

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080320\  
 Data File : VL035316.D  
 Acq On : 3 Aug 2020 13:00  
 Operator : SY/AP  
 Sample : VSTDIC002  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Manual Integrations  
 APPROVED

apatel  
 8/6/2020 2:44:15 PM

Quant Time: Aug 03 15:12:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 03 2020  
 QLast Update : Mon Aug 03 15:02:12 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1435187  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3544236  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 3353325  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 2741830  | 10.23    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.30% |

## Target Compounds

|                                | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.00 | 85   | 331716   | 1.935 | ppbv   | 89     |
| 3) Chlorodifluoromethane       | 2.94 | 51   | 358601   | 2.257 | ppbv   | 97     |
| 4) Chloromethane               | 3.09 | 50   | 200862   | 2.247 | ppbv   | 89     |
| 5) Vinyl Chloride              | 3.21 | 62   | 199010   | 2.137 | ppbv   | 91     |
| 6) Bromomethane                | 3.43 | 94   | 130961   | 2.277 | ppbv   | 93     |
| 7) Chloroethane                | 3.51 | 64   | 75945    | 2.259 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane   | 3.14 | 85   | 473383   | 2.177 | ppbv   | 97     |
| 9) Propene                     | 2.96 | 41   | 138824   | 2.507 | ppbv   | 95     |
| 10) Heptane                    | 8.12 | 43   | 337004   | 2.248 | ppbv   | 97     |
| 11) Trichlorofluoromethane     | 3.91 | 101  | 521355   | 2.261 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.46 | 101  | 367553   | 2.248 | ppbv   | 99     |
| 13) Ethanol                    | 3.56 | 45   | 52578m   | 2.333 | ppbv   |        |
| 14) Bromoethene                | 3.70 | 108  | 152317   | 2.283 | ppbv   | 94     |
| 15) Acetone                    | 3.81 | 43   | 472862   | 2.470 | ppbv   | 95     |
| 16) 1,3-Butadiene              | 3.28 | 39   | 175046   | 2.344 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.26 | 59   | 392106   | 2.122 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.25 | 96   | 166487   | 2.293 | ppbv   | 94     |
| 19) Isopropyl Alcohol          | 3.93 | 45   | 273442   | 2.166 | ppbv # | 96     |
| 20) Methylene Chloride         | 4.31 | 84   | 234374   | 2.690 | ppbv   | 97     |
| 21) Allyl Chloride             | 4.38 | 41   | 259483   | 2.380 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96   | 164590   | 2.359 | ppbv   | 98     |
| 23) Vinyl Acetate              | 5.05 | 43   | 479343   | 2.492 | ppbv # | 97     |
| 24) 1,1-Dichloroethane         | 4.99 | 63   | 422996   | 2.358 | ppbv   | 98     |
| 25) Ethyl Acetate              | 5.66 | 43   | 703914   | 2.355 | ppbv   | 99     |
| 26) Hexane                     | 5.67 | 57   | 331718   | 2.460 | ppbv   | 96     |
| 27) Carbon Disulfide           | 4.52 | 76   | 410319   | 2.252 | ppbv   | 96     |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73   | 488197   | 2.532 | ppbv   | 98     |
| 29) Chloroform                 | 5.74 | 83   | 520341   | 2.300 | ppbv   | 89     |
| 30) Cyclohexane                | 7.12 | 84   | 232325   | 2.410 | ppbv   | 95     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61   | 290567   | 2.472 | ppbv   | 94     |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97   | 492702   | 2.128 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.22 | 43   | 439165   | 2.435 | ppbv   | 96     |
| 35) Carbon Tetrachloride       | 7.01 | 117  | 495506   | 2.088 | ppbv   | 96     |
| 36) Benzene                    | 6.88 | 78   | 584110   | 2.371 | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 381059   | 2.213 | ppbv   | 99     |
| 38) Trichloroethene            | 7.83 | 130  | 237587   | 2.327 | ppbv   | 92     |
| 39) 1,2-Dichloropropane        | 7.62 | 63   | 231917m  | 2.360 | ppbv   |        |
| 40) 1,4-Dioxane                | 7.85 | 88   | 90209m   | 2.331 | ppbv   |        |
| 41) Tetrahydrofuran            | 6.04 | 42   | 207118   | 2.343 | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.79 | 83   | 523340   | 2.277 | ppbv   | 98     |
| 43) Methyl Methacrylate        | 8.01 | 69   | 239444   | 2.244 | ppbv   | 97     |

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 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Manual Integrations  
 APPROVED

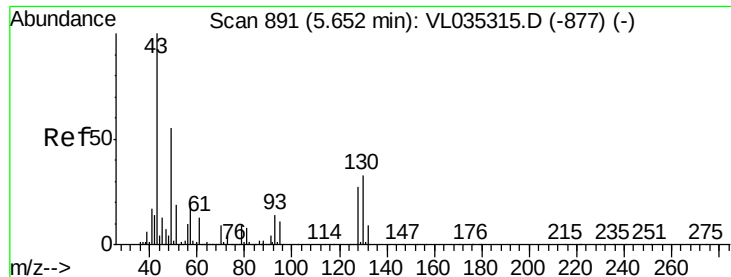
apatel  
 8/6/2020 2:44:15 PM

Quant Time: Aug 03 15:12:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 03 2020  
 QLast Update : Mon Aug 03 15:02:12 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 1023471m | 2.358 | ppbv   |          |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 244492   | 2.274 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 297603   | 2.272 | ppbv   | 90       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 253739   | 2.186 | ppbv   | 93       |
| 48) Dibromochloromethane      | 10.32 | 129  | 421084   | 2.303 | ppbv   | 99       |
| 49) Bromoform                 | 13.07 | 173  | 361587   | 2.200 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 601848   | 2.303 | ppbv   | 96       |
| 51) 2-Hexanone                | 10.15 | 43   | 463516   | 2.339 | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.24 | 164  | 216933   | 2.308 | ppbv   | 95       |
| 53) Toluene                   | 9.82  | 91   | 624647   | 2.386 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 382369   | 2.278 | ppbv   | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 12.14 | 131  | 336099   | 2.180 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.17 | 112  | 557140   | 2.208 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.73 | 91   | 876583m  | 2.468 | ppbv   |          |
| 59) m/p-Xylene                | 13.02 | 91   | 1571602m | 4.753 | ppbv   |          |
| 60) o-Xylene                  | 13.72 | 91   | 784717   | 2.379 | ppbv   | 96       |
| 61) Styrene                   | 13.55 | 104  | 479858   | 2.396 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.70 | 105  | 1178654  | 2.401 | ppbv   | 96       |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 595836m  | 2.099 | ppbv   |          |
| 64) n-propylbenzene           | 15.59 | 120  | 299097   | 2.291 | ppbv   | 81       |
| 65) tert-Butylbenzene         | 16.77 | 119  | 1069296  | 2.404 | ppbv   | 97       |
| 66) Benzyl Chloride           | 17.02 | 91   | 364506   | 2.092 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.33 | 105  | 1528387  | 2.352 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 17.68 | 119  | 1257809  | 2.372 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.59 | 91   | 1355953  | 2.364 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.48 | 91   | 896123   | 2.420 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 898406   | 2.420 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 874453   | 2.415 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.80 | 105  | 987297   | 2.342 | ppbv # | 86       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 583463   | 2.144 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.17 | 146  | 550551   | 2.236 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.86 | 146  | 540541   | 2.217 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.42 | 225  | 440302   | 2.207 | ppbv   | 98       |
| 79) Naphthalene               | 22.26 | 128  | 793941   | 2.369 | ppbv   | 97       |
| 80) Naphthalene, 2-methyl-    | 25.01 | 142  | 216653   | 1.997 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.98 | 180  | 472828m  | 2.317 | ppbv   |          |
| -----                         |       |      |          |       |        |          |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1435187

Ion Ratio Lower Upper

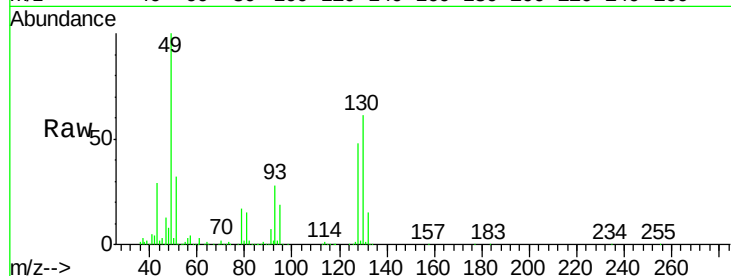
49 100

128 49.7 23.8 71.5

130 63.6 31.4 94.3

Manual Integrations  
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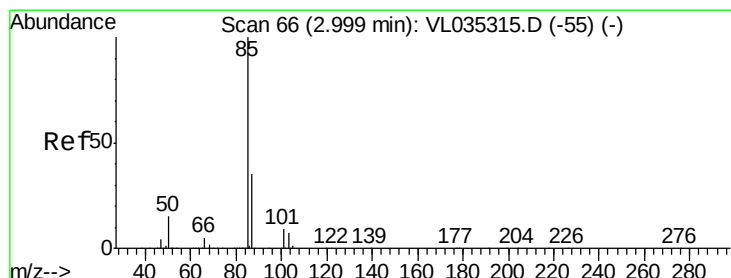
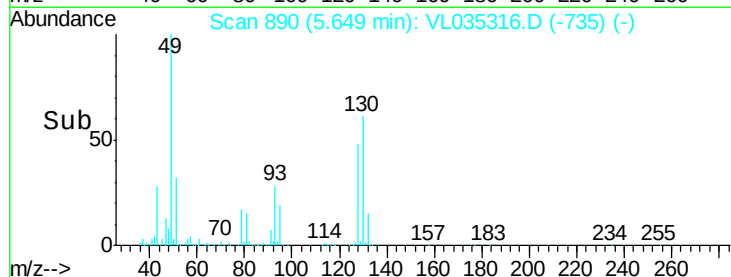
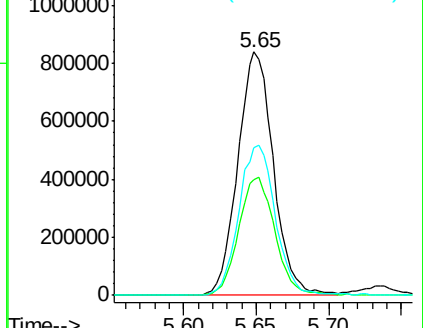
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.935 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL035316.D

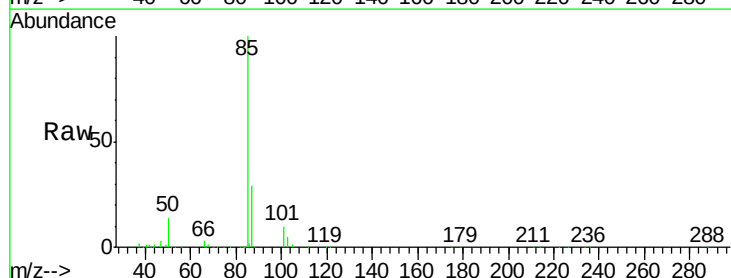
Acq: 3 Aug 2020 13:00

Tgt Ion: 85 Resp: 331716

Ion Ratio Lower Upper

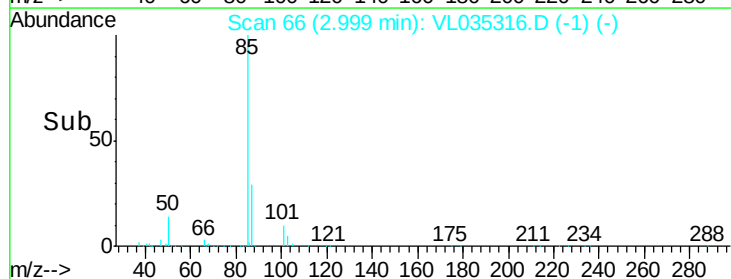
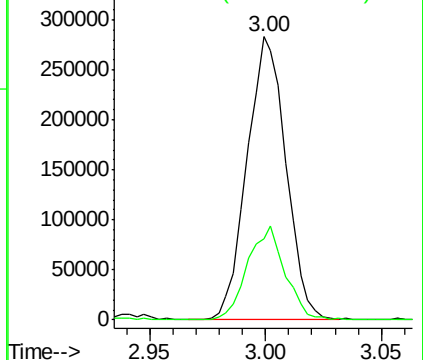
85 100

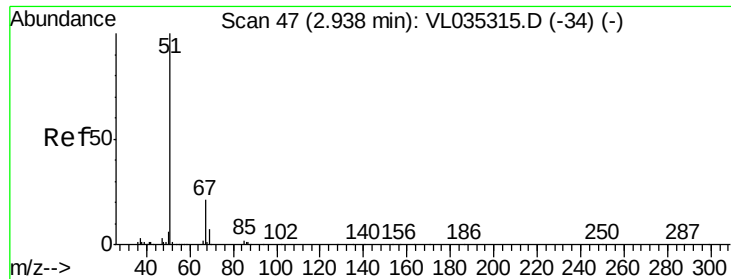
87 28.6 27.8 41.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





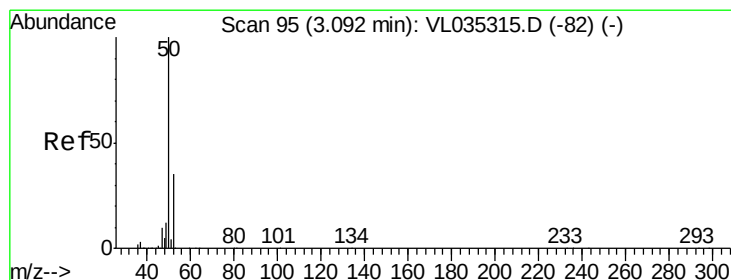
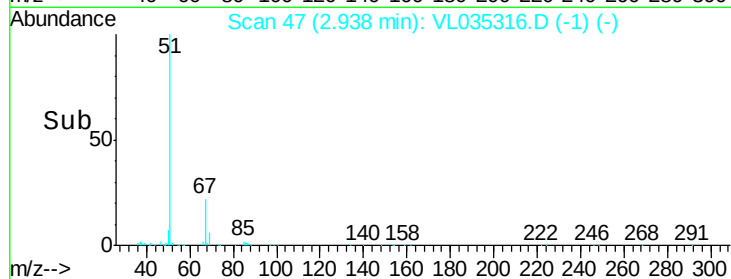
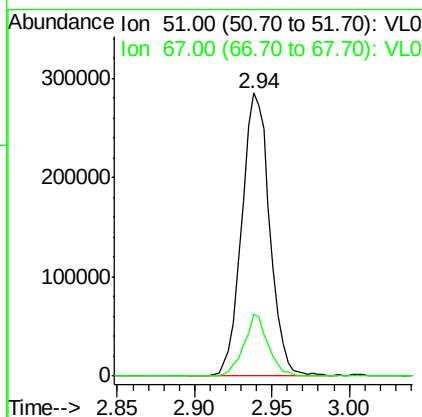
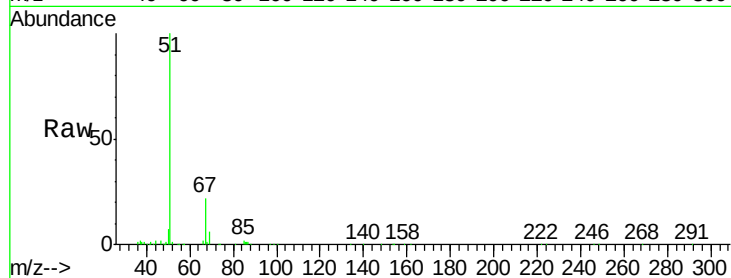
#3  
Chlorodifluoromethane  
Concen: 2.257 ppbv  
RT: 2.94 min Scan# 47  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 51      | 100   |       |       |
| 67      | 18.9  | 16.2  | 24.2  |

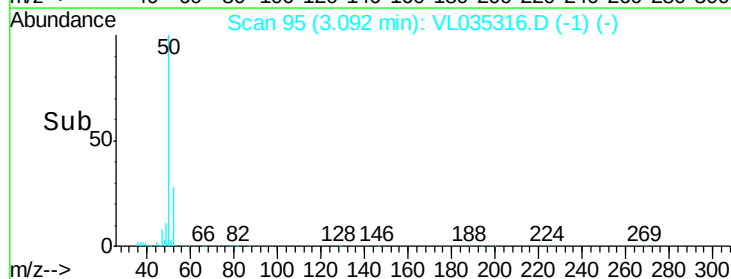
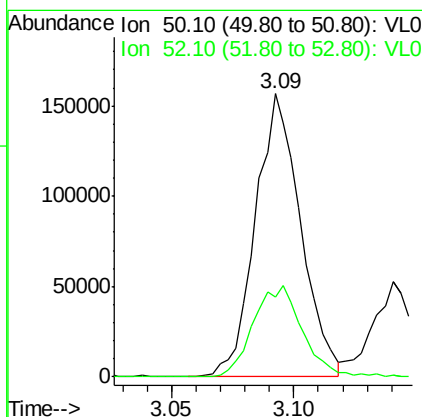
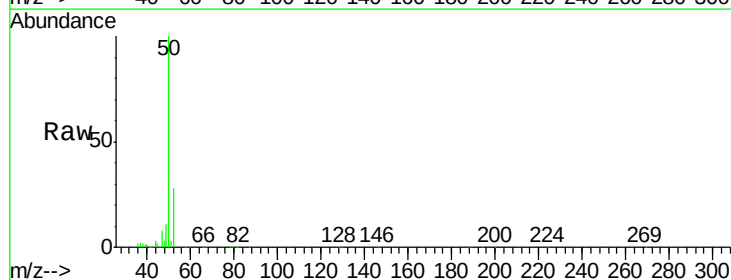
Manual Integrations  
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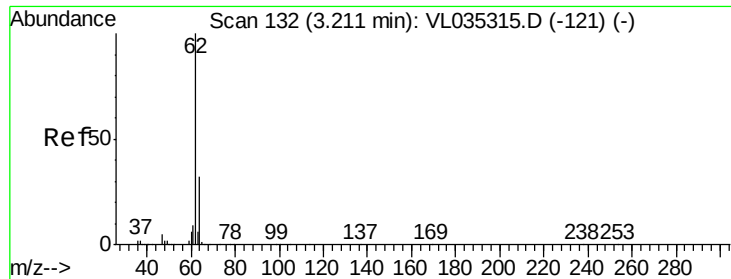
apatel  
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#4  
Chloromethane  
Concen: 2.247 ppbv  
RT: 3.09 min Scan# 95  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 50      | 100   |       |       |
| 52      | 28.3  | 27.8  | 41.8  |





#5

Vinyl Chloride

Concen: 2.137 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 199010

Ion Ratio Lower Upper

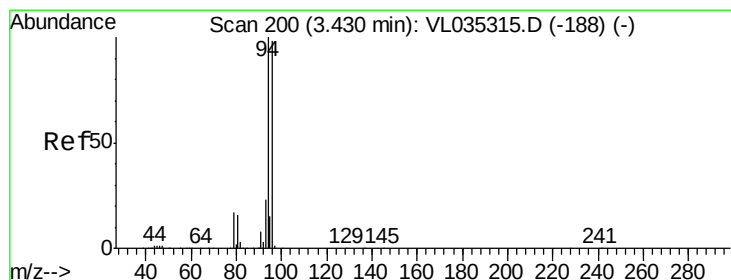
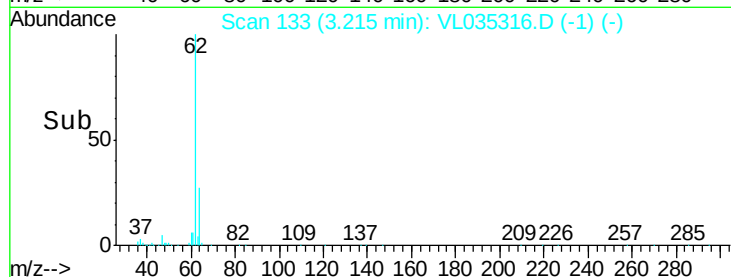
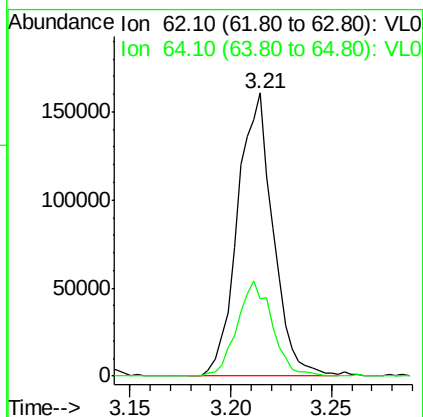
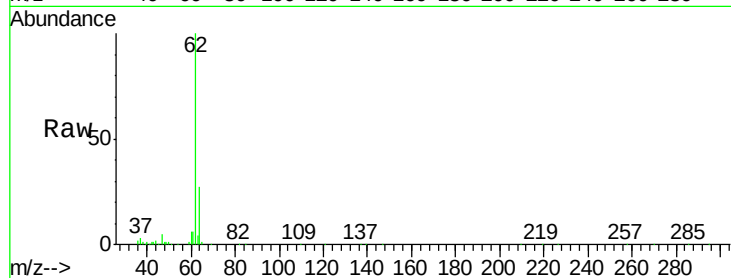
62 100

64 27.3 25.9 38.9

Manual Integrations  
APPROVED

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#6

Bromomethane

Concen: 2.277 ppbv

RT: 3.43 min Scan# 201

Delta R.T. 0.00 min

Lab File: VL035316.D

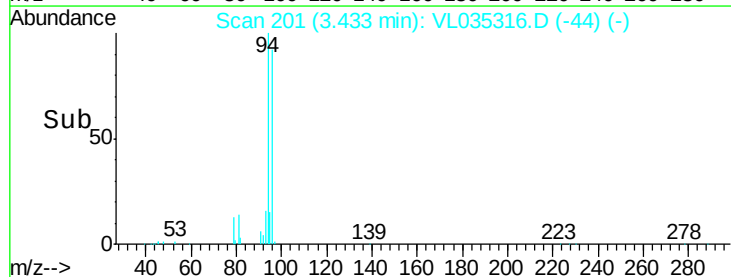
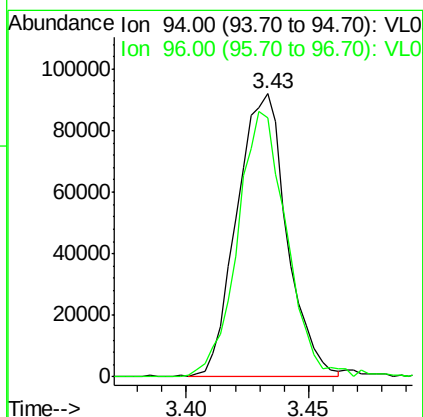
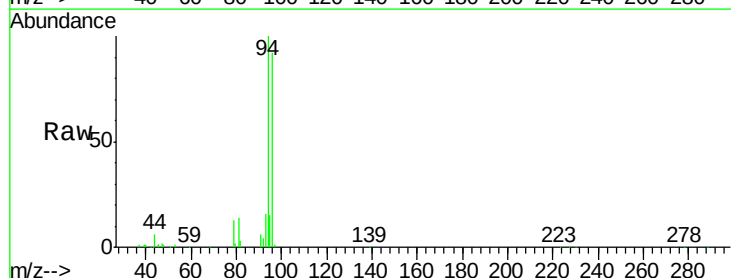
Acq: 3 Aug 2020 13:00

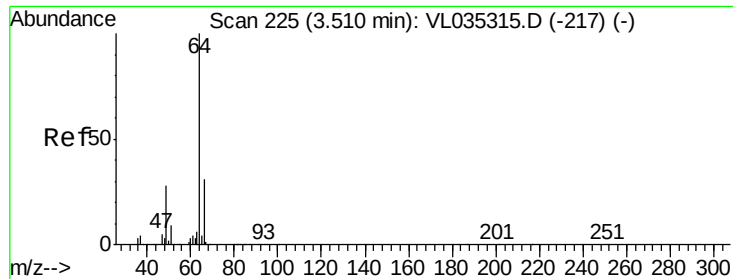
Tgt Ion: 94 Resp: 130961

Ion Ratio Lower Upper

94 100

96 91.0 78.6 117.8





#7

Chloroethane

Concen: 2.259 ppbv

RT: 3.51 min Scan# 226

Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 75945

Ion Ratio Lower Upper

64 100

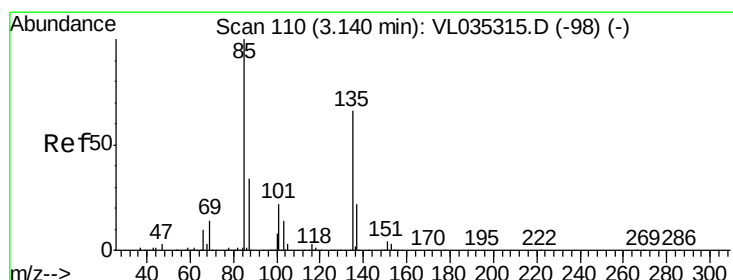
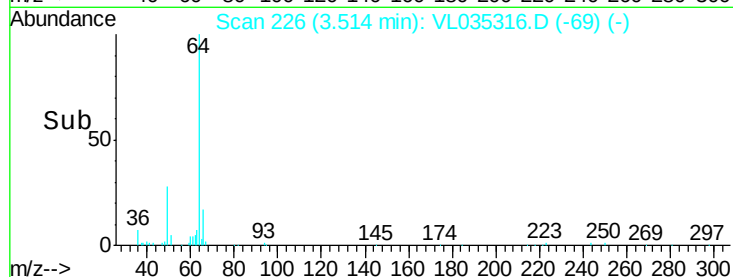
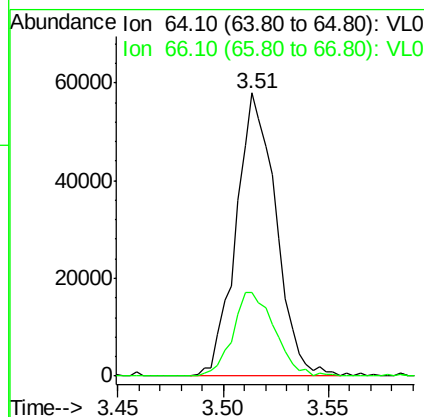
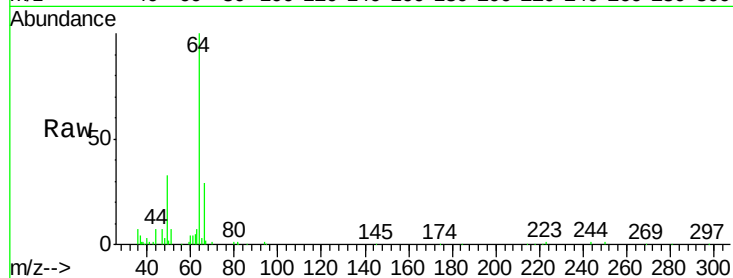
66 29.4 24.9 37.3

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 2.177 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL035316.D

