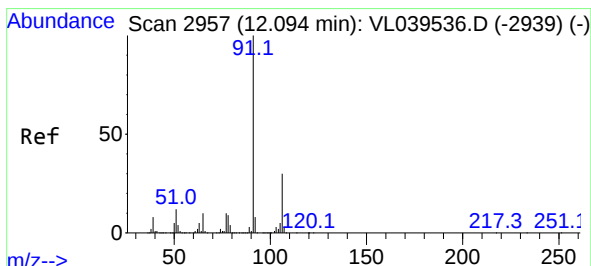
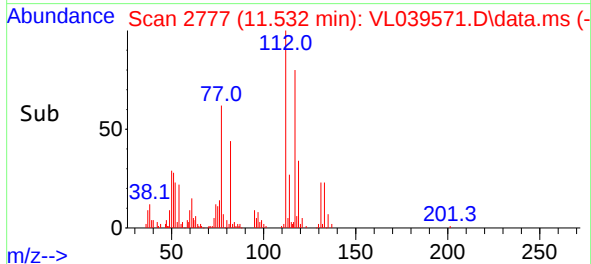
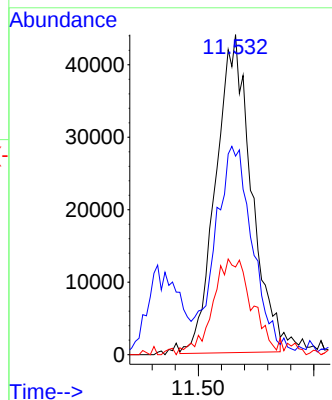
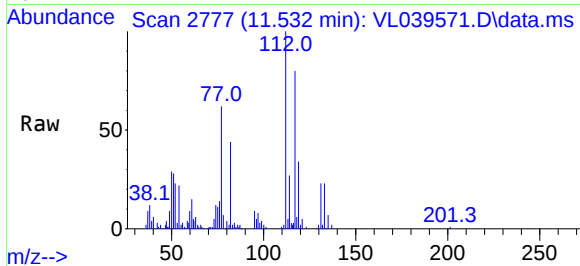




#57  
Chlorobenzene  
Concen: 0.534 ppbv  
RT: 11.532 min Scan# 21  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

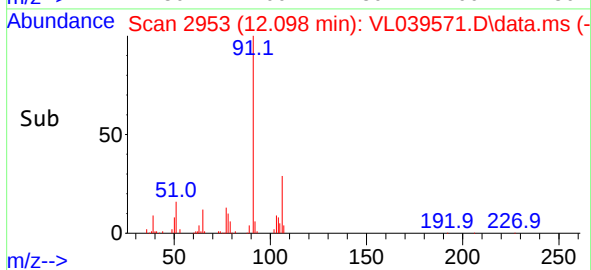
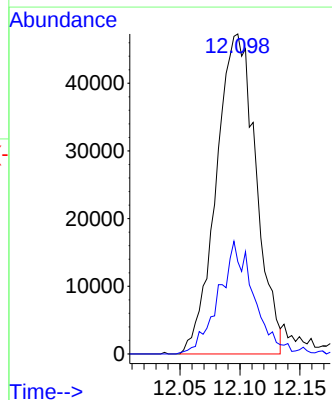
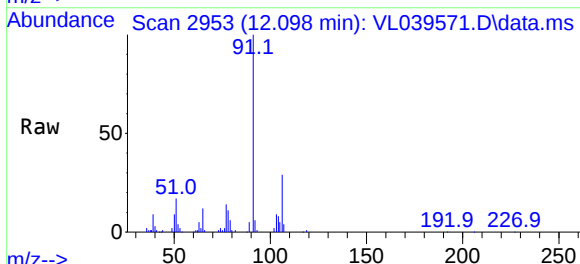
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

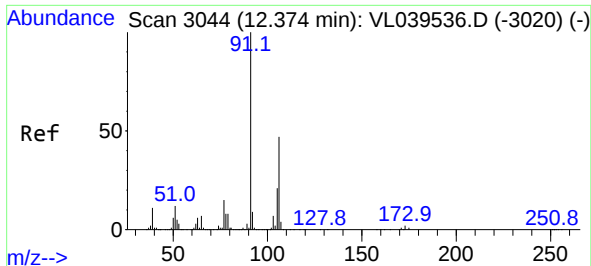
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 93173 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 77       | 59.4  | 53.4  | 80.0  |
| 114      | 25.5  | 29.5  | 36.1  |



#58  
Ethyl Benzene  
Concen: 0.405 ppbv  
RT: 12.098 min Scan# 2953  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 108820 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 106      | 28.5  | 24.2  | 36.4   |





#59

m/p-Xylene

Concen: 0.925 ppbv m

RT: 12.381 min Scan# 3044

Delta R.T. 0.007 min

Lab File: VL039571.D

Acq: 18 Aug 2022 23:04

Instrument :

MSVOA\_L

ClientSampleId :

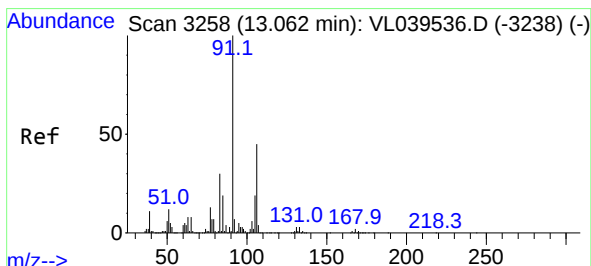
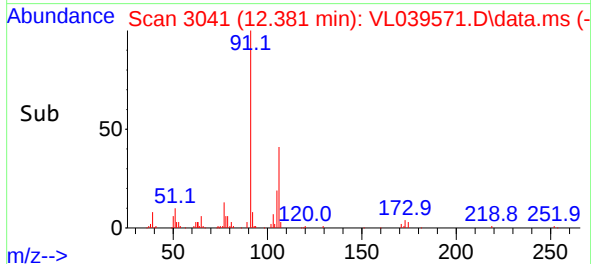
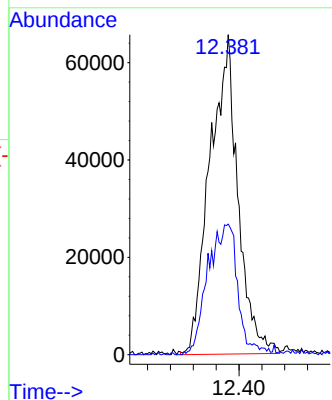
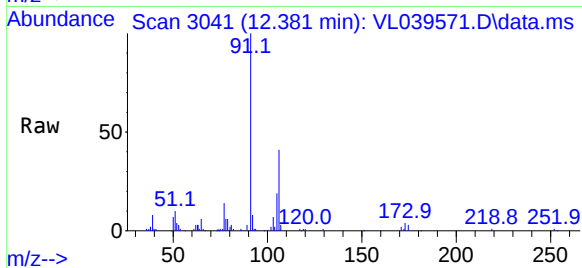
LOQ-AIR-02-QT3-2022

