

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\  
 Data File : VL037412.D  
 Acq On : 12 Aug 2021 12:55  
 Operator : SY/AP  
 Sample : VSTDIC0.5  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Manual Integrations  
 APPROVED

apatel  
 8/13/2021 11:06:52 AM

Quant Time: Aug 12 14:00:00 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Aug 12 2021  
 QLast Update : Thu Aug 12 11:34:23 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1290976  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3961494  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3441228  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2426823  | 9.46     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 94.60% |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85   | 129235   | 0.554 | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.99 | 51   | 141165   | 0.588 | ppbv   | 98     |
| 4) Chloromethane               | 3.14 | 50   | 47603    | 0.538 | ppbv   | 97     |
| 5) Vinyl Chloride              | 3.26 | 62   | 43833    | 0.485 | ppbv # | 82     |
| 6) Bromomethane                | 3.47 | 94   | 27247m   | 0.550 | ppbv   |        |
| 7) Chloroethane                | 3.56 | 64   | 17366m   | 0.562 | ppbv   |        |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85   | 121459   | 0.597 | ppbv   | 96     |
| 9) Propene                     | 3.01 | 41   | 47765m   | 0.584 | ppbv   |        |
| 10) Heptane                    | 8.12 | 43   | 104998m  | 0.543 | ppbv   |        |
| 11) Trichlorofluoromethane     | 3.95 | 101  | 116088   | 0.592 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101  | 77710    | 0.557 | ppbv   | 87     |
| 13) Ethanol                    | 3.64 | 45   | 5703m    | 0.578 | ppbv   |        |
| 14) Bromoethene                | 3.74 | 108  | 33401    | 0.523 | ppbv   | 89     |
| 15) Acetone                    | 3.87 | 43   | 75251m   | 0.612 | ppbv   |        |
| 16) 1,3-Butadiene              | 3.33 | 39   | 47571m   | 0.551 | ppbv   |        |
| 17) tert-Butyl alcohol         | 4.33 | 59   | 69973m   | 0.636 | ppbv   |        |
| 18) 1,1-Dichloroethene         | 4.29 | 96   | 37829m   | 0.598 | ppbv   |        |
| 19) Isopropyl Alcohol          | 4.01 | 45   | 42833m   | 0.605 | ppbv   |        |
| 20) Methylene Chloride         | 4.34 | 84   | 43146m   | 0.646 | ppbv   |        |
| 21) Allyl Chloride             | 4.41 | 41   | 53087m   | 0.550 | ppbv   |        |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96   | 36547m   | 0.611 | ppbv   |        |
| 23) Vinyl Acetate              | 5.08 | 43   | 92475    | 0.468 | ppbv # | 95     |
| 24) 1,1-Dichloroethane         | 5.01 | 63   | 86062    | 0.554 | ppbv   | 97     |
| 25) Ethyl Acetate              | 5.69 | 43   | 161225   | 0.512 | ppbv # | 95     |
| 26) Hexane                     | 5.69 | 57   | 95192m   | 0.597 | ppbv   |        |
| 27) Carbon Disulfide           | 4.55 | 76   | 55852    | 0.418 | ppbv # | 90     |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73   | 84782    | 0.498 | ppbv   | 92     |
| 29) Chloroform                 | 5.75 | 83   | 127893   | 0.559 | ppbv   | 95     |
| 30) Cyclohexane                | 7.13 | 84   | 69785m   | 0.529 | ppbv   |        |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61   | 70484    | 0.493 | ppbv   | 92     |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97   | 110710   | 0.499 | ppbv   | 96     |
| 34) 2-Butanone                 | 5.27 | 43   | 92589m   | 0.615 | ppbv   |        |
| 35) Carbon Tetrachloride       | 7.01 | 117  | 112623   | 0.510 | ppbv   | 98     |
| 36) Benzene                    | 6.89 | 78   | 171615   | 0.546 | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.30 | 62   | 88394m   | 0.550 | ppbv   |        |
| 38) Trichloroethene            | 7.83 | 130  | 70149m   | 0.524 | ppbv   |        |
| 39) 1,2-Dichloropropane        | 7.62 | 63   | 68152m   | 0.593 | ppbv   |        |
| 40) 1,4-Dioxane                | 7.89 | 88   | 15255m   | 0.498 | ppbv   |        |
| 41) Tetrahydrofuran            | 6.09 | 42   | 35817m   | 0.506 | ppbv   |        |
| 42) Bromodichloromethane       | 7.79 | 83   | 110692   | 0.487 | ppbv # | 82     |
| 43) Methyl Methacrylate        | 8.02 | 69   | 53796m   | 0.492 | ppbv   |        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\  
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 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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 8/13/2021 11:06:52 AM

Quant Time: Aug 12 14:00:00 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Aug 12 2021  
 QLast Update : Thu Aug 12 11:34:23 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 282553   | 0.539 | ppbv   | 95       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 33868m   | 0.412 | ppbv   |          |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 50335m   | 0.453 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 72880m   | 0.563 | ppbv   |          |
| 48) Dibromochloromethane      | 10.30 | 129  | 87495m   | 0.458 | ppbv   |          |
| 49) Bromoform                 | 13.04 | 173  | 59312m   | 0.395 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 8.77  | 43   | 98206m   | 0.499 | ppbv   |          |
| 51) 2-Hexanone                | 10.18 | 43   | 45594m   | 0.523 | ppbv   |          |
| 52) Tetrachloroethene         | 11.22 | 164  | 67420m   | 0.526 | ppbv   |          |
| 53) Toluene                   | 9.81  | 91   | 190181m  | 0.522 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 93301m   | 0.509 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 64518    | 0.485 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.14 | 112  | 152071m  | 0.573 | ppbv   |          |
| 58) Ethyl Benzene             | 12.71 | 91   | 222976   | 0.485 | ppbv   | 94       |
| 59) m/p-Xylene                | 12.99 | 91   | 420838m  | 1.064 | ppbv   |          |
| 60) o-Xylene                  | 13.68 | 91   | 203266   | 0.554 | ppbv   | 98       |
| 61) Styrene                   | 13.52 | 104  | 86932m   | 0.458 | ppbv   |          |
| 62) Isopropylbenzene          | 14.66 | 105  | 287803   | 0.557 | ppbv   | 96       |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 146458m  | 0.528 | ppbv   |          |
| 64) n-propylbenzene           | 15.55 | 120  | 71724m   | 0.547 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.74 | 119  | 257047   | 0.552 | ppbv   | 94       |
| 66) Benzyl Chloride           | 16.99 | 91   | 9061m    | 0.459 | ppbv   |          |
| 67) sec-Butylbenzene          | 17.28 | 105  | 343911m  | 0.537 | ppbv   |          |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 261088   | 0.505 | ppbv   | 98       |
| 70) n-Butylbenzene            | 18.55 | 91   | 235486   | 0.485 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 198301   | 0.526 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.83 | 105  | 211657   | 0.494 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 220010m  | 0.553 | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene    | 16.76 | 105  | 220699m  | 0.546 | ppbv   |          |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 136334m  | 0.555 | ppbv   |          |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 139259m  | 0.578 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.81 | 146  | 131630m  | 0.556 | ppbv   |          |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 117140m  | 0.618 | ppbv   |          |
| 79) Naphthalene               | 22.20 | 128  | 76336m   | 0.347 | ppbv   |          |
| 80) Naphthalene, 2-methyl-    | 24.99 | 142  | 9795m    | 0.226 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.92 | 180  | 64731m   | 0.429 | ppbv   |          |

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

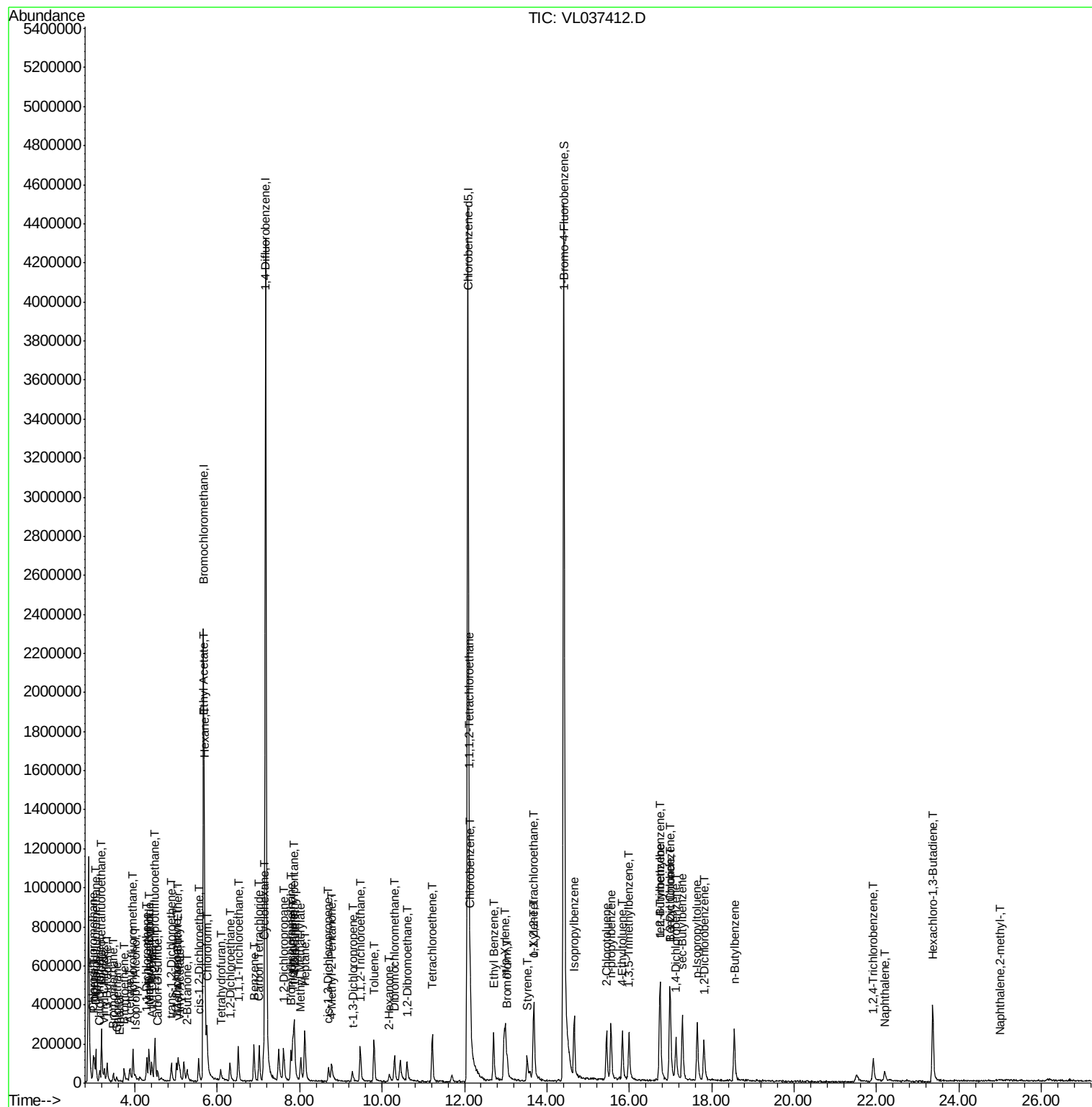
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\  
 Data File : VL037412.D  
 Acq On : 12 Aug 2021 12:55  
 Operator : SY/AP  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

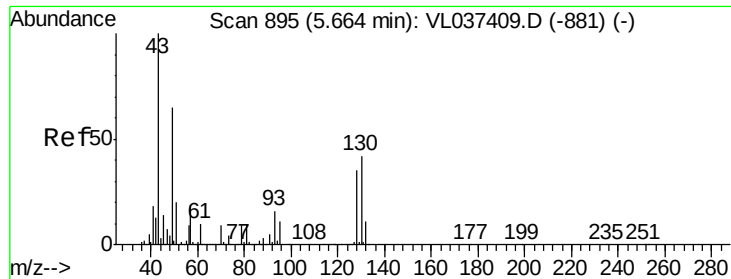
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

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Quant Time: Aug 12 14:00:00 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Aug  
 QLast Update : Thu Aug 12 11:34:23 2021  
 Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1290976

Ion Ratio Lower Upper

49 100

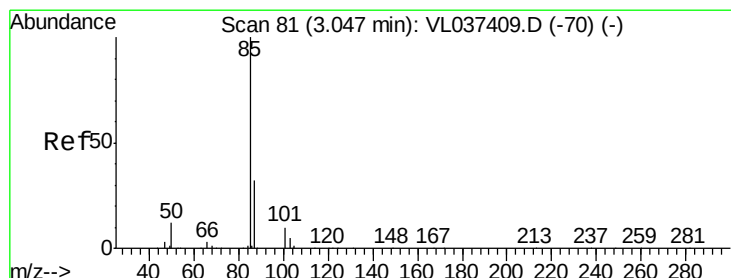
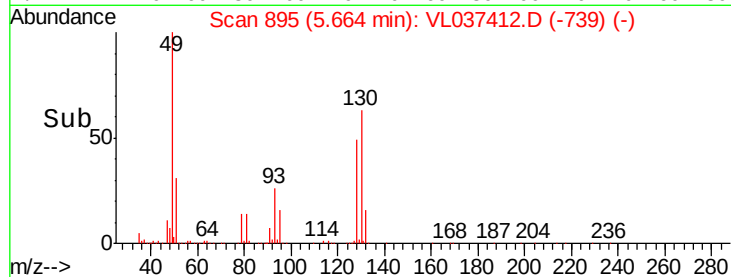
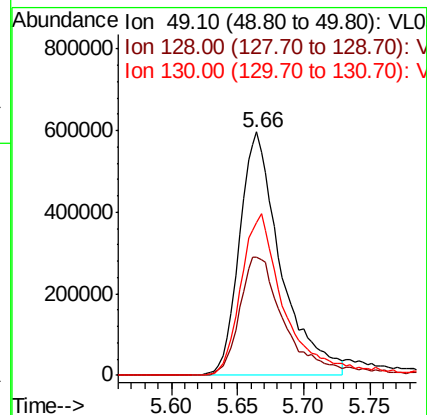
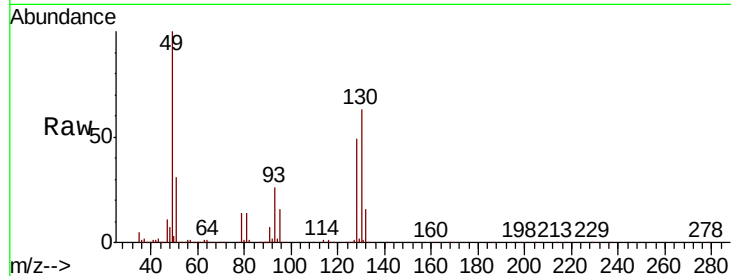
128 56.0 27.9 83.6

130 70.2 34.6 103.8

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 0.554 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL037412.D

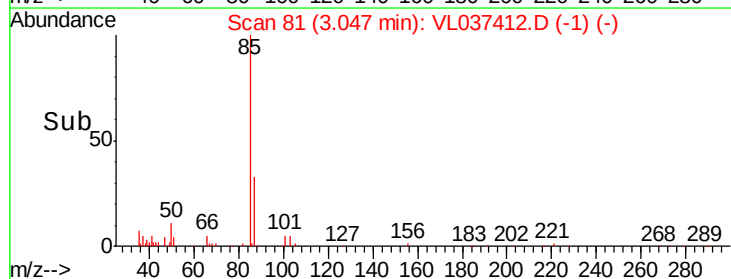
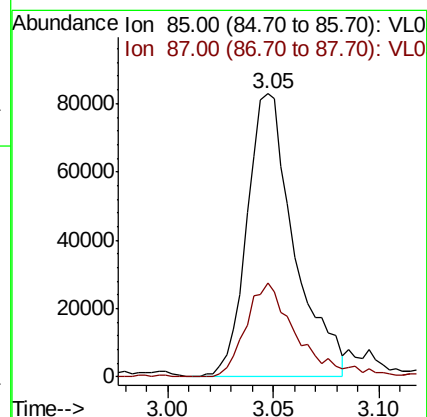
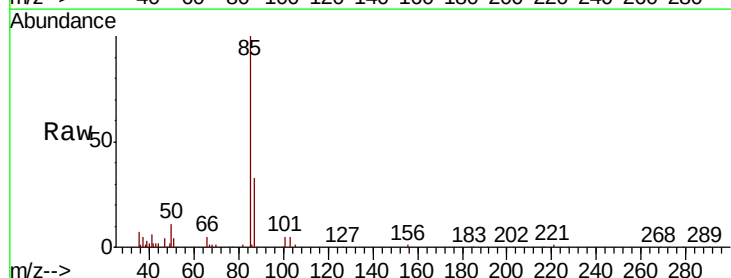
Acq: 12 Aug 2021 12:55

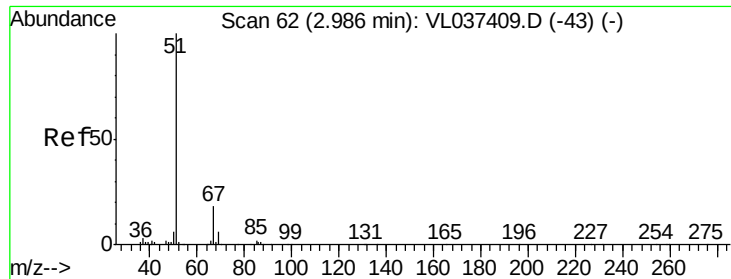
Tgt Ion: 85 Resp: 129235

Ion Ratio Lower Upper

85 100

87 32.6 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.588 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 141165

Ion Ratio Lower Upper

51 100

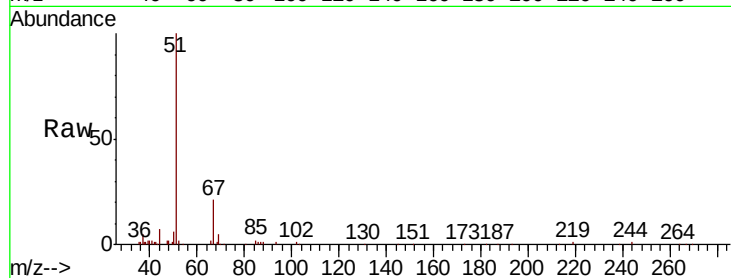
67 17.5 14.7 22.1

Manual Integrations

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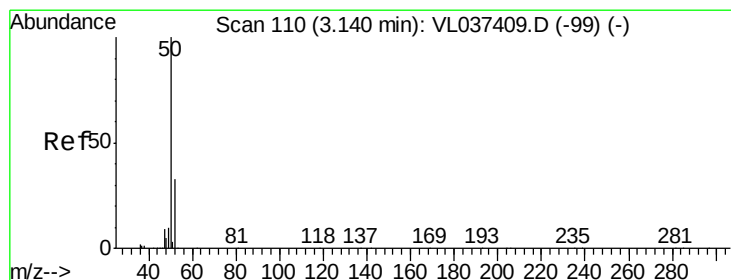
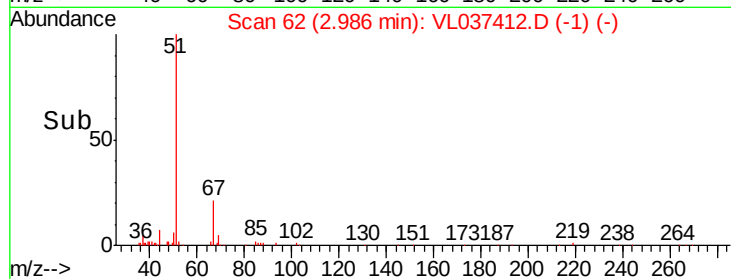
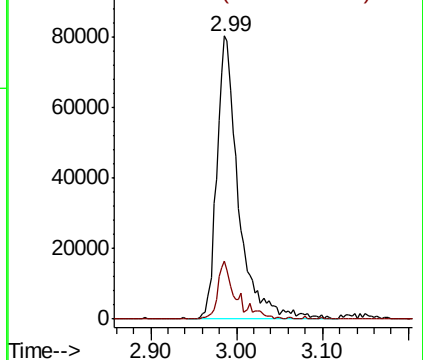
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.538 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL037412.D

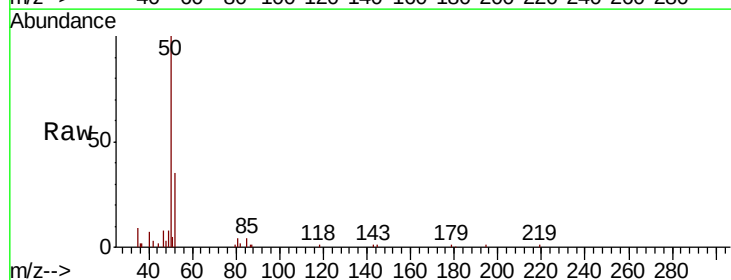
Acq: 12 Aug 2021 12:55

Tgt Ion: 50 Resp: 47603

Ion Ratio Lower Upper

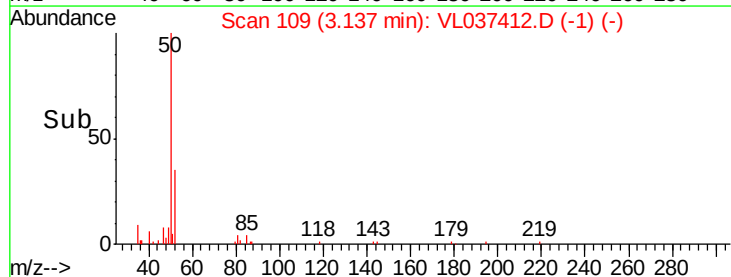
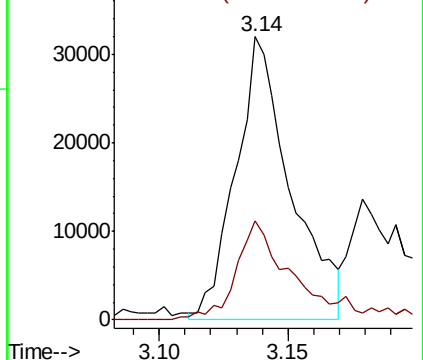
50 100

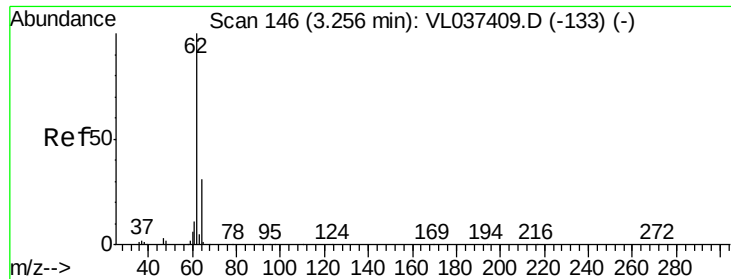
52 34.6 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.485 ppbv

RT: 3.26 min Scan# 146

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 43833

Ion Ratio Lower Upper

62 100

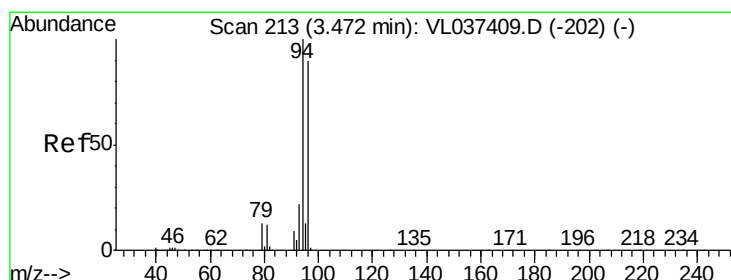
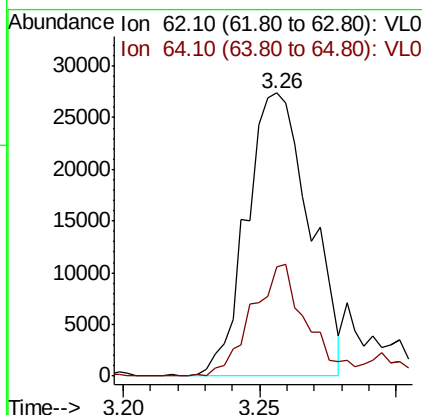
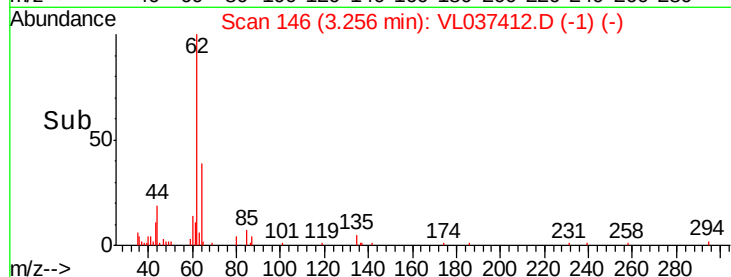
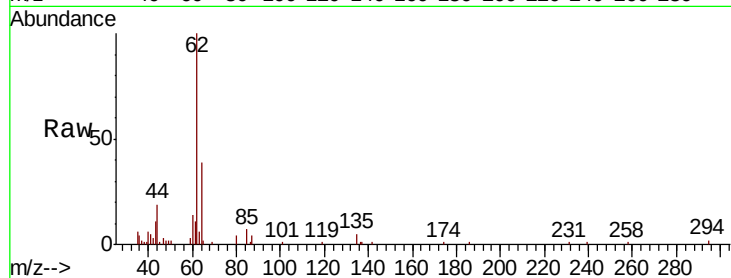
64 41.1 25.0 37.6#

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#6

Bromomethane

Concen: 0.550 ppbv m

RT: 3.47 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL037412.D

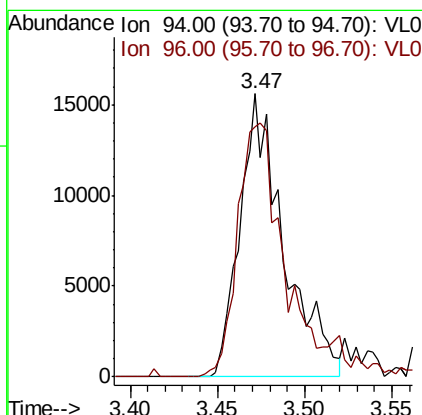
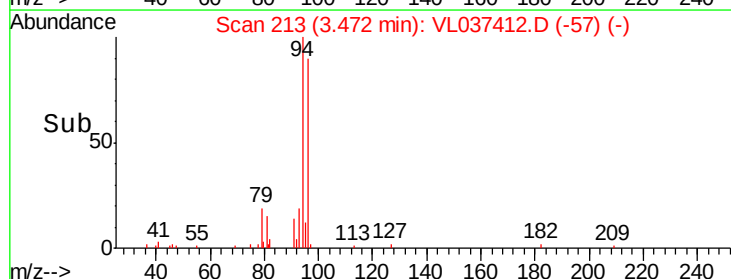
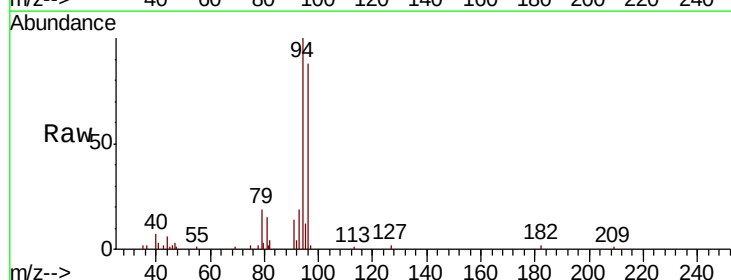
Acq: 12 Aug 2021 12:55

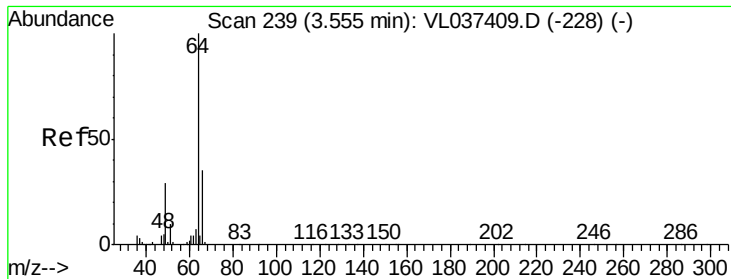
Tgt Ion: 94 Resp: 27247

Ion Ratio Lower Upper

94 100

96 88.4 72.2 108.4





#7

Chloroethane

Concen: 0.562 ppbv m

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 17366

Ion Ratio Lower Upper

64 100

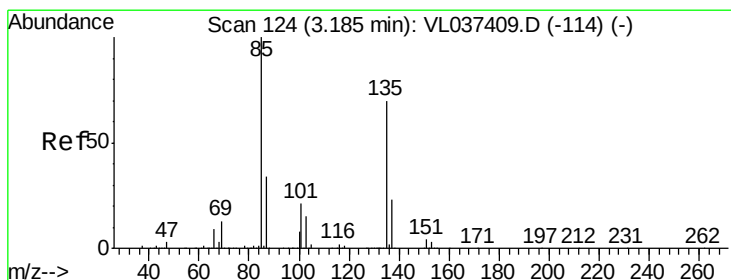
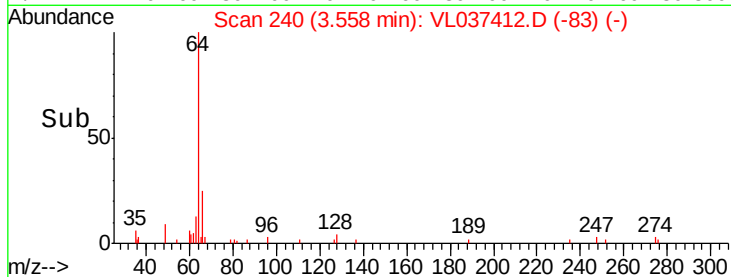
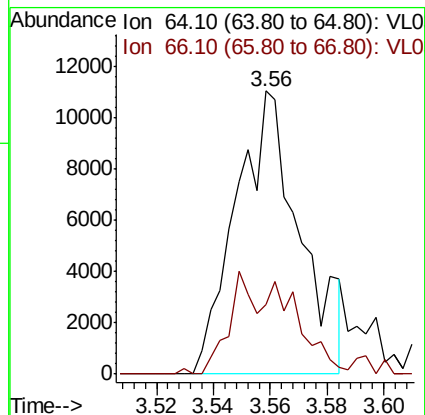
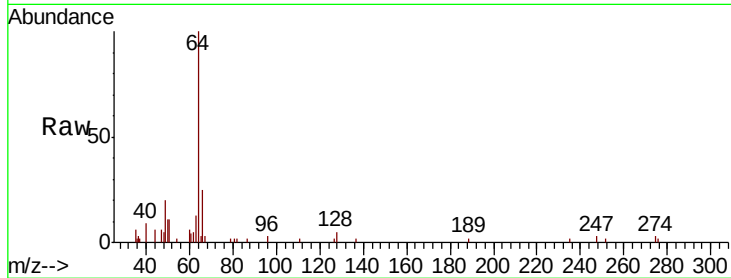
66 24.7 27.8 41.8#