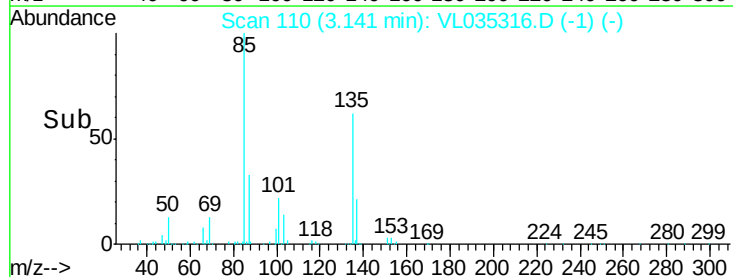
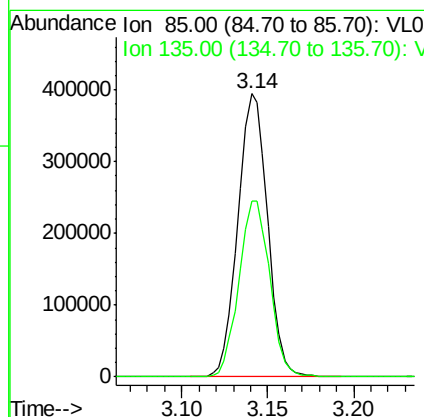
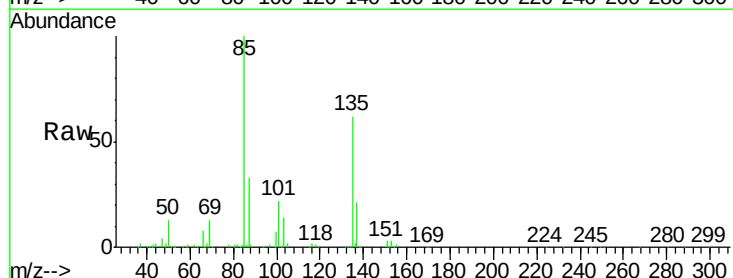
Acq: 3 Aug 2020 13:00

Tgt Ion: 85 Resp: 473383

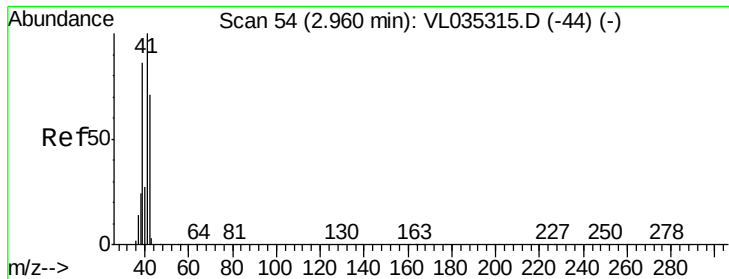
Ion Ratio Lower Upper

85 100

135 64.5 53.4 80.0







#9

Propene

Concen: 2.507 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 138824

Ion Ratio Lower Upper

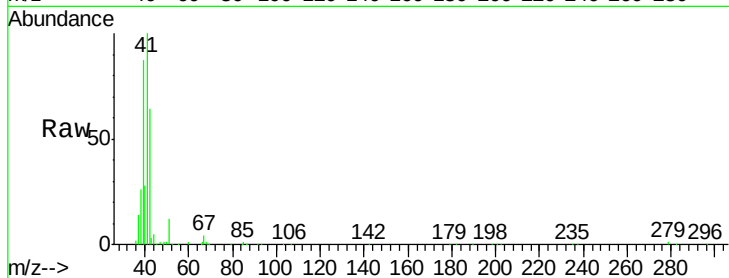
41 100

42 67.0 56.8 85.2

Manual Integrations  
APPROVED

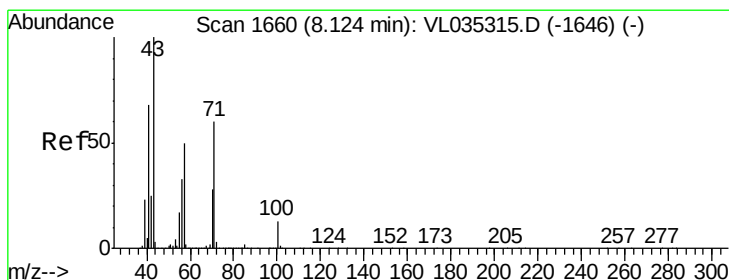
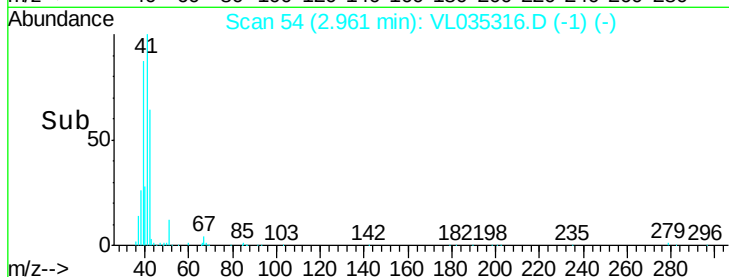
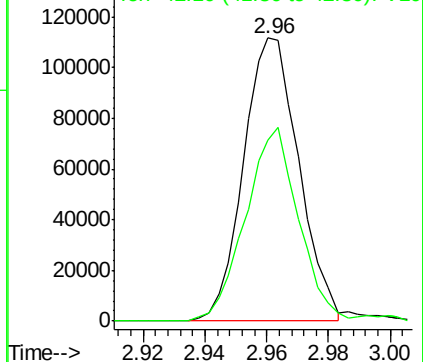
apatel

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 2.248 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VL035316.D

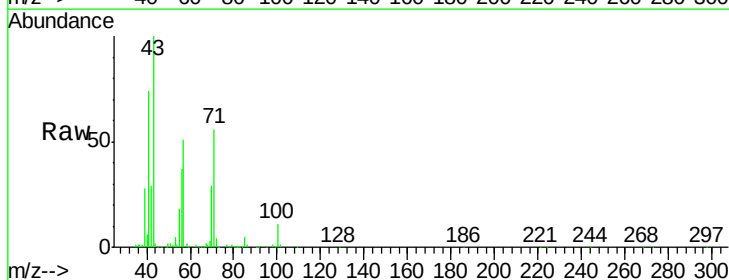
Acq: 3 Aug 2020 13:00

Tgt Ion: 43 Resp: 337004

Ion Ratio Lower Upper

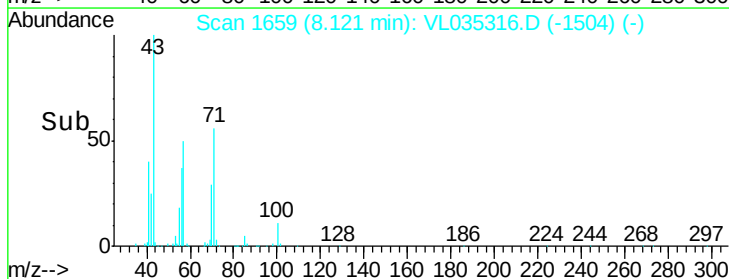
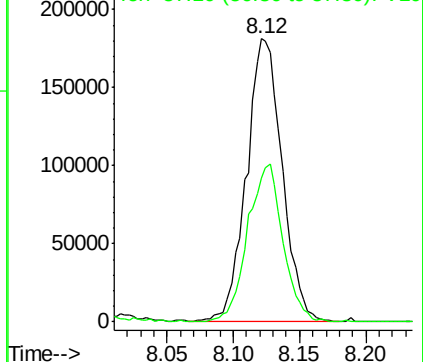
43 100

57 55.4 42.4 63.6

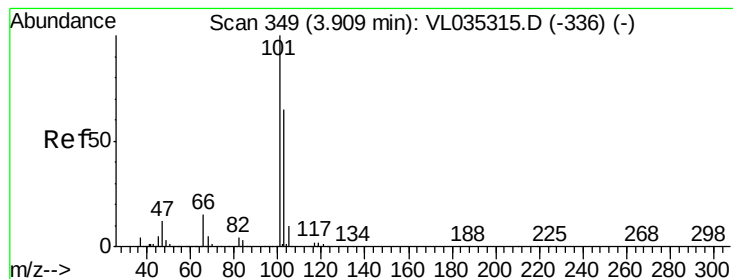


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0







#11

Trichlorofluoromethane

Concen: 2.261 ppbv

RT: 3.91 min Scan# 350

Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 521355

Ion Ratio Lower Upper

101 100

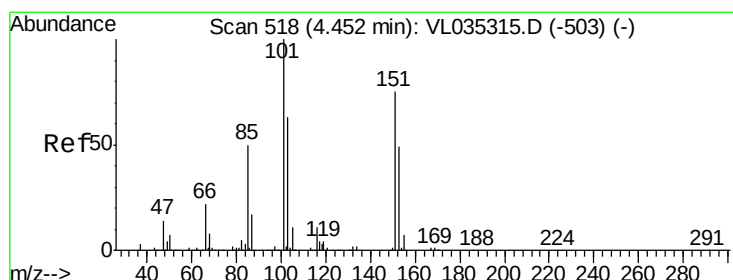
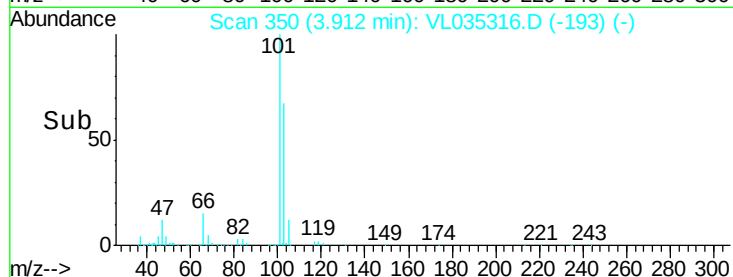
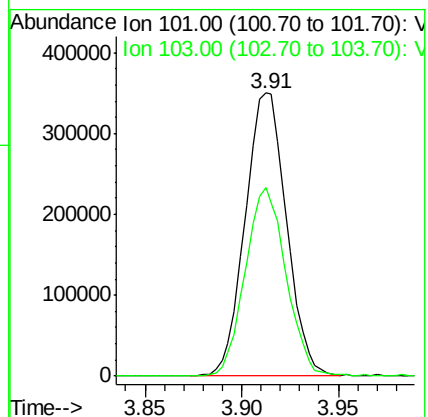
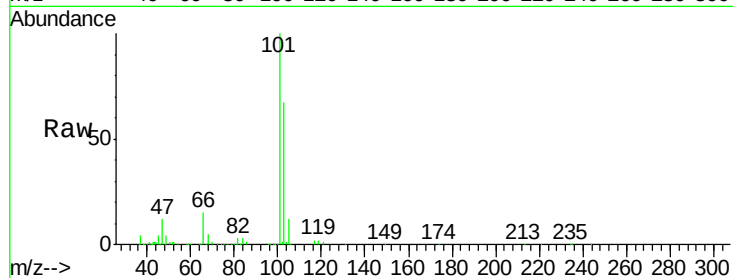
103 66.6 51.8 77.6

Manual Integrations

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apatel

8/6/2020 2:44:15 PM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.248 ppbv

RT: 4.46 min Scan# 519

Delta R.T. 0.00 min

Lab File: VL035316.D

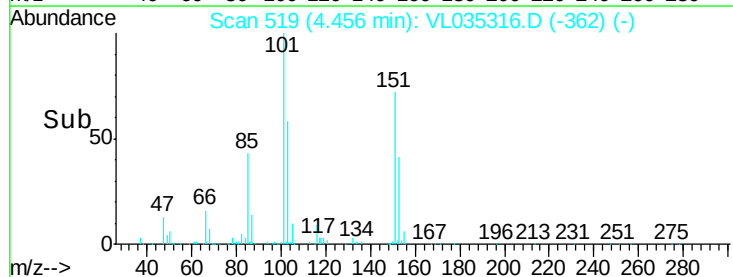
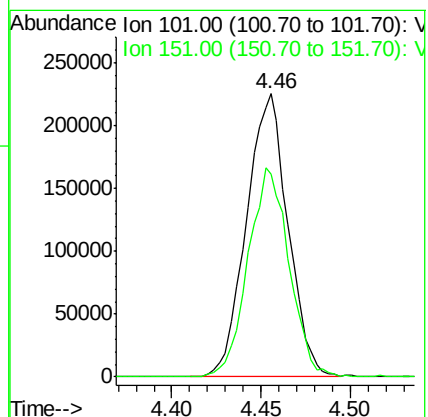
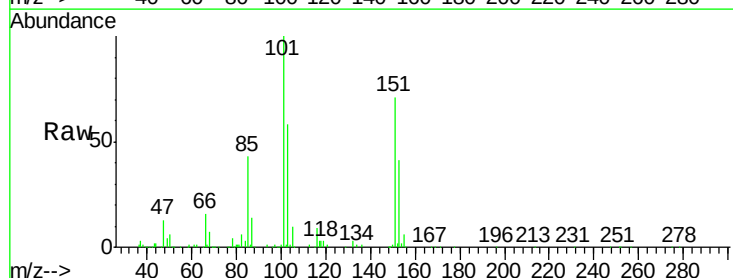
Acq: 3 Aug 2020 13:00

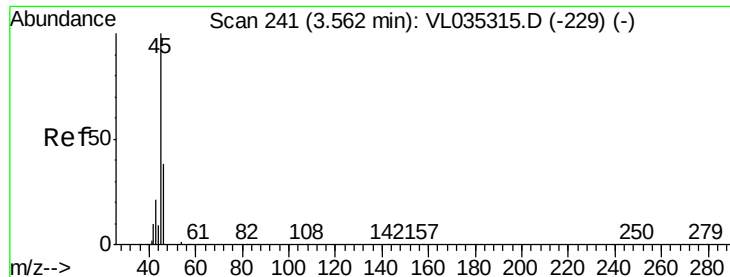
Tgt Ion:101 Resp: 367553

Ion Ratio Lower Upper

101 100

151 72.8 58.9 88.3





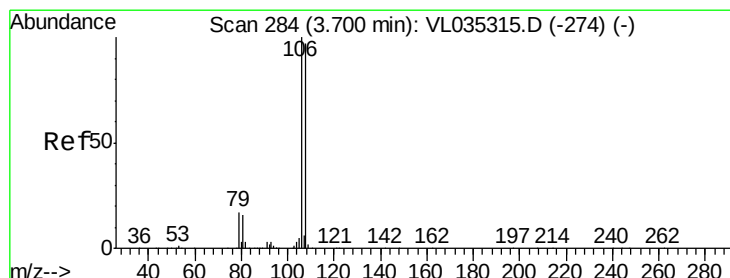
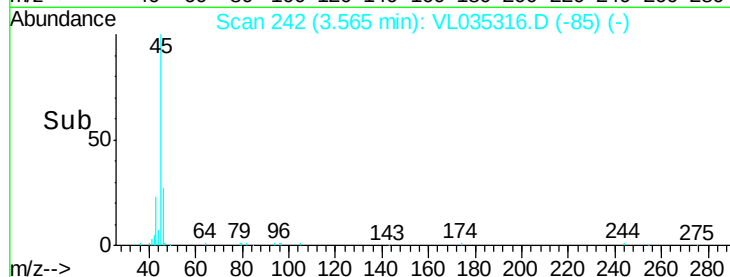
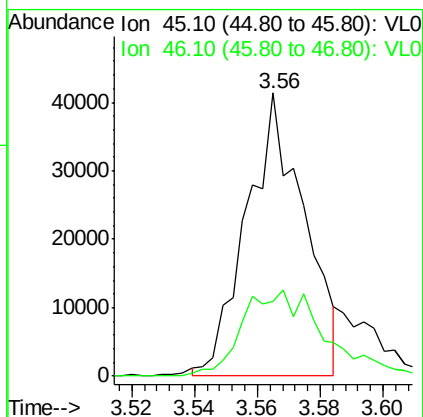
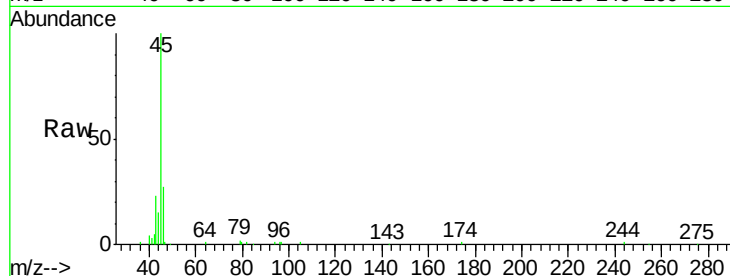
#13  
Ethanol  
Concen: 2.333 ppbv m  
RT: 3.56 min Scan# 242  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 44.4  | 14.5  | 57.9  |

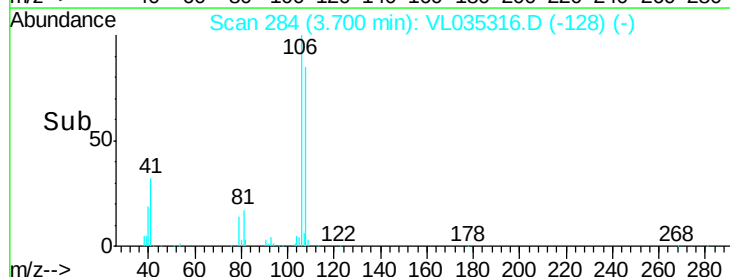
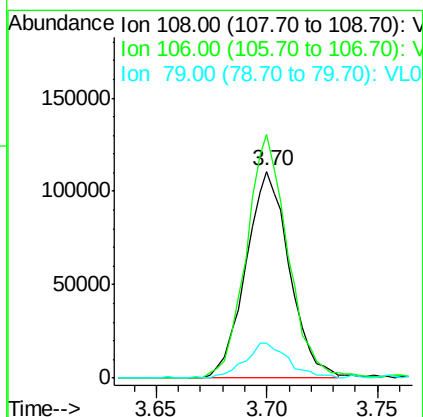
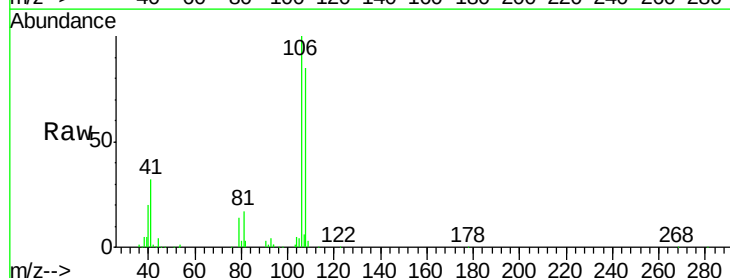
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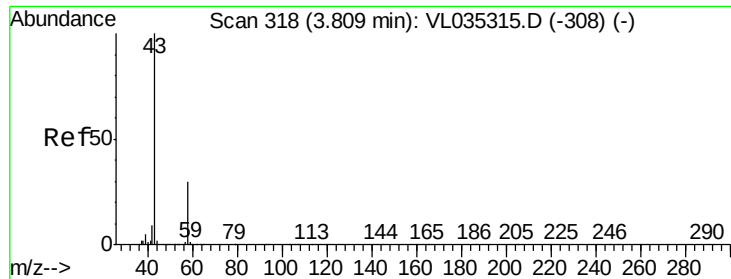
apatel  
8/6/2020 2:44:15 PM



#14  
Bromoethene  
Concen: 2.283 ppbv  
RT: 3.70 min Scan# 284  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 106     | 114.1 | 86.2  | 129.2 |
| 79      | 19.1  | 14.0  | 21.0  |





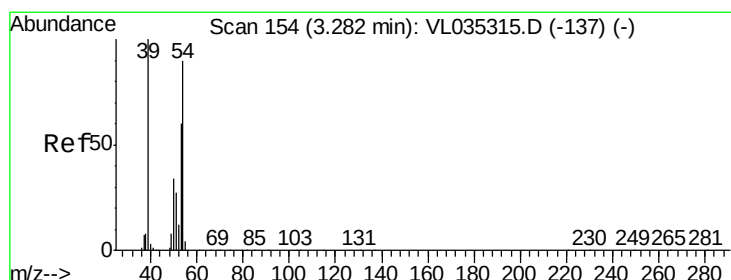
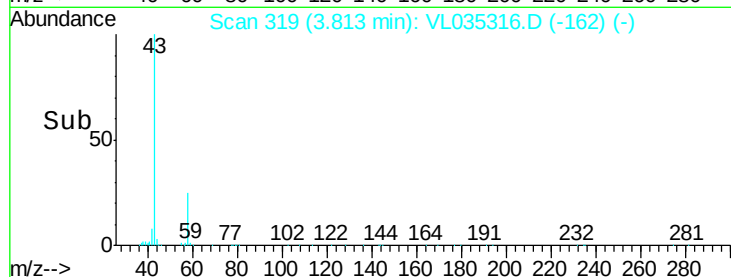
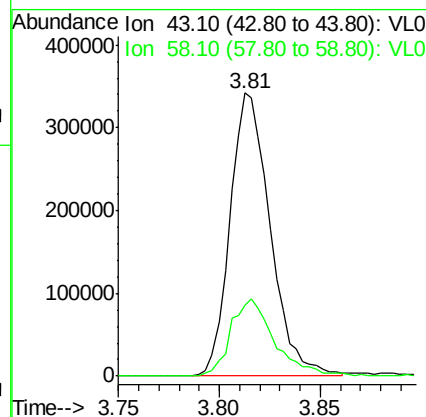
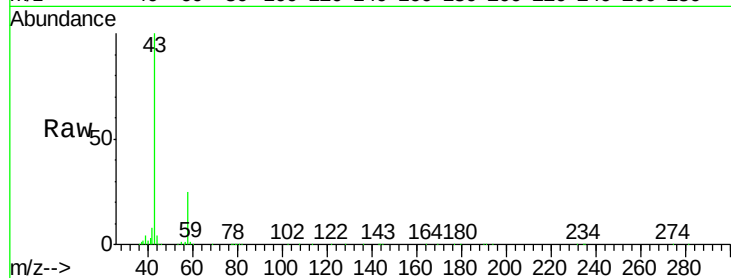
#15  
Acetone  
Concen: 2.470 ppbv  
RT: 3.81 min Scan# 319  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 30.3  | 22.1  | 33.1  |

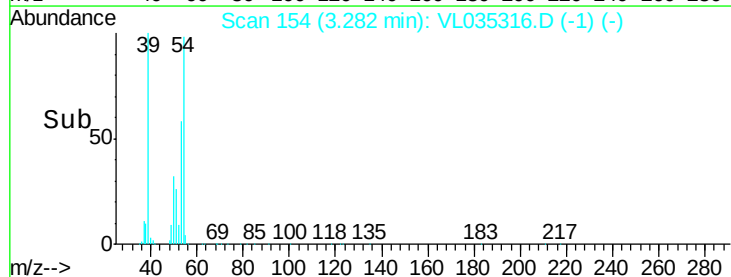
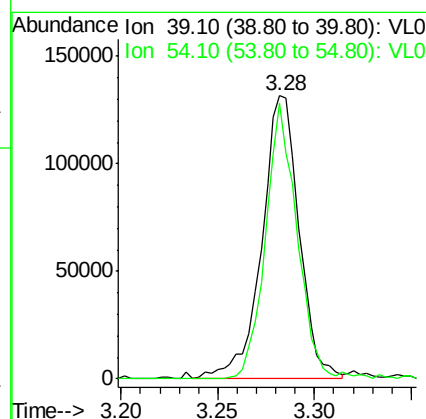
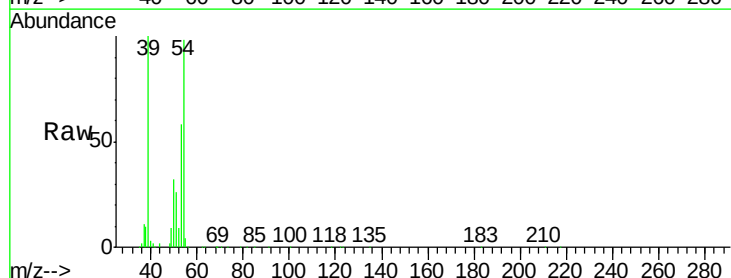
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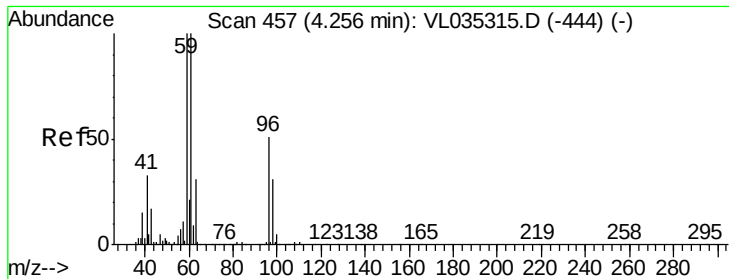
apatel  
8/6/2020 2:44:15 PM



#16  
1,3-Butadiene  
Concen: 2.344 ppbv  
RT: 3.28 min Scan# 154  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 39      | 100   |       |       |
| 54      | 83.3  | 68.0  | 102.0 |





#17

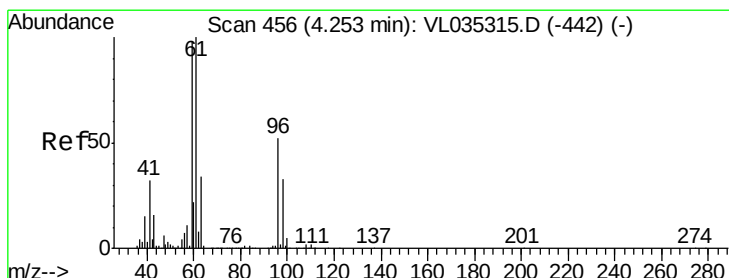
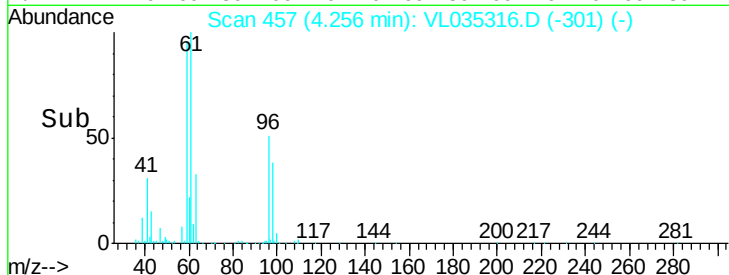
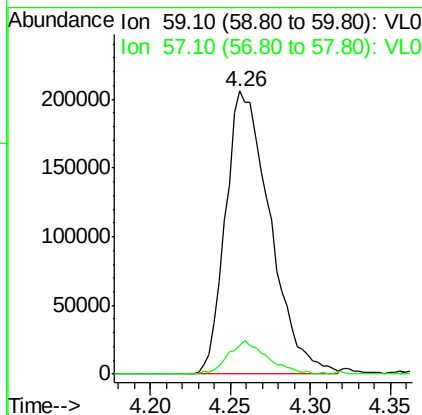
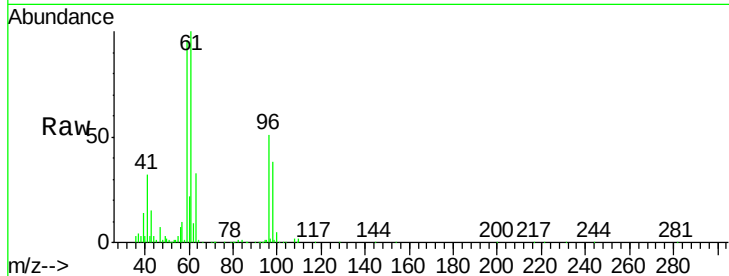
tert-Butyl alcohol  
Concen: 2.122 ppbv  
RT: 4.26 min Scan# 457  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 10.7  | 8.6   | 13.0  |