Tgt Ion: 91 Resp: 223631

Ion Ratio Lower Upper

91 100

106 44.0 0.0 0.0#



#60

o-Xylene

Concen: 0.423 ppbv

RT: 13.069 min Scan# 3255

Delta R.T. 0.007 min

Lab File: VL039571.D

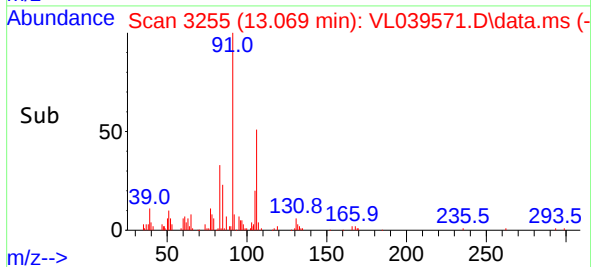
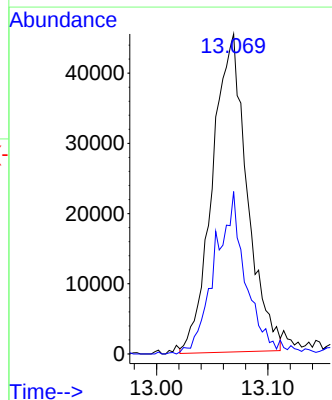
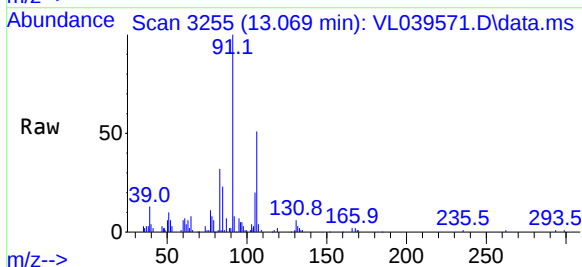
Acq: 18 Aug 2022 23:04

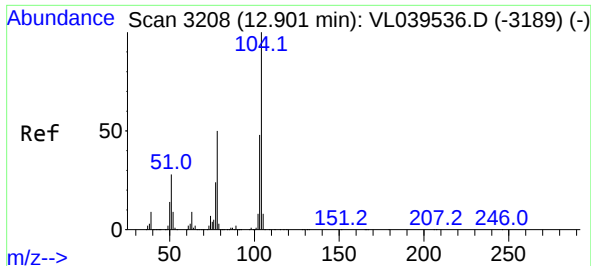
Tgt Ion: 91 Resp: 98193

Ion Ratio Lower Upper

91 100

106 46.5 22.7 68.0

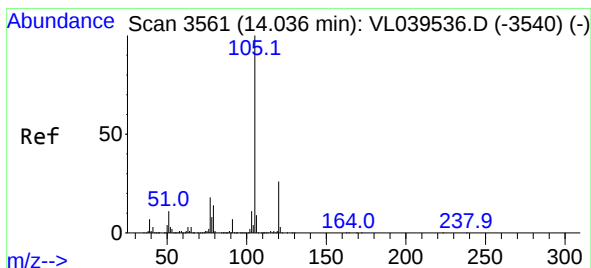
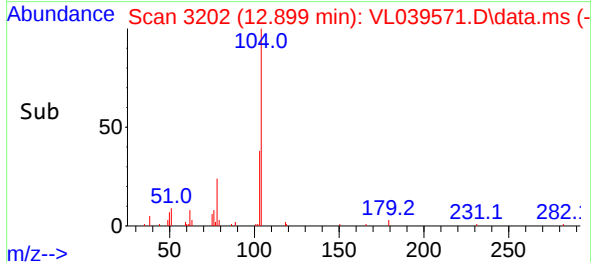
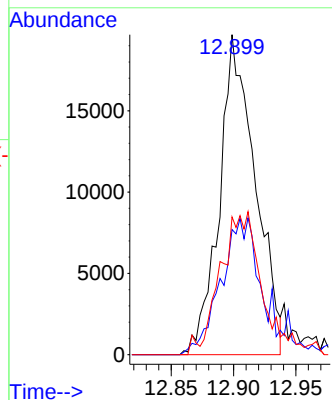
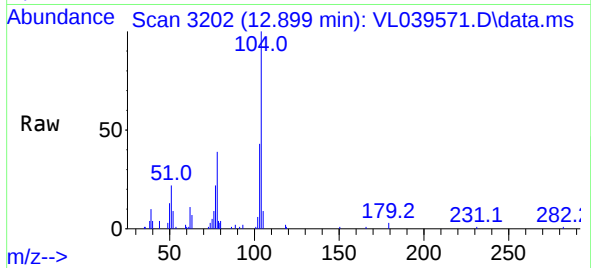




#61  
Styrene  
Concen: 0.319 ppbv  
RT: 12.899 min Scan# 3189  
Delta R.T. -0.003 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

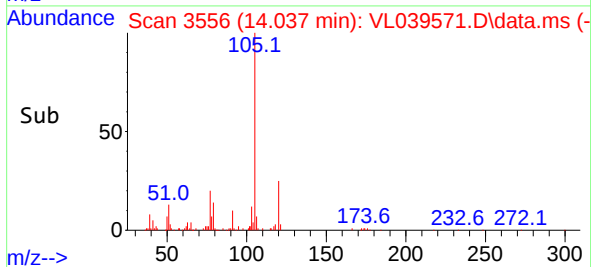
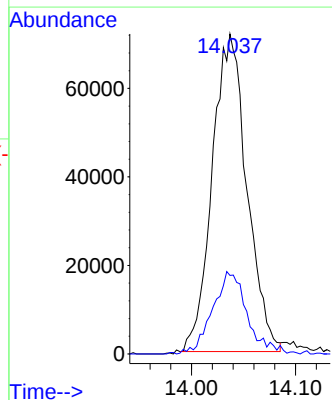
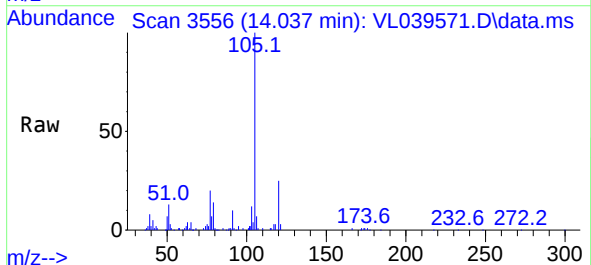
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

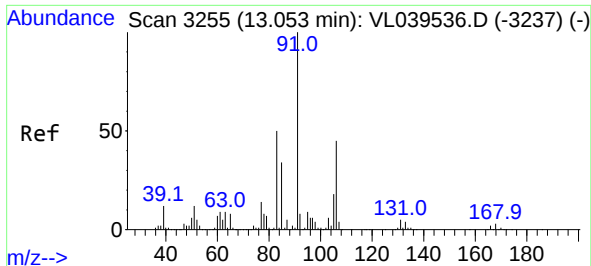
Tgt Ion:104 Resp: 39457  
Ion Ratio Lower Upper  
104 100  
78 52.5 40.0 60.0  
103 52.3 38.2 57.2



#62  
Isopropylbenzene  
Concen: 0.474 ppbv  
RT: 14.037 min Scan# 3556  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion:105 Resp: 166197  
Ion Ratio Lower Upper  
105 100  
120 25.8 20.6 30.8

