

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\  
 Data File : VL036962.D  
 Acq On : 18 May 2021 10:47  
 Operator : SY/AP  
 Sample : M2262-14 0.5  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

Quant Time: May 19 03:11:13 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 12:00:15 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1260223  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3665804  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3512073  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2624865  | 9.95     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.50% |

| Target Compounds               |      |     |        |       | Ovalue    |
|--------------------------------|------|-----|--------|-------|-----------|
| 2) Dichlorodifluoromethane     | 3.03 | 85  | 140745 | 0.658 | ppbv 98   |
| 3) Chlorodifluoromethane       | 2.97 | 51  | 133029 | 0.576 | ppbv 97   |
| 4) Chloromethane               | 3.12 | 50  | 42914  | 0.546 | ppbv 95   |
| 5) Vinyl Chloride              | 3.24 | 62  | 43245  | 0.504 | ppbv 100  |
| 6) Bromomethane                | 3.45 | 94  | 9834   | 0.217 | ppbv 93   |
| 7) Chloroethane                | 3.54 | 64  | 8768   | 0.314 | ppbv 91   |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85  | 111609 | 0.556 | ppbv 93   |
| 9) Propene                     | 2.99 | 41  | 50193  | 0.607 | ppbv 99   |
| 10) Heptane                    | 8.10 | 43  | 109232 | 0.530 | ppbv 100  |
| 11) Trichlorofluoromethane     | 3.93 | 101 | 111285 | 0.562 | ppbv 96   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.46 | 101 | 75868  | 0.538 | ppbv 98   |
| 13) Ethanol                    | 3.62 | 45  | 2923   | 0.265 | ppbv # 1  |
| 14) Bromoethene                | 3.72 | 108 | 29624  | 0.477 | ppbv # 83 |
| 15) Acetone                    | 3.85 | 43  | 31436  | 0.244 | ppbv # 45 |
| 16) 1,3-Butadiene              | 3.31 | 39  | 41319  | 0.515 | ppbv 97   |
| 18) 1,1-Dichloroethene         | 4.27 | 96  | 35402  | 0.543 | ppbv 90   |
| 20) Methylene Chloride         | 4.32 | 84  | 41766  | 0.604 | ppbv # 91 |
| 21) Allyl Chloride             | 4.39 | 41  | 47153  | 0.484 | ppbv 92   |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96  | 32078  | 0.514 | ppbv # 82 |
| 23) Vinyl Acetate              | 5.06 | 43  | 86074  | 0.420 | ppbv # 96 |
| 24) 1,1-Dichloroethane         | 4.99 | 63  | 74329  | 0.504 | ppbv # 98 |
| 25) Ethyl Acetate              | 5.67 | 43  | 159214 | 0.513 | ppbv # 96 |
| 26) Hexane                     | 5.66 | 57  | 89192  | 0.563 | ppbv 95   |
| 27) Carbon Disulfide           | 4.53 | 76  | 74075  | 0.464 | ppbv # 90 |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73  | 98825  | 0.520 | ppbv 98   |
| 29) Chloroform                 | 5.73 | 83  | 125957 | 0.563 | ppbv 99   |
| 30) Cyclohexane                | 7.10 | 84  | 72744  | 0.540 | ppbv 91   |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61  | 37223  | 0.262 | ppbv 94   |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97  | 48270  | 0.201 | ppbv # 1  |
| 34) 2-Butanone                 | 5.24 | 43  | 29778  | 0.223 | ppbv # 1  |
| 35) Carbon Tetrachloride       | 6.99 | 117 | 119900 | 0.492 | ppbv 98   |
| 36) Benzene                    | 6.86 | 78  | 175289 | 0.555 | ppbv 96   |
| 37) 1,2-Dichloroethane         | 6.29 | 62  | 80178  | 0.512 | ppbv 97   |
| 38) Trichloroethene            | 7.81 | 130 | 70450  | 0.522 | ppbv 89   |
| 39) 1,2-Dichloropropane        | 7.59 | 63  | 40818  | 0.336 | ppbv 94   |
| 41) Tetrahydrofuran            | 6.06 | 42  | 9683   | 0.127 | ppbv # 1  |
| 42) Bromodichloromethane       | 7.76 | 83  | 114813 | 0.485 | ppbv # 95 |
| 43) Methyl Methacrylate        | 8.00 | 69  | 49092  | 0.451 | ppbv 90   |
| 44) 2,2,4-Trimethylpentane     | 7.84 | 57  | 303355 | 0.560 | ppbv 99   |
| 45) t-1,3-Dichloropropene      | 9.25 | 75  | 29382  | 0.353 | ppbv 96   |
| 46) cis-1,3-Dichloropropene    | 8.68 | 75  | 48054  | 0.430 | ppbv 97   |

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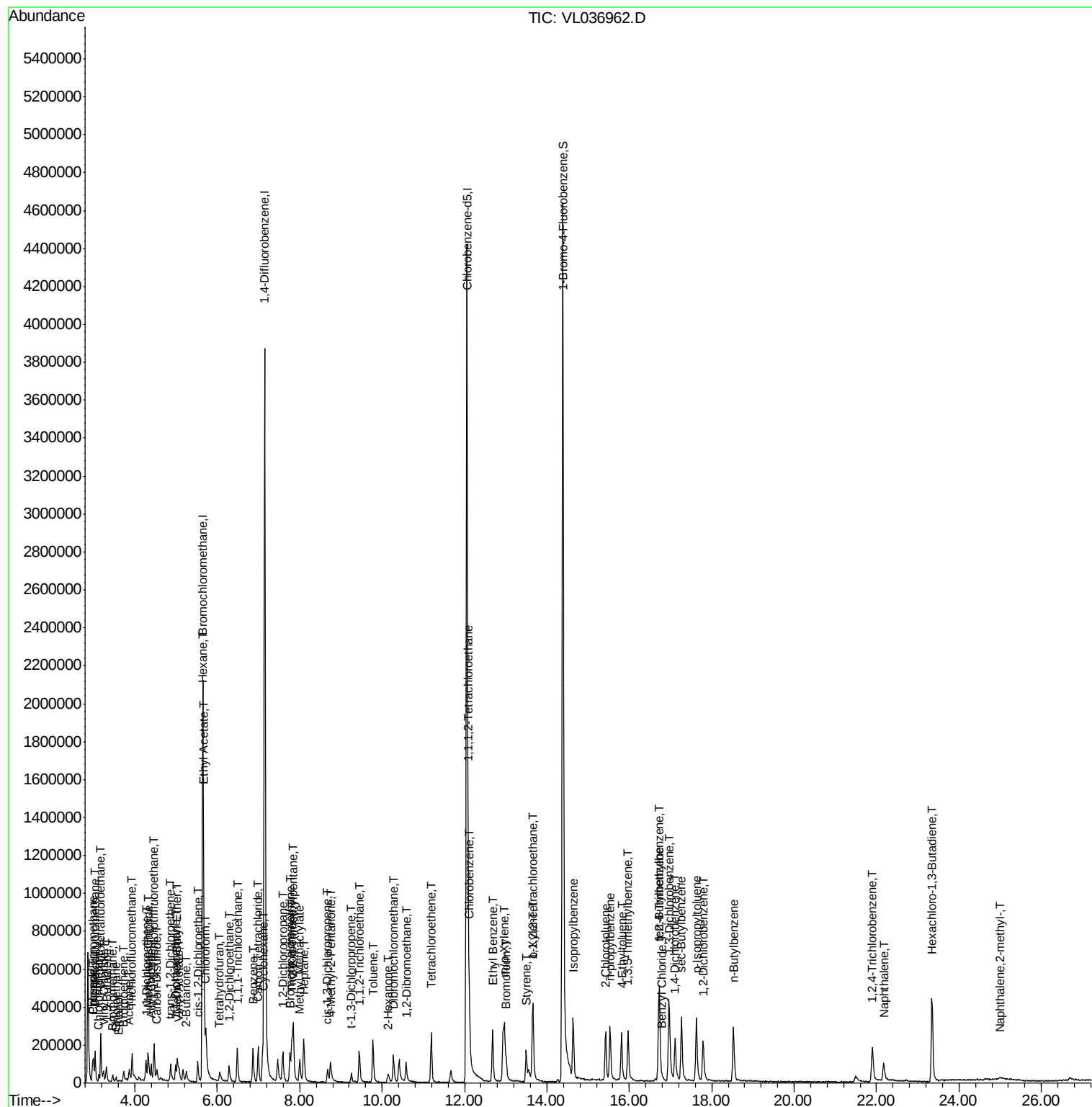
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 47) 1,1,2-Trichloroethane     | 9.45  | 97   | 68258    | 0.536 | ppbv   | 96       |
| 48) Dibromochloromethane      | 10.28 | 129  | 95199    | 0.462 | ppbv   | 96       |
| 49) Bromoform                 | 13.01 | 173  | 67668    | 0.397 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 101080   | 0.459 | ppbv   | 88       |
| 51) 2-Hexanone                | 10.15 | 43   | 30735    | 0.264 | ppbv # | 39       |
| 52) Tetrachloroethene         | 11.19 | 164  | 32235    | 0.257 | ppbv   | 95       |
| 53) Toluene                   | 9.78  | 91   | 198828   | 0.529 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.58 | 107  | 48559    | 0.268 | ppbv   | 88       |
| 56) 1,1,1,2-Tetrachloroethane | 12.09 | 131  | 67707    | 0.458 | ppbv # | 23       |
| 57) Chlorobenzene             | 12.12 | 112  | 150986   | 0.554 | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.68 | 91   | 255480   | 0.515 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.97 | 91   | 233486   | 0.570 | ppbv # | 32       |
| 60) o-Xylene                  | 13.66 | 91   | 221896   | 0.568 | ppbv   | 100      |
| 61) Styrene                   | 13.50 | 104  | 57662    | 0.262 | ppbv # | 35       |
| 62) Isopropylbenzene          | 14.64 | 105  | 303709   | 0.541 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.64 | 83   | 70117    | 0.240 | ppbv # | 20       |
| 64) n-propylbenzene           | 15.53 | 120  | 46658    | 0.322 | ppbv # | 1        |
| 65) tert-Butylbenzene         | 16.72 | 119  | 290523   | 0.573 | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.80 | 91   | 2117     | 0.075 | ppbv # | 1        |
| 67) sec-Butylbenzene          | 17.26 | 105  | 377671   | 0.546 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.63 | 119  | 326605   | 0.549 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.52 | 91   | 123921   | 0.219 | ppbv # | 32       |
| 71) 2-Chlorotoluene           | 15.42 | 91   | 219167   | 0.540 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.81 | 105  | 231409   | 0.499 | ppbv   | 95       |
| 73) 1,3,5-Trimethylbenzene    | 15.97 | 105  | 224414   | 0.515 | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene    | 16.73 | 105  | 248823   | 0.553 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 16.97 | 146  | 136818   | 0.498 | ppbv   | 91       |
| 76) 1,4-Dichlorobenzene       | 17.11 | 146  | 71093    | 0.256 | ppbv # | 17       |
| 77) 1,2-Dichlorobenzene       | 17.79 | 146  | 140653   | 0.510 | ppbv   | 95       |
| 78) Hexachloro-1,3-Butadiene  | 23.35 | 225  | 70700    | 0.319 | ppbv # | 18       |
| 79) Naphthalene               | 22.18 | 128  | 141152   | 0.399 | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 25.00 | 142  | 9591     | 0.125 | ppbv # | 73       |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 86906    | 0.403 | ppbv   | 90       |
| -----                         |       |      |          |       |        |          |

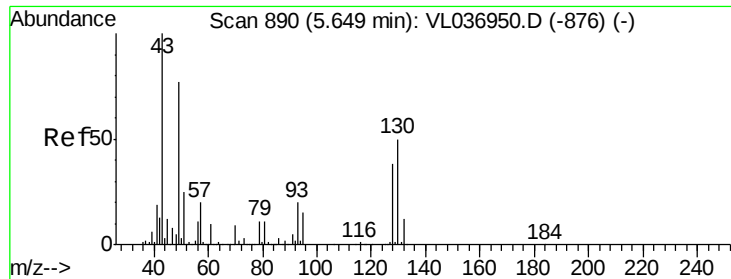
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

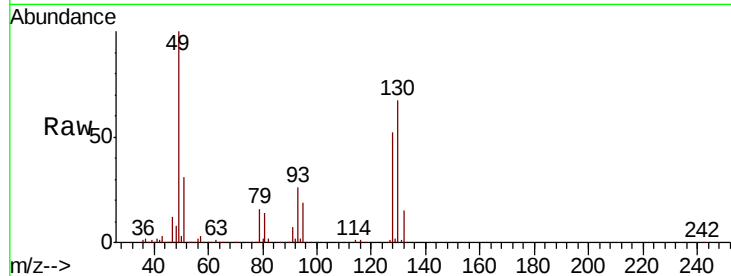
Tot Ion: 49 Resp: 1260223

Ion Ratio Lower Upper

49 100

128 55.5 26.9 80.7

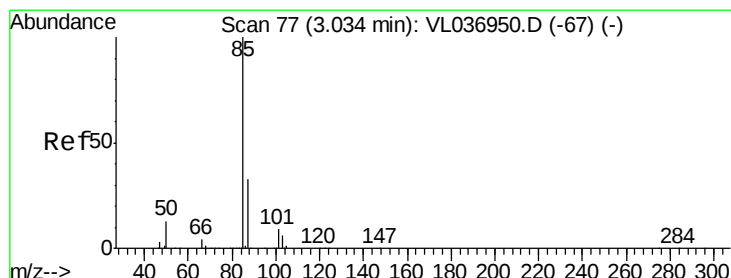
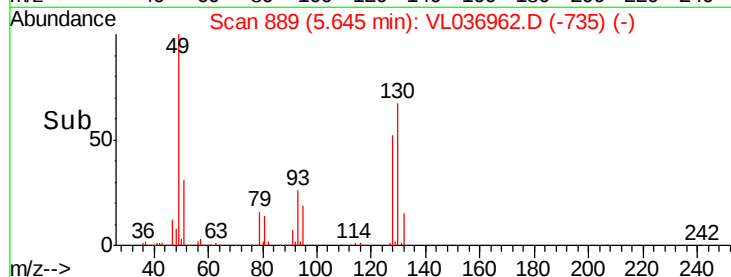
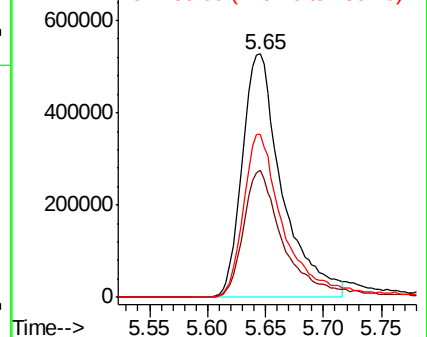
130 70.6 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.658 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL036962.D

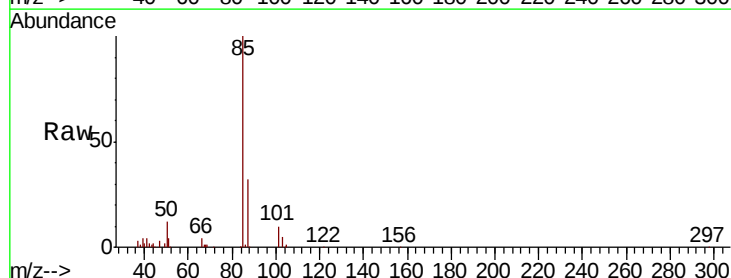
Acq: 18 May 2021 10:47

Tgt Ion: 85 Resp: 140745

Ion Ratio Lower Upper

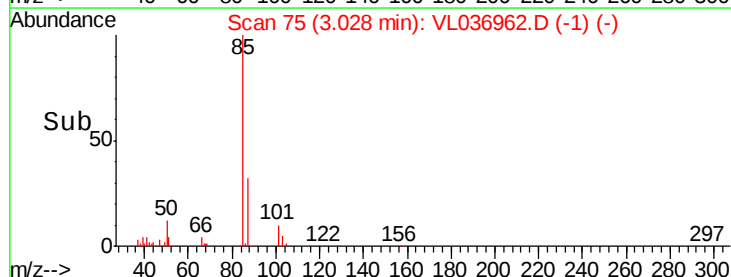
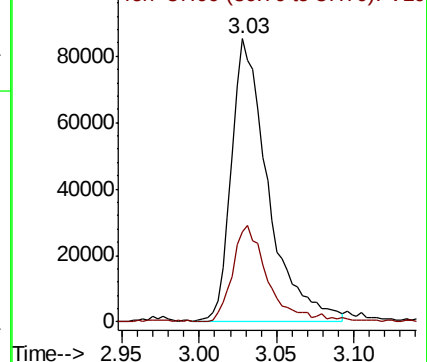
85 100

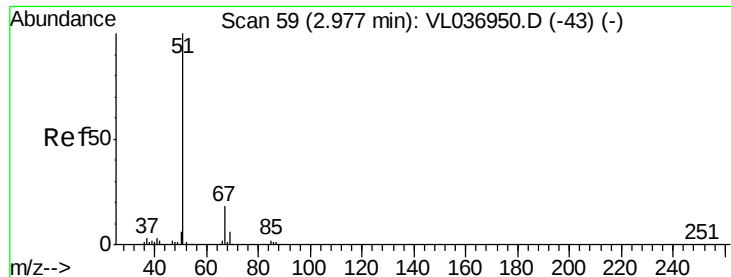
87 31.8 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.576 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

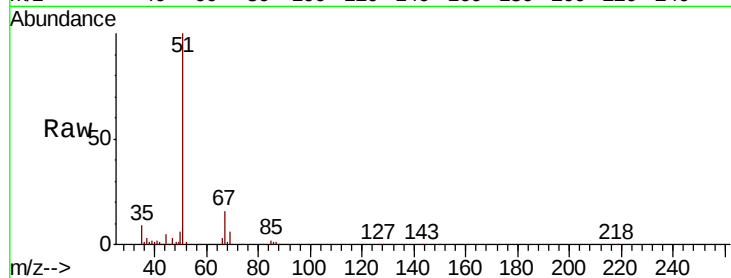
LOQ-AIR-02-QT2-2021

Tot Ion: 51 Resp: 133029

Ion Ratio Lower Upper

51 100

67 17.0 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

80000

60000

40000

20000

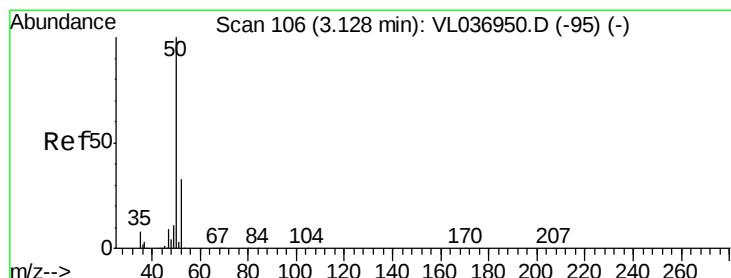
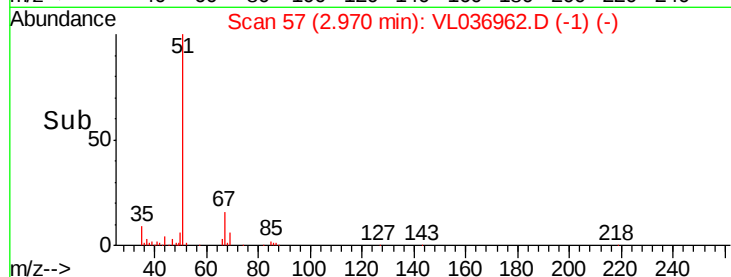
0

Time-->

2.90

3.00

3.10



#4

Chloromethane

Concen: 0.546 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL036962.D

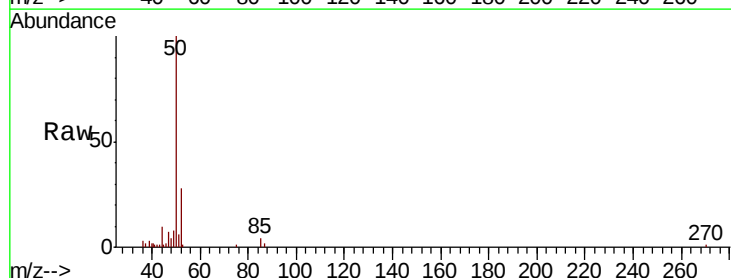
Acq: 18 May 2021 10:47

Tgt Ion: 50 Resp: 42914

Ion Ratio Lower Upper

50 100

52 29.6 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

30000

25000

20000

15000

10000

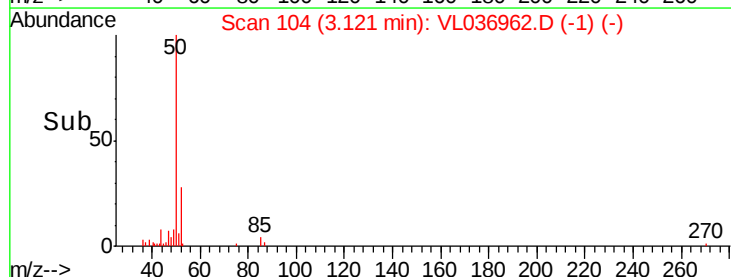
5000

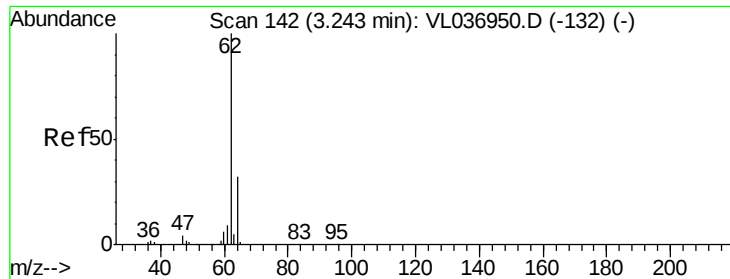
0

Time-->

3.10

3.15





#5

Vinyl Chloride

Concen: 0.504 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

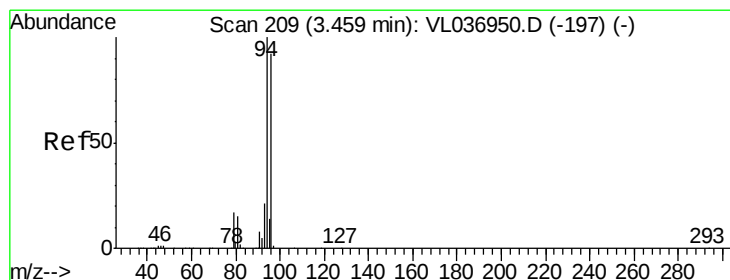
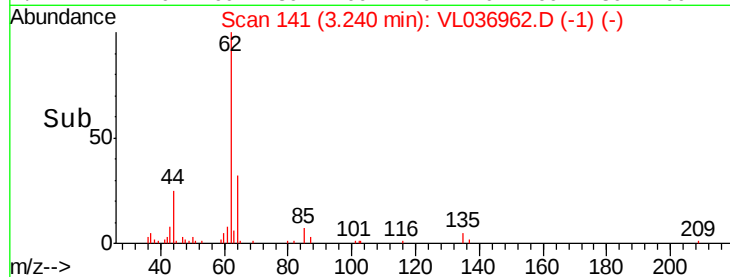
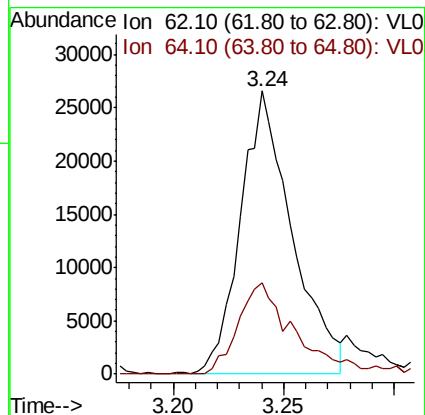
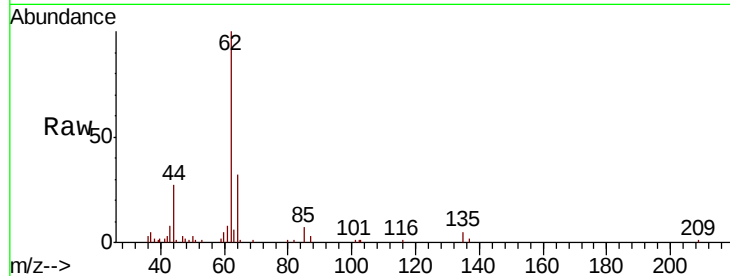
LOQ-AIR-02-QT2-2021

Tot Ion: 62 Resp: 43245

Ion Ratio Lower Upper

62 100

64 32.2 25.9 38.9



#6

Bromomethane

Concen: 0.217 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.01 min

Lab File: VL036962.D

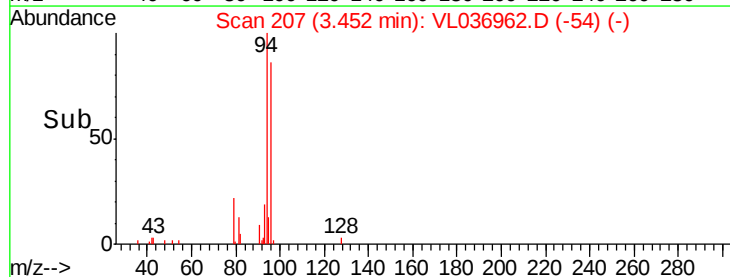
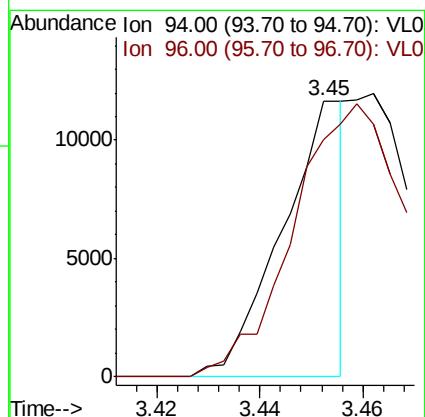
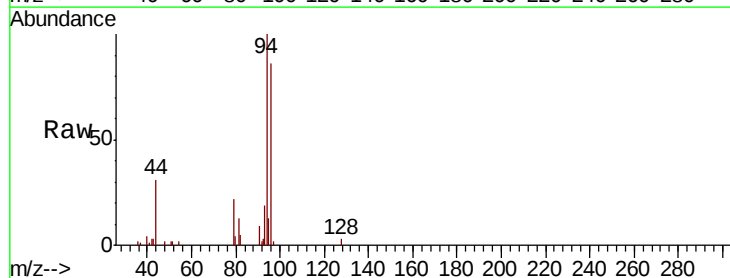
Acq: 18 May 2021 10:47