Manual Integrations  
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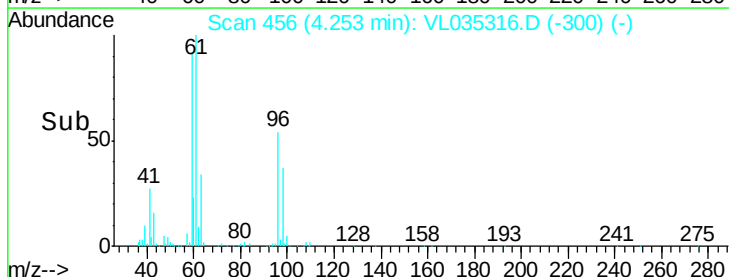
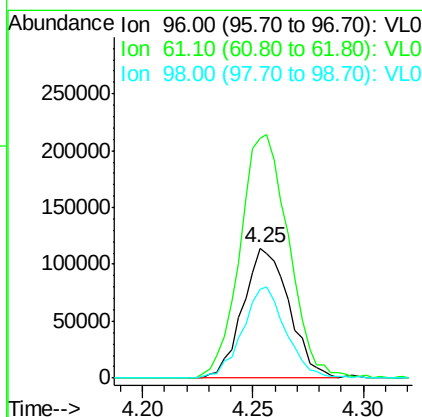
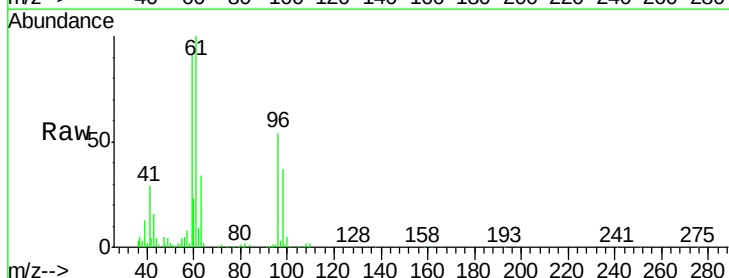
apatel  
8/6/2020 2:44:15 PM

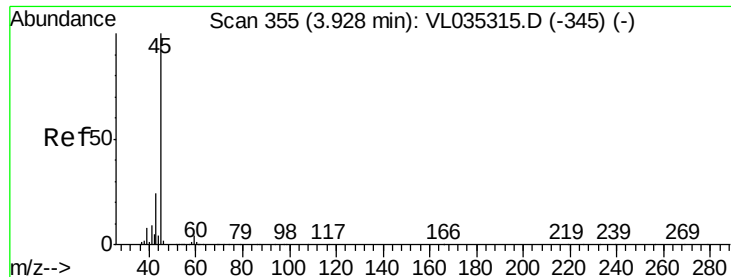


#18

1,1-Dichloroethene  
Concen: 2.293 ppbv  
RT: 4.25 min Scan# 456  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 184.3 | 154.9 | 232.3 |
| 98      | 68.1  | 51.0  | 76.4  |





#19

Isopropyl Alcohol

Concen: 2.166 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 273442

Ion Ratio Lower Upper

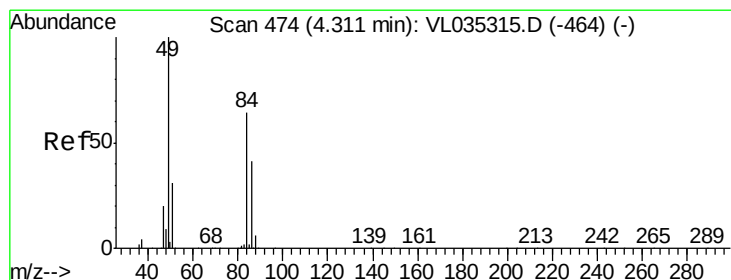
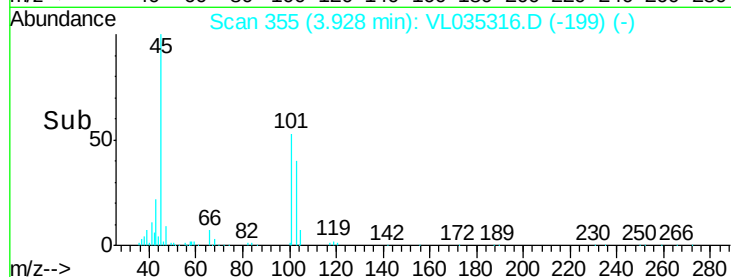
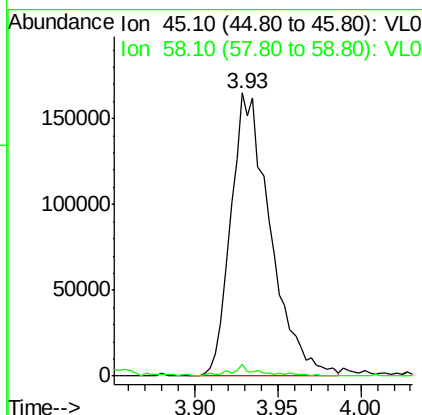
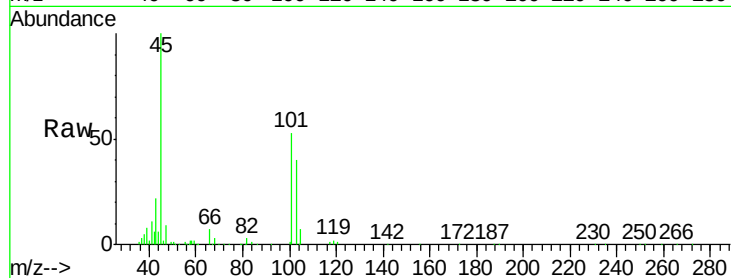
45 100

58 3.3 1.5 2.3#

Manual Integrations  
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#20

Methylene Chloride

Concen: 2.690 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Tgt Ion: 84 Resp: 234374

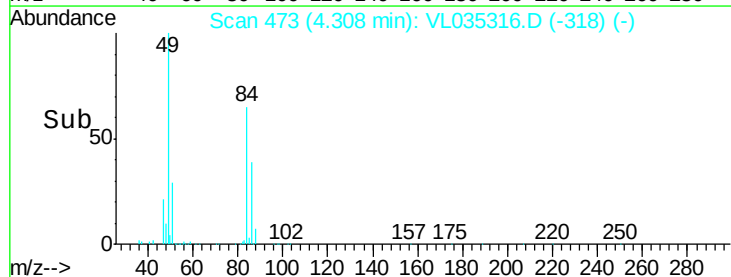
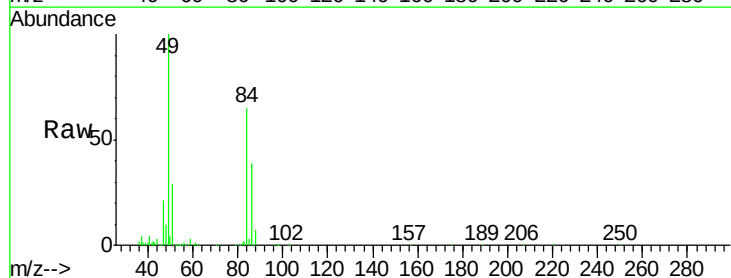
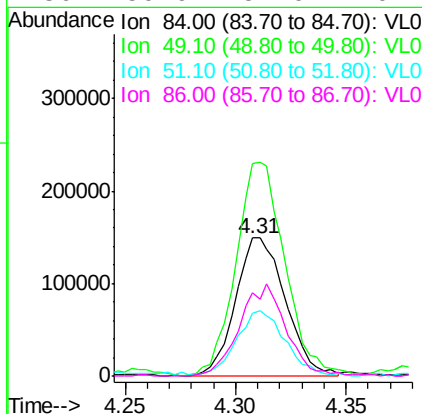
Ion Ratio Lower Upper

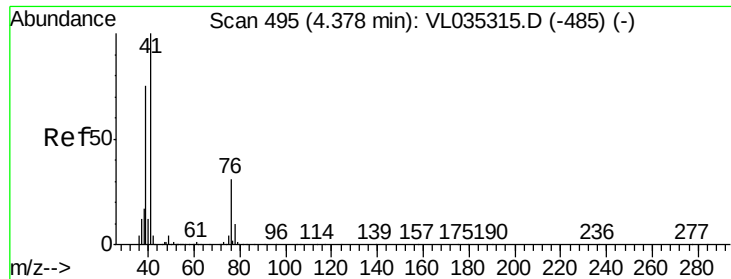
84 100

49 153.2 124.2 186.2

51 44.5 38.6 58.0

86 59.9 51.0 76.4





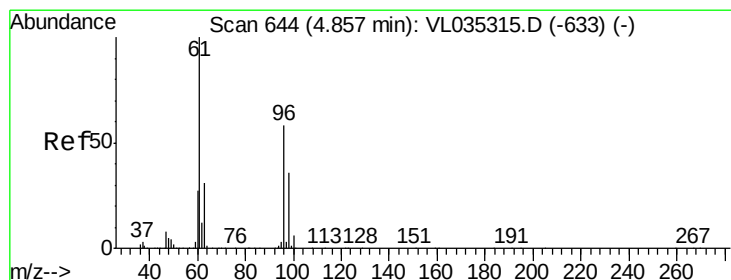
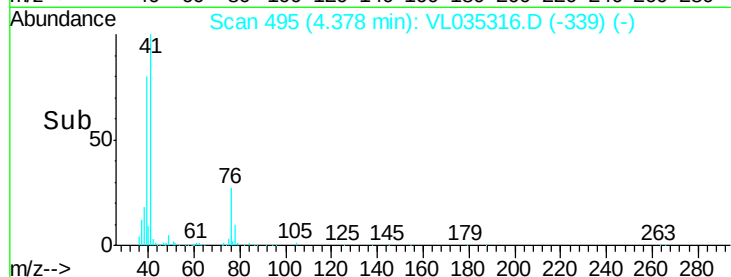
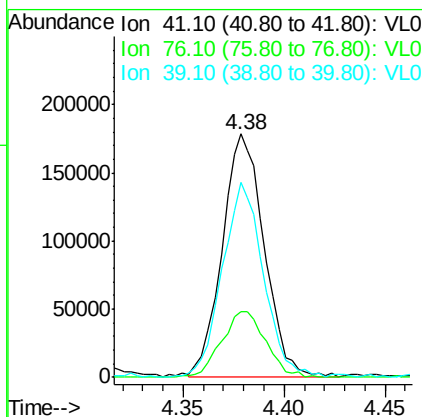
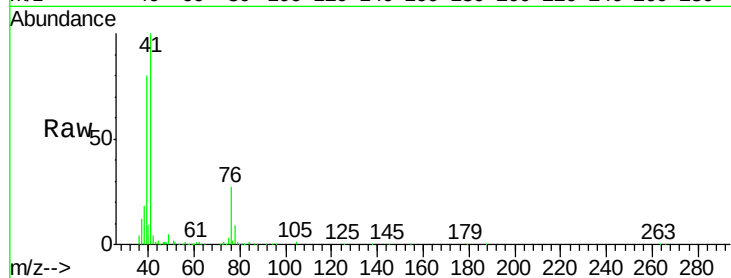
#21  
Allvl Chloride  
Concen: 2.380 ppbv  
RT: 4.38 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 41    | Resp: | 259483 |
| Ion Ratio | Lower | Upper |        |
| 41        | 100   |       |        |
| 76        | 28.7  | 24.4  | 36.6   |
| 39        | 79.7  | 61.8  | 92.6   |

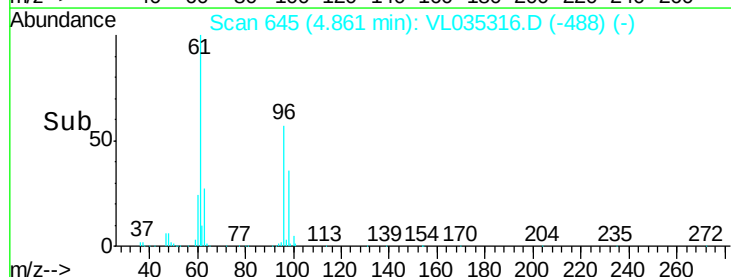
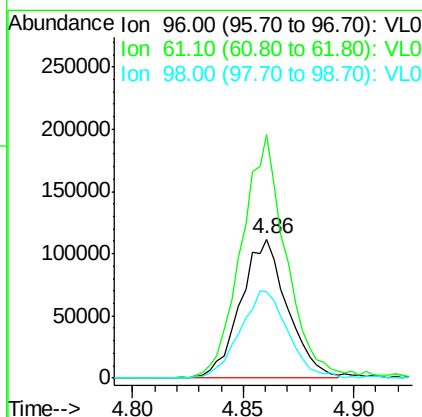
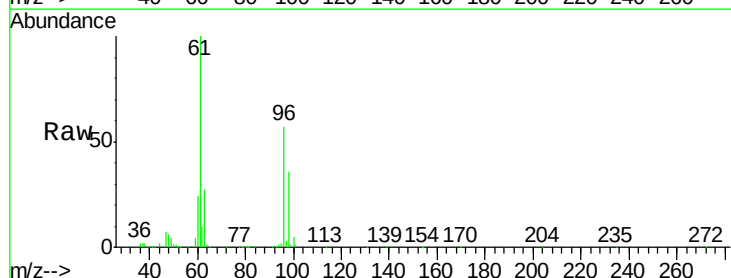
Manual Integrations  
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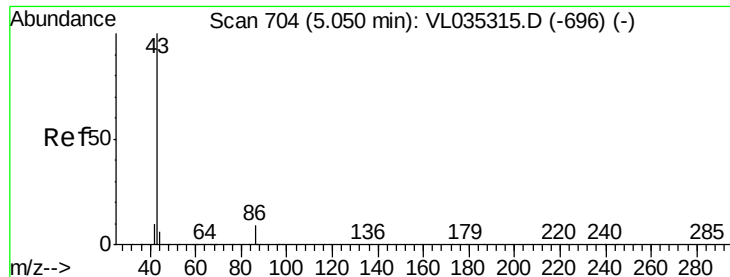
apatel  
8/6/2020 2:44:15 PM



#22  
trans-1,2-Dichloroethene  
Concen: 2.359 ppbv  
RT: 4.86 min Scan# 645  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 164590 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 174.1 | 136.8 | 205.2  |
| 98        | 62.2  | 49.2  | 73.8   |





#23

Vinyl Acetate

Concen: 2.492 ppbv

RT: 5.05 min Scan# 703

Delta R.T. -0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

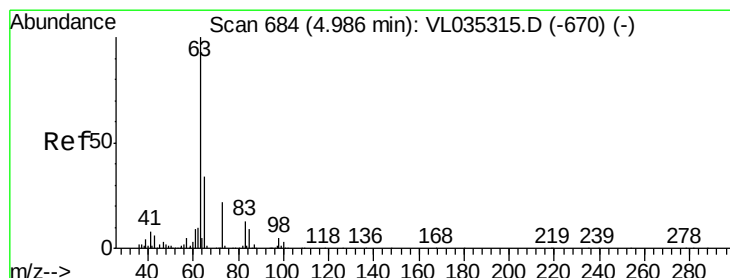
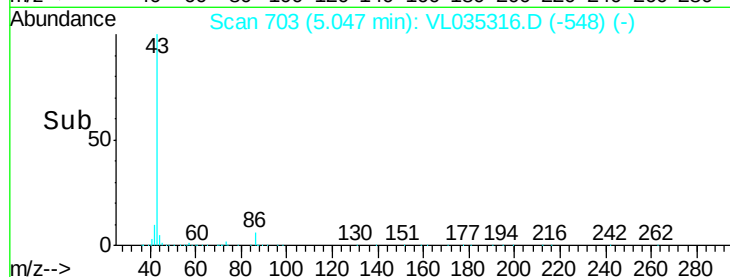
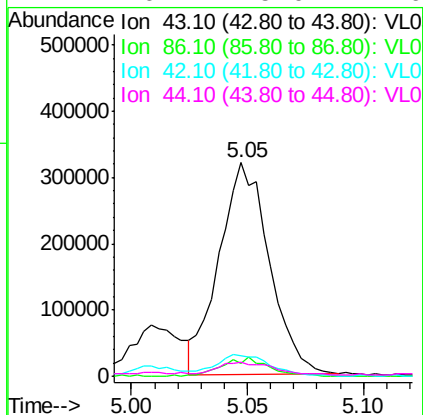
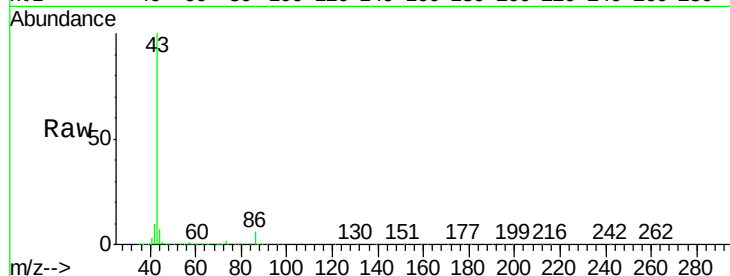
ClientSampleID :

VSTDIC002

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 43      | 100 |       | 479343 |       |       |
| 86      | 5.8 |       | 6.5    | 9.7#  |       |
| 42      | 9.7 |       | 8.2    | 12.4  |       |
| 44      | 6.2 |       | 5.0    | 7.6   |       |

Manual Integrations  
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apatel  
8/6/2020 2:44:15 PM



#24

1,1-Dichloroethane

Concen: 2.358 ppbv

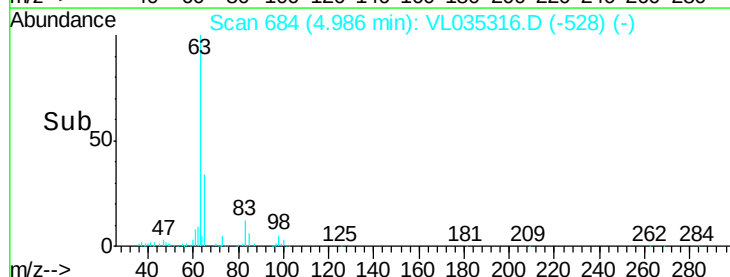
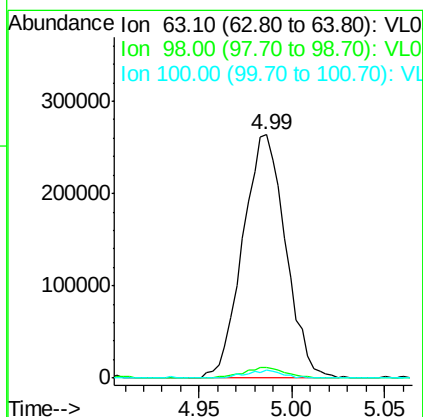
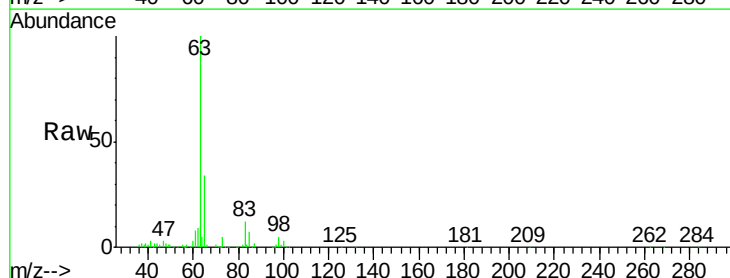
RT: 4.99 min Scan# 684

Delta R.T. 0.00 min

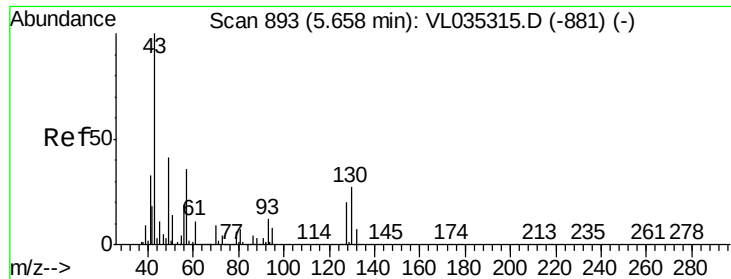
Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 63      | 100 |       | 422996 |       |       |
| 98      | 4.4 |       | 2.5    | 7.5   |       |
| 100     | 3.5 |       | 1.5    | 4.4   |       |







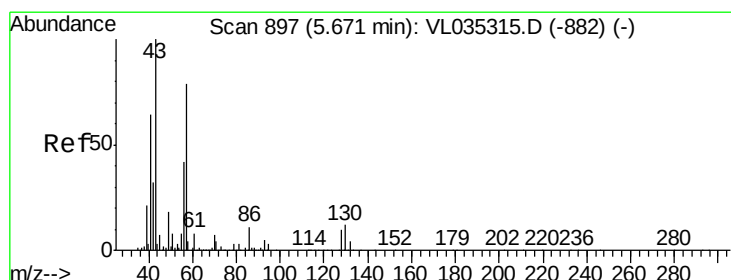
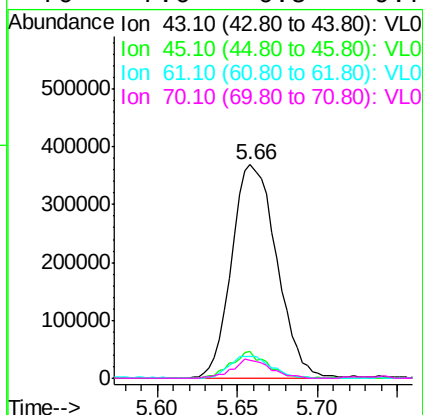
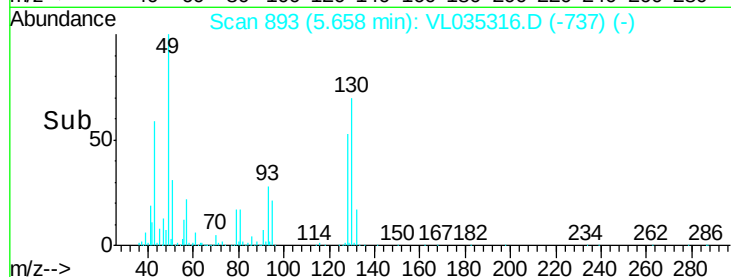
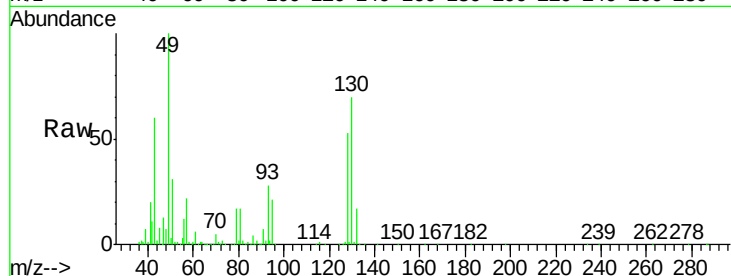
#25  
Ethyl Acetate  
Concen: 2.355 ppbv  
RT: 5.66 min Scan# 893  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 10.5  | 8.6   | 12.8  |
| 61      | 9.4   | 8.1   | 12.1  |
| 70      | 7.6   | 6.5   | 9.7   |

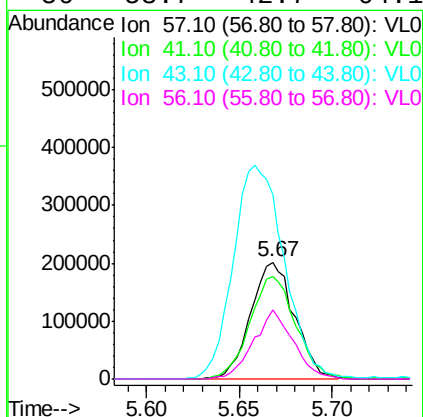
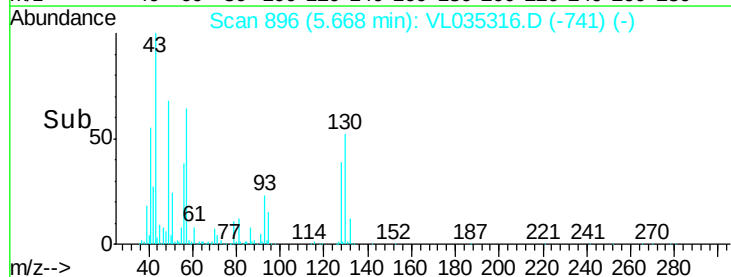
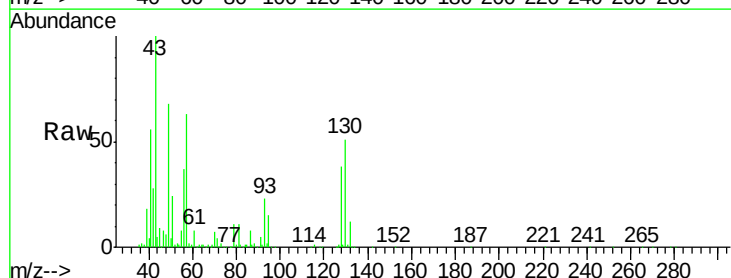
Manual Integrations  
APPROVED

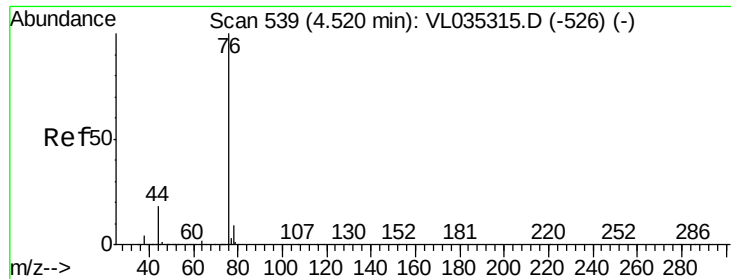
apatel  
8/6/2020 2:44:15 PM



#26  
Hexane  
Concen: 2.460 ppbv  
RT: 5.67 min Scan# 896  
Delta R.T. -0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 92.5  | 72.1  | 108.1 |
| 43      | 214.9 | 179.0 | 268.6 |
| 56      | 53.7  | 42.7  | 64.1  |





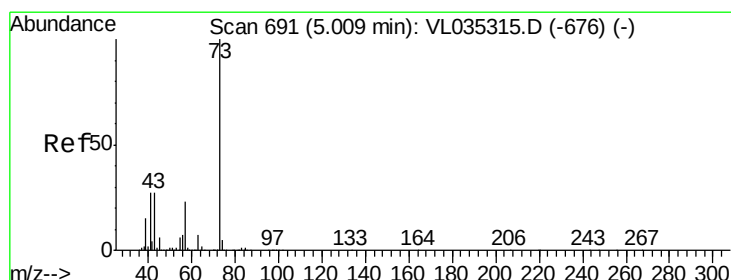
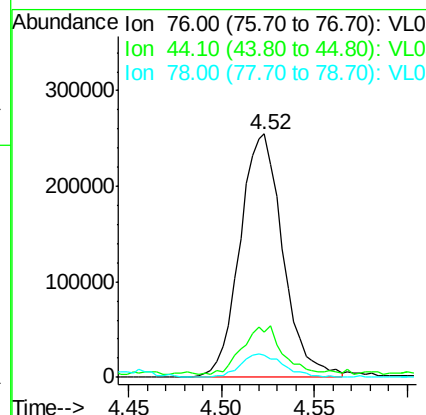
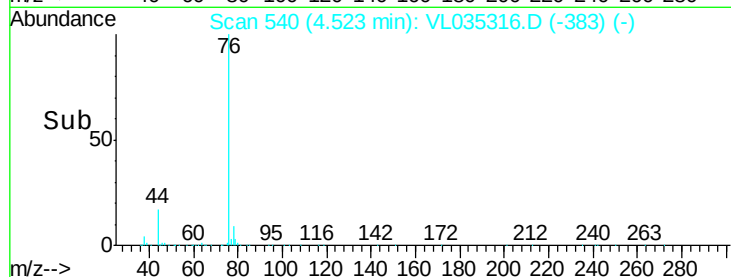
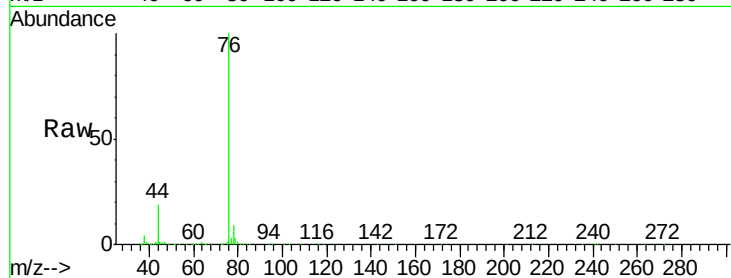
#27  
Carbon Disulfide  
Concen: 2.252 ppbv  
RT: 4.52 min Scan# 540  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 20.9  | 14.8  | 22.2  |
| 78      | 9.8   | 7.8   | 11.8  |