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.597 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL037412.D

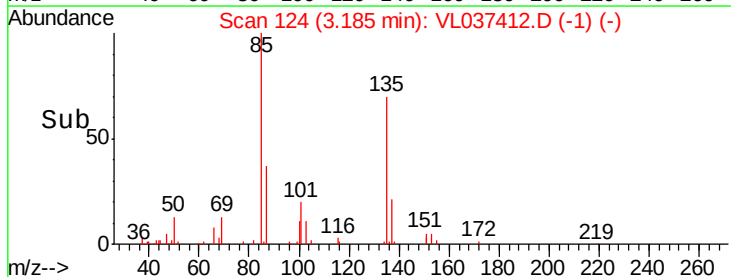
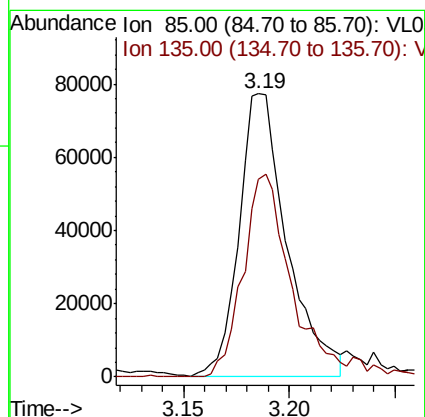
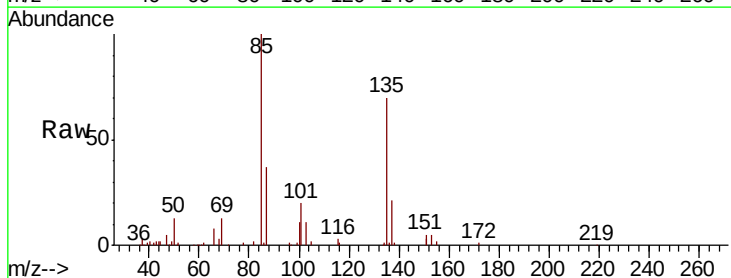
Acq: 12 Aug 2021 12:55

Tgt Ion: 85 Resp: 121459

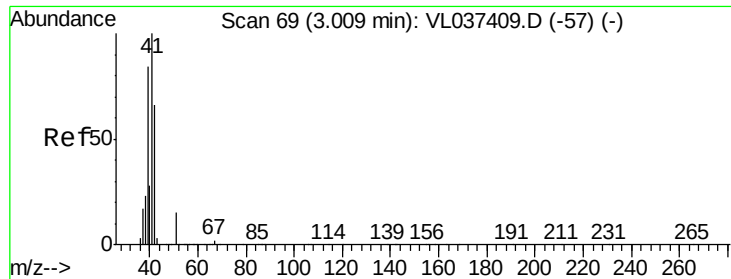
Ion Ratio Lower Upper

85 100

135 76.7 58.6 88.0







#9

Propene

Concen: 0.584 ppbv m

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 47765

Ion Ratio Lower Upper

41 100

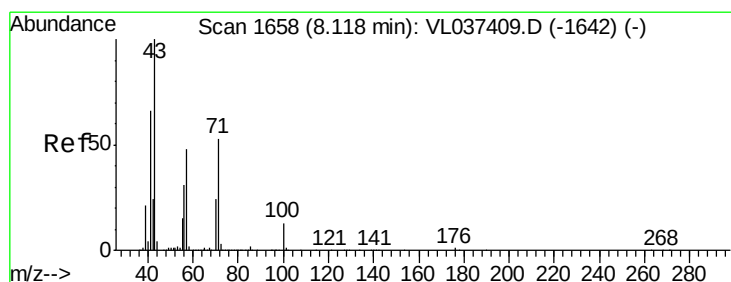
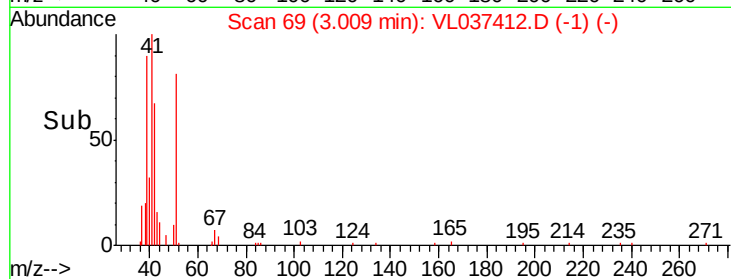
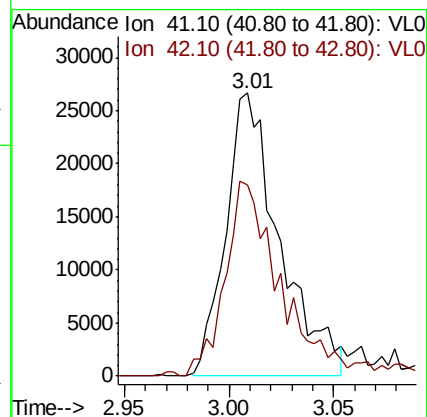
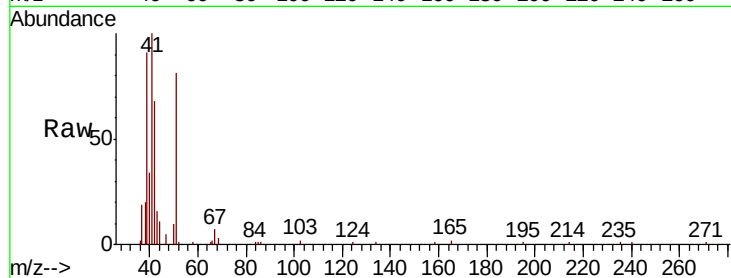
42 73.4 53.8 80.8

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#10

Heptane

Concen: 0.543 ppbv m

RT: 8.12 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VL037412.D

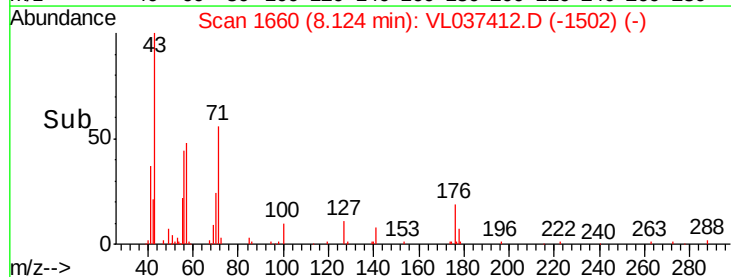
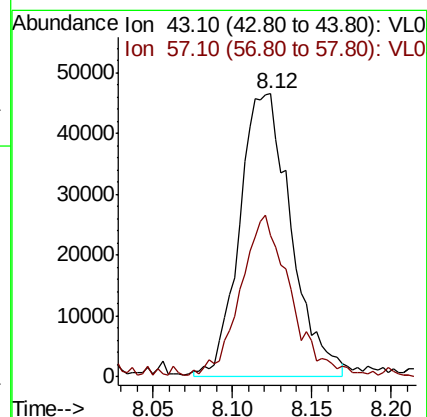
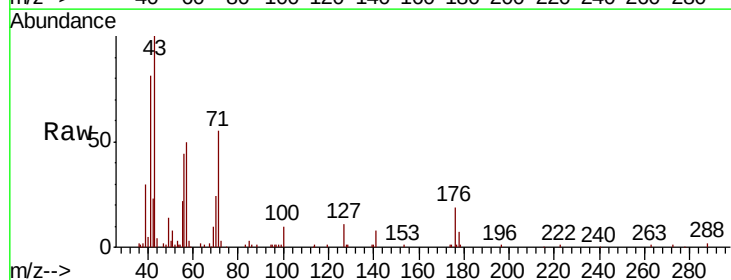
Acq: 12 Aug 2021 12:55

Tgt Ion: 43 Resp: 104998

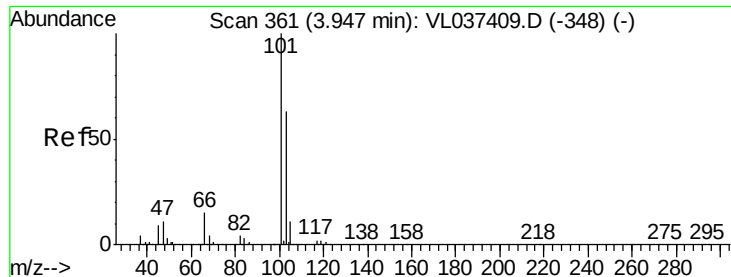
Ion Ratio Lower Upper

43 100

57 0.0 40.3 60.5#







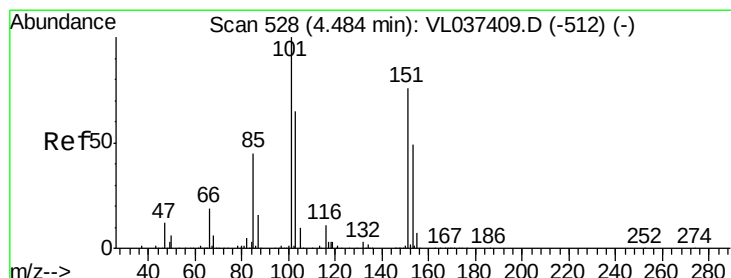
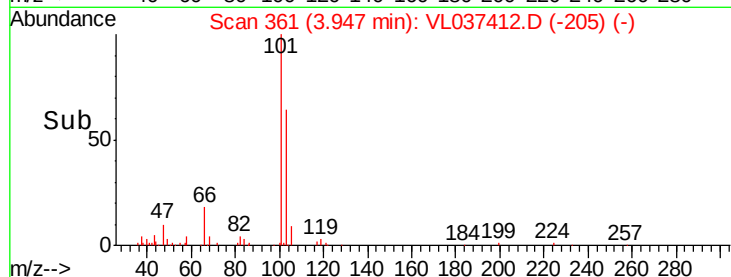
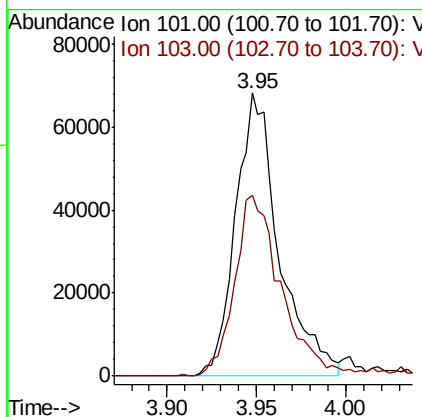
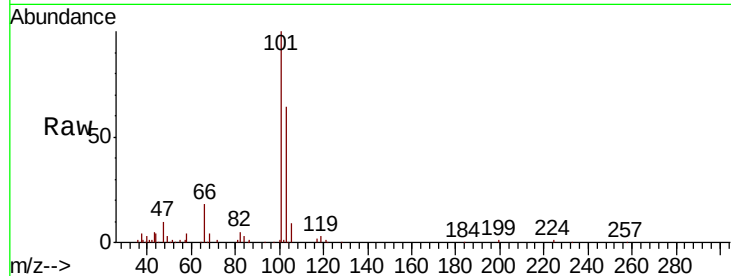
#11  
 Trichlorofluoromethane  
 Concen: 0.592 ppbv  
 RT: 3.95 min Scan# 361  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 64.0  | 50.2  | 75.4  |

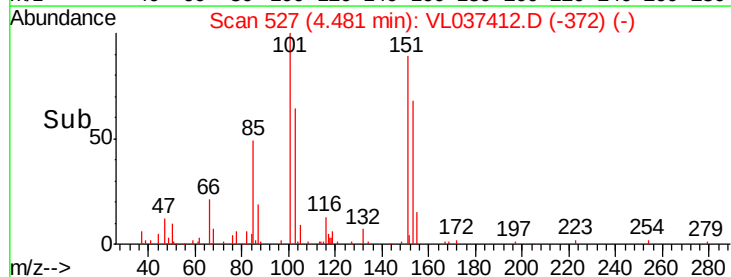
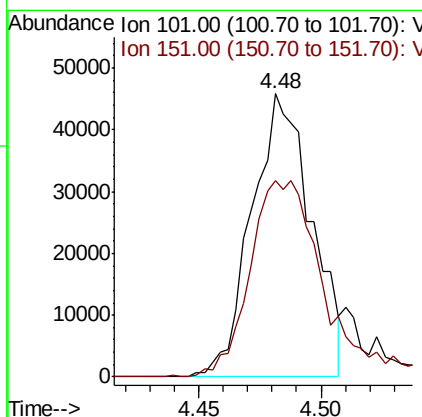
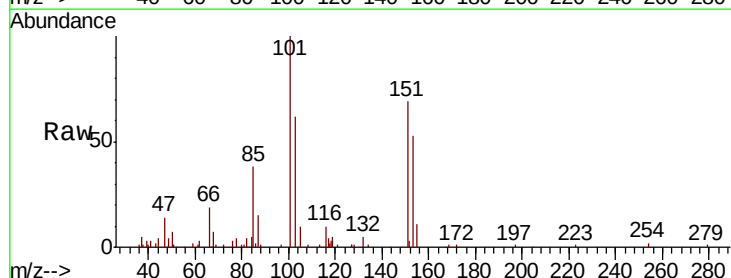
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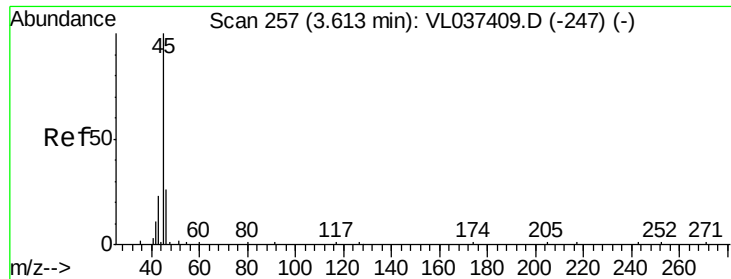
apatel  
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.557 ppbv  
 RT: 4.48 min Scan# 527  
 Delta R.T. -0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 151     | 87.8  | 61.2  | 91.8  |





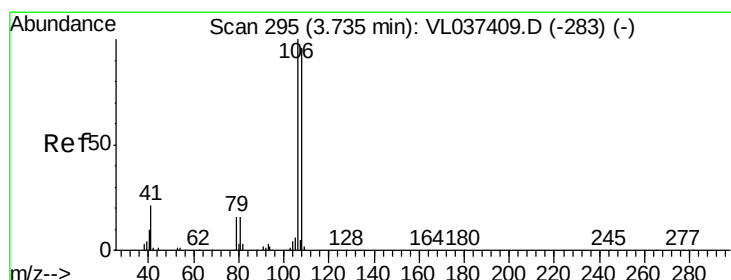
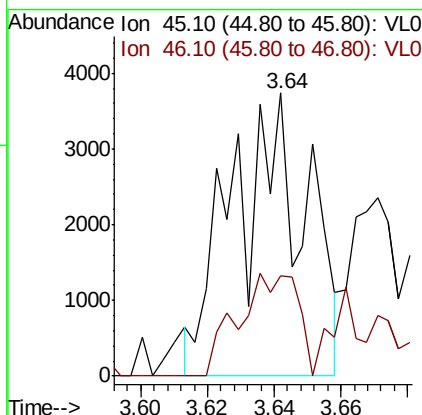
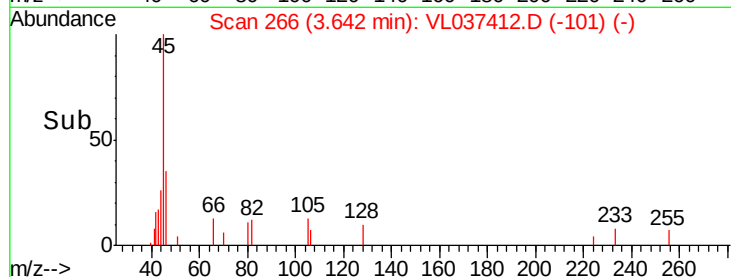
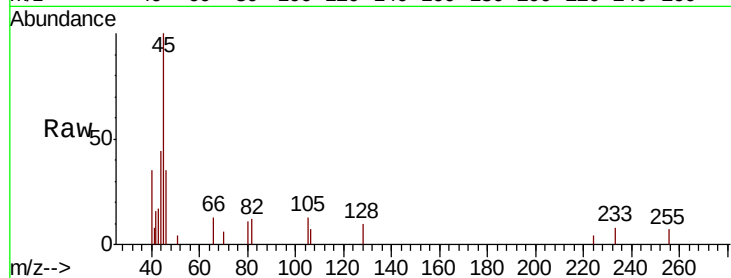
#13  
Ethanol  
Concen: 0.578 ppbv m  
RT: 3.64 min Scan# 266  
Delta R.T. 0.03 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 0.0   | 18.0  | 72.2# |

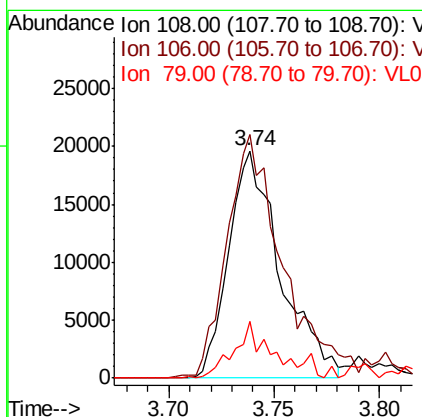
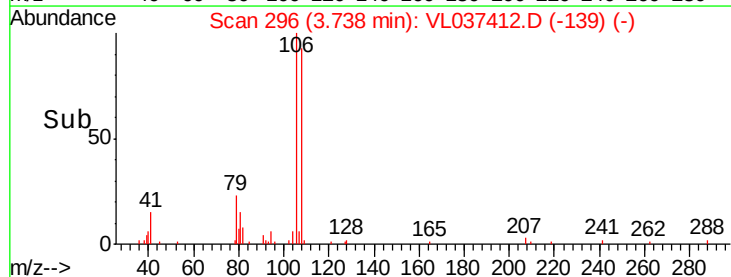
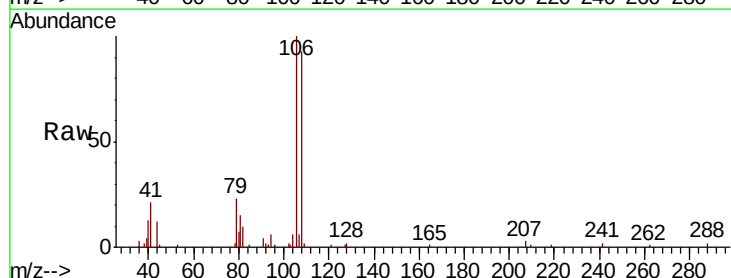
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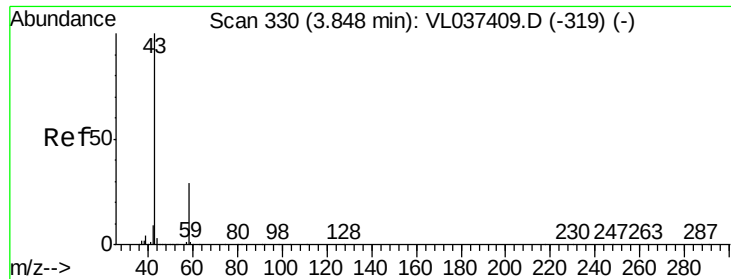
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#14  
Bromoethene  
Concen: 0.523 ppbv  
RT: 3.74 min Scan# 296  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 106     | 122.1 | 87.5  | 131.3 |
| 79      | 19.0  | 13.5  | 20.3  |





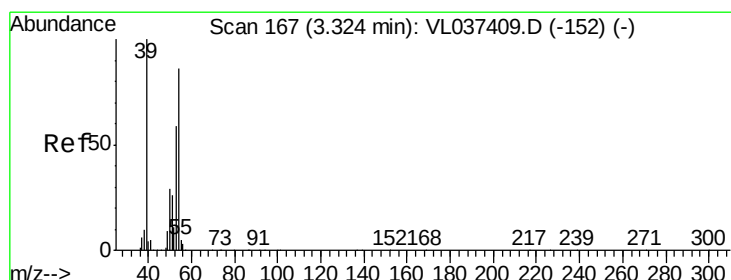
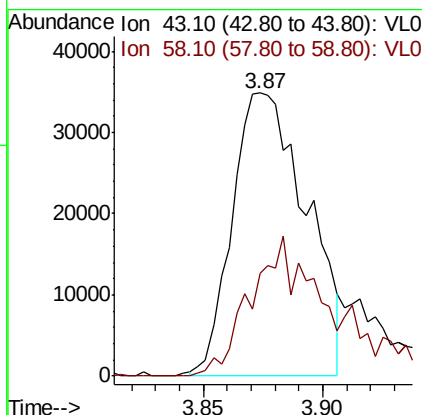
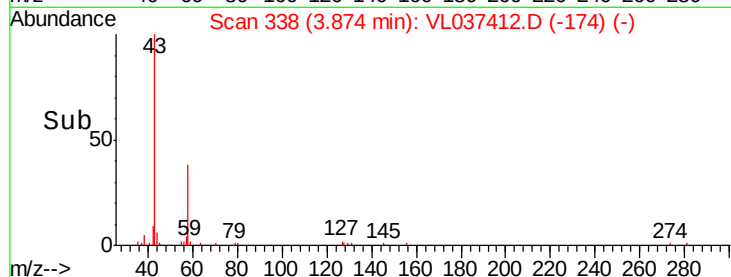
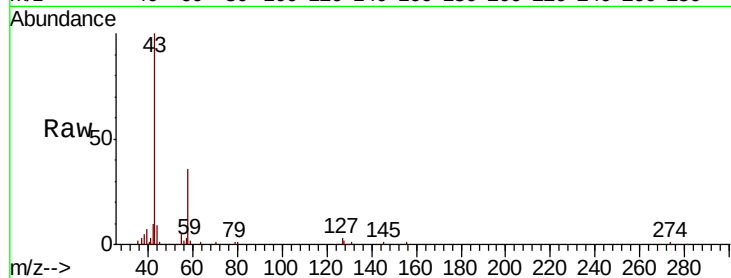
#15  
Acetone  
Concen: 0.612 ppbv m  
RT: 3.87 min Scan# 338  
Delta R.T. 0.03 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 57.9  | 24.4  | 36.6# |

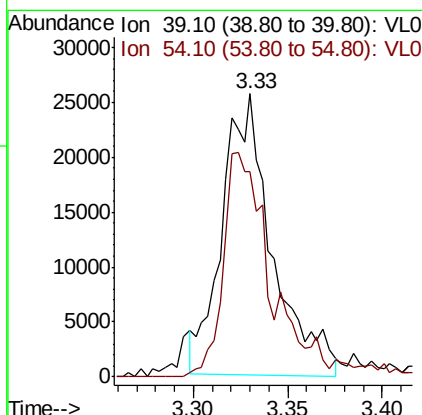
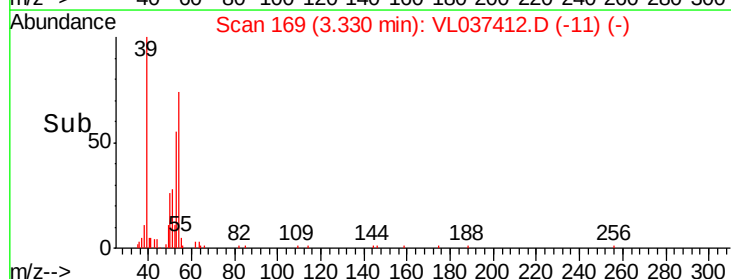
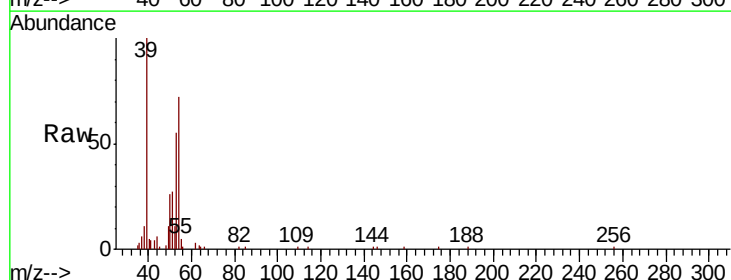
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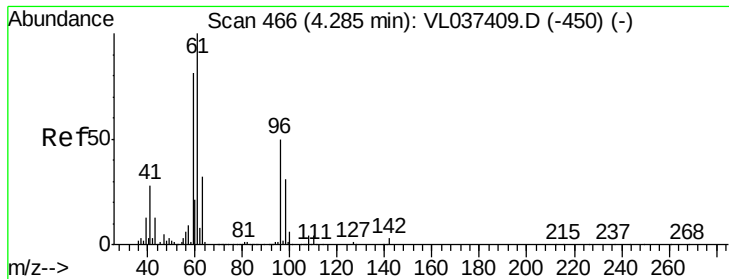
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#16  
1,3-Butadiene  
Concen: 0.551 ppbv m  
RT: 3.33 min Scan# 169  
Delta R.T. 0.01 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 39      | 100   |       |       |
| 54      | 78.8  | 61.4  | 92.0  |





#17

tert-Butyl alcohol

Concen: 0.636 ppbv m

RT: 4.33 min Scan# 480

Delta R.T. 0.05 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 59 Resp: 69973

Ion Ratio Lower Upper

59 100

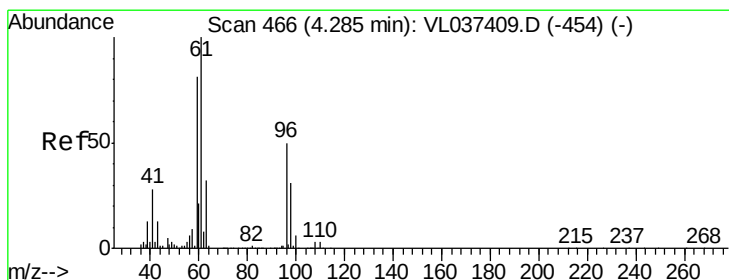
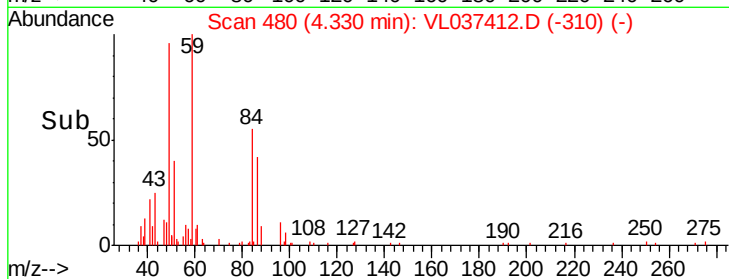
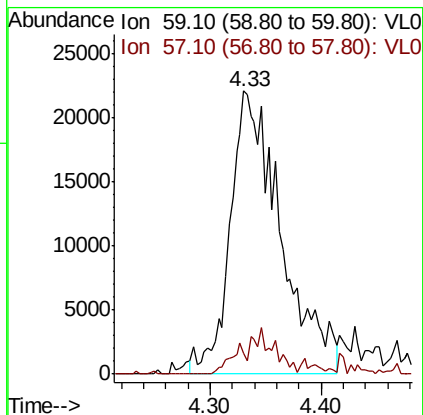
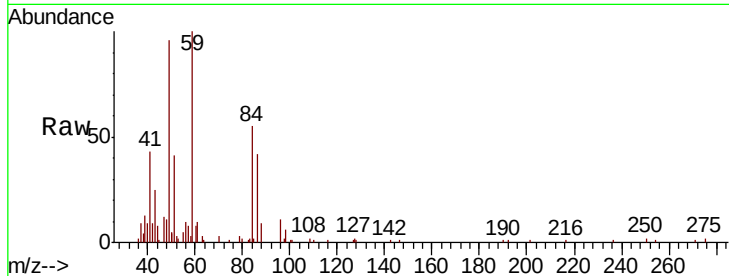
57 0.0 8.5 12.7#