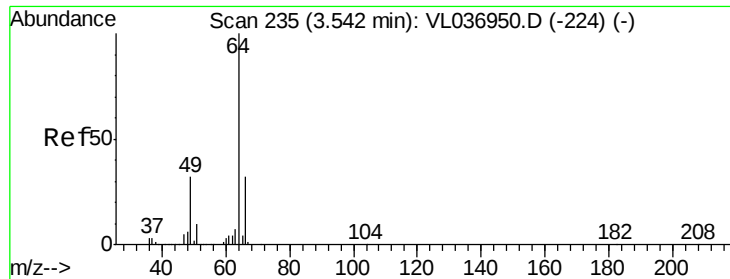
Tgt Ion: 94 Resp: 9834

Ion Ratio Lower Upper

94 100

96 86.1 74.0 111.0





#7

Chloroethane

Concen: 0.314 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

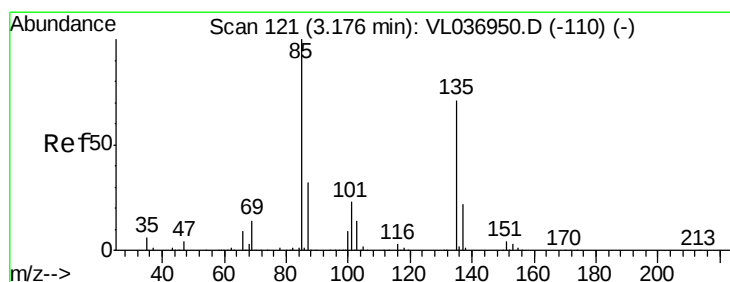
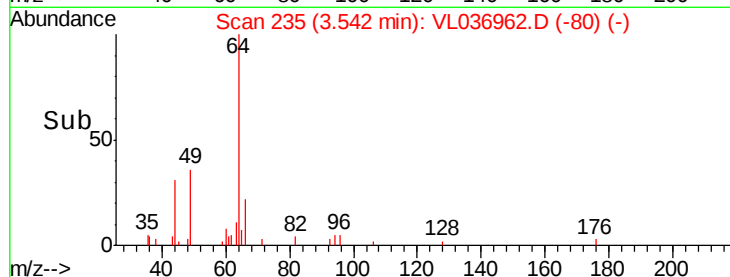
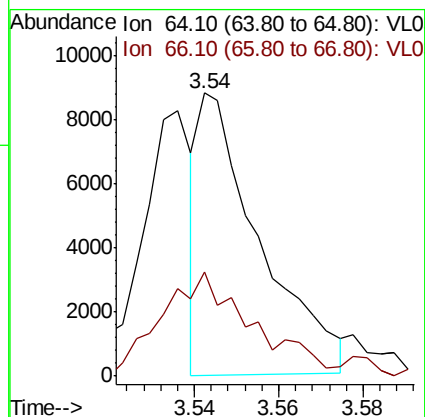
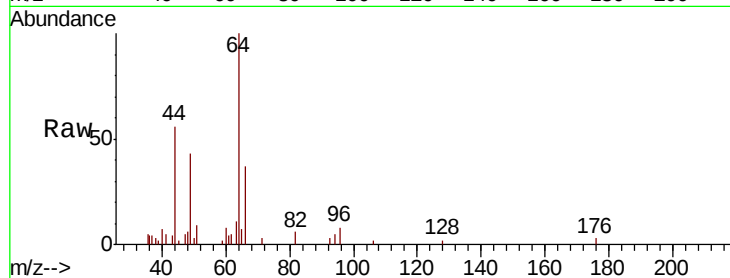
LOQ-AIR-02-QT2-2021

Tot Ion: 64 Resp: 8768

Ion Ratio Lower Upper

64 100

66 36.8 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 0.556 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL036962.D

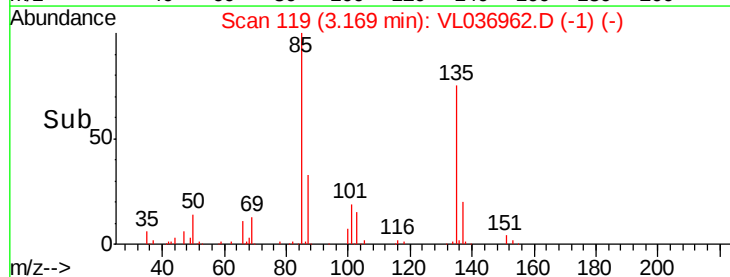
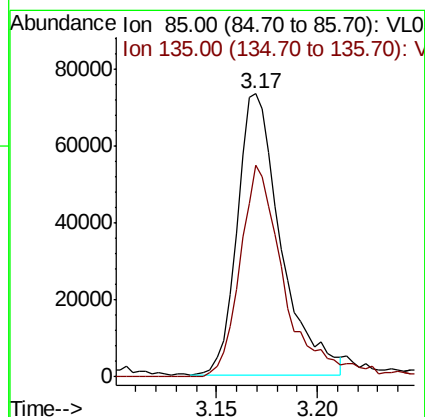
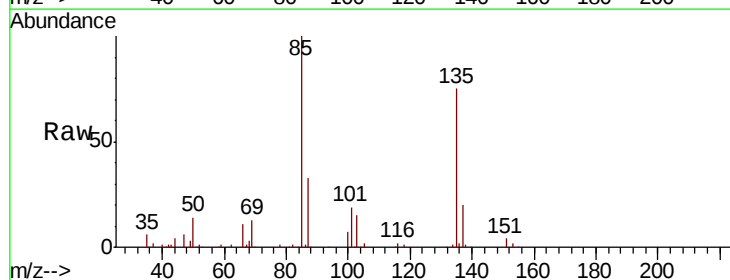
Acq: 18 May 2021 10:47

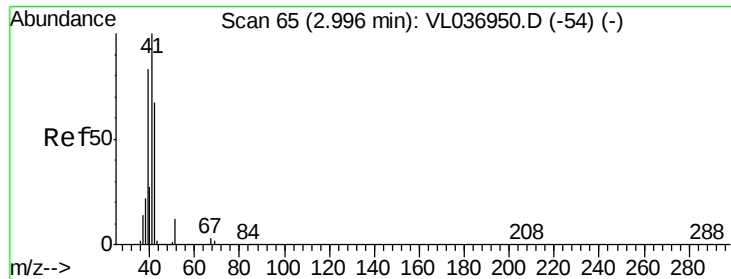
Tgt Ion: 85 Resp: 111609

Ion Ratio Lower Upper

85 100

135 77.9 57.7 86.5





#9

Propene

Concen: 0.607 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

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MSVOA\_L

ClientSampleId :

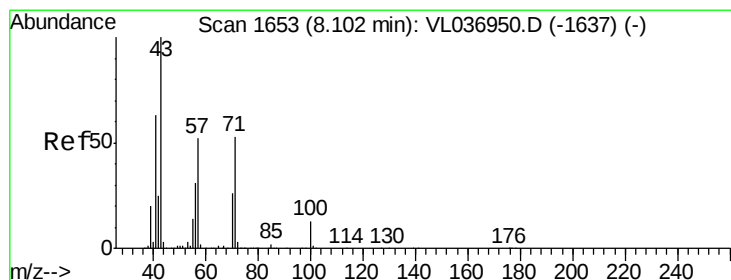
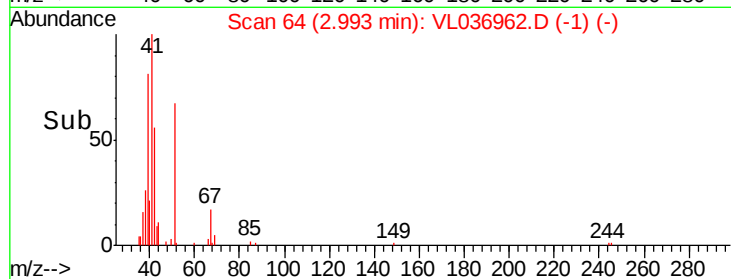
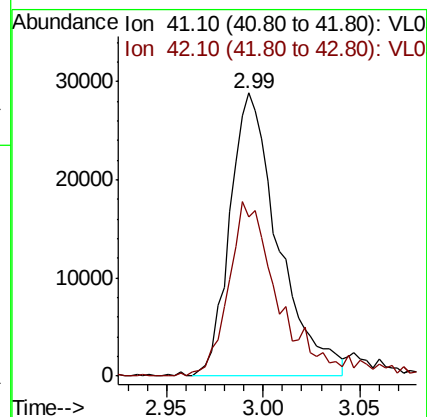
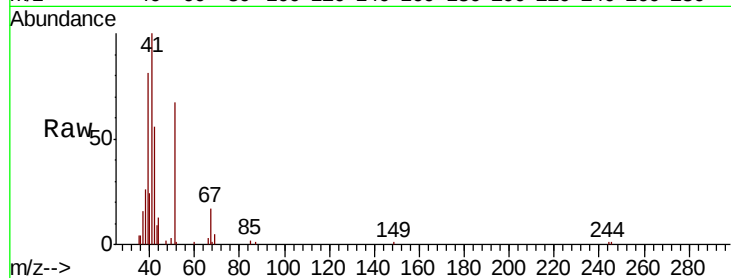
LOQ-AIR-02-QT2-2021

Tot Ion: 41 Resp: 50193

Ion Ratio Lower Upper

41 100

42 66.3 53.9 80.9



#10

Heptane

Concen: 0.530 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL036962.D

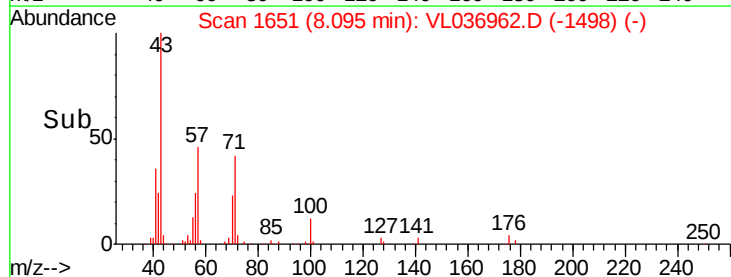
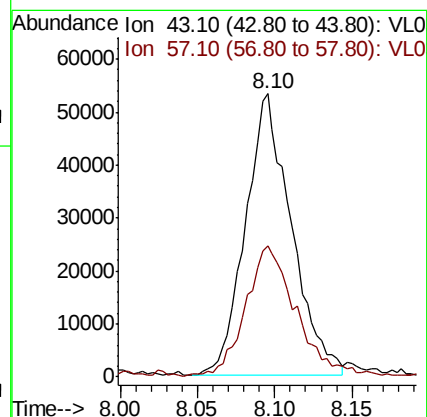
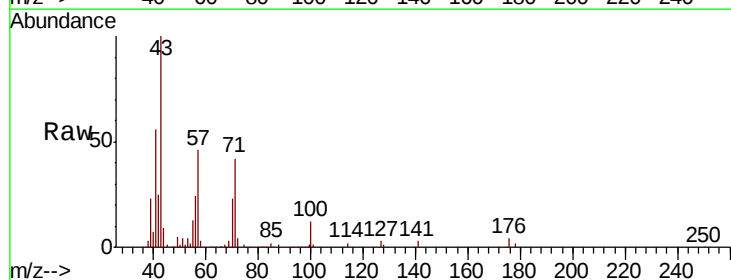
Acq: 18 May 2021 10:47

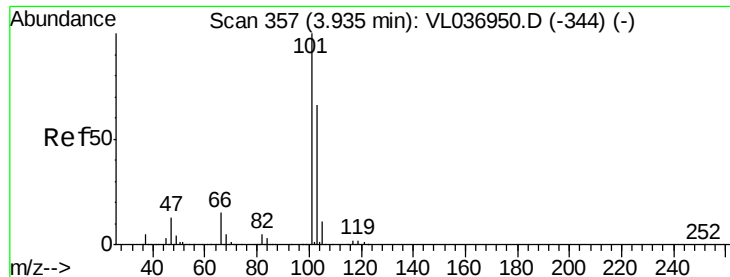
Tgt Ion: 43 Resp: 109232

Ion Ratio Lower Upper

43 100

57 51.2 41.0 61.6

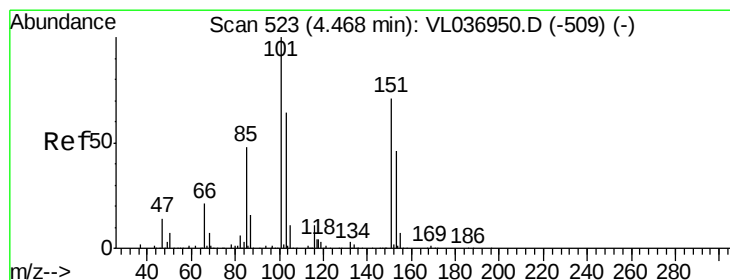
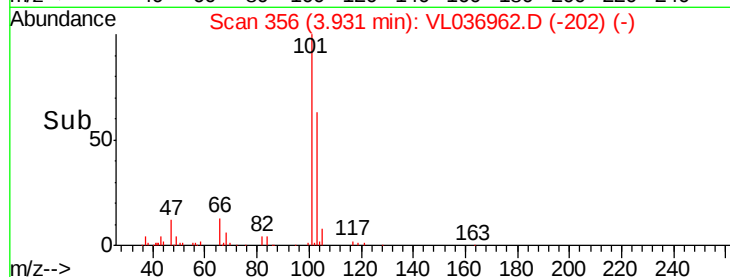
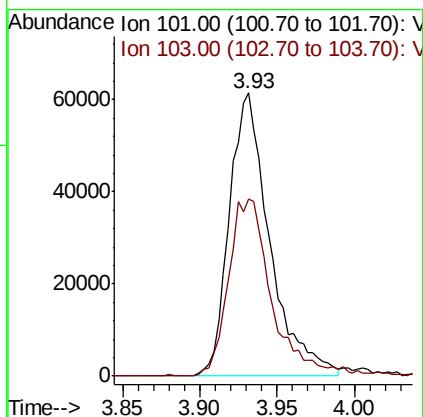
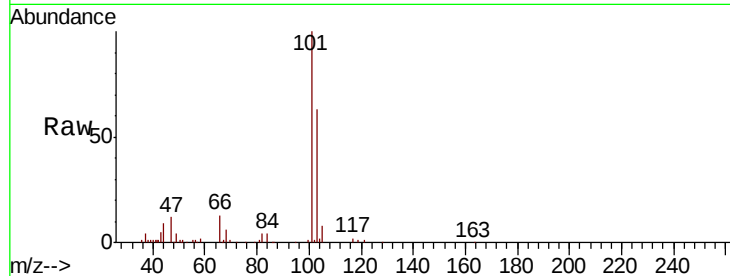




#11  
 Trichlorofluoromethane  
 Concen: 0.562 ppbv  
 RT: 3.93 min Scan# 356  
 Delta R.T. -0.00 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

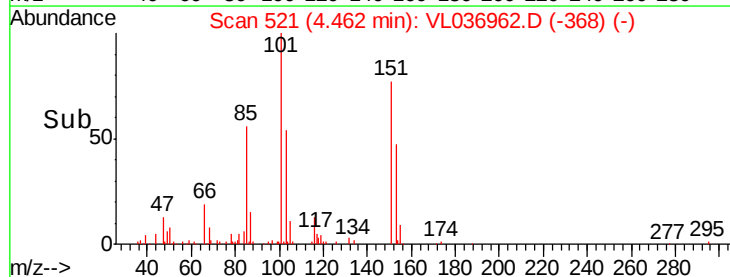
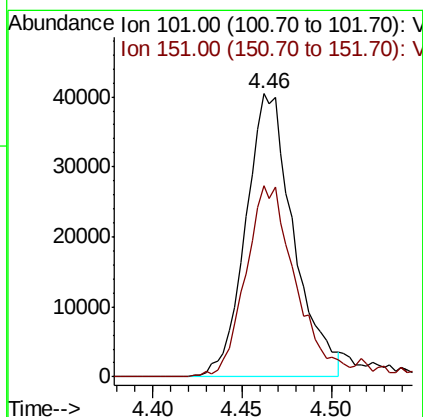
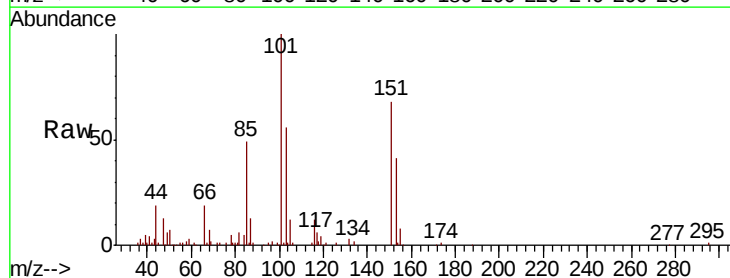
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

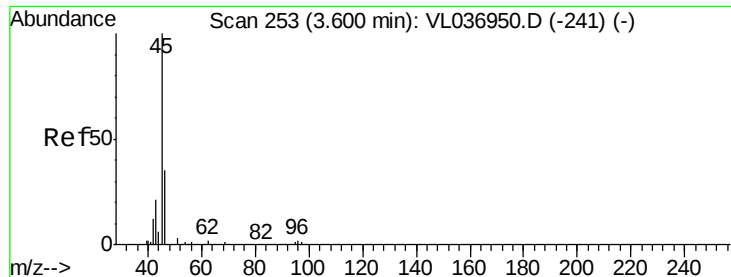
Tot Ion:101 Resp: 111285  
 Ion Ratio Lower Upper  
 101 100  
 103 62.7 52.6 79.0



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.538 ppbv  
 RT: 4.46 min Scan# 521  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

Tgt Ion:101 Resp: 75868  
 Ion Ratio Lower Upper  
 101 100  
 151 74.1 57.7 86.5





#13

Ethanol

Concen: 0.265 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.02 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

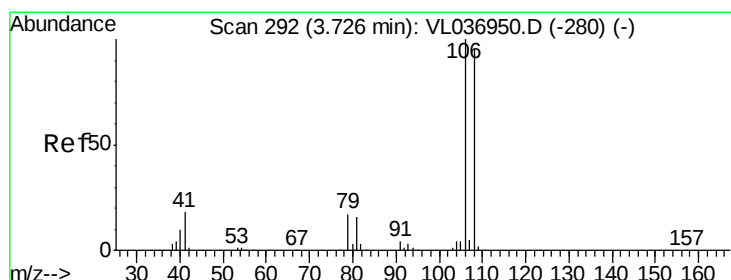
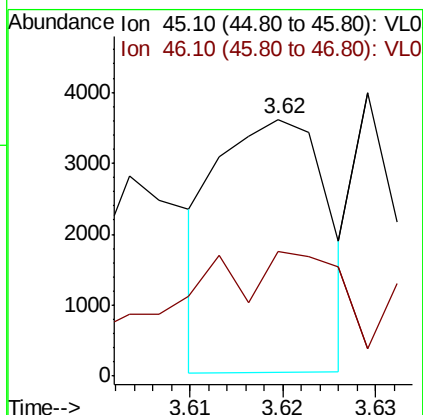
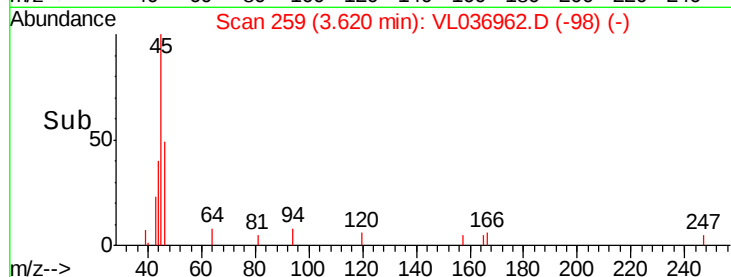
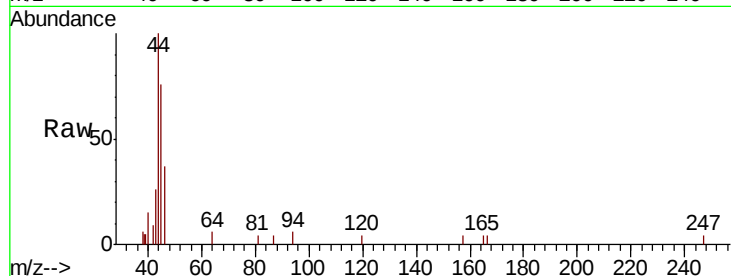
LOQ-AIR-02-QT2-2021

Tot Ion: 45 Resp: 2923

Ion Ratio Lower Upper

45 100

46 172.4 16.3 65.3#



#14

Bromoethene

Concen: 0.477 ppbv

RT: 3.72 min Scan# 290

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

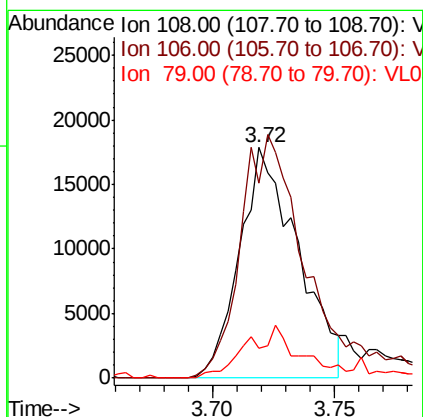
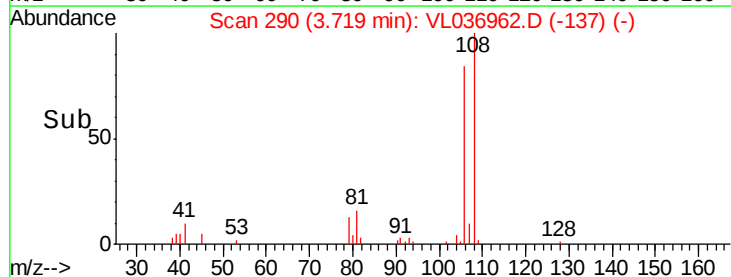
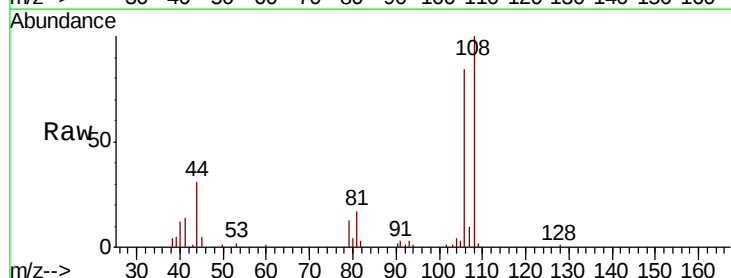
Tgt Ion: 108 Resp: 29624

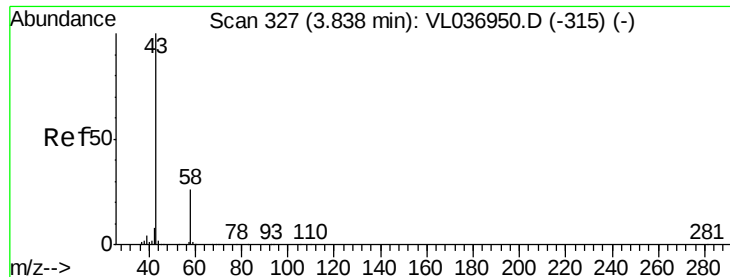
Ion Ratio Lower Upper

108 100

106 125.9 86.5 129.7

79 25.2 15.0 22.4#





#15

Acetone

Concen: 0.244 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

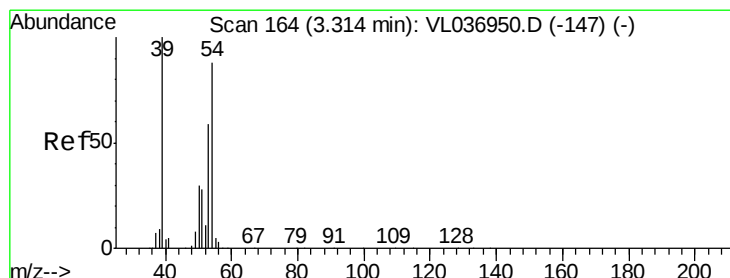
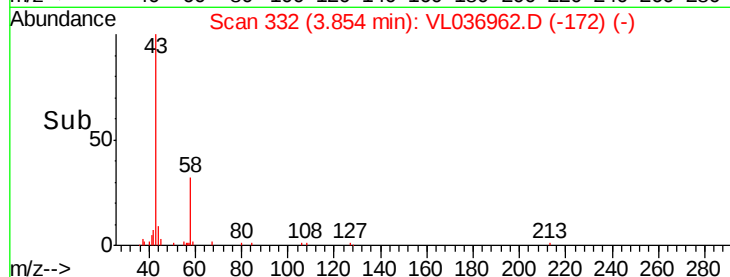
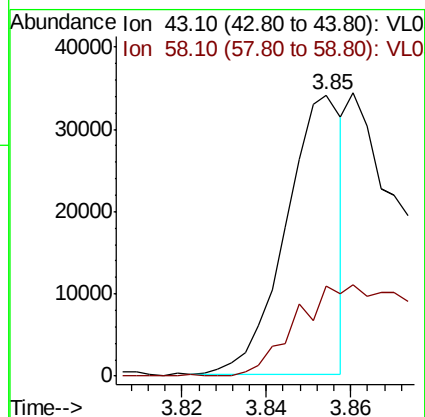
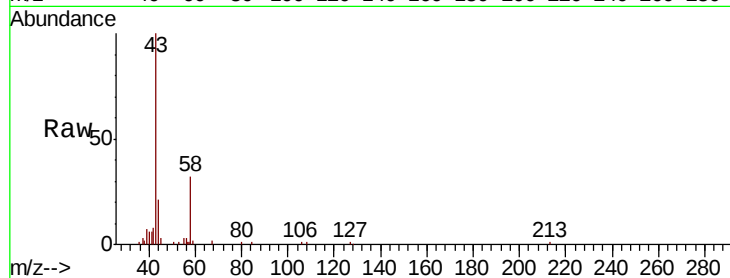
LOQ-AIR-02-QT2-2021

Tot Ion: 43 Resp: 31436

Ion Ratio Lower Upper

43 100

58 0.0 24.0 36.0#



#16

1,3-Butadiene

Concen: 0.515 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.01 min

Lab File: VL036962.D

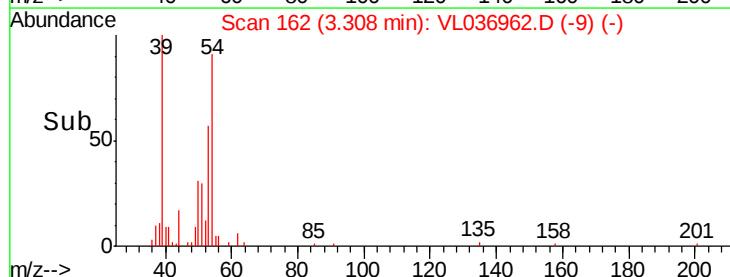
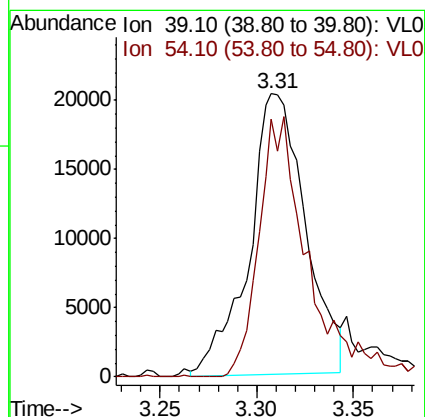
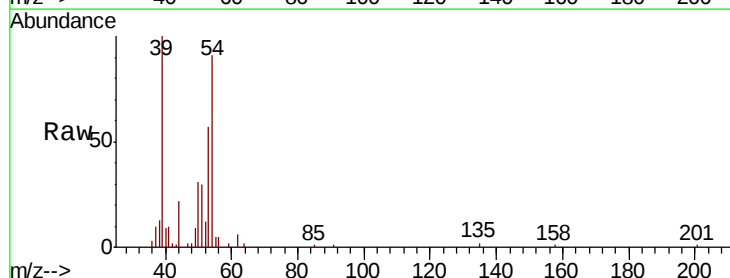
Acq: 18 May 2021 10:47

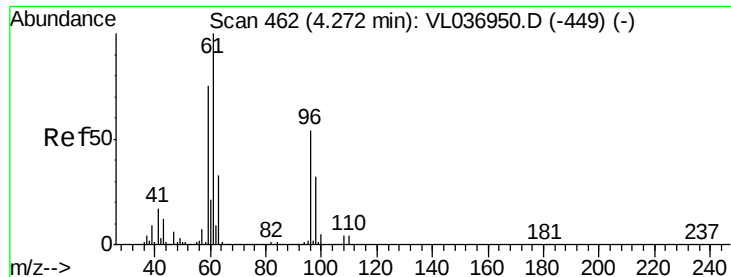
Tgt Ion: 39 Resp: 41319

Ion Ratio Lower Upper

39 100

54 82.0 63.2 94.8





#18

1,1-Dichloroethene

Concen: 0.543 ppbv

RT: 4.27 min Scan# 461

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

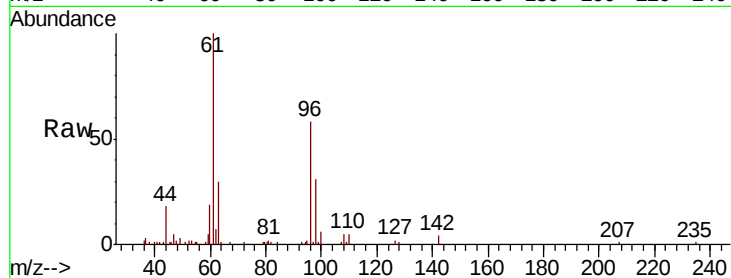
Tot Ion: 96 Resp: 35402

Ion Ratio Lower Upper

96 100

61 171.4 148.2 222.4

98 52.6 47.8 71.6

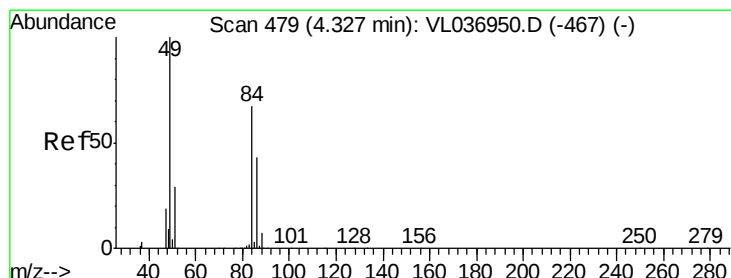
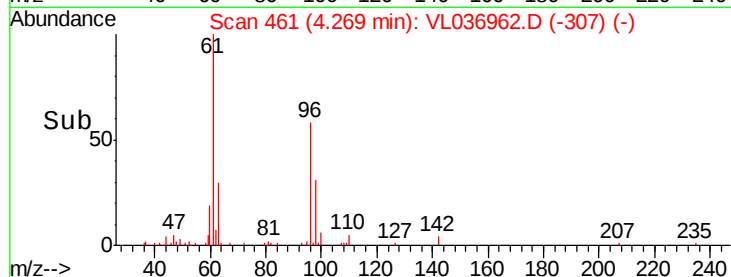
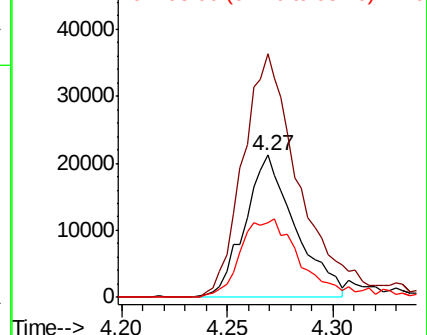