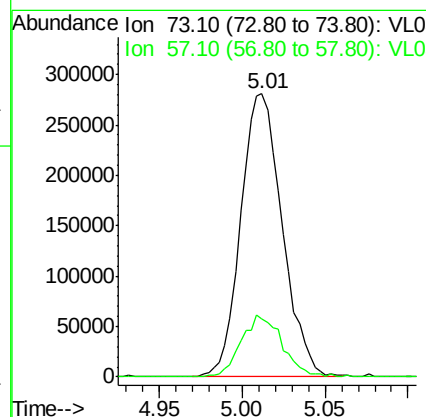
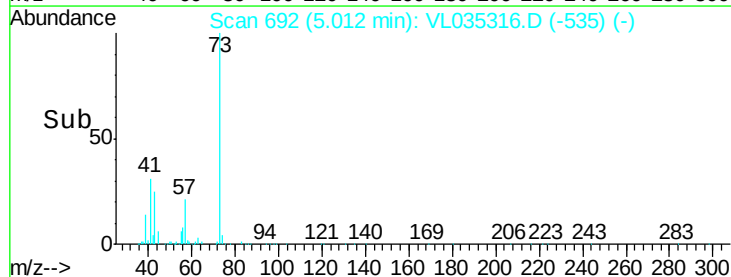
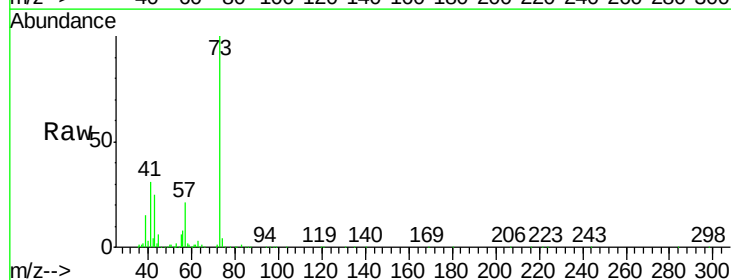
Manual Integrations  
APPROVED

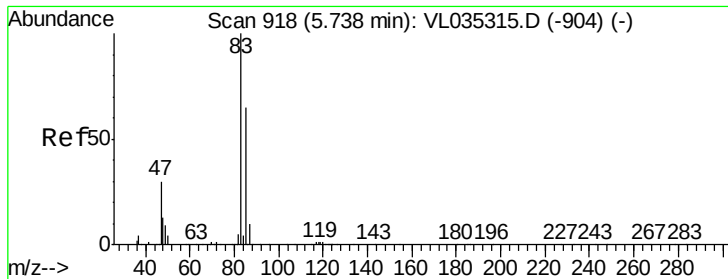
apatel  
8/6/2020 2:44:15 PM



#28  
Methyl tert-Butyl Ether  
Concen: 2.532 ppbv  
RT: 5.01 min Scan# 692  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 21.7  | 18.2  | 27.2  |





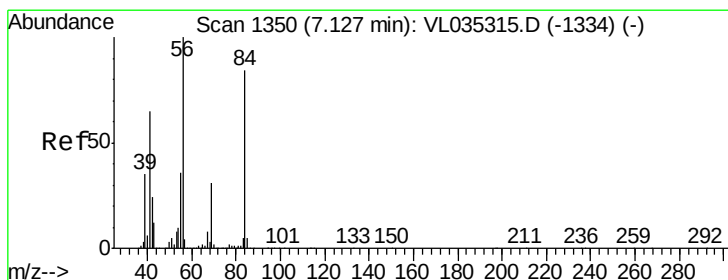
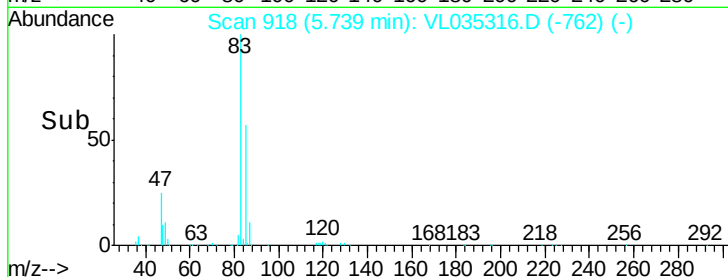
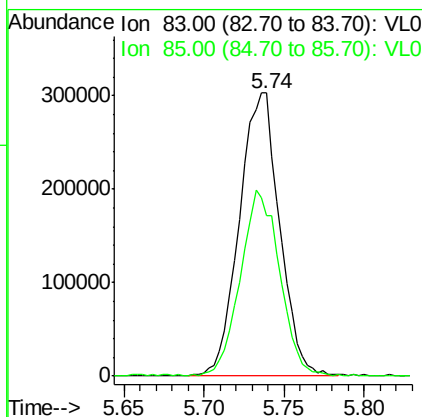
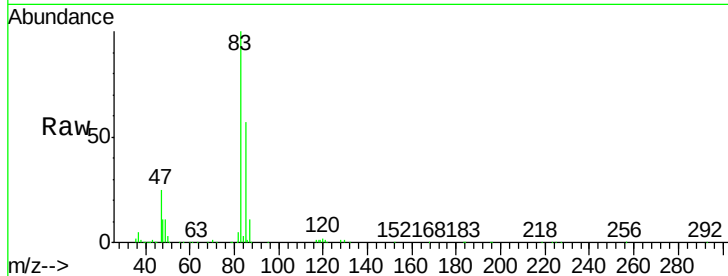
#29  
Chloroform  
Concen: 2.300 ppbv  
RT: 5.74 min Scan# 918  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 56.6  | 51.9  | 77.9  |

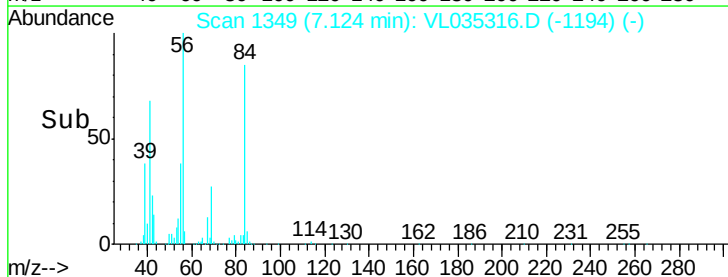
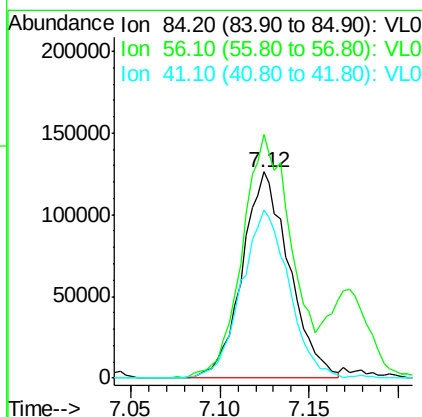
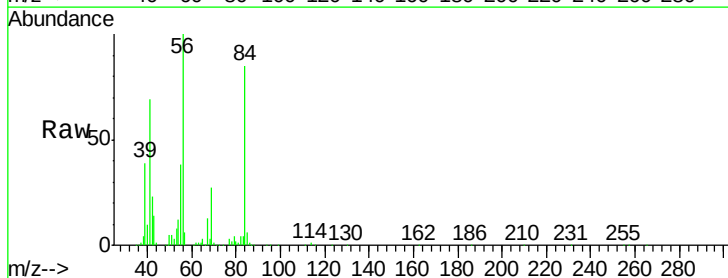
Manual Integrations  
APPROVED

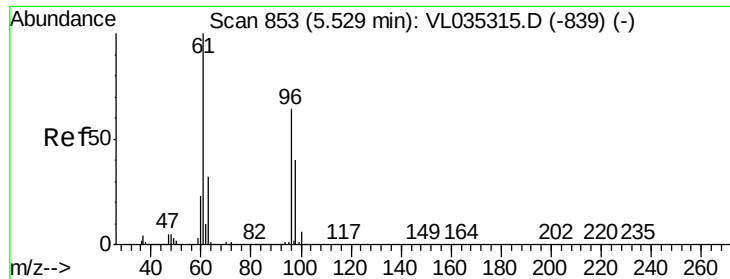
apatel  
8/6/2020 2:44:15 PM



#30  
Cyclohexane  
Concen: 2.410 ppbv  
RT: 7.12 min Scan# 1349  
Delta R.T. -0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 56      | 122.3 | 103.0 | 154.6 |
| 41      | 82.7  | 62.7  | 94.1  |





#31

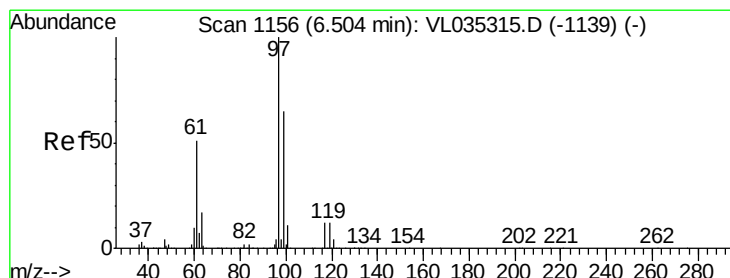
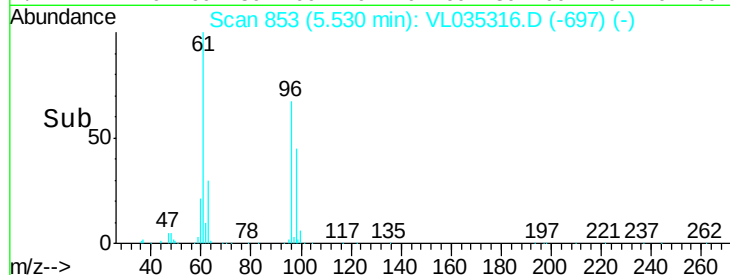
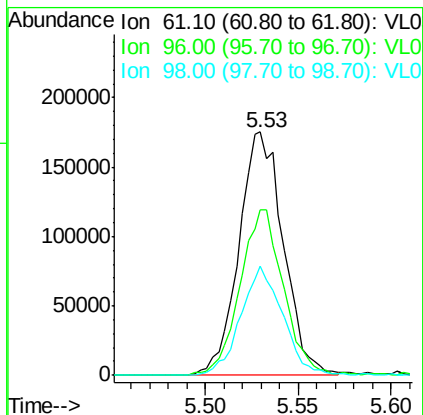
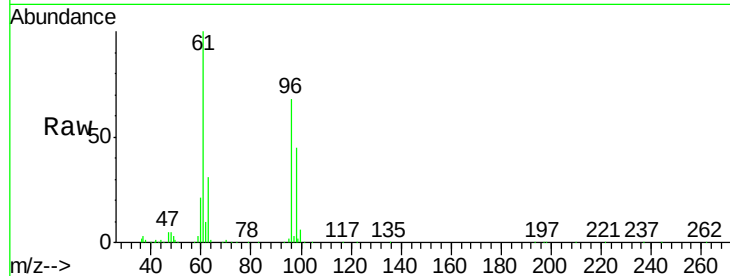
cis-1,2-Dichloroethene  
Concen: 2.472 ppbv  
RT: 5.53 min Scan# 853  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 61      | 100   | 290567 |       |       |
| 96      | 67.9  |        | 51.4  | 77.2  |
| 98      | 44.8  |        | 32.2  | 48.4  |

Manual Integrations  
APPROVED

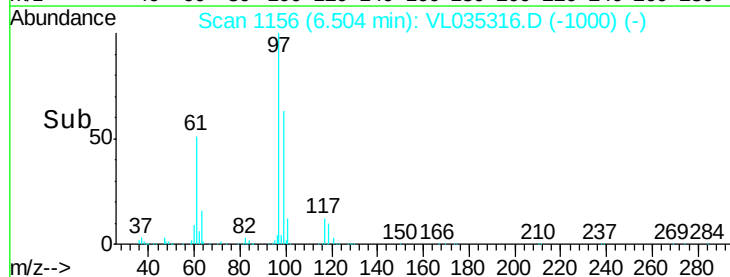
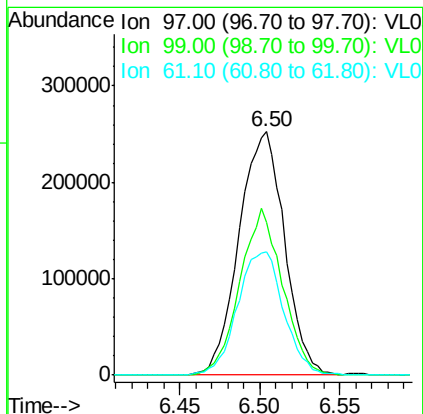
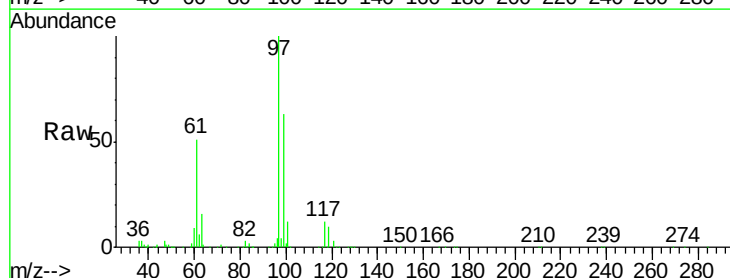
apatel  
8/6/2020 2:44:15 PM

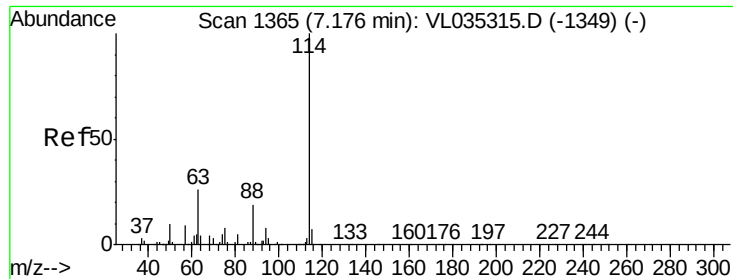


#32

1,1,1-Trichloroethane  
Concen: 2.128 ppbv  
RT: 6.50 min Scan# 1156  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 97      | 100   | 492702 |       |       |
| 99      | 64.0  |        | 52.2  | 78.4  |
| 61      | 51.4  |        | 40.9  | 61.3  |





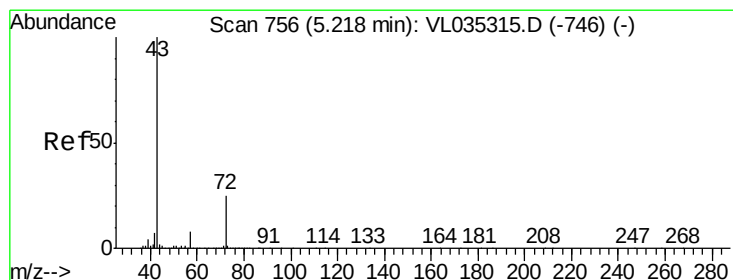
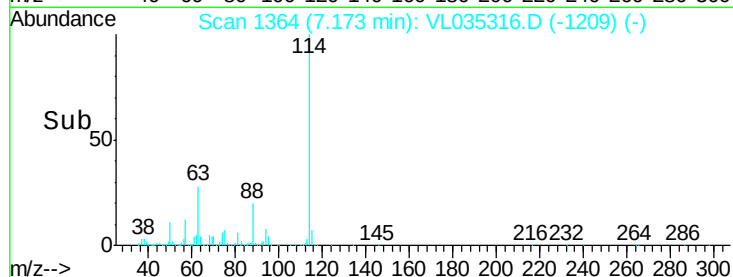
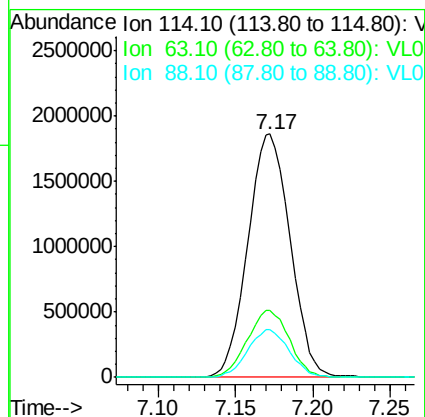
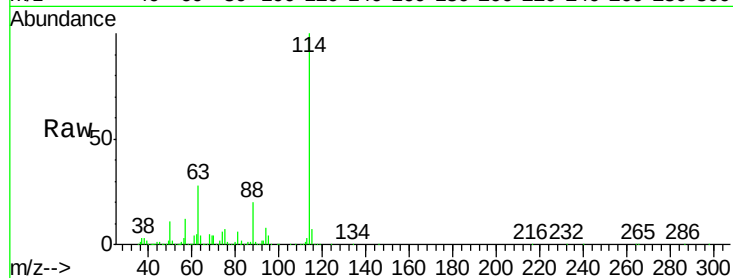
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1364  
 Delta R.T. -0.00 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 27.5  | 21.5  | 32.3  |
| 88      | 19.4  | 15.3  | 22.9  |

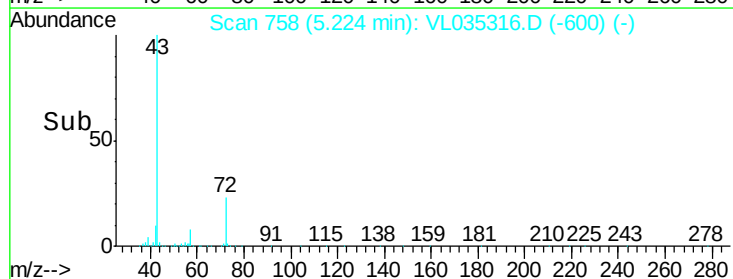
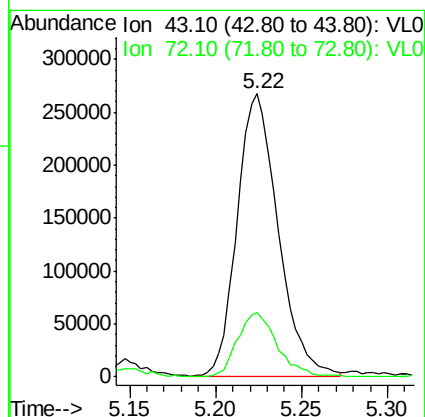
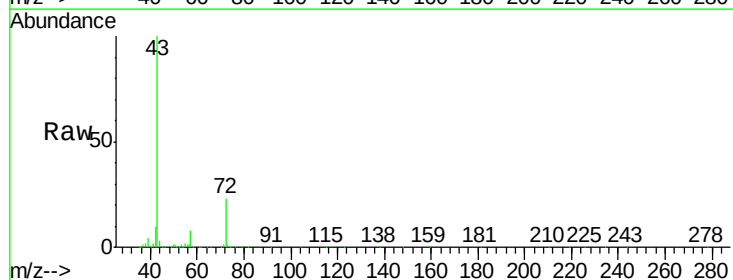
Manual Integrations  
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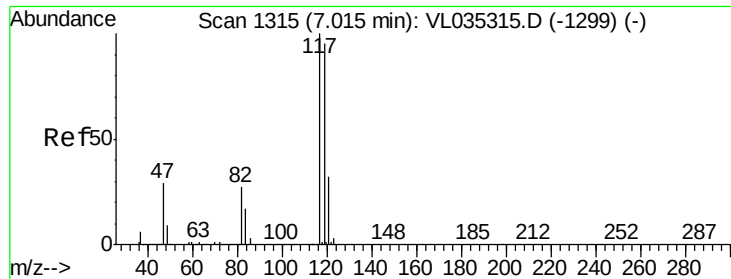
apatel  
 8/6/2020 2:44:15 PM



#34  
 2-Butanone  
 Concen: 2.435 ppbv  
 RT: 5.22 min Scan# 758  
 Delta R.T. 0.01 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 22.2  | 19.2  | 28.8  |





#35

Carbon Tetrachloride

Concen: 2.088 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

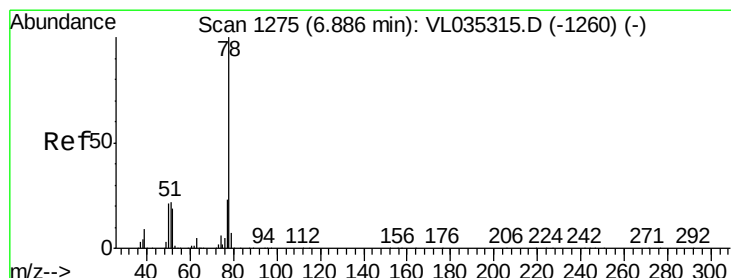
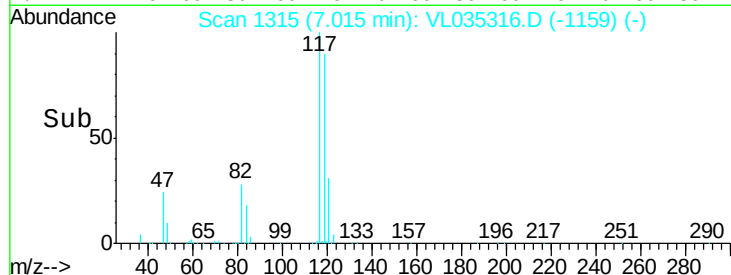
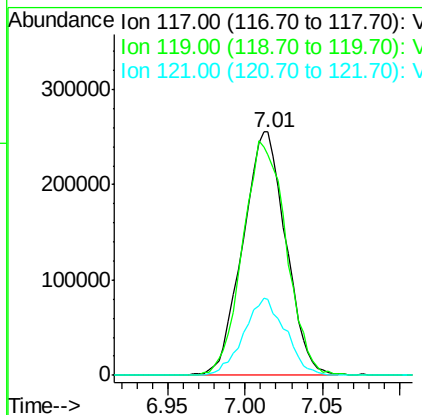
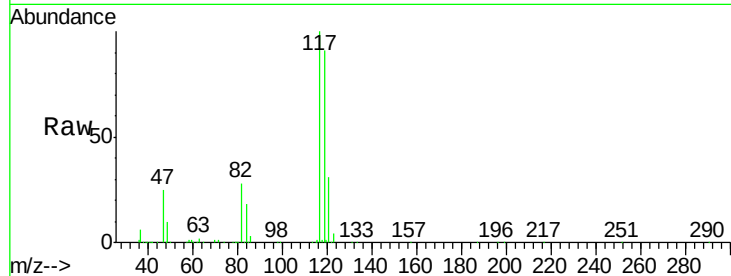
ClientSampleId :

VSTDIC002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 117   | Resp: | 495506 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 90.3  | 76.1  | 114.1  |
| 121       | 31.0  | 25.6  | 38.4   |

Manual Integrations  
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apatel  
8/6/2020 2:44:15 PM



#36

Benzene

Concen: 2.371 ppbv

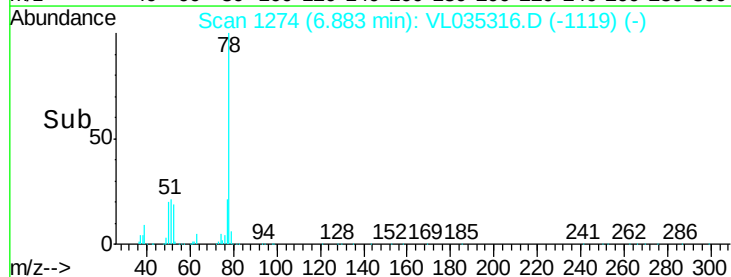
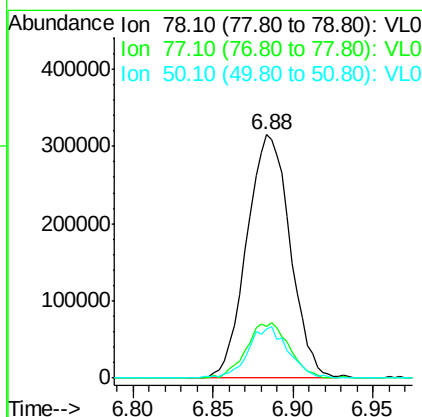
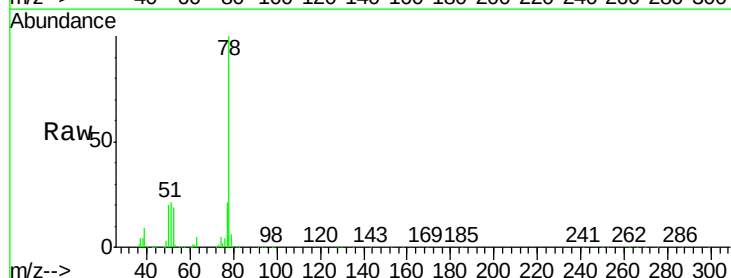
RT: 6.88 min Scan# 1274

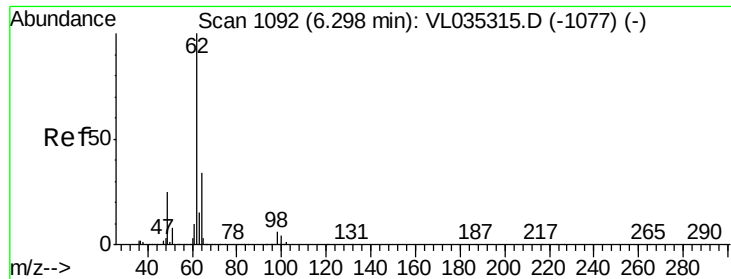
Delta R.T. -0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 78    | Resp: | 584110 |
| Ion Ratio | Lower | Upper |        |
| 78        | 100   |       |        |
| 77        | 21.5  | 18.4  | 27.6   |
| 50        | 20.0  | 16.6  | 25.0   |





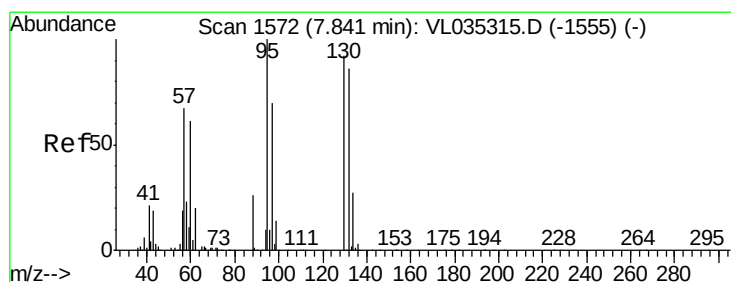
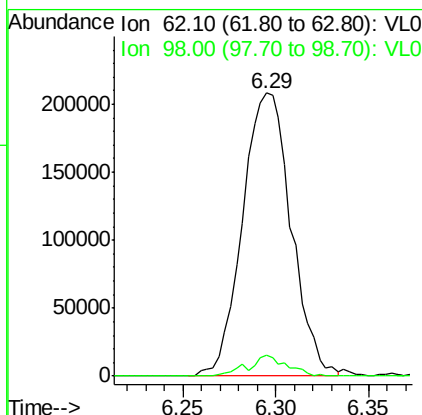
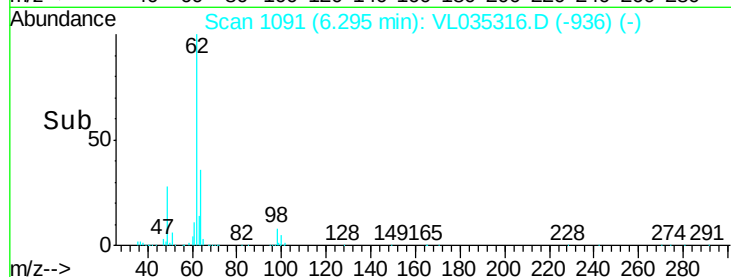
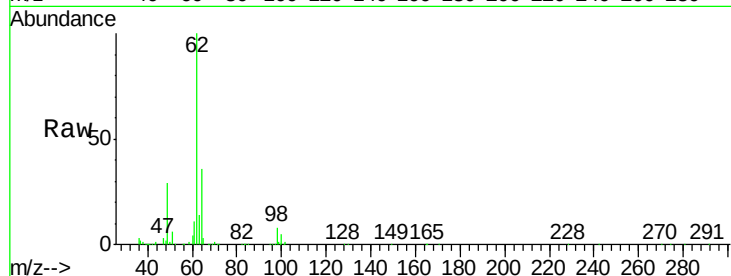
#37  
 1,2-Dichloroethane  
 Concen: 2.213 ppbv  
 RT: 6.29 min Scan# 1091  
 Delta R.T. -0.00 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 6.2   | 4.6   | 7.0   |