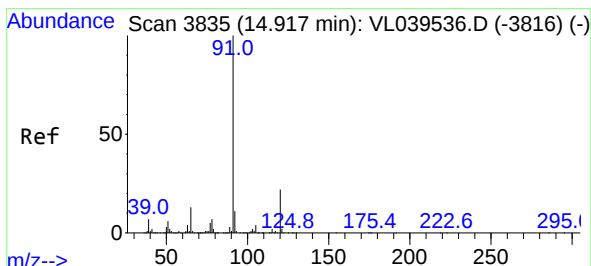
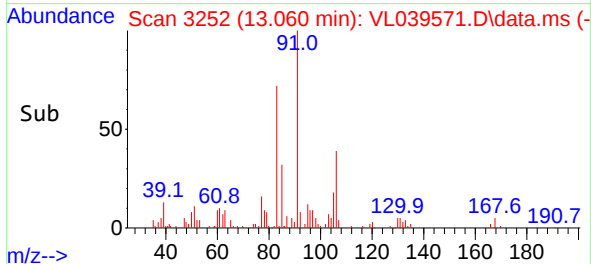
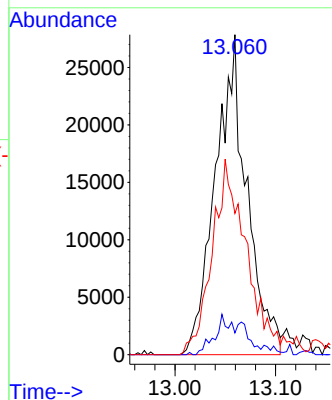
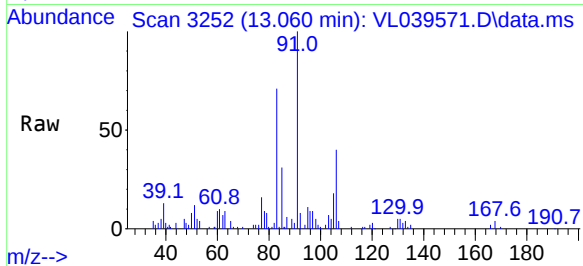




#63  
1,1,2-Tetrachloroethane  
Concen: 0.519 ppbv  
RT: 13.060 min Scan# 31  
Delta R.T. 0.007 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

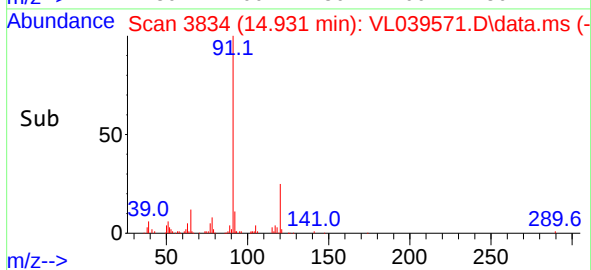
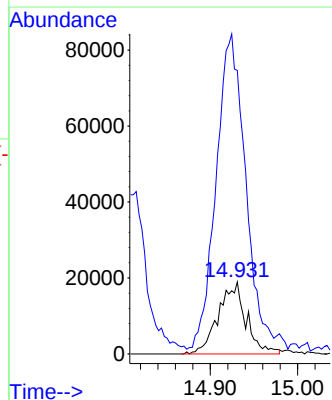
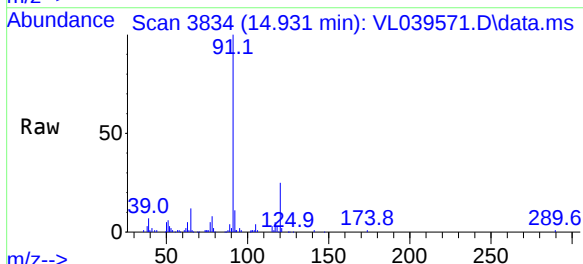
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

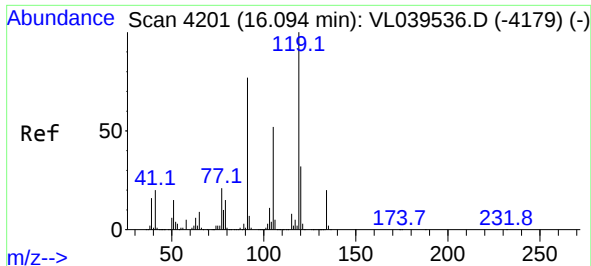
Tgt Ion: 83 Resp: 60503  
Ion Ratio Lower Upper  
83 100  
131 12.2 4.9 14.7  
85 68.1 33.2 99.6



#64  
n-propylbenzene  
Concen: 0.455 ppbv m  
RT: 14.931 min Scan# 3834  
Delta R.T. 0.013 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 120 Resp: 41673  
Ion Ratio Lower Upper  
120 100  
91 0.0 372.6 559.0#

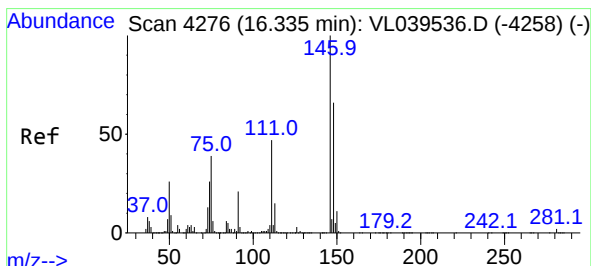
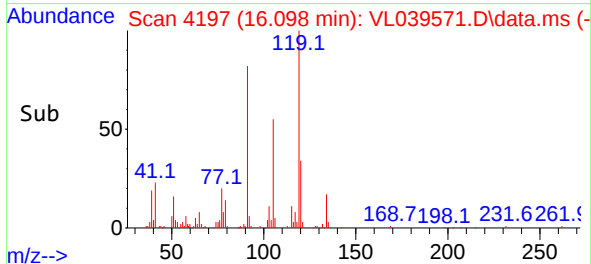
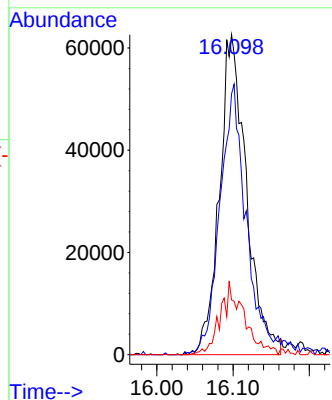
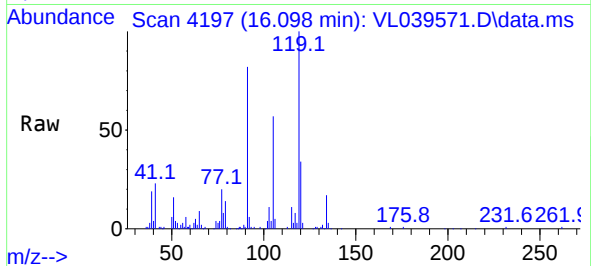




#65  
tert-Butylbenzene  
Concen: 0.491 ppbv m  
RT: 16.098 min Scan# 4179  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