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#18

1,1-Dichloroethene

Concen: 0.598 ppbv m

RT: 4.29 min Scan# 466

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

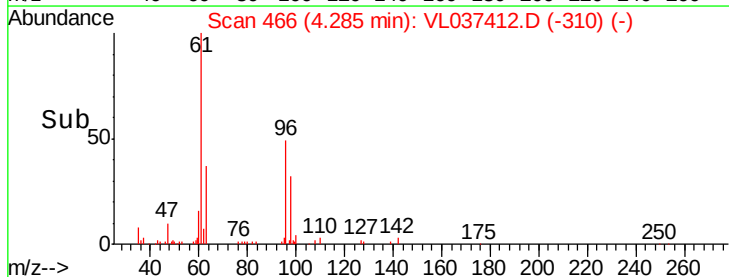
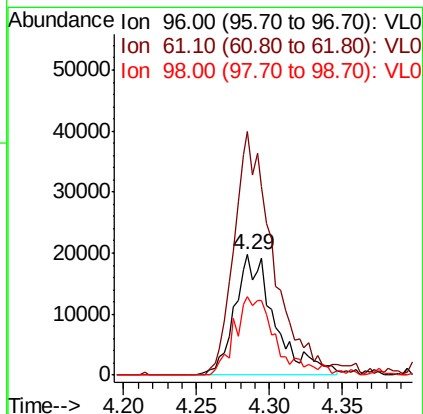
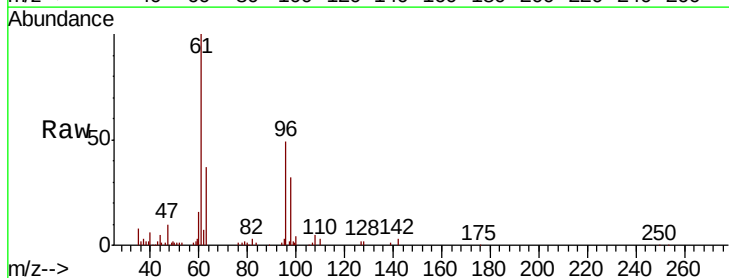
Tgt Ion: 96 Resp: 37829

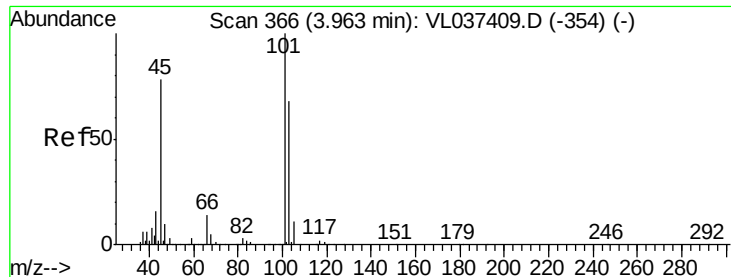
Ion Ratio Lower Upper

96 100

61 202.0 159.0 238.4

98 64.9 49.4 74.2





#19

Isopropyl Alcohol

Concen: 0.605 ppbv m

RT: 4.01 min Scan# 379

Delta R.T. 0.04 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 42833

Ion Ratio Lower Upper

45 100

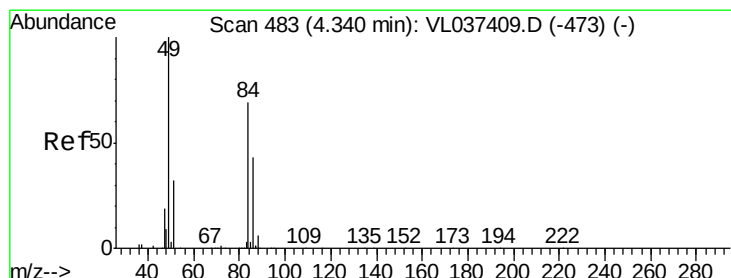
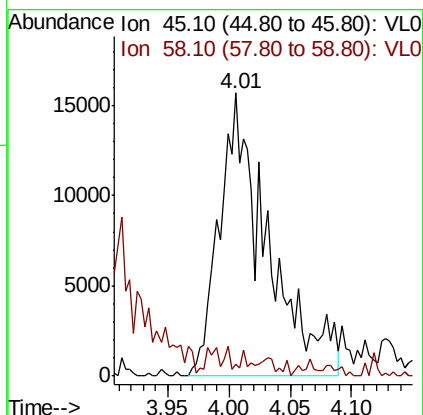
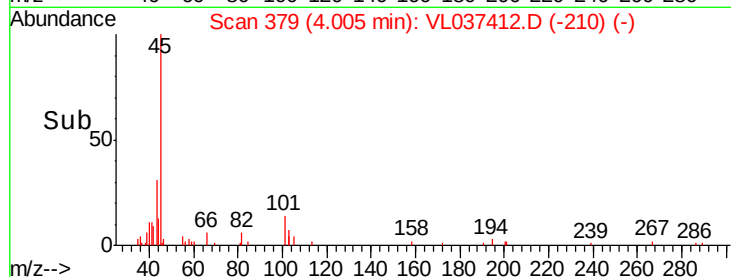
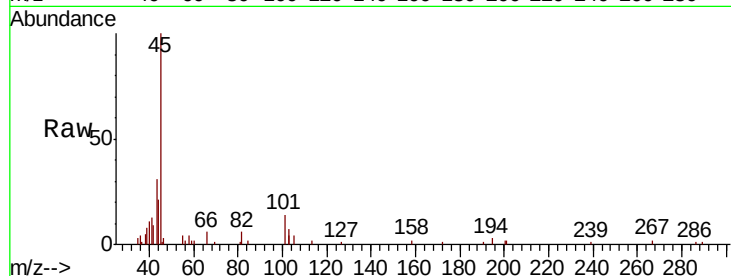
58 3.9 2.2 3.4#

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#20

Methylene Chloride

Concen: 0.646 ppbv m

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Tgt Ion: 84 Resp: 43146

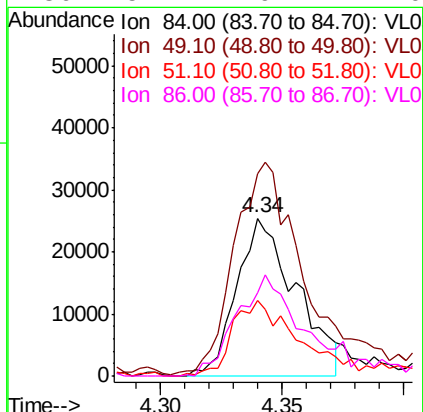
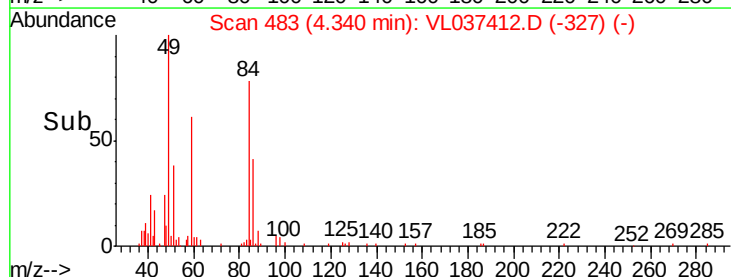
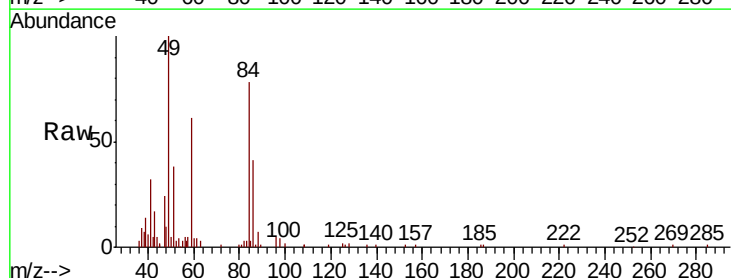
Ion Ratio Lower Upper

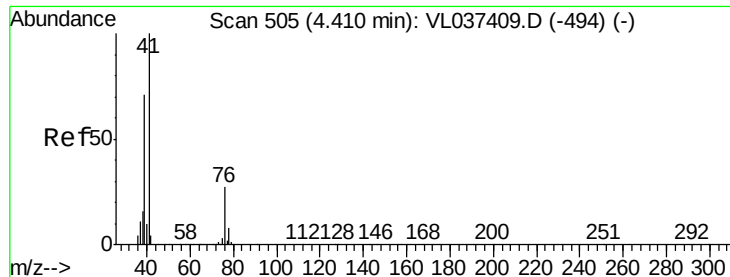
84 100

49 128.1 116.0 174.0

51 48.1 37.1 55.7

86 52.4 49.4 74.0





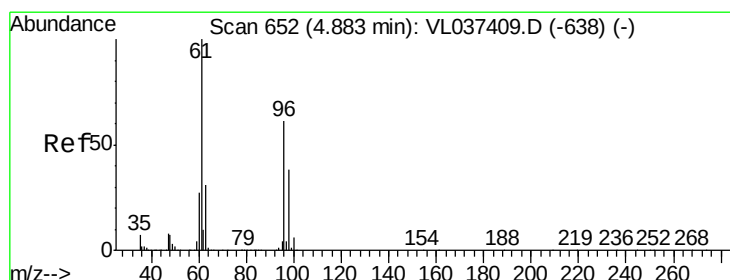
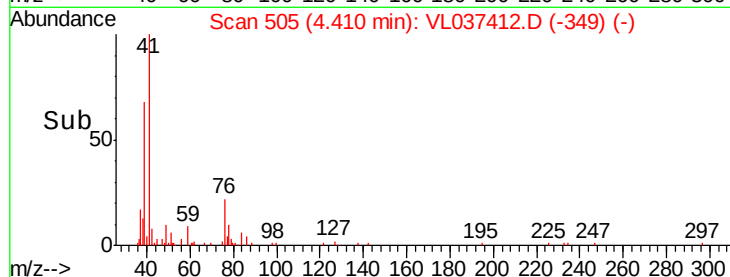
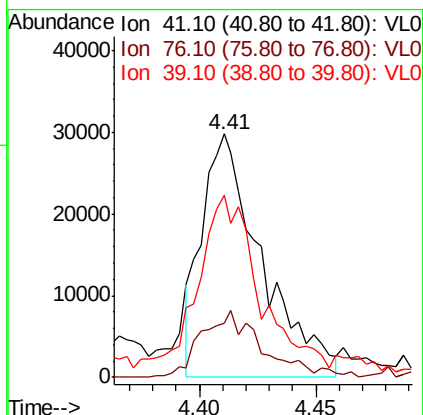
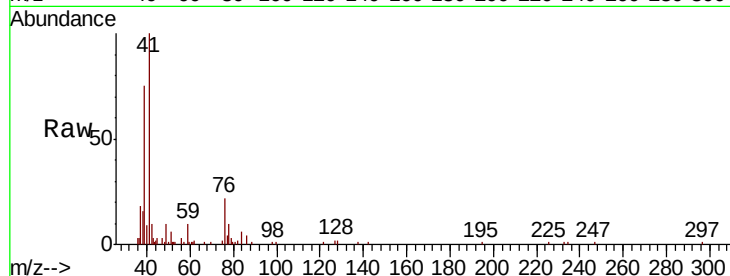
#21  
Allvl Chloride  
Concen: 0.550 ppbv m  
RT: 4.41 min Scan# 505  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 28.2  | 23.7  | 35.5  |
| 39      | 88.2  | 62.3  | 93.5  |

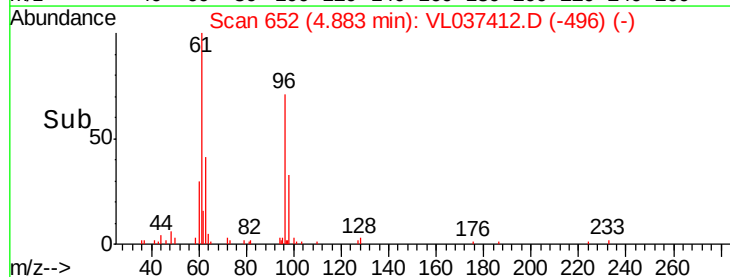
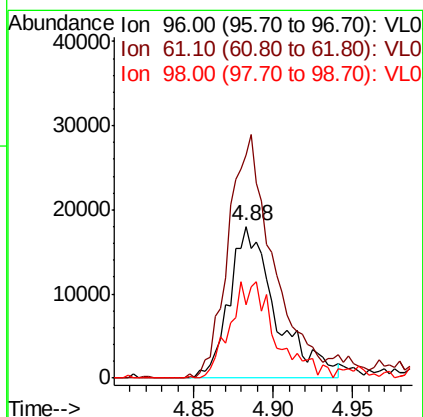
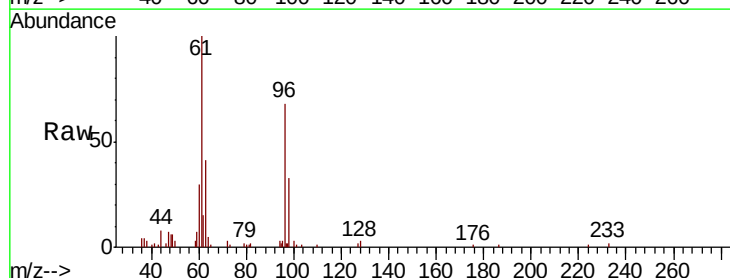
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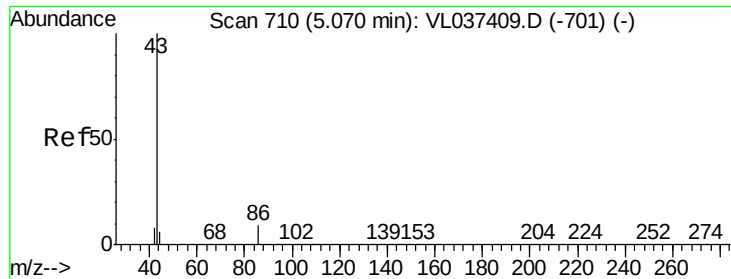
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#22  
trans-1,2-Dichloroethene  
Concen: 0.611 ppbv m  
RT: 4.88 min Scan# 652  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 147.0 | 131.0 | 196.4 |
| 98      | 48.4  | 50.2  | 75.4# |





#23

Vinyl Acetate

Concen: 0.468 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.01 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

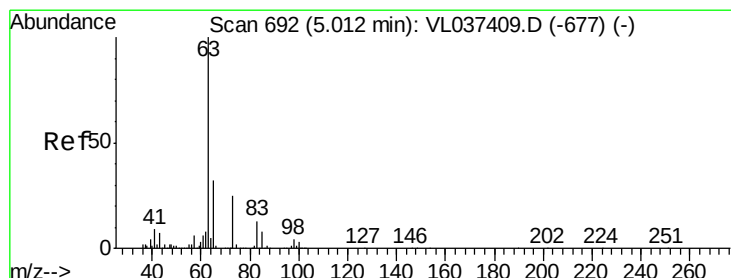
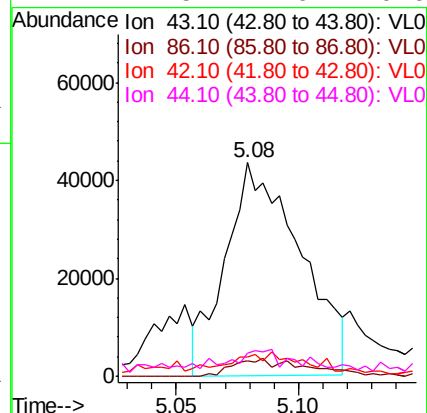
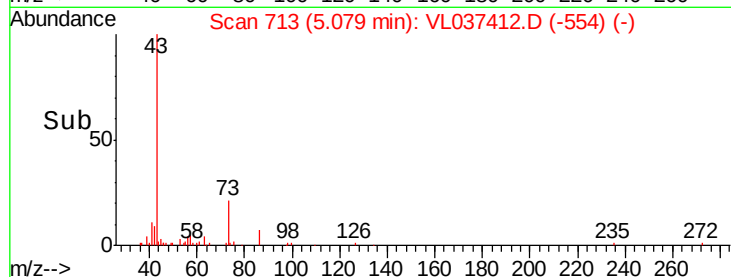
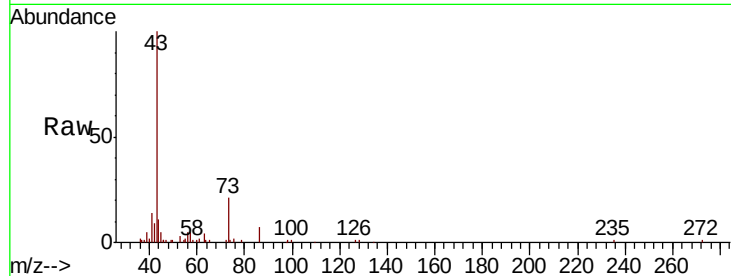
ClientSampleId :

VSTDIC0.5

| Tot Ion | Ion | Ratio | Resp  | Lower | Upper |
|---------|-----|-------|-------|-------|-------|
| 43      | 100 |       | 92475 |       |       |
| 86      | 9.5 | 5.8   | 8.8#  |       |       |
| 42      | 8.8 | 7.7   | 11.5  |       |       |
| 44      | 7.5 | 4.0   | 6.0#  |       |       |

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#24

1,1-Dichloroethane

Concen: 0.554 ppbv

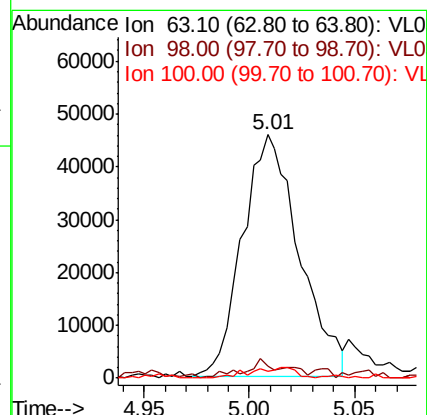
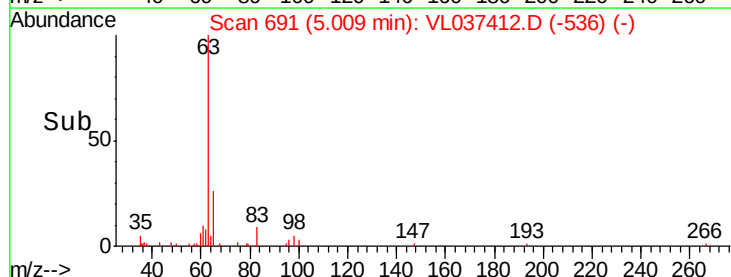
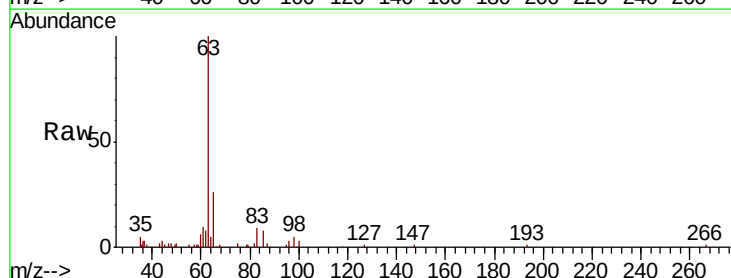
RT: 5.01 min Scan# 691

Delta R.T. -0.00 min

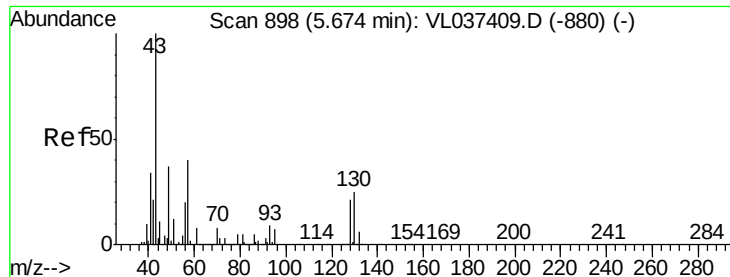
Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

| Tgt Ion | Ion | Ratio | Resp  | Lower | Upper |
|---------|-----|-------|-------|-------|-------|
| 63      | 100 |       | 86062 |       |       |
| 98      | 2.9 | 2.1   | 6.3   |       |       |
| 100     | 2.8 | 1.6   | 4.7   |       |       |







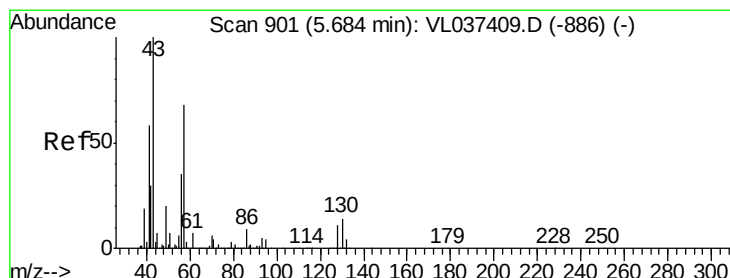
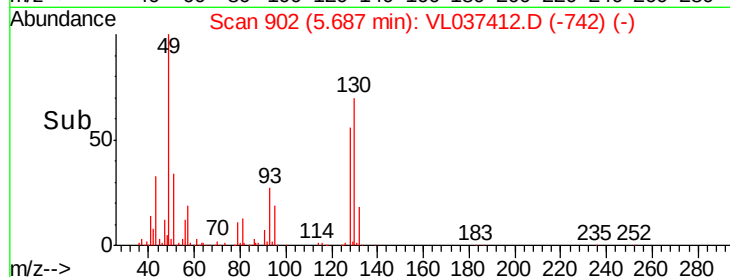
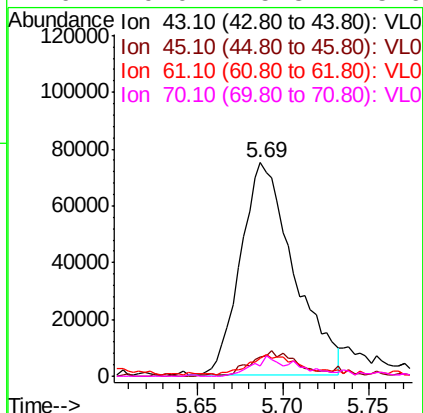
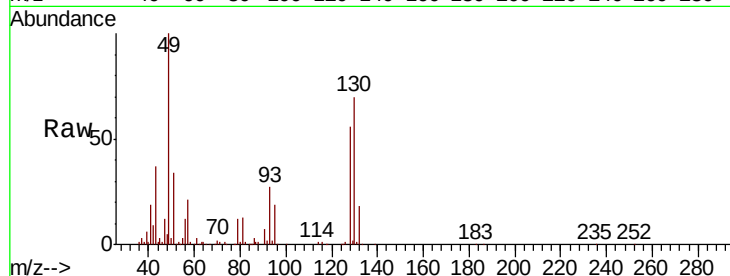
#25  
Ethyl Acetate  
Concen: 0.512 ppbv  
RT: 5.69 min Scan# 902  
Delta R.T. 0.01 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 12.6  | 7.9   | 11.9# |
| 61      | 10.8  | 7.7   | 11.5  |
| 70      | 9.0   | 5.8   | 8.6#  |

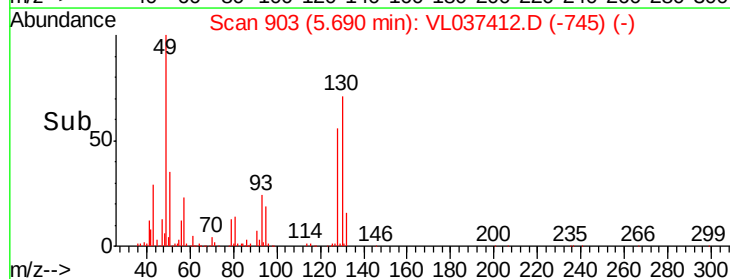
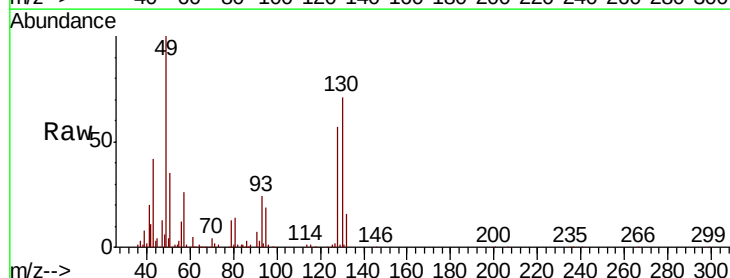
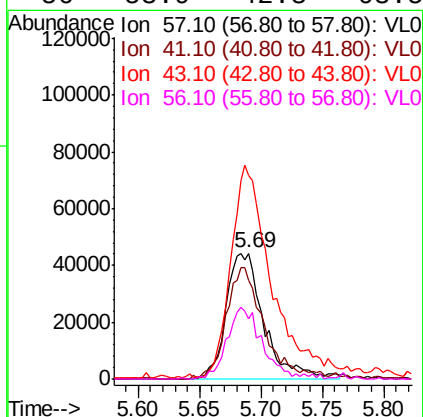
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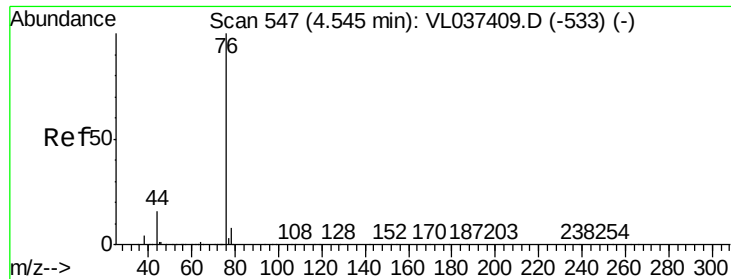
apatel  
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#26  
Hexane  
Concen: 0.597 ppbv m  
RT: 5.69 min Scan# 903  
Delta R.T. 0.01 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 41      | 0.0   | 72.5  | 108.7# |
| 43      | 0.0   | 169.3 | 253.9# |
| 56      | 53.9  | 42.3  | 63.5   |





#27

Carbon Disulfide

Concen: 0.418 ppbv

RT: 4.55 min Scan# 549

Delta R.T. 0.01 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

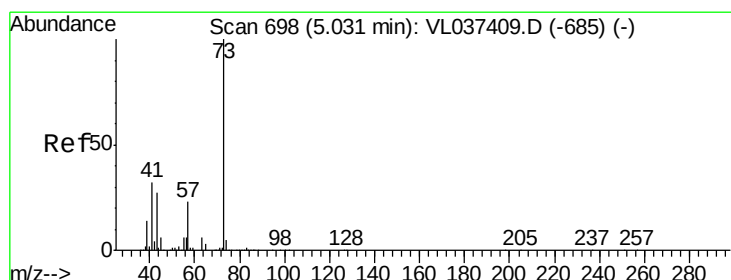
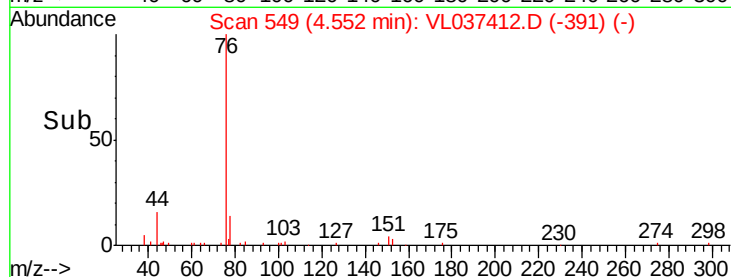
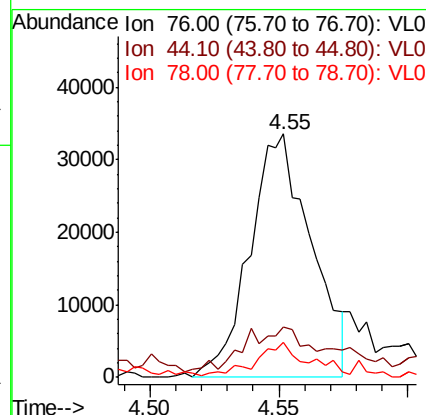
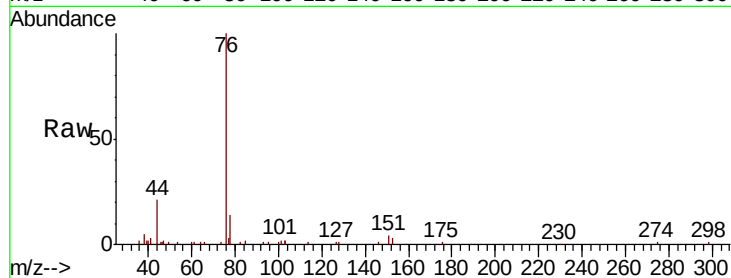
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 76    | Resp: | 55852 |
| Ion Ratio | Lower | Upper |       |
| 76        | 100   |       |       |
| 44        | 21.6  | 14.4  | 21.6# |
| 78        | 15.2  | 8.0   | 12.0# |

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#28

Methyl tert-Butyl Ether

Concen: 0.498 ppbv

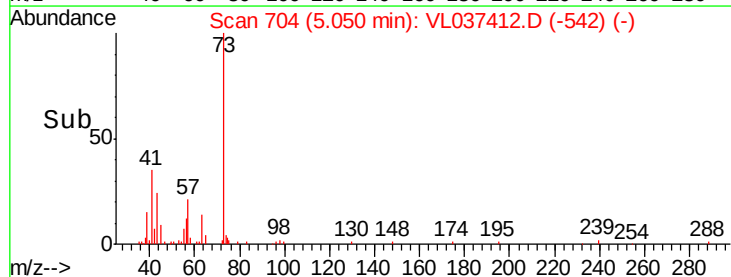
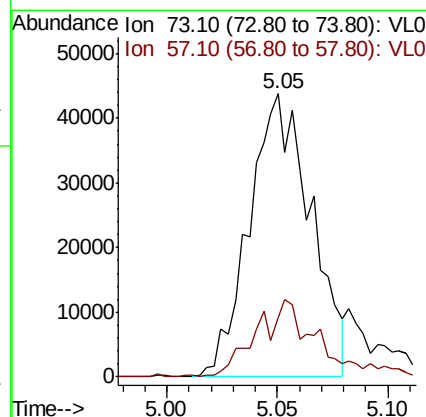
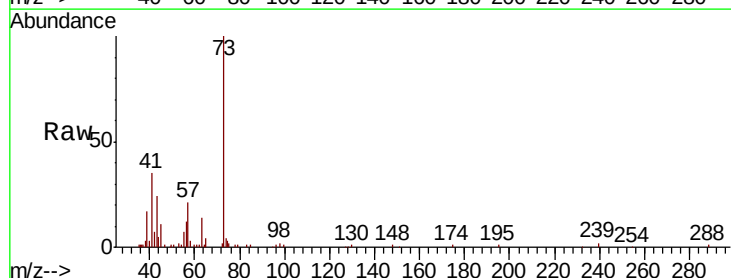
RT: 5.05 min Scan# 704