Abundance

Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#20

Methylene Chloride

Concen: 0.604 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Tgt Ion: 84 Resp: 41766

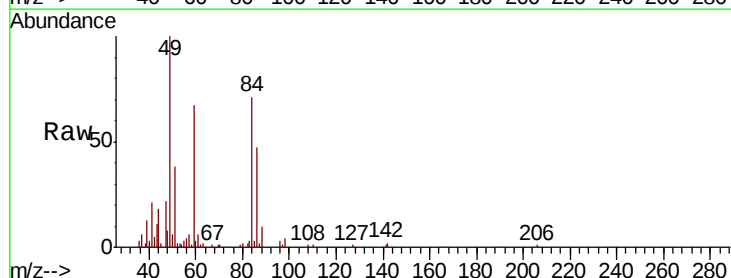
Ion Ratio Lower Upper

84 100

49 136.6 119.8 179.6

51 53.0 35.1 52.7#

86 66.2 50.9 76.3



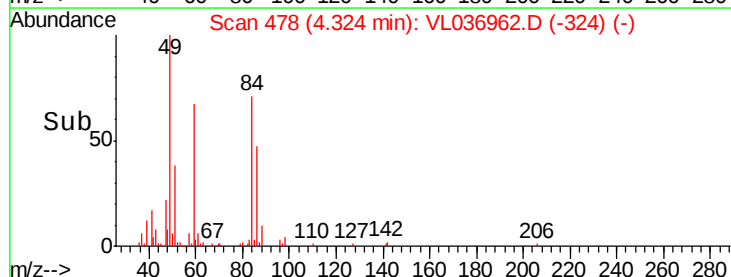
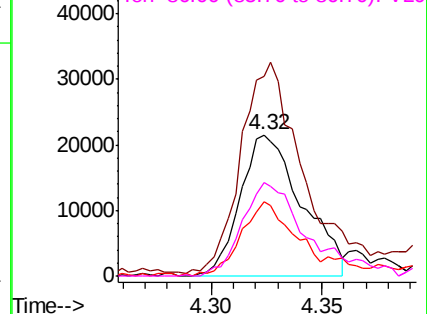
Abundance

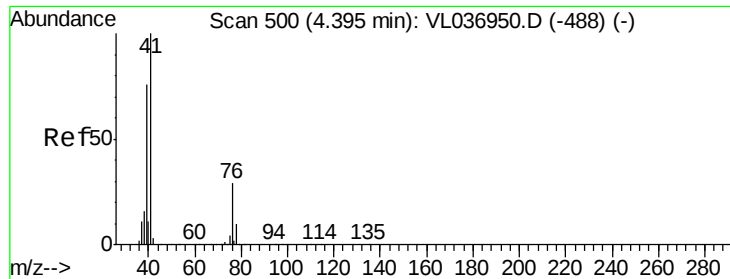
Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

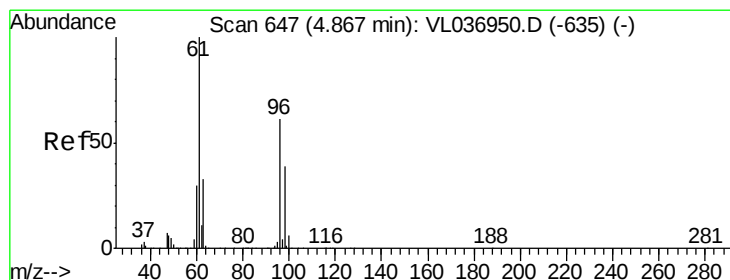
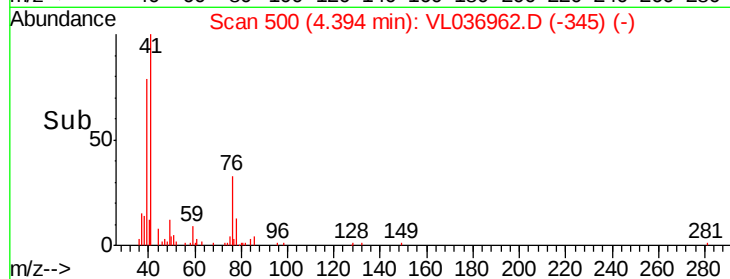
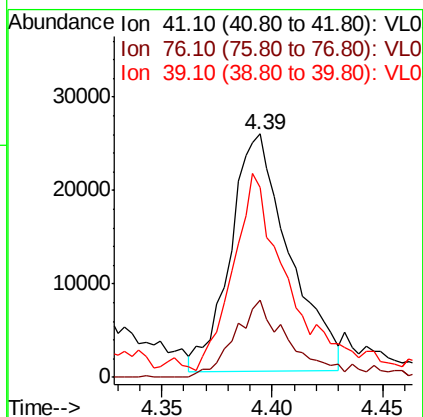
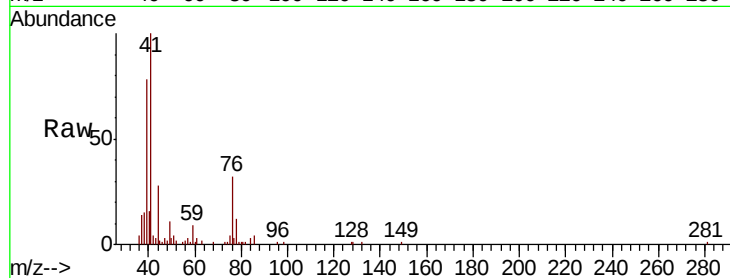




#21  
Allvl Chloride  
Concen: 0.484 ppbv  
RT: 4.39 min Scan# 500  
Delta R.T. -0.00 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

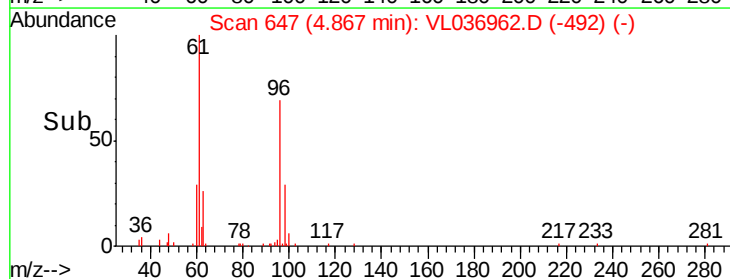
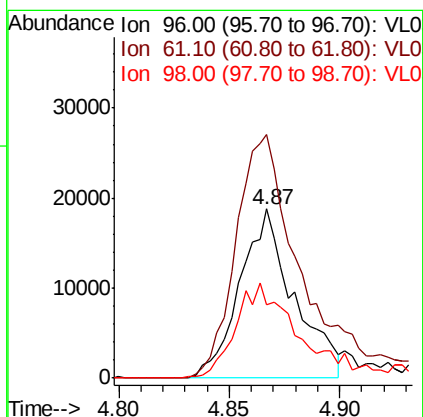
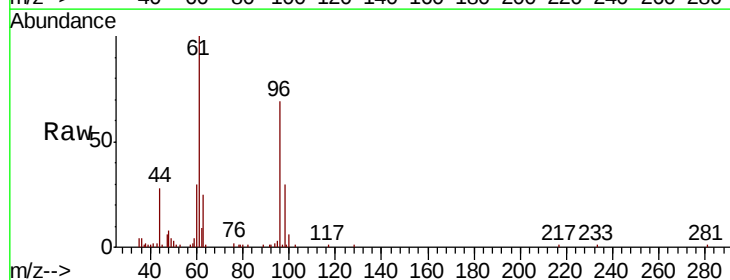
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT2-2021

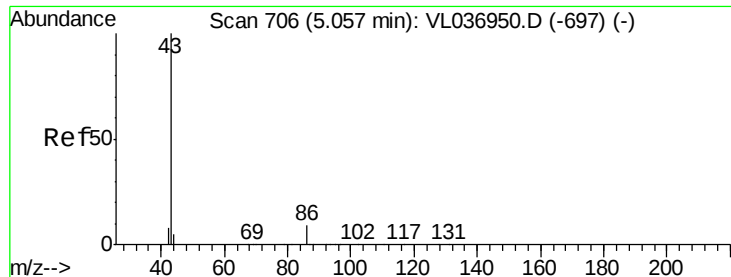
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 33.3  | 24.9  | 37.3  |
| 39      | 88.0  | 63.7  | 95.5  |



#22  
trans-1,2-Dichloroethene  
Concen: 0.514 ppbv  
RT: 4.87 min Scan# 647  
Delta R.T. -0.00 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 144.3 | 130.6 | 196.0 |
| 98      | 42.3  | 50.8  | 76.2# |





#23

Vinyl Acetate

Concen: 0.420 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

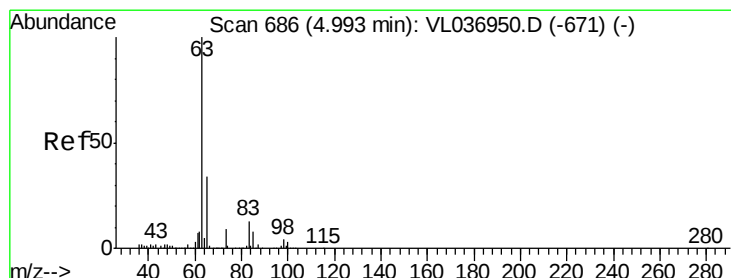
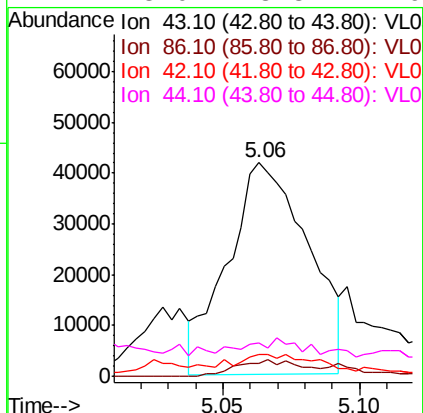
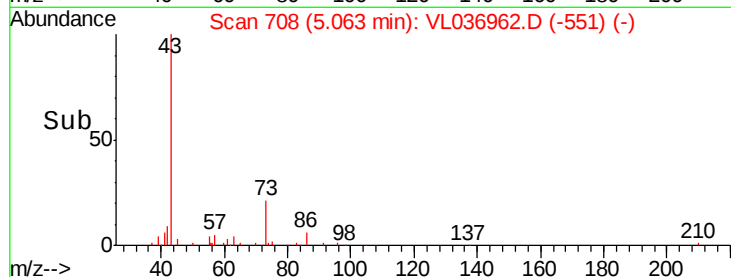
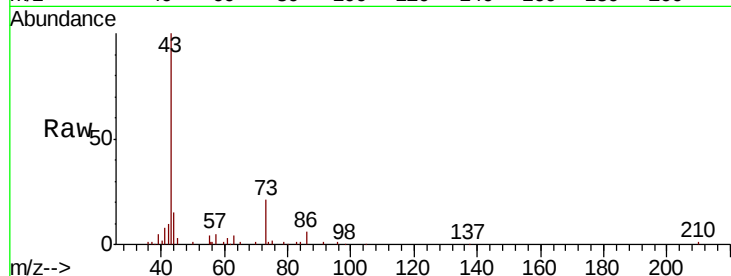
ClientSampleId :

LOQ-AIR-02-QT2-2021

Tot Ion: 43 Resp: 86074

Ion Ratio Lower Upper

|    |     |     |      |
|----|-----|-----|------|
| 43 | 100 |     |      |
| 86 | 8.2 | 5.8 | 8.8  |
| 42 | 8.8 | 7.4 | 11.2 |
| 44 | 8.0 | 3.3 | 4.9# |



#24

1,1-Dichloroethane

Concen: 0.504 ppbv

RT: 4.99 min Scan# 685

Delta R.T. -0.00 min

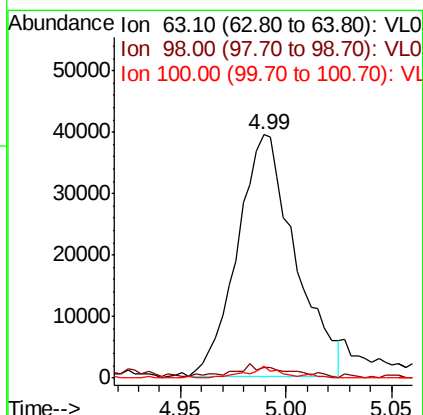
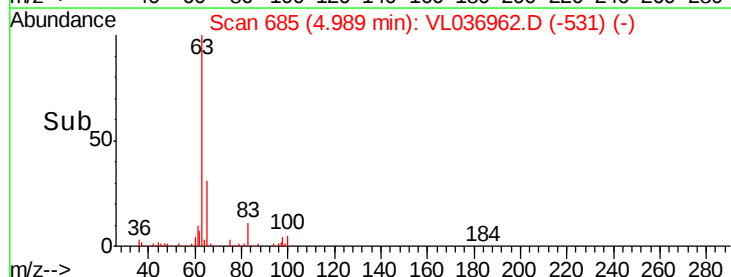
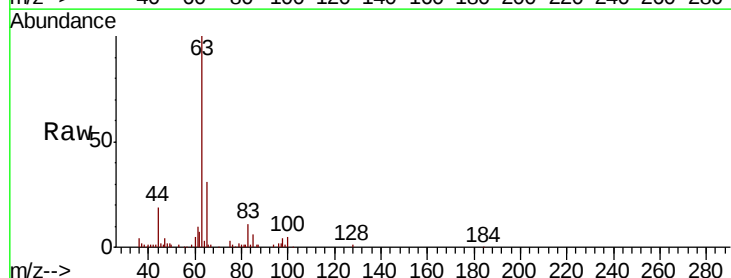
Lab File: VL036962.D

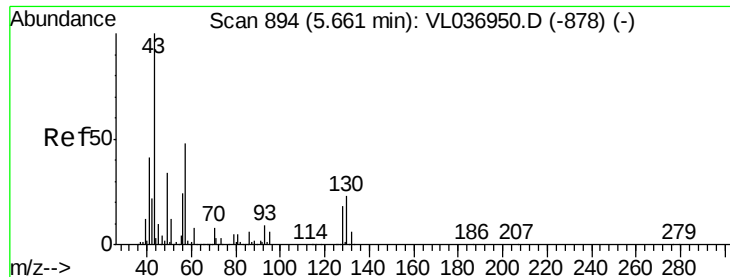
Acq: 18 May 2021 10:47

Tgt Ion: 63 Resp: 74329

Ion Ratio Lower Upper

|     |     |     |      |
|-----|-----|-----|------|
| 63  | 100 |     |      |
| 98  | 4.5 | 2.3 | 6.9  |
| 100 | 4.7 | 1.4 | 4.0# |

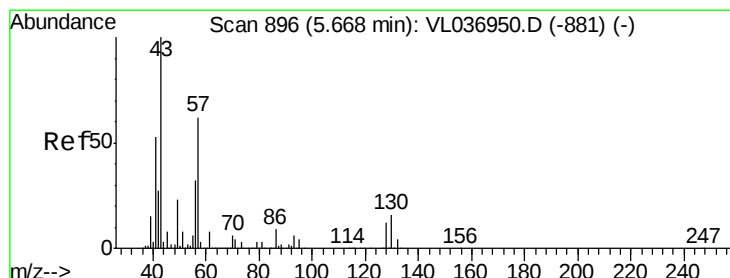
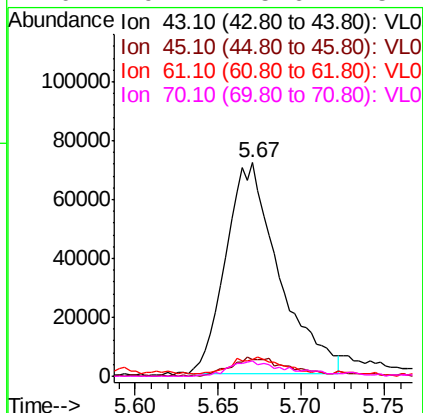
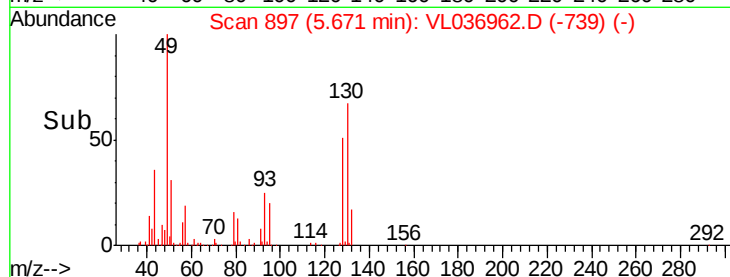
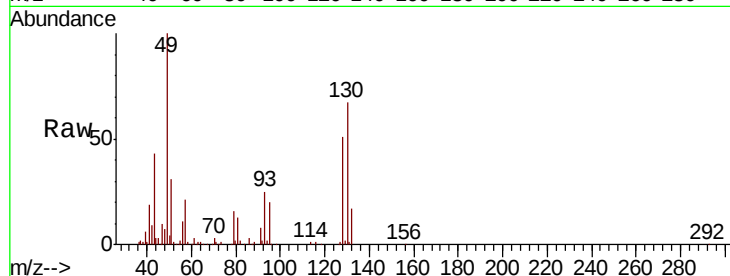




#25  
Ethyl Acetate  
Concen: 0.513 ppbv  
RT: 5.67 min Scan# 897  
Delta R.T. 0.01 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

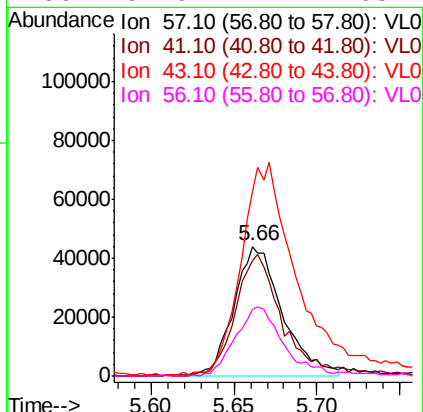
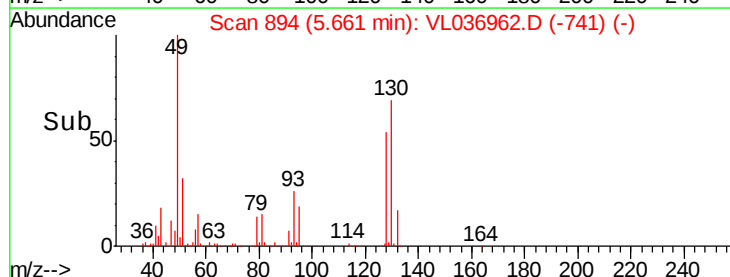
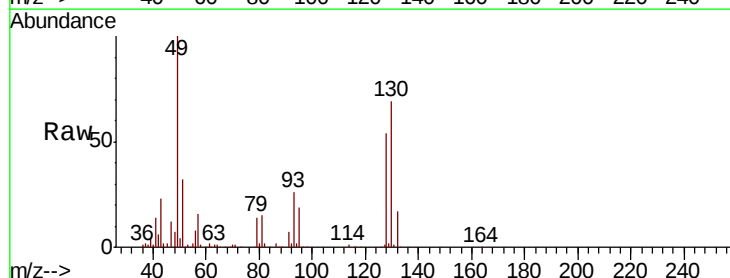
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT2-2021

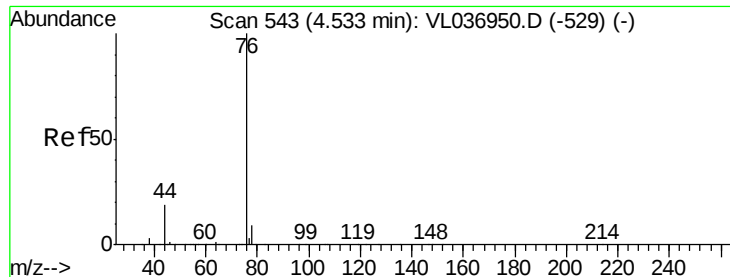
Tot Ion: 43 Resp: 159214  
Ion Ratio Lower Upper  
43 100  
45 11.0 7.8 11.8  
61 10.5 7.8 11.8  
70 9.1 5.6 8.4#



#26  
Hexane  
Concen: 0.563 ppbv  
RT: 5.66 min Scan# 894  
Delta R.T. -0.01 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

Tgt Ion: 57 Resp: 89192  
Ion Ratio Lower Upper  
57 100  
41 96.9 70.5 105.7  
43 202.9 165.8 248.8  
56 54.9 42.2 63.4





#27

Carbon Disulfide

Concen: 0.464 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

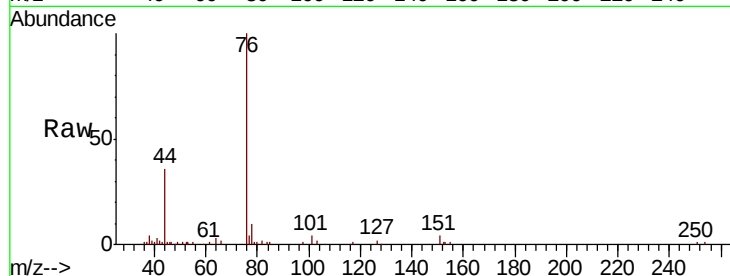
Tot Ion: 76 Resp: 74075

Ion Ratio Lower Upper

76 100

44 26.2 15.5 23.3#

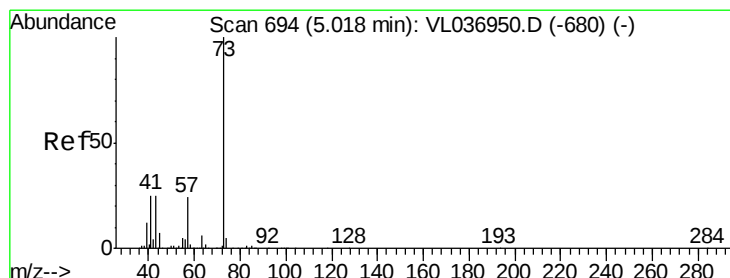
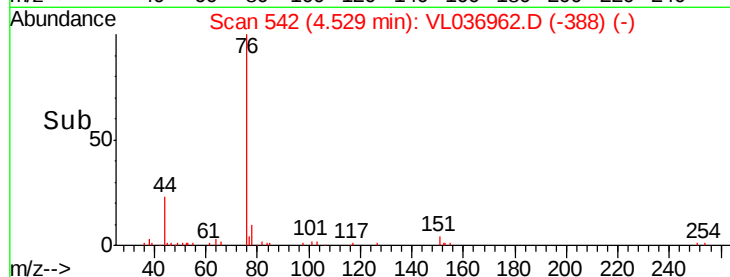
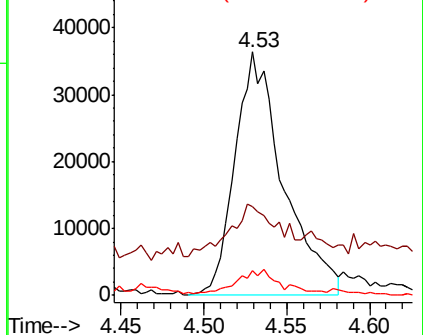
78 10.0 7.8 11.6



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.520 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.01 min

Lab File: VL036962.D

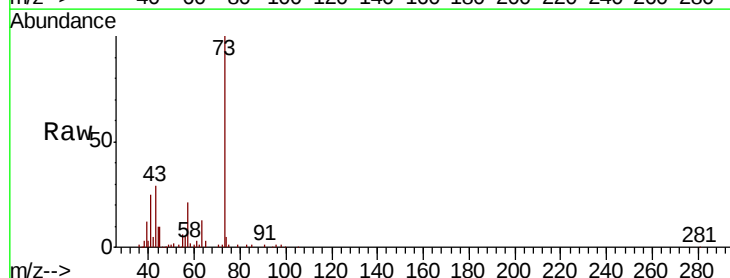
Acq: 18 May 2021 10:47

Tgt Ion: 73 Resp: 98825

Ion Ratio Lower Upper

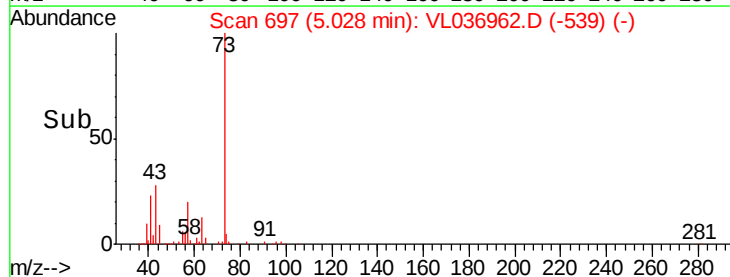
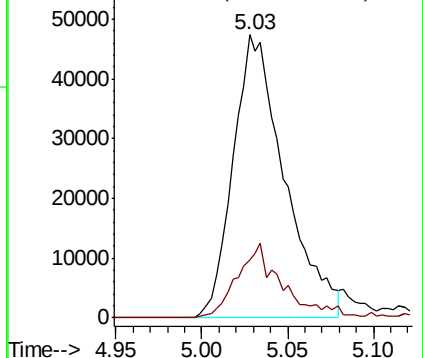
73 100

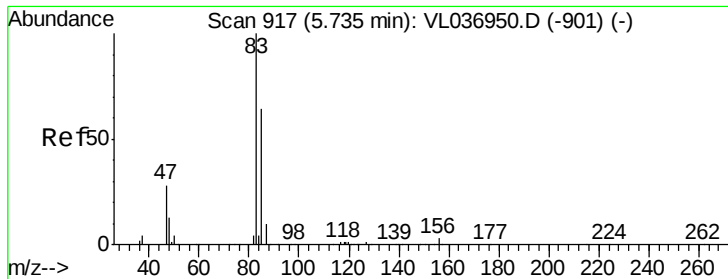
57 23.9 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.563 ppbv

RT: 5.73 min Scan# 914

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

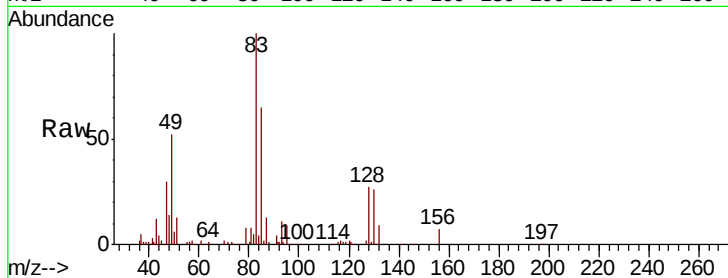
LOQ-AIR-02-QT2-2021

Tot Ion: 83 Resp: 125957

Ion Ratio Lower Upper

83 100

85 64.9 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.73

60000

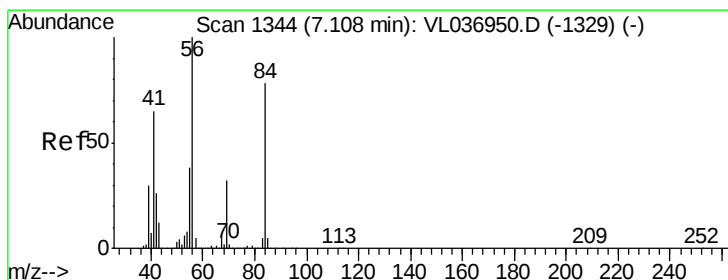
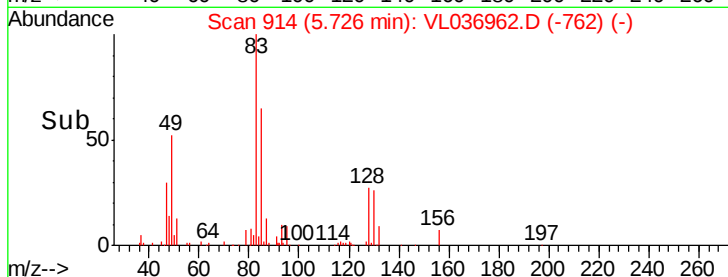
40000