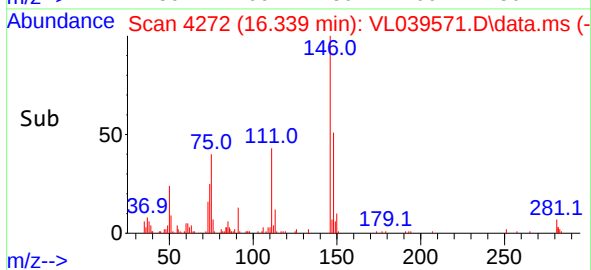
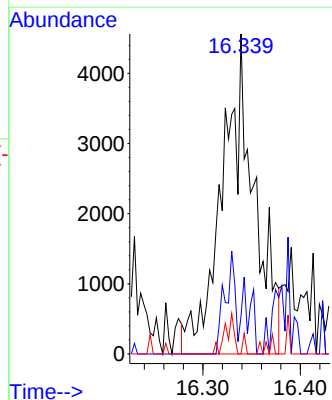
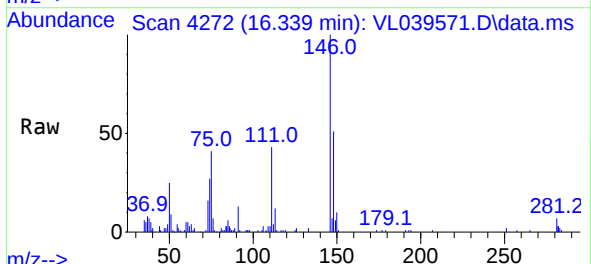
Instrument :  
MSVOA\_1  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

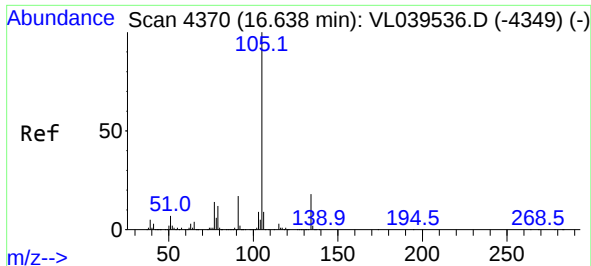
Tgt Ion: 119 Resp: 153666  
Ion Ratio Lower Upper  
119 100  
91 84.7 63.8 95.8  
134 21.0 15.4 23.2



#66  
Benzyl Chloride  
Concen: 0.387 ppbv m  
RT: 16.339 min Scan# 4272  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 91 Resp: 10393  
Ion Ratio Lower Upper  
91 100  
126 16.7 0.0 0.0#  
128 4.2 1.5 2.3#

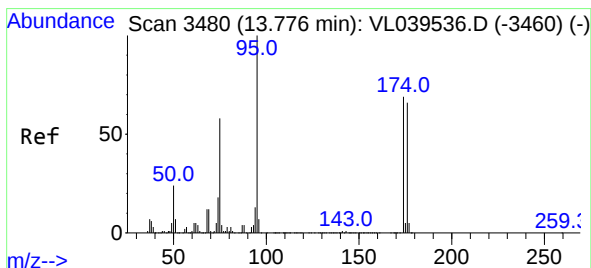
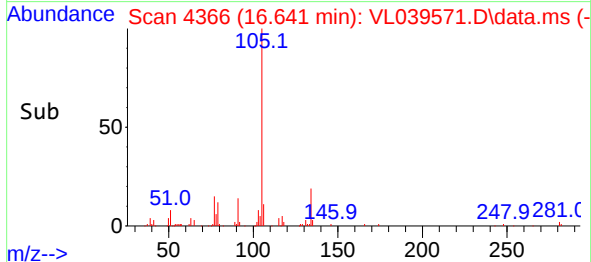
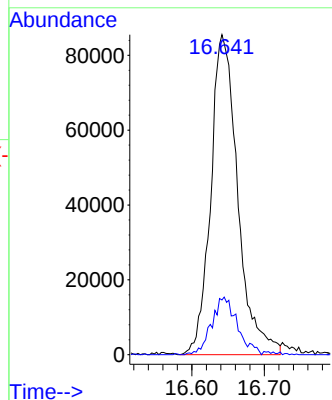
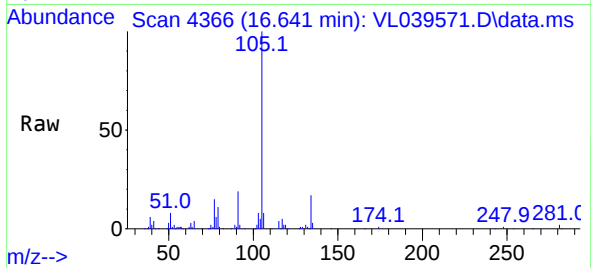




#67  
 sec-Butylbenzene  
 Concen: 0.501 ppbv  
 RT: 16.641 min Scan# 41  
 Delta R.T. 0.004 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

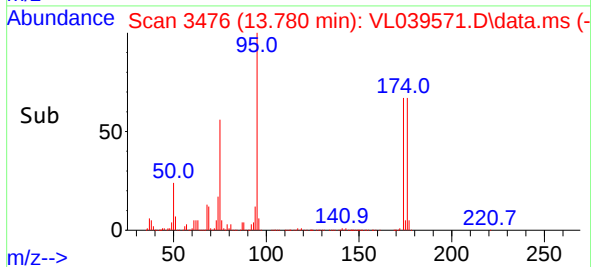
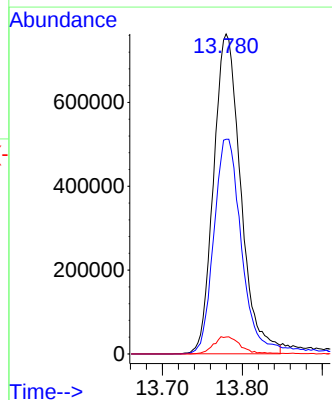
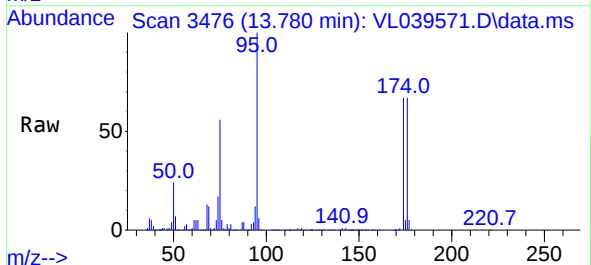
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT3-2022

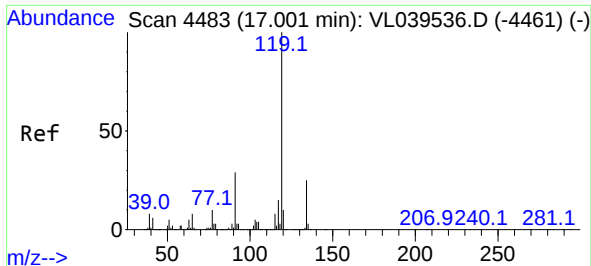
Tgt Ion:105 Resp: 221360  
 Ion Ratio Lower Upper  
 105 100  
 134 17.6 14.3 21.5



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.283 ppbv  
 RT: 13.780 min Scan# 3476  
 Delta R.T. 0.004 min  
 Lab File: VL039571.D  
 Acq: 18 Aug 2022 23:04

Tgt Ion: 95 Resp: 1798032  
 Ion Ratio Lower Upper  
 95 100  
 174 71.0 56.3 84.5  
 175 5.6 4.3 6.5