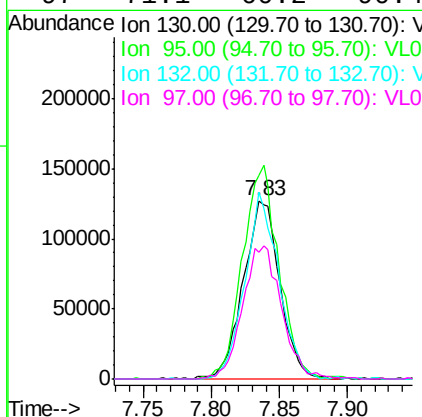
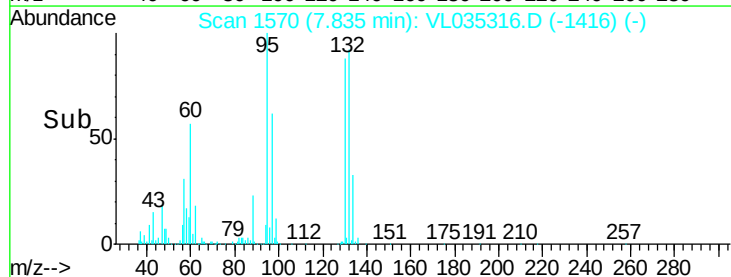
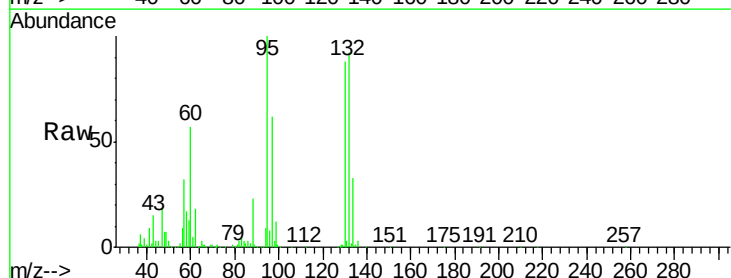
Manual Integrations  
 APPROVED

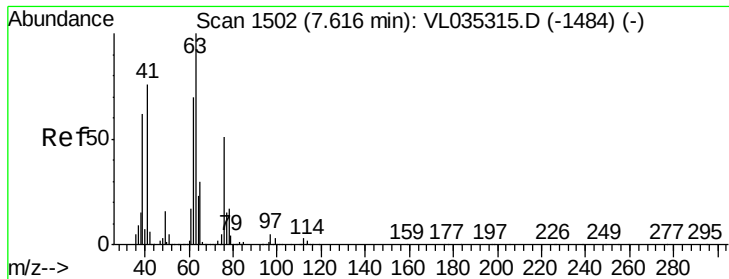
apatel  
 8/6/2020 2:44:15 PM



#38  
 Trichloroethene  
 Concen: 2.327 ppbv  
 RT: 7.83 min Scan# 1570  
 Delta R.T. -0.01 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 114.2 | 86.3  | 129.5 |
| 132     | 104.5 | 74.2  | 111.2 |
| 97      | 71.1  | 60.2  | 90.4  |





#39

1,2-Dichloropropane

Concen: 2.360 ppbv m

RT: 7.62 min Scan# 1502

Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

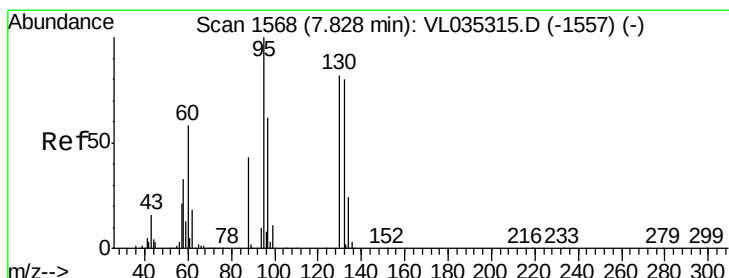
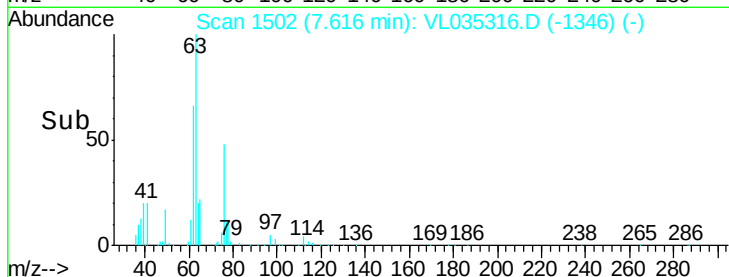
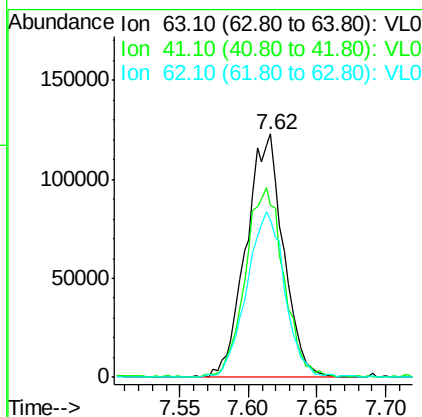
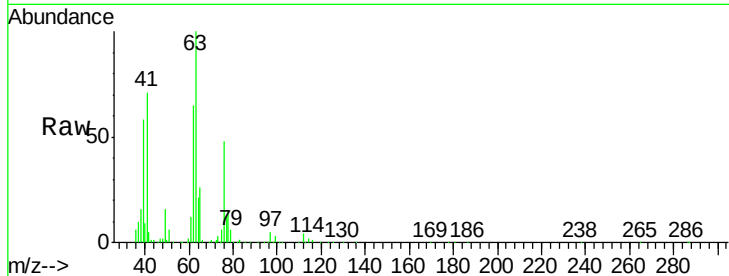
ClientSampleId :

VSTDIC002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 63    | Resp: | 231917 |
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 41        | 70.5  | 61.0  | 91.4   |
| 62        | 64.8  | 55.8  | 83.8   |

Manual Integrations  
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8/6/2020 2:44:15 PM



#40

1,4-Dioxane

Concen: 2.331 ppbv m

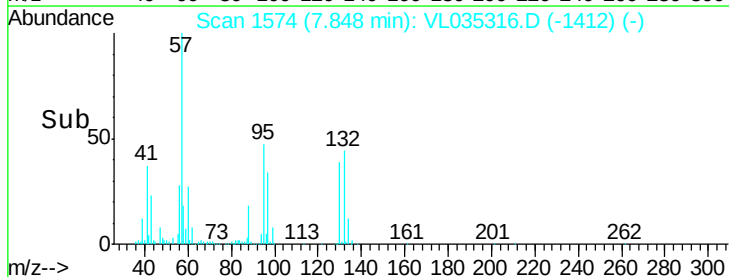
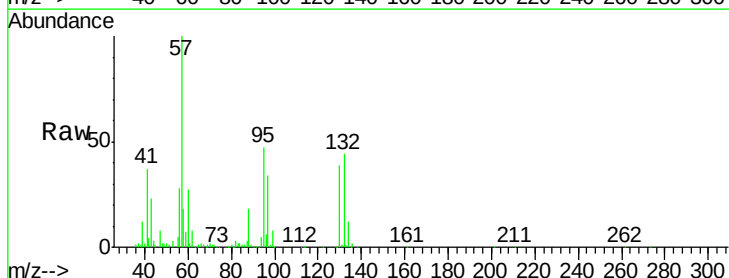
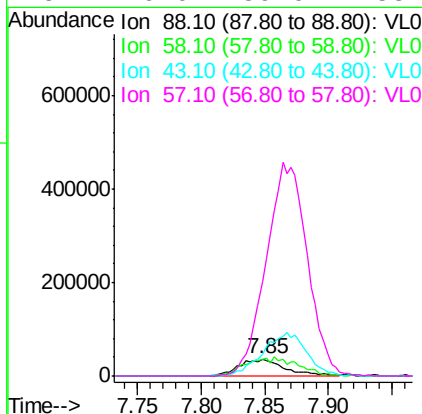
RT: 7.85 min Scan# 1574

Delta R.T. 0.02 min

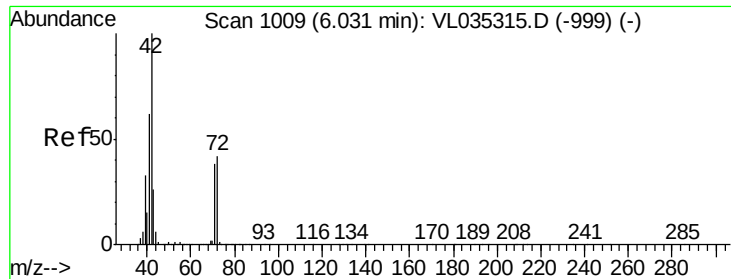
Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 88    | Resp: | 90209   |
| Ion Ratio | Lower | Upper |         |
| 88        | 100   |       |         |
| 58        | 0.0   | 95.4  | 143.2#  |
| 43        | 0.0   | 172.7 | 259.1#  |
| 57        | 0.0   | 759.0 | 1138.4# |







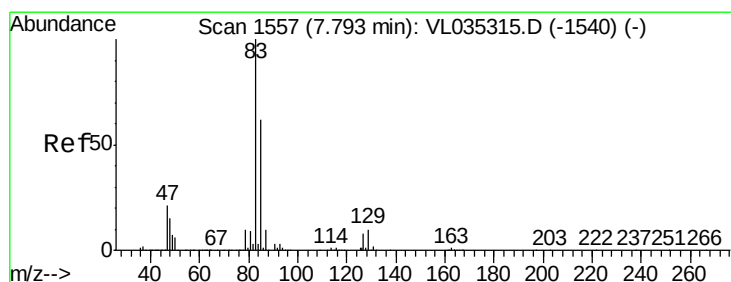
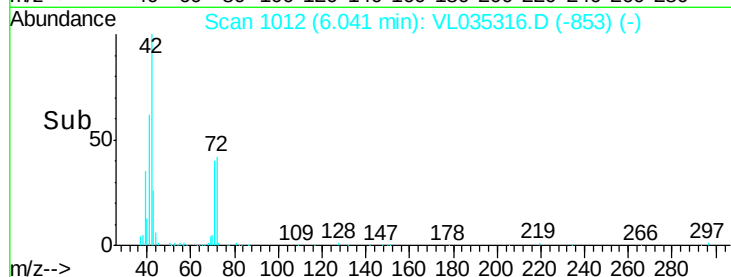
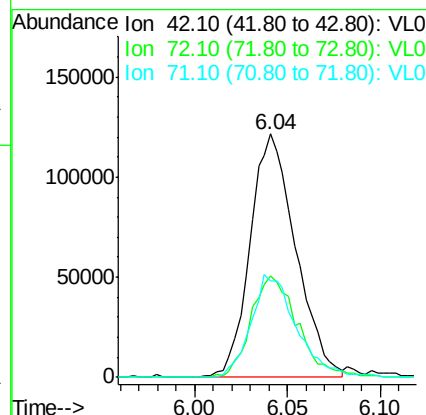
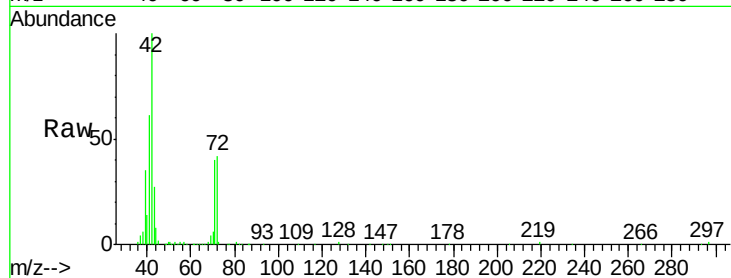
#41  
Tetrahydrofuran  
Concen: 2.343 ppbv  
RT: 6.04 min Scan# 1012  
Delta R.T. 0.01 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 42.8  | 33.8  | 50.8  |
| 71      | 42.2  | 32.7  | 49.1  |

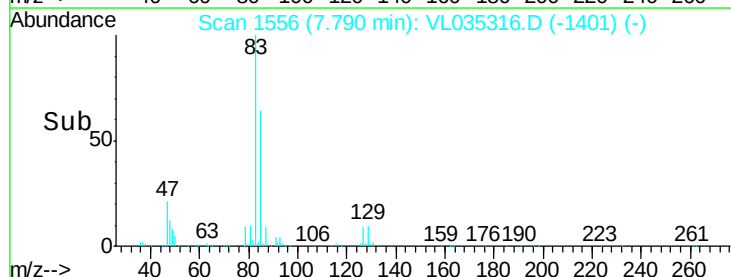
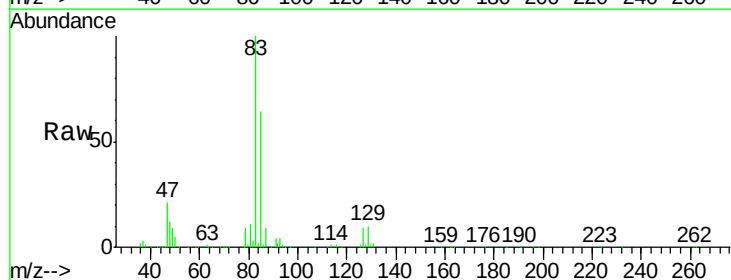
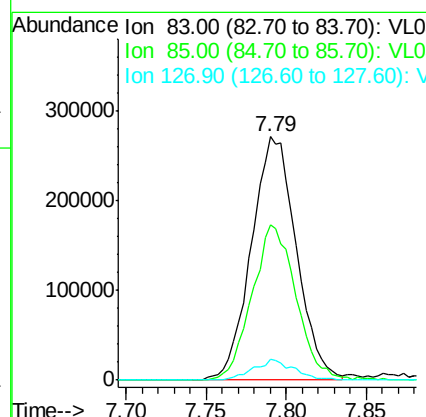
Manual Integrations  
APPROVED

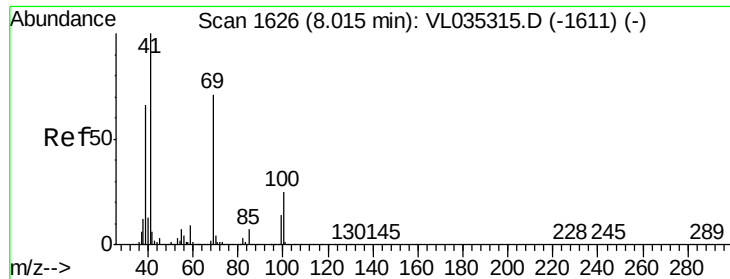
apatel  
8/6/2020 2:44:15 PM



#42  
Bromodichloromethane  
Concen: 2.277 ppbv  
RT: 7.79 min Scan# 1556  
Delta R.T. -0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.9  | 49.9  | 74.9  |
| 127     | 8.5   | 6.6   | 10.0  |





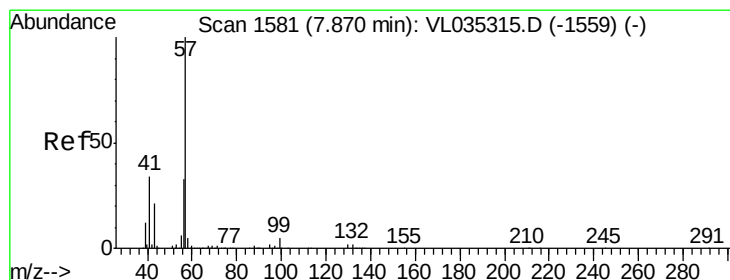
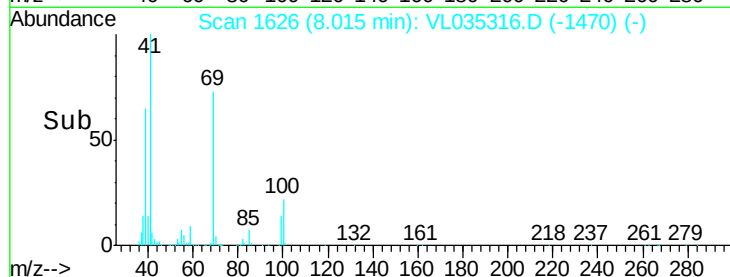
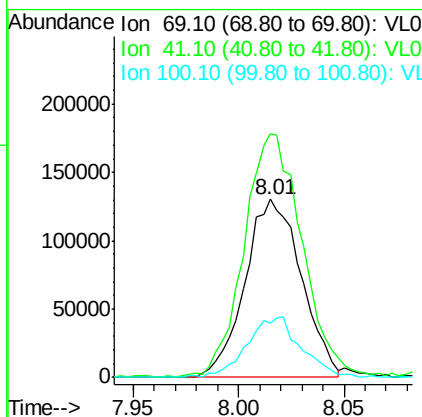
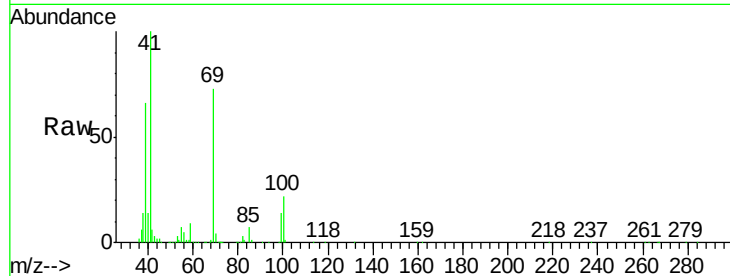
#43  
Methyl Methacrylate  
Concen: 2.244 ppbv  
RT: 8.01 min Scan# 1626  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 142.8 | 110.9 | 166.3 |
| 100     | 33.0  | 26.0  | 39.0  |

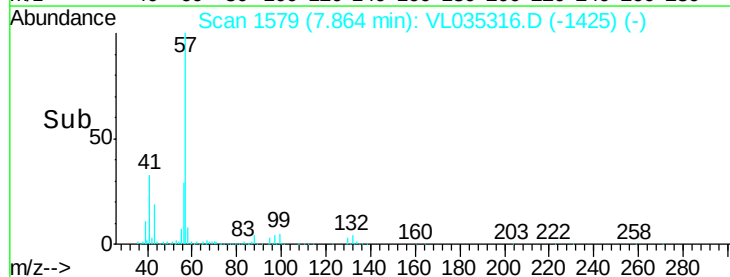
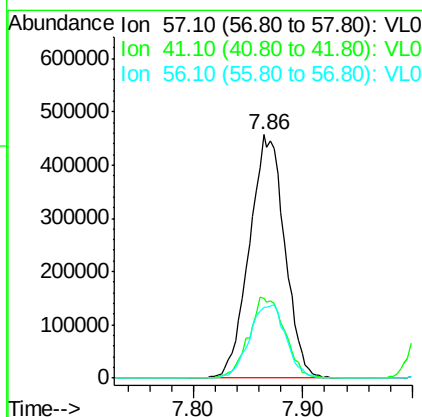
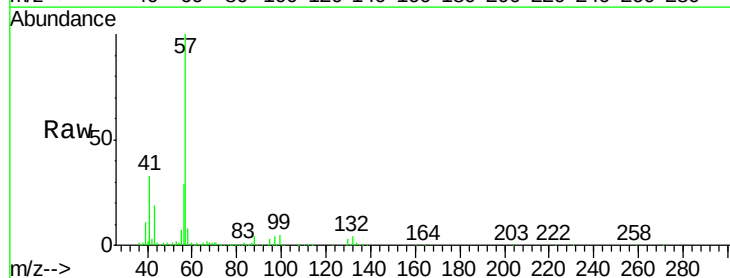
Manual Integrations  
APPROVED

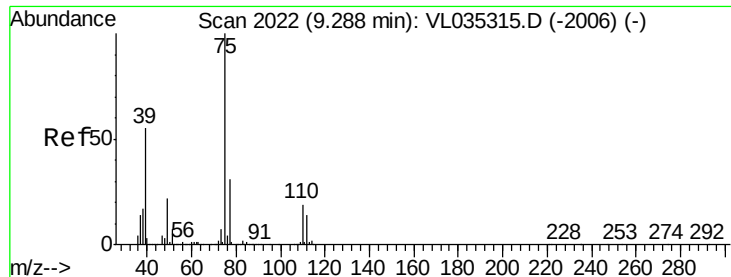
apatel  
8/6/2020 2:44:15 PM



#44  
2,2,4-Trimethylpentane  
Concen: 2.358 ppbv m  
RT: 7.86 min Scan# 1579  
Delta R.T. -0.01 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 33.6  | 26.7  | 40.1  |
| 56      | 0.0   | 25.4  | 38.0# |





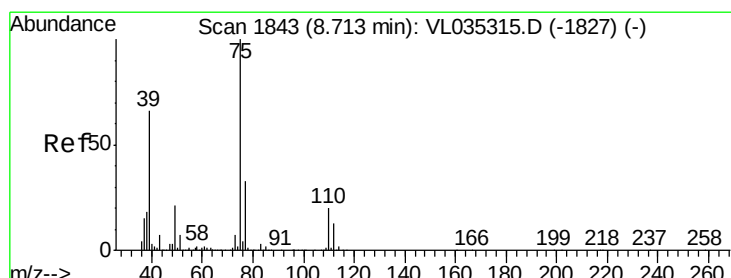
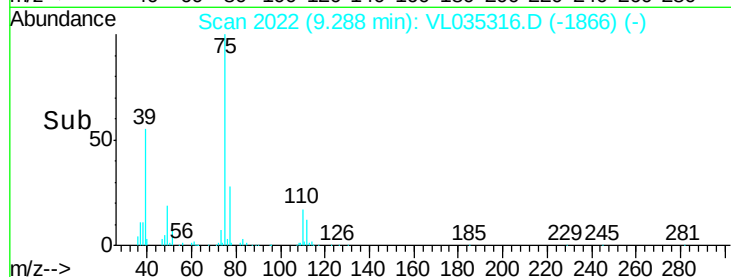
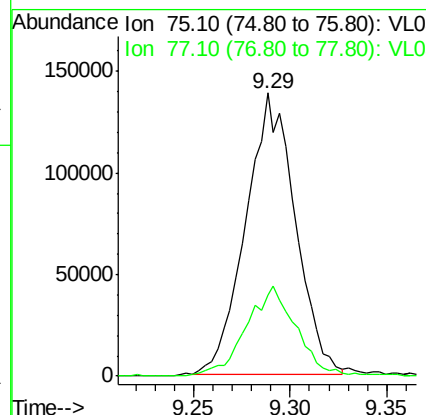
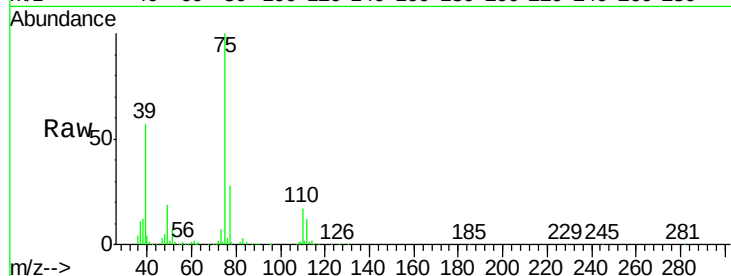
#45  
t-1,3-Dichloropropene  
Concen: 2.274 ppbv  
RT: 9.29 min Scan# 2022  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 29.1  | 24.6  | 37.0  |

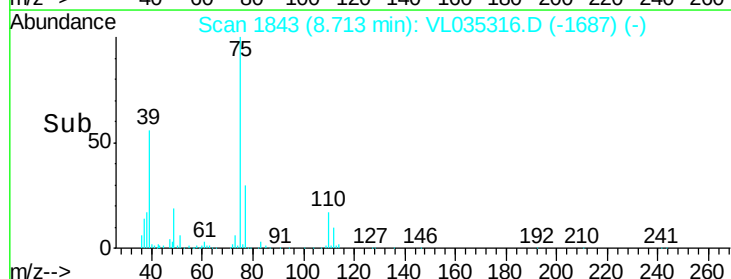
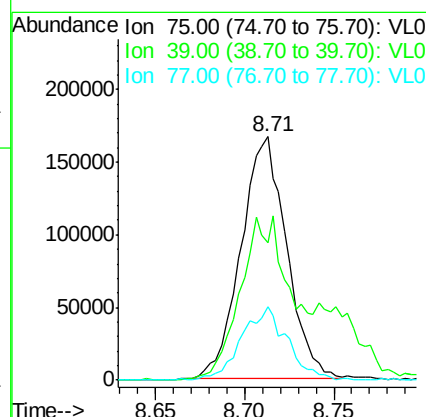
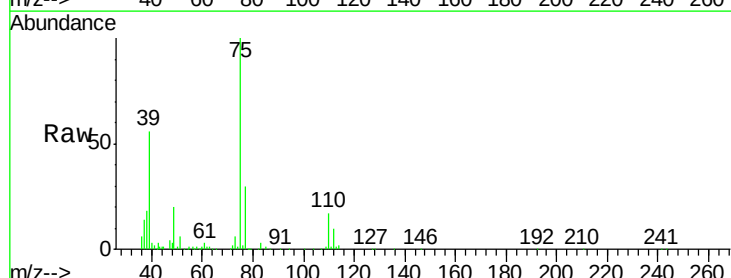
Manual Integrations  
APPROVED

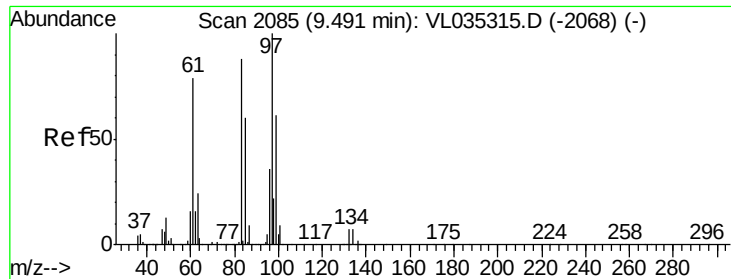
apatel  
8/6/2020 2:44:15 PM



#46  
cis-1,3-Dichloropropene  
Concen: 2.272 ppbv  
RT: 8.71 min Scan# 1843  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 39      | 56.0  | 52.6  | 79.0  |
| 77      | 29.8  | 26.5  | 39.7  |