20000

0

Time-->

5.65 5.70 5.75 5.80



#30

Cyclohexane

Concen: 0.540 ppbv

RT: 7.10 min Scan# 1343

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

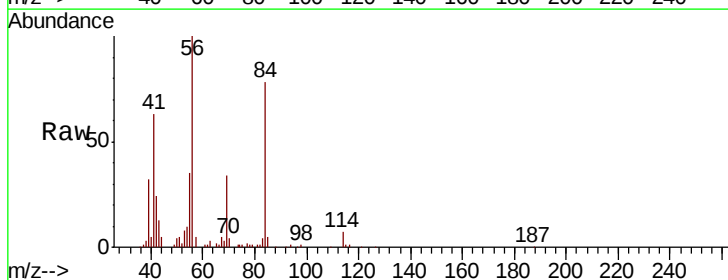
Tgt Ion: 84 Resp: 72744

Ion Ratio Lower Upper

84 100

56 120.8 107.9 161.9

41 84.8 65.5 98.3



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

60000

50000

40000

30000

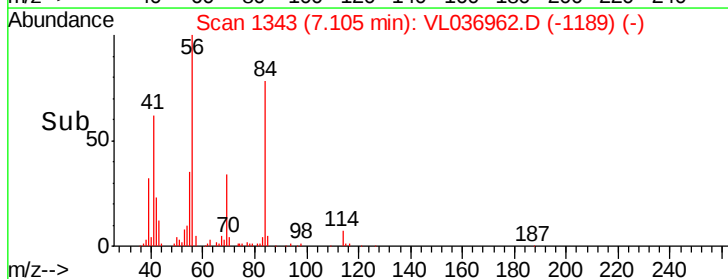
20000

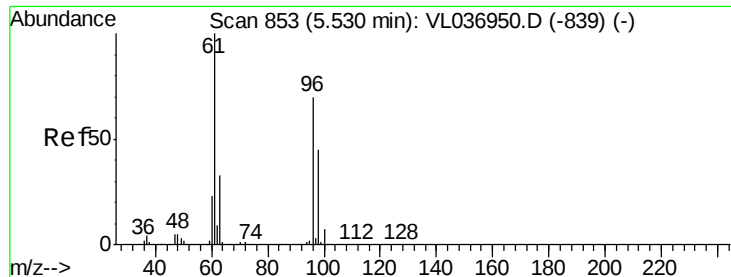
10000

0

Time-->

7.05 7.10 7.15



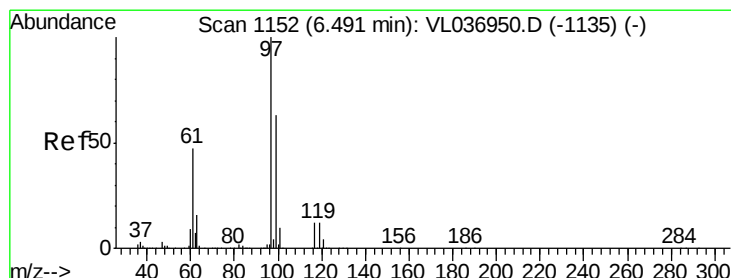
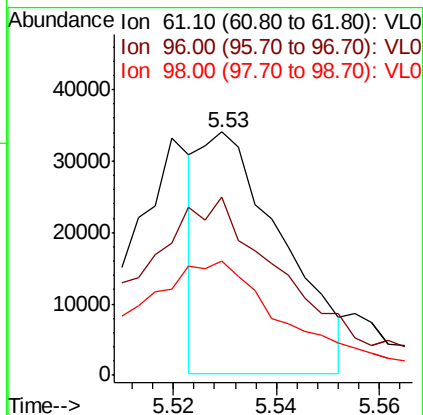
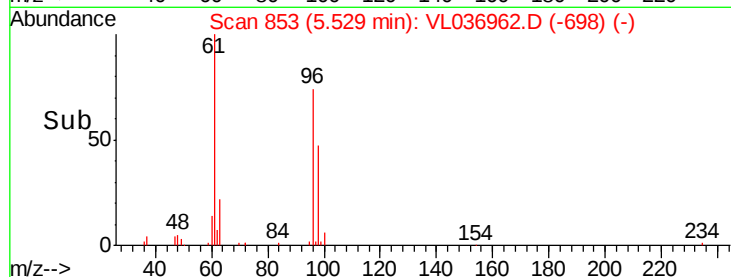
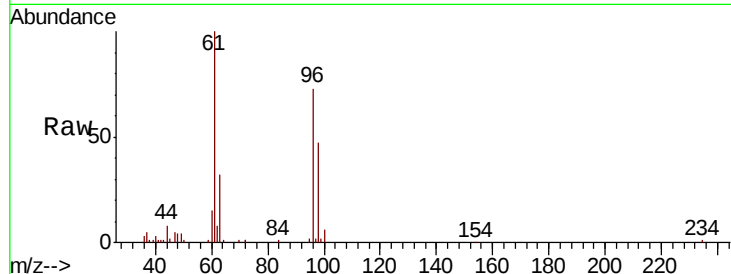


#31

cis-1,2-Dichloroethene  
 Concen: 0.262 ppbv  
 RT: 5.53 min Scan# 853  
 Delta R.T. -0.00 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

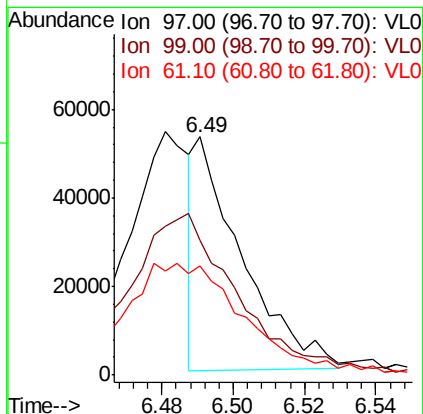
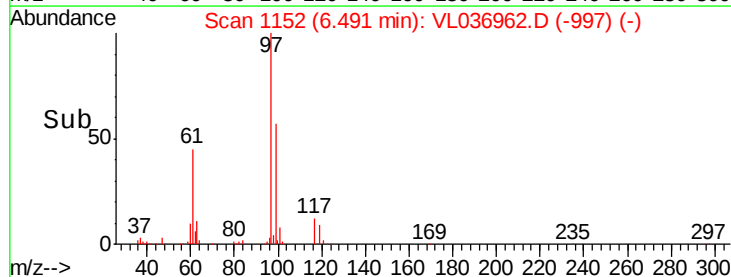
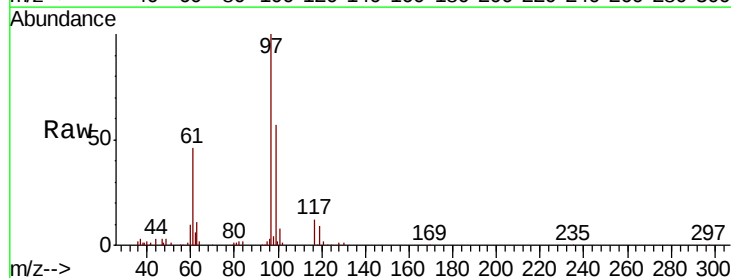
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 62.7  | 55.9  | 83.9  |
| 98      | 43.8  | 35.6  | 53.4  |

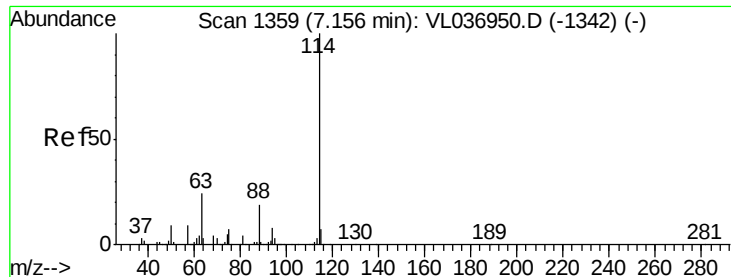


#32

1,1,1-Trichloroethane  
 Concen: 0.201 ppbv  
 RT: 6.49 min Scan# 1152  
 Delta R.T. -0.00 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 163.8 | 51.9  | 77.9# |
| 61      | 0.0   | 37.6  | 56.4# |

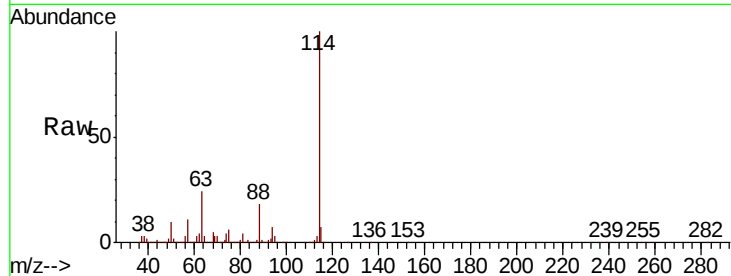




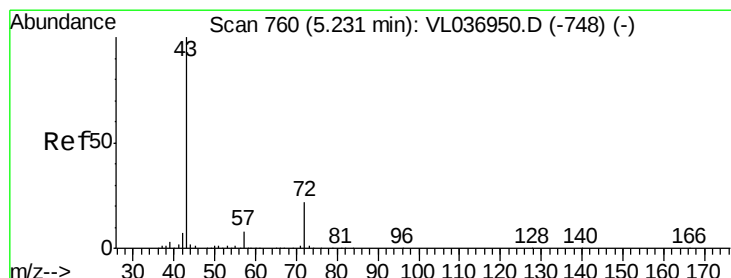
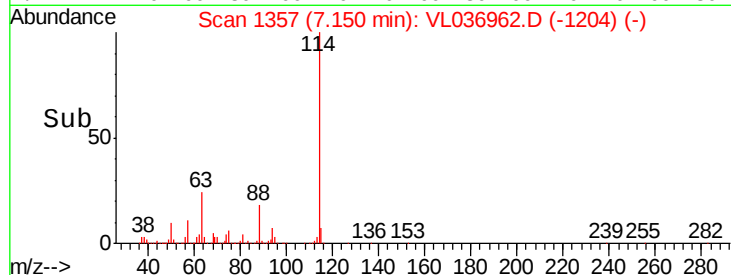
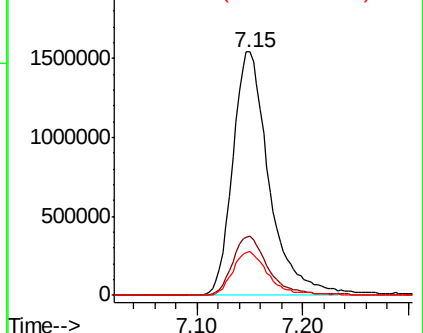
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.15 min Scan# 1357  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

Tot Ion:114 Resp: 3665804  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 19.6 29.4  
 88 18.0 14.6 21.8

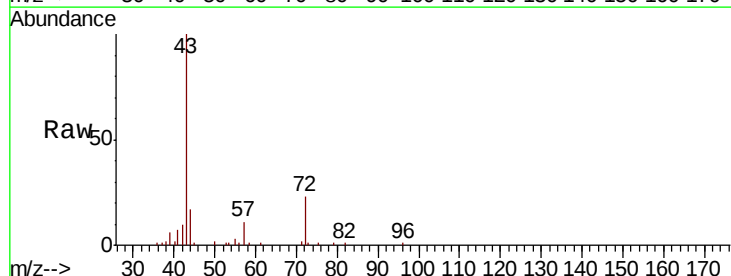


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

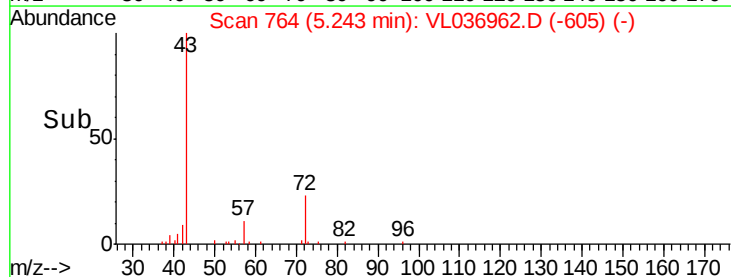
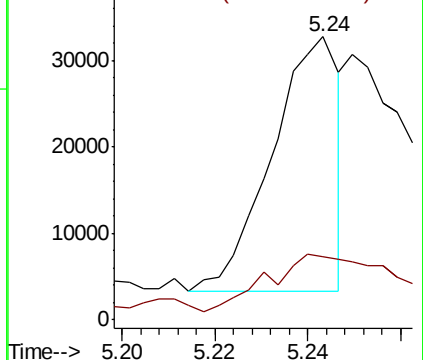


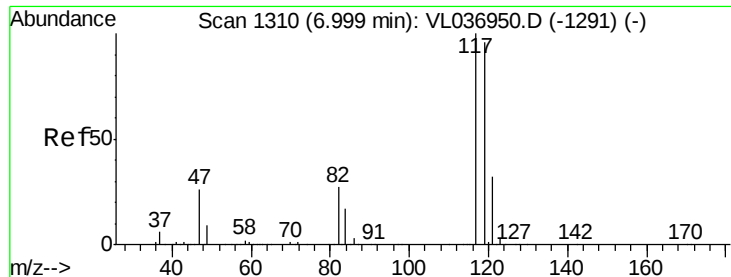
#34  
 2-Butanone  
 Concen: 0.223 ppbv  
 RT: 5.24 min Scan# 764  
 Delta R.T. 0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

Tgt Ion: 43 Resp: 29778  
 Ion Ratio Lower Upper  
 43 100  
 72 74.9 19.0 28.4#



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





#35

Carbon Tetrachloride

Concen: 0.492 ppbv

RT: 6.99 min Scan# 1308

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

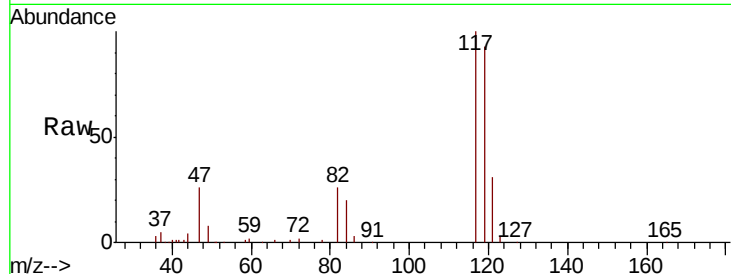
Tot Ion:117 Resp: 119900

Ion Ratio Lower Upper

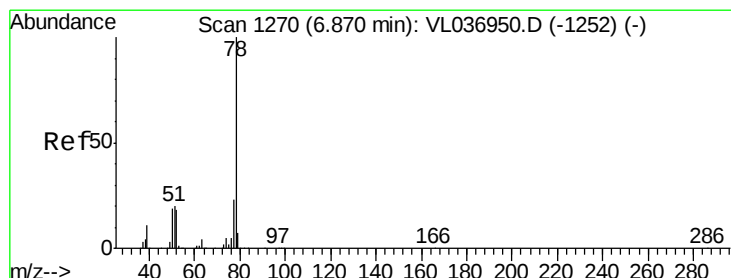
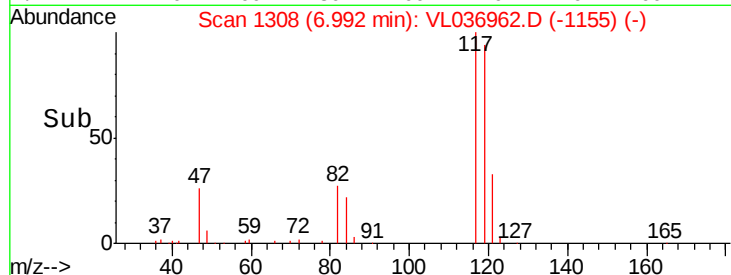
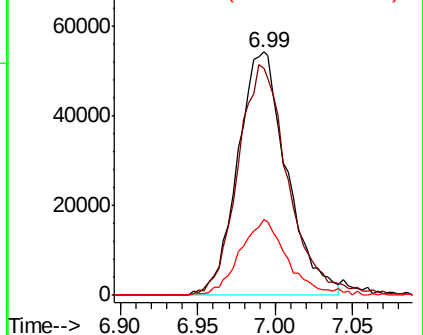
117 100

119 93.0 76.6 114.8

121 31.3 25.8 38.6



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.555 ppbv

RT: 6.86 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

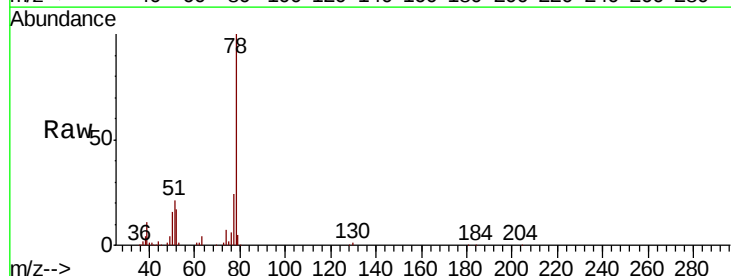
Tgt Ion: 78 Resp: 175289

Ion Ratio Lower Upper

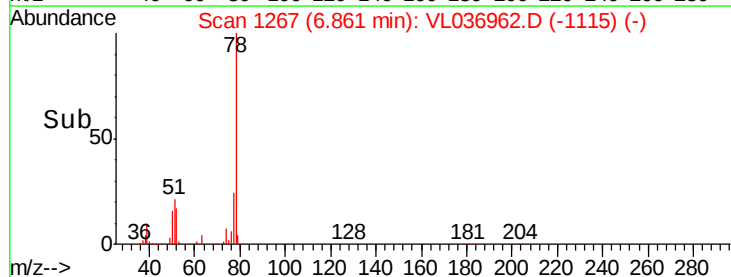
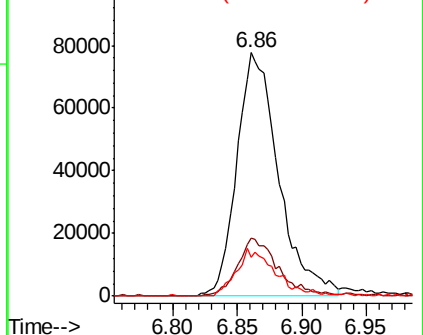
78 100

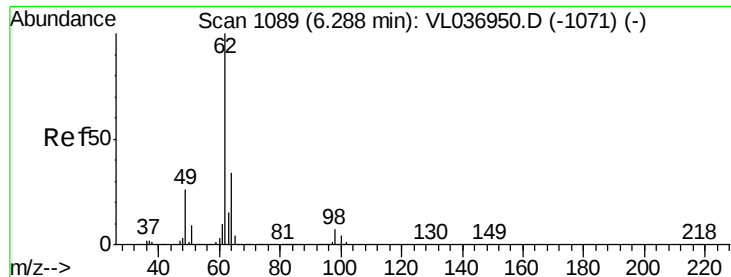
77 23.9 18.6 28.0

50 15.8 15.0 22.4



Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0

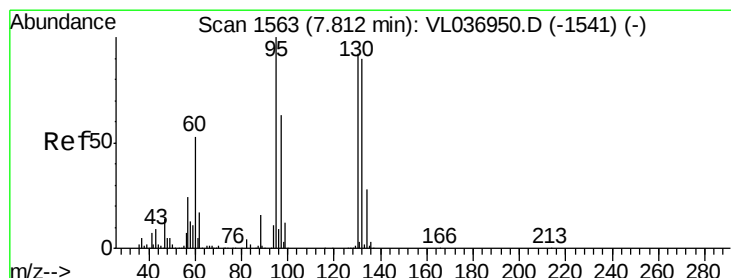
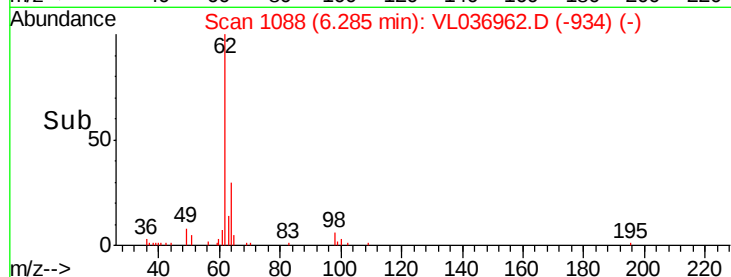
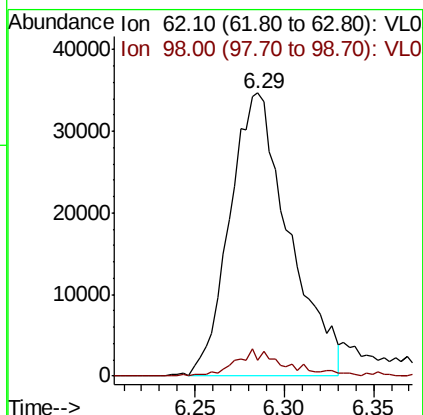
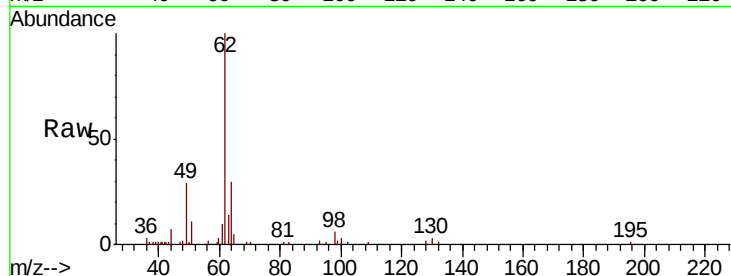




#37  
 1,2-Dichloroethane  
 Concen: 0.512 ppbv  
 RT: 6.29 min Scan# 1088  
 Delta R.T. -0.00 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

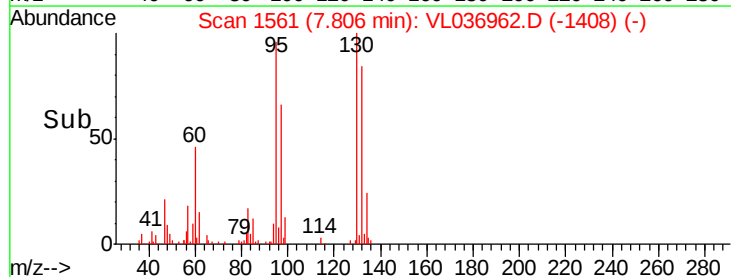
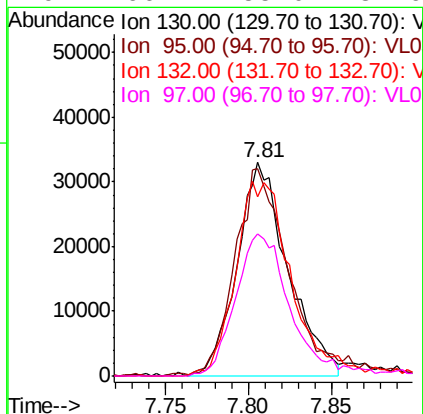
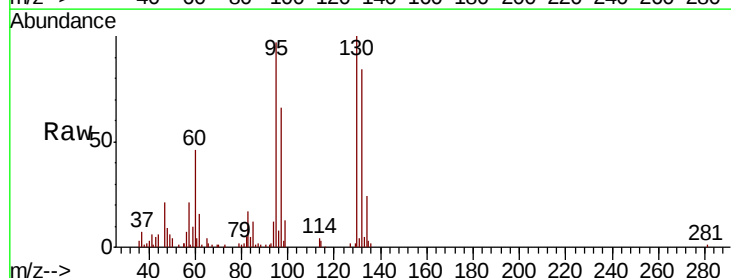
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

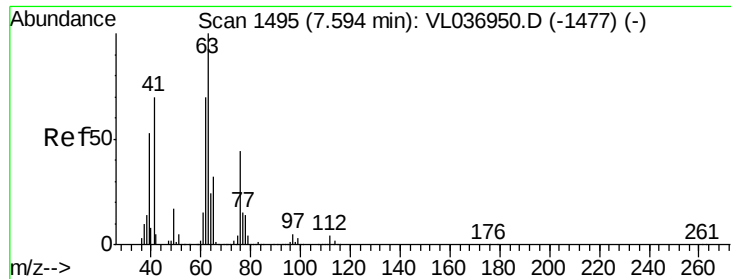
Tot Ion: 62 Resp: 80178  
 Ion Ratio Lower Upper  
 62 100  
 98 7.8 5.5 8.3



#38  
 Trichloroethene  
 Concen: 0.522 ppbv  
 RT: 7.81 min Scan# 1561  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

Tgt Ion: 130 Resp: 70450  
 Ion Ratio Lower Upper  
 130 100  
 95 96.6 86.9 130.3  
 132 83.1 78.4 117.6  
 97 66.4 55.0 82.6

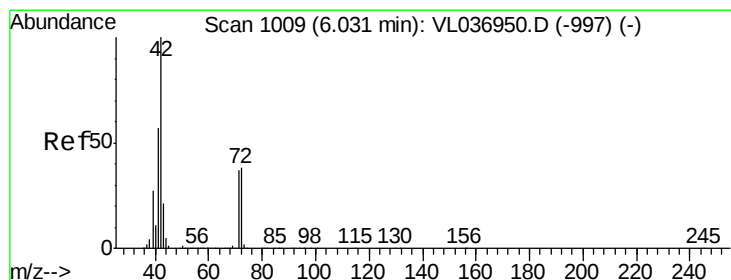
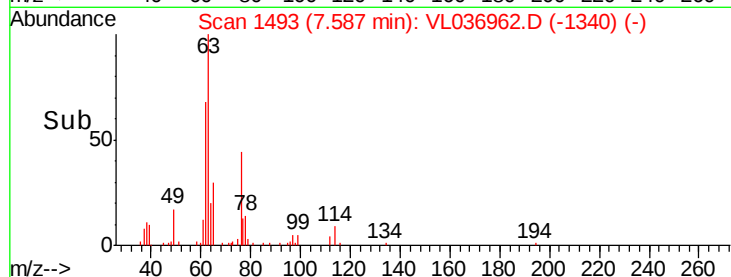
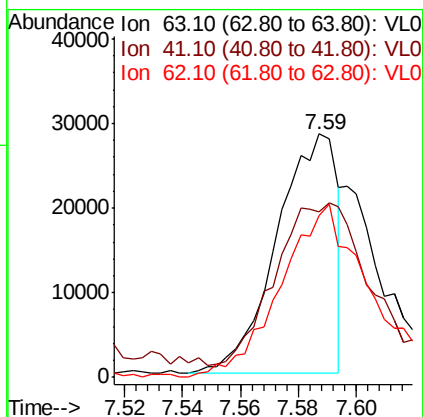
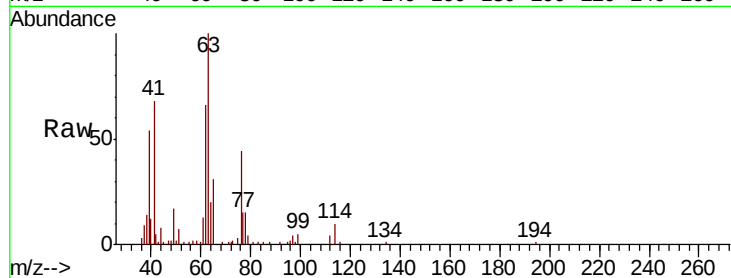




#39  
 1,2-Dichloropropane  
 Concen: 0.336 ppbv  
 RT: 7.59 min Scan# 1493  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