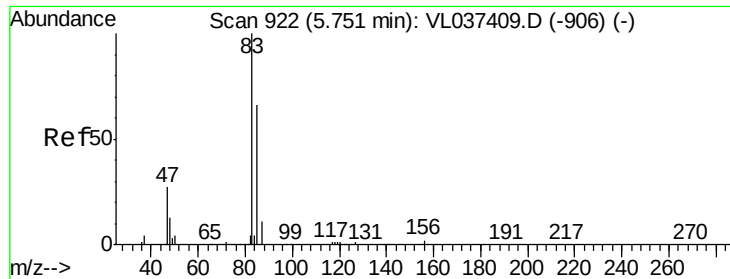
Delta R.T. 0.02 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 73    | Resp: | 84782 |
| Ion Ratio | Lower | Upper |       |
| 73        | 100   |       |       |
| 57        | 27.8  | 19.0  | 28.4  |





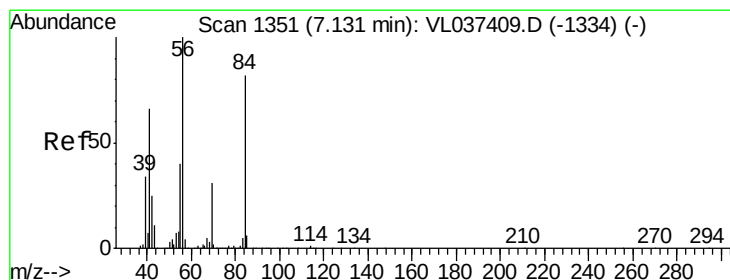
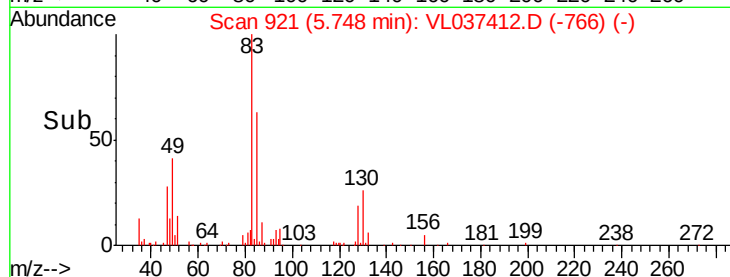
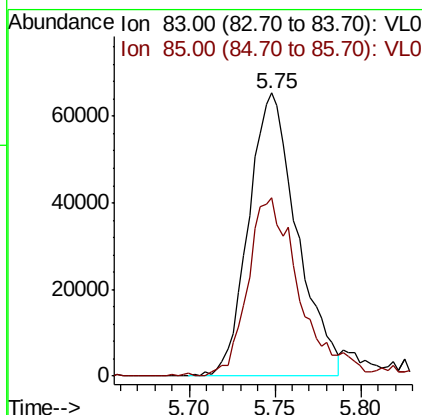
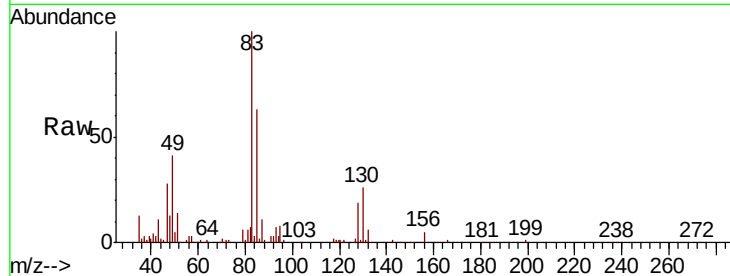
#29  
Chloroform  
Concen: 0.559 ppbv  
RT: 5.75 min Scan# 921  
Delta R.T. -0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion   | 83   | Resp  | 127893 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 83        | 100  |       |        |
| 85        | 61.7 | 52.4  | 78.6   |

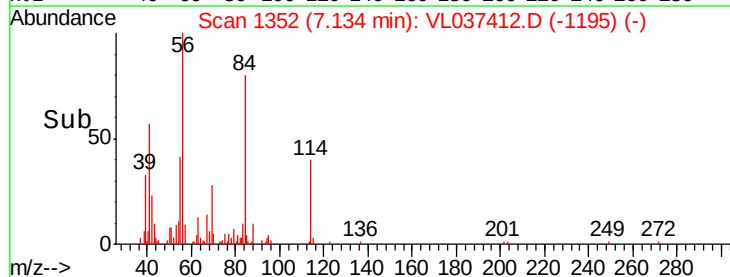
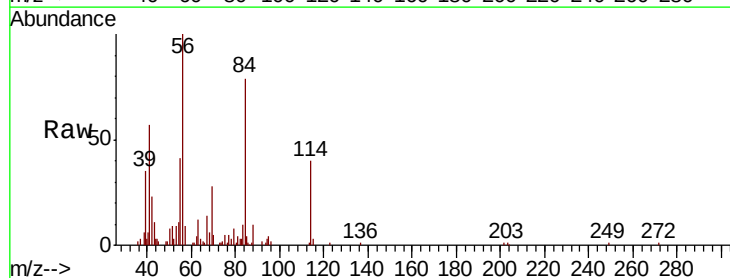
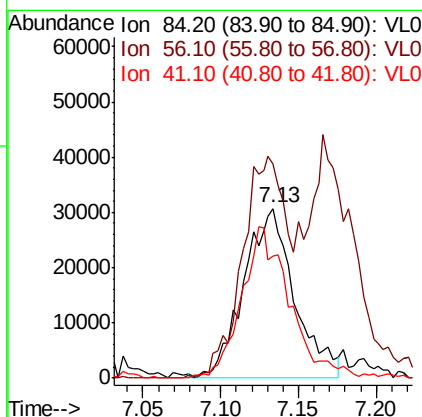
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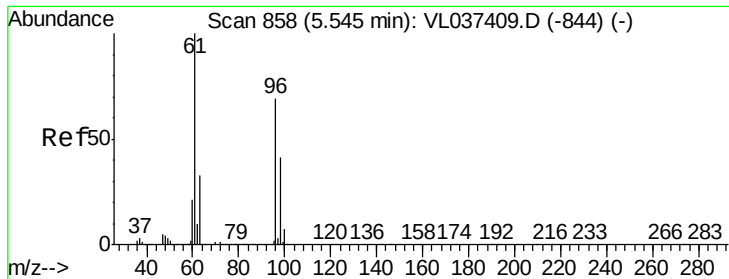
apatel  
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#30  
Cyclohexane  
Concen: 0.529 ppbv m  
RT: 7.13 min Scan# 1352  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion   | 84    | Resp  | 69785 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 84        | 100   |       |       |
| 56        | 122.1 | 109.6 | 164.4 |
| 41        | 0.0   | 66.6  | 99.8# |





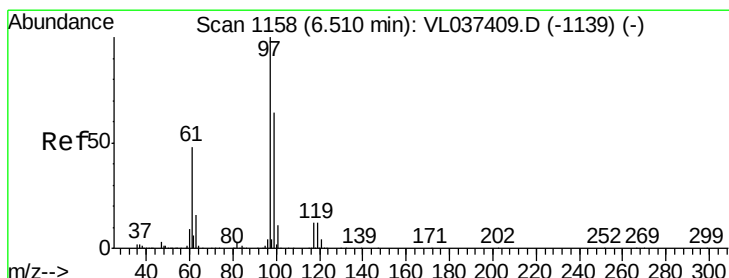
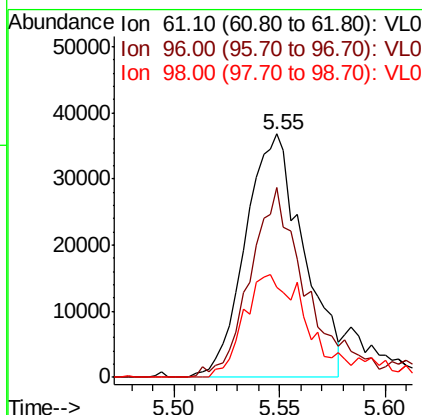
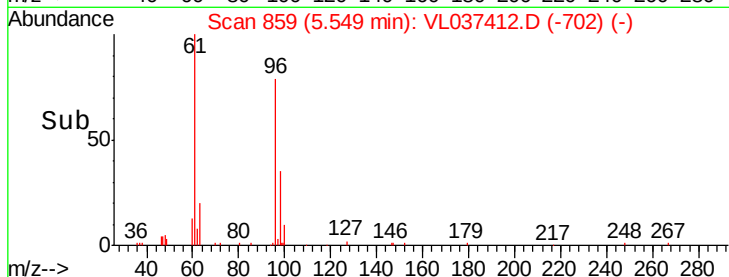
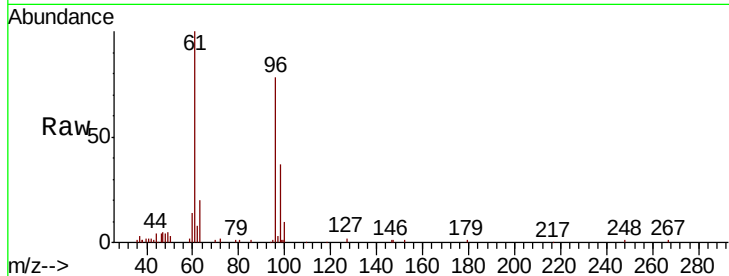
#31  
 cis-1,2-Dichloroethene  
 Concen: 0.493 ppbv  
 RT: 5.55 min Scan# 859  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 77.8  | 55.5  | 83.3  |
| 98      | 38.2  | 33.1  | 49.7  |

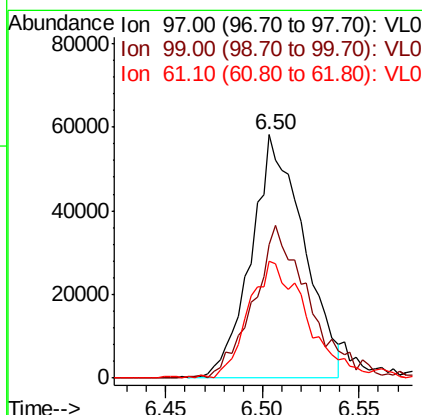
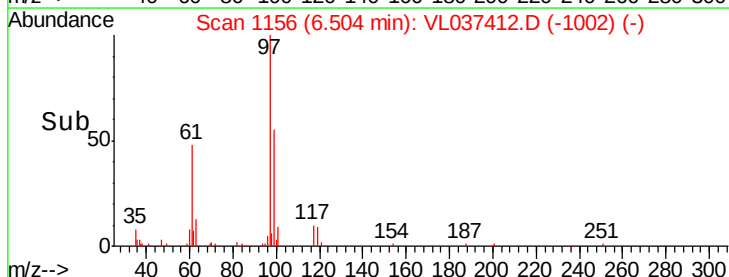
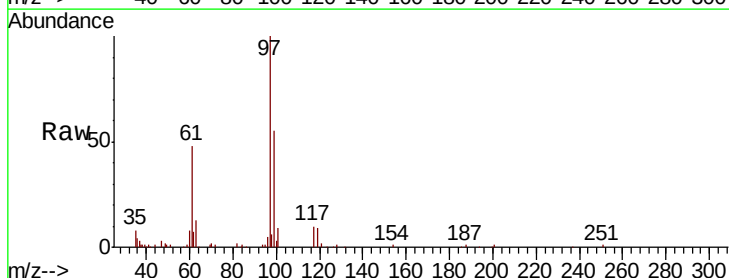
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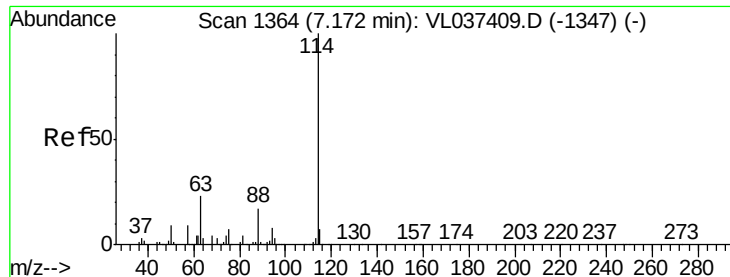
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#32  
 1,1,1-Trichloroethane  
 Concen: 0.499 ppbv  
 RT: 6.50 min Scan# 1156  
 Delta R.T. -0.01 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 67.4  | 52.3  | 78.5  |
| 61      | 54.9  | 40.1  | 60.1  |





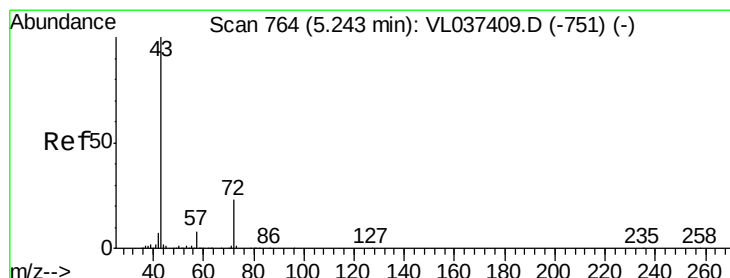
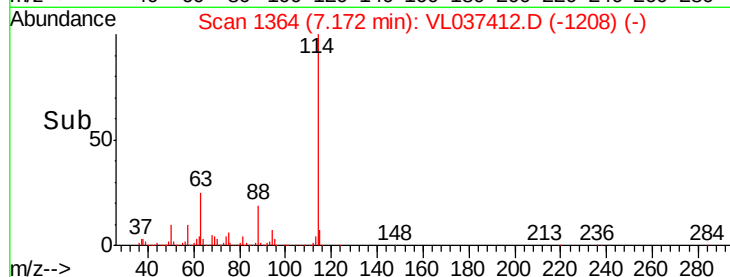
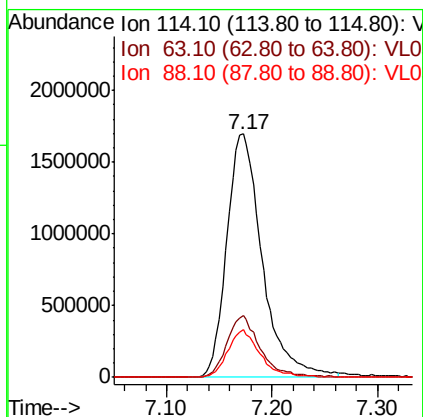
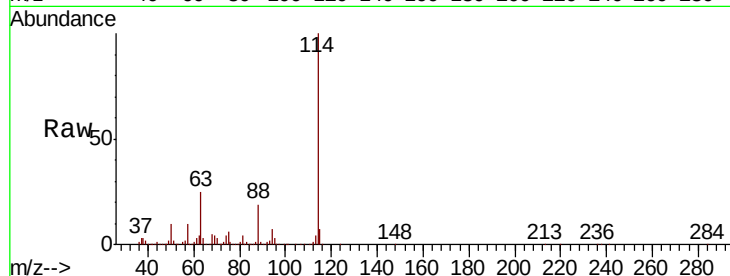
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1364  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.1  | 19.4  | 29.2  |
| 88      | 18.2  | 14.2  | 21.4  |

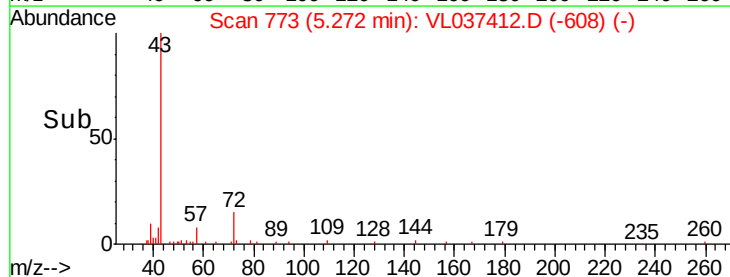
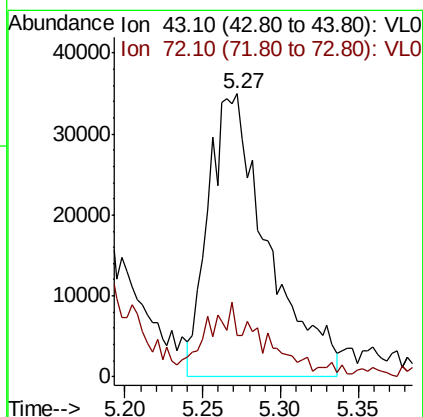
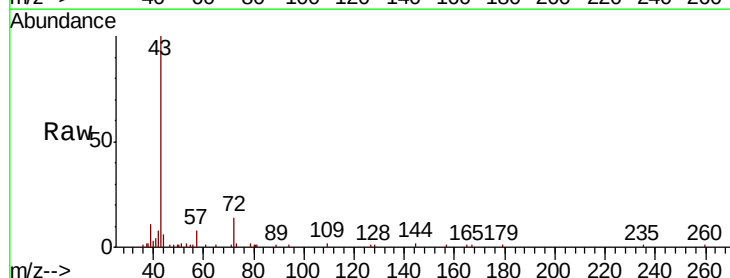
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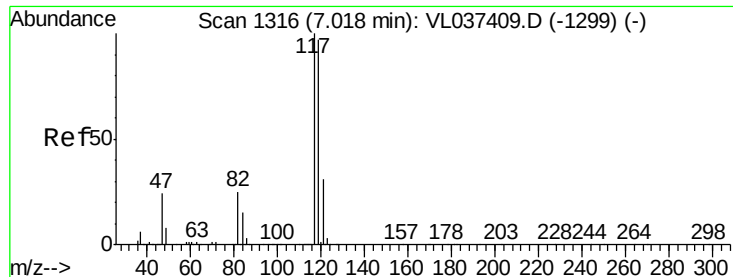
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#34  
 2-Butanone  
 Concen: 0.615 ppbv m  
 RT: 5.27 min Scan# 773  
 Delta R.T. 0.03 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 0.0   | 17.7  | 26.5# |





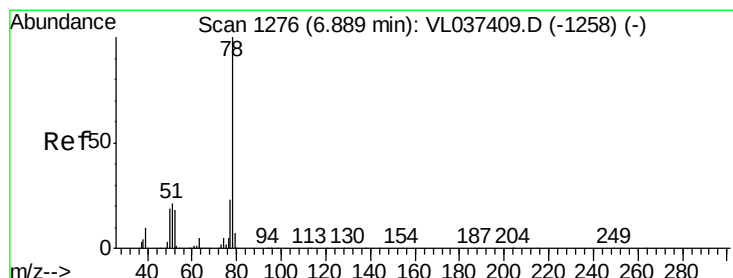
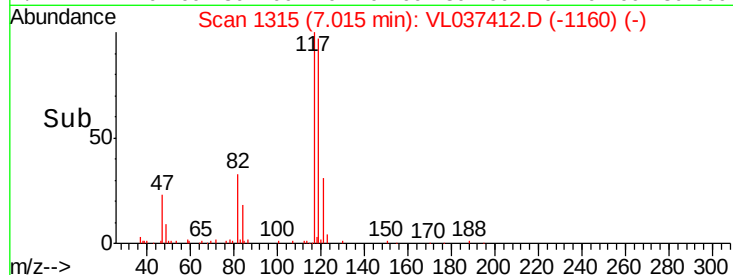
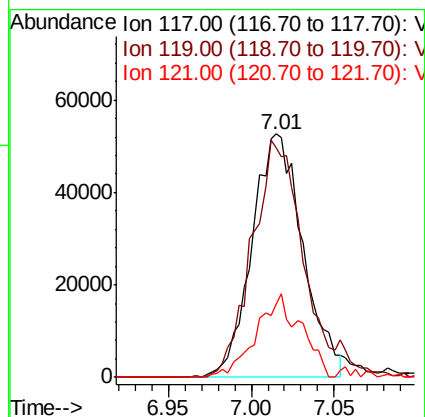
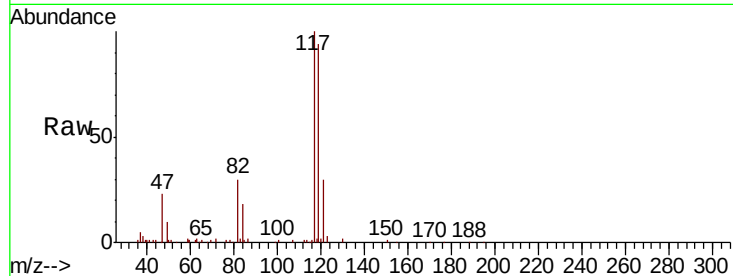
#35  
Carbon Tetrachloride  
Concen: 0.510 ppbv  
RT: 7.01 min Scan# 1315  
Delta R.T. -0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 94.4  | 77.5  | 116.3 |
| 121     | 30.2  | 24.7  | 37.1  |

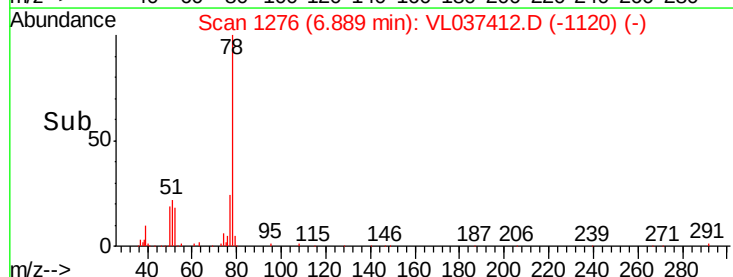
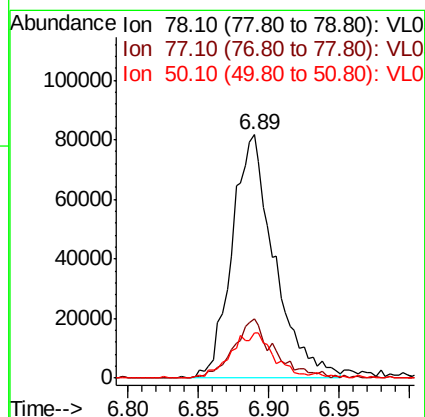
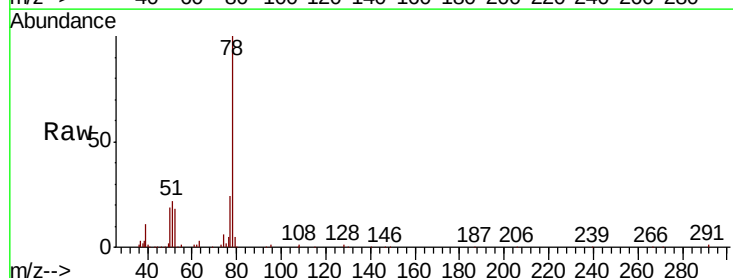
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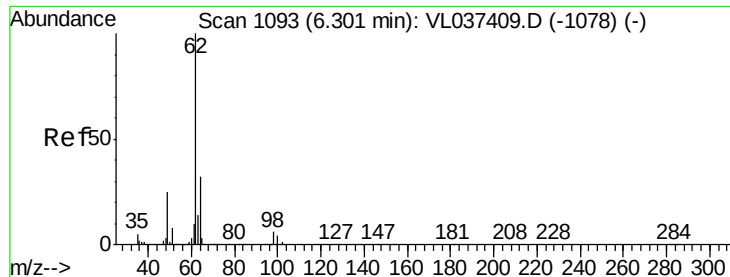
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#36  
Benzene  
Concen: 0.546 ppbv  
RT: 6.89 min Scan# 1276  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 24.3  | 18.6  | 27.8  |
| 50      | 18.5  | 14.9  | 22.3  |





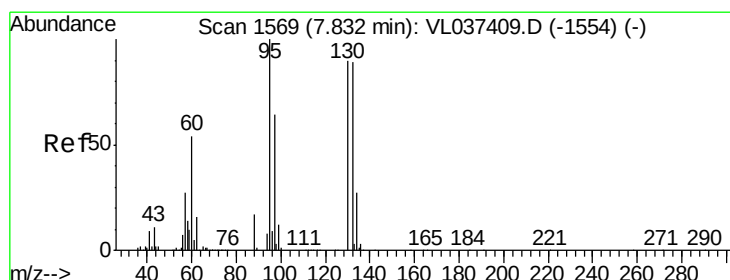
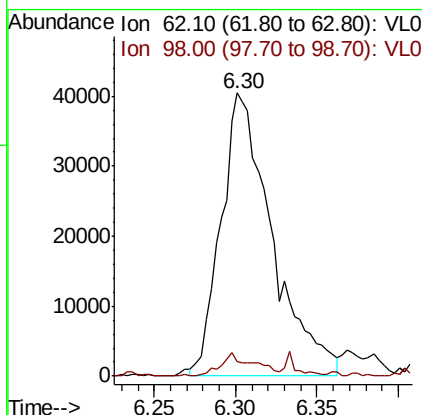
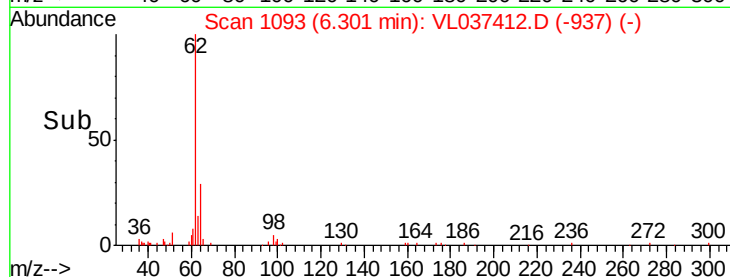
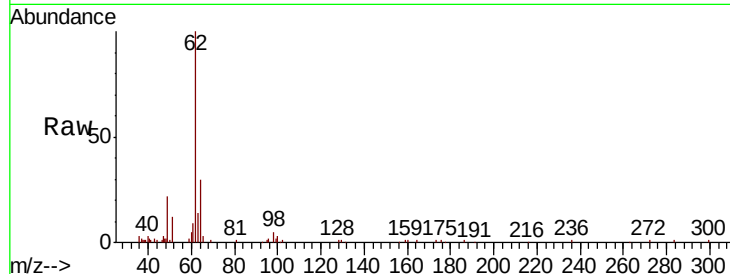
#37  
 1,2-Dichloroethane  
 Concen: 0.550 ppbv m  
 RT: 6.30 min Scan# 1093  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 62      | 100   | 88394 |       |       |
| 98      | 7.6   | 5.4   | 8.2   |       |

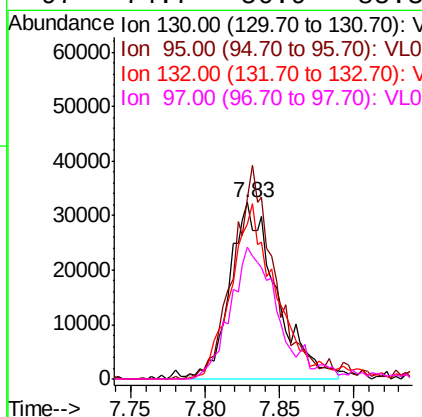
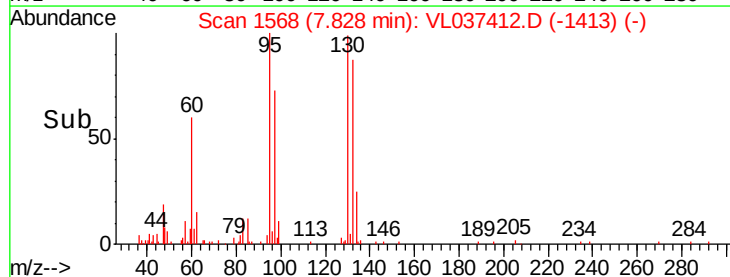
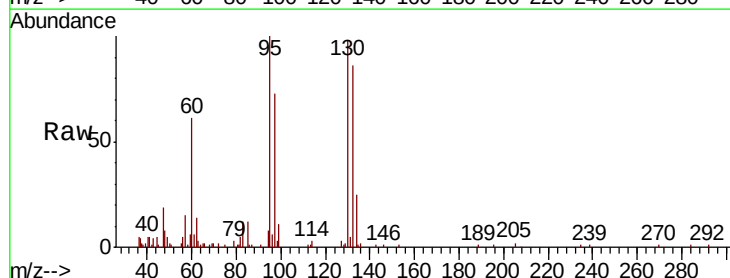
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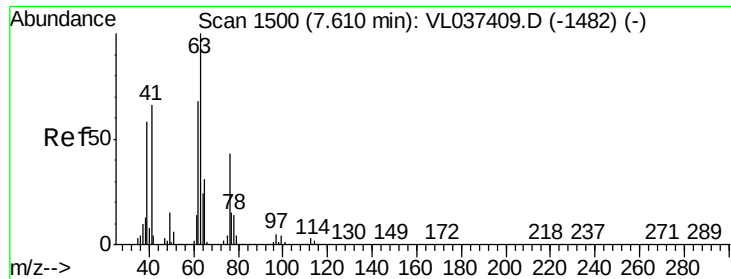
apatel  
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#38  
 Trichloroethene  
 Concen: 0.524 ppbv m  
 RT: 7.83 min Scan# 1568  
 Delta R.T. -0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 130     | 100   | 70149 |       |       |
| 95      | 101.9 | 88.6  | 132.8 |       |
| 132     | 87.5  | 79.2  | 118.8 |       |
| 97      | 74.7  | 56.9  | 85.3  |       |