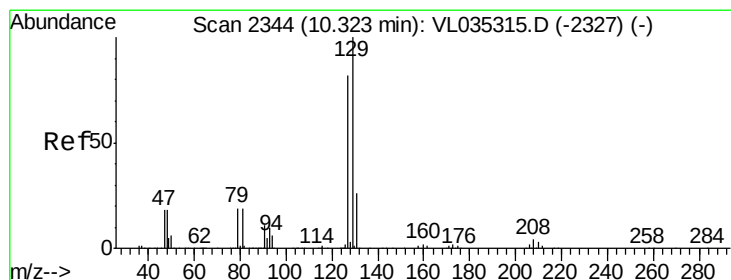
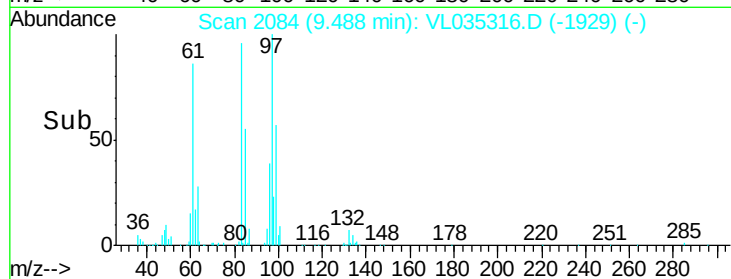
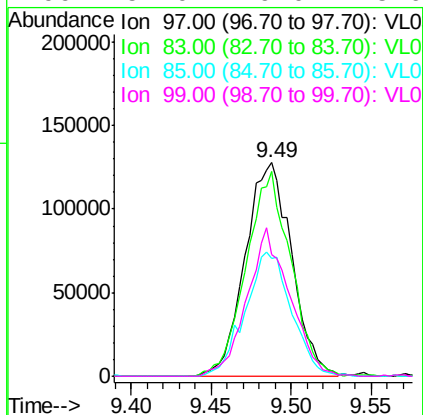
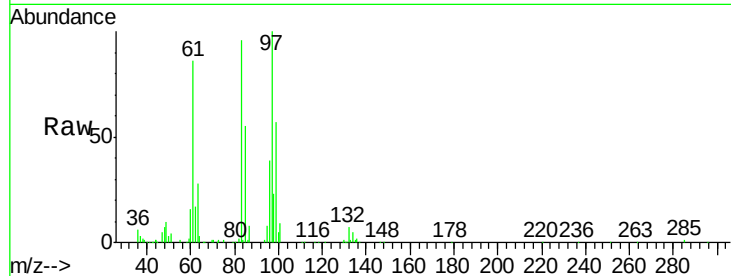
#47  
 1,1,2-Trichloroethane  
 Concen: 2.186 ppbv  
 RT: 9.49 min Scan# 2084  
 Delta R.T. -0.00 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 96.1 | 70.6  | 105.8 |       |
| 85      | 55.2 | 47.8  | 71.8  |       |
| 99      | 57.0 | 49.0  | 73.6  |       |

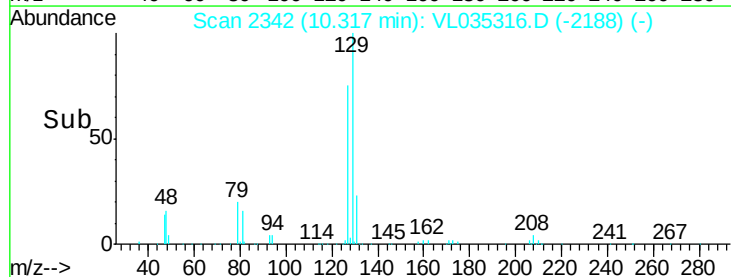
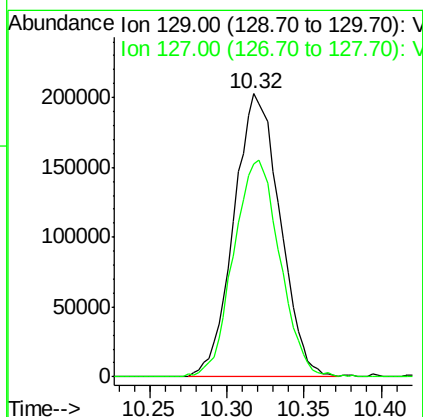
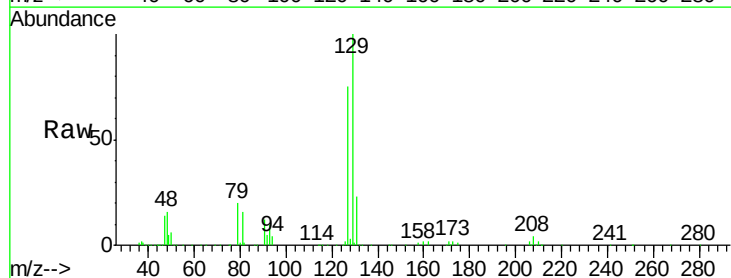
Manual Integrations  
 APPROVED

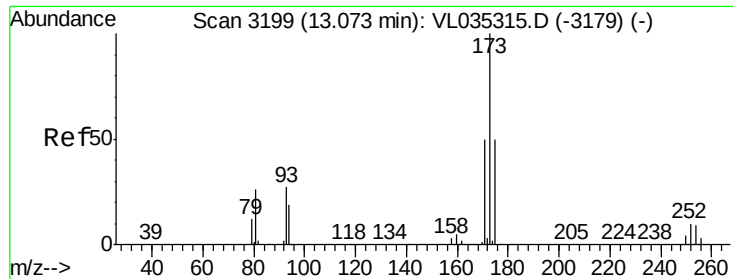
apatel  
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#48  
 Dibromochloromethane  
 Concen: 2.303 ppbv  
 RT: 10.32 min Scan# 2342  
 Delta R.T. -0.01 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 77.1 | 39.0  | 117.0 |       |





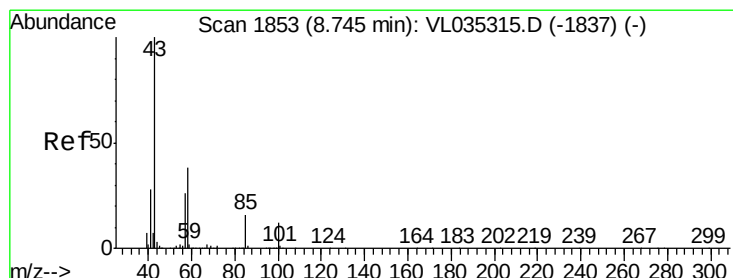
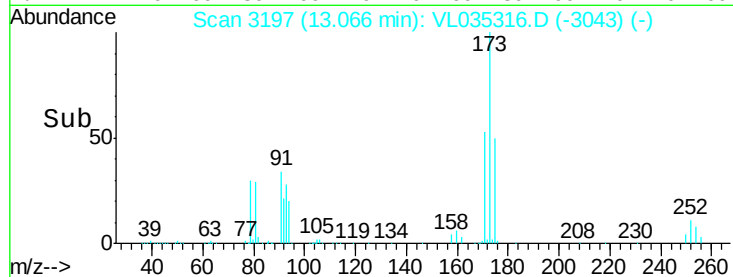
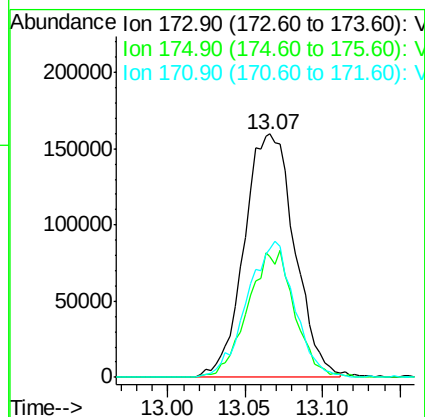
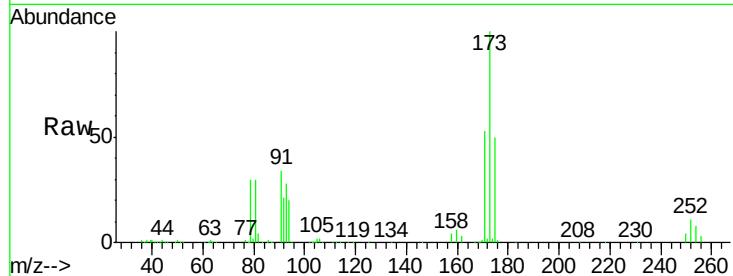
#49  
Bromoform  
Concen: 2.200 ppbv  
RT: 13.07 min Scan# 3197  
Delta R.T. -0.01 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.3  | 39.8  | 59.6  |
| 171     | 52.5  | 42.0  | 63.0  |

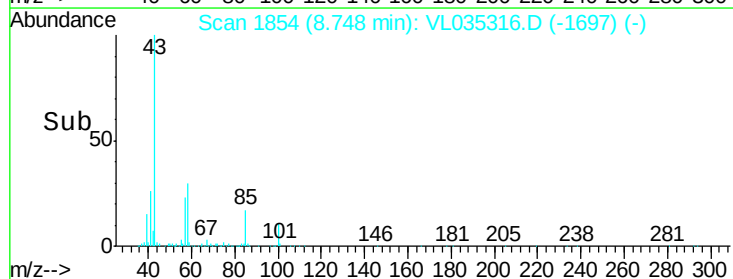
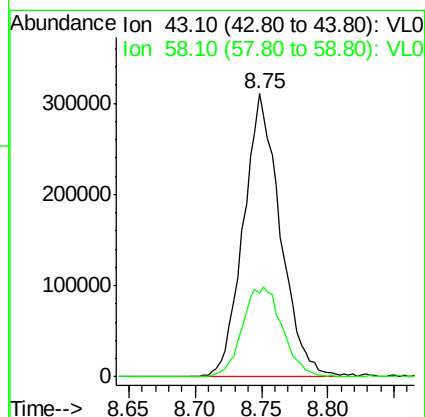
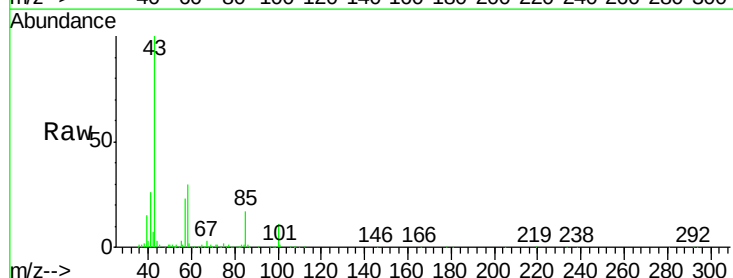
Manual Integrations  
APPROVED

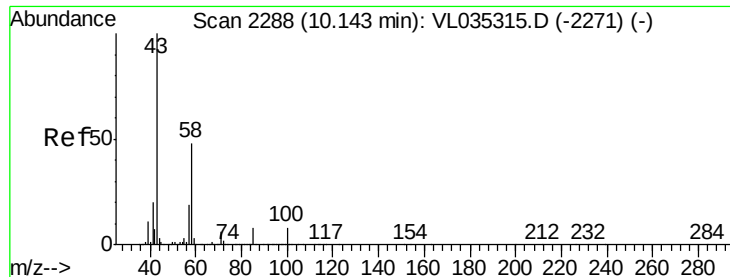
apatel  
8/6/2020 2:44:15 PM



#50  
4-Methyl-2-Pentanone  
Concen: 2.303 ppbv  
RT: 8.75 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 34.7  | 29.8  | 44.6  |





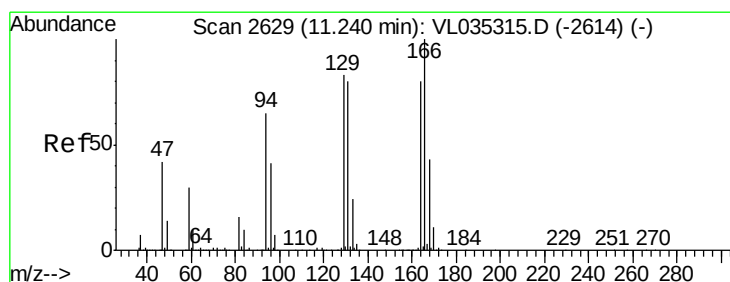
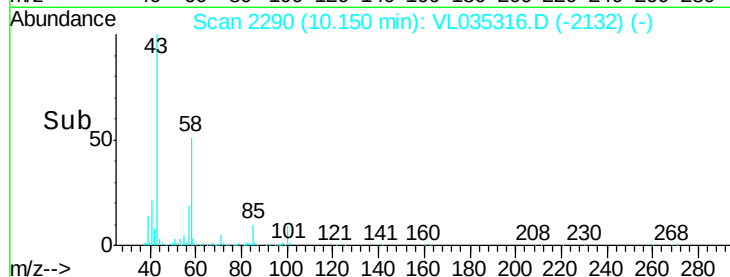
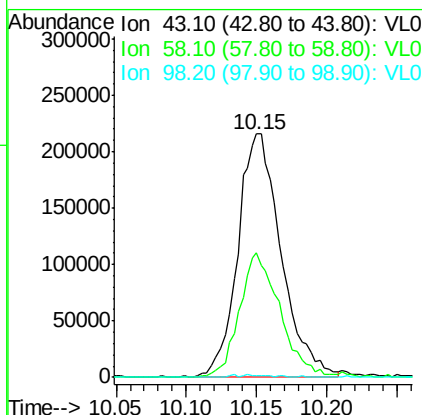
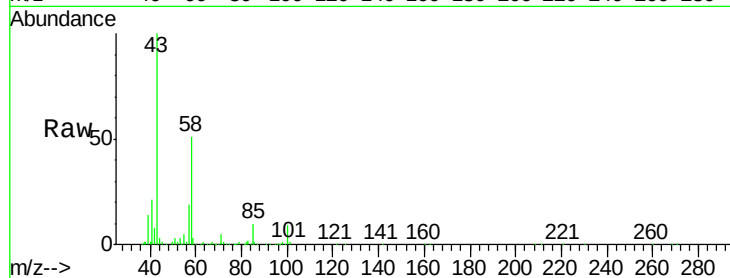
#51  
2-Hexanone  
Concen: 2.339 ppbv  
RT: 10.15 min Scan# 2290  
Delta R.T. 0.01 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 48.6  | 39.8  | 59.6  |
| 98      | 1.0   | 0.3   | 0.5#  |

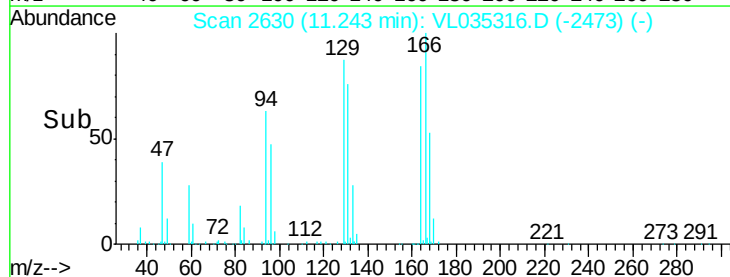
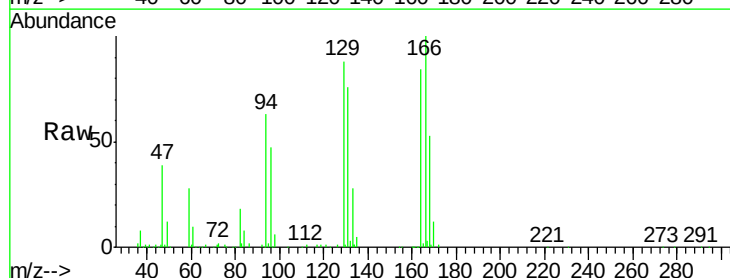
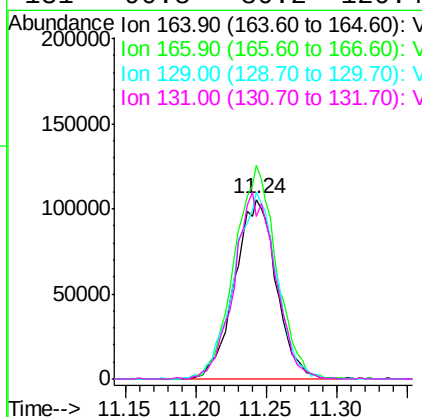
Manual Integrations  
APPROVED

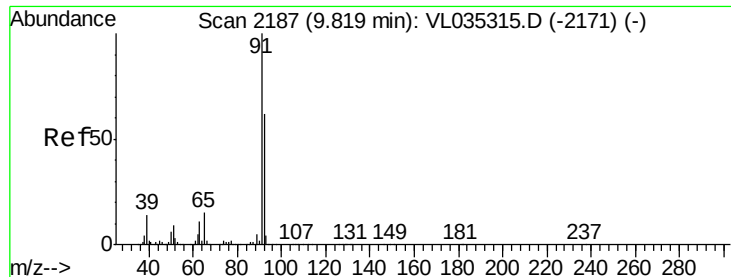
apatel  
8/6/2020 2:44:15 PM



#52  
Tetrachloroethene  
Concen: 2.308 ppbv  
RT: 11.24 min Scan# 2630  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 118.9 | 100.2 | 150.2 |
| 129     | 104.2 | 82.7  | 124.1 |
| 131     | 90.8  | 80.2  | 120.4 |





#53

Toluene

Concen: 2.386 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 624647

Ion Ratio Lower Upper

91 100

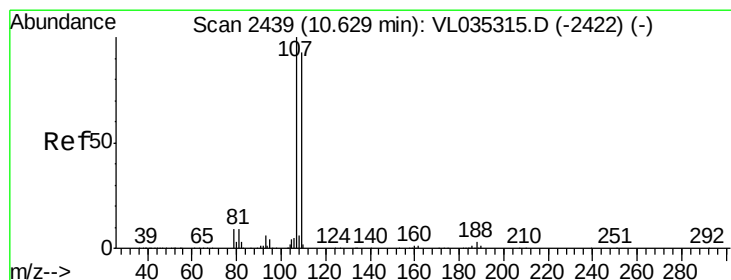
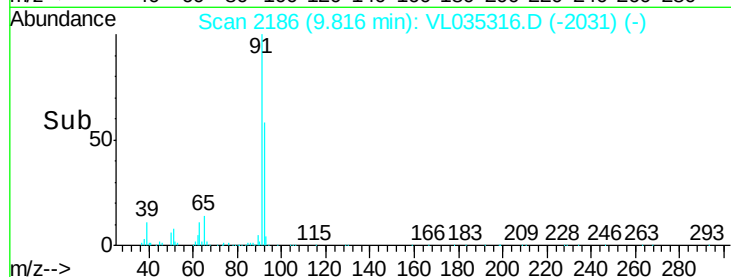
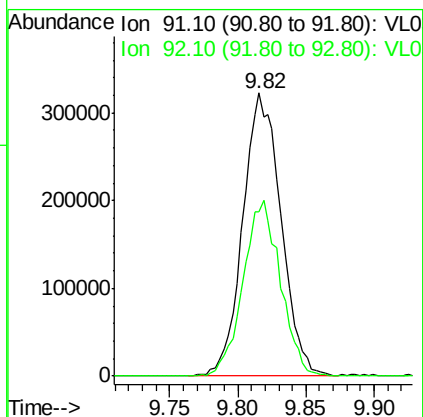
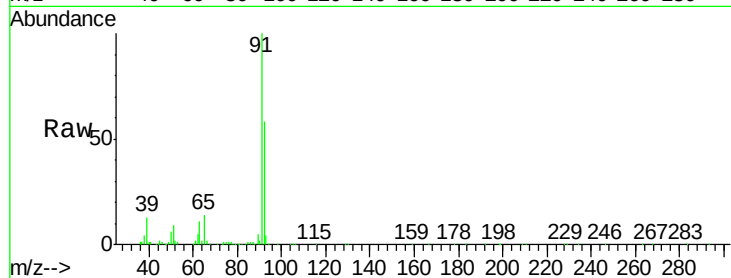
92 61.1 48.7 73.1

Manual Integrations

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apatel

8/6/2020 2:44:15 PM



#54

1,2-Dibromoethane

Concen: 2.278 ppbv

RT: 10.63 min Scan# 2438

Delta R.T. -0.00 min

Lab File: VL035316.D

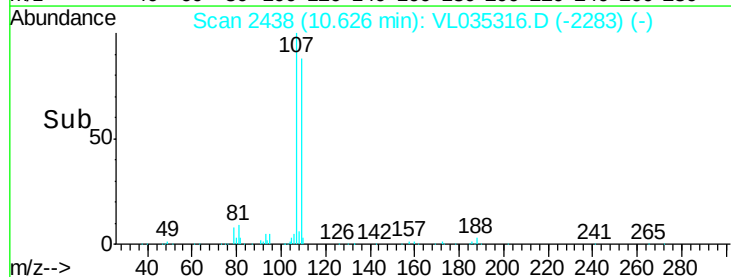
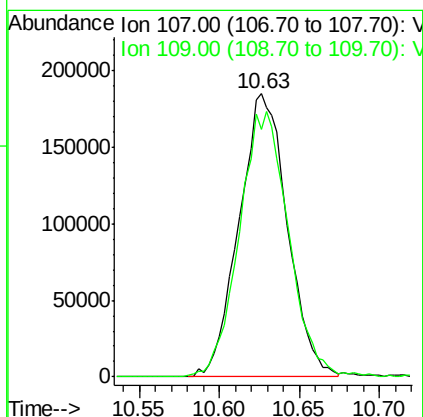
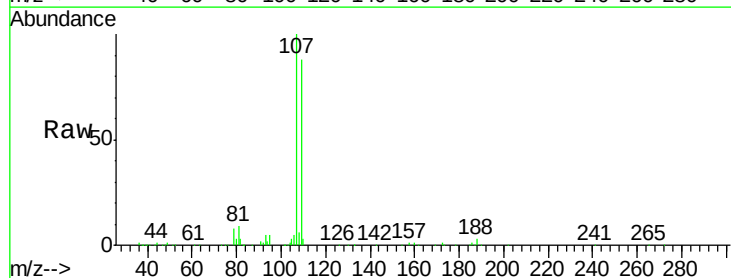
Acq: 3 Aug 2020 13:00

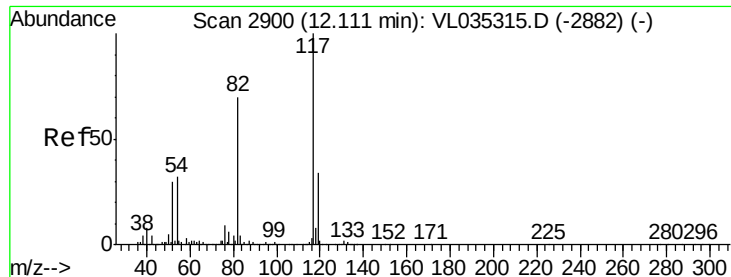
Tgt Ion: 107 Resp: 382369

Ion Ratio Lower Upper

107 100

109 86.9 74.4 111.6





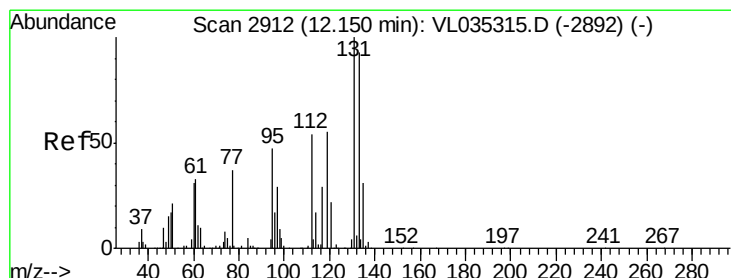
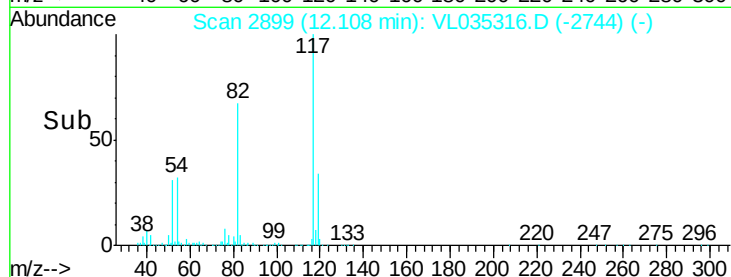
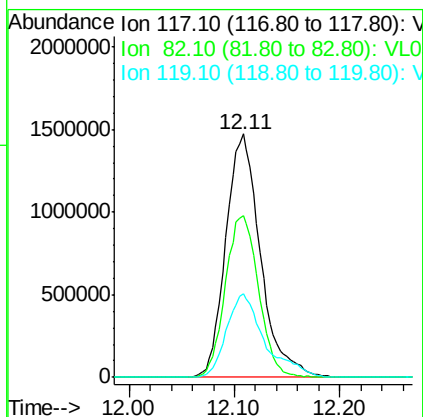
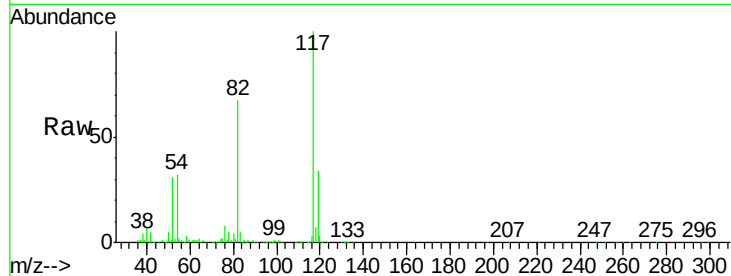
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.11 min Scan# 2899  
Delta R.T. -0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 64.0  | 50.6  | 76.0  |
| 119     | 37.8  | 24.1  | 36.1# |

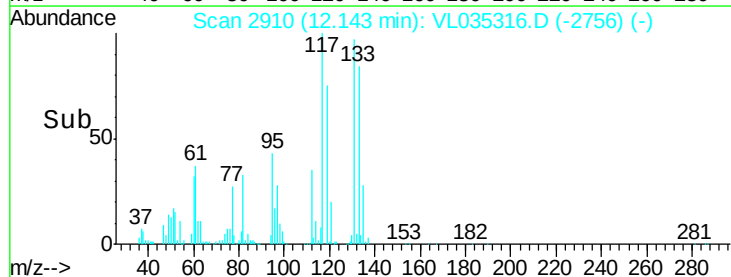
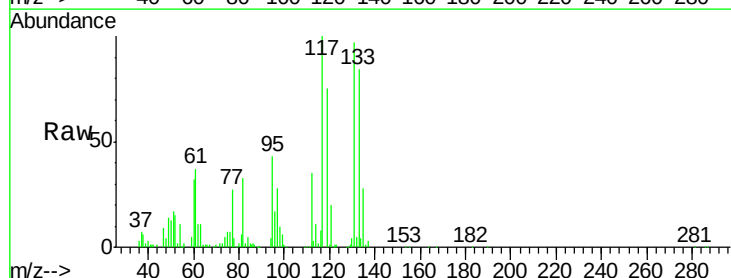
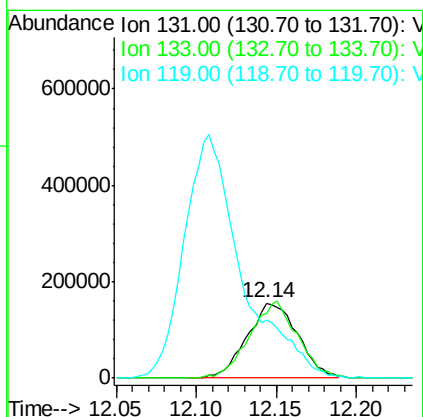
Manual Integrations  
APPROVED

apatel  
8/6/2020 2:44:15 PM

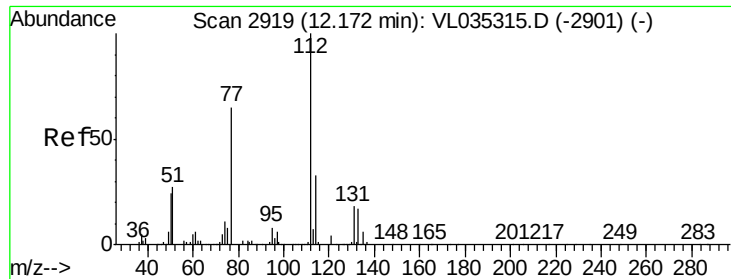


#56  
1,1,1,2-Tetrachloroethane  
Concen: 2.180 ppbv  
RT: 12.14 min Scan# 2910  
Delta R.T. -0.01 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 97.9  | 75.5  | 113.3 |
| 119     | 376.2 | 53.1  | 79.7# |