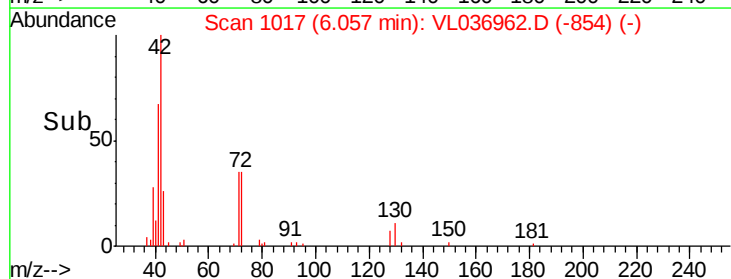
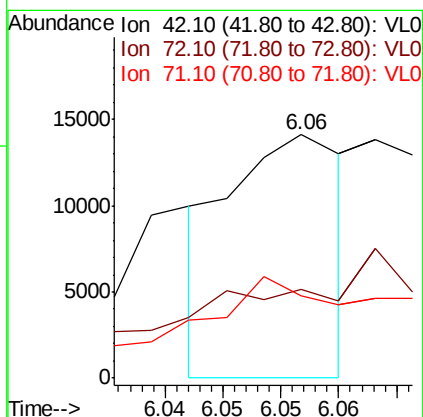
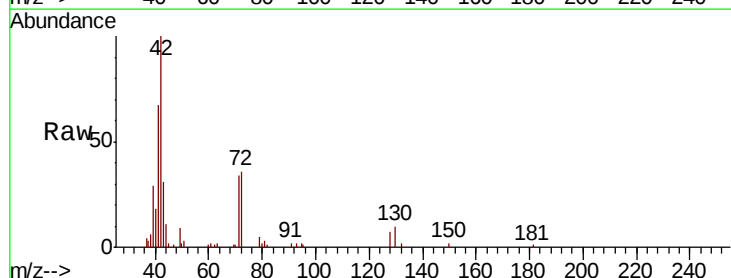
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

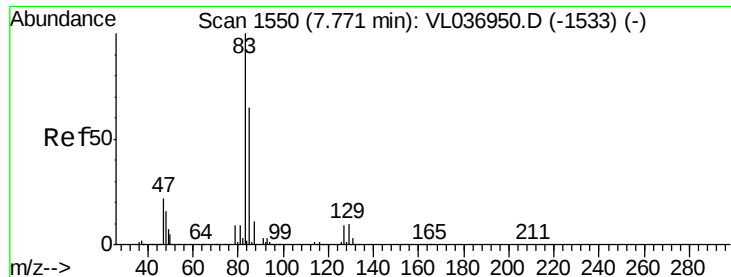
| Tot Ion | 63    | Resp  | 40818 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 63      | 100   |       |       |
| 41      | 62.9  | 55.7  | 83.5  |
| 62      | 67.6  | 56.2  | 84.4  |



#41  
 Tetrahydrofuran  
 Concen: 0.127 ppbv  
 RT: 6.06 min Scan# 1017  
 Delta R.T. 0.03 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

| Tgt Ion | 42    | Resp  | 9683  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 42      | 100   |       |       |
| 72      | 0.0   | 31.4  | 47.2# |
| 71      | 160.1 | 30.4  | 45.6# |





#42

Bromodichloromethane

Concen: 0.485 ppbv

RT: 7.76 min Scan# 1548

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

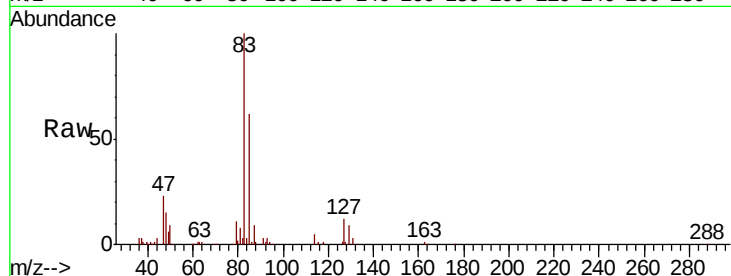
Tot Ion: 83 Resp: 114813

Ion Ratio Lower Upper

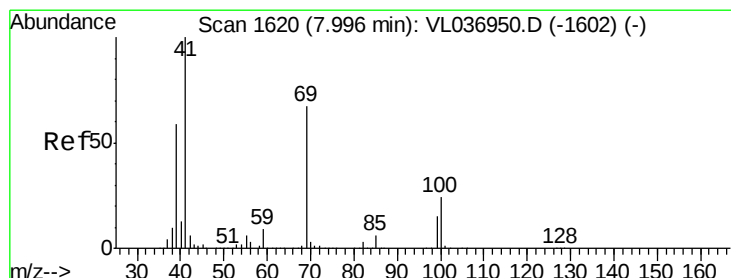
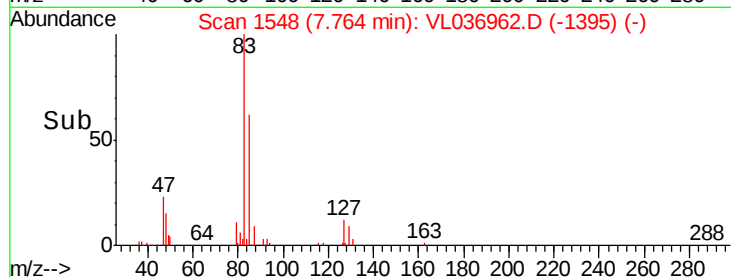
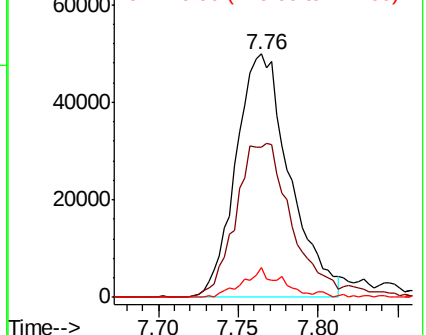
83 100

85 61.6 51.7 77.5

127 12.1 6.9 10.3#



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



#43

Methyl Methacrylate

Concen: 0.451 ppbv

RT: 8.00 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

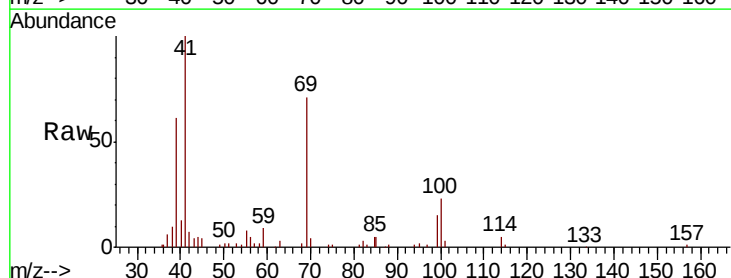
Tgt Ion: 69 Resp: 49092

Ion Ratio Lower Upper

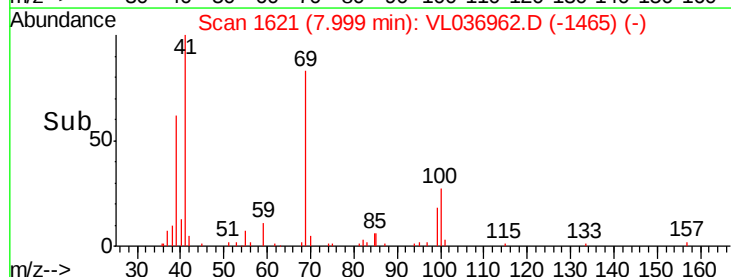
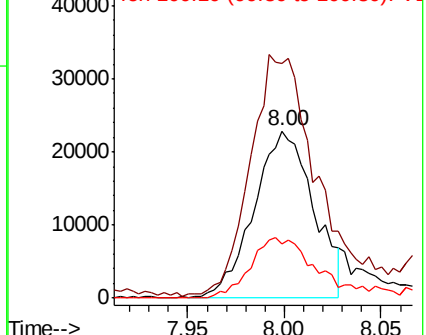
69 100

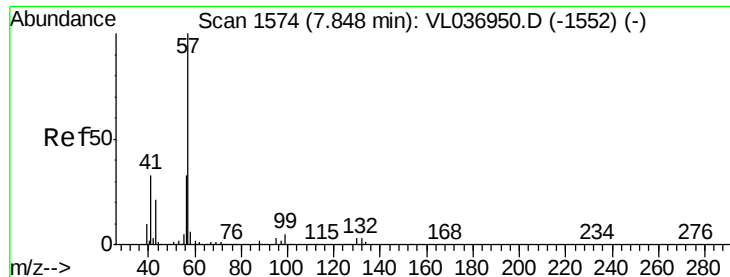
41 161.4 118.6 178.0

100 41.5 28.2 42.4



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

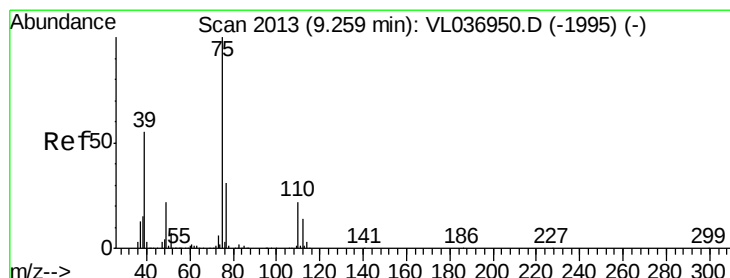
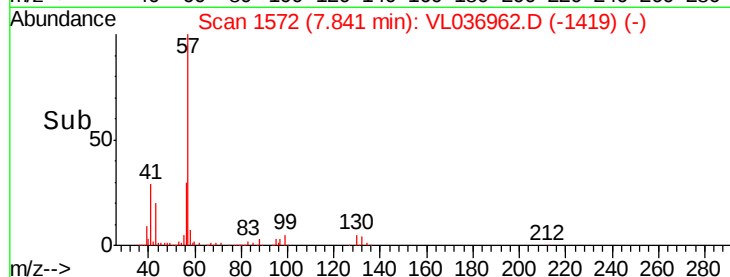
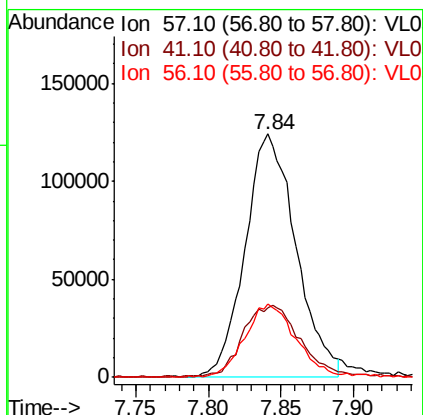
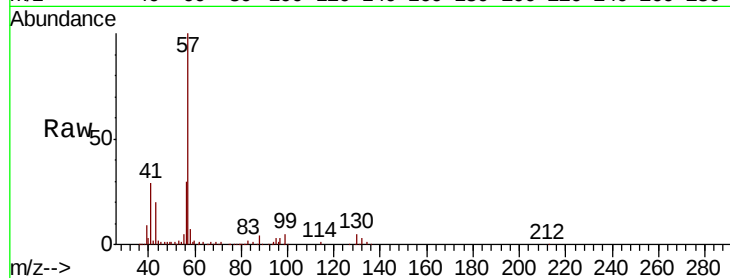




#44  
 2,2,4-Trimethylpentane  
 Concen: 0.560 ppbv  
 RT: 7.84 min Scan# 1572  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

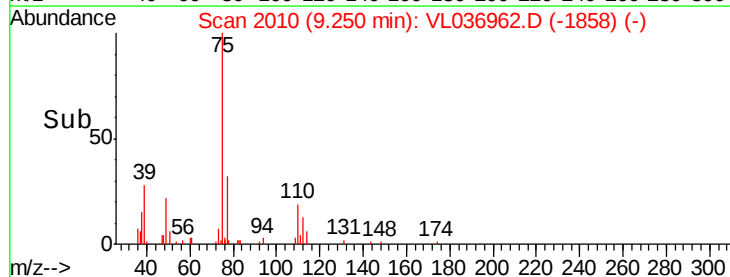
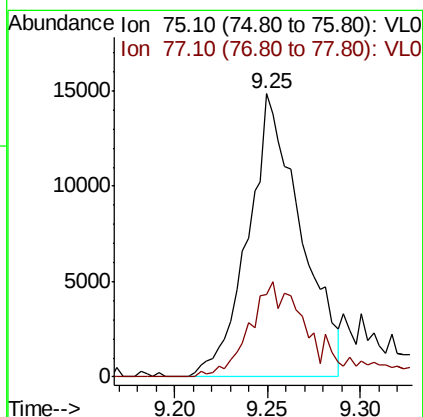
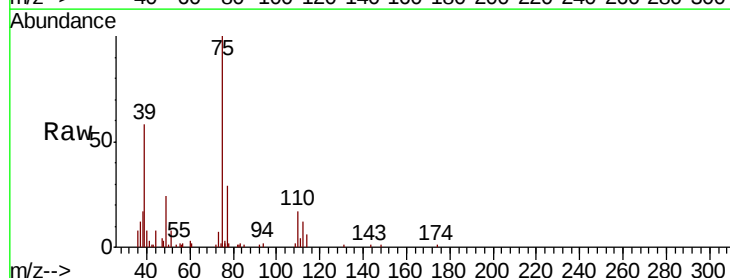
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

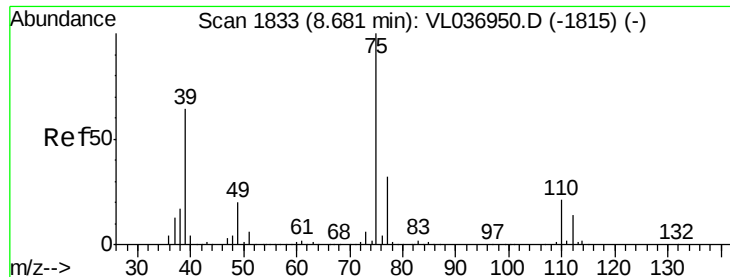
| Tot Ion   | 57   | Resp  | 303355 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 41        | 33.5 | 27.0  | 40.4   |
| 56        | 31.4 | 25.4  | 38.2   |



#45  
 t-1,3-Dichloropropene  
 Concen: 0.353 ppbv  
 RT: 9.25 min Scan# 2010  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

| Tgt Ion   | 75   | Resp  | 29382 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 77        | 28.4 | 24.4  | 36.6  |

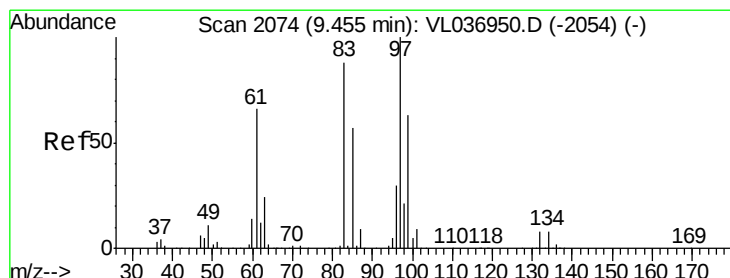
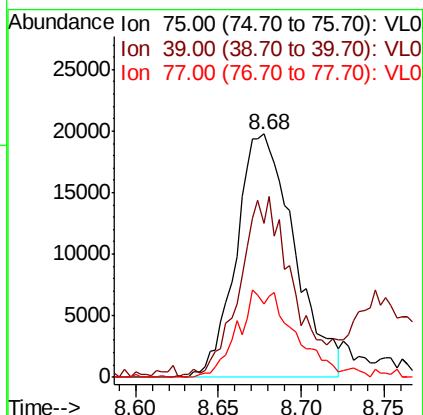
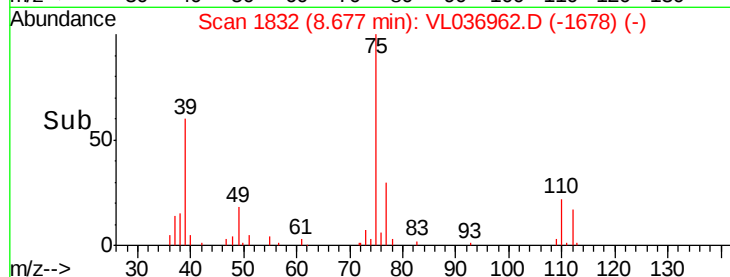
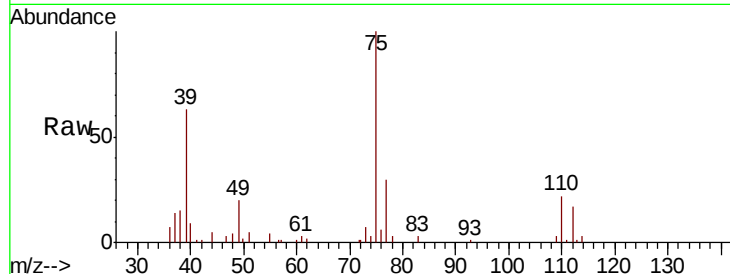




#46  
 cis-1,3-Dichloropropene  
 Concen: 0.430 ppbv  
 RT: 8.68 min Scan# 1832  
 Delta R.T. -0.00 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

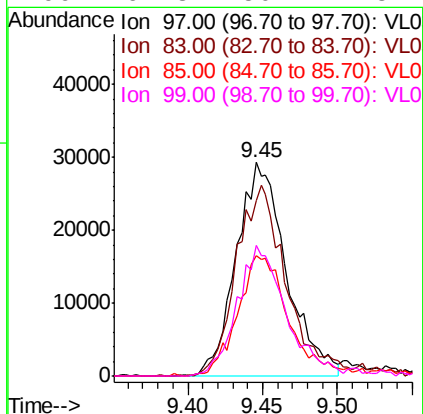
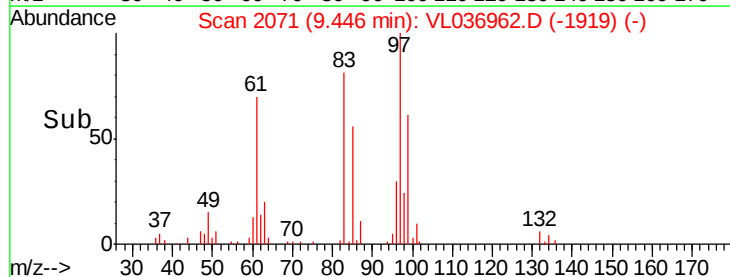
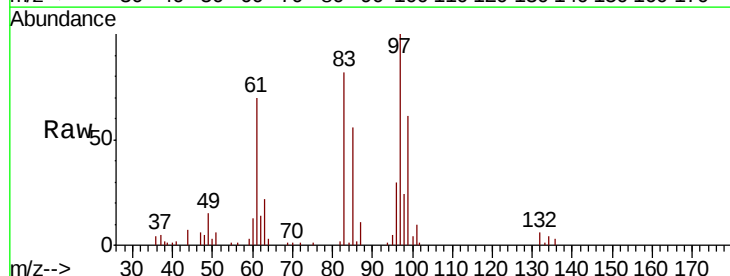
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

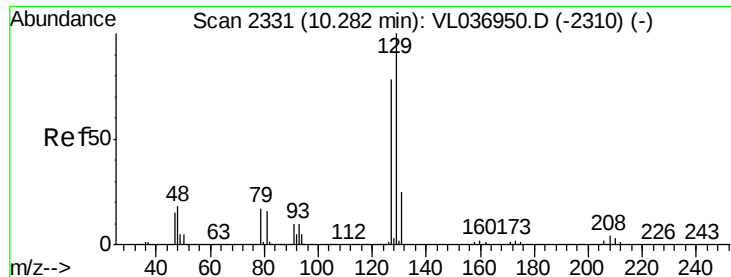
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 39      | 62.1  | 51.5  | 77.3  |
| 77      | 30.4  | 25.9  | 38.9  |



#47  
 1,1,2-Trichloroethane  
 Concen: 0.536 ppbv  
 RT: 9.45 min Scan# 2071  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 81.1  | 70.4  | 105.6 |
| 85      | 56.2  | 45.5  | 68.3  |
| 99      | 61.3  | 50.2  | 75.2  |





#48

Dibromochloromethane

Concen: 0.462 ppbv

RT: 10.28 min Scan# 2329

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

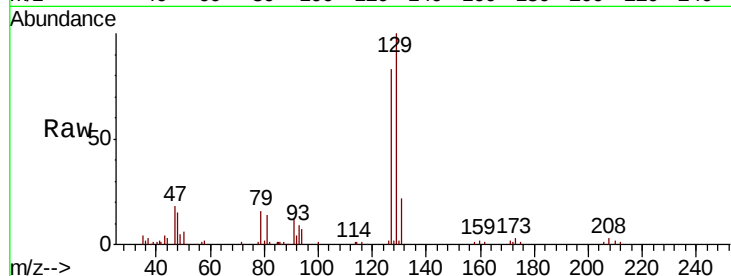
LOQ-AIR-02-QT2-2021

Tot Ion:129 Resp: 95199

Ion Ratio Lower Upper

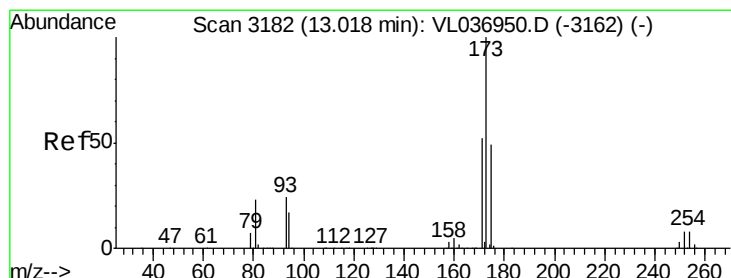
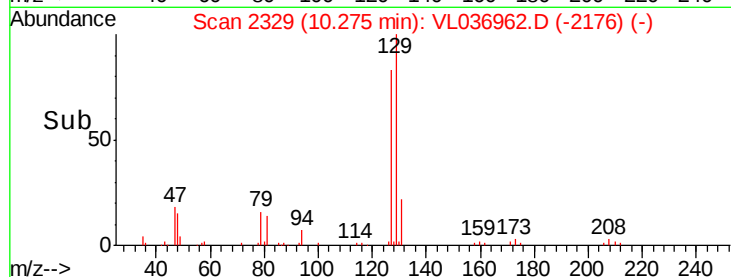
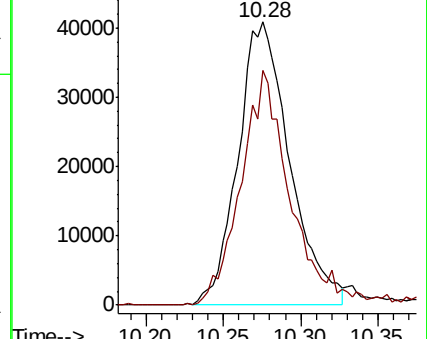
129 100

127 82.0 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.397 ppbv

RT: 13.01 min Scan# 3179

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

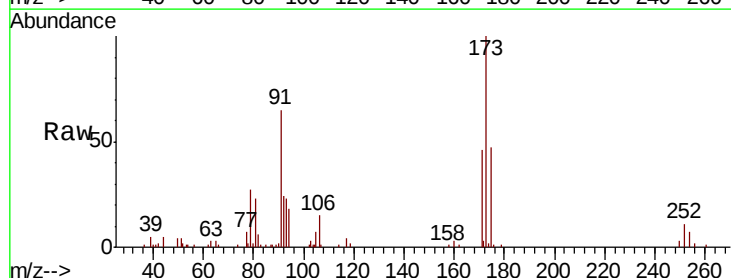
Tgt Ion:173 Resp: 67668

Ion Ratio Lower Upper

173 100

175 52.6 40.4 60.6

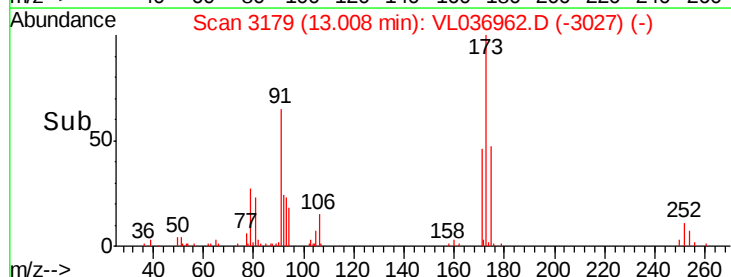
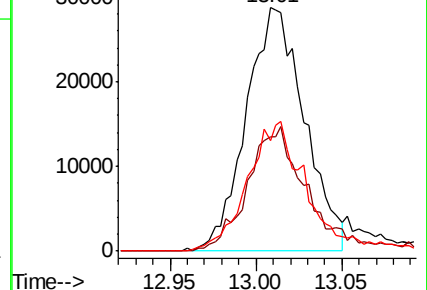
171 54.0 42.6 64.0

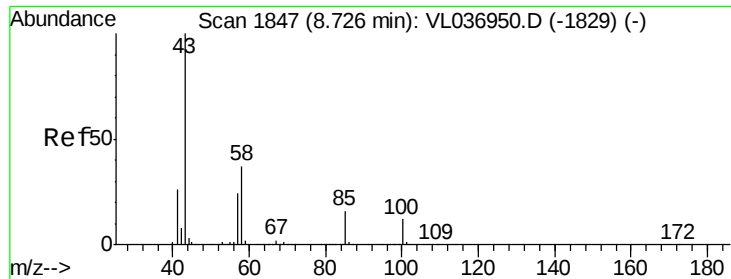


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V

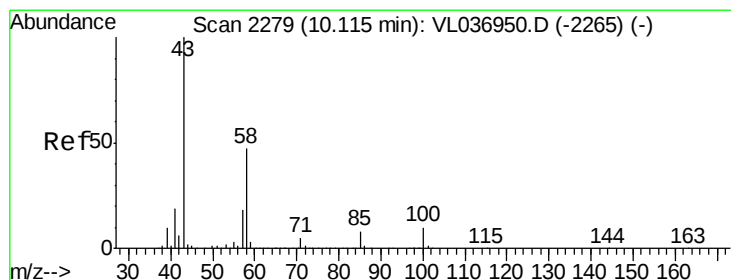
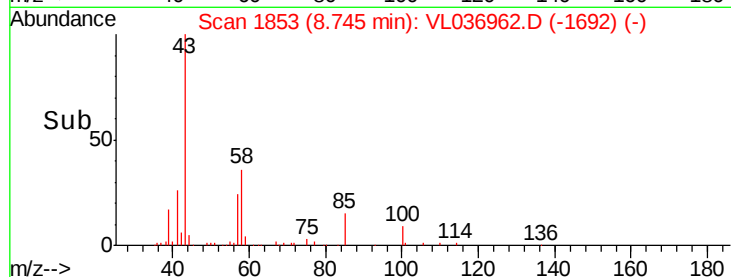
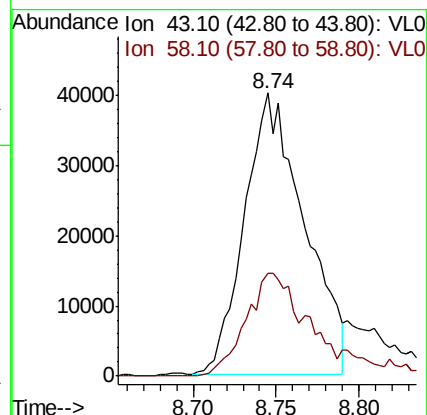
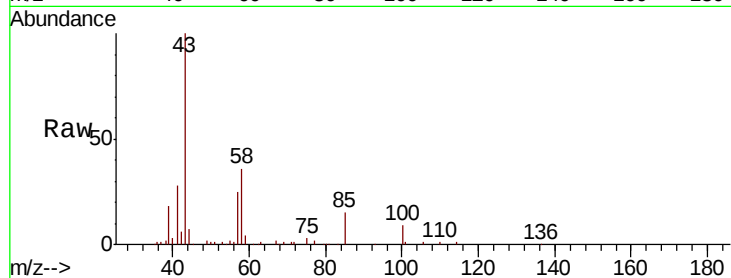




#50  
4-Methyl-2-Pentanone  
Concen: 0.459 ppbv  
RT: 8.74 min Scan# 1853  
Delta R.T. 0.02 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