#39

1,2-Dichloropropane

Concen: 0.593 ppbv m

RT: 7.62 min Scan# 1502

Delta R.T. 0.01 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

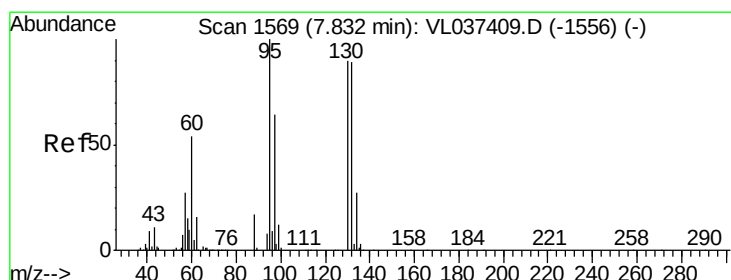
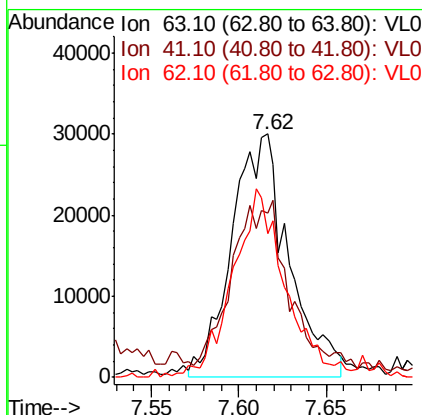
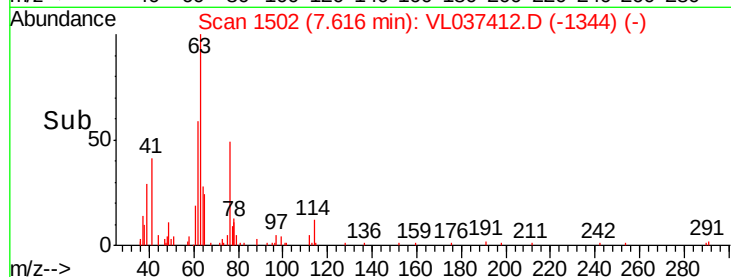
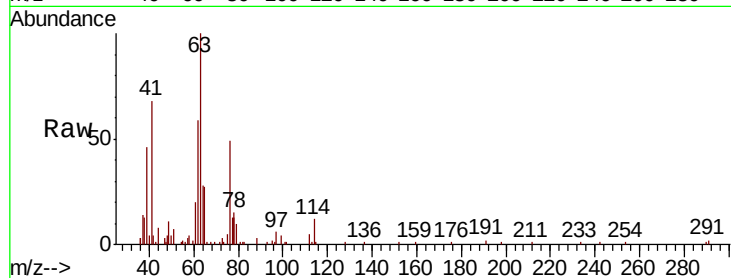
ClientSampleId :

VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 68152 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 41       | 67.6  | 53.0  | 79.6  |
| 62       | 59.2  | 54.5  | 81.7  |

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#40

1,4-Dioxane

Concen: 0.498 ppbv m

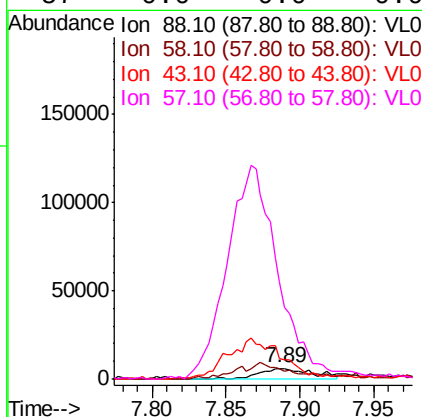
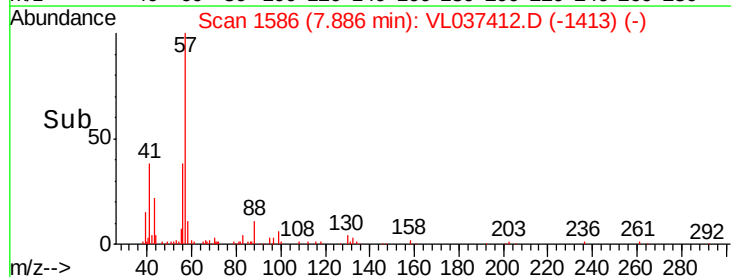
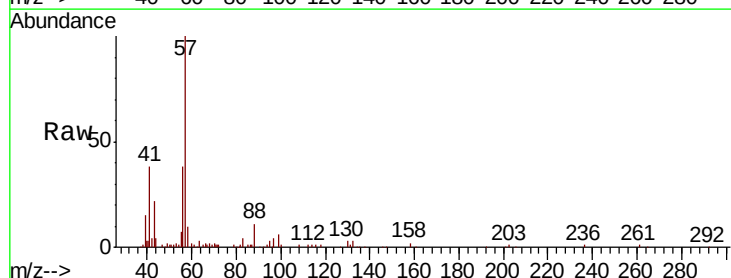
RT: 7.89 min Scan# 1586

Delta R.T. 0.05 min

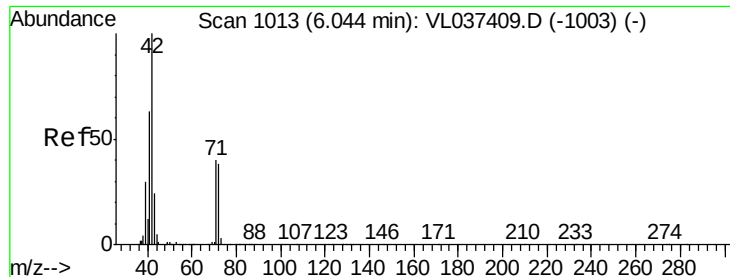
Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 15255 |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 0.0   | 0.0   | 0.0   |
| 43       | 0.0   | 0.0   | 0.0   |
| 57       | 0.0   | 0.0   | 0.0   |







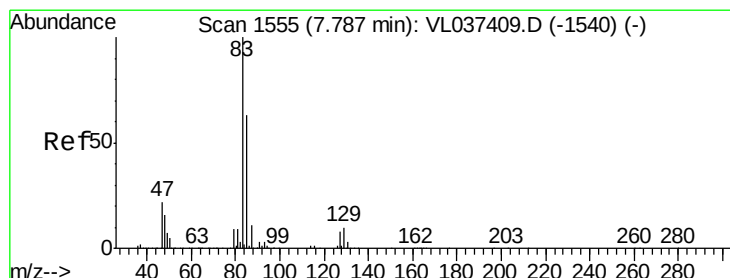
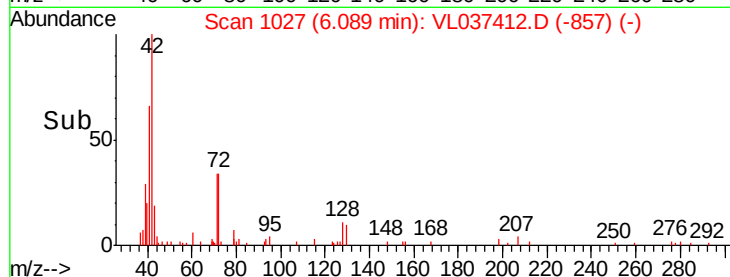
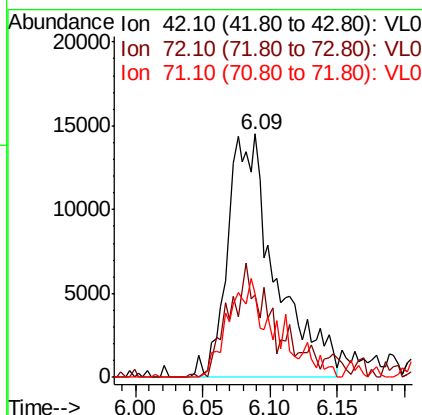
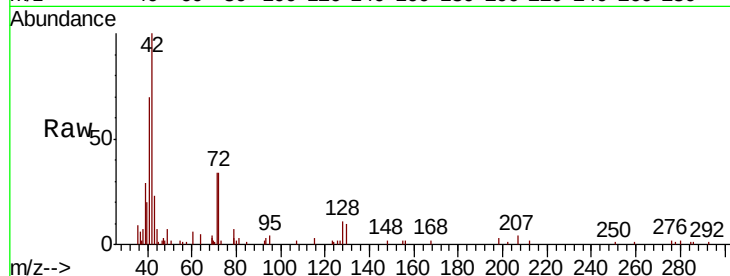
#41  
Tetrahydrofuran  
Concen: 0.506 ppbv m  
RT: 6.09 min Scan# 1027  
Delta R.T. 0.05 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 0.0   | 33.5  | 50.3# |
| 71      | 0.0   | 32.6  | 48.8# |

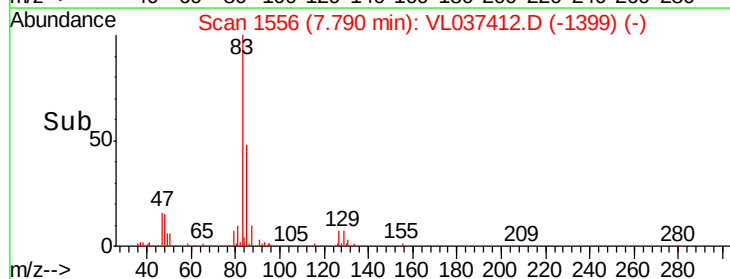
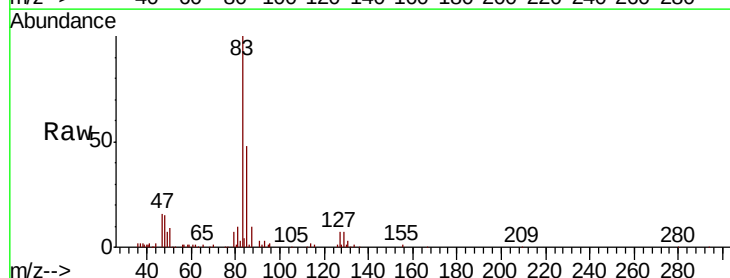
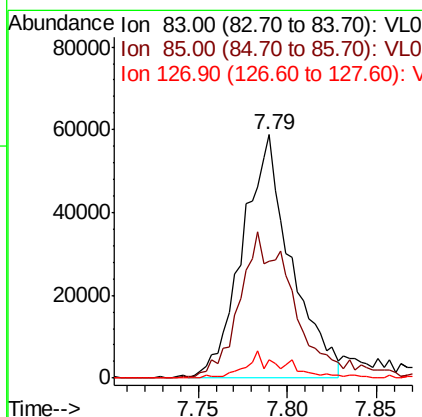
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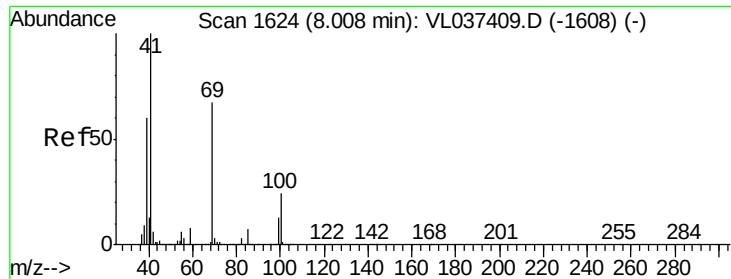
apatel  
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#42  
Bromodichloromethane  
Concen: 0.487 ppbv  
RT: 7.79 min Scan# 1556  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 47.3  | 50.2  | 75.2# |
| 127     | 7.3   | 6.6   | 9.8   |





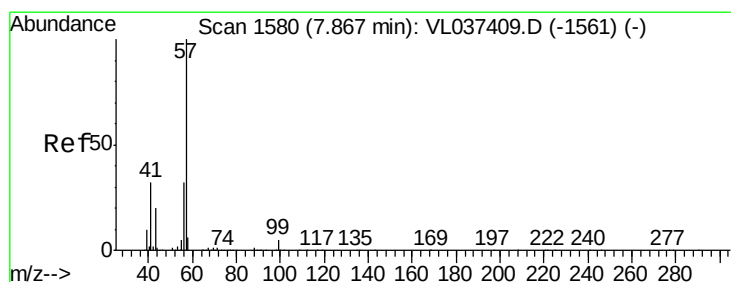
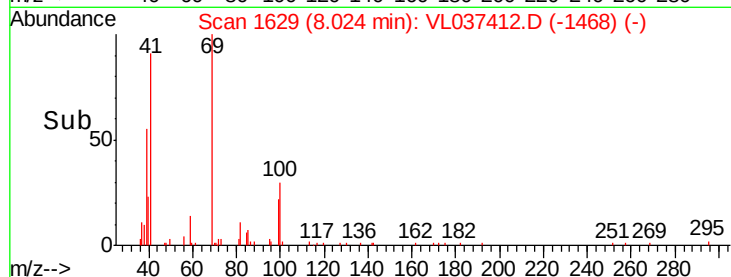
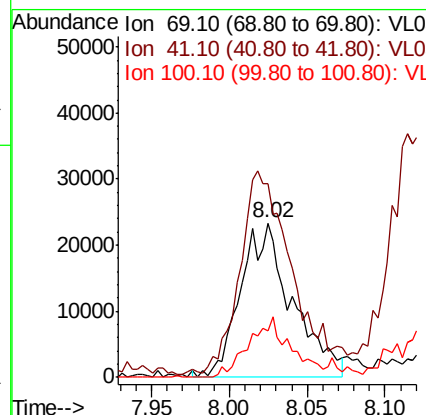
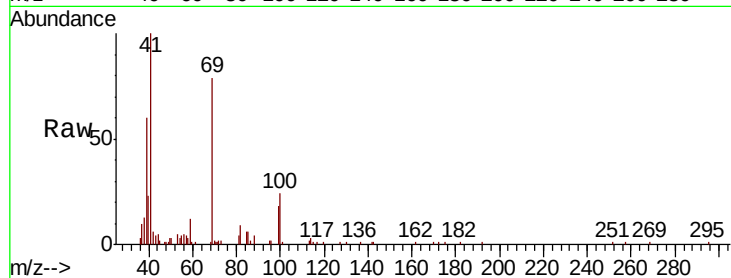
#43  
Methyl Methacrylate  
Concen: 0.492 ppbv  
RT: 8.02 min Scan# 1629  
Delta R.T. 0.02 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleID :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 137.4 | 118.1 | 177.1 |
| 100     | 0.0   | 27.6  | 41.4# |

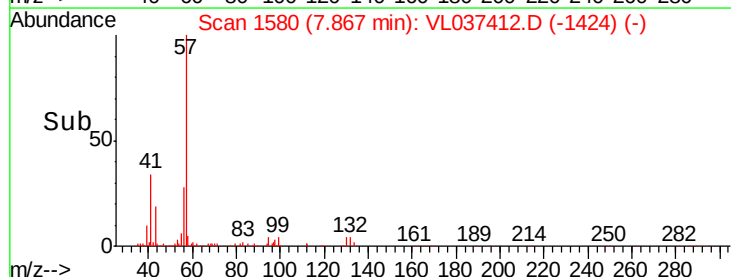
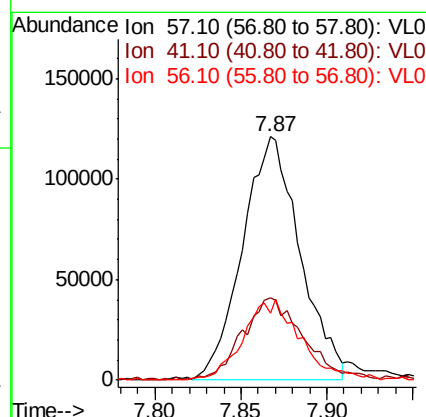
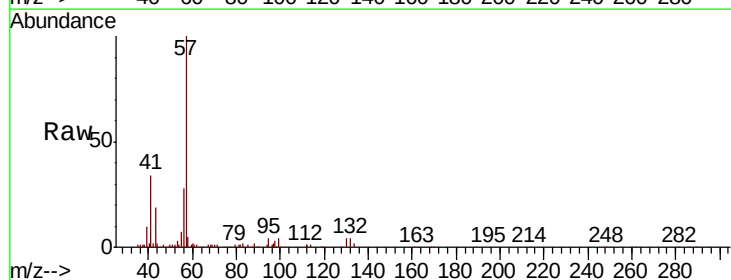
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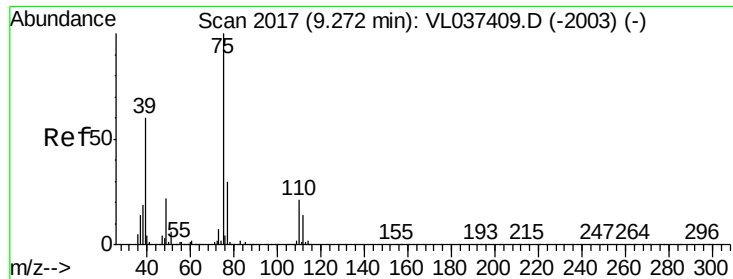
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#44  
2,2,4-Trimethylpentane  
Concen: 0.539 ppbv  
RT: 7.87 min Scan# 1580  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 36.2  | 26.4  | 39.6  |
| 56      | 33.6  | 25.0  | 37.4  |





#45

t-1,3-Dichloropropene

Concen: 0.412 ppbv m

RT: 9.29 min Scan# 2022

Delta R.T. 0.02 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 33868

Ion Ratio Lower Upper

75 100

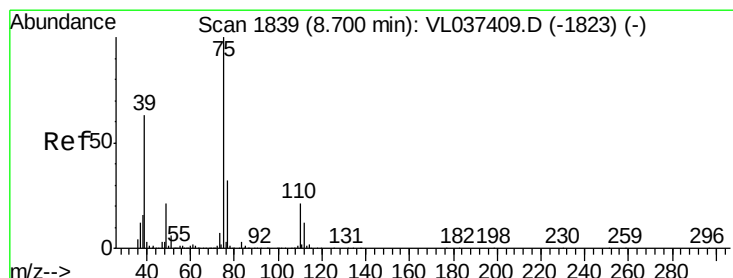
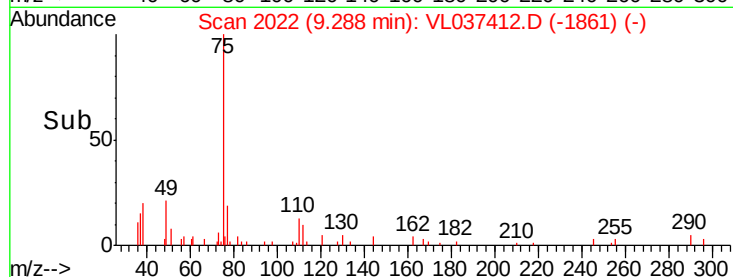
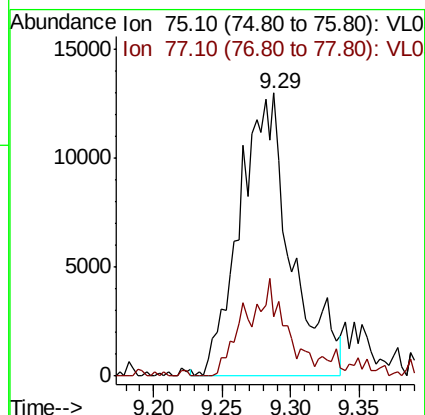
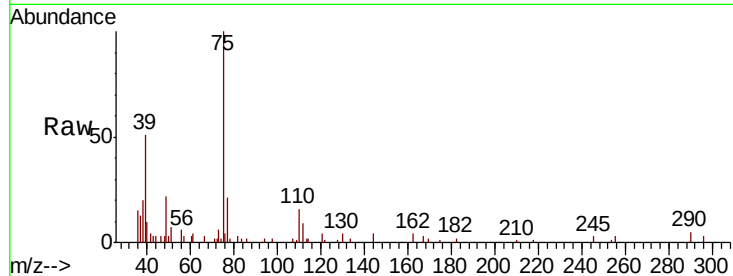
77 21.0 24.2 36.2#

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#46

cis-1,3-Dichloropropene

Concen: 0.453 ppbv m

RT: 8.70 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

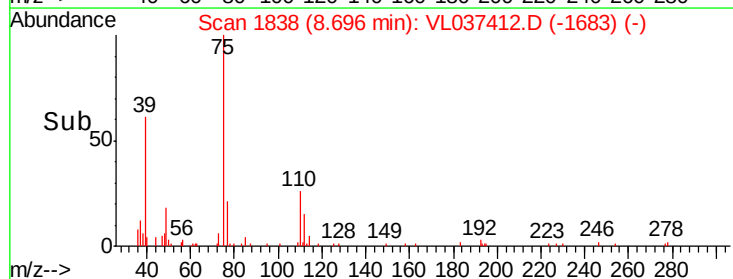
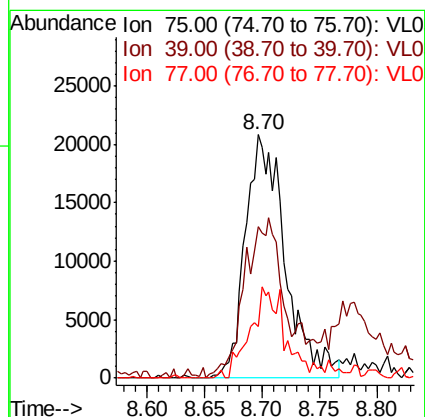
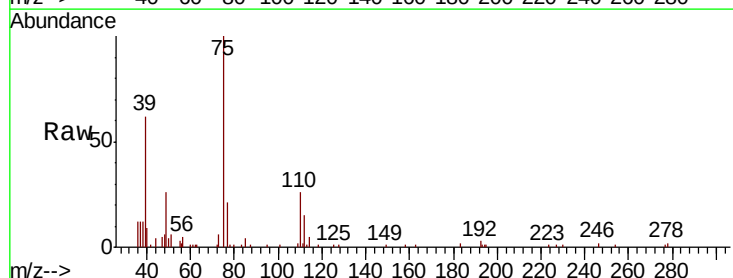
Tgt Ion: 75 Resp: 50335

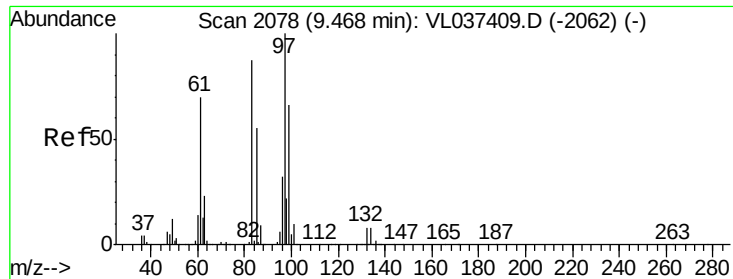
Ion Ratio Lower Upper

75 100

39 62.3 50.1 75.1

77 21.2 25.8 38.8#





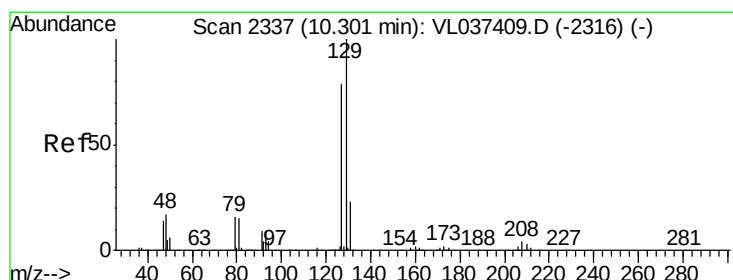
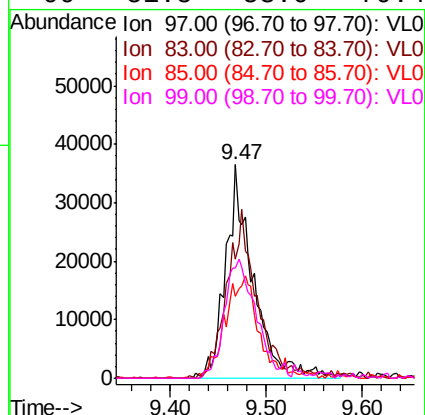
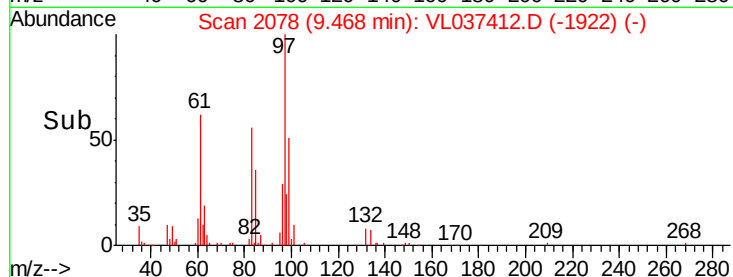
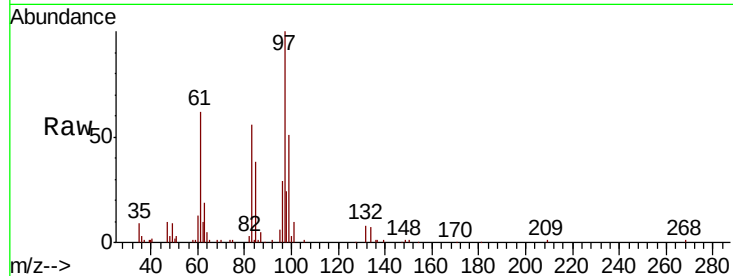
#47  
 1,1,2-Trichloroethane  
 Concen: 0.563 ppbv m  
 RT: 9.47 min Scan# 2078  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ion  | Ratio | Lower  | Upper |
|---------|------|-------|--------|-------|
| 97      | 100  |       |        |       |
| 83      | 55.8 | 69.5  | 104.3# |       |
| 85      | 38.3 | 43.8  | 65.8#  |       |
| 99      | 51.5 | 53.0  | 79.4#  |       |

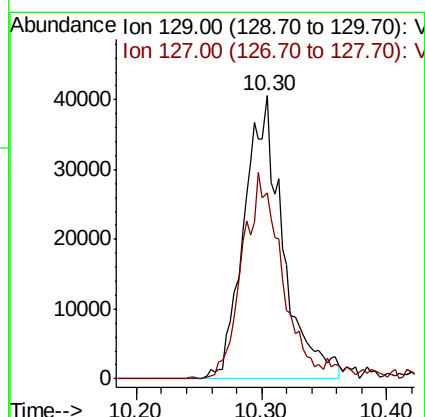
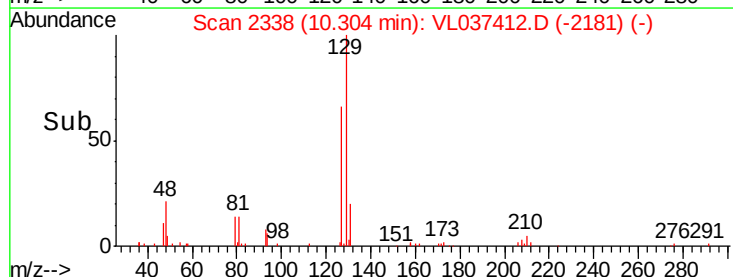
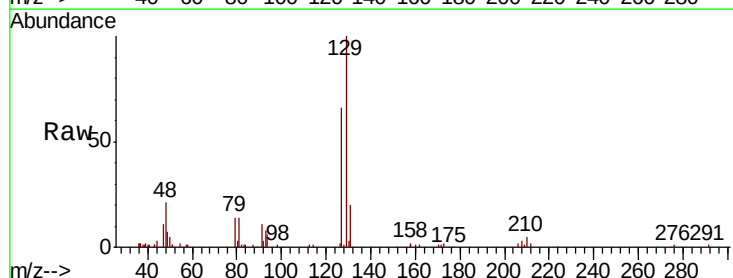
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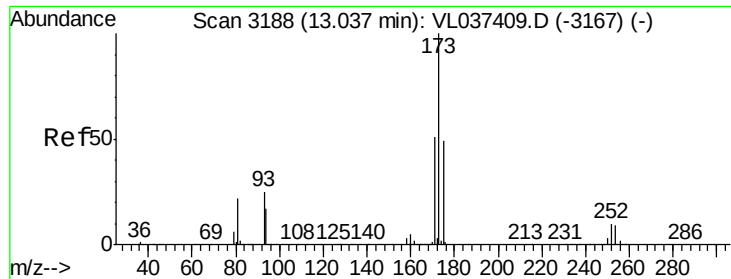
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#48  
 Dibromochloromethane  
 Concen: 0.458 ppbv m  
 RT: 10.30 min Scan# 2338  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

| Tgt Ion | Ion | Ratio | Lower  | Upper |
|---------|-----|-------|--------|-------|
| 129     | 100 |       |        |       |
| 127     | 0.0 | 39.6  | 118.8# |       |