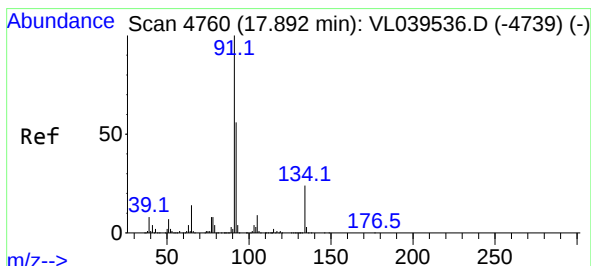
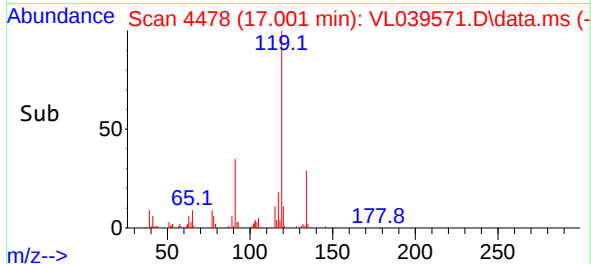
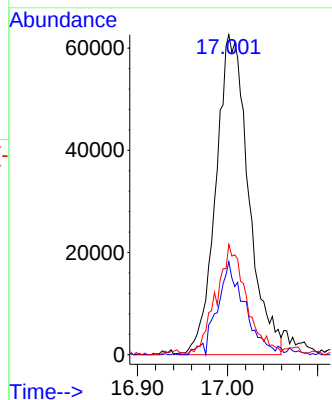
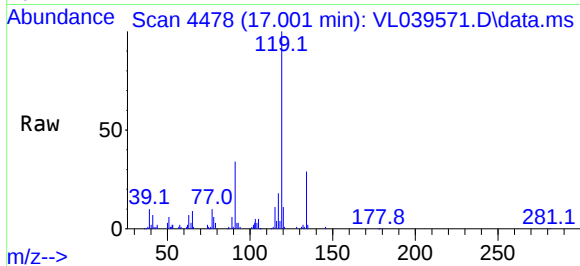




#69  
p-Isopropyltoluene  
Concen: 0.428 ppbv m  
RT: 17.001 min Scan# 4483  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

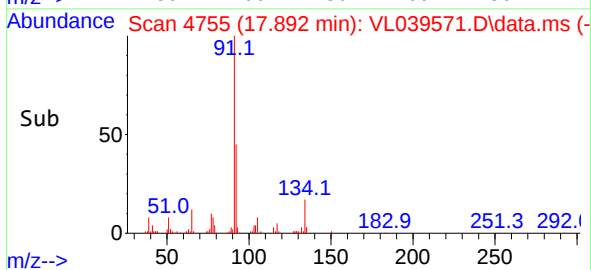
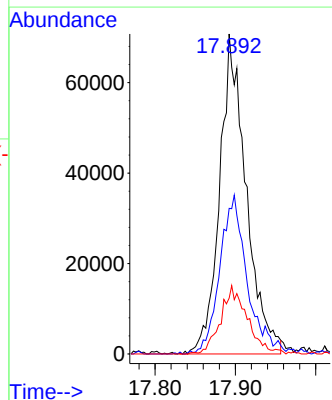
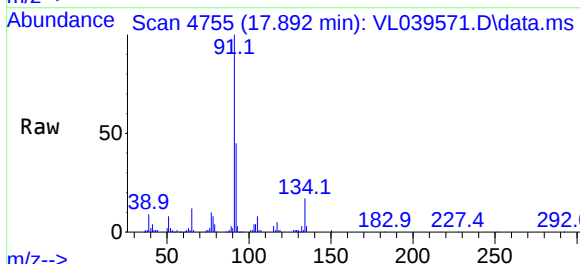
Instrument :  
MSVOA\_1  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

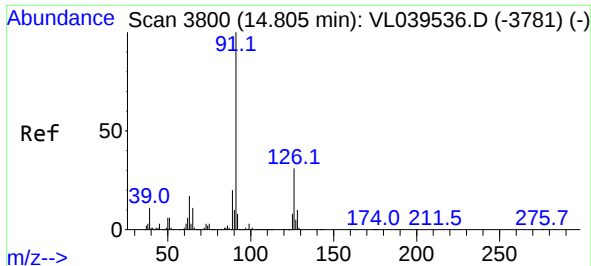
Tgt Ion: 119 Resp: 157446  
Ion Ratio Lower Upper  
119 100  
134 0.0 19.8 29.6#  
91 0.0 22.6 33.8#



#70  
n-Butylbenzene  
Concen: 0.443 ppbv m  
RT: 17.892 min Scan# 4755  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 91 Resp: 161928  
Ion Ratio Lower Upper  
91 100  
92 52.2 43.0 64.6  
134 21.7 18.1 27.1

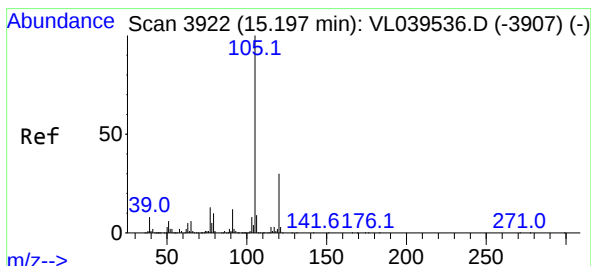
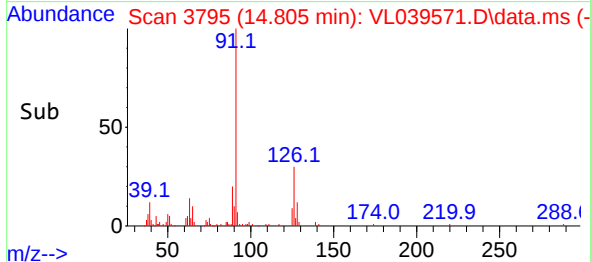
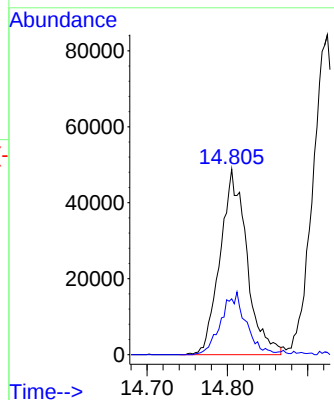
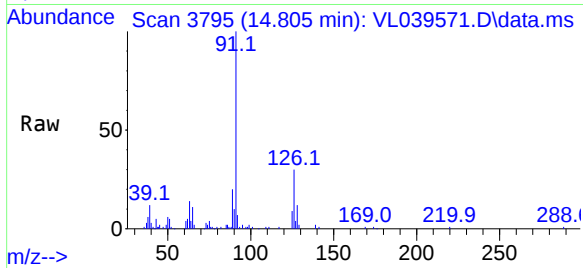




#71  
2-Chlorotoluene  
Concen: 0.445 ppbv m  
RT: 14.805 min Scan# 31  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

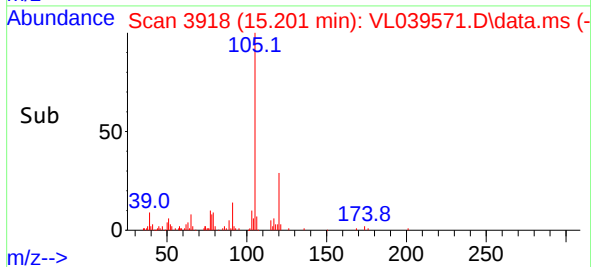
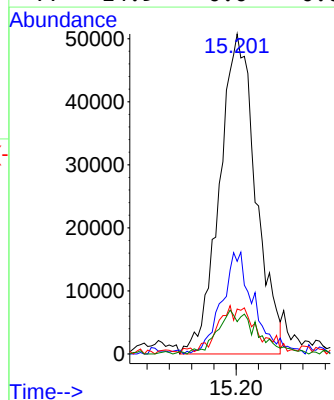
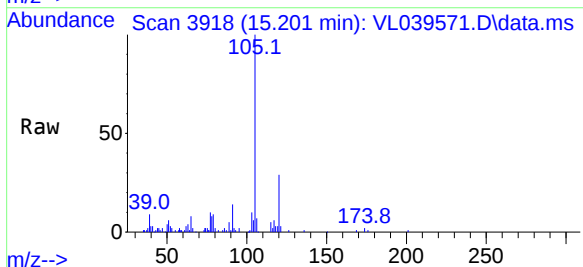
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MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