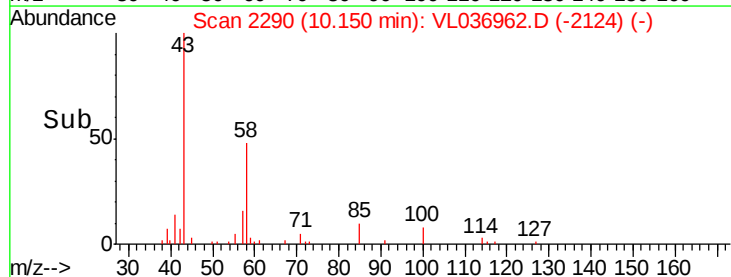
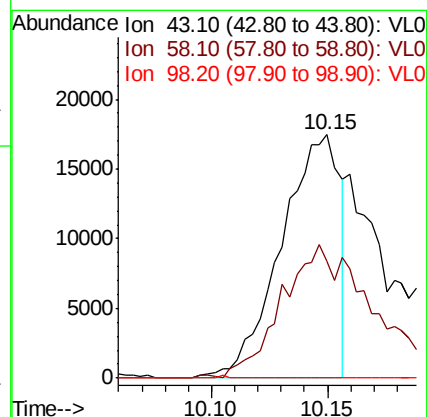
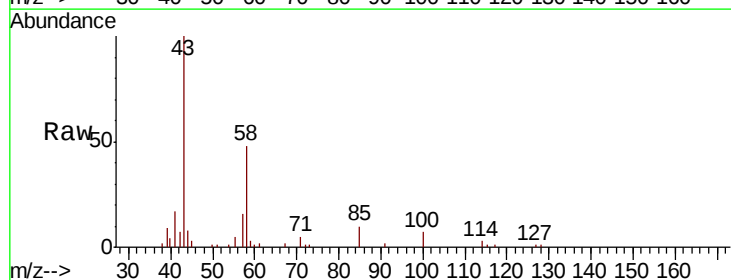
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT2-2021

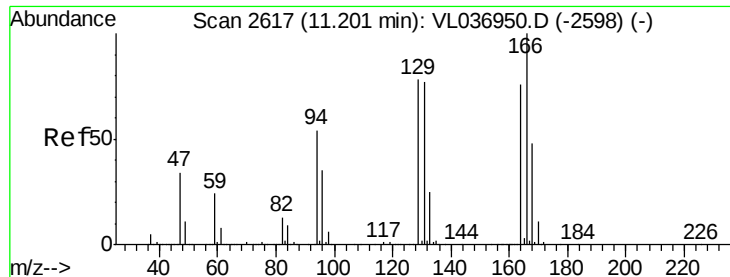
Tot Ion: 43 Resp: 101080  
Ion Ratio Lower Upper  
43 100  
58 43.7 29.4 44.2



#51  
2-Hexanone  
Concen: 0.264 ppbv  
RT: 10.15 min Scan# 2290  
Delta R.T. 0.04 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

Tgt Ion: 43 Resp: 30735  
Ion Ratio Lower Upper  
43 100  
58 94.2 41.1 61.7#  
98 0.0 0.1 0.1#

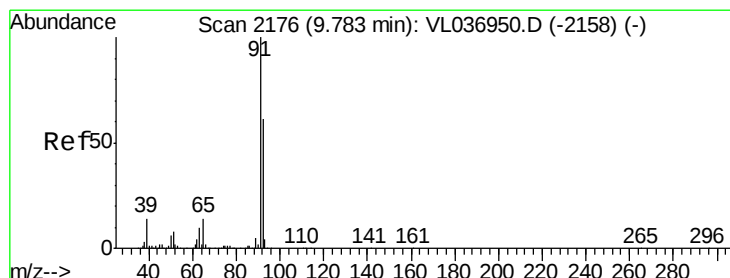
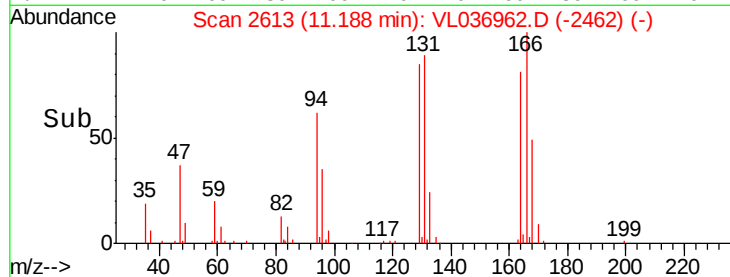
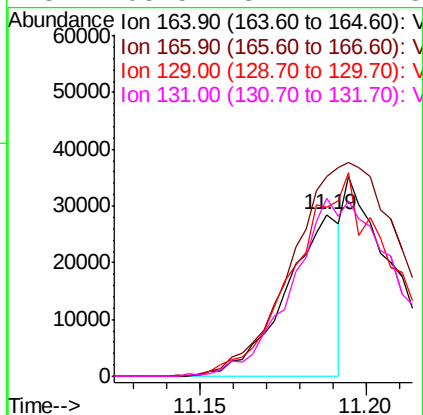
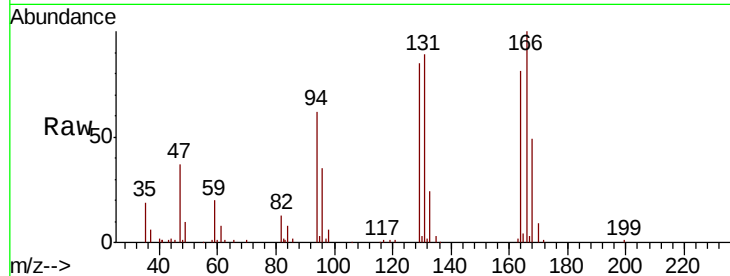




#52  
Tetrachloroethene  
Concen: 0.257 ppbv  
RT: 11.19 min Scan# 2613  
Delta R.T. -0.01 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

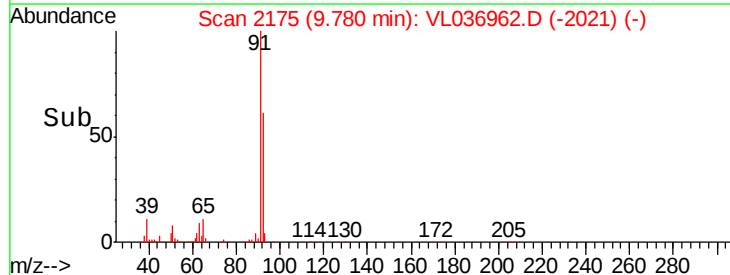
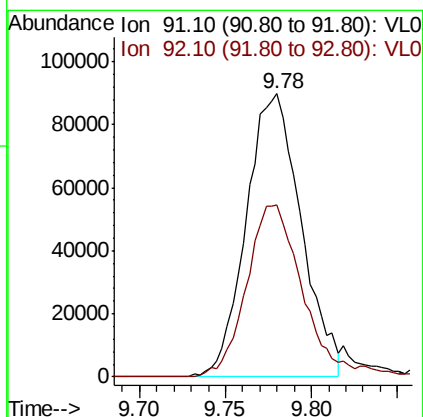
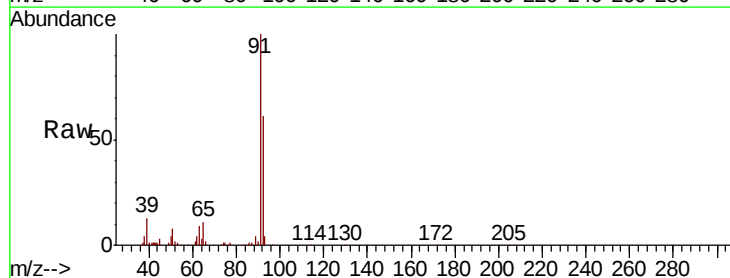
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT2-2021

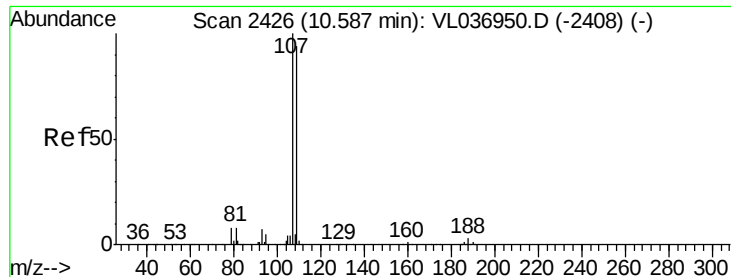
Tot Ion:164 Resp: 32235  
Ion Ratio Lower Upper  
164 100  
166 123.9 105.5 158.3  
129 104.1 81.8 122.8  
131 108.5 81.2 121.8



#53  
Toluene  
Concen: 0.529 ppbv  
RT: 9.78 min Scan# 2175  
Delta R.T. -0.00 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

Tgt Ion: 91 Resp: 198828  
Ion Ratio Lower Upper  
91 100  
92 63.8 49.5 74.3





#54

1,2-Dibromoethane

Concen: 0.268 ppbv

RT: 10.58 min Scan# 2424

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

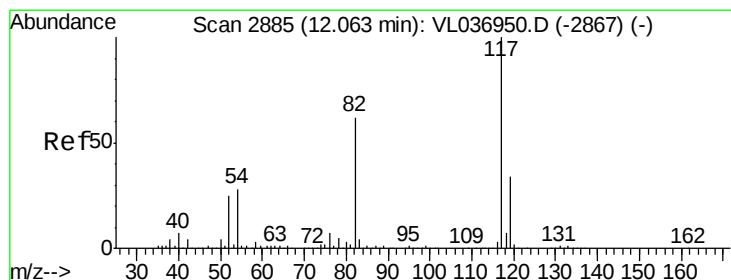
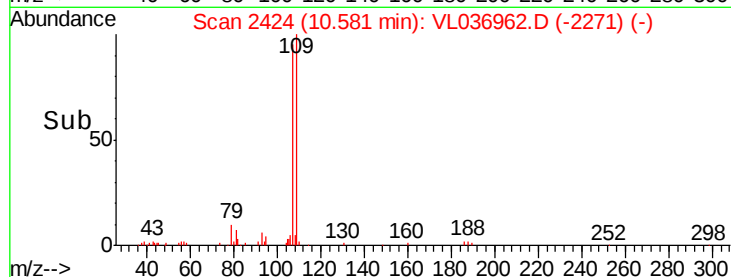
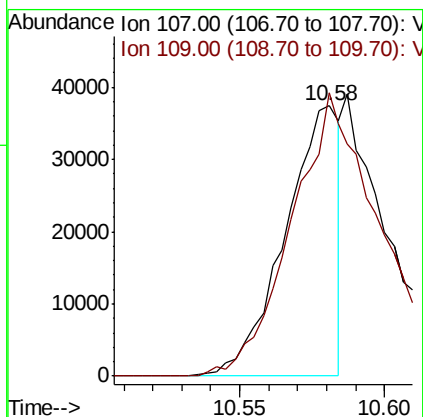
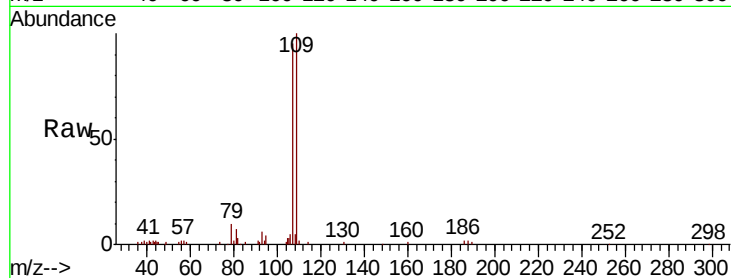
LOQ-AIR-02-QT2-2021

Tot Ion:107 Resp: 48559

Ion Ratio Lower Upper

107 100

109 104.8 75.0 112.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

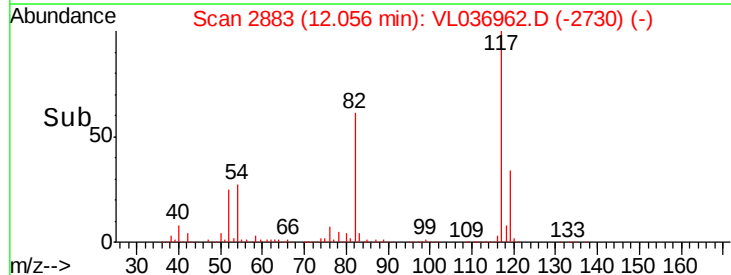
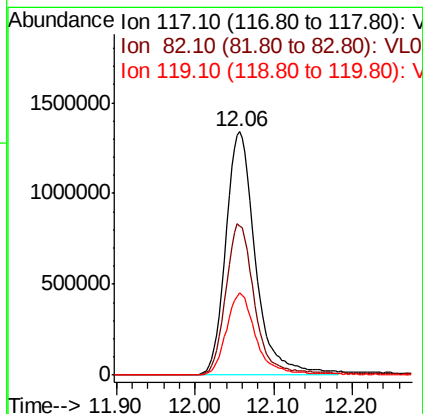
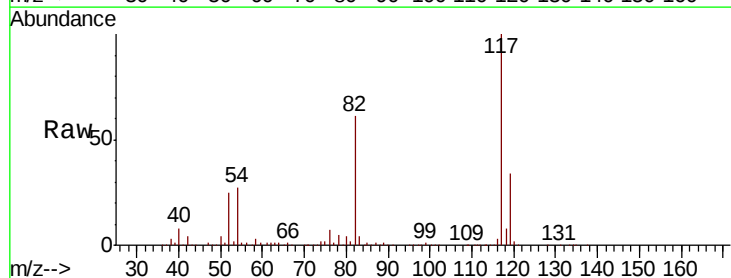
Tgt Ion:117 Resp: 3512073

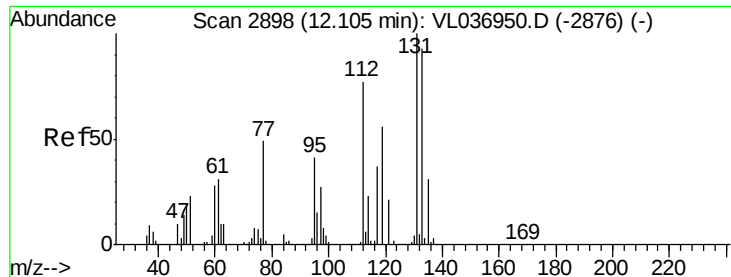
Ion Ratio Lower Upper

117 100

82 62.5 52.6 79.0

119 34.7 46.6 70.0#

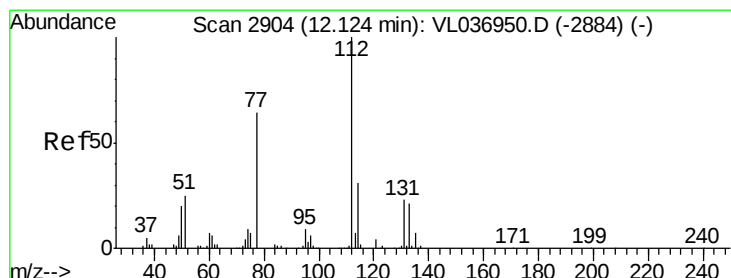
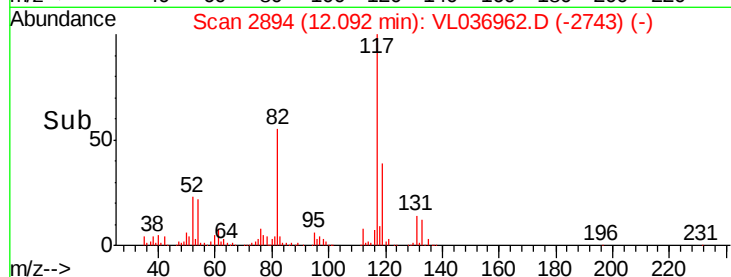
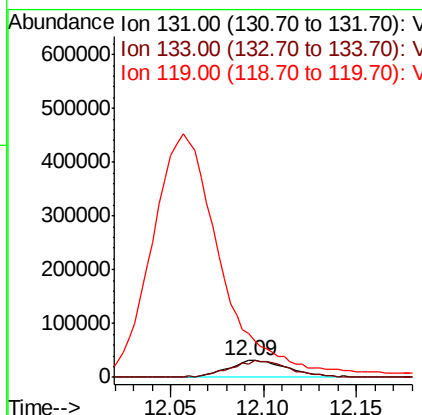
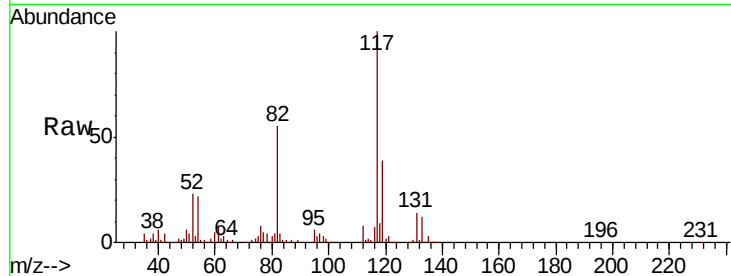




#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 0.458 ppbv  
 RT: 12.09 min Scan# 2894  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

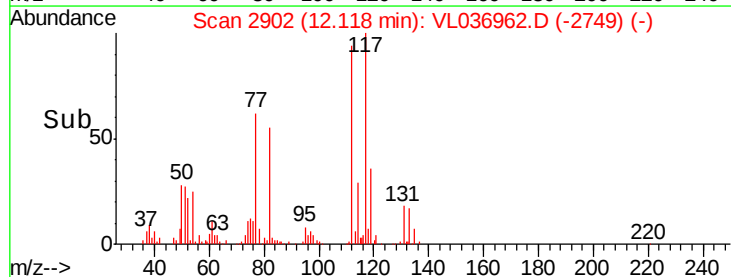
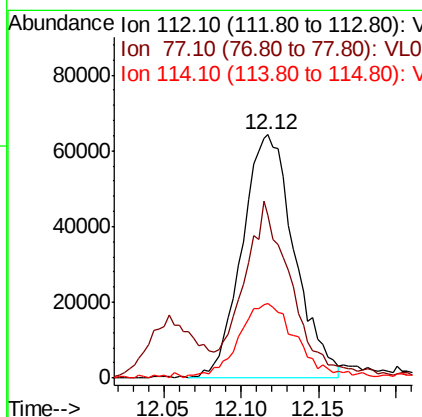
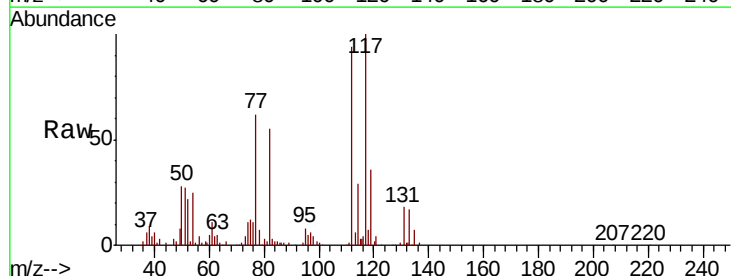
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

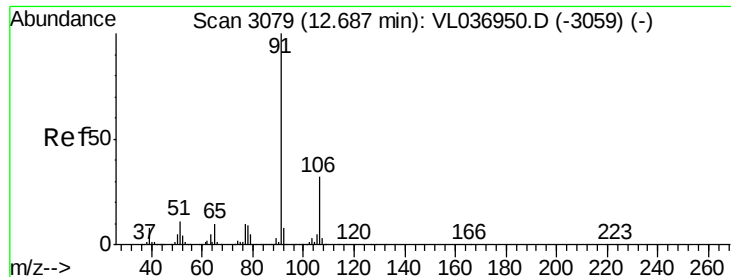
Tot Ion:131 Resp: 67707  
 Ion Ratio Lower Upper  
 131 100  
 133 107.6 76.9 115.3  
 119 0.0 120.2 180.4#



#57  
 Chlorobenzene  
 Concen: 0.554 ppbv  
 RT: 12.12 min Scan# 2902  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

Tgt Ion:112 Resp: 150986  
 Ion Ratio Lower Upper  
 112 100  
 77 61.8 51.0 76.6  
 114 29.9 28.3 34.5





#58

Ethyl Benzene

Concen: 0.515 ppbv

RT: 12.68 min Scan# 3078

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

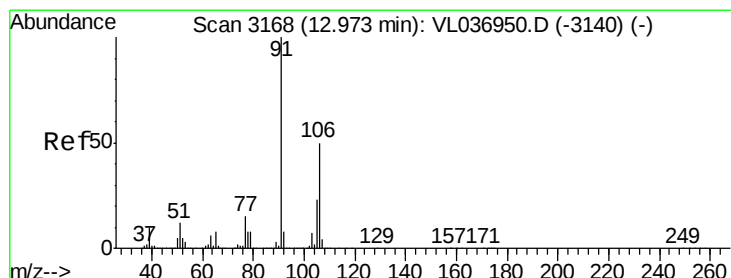
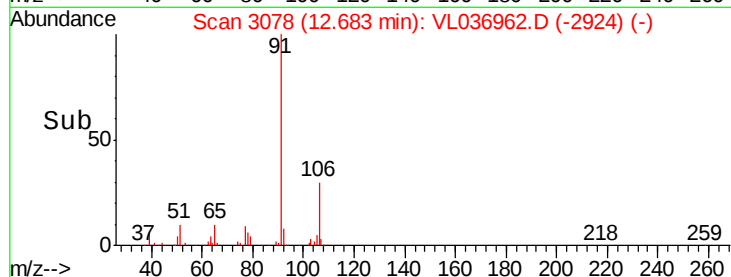
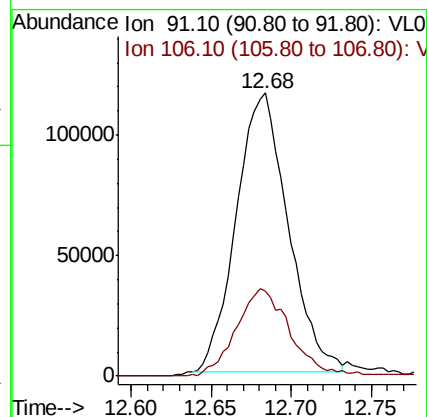
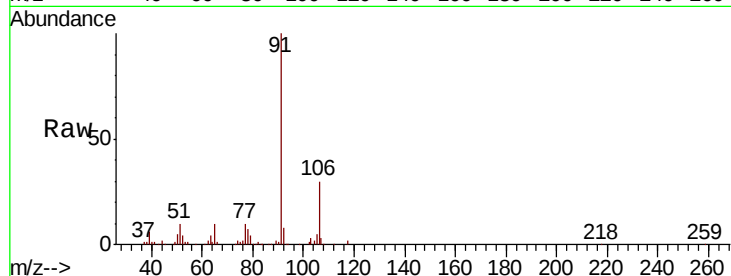
LOQ-AIR-02-QT2-2021

Tot Ion: 91 Resp: 255480

Ion Ratio Lower Upper

91 100

106 30.2 25.6 38.4



#59

m/p-Xylene

Concen: 0.570 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.01 min

Lab File: VL036962.D

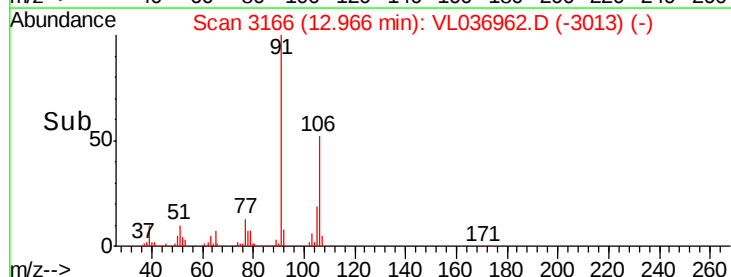
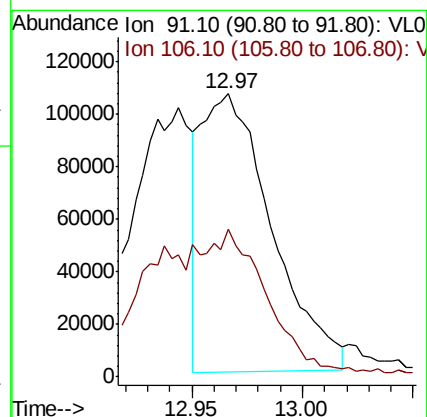
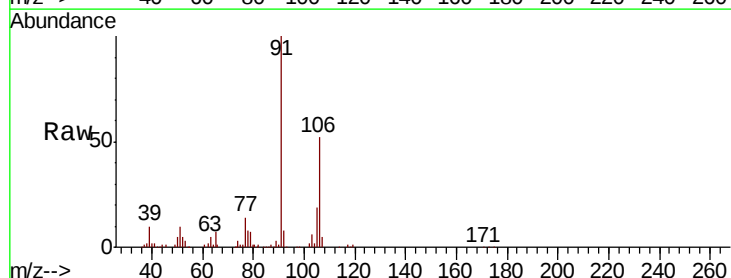
Acq: 18 May 2021 10:47

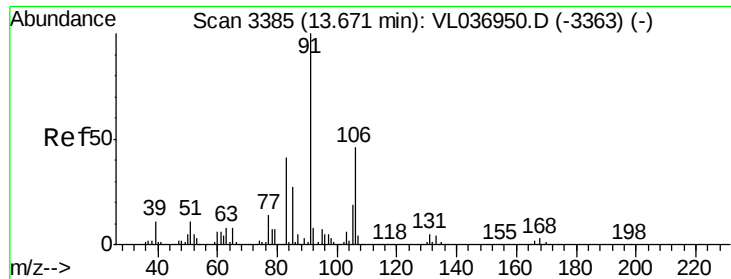
Tgt Ion: 91 Resp: 233486

Ion Ratio Lower Upper

91 100

106 92.2 37.4 56.2#

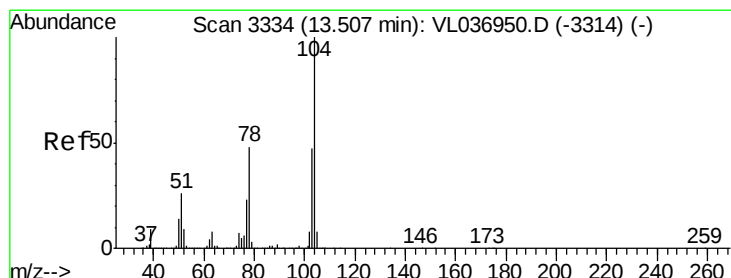
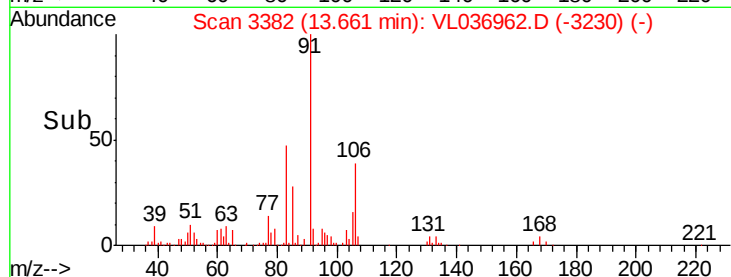
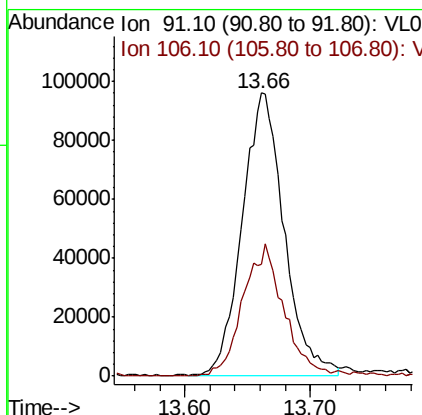
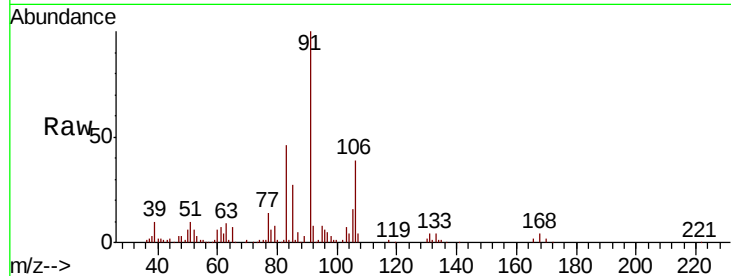




#60  
o-Xylene  
Concen: 0.568 ppbv  
RT: 13.66 min Scan# 3382  
Delta R.T. -0.01 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