#57

Chlorobenzene

Concen: 2.208 ppbv

RT: 12.17 min Scan# 2917

Delta R.T. -0.01 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

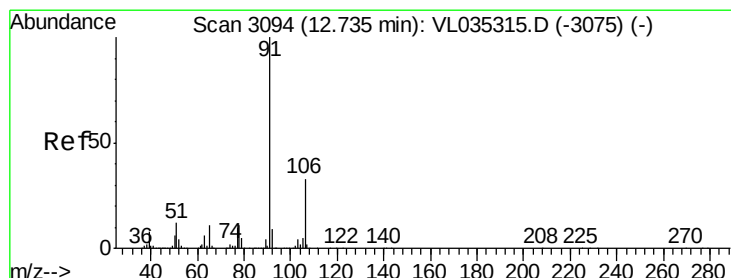
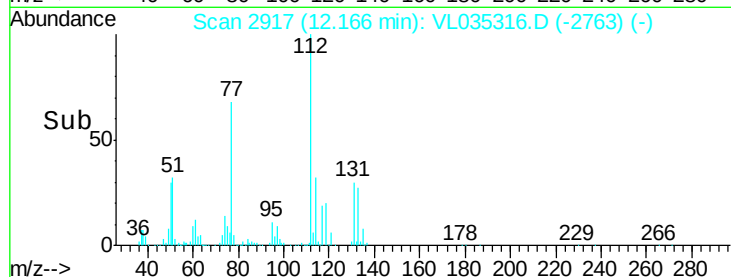
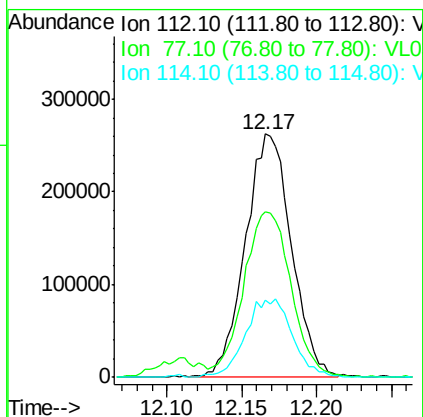
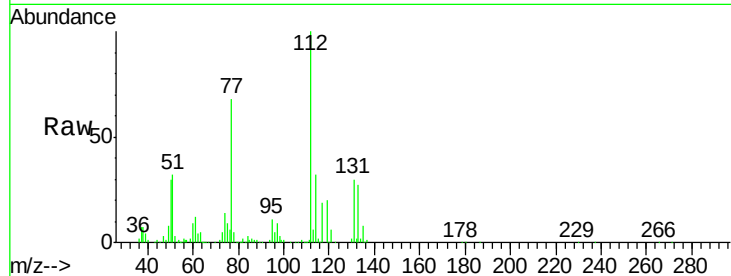
ClientSampleId :

VSTDIC002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 112   | Resp: | 557140 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 77        | 66.7  | 53.0  | 79.6   |
| 114       | 31.7  | 30.0  | 36.6   |

Manual Integrations  
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#58

Ethyl Benzene

Concen: 2.468 ppbv m

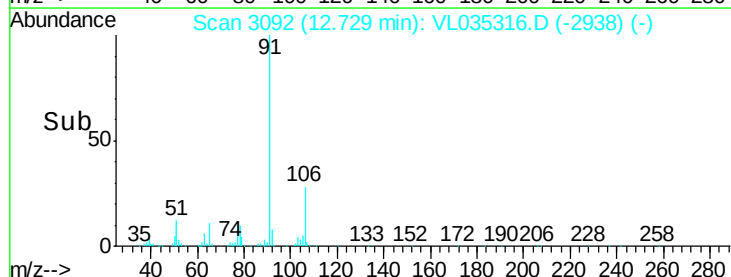
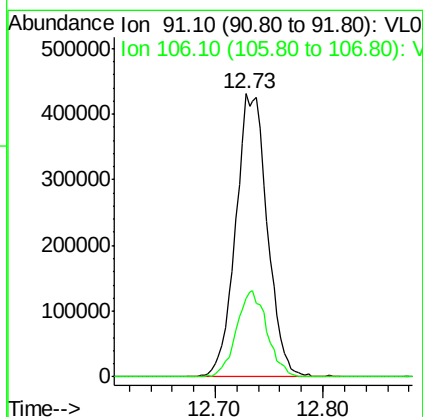
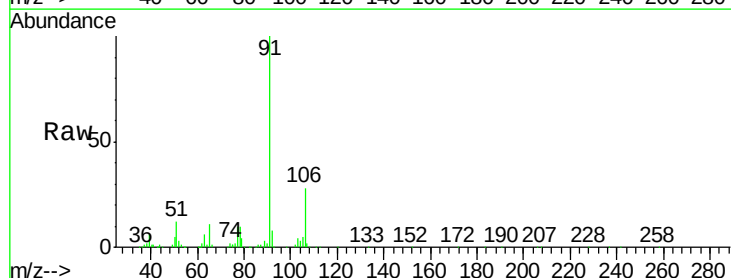
RT: 12.73 min Scan# 3092

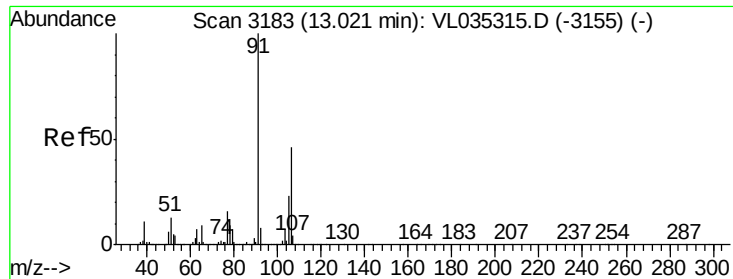
Delta R.T. -0.01 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 876583 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 106       | 27.9  | 26.3  | 39.5   |





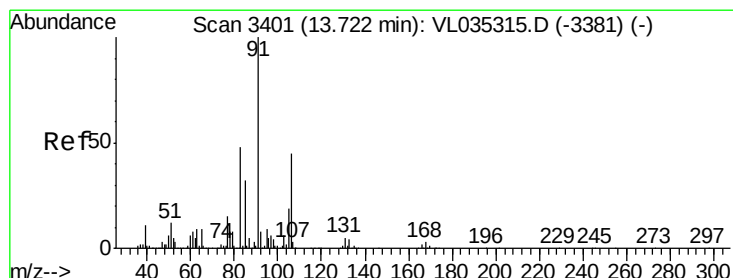
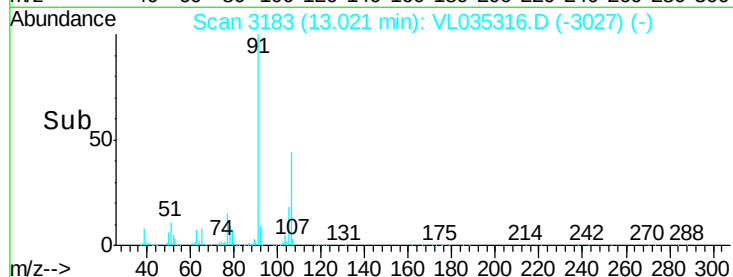
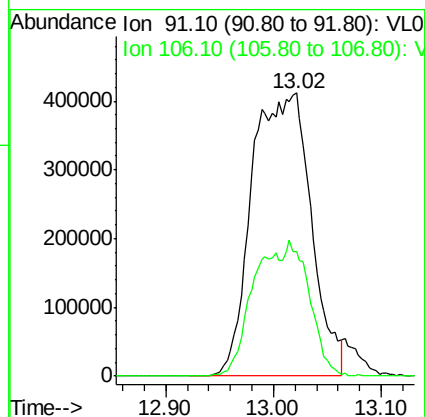
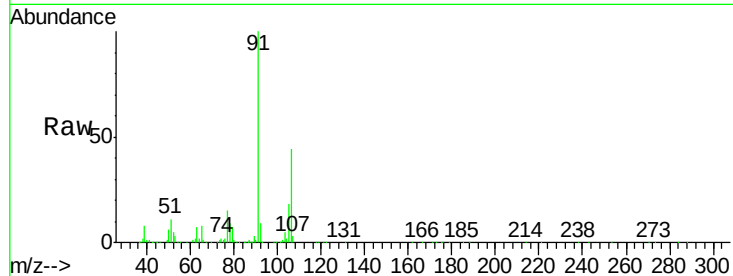
#59  
m/p-Xylene  
Concen: 4.753 ppbv m  
RT: 13.02 min Scan# 3183  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tot Ion: 91 Resp: 1571602  
Ion Ratio Lower Upper  
91 100  
106 44.3 36.6 55.0

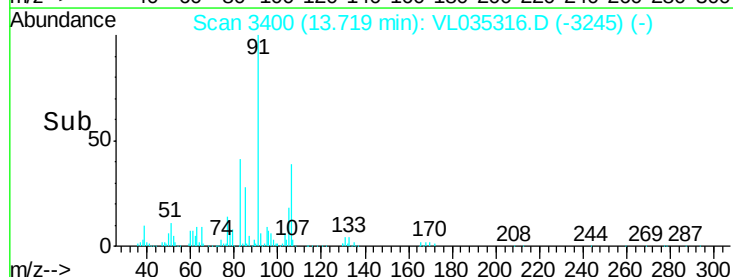
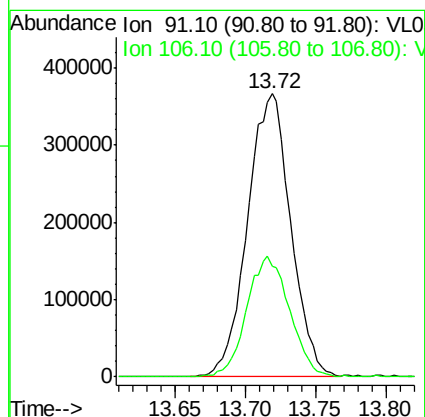
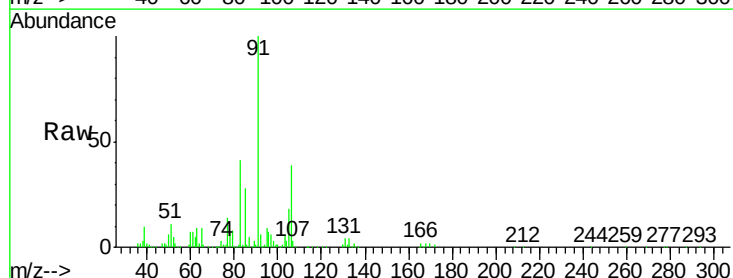
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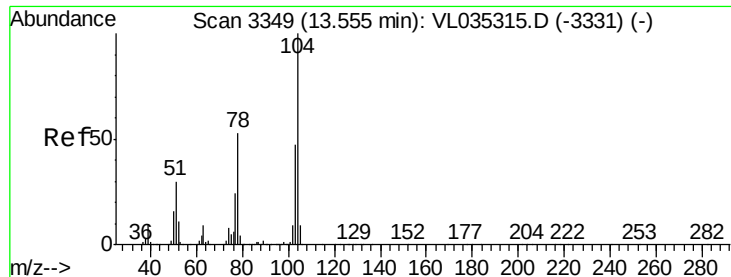
apatel  
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#60  
o-Xylene  
Concen: 2.379 ppbv  
RT: 13.72 min Scan# 3400  
Delta R.T. -0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Tgt Ion: 91 Resp: 784717  
Ion Ratio Lower Upper  
91 100  
106 42.2 22.4 67.3





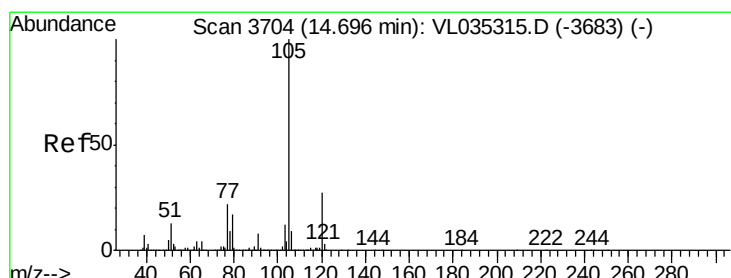
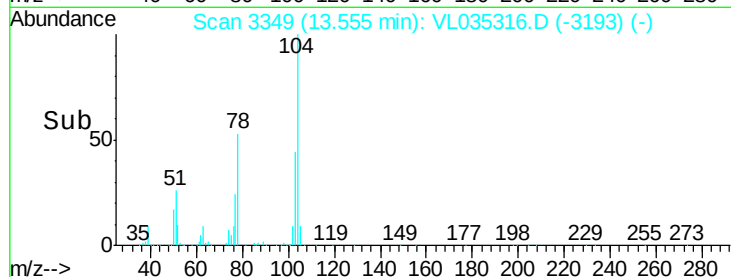
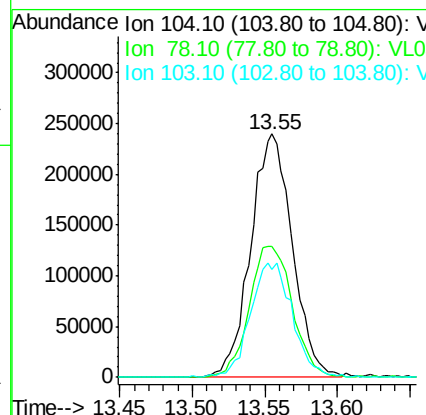
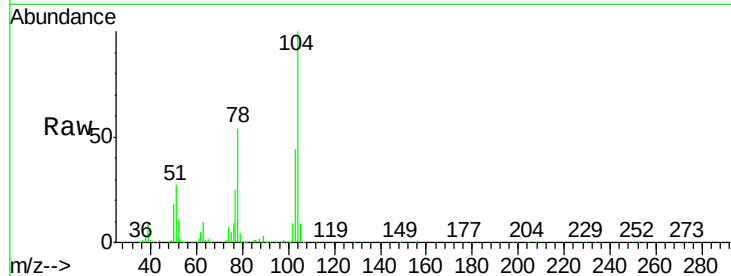
#61  
Stvrene  
Concen: 2.396 ppbv  
RT: 13.55 min Scan# 3349  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 56.0  | 43.1  | 64.7  |
| 103     | 47.4  | 37.6  | 56.4  |

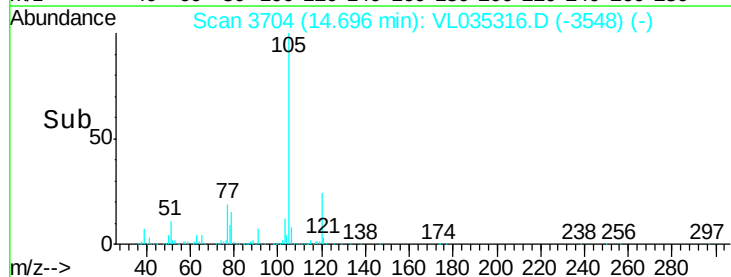
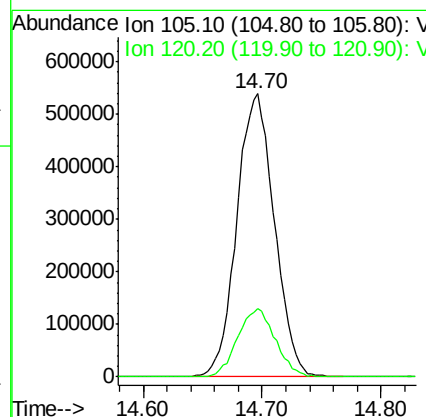
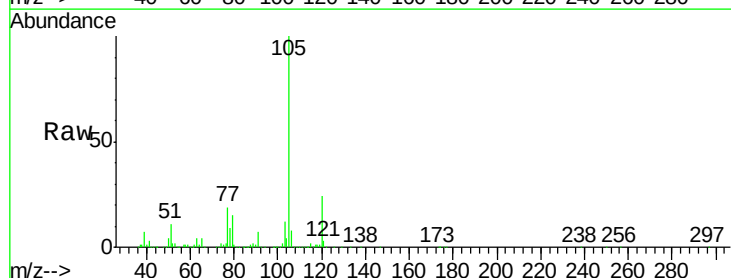
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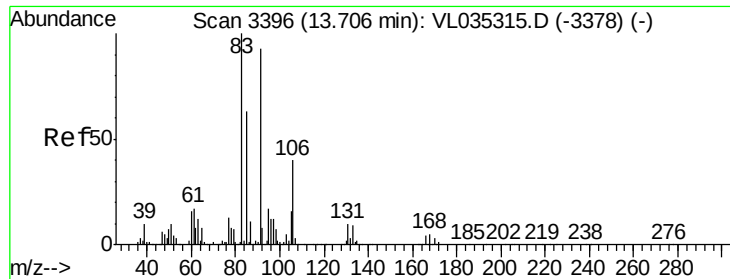
apatel  
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#62  
Isopropylbenzene  
Concen: 2.401 ppbv  
RT: 14.70 min Scan# 3704  
Delta R.T. 0.00 min  
Lab File: VL035316.D  
Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 24.1  | 21.0  | 31.4  |





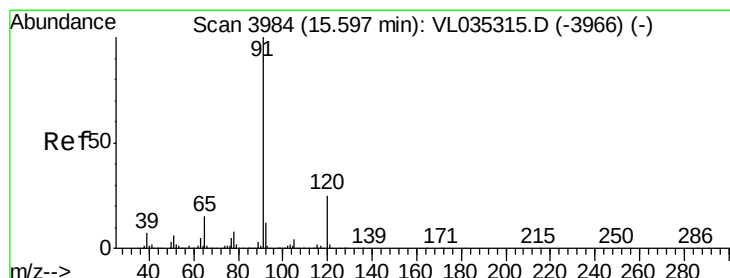
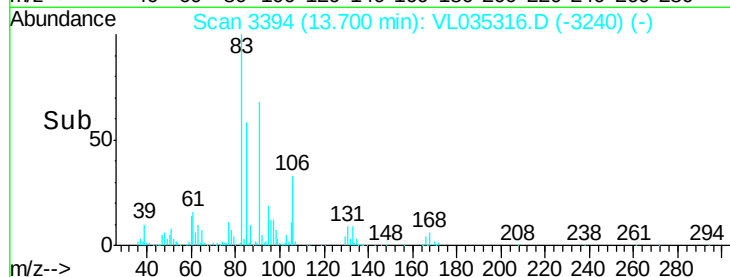
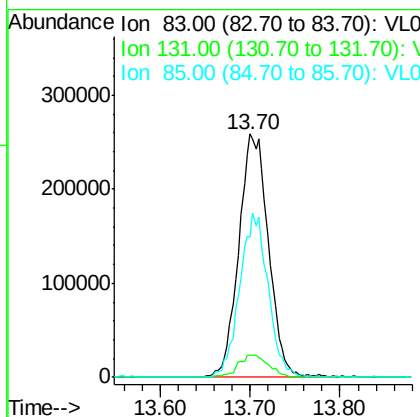
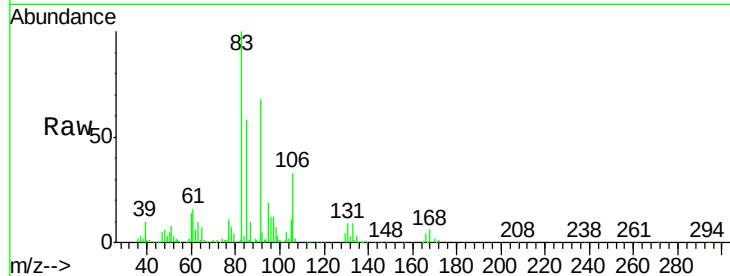
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 2.099 ppbv m  
 RT: 13.70 min Scan# 3394  
 Delta R.T. -0.01 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   |      |       |       |
| 131     | 0.0   | 4.6  | 13.8# |       |
| 85      | 0.0   | 32.6 | 97.7# |       |

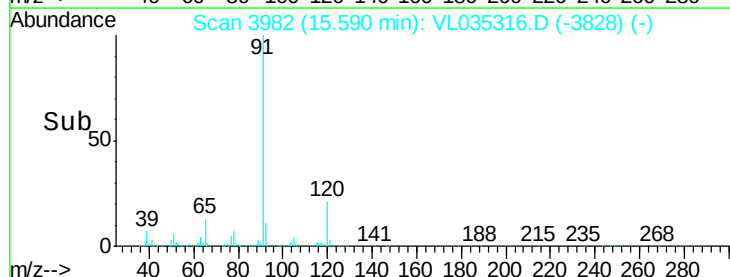
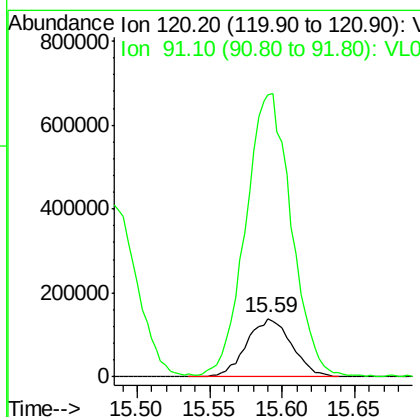
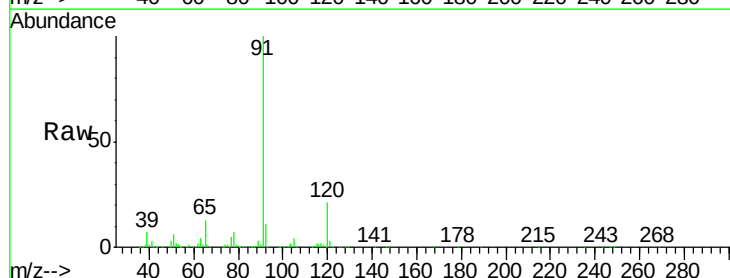
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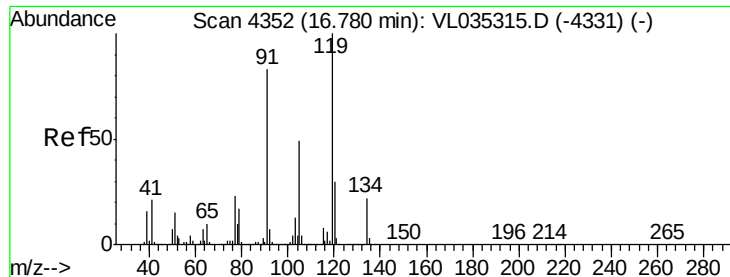
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#64  
 n-propylbenzene  
 Concen: 2.291 ppbv  
 RT: 15.59 min Scan# 3982  
 Delta R.T. -0.01 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 120     | 100   |       |       |       |
| 91      | 497.4 | 359.3 | 538.9 |       |





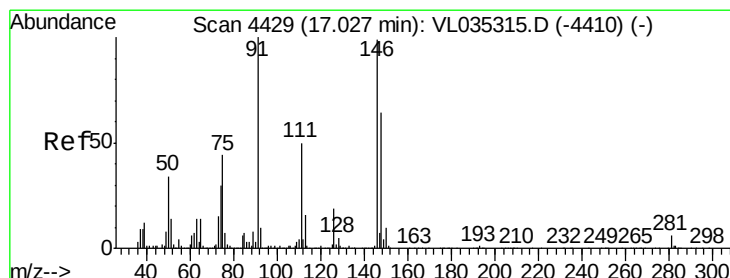
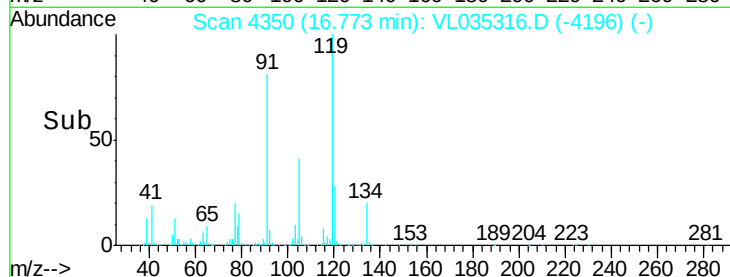
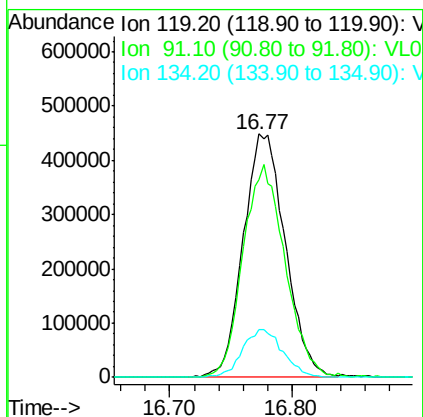
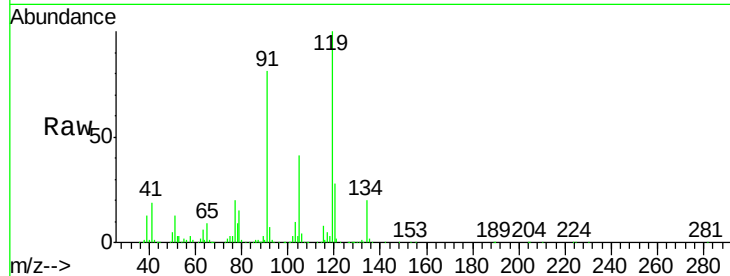
#65  
 tert-Butylbenzene  
 Concen: 2.404 ppbv  
 RT: 16.77 min Scan# 4350  
 Delta R.T. -0.01 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 87.6  | 67.8  | 101.8 |
| 134     | 18.8  | 16.1  | 24.1  |

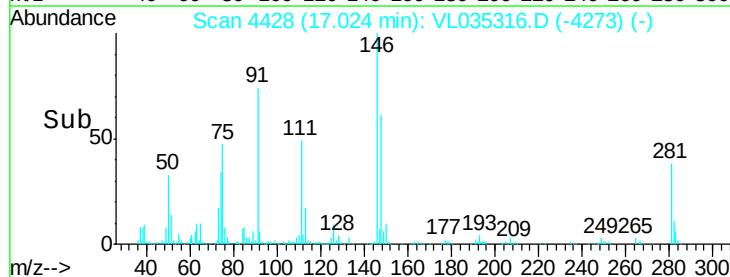
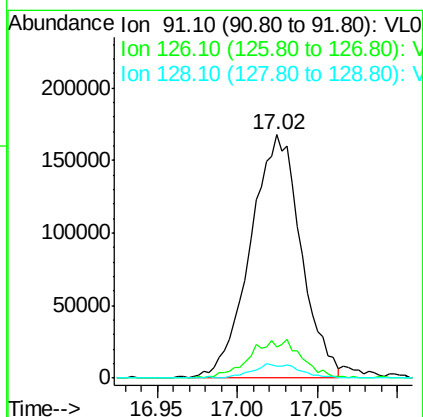
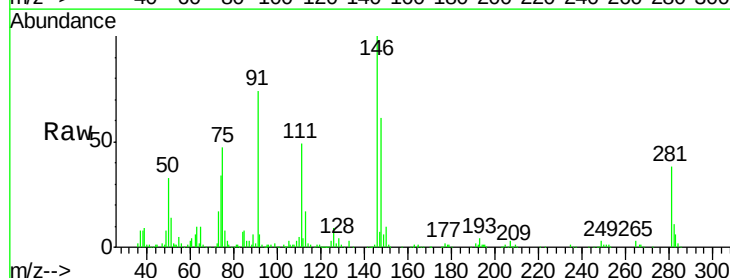
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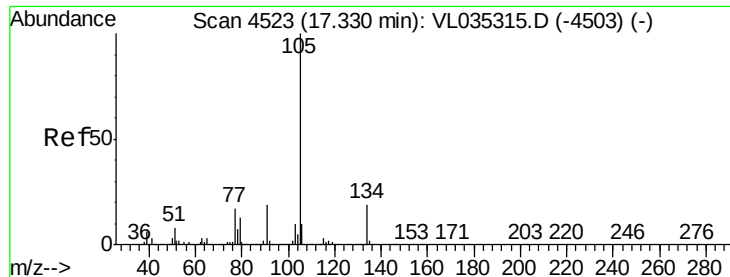
apatel  
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#66  
 Benzyl Chloride  
 Concen: 2.092 ppbv  
 RT: 17.02 min Scan# 4428  
 Delta R.T. -0.00 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 16.6  | 13.8  | 20.8  |
| 128     | 5.6   | 4.2   | 6.4   |