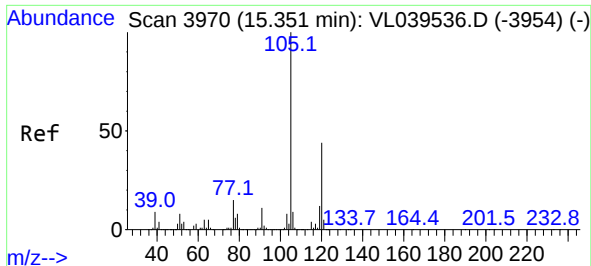
Tgt Ion: 91 Resp: 113033  
Ion Ratio Lower Upper  
91 100  
126 2.3 12.9 51.5#



#72  
4-Ethyltoluene  
Concen: 0.422 ppbv  
RT: 15.201 min Scan# 3918  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion: 105 Resp: 115045  
Ion Ratio Lower Upper  
105 100  
120 28.5 0.0 0.0#  
91 18.9 0.0 0.0#  
77 14.9 0.0 0.0#

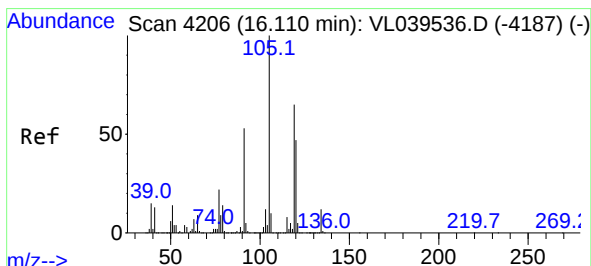
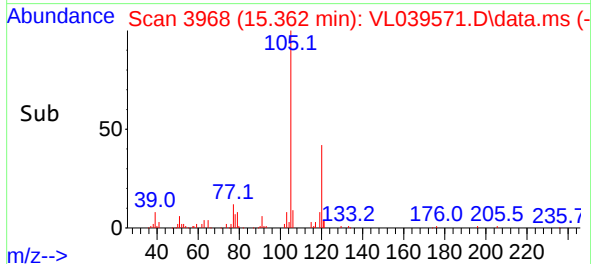
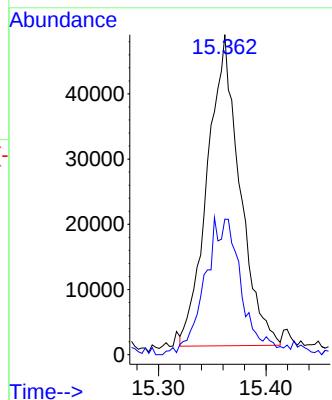
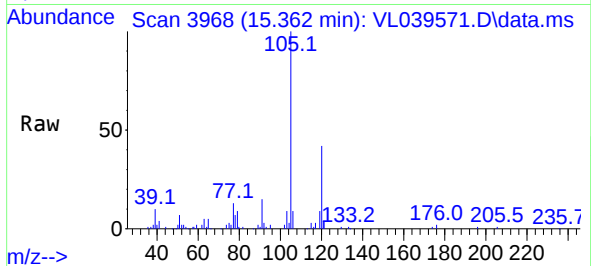




#73  
1,3,5-Trimethylbenzene  
Concen: 0.401 ppbv  
RT: 15.362 min Scan# 3970  
Delta R.T. 0.010 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

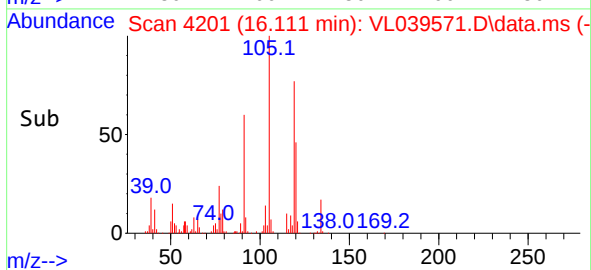
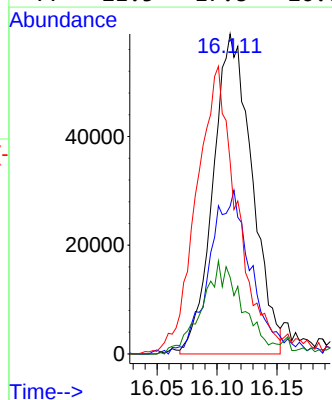
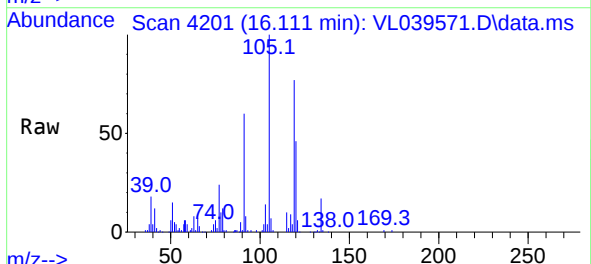
Instrument : MSVOA\_L  
ClientSampleId : LOQ-AIR-02-QT3-2022

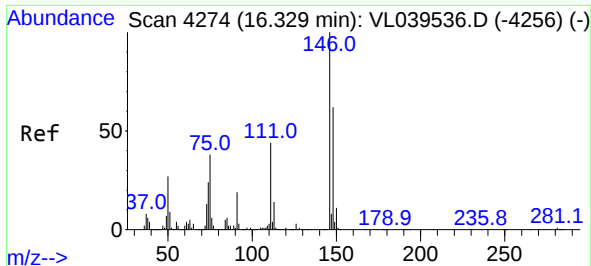
Tgt Ion:105 Resp: 99886  
Ion Ratio Lower Upper  
105 100  
120 45.1 35.4 53.2



#74  
1,2,4-Trimethylbenzene  
Concen: 0.479 ppbv  
RT: 16.111 min Scan# 4201  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion:105 Resp: 132970  
Ion Ratio Lower Upper  
105 100  
120 44.4 37.8 56.8  
91 56.2 43.8 65.6  
77 21.5 17.8 26.6