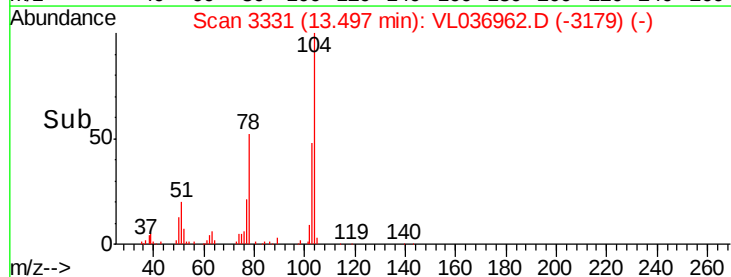
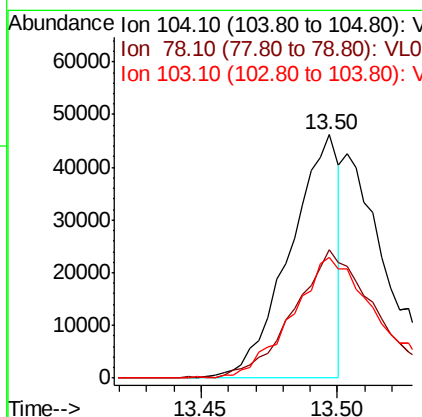
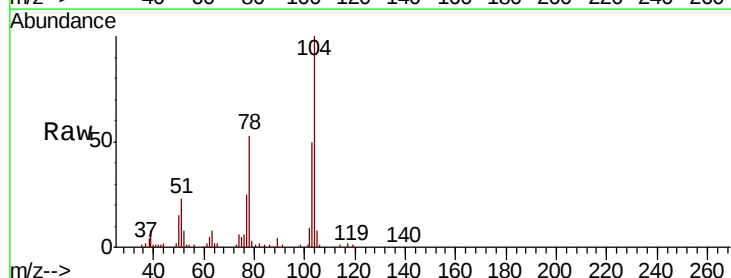
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT2-2021

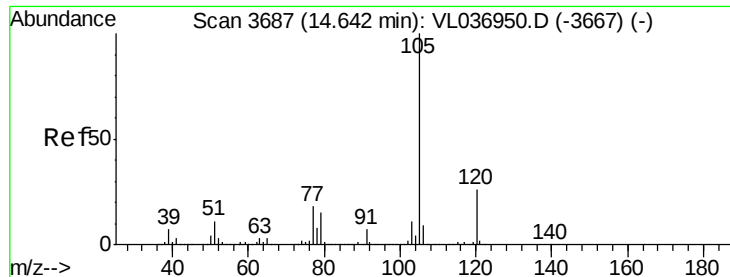
Tot Ion: 91 Resp: 221896  
Ion Ratio Lower Upper  
91 100  
106 47.1 23.4 70.3



#61  
Styrene  
Concen: 0.262 ppbv  
RT: 13.50 min Scan# 3331  
Delta R.T. -0.01 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

Tgt Ion:104 Resp: 57662  
Ion Ratio Lower Upper  
104 100  
78 94.5 39.0 58.6#  
103 90.3 38.0 57.0#





#62

Isopropylbenzene

Concen: 0.541 ppbv

RT: 14.64 min Scan# 3686

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

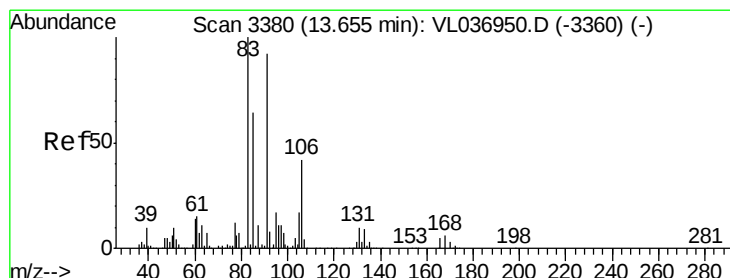
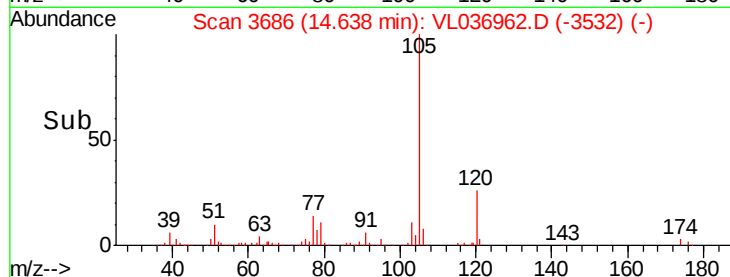
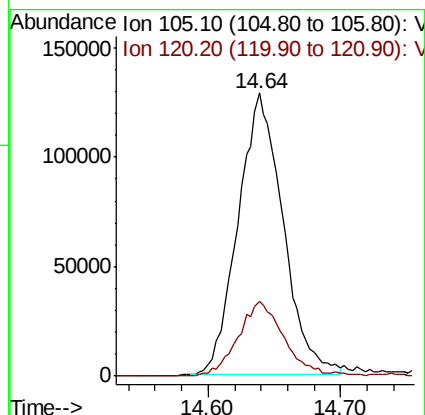
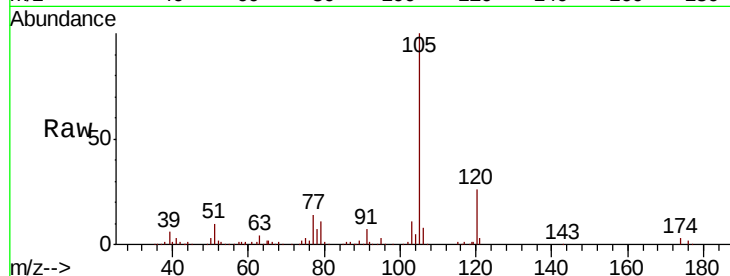
LOQ-AIR-02-QT2-2021

Tot Ion:105 Resp: 303709

Ion Ratio Lower Upper

105 100

120 27.7 21.7 32.5



#63

1,1,2,2-Tetrachloroethane

Concen: 0.240 ppbv

RT: 13.64 min Scan# 3377

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

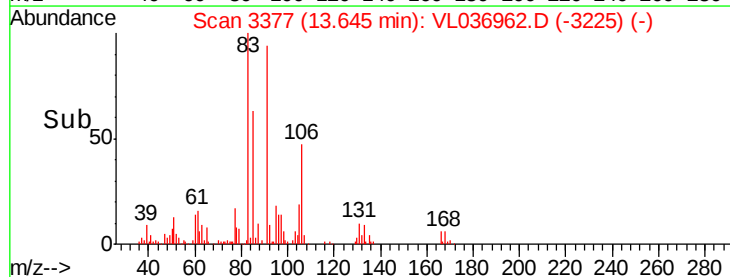
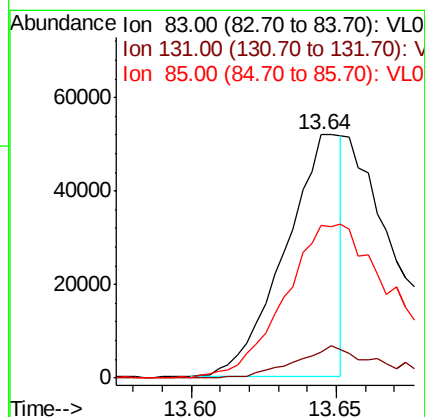
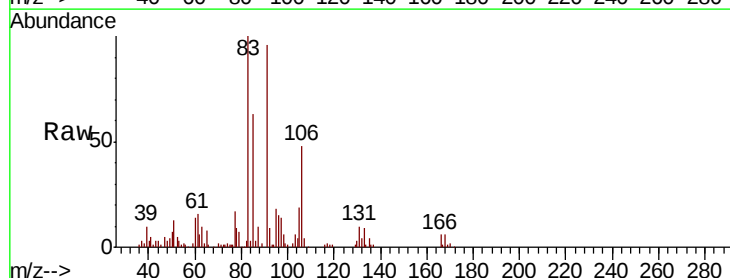
Tgt Ion: 83 Resp: 70117

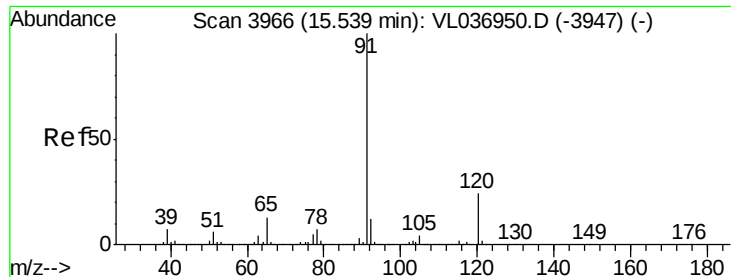
Ion Ratio Lower Upper

83 100

131 22.2 5.0 15.0#

85 135.1 32.9 98.6#





#64

n-propylbenzene

Concen: 0.322 ppbv

RT: 15.53 min Scan# 3963

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

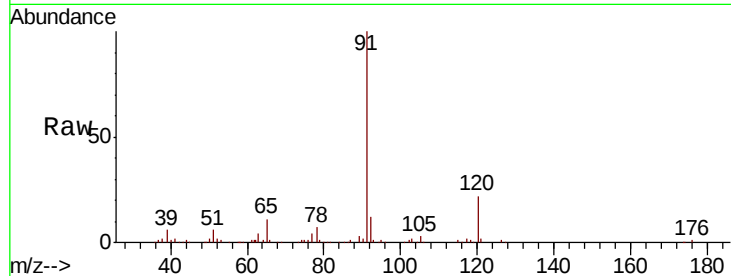
LOQ-AIR-02-QT2-2021

Tot Ion:120 Resp: 46658

Ion Ratio Lower Upper

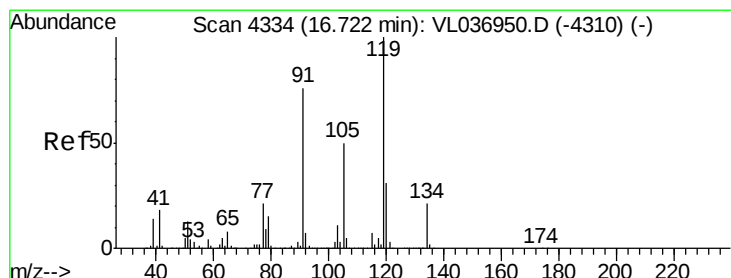
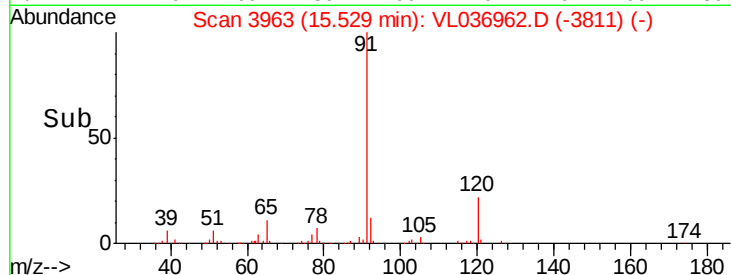
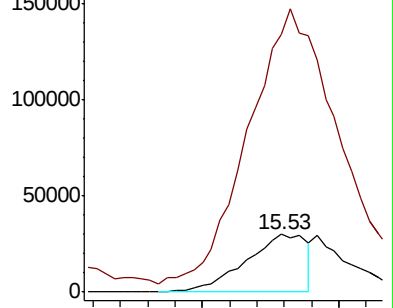
120 100

91 784.1 343.8 515.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.573 ppbv

RT: 16.72 min Scan# 4333

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

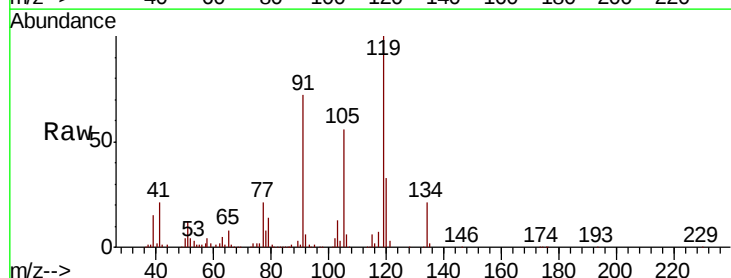
Tgt Ion:119 Resp: 290523

Ion Ratio Lower Upper

119 100

91 79.7 61.9 92.9

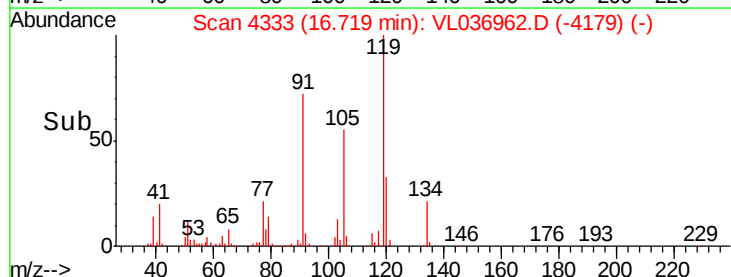
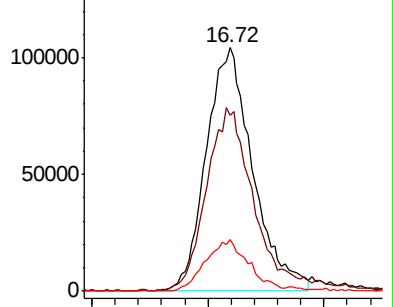
134 20.5 16.2 24.4

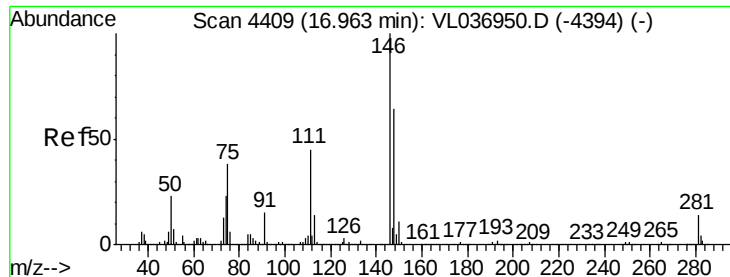


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#66

Benzyl Chloride

Concen: 0.075 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. -0.17 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

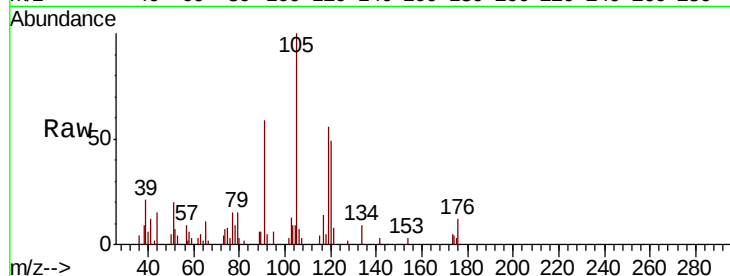
Tot Ion: 91 Resp: 2117

Ion Ratio Lower Upper

91 100

126 120.0 16.5 24.7#

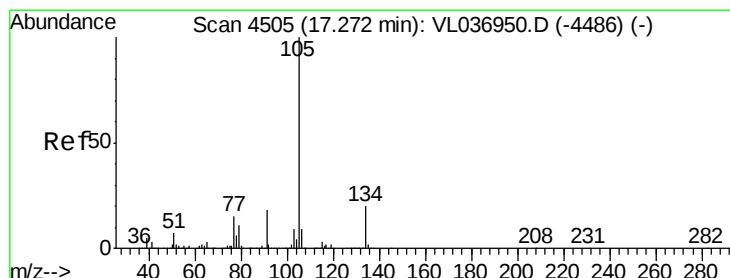
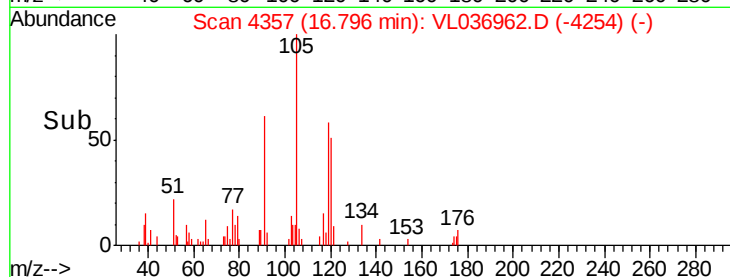
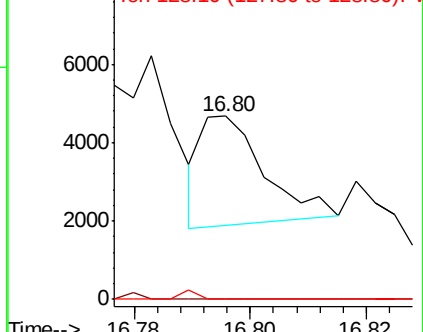
128 33.0 5.5 8.3#



Abundance Ion 91.10 (90.80 to 91.80): VL036950.D (-4394) (-)

Ion 126.10 (125.80 to 126.80): VL036950.D (-4394) (-)

Ion 128.10 (127.80 to 128.80): VL036950.D (-4394) (-)



#67

sec-Butylbenzene

Concen: 0.546 ppbv

RT: 17.26 min Scan# 4502

Delta R.T. -0.01 min

Lab File: VL036962.D

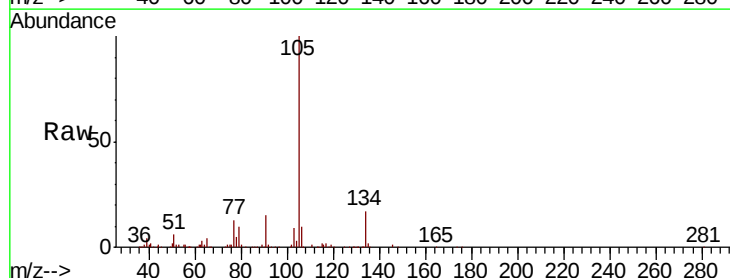
Acq: 18 May 2021 10:47

Tgt Ion: 105 Resp: 377671

Ion Ratio Lower Upper

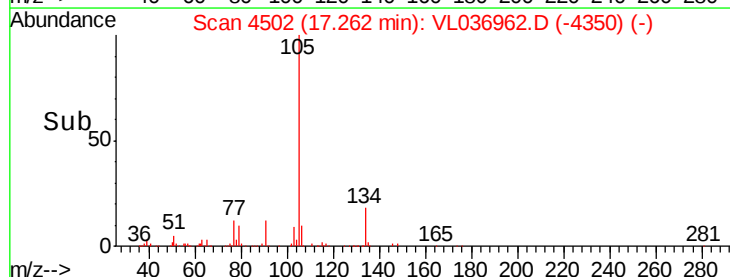
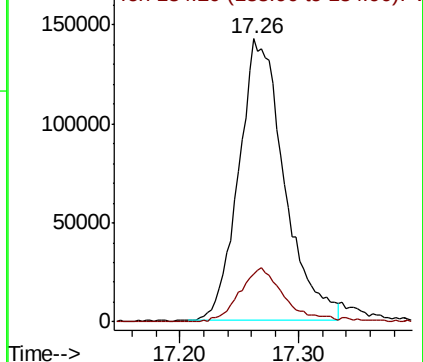
105 100

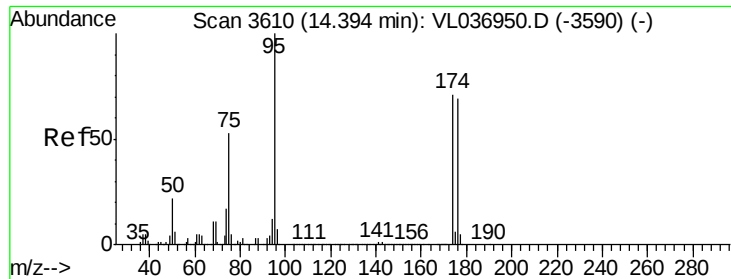
134 19.7 15.6 23.4



Abundance Ion 105.10 (104.80 to 105.80): VL036950.D (-4486) (-)

Ion 134.20 (133.90 to 134.90): VL036950.D (-4486) (-)

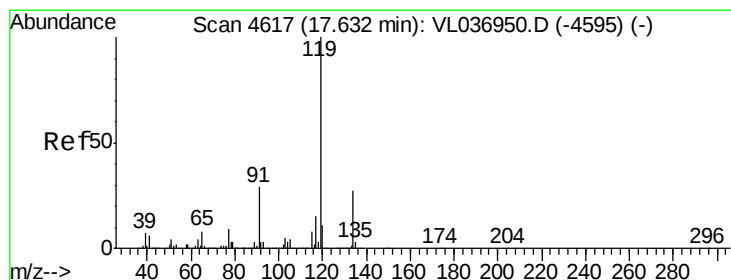
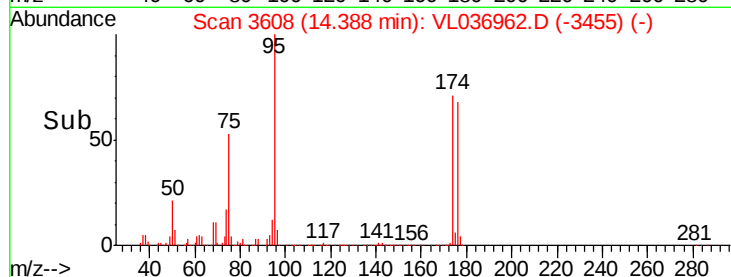
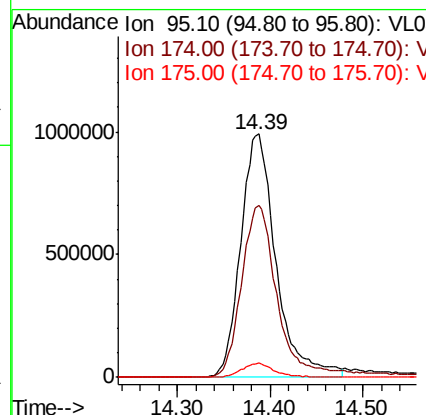
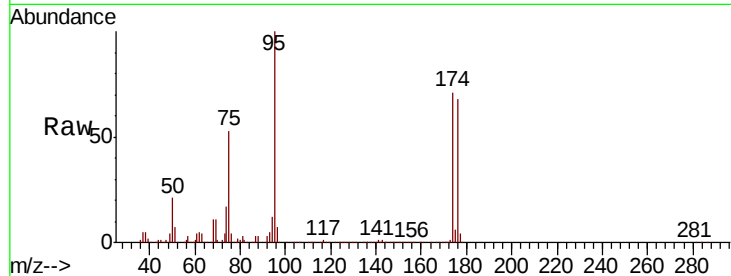




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.949 ppbv  
 RT: 14.39 min Scan# 3608  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

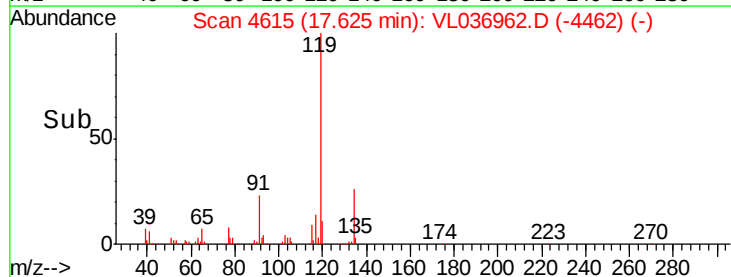
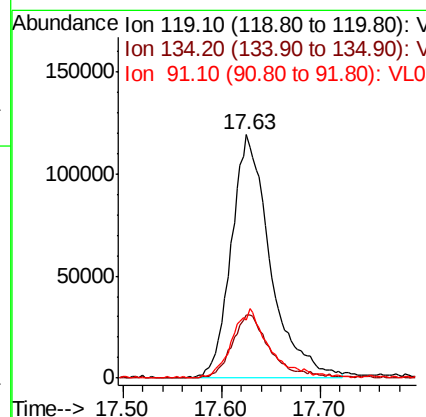
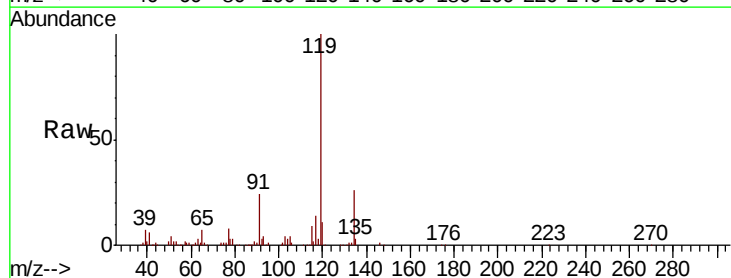
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

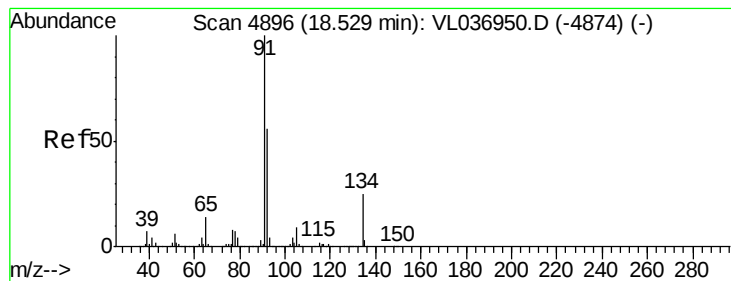
Tot Ion: 95 Resp: 2624865  
 Ion Ratio Lower Upper  
 95 100  
 174 74.7 58.4 87.6  
 175 5.7 4.4 6.6



#69  
 p-Isopropyltoluene  
 Concen: 0.549 ppbv  
 RT: 17.63 min Scan# 4615  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

Tgt Ion: 119 Resp: 326605  
 Ion Ratio Lower Upper  
 119 100  
 134 26.2 21.2 31.8  
 91 26.9 22.2 33.4





#70

n-Butylbenzene

Concen: 0.219 ppbv

RT: 18.52 min Scan# 4894

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

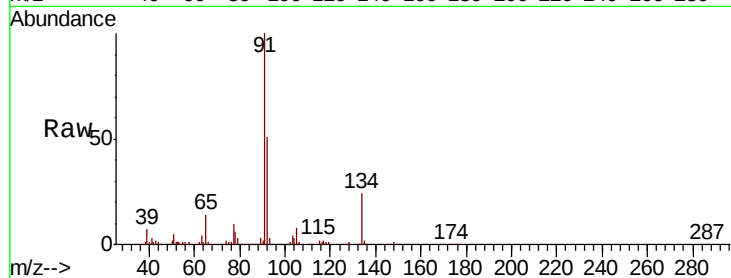
Tot Ion: 91 Resp: 123921

Ion Ratio Lower Upper

91 100

92 0.0 44.6 66.8#

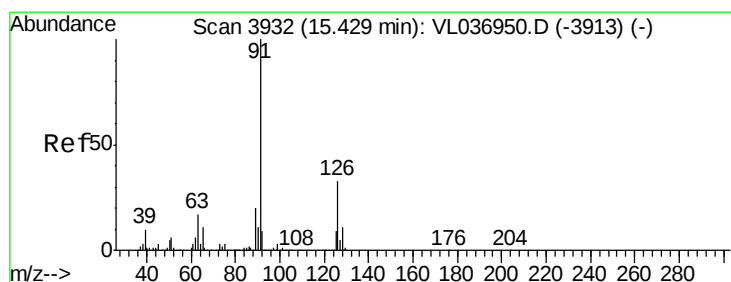
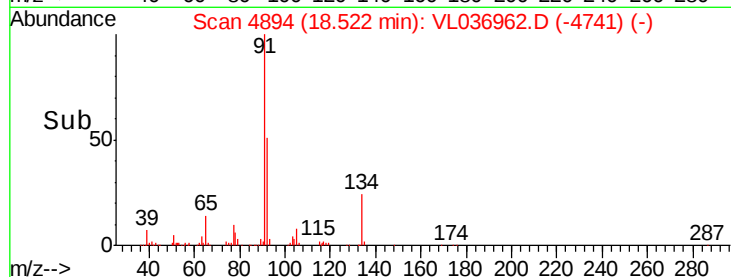
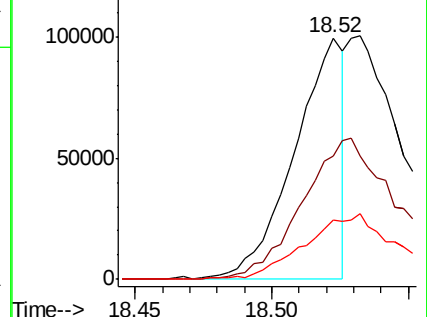
134 0.0 20.2 30.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