#49

Bromoform

Concen: 0.395 ppbv m

RT: 13.04 min Scan# 3189

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

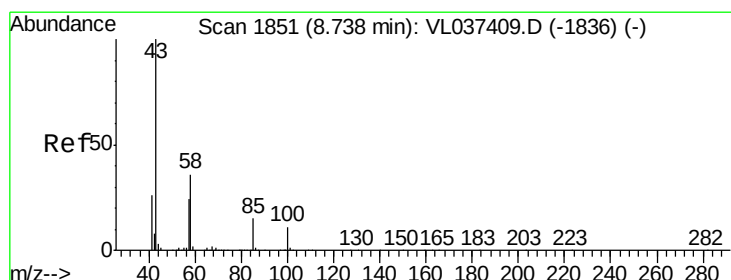
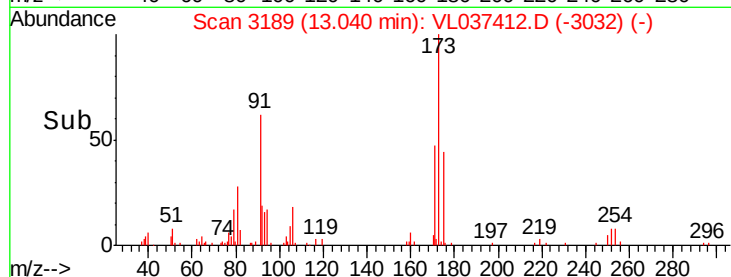
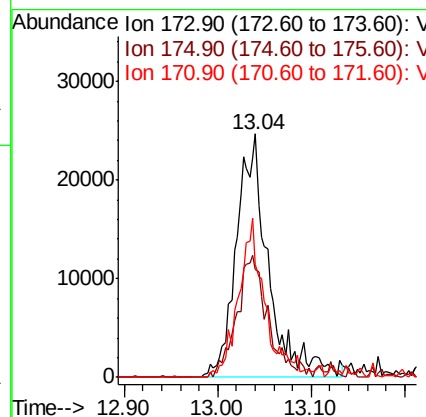
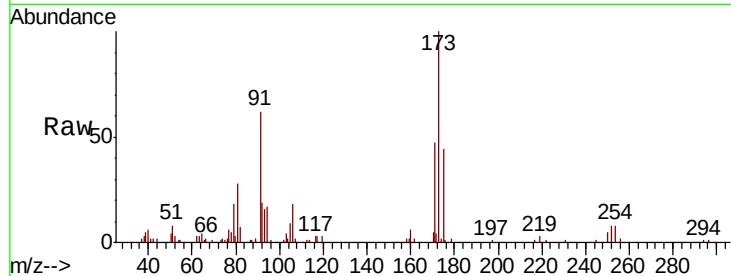
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 173   | Resp: | 59312 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 51.3  | 39.9  | 59.9  |
| 171       | 53.5  | 41.4  | 62.2  |

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#50

4-Methyl-2-Pentanone

Concen: 0.499 ppbv m

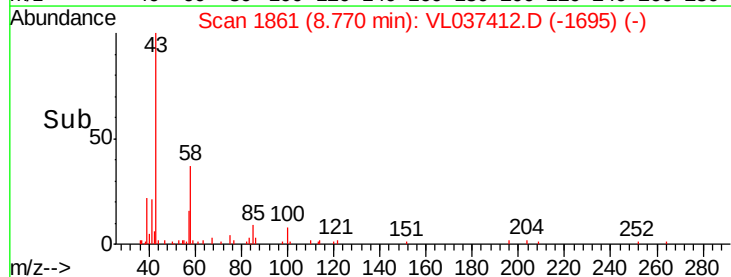
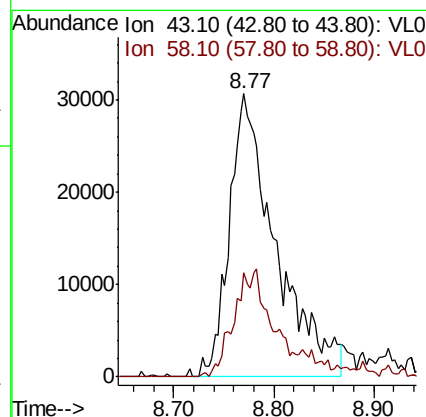
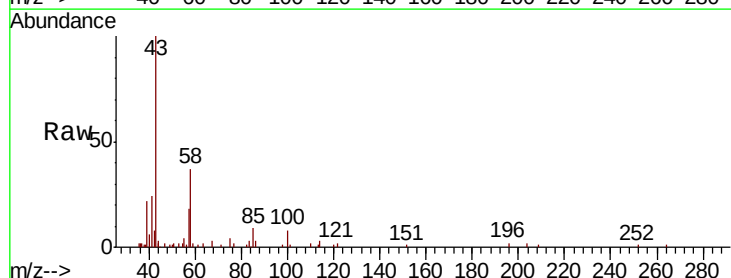
RT: 8.77 min Scan# 1861

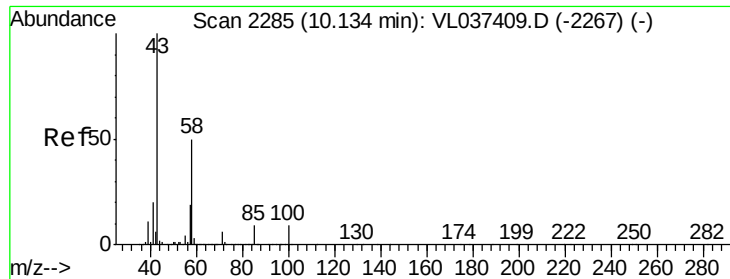
Delta R.T. 0.03 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 98206 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 0.0   | 29.9  | 44.9# |





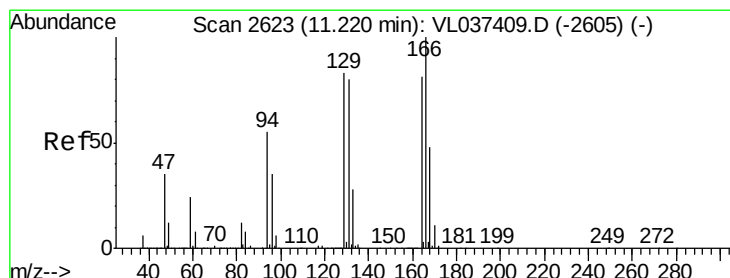
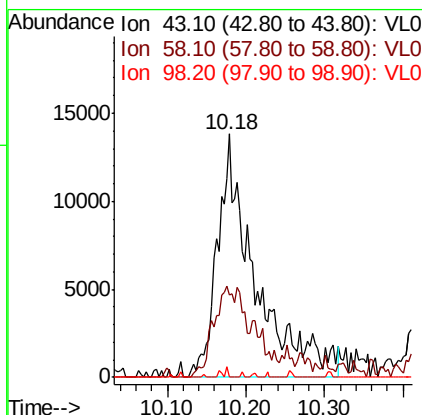
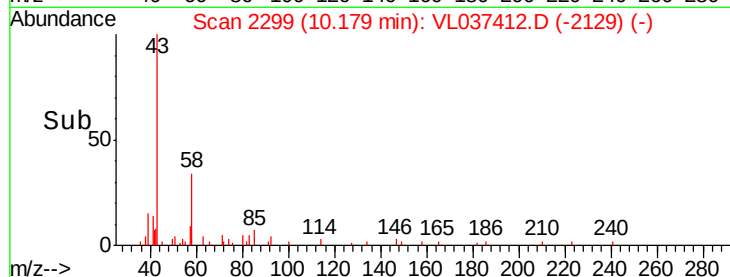
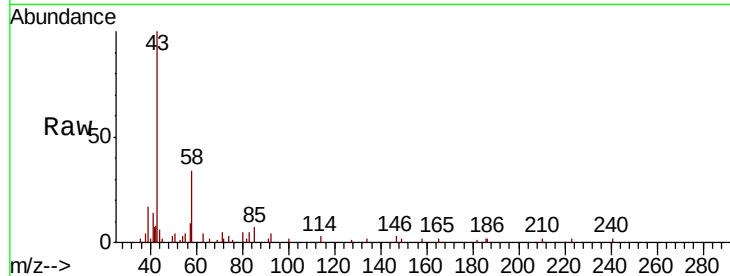
#51  
2-Hexanone  
Concen: 0.523 ppbv m  
RT: 10.18 min Scan# 2299  
Delta R.T. 0.05 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 0.0   | 39.9  | 59.9# |
| 98      | 0.0   | 0.2   | 0.2#  |

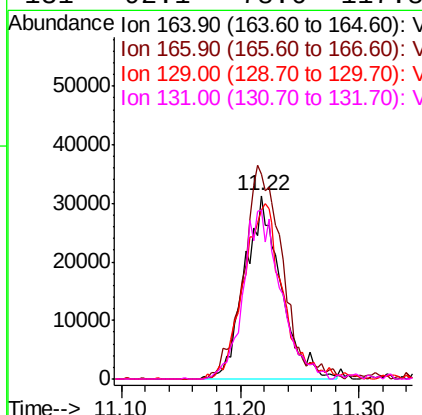
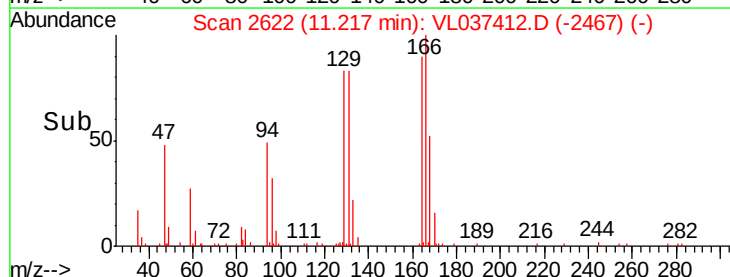
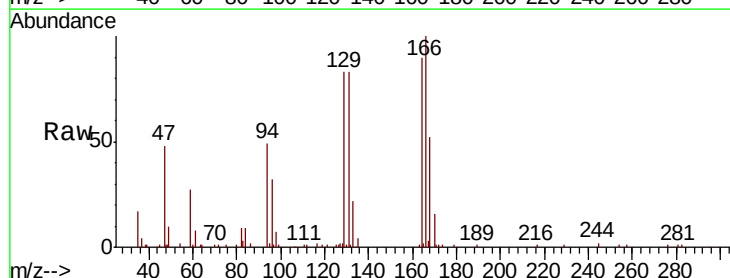
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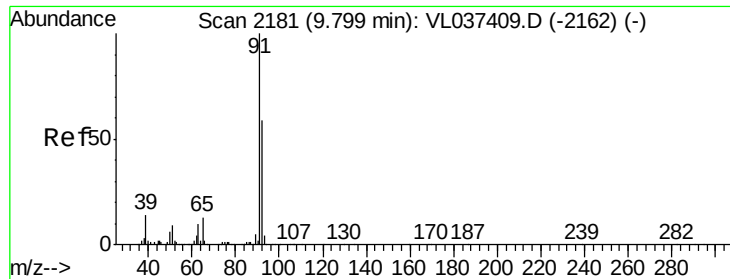
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#52  
Tetrachloroethene  
Concen: 0.526 ppbv m  
RT: 11.22 min Scan# 2622  
Delta R.T. -0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 111.5 | 98.6  | 147.8 |
| 129     | 92.0  | 82.0  | 123.0 |
| 131     | 92.1  | 78.6  | 117.8 |





#53

Toluene

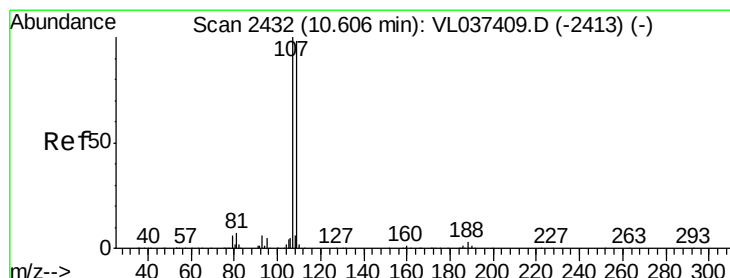
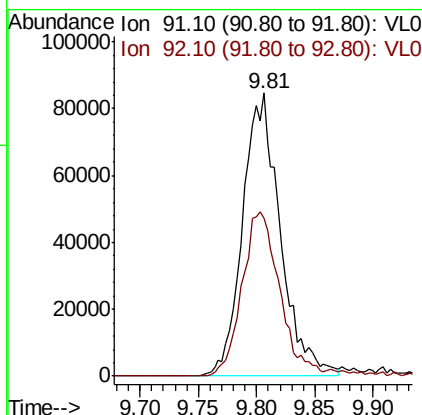
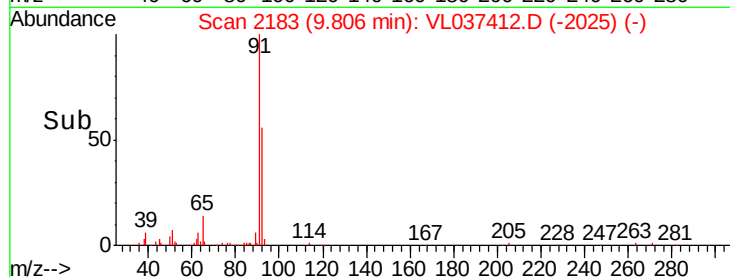
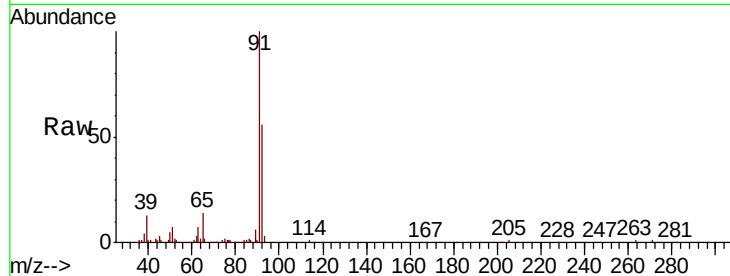
Concen: 0.522 ppbv m  
RT: 9.81 min Scan# 2183  
Delta R.T. 0.01 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 0.0   | 49.0  | 73.6# |

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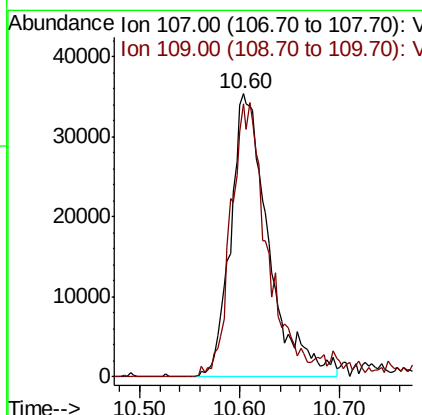
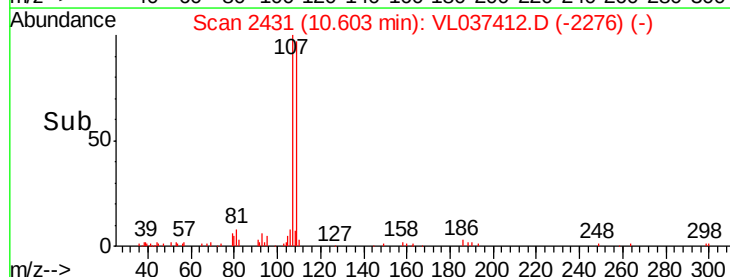
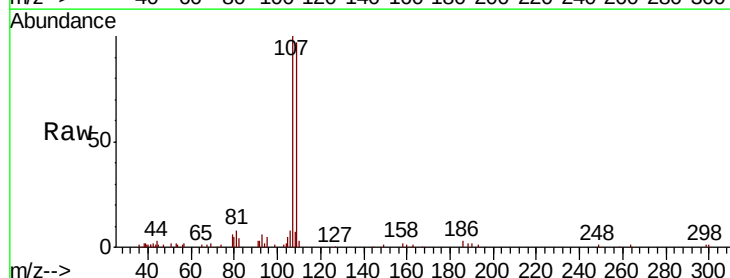


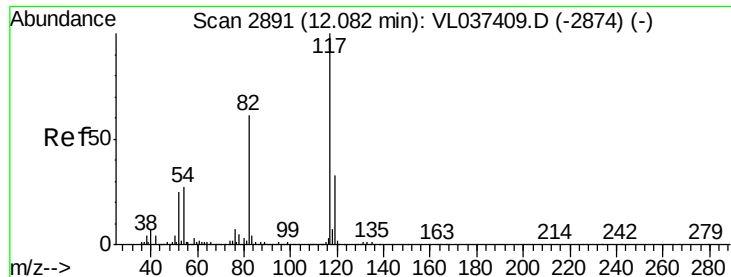
#54

1,2-Dibromoethane

Concen: 0.509 ppbv m  
RT: 10.60 min Scan# 2431  
Delta R.T. -0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 96.7  | 78.4  | 117.6 |





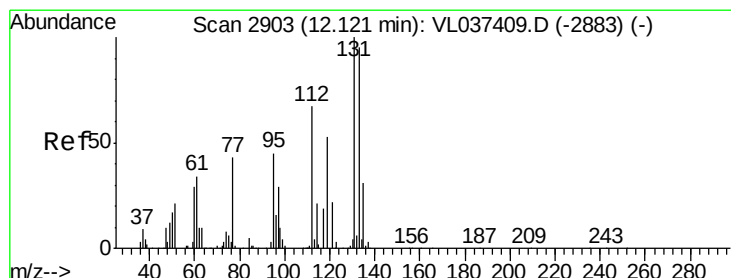
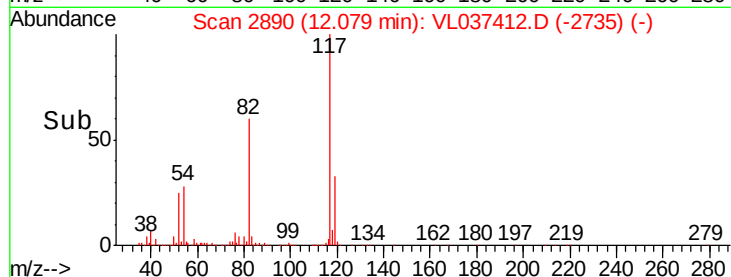
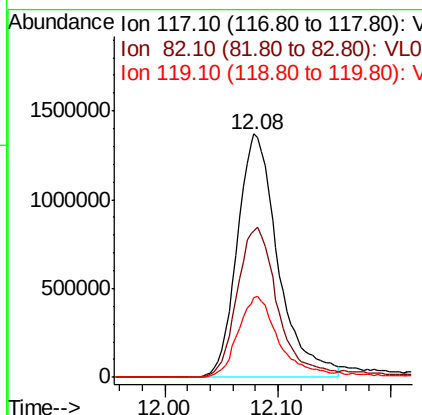
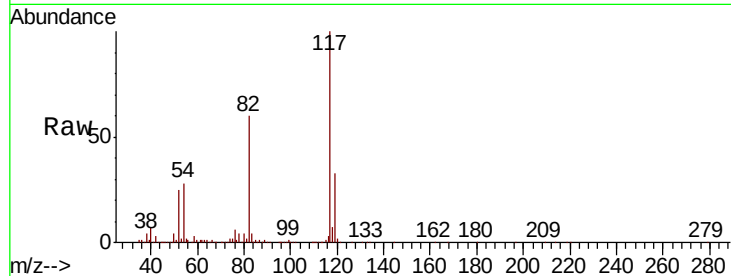
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.08 min Scan# 2890  
Delta R.T. -0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 64.5  | 53.1  | 79.7  |
| 119     | 35.2  | 28.0  | 42.0  |

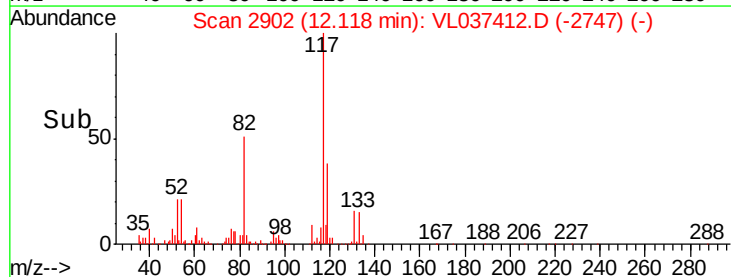
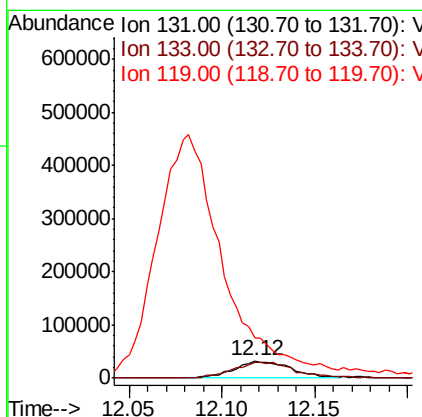
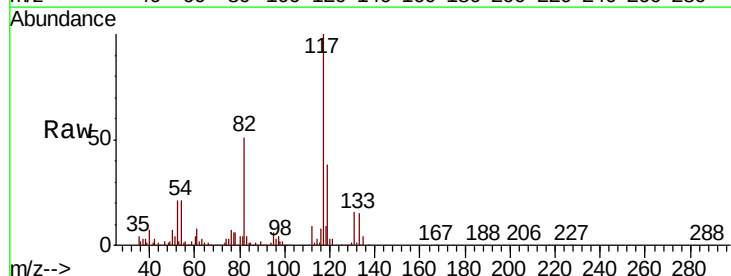
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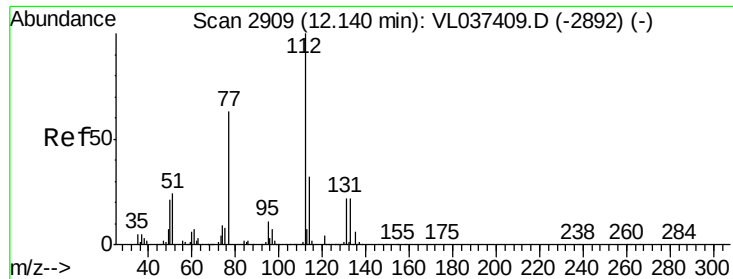


#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.485 ppbv  
RT: 12.12 min Scan# 2902  
Delta R.T. -0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 131     | 100    |       |       |
| 133     | 112.6  | 77.1  | 115.7 |
| 119     | 1911.2 | 59.7  | 89.5# |







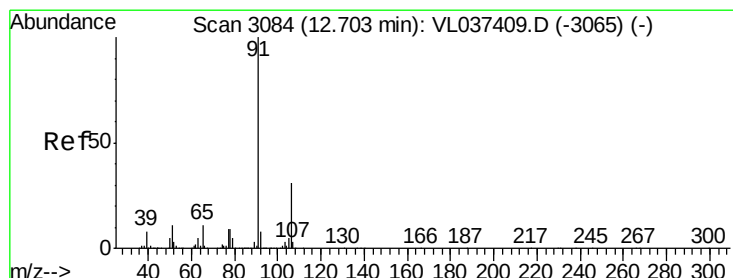
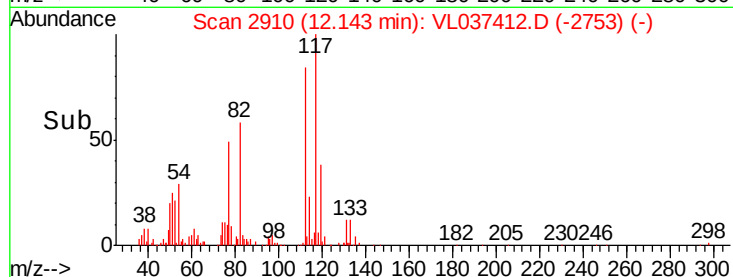
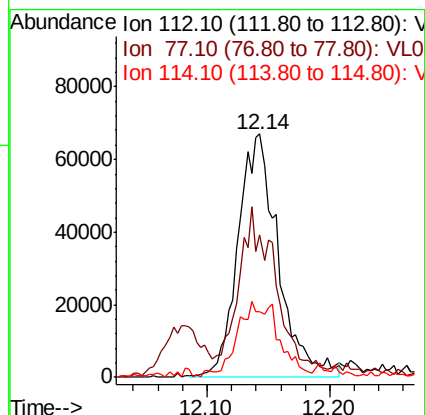
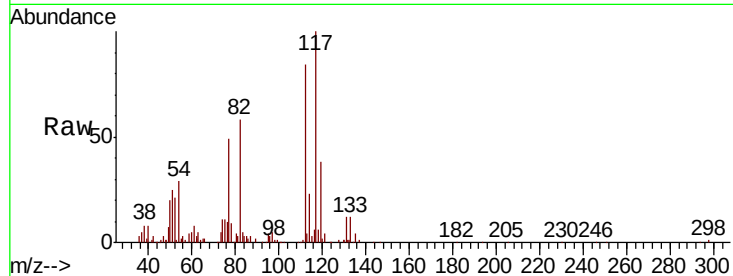
#57  
Chlorobenzene  
Concen: 0.573 ppbv m  
RT: 12.14 min Scan# 2910  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 58.6  | 50.0  | 75.0  |
| 114     | 27.2  | 28.5  | 34.9# |

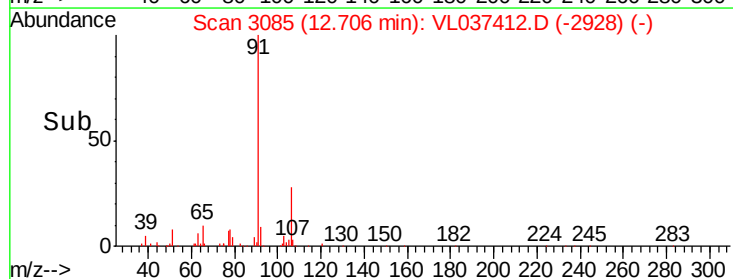
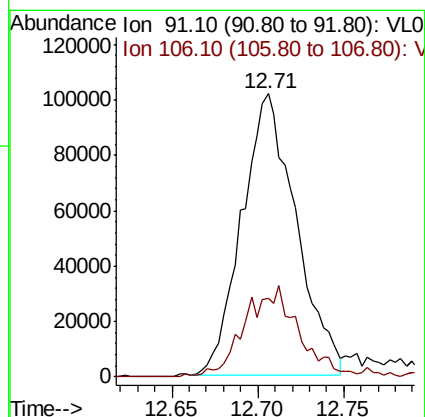
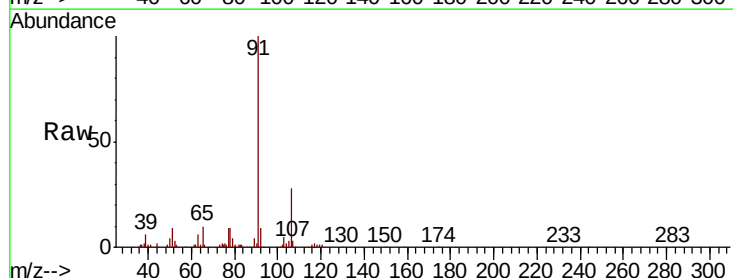
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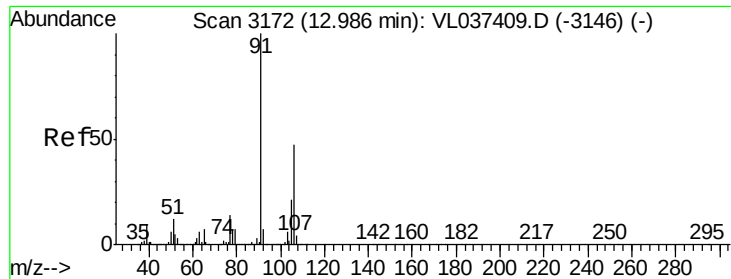
apatel  
8/13/2021 11:06:52 AM



#58  
Ethyl Benzene  
Concen: 0.485 ppbv  
RT: 12.71 min Scan# 3085  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 27.6  | 24.7  | 37.1  |





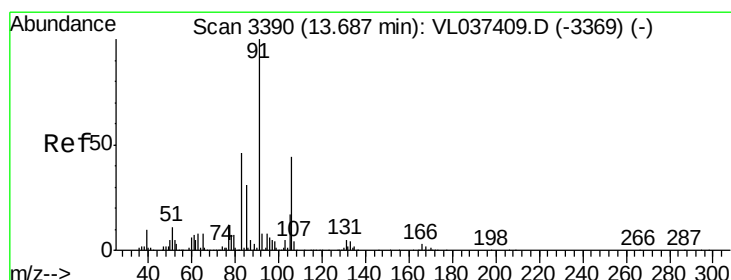
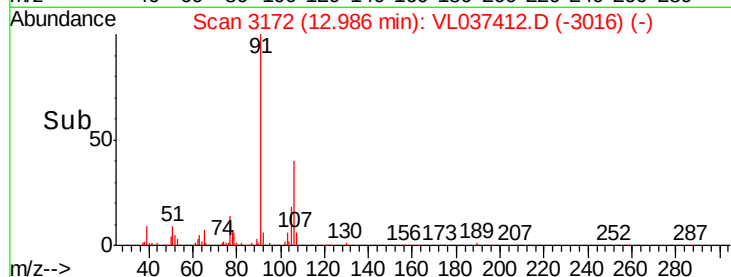
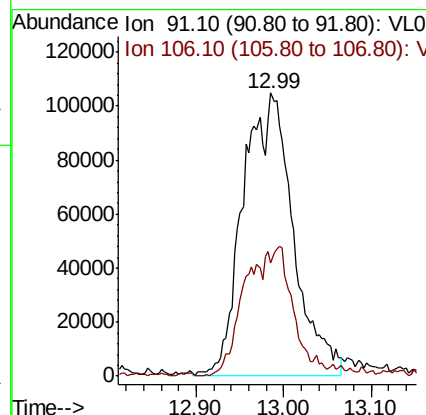
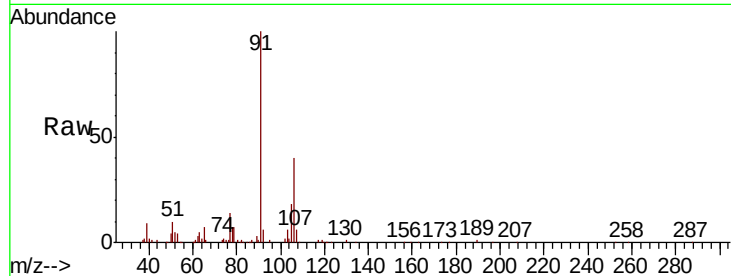
#59  
m/p-Xylene  
Concen: 1.064 ppbv m  
RT: 12.99 min Scan# 3172  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampled :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 44.8  | 36.6  | 54.8  |