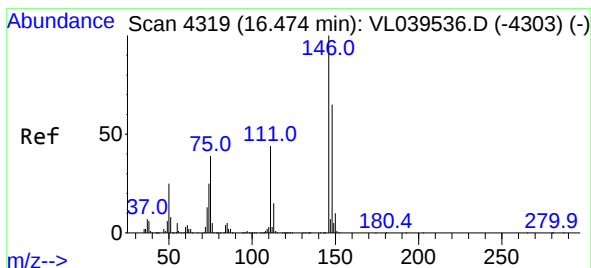
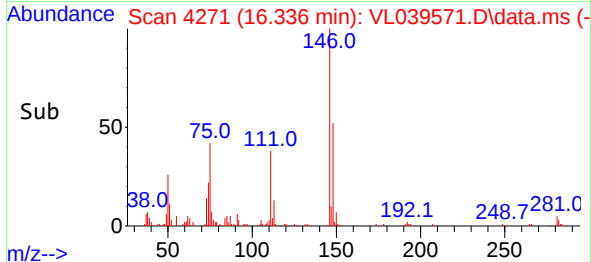
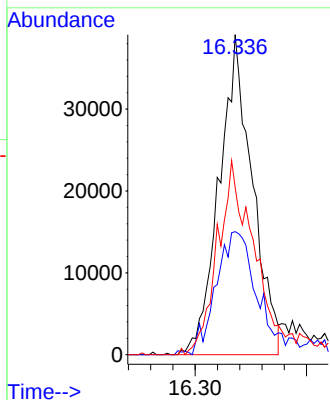
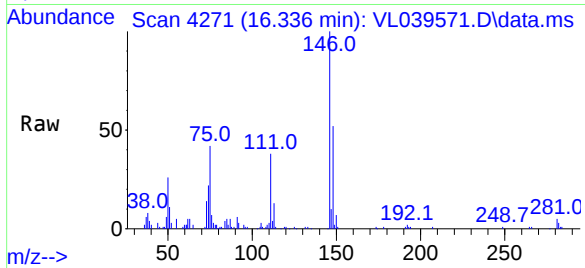




#75  
1,3-Dichlorobenzene  
Concen: 0.480 ppbv  
RT: 16.336 min Scan# 41  
Delta R.T. 0.007 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

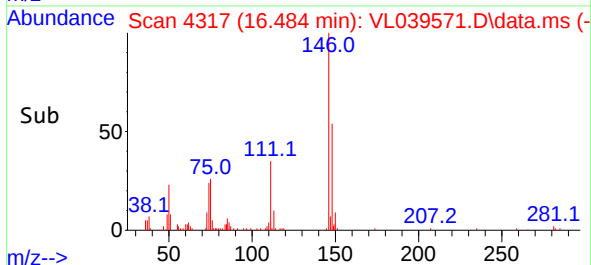
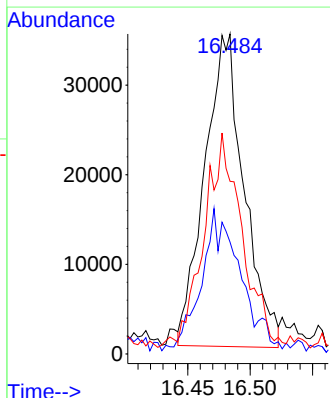
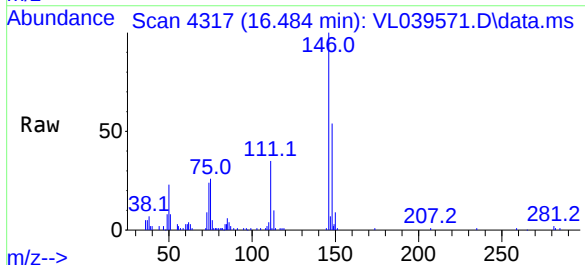
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ClientSampleId :  
LOQ-AIR-02-QT3-2022

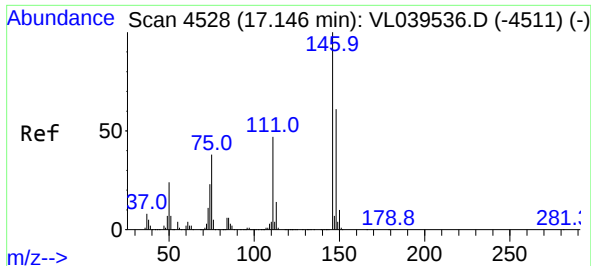
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 80858 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 48.6  | 22.9  | 68.5  |
| 148       | 71.2  | 32.4  | 97.0  |



#76  
1,4-Dichlorobenzene  
Concen: 0.455 ppbv  
RT: 16.484 min Scan# 4317  
Delta R.T. 0.010 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 76807 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 46.4  | 22.3  | 66.8  |
| 148       | 72.3  | 31.5  | 94.5  |

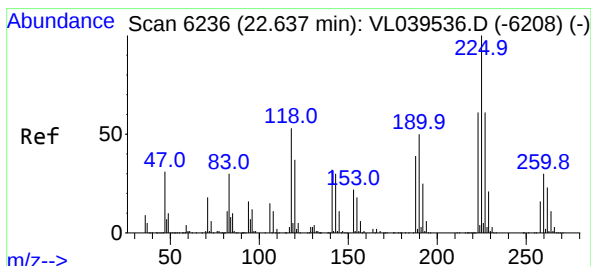
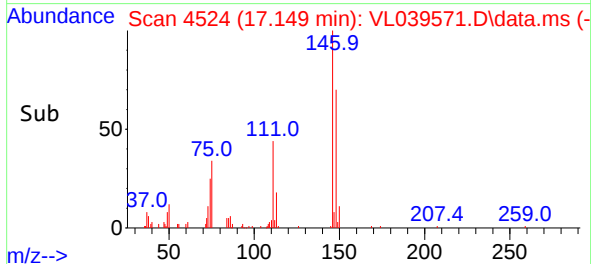
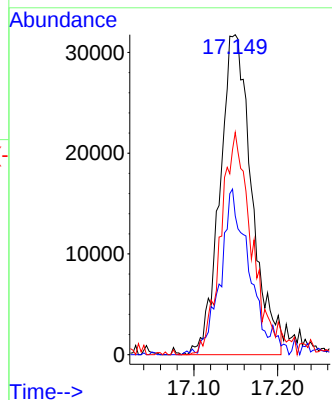
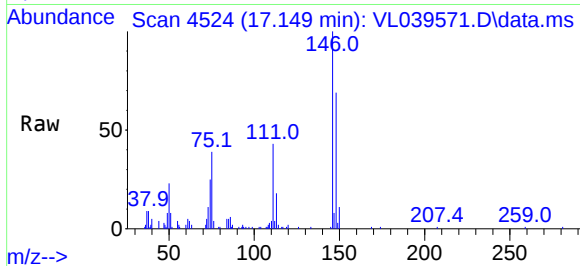




#77  
1,2-Dichlorobenzene  
Concen: 0.510 ppbv m  
RT: 17.149 min Scan# 411  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

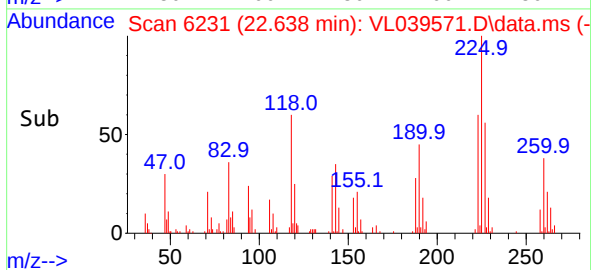
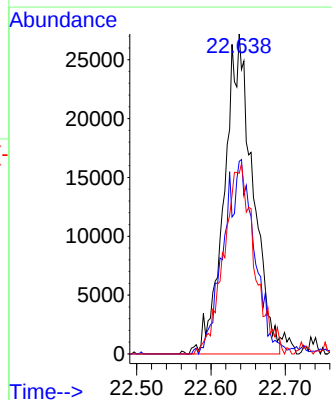
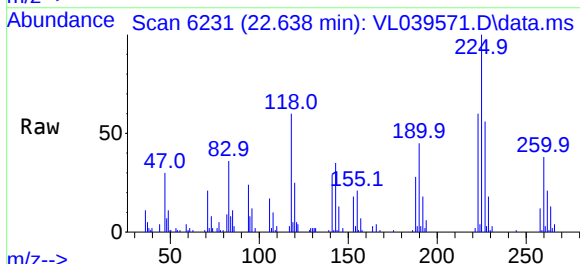
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT3-2022