#71

2-Chlorotoluene

Concen: 0.540 ppbv

RT: 15.42 min Scan# 3930

Delta R.T. -0.01 min

Lab File: VL036962.D

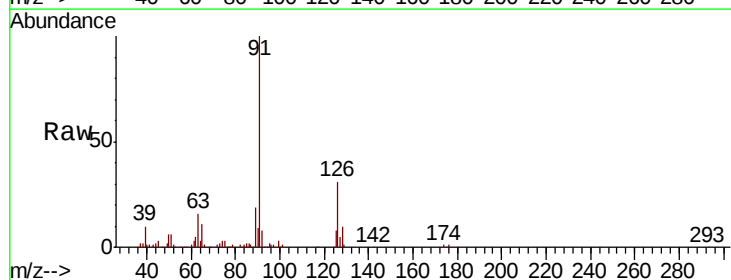
Acq: 18 May 2021 10:47

Tgt Ion: 91 Resp: 219167

Ion Ratio Lower Upper

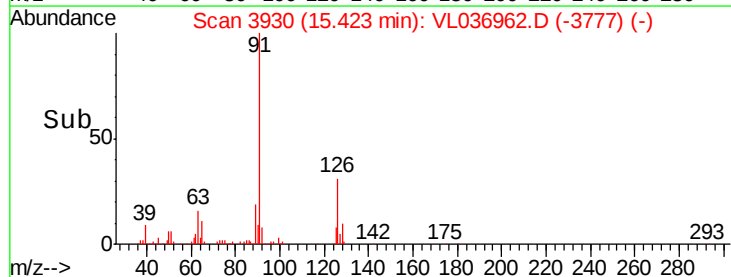
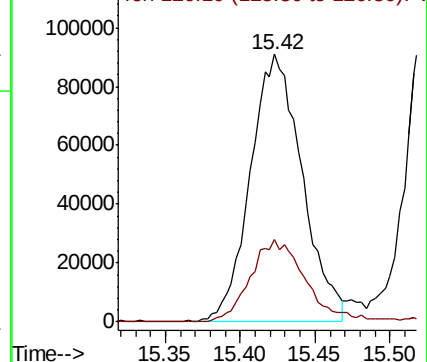
91 100

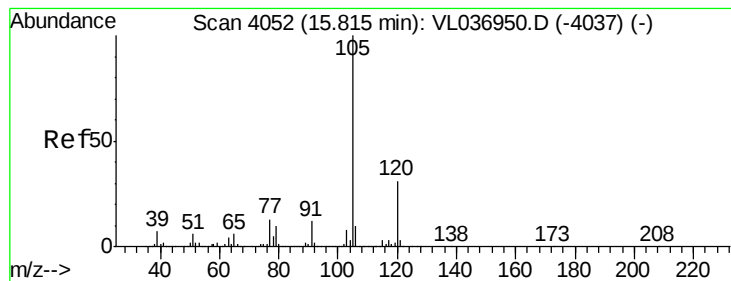
126 33.3 13.1 52.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.499 ppbv

RT: 15.81 min Scan# 4051

Delta R.T. -0.00 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

Tot Ion:105 Resp: 231409

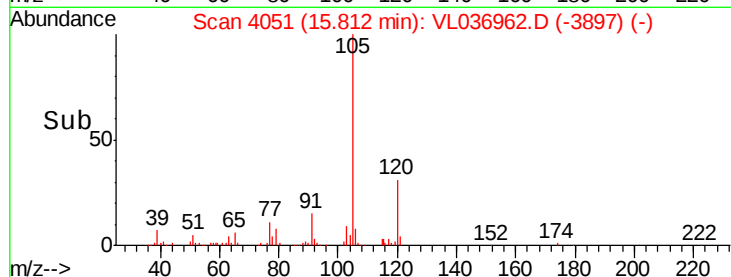
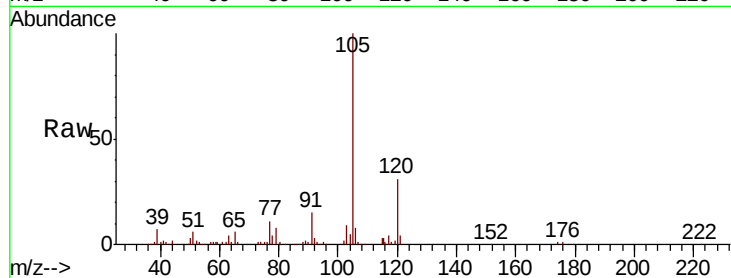
Ion Ratio Lower Upper

105 100

120 33.0 24.6 37.0

91 14.2 9.8 14.6

77 15.3 10.4 15.6

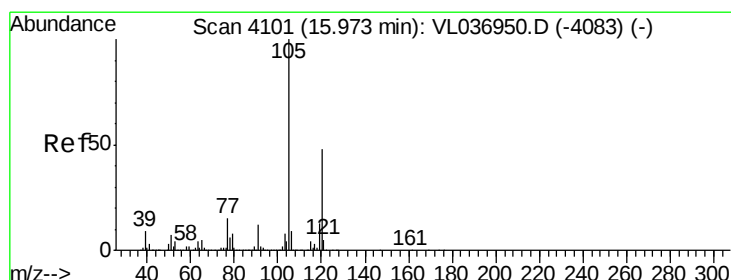
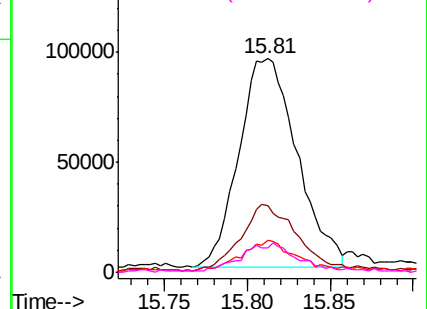


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.515 ppbv

RT: 15.97 min Scan# 4099

Delta R.T. -0.01 min

Lab File: VL036962.D

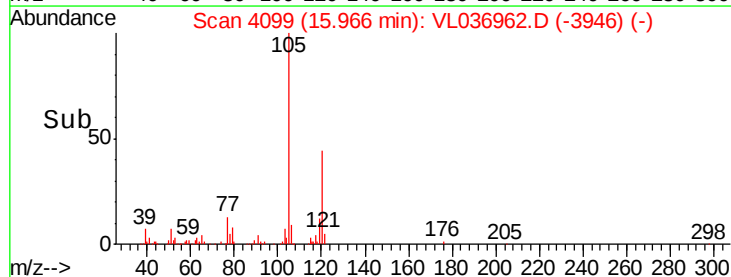
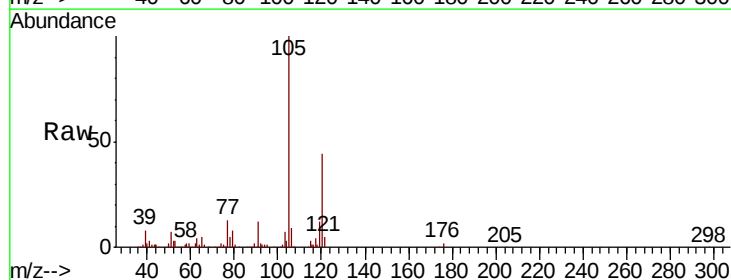
Acq: 18 May 2021 10:47

Tgt Ion:105 Resp: 224414

Ion Ratio Lower Upper

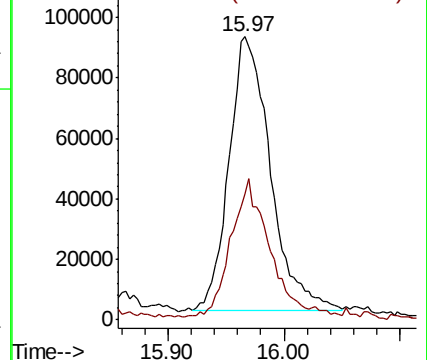
105 100

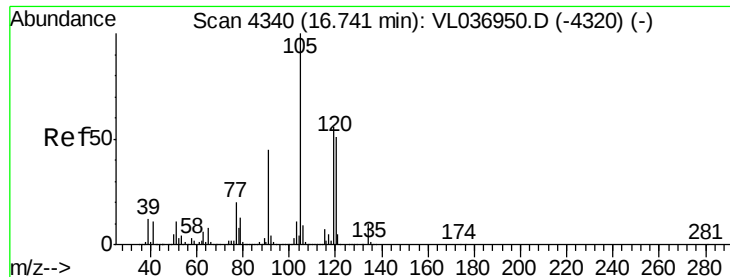
120 44.3 38.6 58.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.553 ppbv

RT: 16.73 min Scan# 4337

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

Tot Ion:105 Resp: 248823

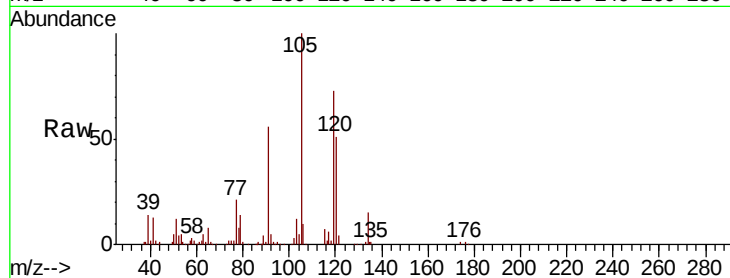
Ion Ratio Lower Upper

105 100

120 50.3 40.6 61.0

91 52.8 37.4 56.0

77 20.7 16.2 24.4

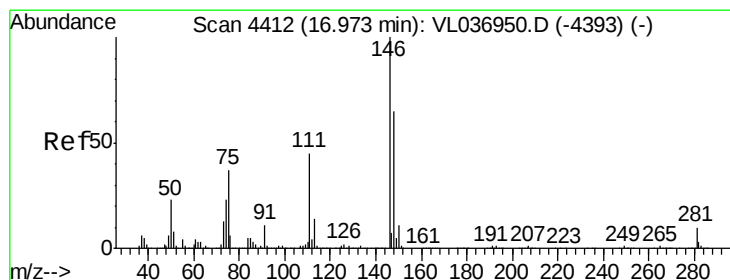
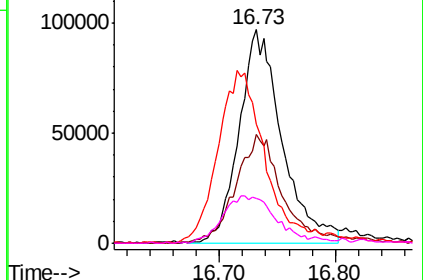
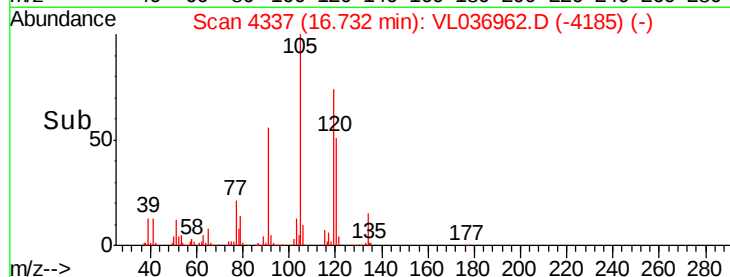


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 0.498 ppbv

RT: 16.97 min Scan# 4410

Delta R.T. -0.01 min

Lab File: VL036962.D

Acq: 18 May 2021 10:47

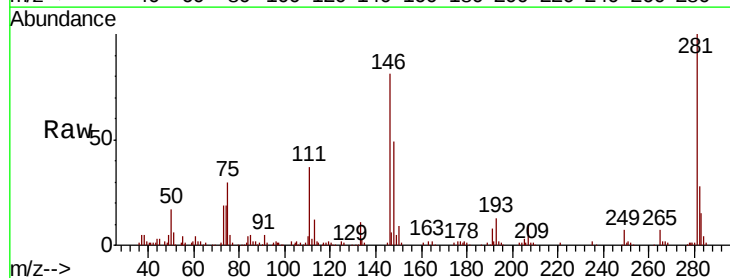
Tgt Ion:146 Resp: 136818

Ion Ratio Lower Upper

146 100

111 49.0 22.2 66.6

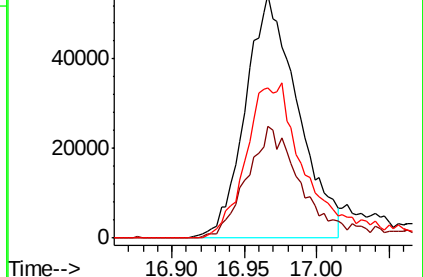
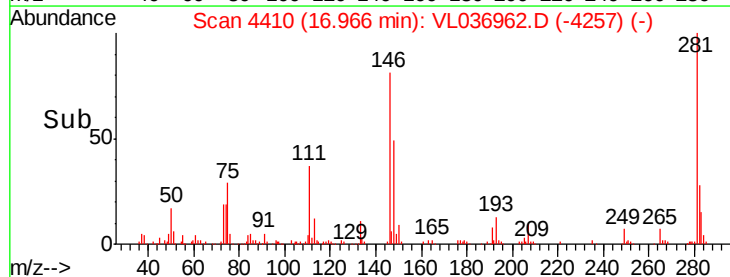
148 72.6 32.3 96.8

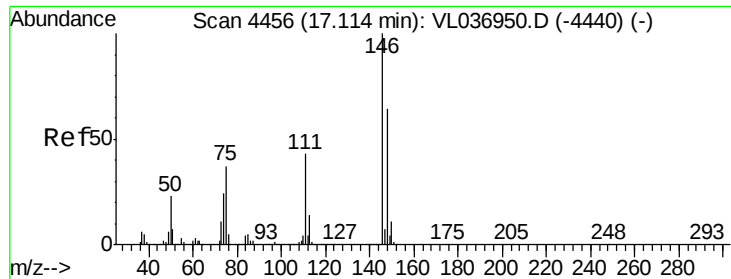


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

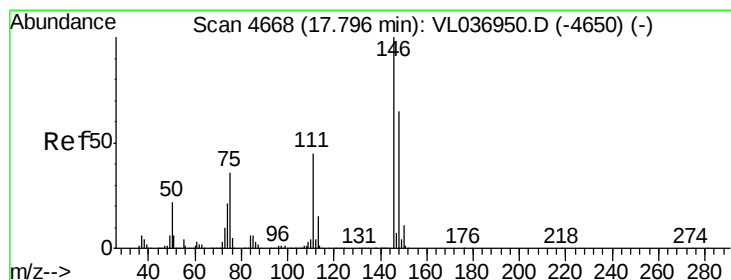
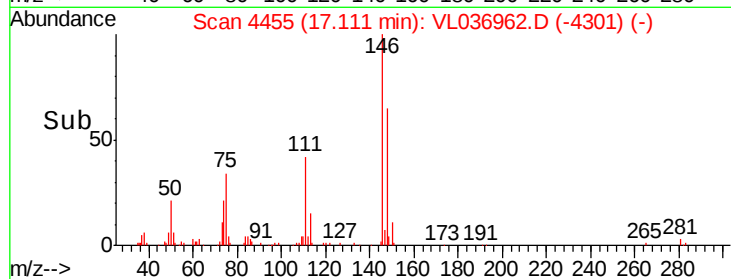
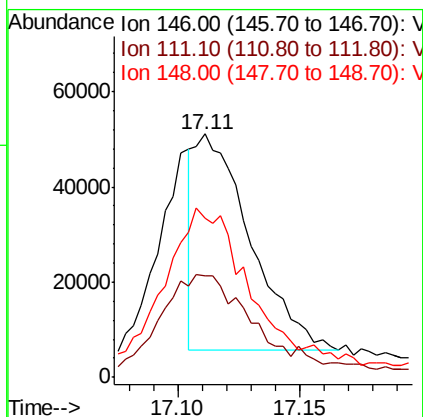
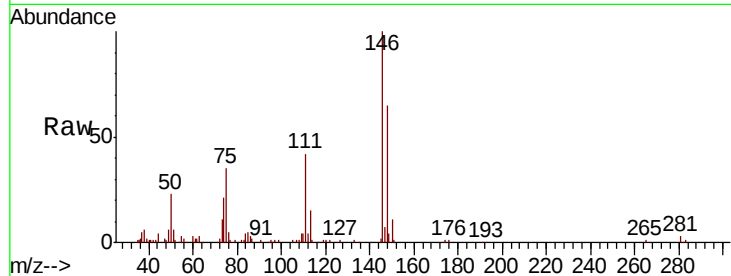




#76  
 1,4-Dichlorobenzene  
 Concen: 0.256 ppbv  
 RT: 17.11 min Scan# 4456  
 Delta R.T. -0.00 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

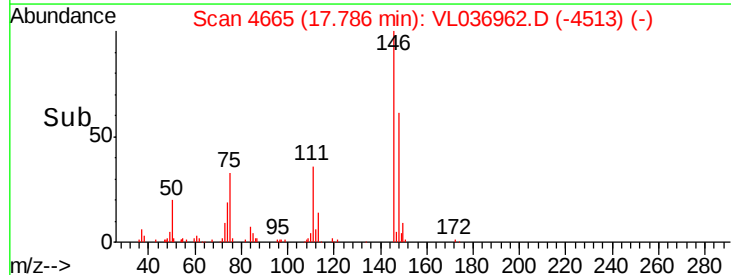
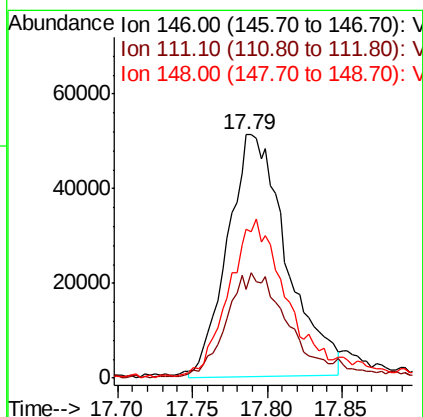
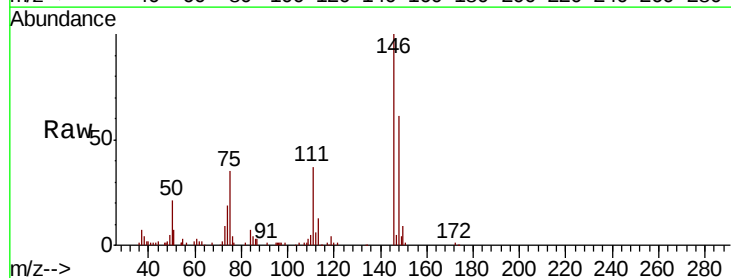
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2021

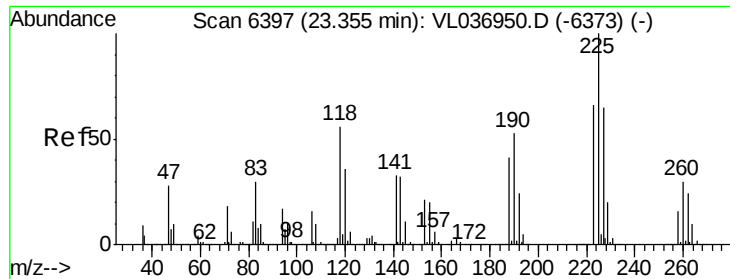
Tot Ion:146 Resp: 71093  
 Ion Ratio Lower Upper  
 146 100  
 111 94.0 22.6 67.7#  
 148 138.3 33.5 100.5#



#77  
 1,2-Dichlorobenzene  
 Concen: 0.510 ppbv  
 RT: 17.79 min Scan# 4665  
 Delta R.T. -0.01 min  
 Lab File: VL036962.D  
 Acq: 18 May 2021 10:47

Tgt Ion:146 Resp: 140653  
 Ion Ratio Lower Upper  
 146 100  
 111 48.7 23.1 69.2  
 148 69.5 32.5 97.4

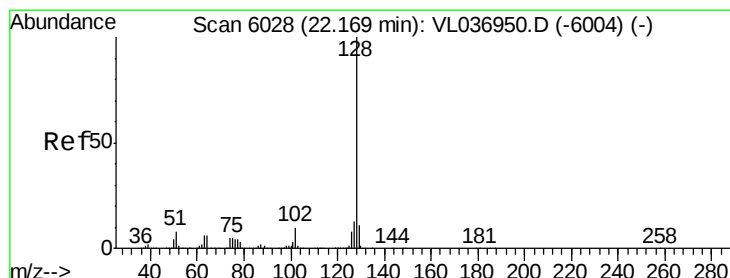
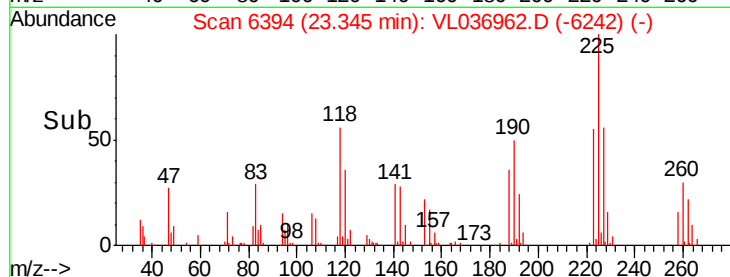
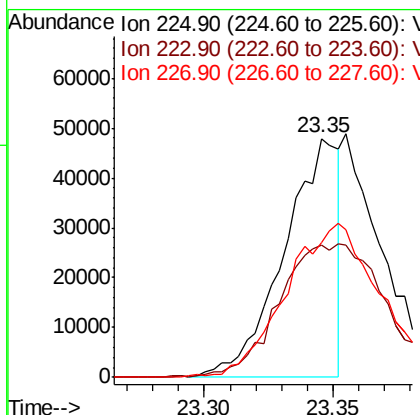
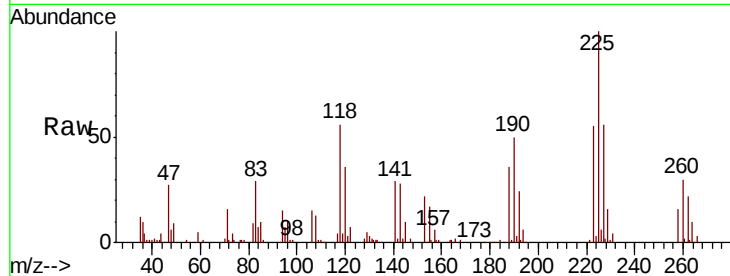




#78  
Hexachloro-1,3-Butadiene  
Concen: 0.319 ppbv  
RT: 23.35 min Scan# 6394  
Delta R.T. -0.01 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

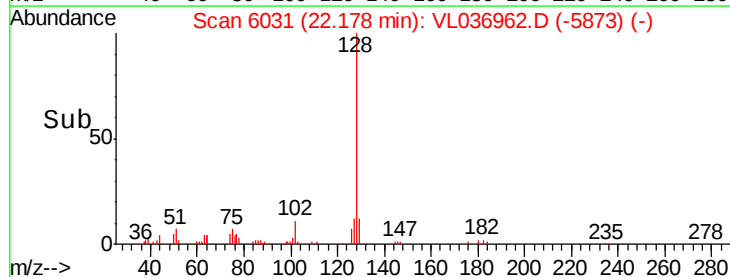
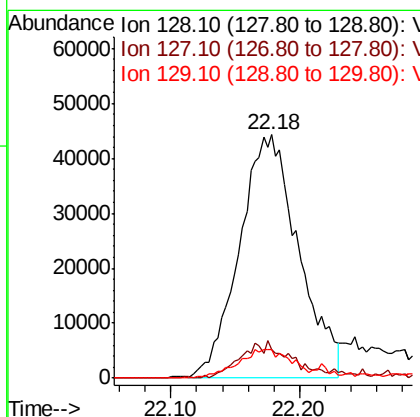
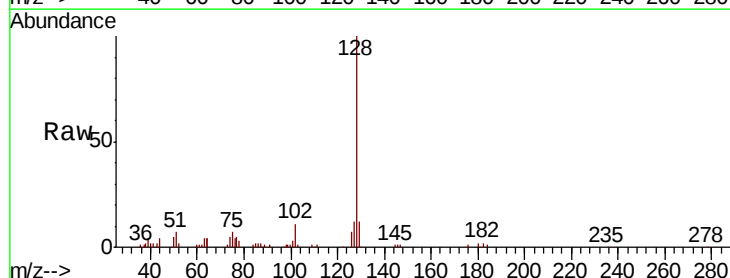
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT2-2021

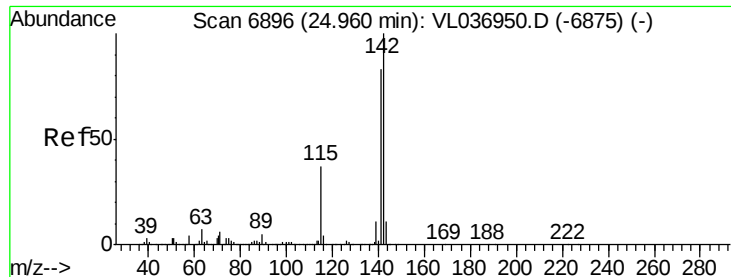
Tot Ion:225 Resp: 70700  
Ion Ratio Lower Upper  
225 100  
223 0.0 51.9 77.9#  
227 0.0 51.8 77.6#



#79  
Naphthalene  
Concen: 0.399 ppbv  
RT: 22.18 min Scan# 6031  
Delta R.T. 0.01 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

Tgt Ion:128 Resp: 141152  
Ion Ratio Lower Upper  
128 100  
127 11.4 10.4 15.6  
129 12.0 9.0 13.6

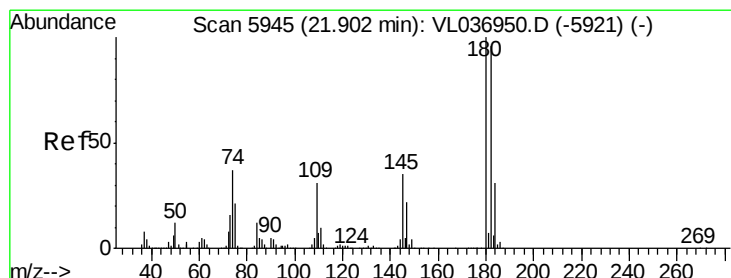
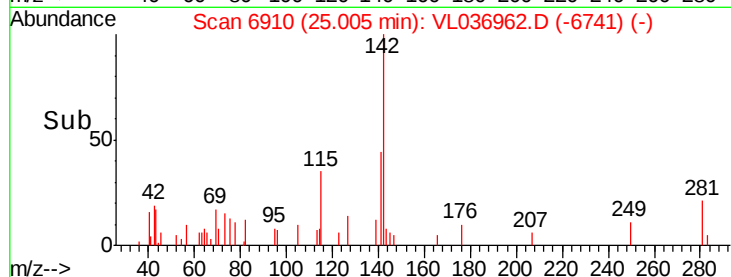
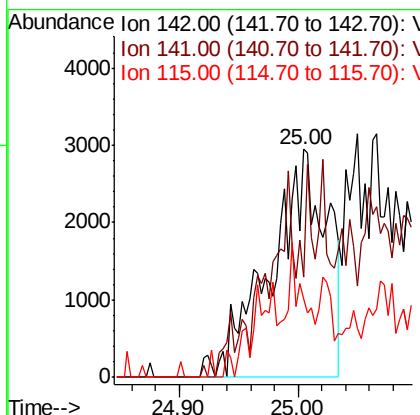
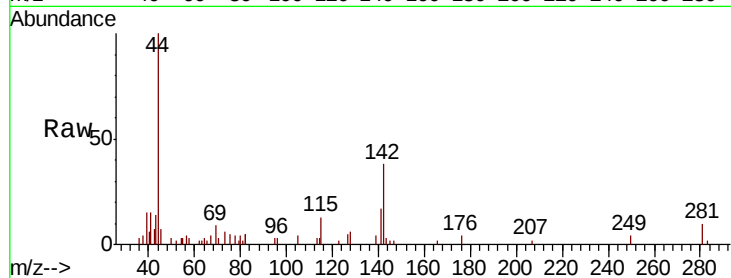




#80  
Naphthalene, 2-methyl-  
Concen: 0.125 ppbv  
RT: 25.00 min Scan# 6910  
Delta R.T. 0.04 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-02-QT2-2021

Tot Ion:142 Resp: 9591  
Ion Ratio Lower Upper  
142 100  
141 51.7 69.3 103.9#  
115 35.4 29.1 43.7



#81  
1,2,4-Trichlorobenzene  
Concen: 0.403 ppbv  
RT: 21.90 min Scan# 5945  
Delta R.T. -0.00 min  
Lab File: VL036962.D  
Acq: 18 May 2021 10:47

Tgt Ion:180 Resp: 86906  
Ion Ratio Lower Upper  
180 100  
182 112.6 81.7 122.5  
184 36.9 24.9 37.3