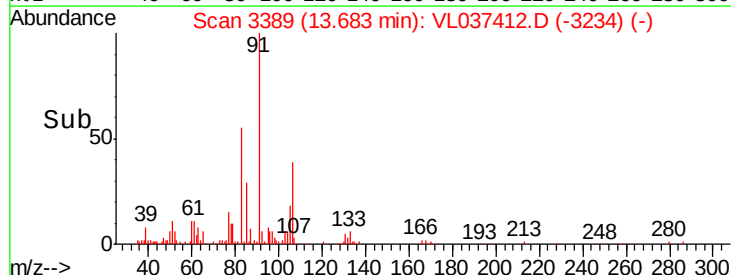
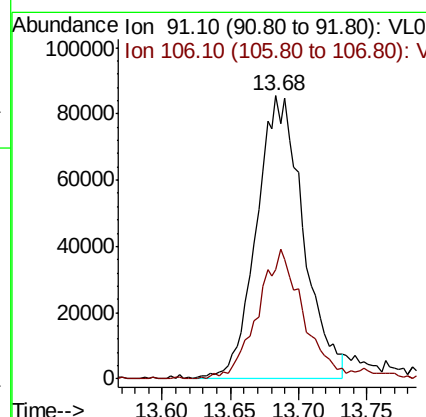
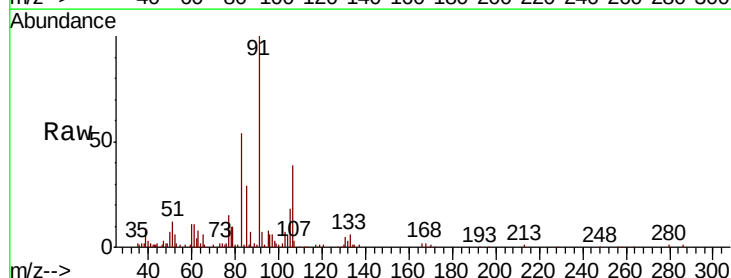
Manual Integrations  
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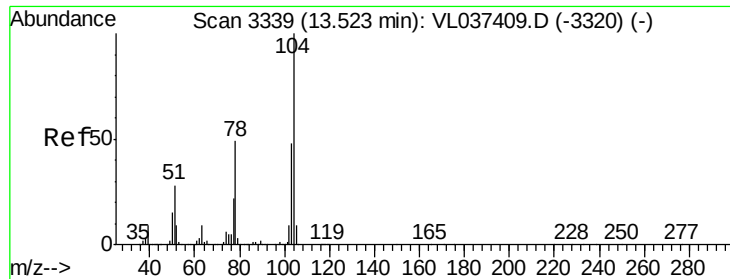
apatel  
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#60  
o-Xylene  
Concen: 0.554 ppbv  
RT: 13.68 min Scan# 3389  
Delta R.T. -0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 46.8  | 24.1  | 72.2  |





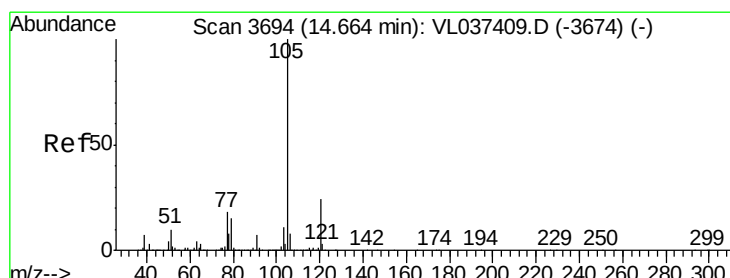
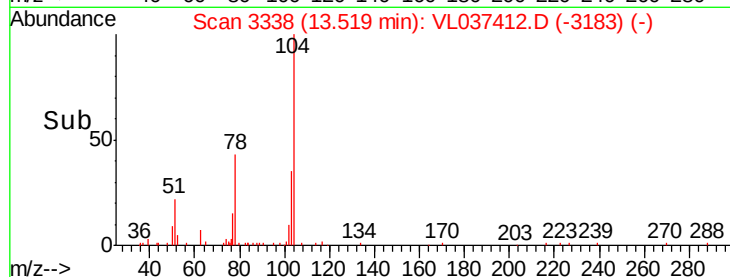
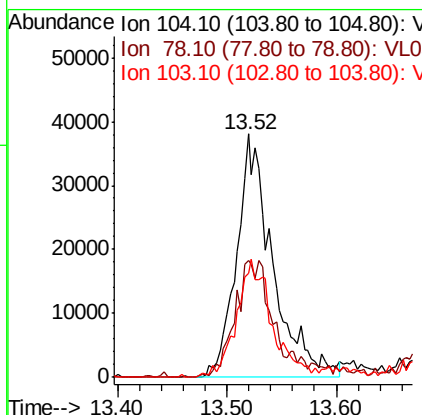
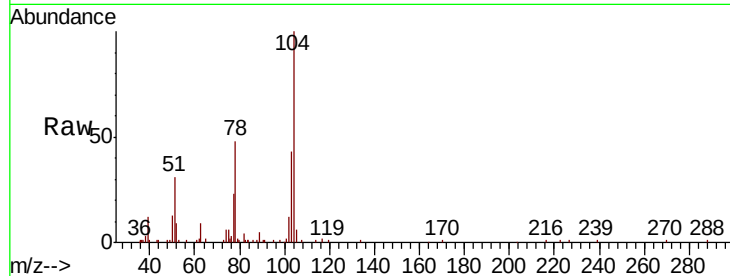
#61  
Stvrene  
Concen: 0.458 ppbv m  
RT: 13.52 min Scan# 3338  
Delta R.T. -0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 0.0   | 41.5  | 62.3# |
| 103     | 0.0   | 40.2  | 60.2# |

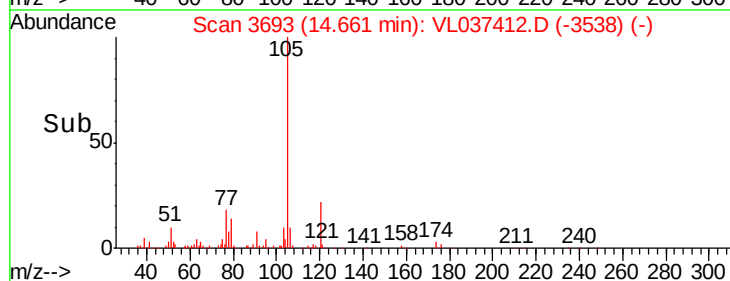
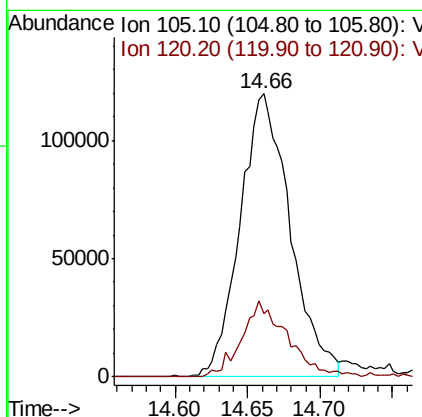
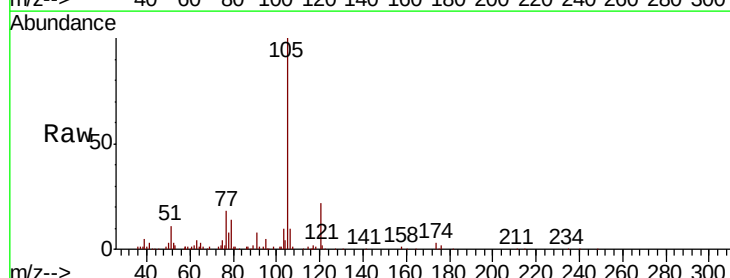
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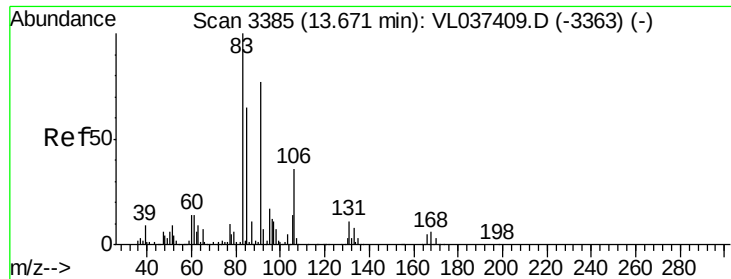
apatel  
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#62  
Isopropylbenzene  
Concen: 0.557 ppbv  
RT: 14.66 min Scan# 3693  
Delta R.T. -0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 24.9  | 21.6  | 32.4  |





#63

1,1,2,2-Tetrachloroethane

Concen: 0.528 ppbv m

RT: 13.67 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

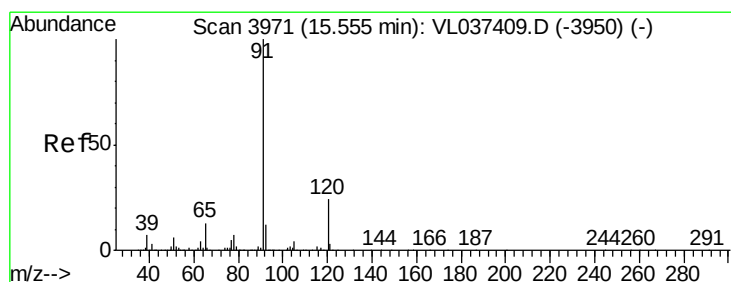
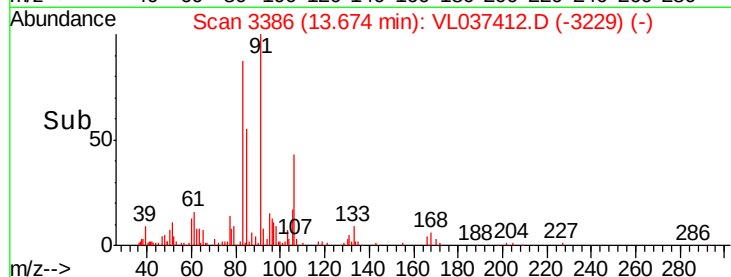
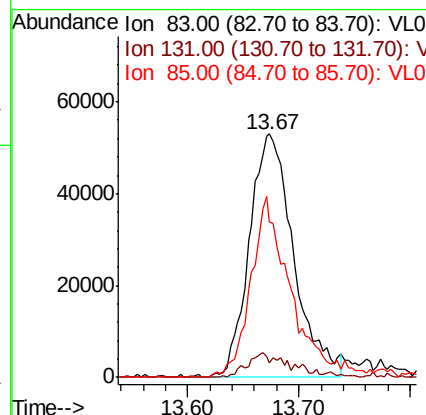
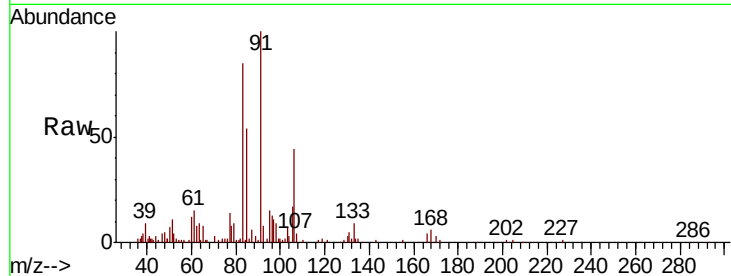
ClientSampleId :

VSTDIC0.5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 146458 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 10.1  | 5.1   | 15.4   |
| 85        | 66.8  | 33.4  | 100.2  |

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#64

n-propylbenzene

Concen: 0.547 ppbv m

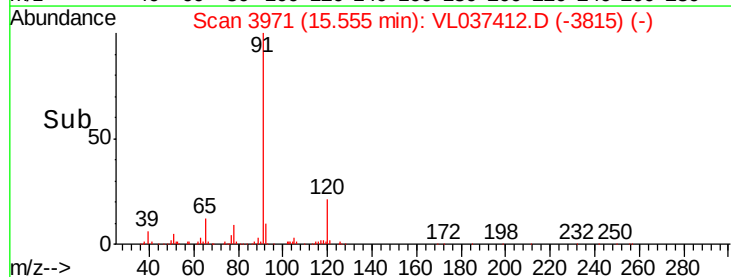
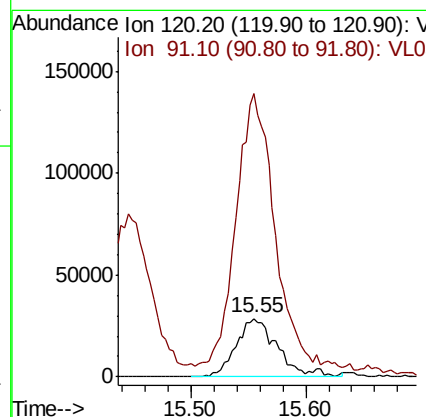
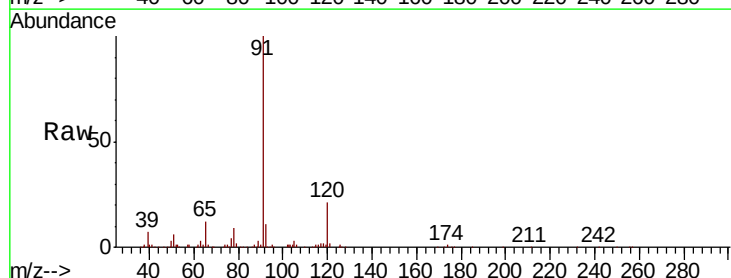
RT: 15.55 min Scan# 3971

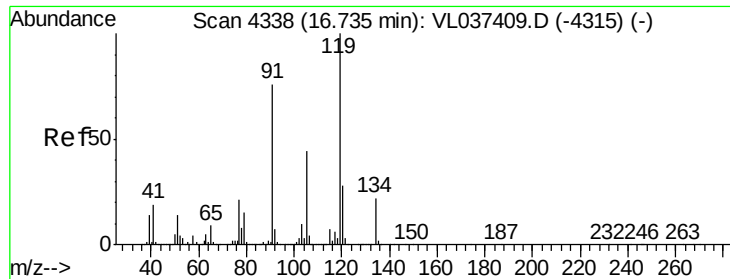
Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 120   | Resp: | 71724 |
| Ion Ratio | Lower | Upper |       |
| 120       | 100   |       |       |
| 91        | 495.6 | 388.4 | 582.6 |





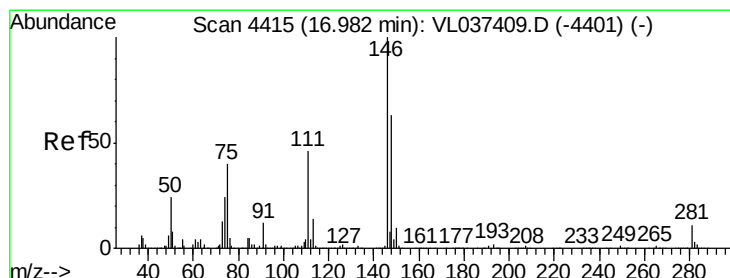
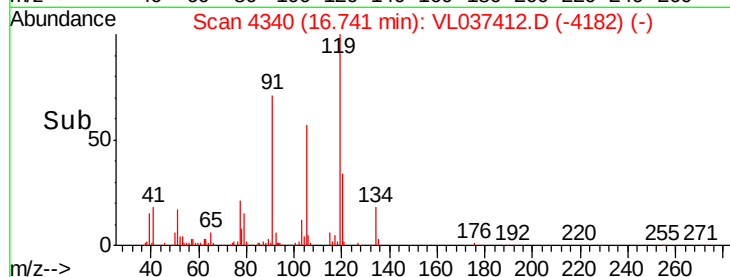
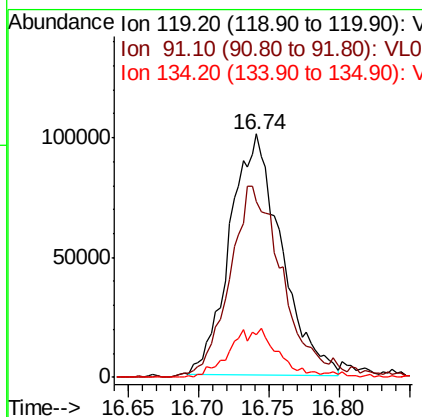
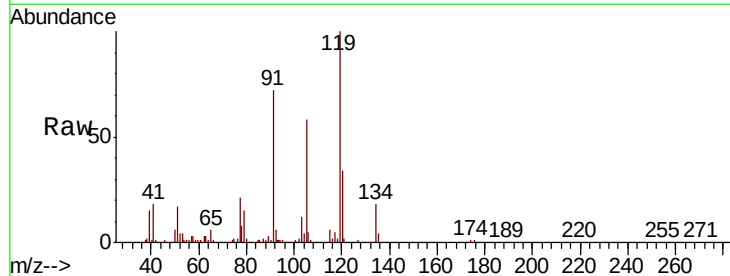
#65  
tert-Butylbenzene  
Concen: 0.552 ppbv  
RT: 16.74 min Scan# 4340  
Delta R.T. 0.01 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 257047 |       |       |
| 91      | 83.7  | 62.2   | 93.4  |       |
| 134     | 19.6  | 16.1   | 24.1  |       |

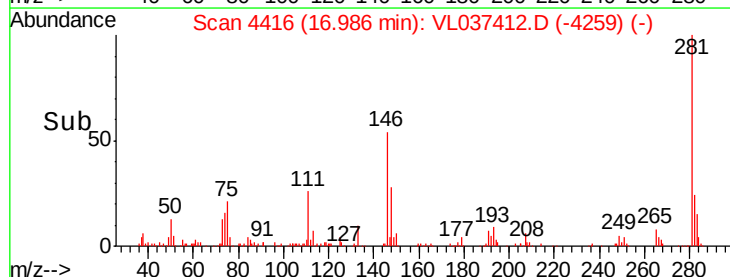
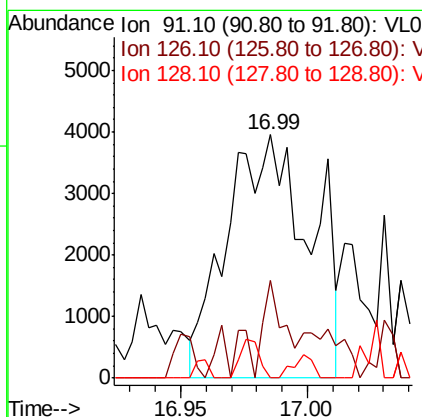
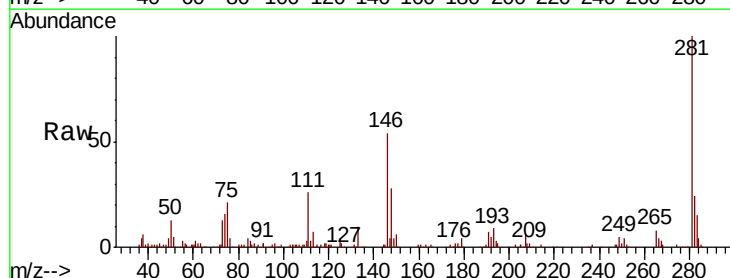
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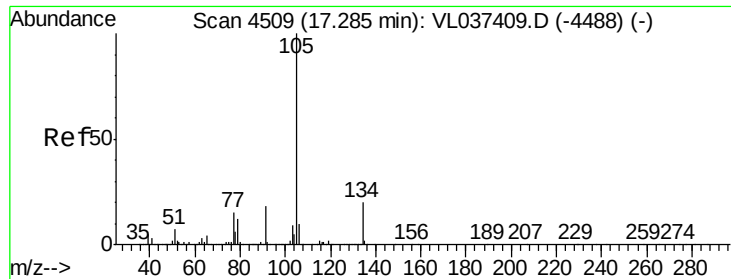
apatel  
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#66  
Benzyl Chloride  
Concen: 0.459 ppbv m  
RT: 16.99 min Scan# 4416  
Delta R.T. 0.00 min  
Lab File: VL037412.D  
Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 91      | 100   | 9061 |       |       |
| 126     | 6.8   | 14.3 | 21.5# |       |
| 128     | 7.0   | 4.6  | 7.0#  |       |





#67

sec-Butylbenzene

Concen: 0.537 ppbv m

RT: 17.28 min Scan# 4509

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 343911

Ion Ratio Lower Upper

105 100

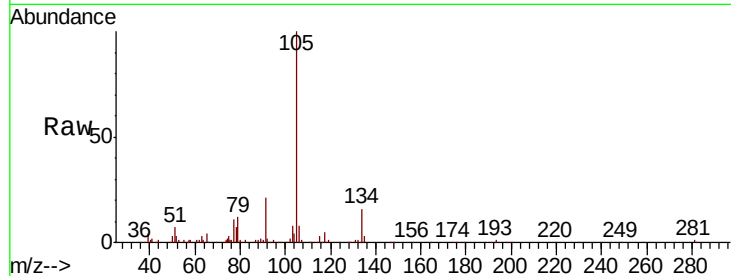
134 18.1 15.4 23.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.28

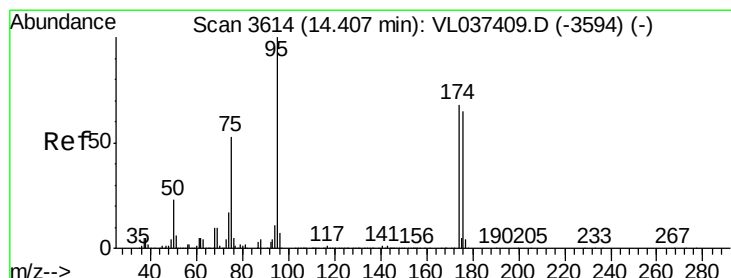
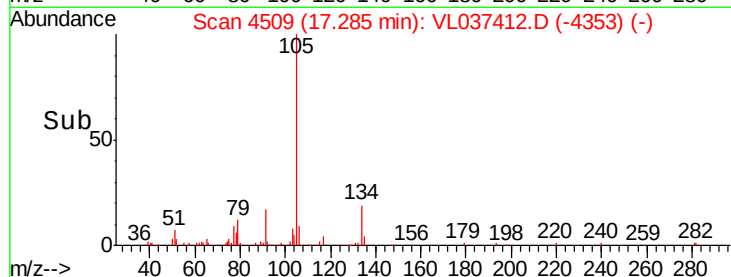
150000

100000

50000

0

Time--> 17.20 17.30



#68

1-Bromo-4-Fluorobenzene

Concen: 9.456 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

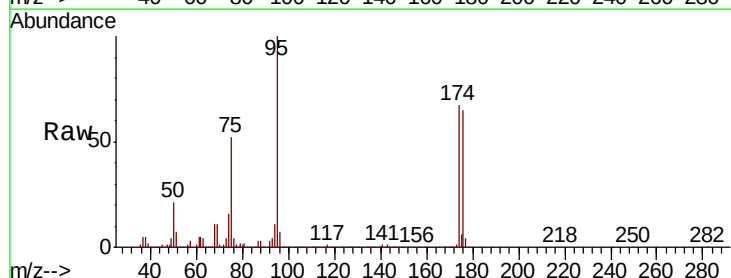
Tgt Ion: 95 Resp: 2426823

Ion Ratio Lower Upper

95 100

174 77.0 59.6 89.4

175 6.1 4.3 6.5



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

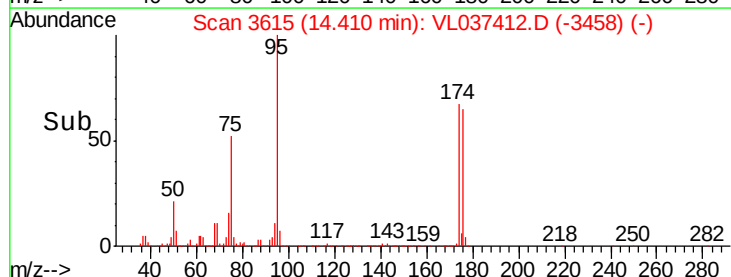
14.41

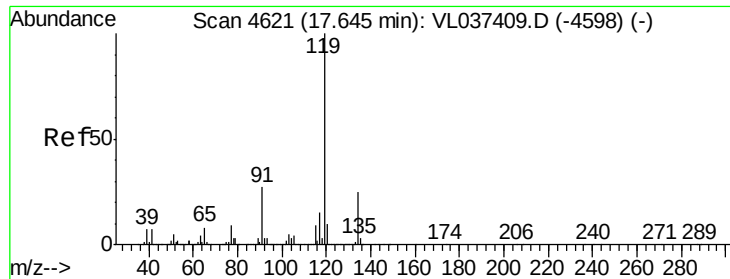
1000000

500000

0

Time--> 14.30 14.40





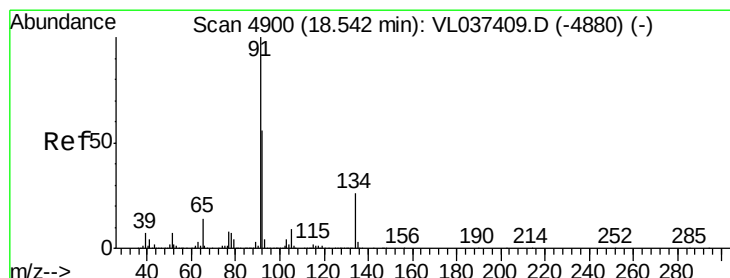
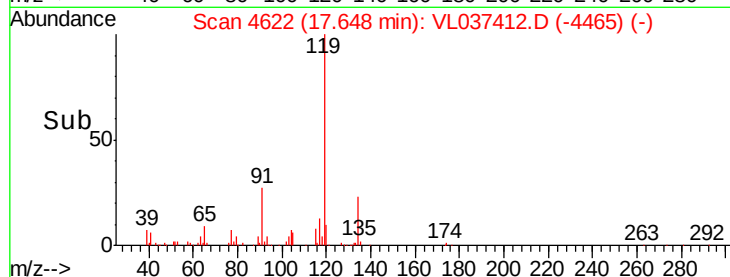
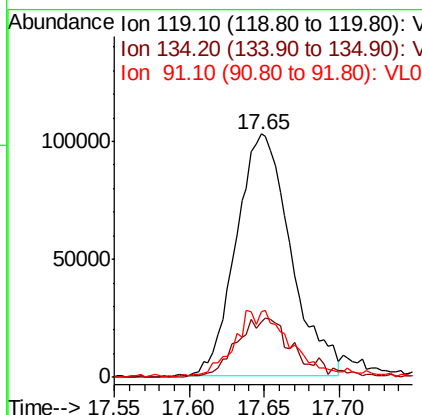
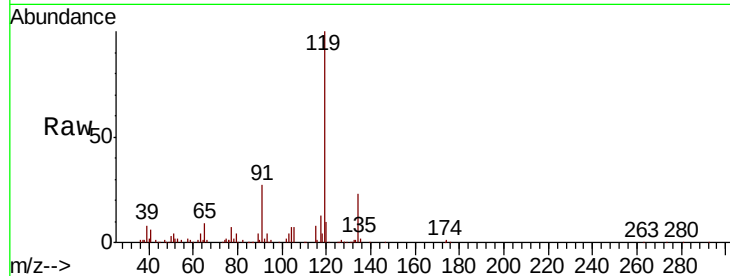
#69  
 p-Isopropyltoluene  
 Concen: 0.505 ppbv  
 RT: 17.65 min Scan# 4622  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 261088 |       |       |
| 134     | 26.6  |        | 20.6  | 31.0  |
| 91      | 29.4  |        | 22.4  | 33.6  |

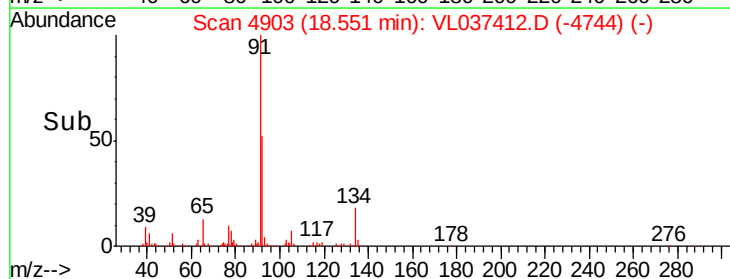
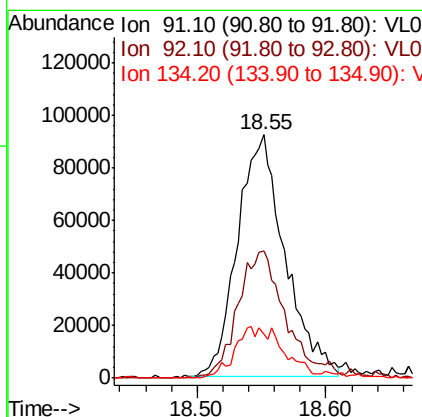
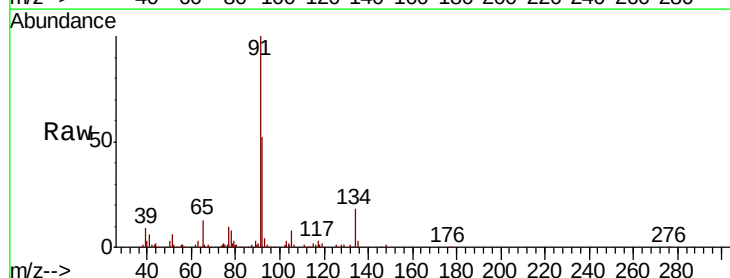
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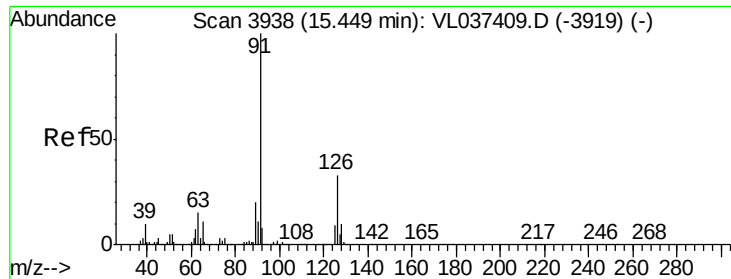
apatel  
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#70  
 n-Butylbenzene  
 Concen: 0.485 ppbv  
 RT: 18.55 min Scan# 4903  
 Delta R.T. 0.01 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 235486 |       |       |
| 92      | 53.8  |        | 44.2  | 66.2  |
| 134     | 23.5  |        | 19.5  | 29.3  |