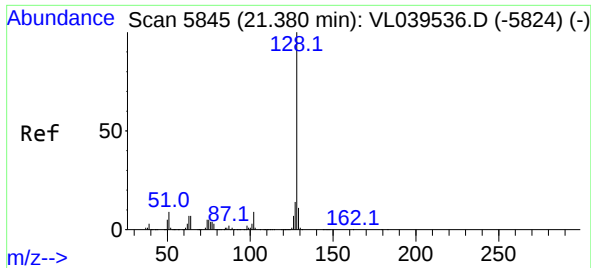
Tgt Ion:146 Resp: 84238  
Ion Ratio Lower Upper  
146 100  
111 48.9 23.9 71.8  
148 71.2 32.6 97.7



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.555 ppbv m  
RT: 22.638 min Scan# 6231  
Delta R.T. 0.001 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

Tgt Ion:225 Resp: 72828  
Ion Ratio Lower Upper  
225 100  
223 65.5 0.0 0.0#  
227 64.2 0.0 0.0#

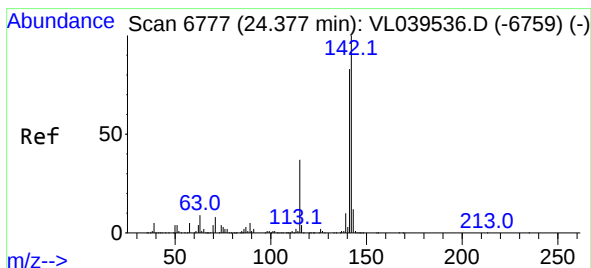
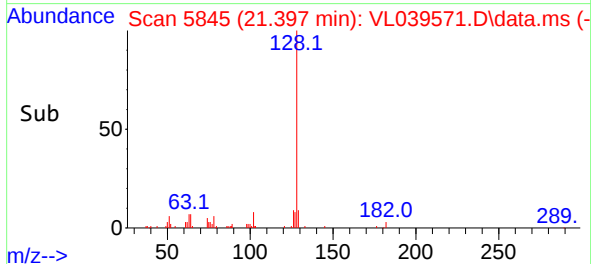
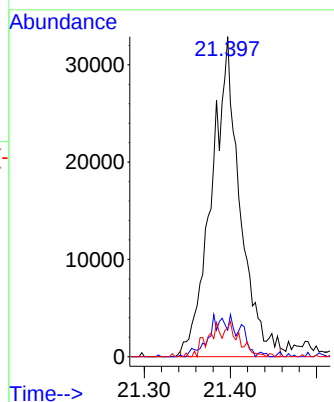
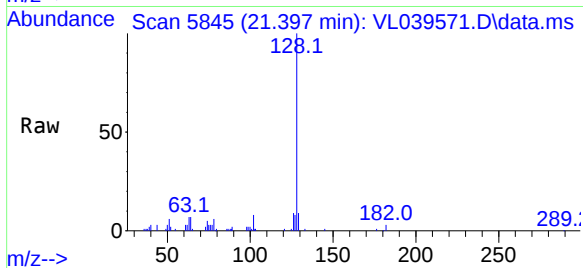




#79  
Naphthalene  
Concen: 0.383 ppbv m  
RT: 21.397 min Scan# 5845  
Delta R.T. 0.017 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

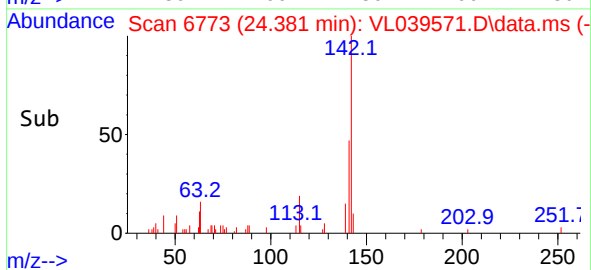
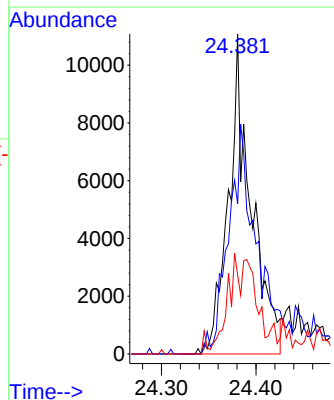
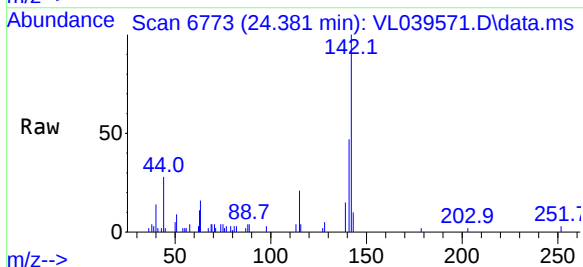
Instrument : MSVOA\_L  
ClientSampleId : LOQ-AIR-02-QT3-2022

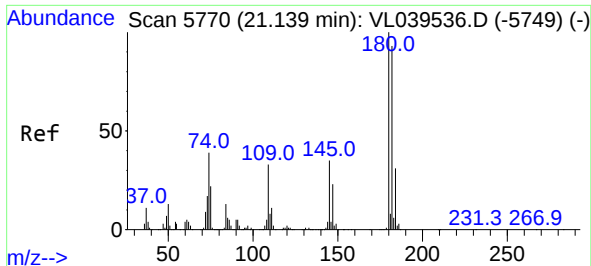
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 75600 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 8.3   | 10.8  | 16.2# |
| 129      | 8.9   | 9.1   | 13.7# |



#80  
Naphthalene,2-methyl-  
Concen: 0.236 ppbv  
RT: 24.381 min Scan# 6773  
Delta R.T. 0.004 min  
Lab File: VL039571.D  
Acq: 18 Aug 2022 23:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 18392 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 107.8 | 0.0   | 0.0#  |
| 115      | 44.4  | 0.0   | 0.0#  |





#81

1,2,4-Trichlorobenzene

Concen: 0.417 ppbv

RT: 21.146 min Scan# 51

Delta R.T. 0.007 min

Lab File: VL039571.D

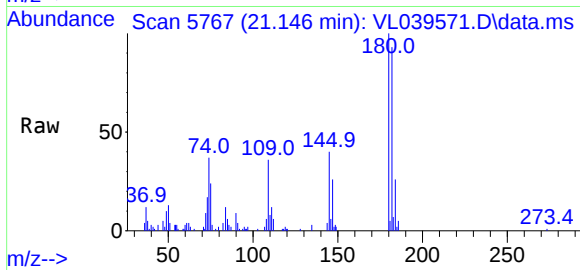
Acq: 18 Aug 2022 23:04

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT3-2022



Tgt Ion:180 Resp: 54911

Ion Ratio Lower Upper

180 100

182 100.2 0.0 0.0#

184 32.4 0.0 0.0#