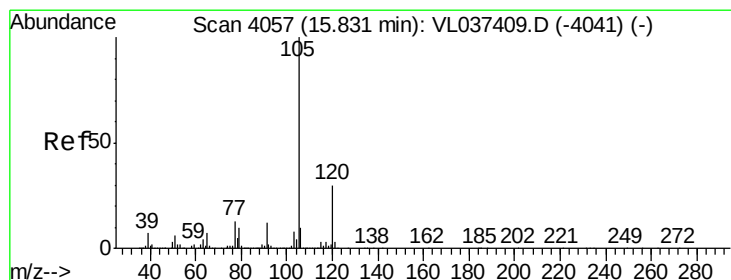
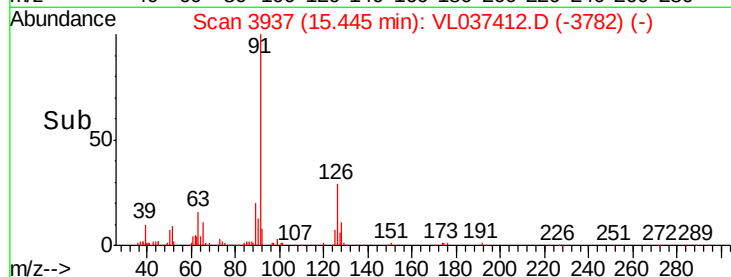
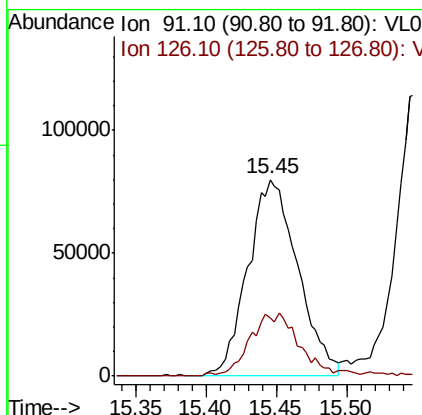
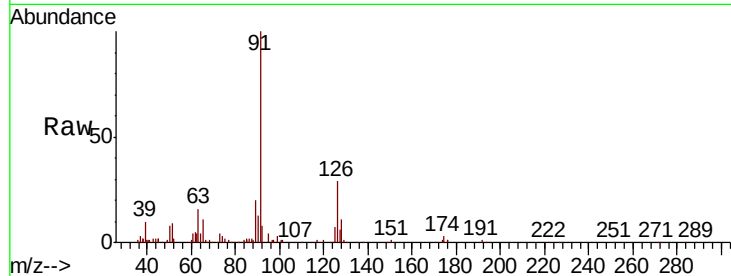
#71  
 2-Chlorotoluene  
 Concen: 0.526 ppbv  
 RT: 15.45 min Scan# 3937  
 Delta R.T. -0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 32.8  | 13.5  | 53.9  |

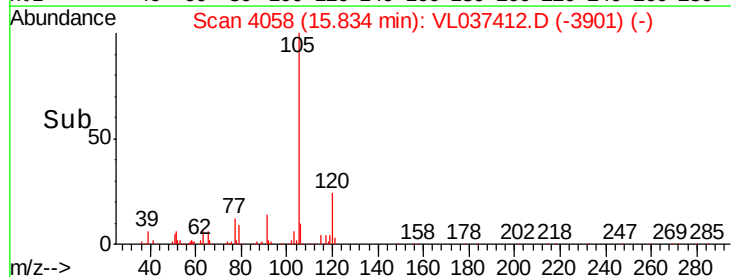
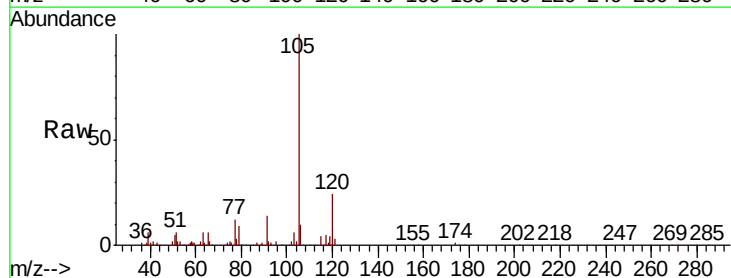
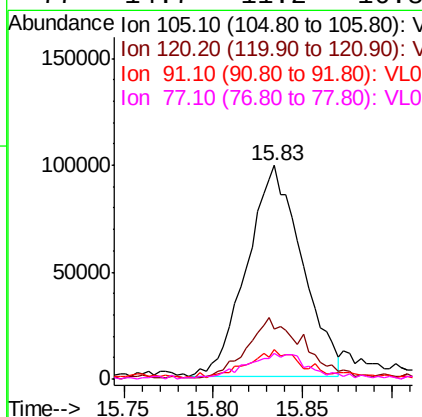
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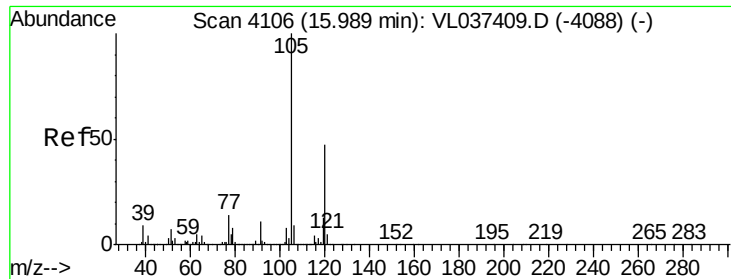


#72  
 4-Ethyltoluene  
 Concen: 0.494 ppbv  
 RT: 15.83 min Scan# 4058  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 32.2  | 25.0  | 37.4  |
| 91      | 14.7  | 11.2  | 16.8  |
| 77      | 14.7  | 11.2  | 16.8  |







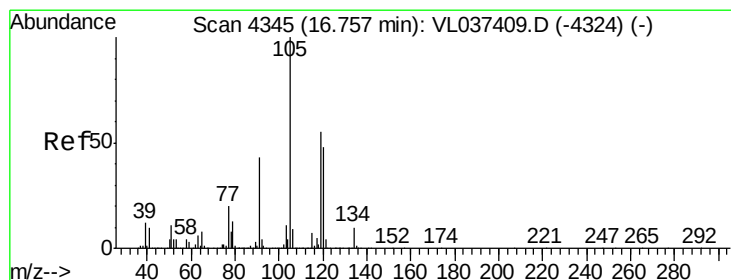
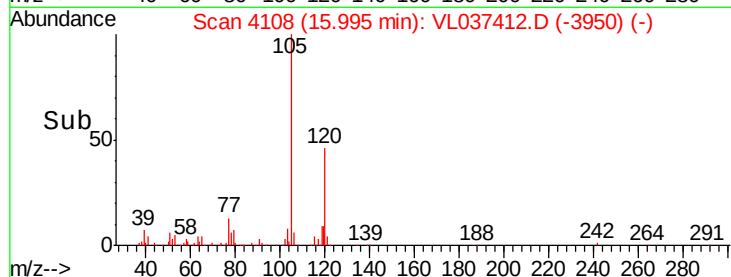
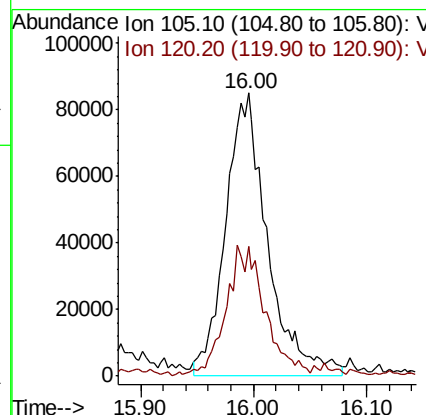
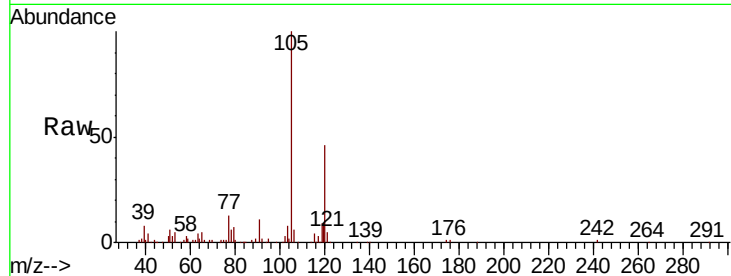
#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.553 ppbv m  
 RT: 16.00 min Scan# 4108  
 Delta R.T. 0.01 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 46.0  | 37.4  | 56.0  |

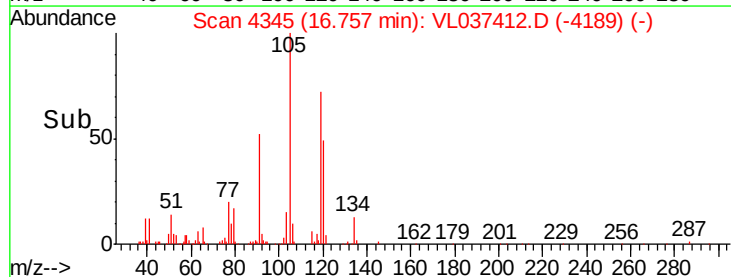
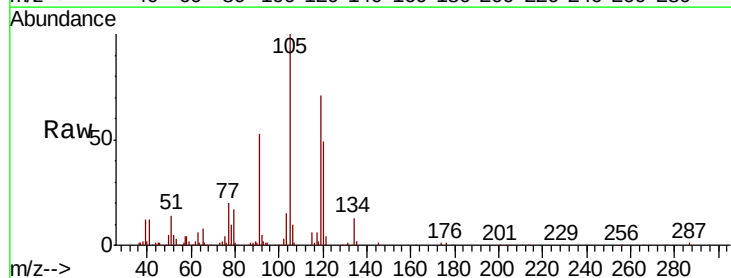
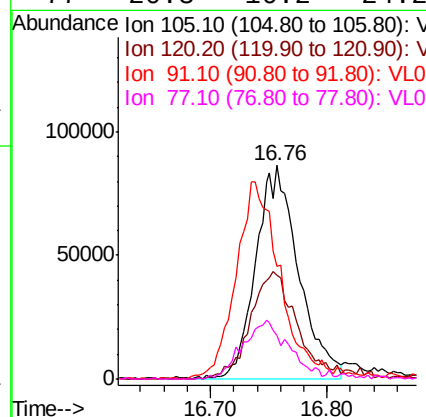
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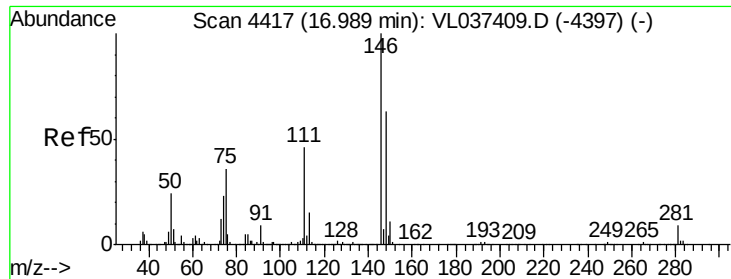
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#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.546 ppbv m  
 RT: 16.76 min Scan# 4345  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 48.8  | 38.2  | 57.2  |
| 91      | 52.6  | 35.4  | 53.2  |
| 77      | 20.3  | 16.2  | 24.2  |





#75

1,3-Dichlorobenzene

Concen: 0.555 ppbv m

RT: 16.99 min Scan# 4418

Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

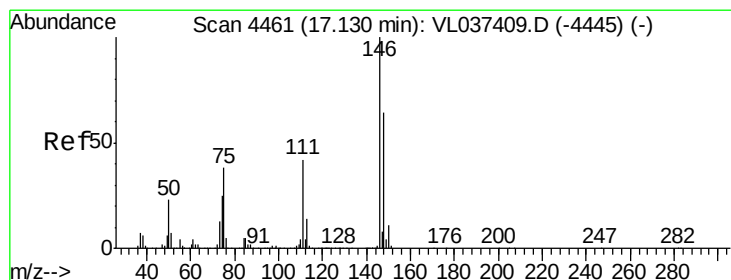
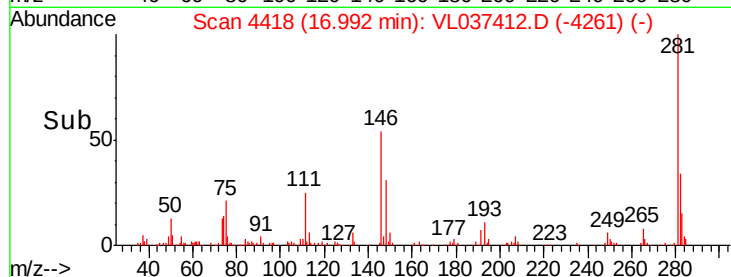
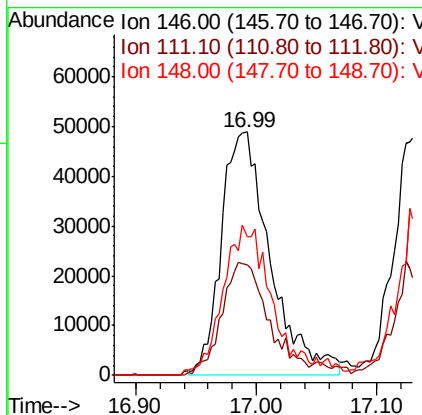
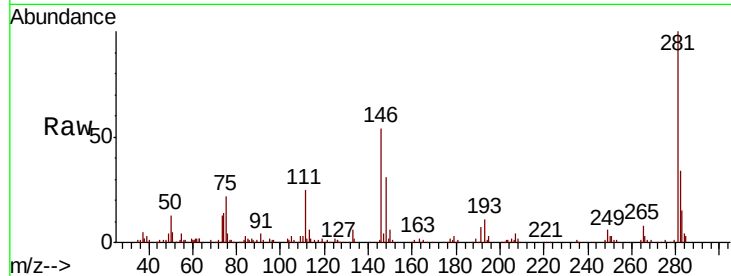
ClientSampleId :

VSTDIC0.5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 136334 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 47.0  | 22.9  | 68.7   |
| 148       | 62.6  | 32.0  | 96.2   |

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#76

1,4-Dichlorobenzene

Concen: 0.578 ppbv m

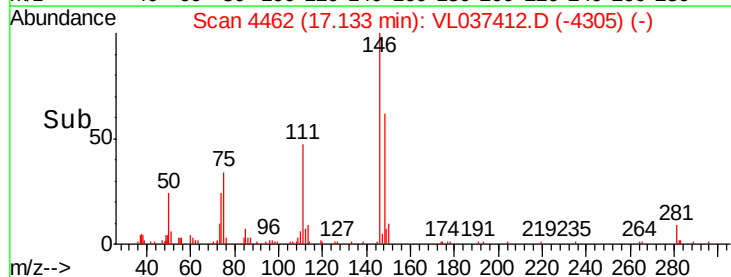
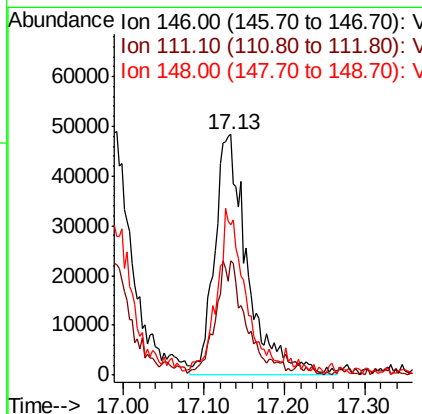
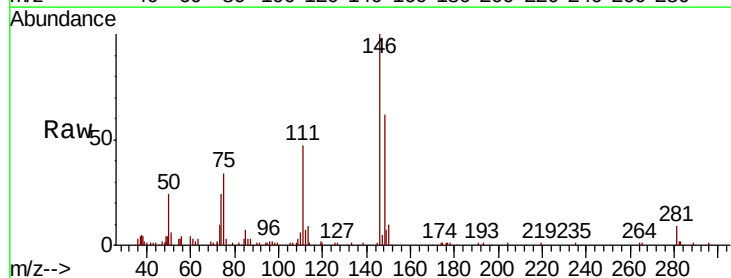
RT: 17.13 min Scan# 4462

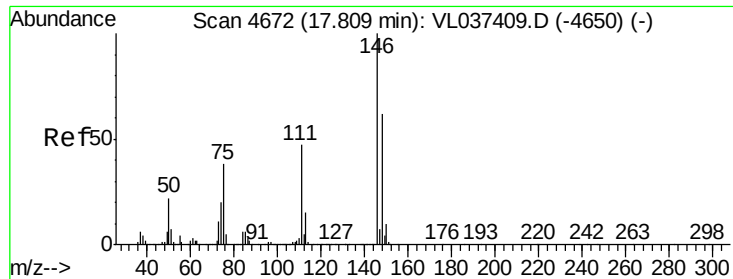
Delta R.T. 0.00 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 139259 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 45.0  | 22.8  | 68.4   |
| 148       | 61.3  | 34.0  | 102.0  |





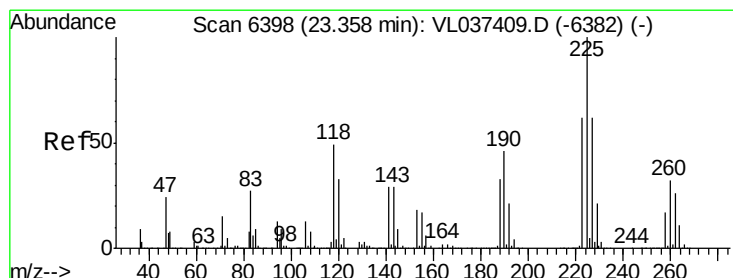
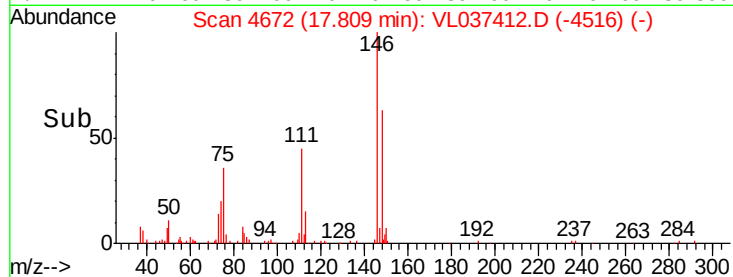
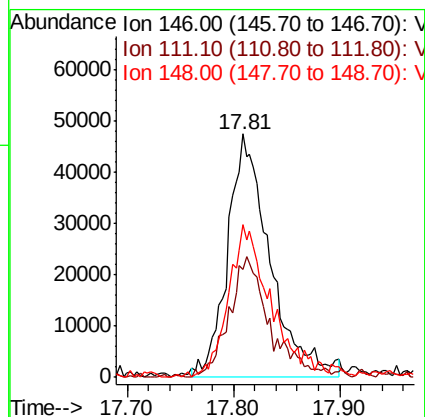
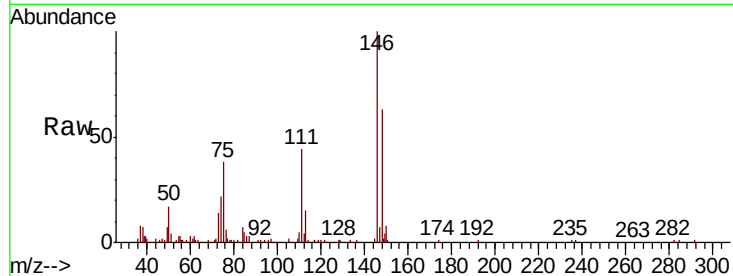
#77  
 1,2-Dichlorobenzene  
 Concen: 0.556 ppbv m  
 RT: 17.81 min Scan# 4672  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.2  | 23.8  | 71.5  |
| 148     | 66.4  | 32.5  | 97.4  |

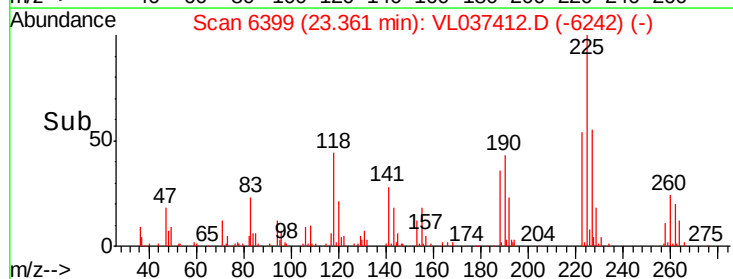
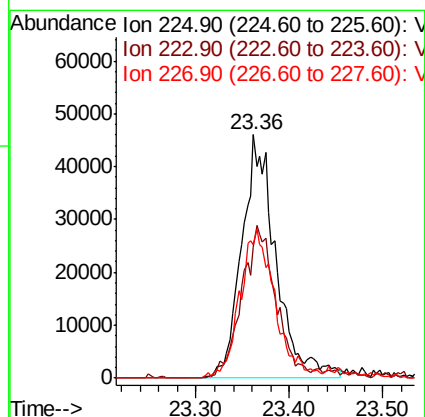
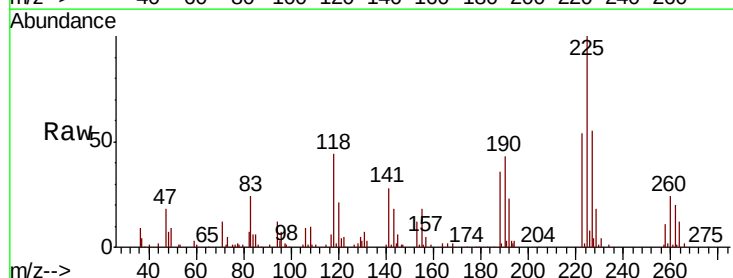
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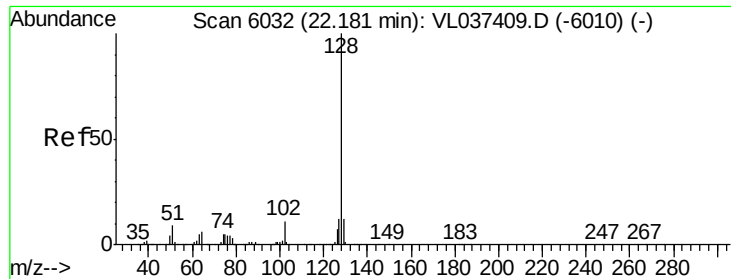
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.618 ppbv m  
 RT: 23.36 min Scan# 6399  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 66.0  | 51.2  | 76.8  |
| 227     | 62.3  | 52.2  | 78.4  |





#79

Naphthalene

Concen: 0.347 ppbv m

RT: 22.20 min Scan# 6039

Delta R.T. 0.02 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

Instrument :

MSVOA\_L

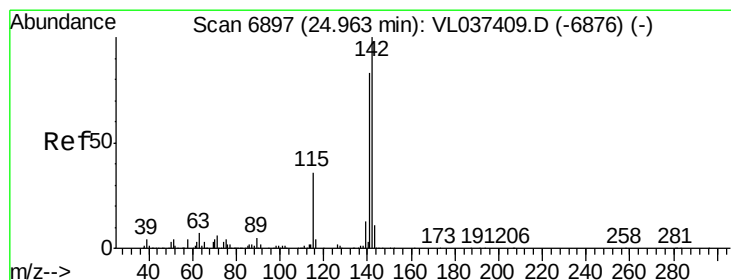
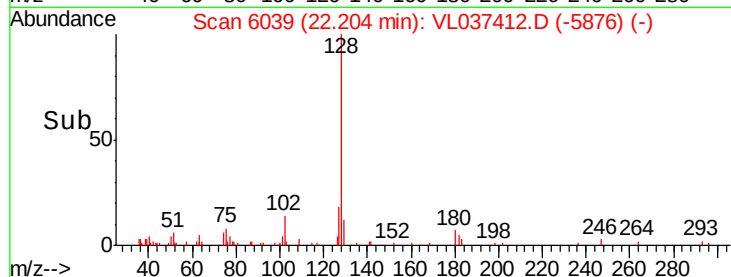
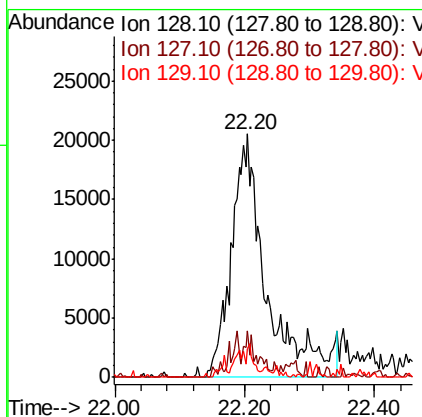
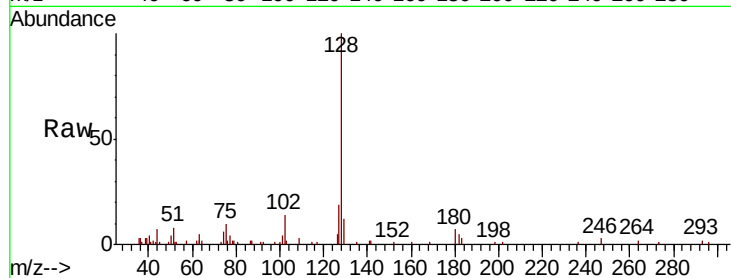
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 76336 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 19.0  | 9.9   | 14.9# |
| 129       | 11.6  | 9.4   | 14.0  |

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#80

Naphthalene, 2-methyl-

Concen: 0.226 ppbv m

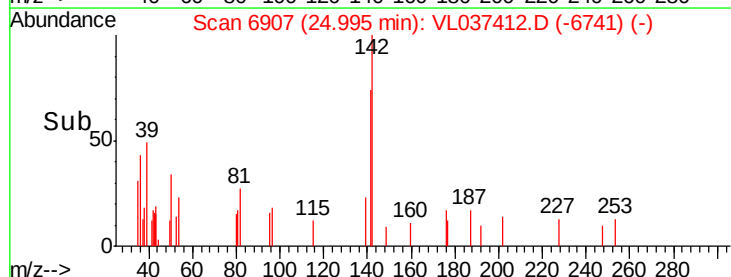
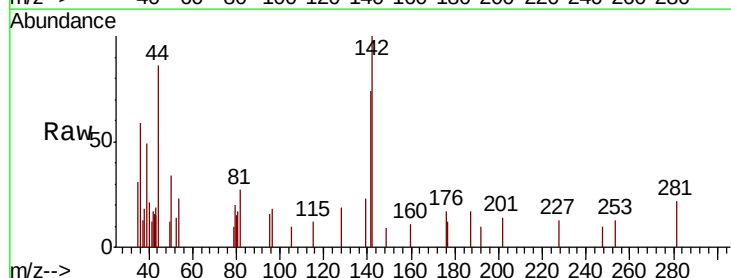
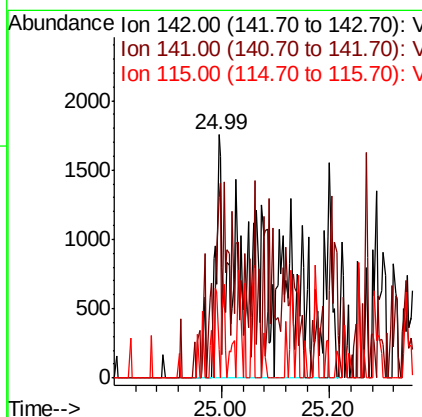
RT: 24.99 min Scan# 6907

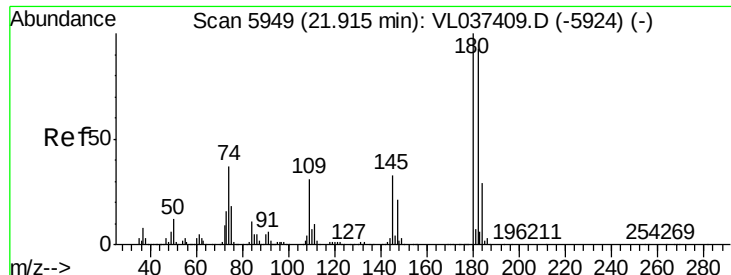
Delta R.T. 0.03 min

Lab File: VL037412.D

Acq: 12 Aug 2021 12:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 9795   |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 1.2   | 68.7  | 103.1# |
| 115       | 0.6   | 32.7  | 49.1#  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.429 ppbv m  
 RT: 21.92 min Scan# 5950  
 Delta R.T. 0.00 min  
 Lab File: VL037412.D  
 Acq: 12 Aug 2021 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 0.0   | 78.6  | 118.0# |
| 184     | 0.0   | 24.6  | 36.8#  |

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