#67

sec-Butylbenzene

Concen: 2.352 ppbv

RT: 17.33 min Scan# 4523

Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1528387

Ion Ratio Lower Upper

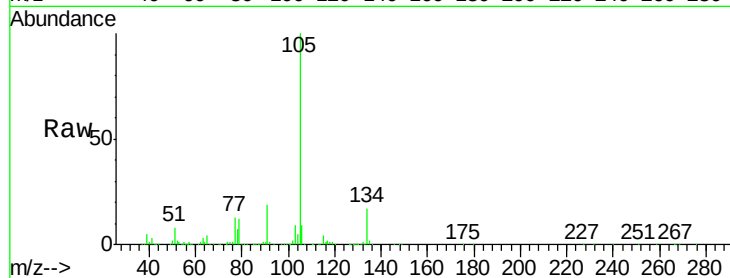
105 100

134 17.3 15.1 22.7

Manual Integrations  
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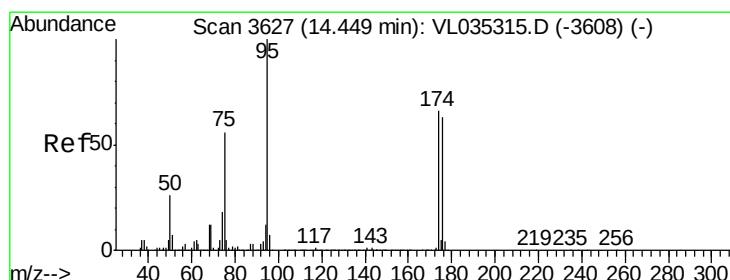
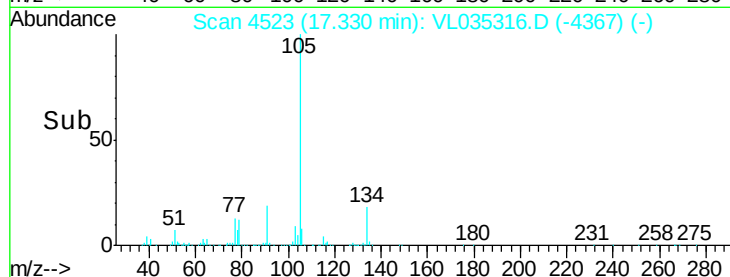
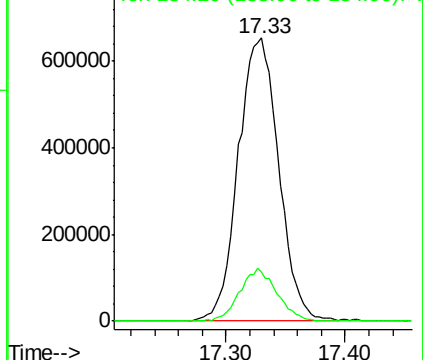
apatel

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.232 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

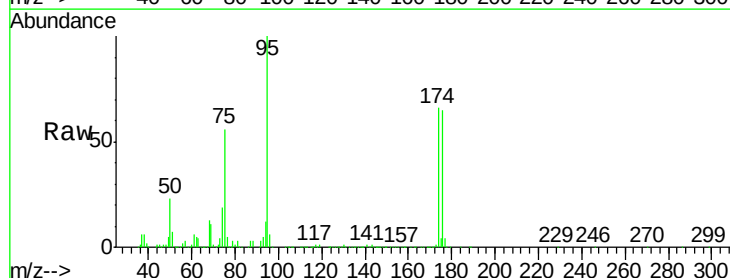
Tgt Ion: 95 Resp: 2741830

Ion Ratio Lower Upper

95 100

174 66.0 52.5 78.7

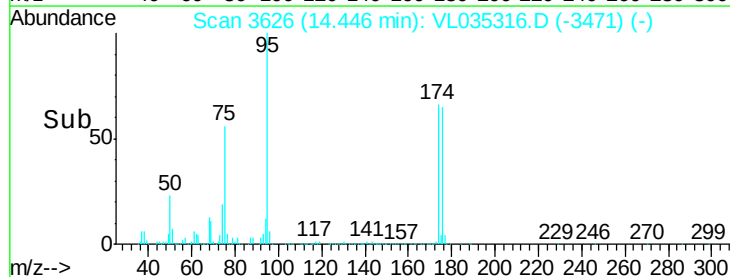
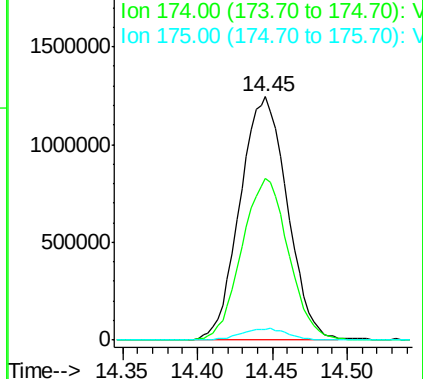
175 4.7 3.9 5.9

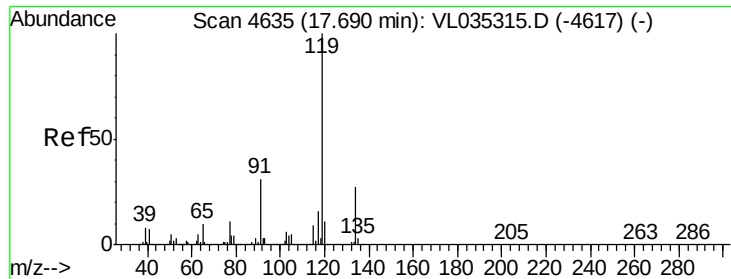


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





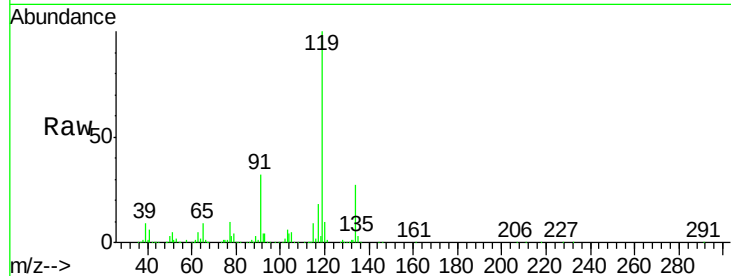
#69  
 p-Isopropyltoluene  
 Concen: 2.372 ppbv  
 RT: 17.68 min Scan# 4633  
 Delta R.T. -0.01 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

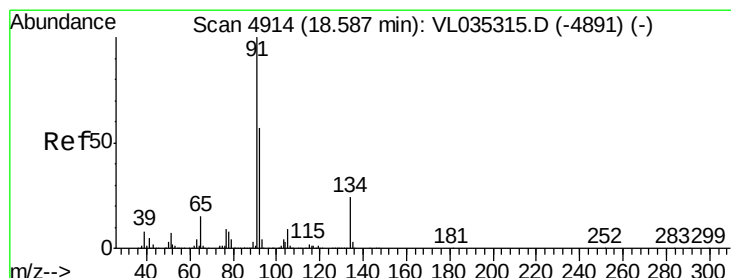
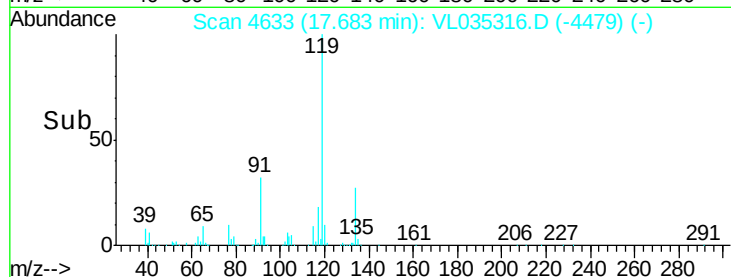
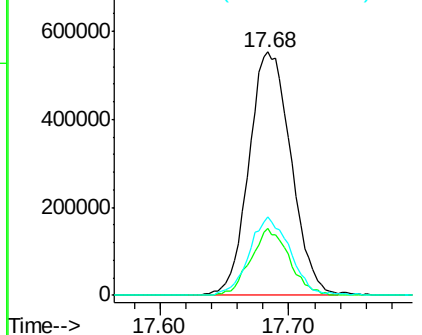
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.4  | 21.2  | 31.8  |
| 91      | 31.5  | 25.3  | 37.9  |

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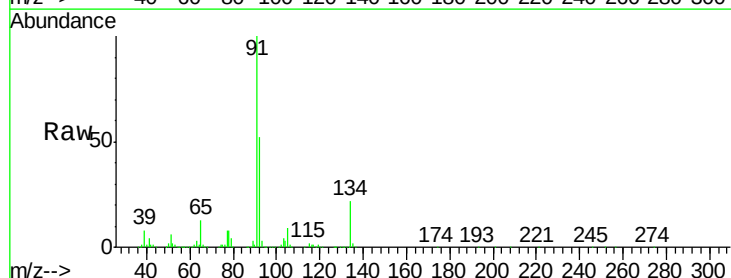


Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V

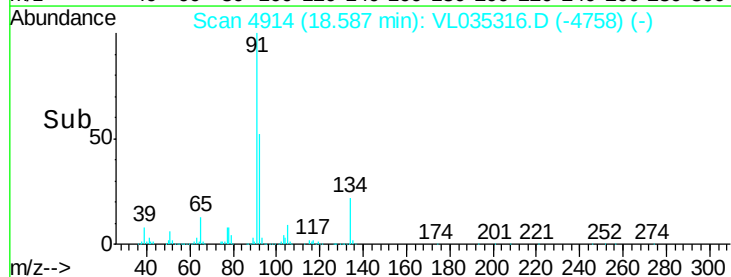
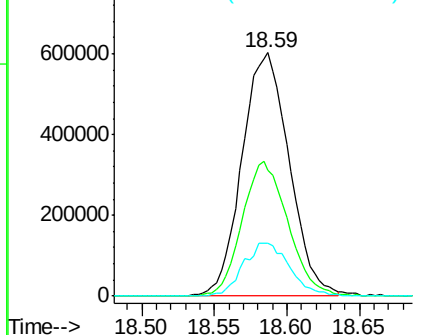


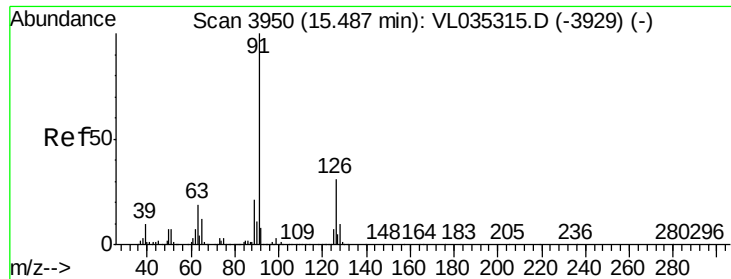
#70  
 n-Butylbenzene  
 Concen: 2.364 ppbv  
 RT: 18.59 min Scan# 4914  
 Delta R.T. 0.00 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.2  | 44.6  | 66.8  |
| 134     | 21.8  | 18.6  | 27.8  |



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





#71

2-Chlorotoluene

Concen: 2.420 ppbv

RT: 15.48 min Scan# 3948

Delta R.T. -0.01 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 896123

Ion Ratio Lower Upper

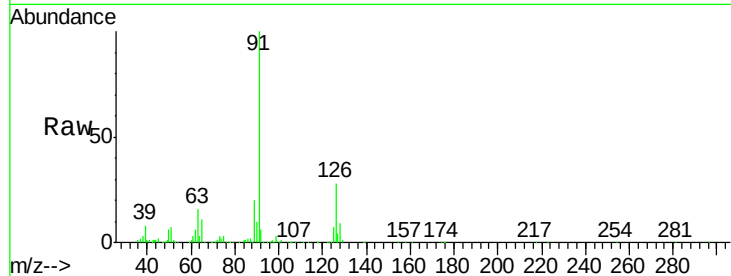
91 100

126 29.0 12.3 49.3

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

800000

600000

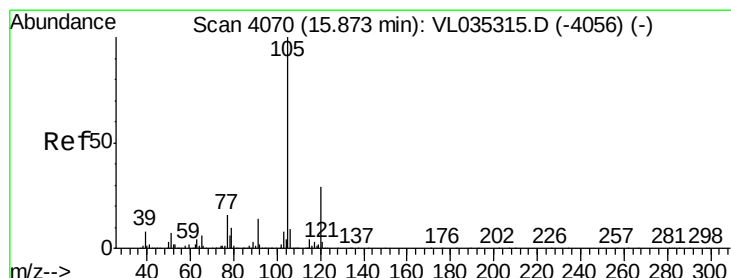
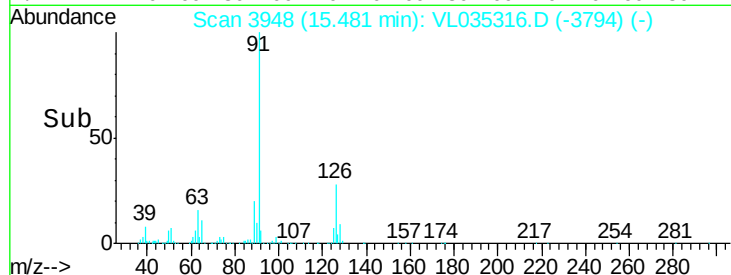
400000

200000

0

15.40 15.50

Time-->



#72

4-Ethyltoluene

Concen: 2.420 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. -0.01 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Tgt Ion: 105 Resp: 898406

Ion Ratio Lower Upper

105 100

120 28.7 23.6 35.4

91 13.8 11.3 16.9

77 14.0 11.8 17.6

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

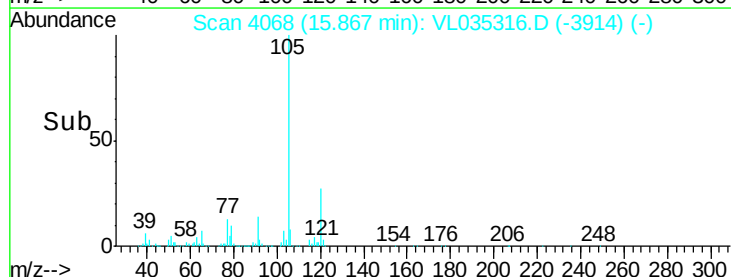
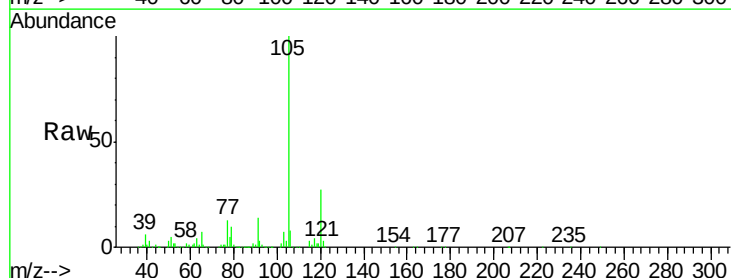
400000

200000

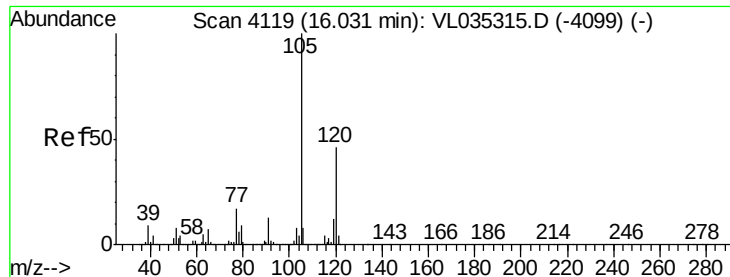
0

15.80 15.85 15.90

Time-->







#73

1,3,5-Trimethylbenzene

Concen: 2.415 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 874453

Ion Ratio Lower Upper

105 100

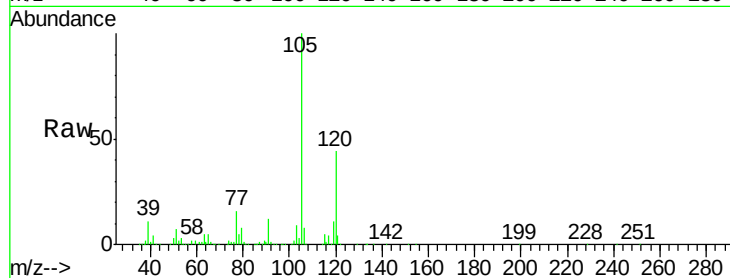
120 43.9 36.6 54.8

Manual Integrations

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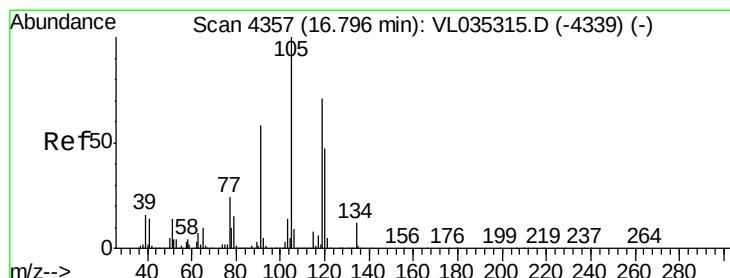
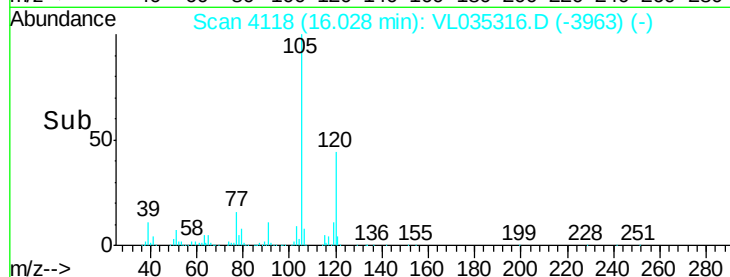
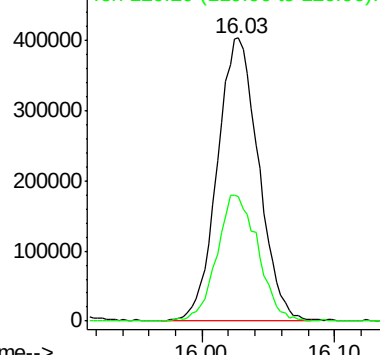
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 2.342 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Tgt Ion:105 Resp: 987297

Ion Ratio Lower Upper

105 100

120 44.7 38.0 57.0

91 42.2 47.9 71.9#

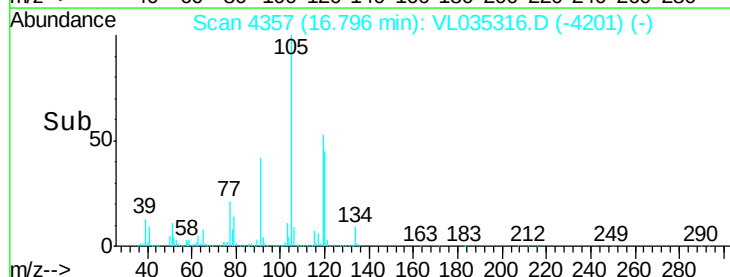
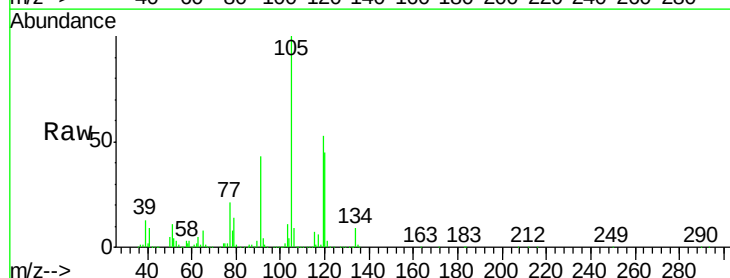
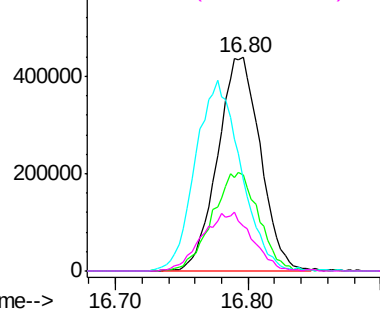
77 20.9 19.6 29.4

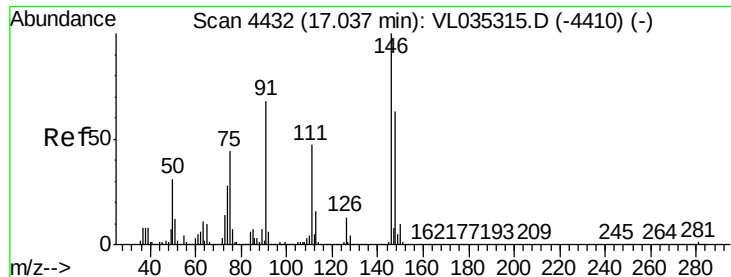
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





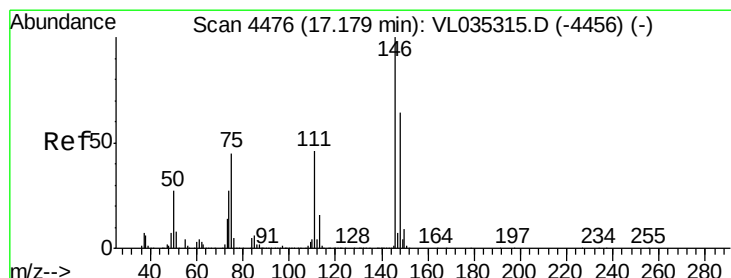
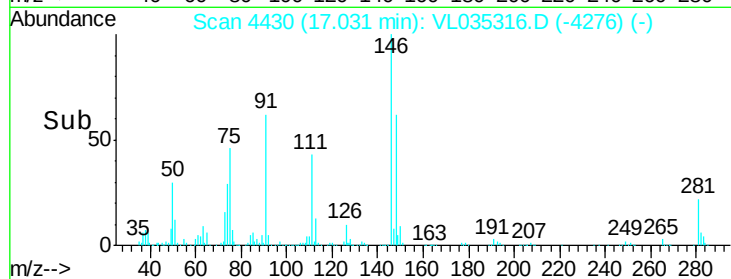
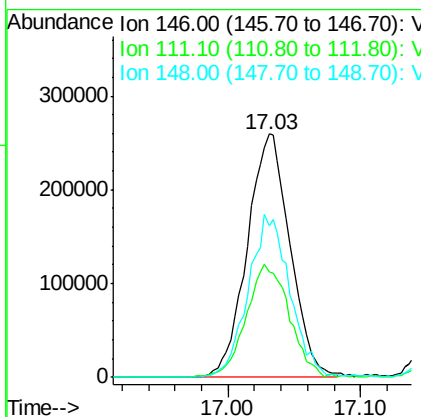
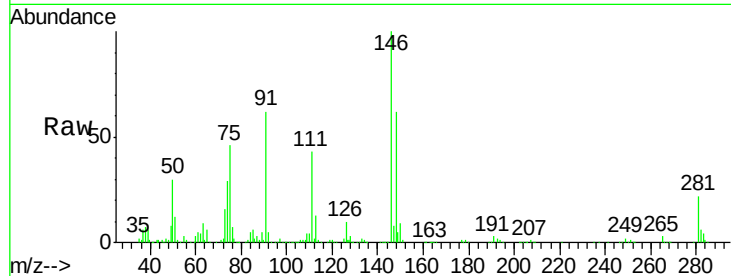
#75  
 1,3-Dichlorobenzene  
 Concen: 2.144 ppbv  
 RT: 17.03 min Scan# 4430  
 Delta R.T. -0.01 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 583463 |       |       |
| 111     | 46.9  | 24.2   | 72.6  |       |
| 148     | 65.3  | 32.4   | 97.0  |       |

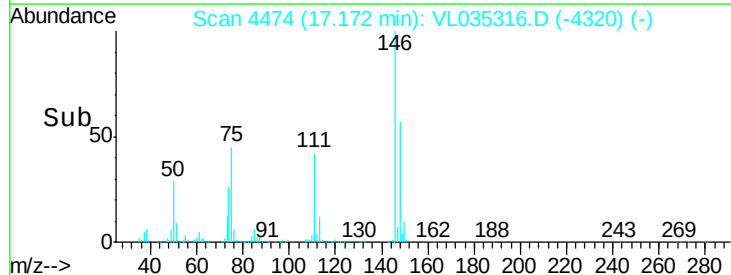
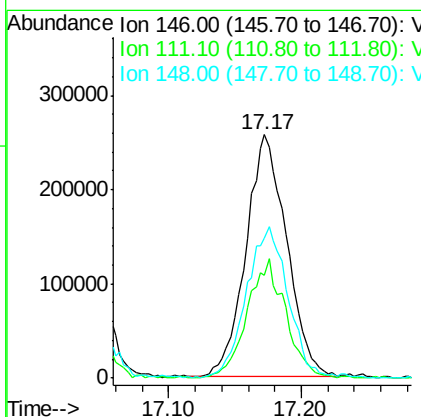
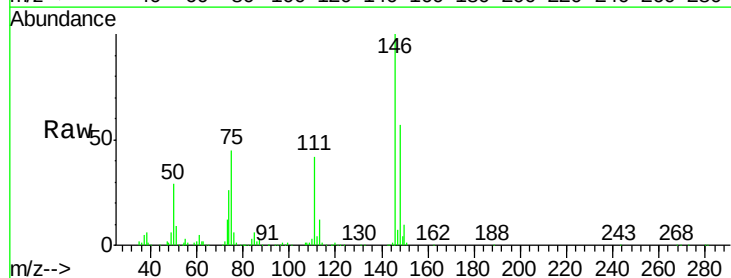
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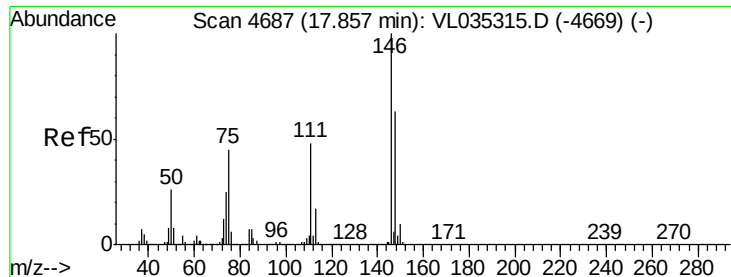
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#76  
 1,4-Dichlorobenzene  
 Concen: 2.236 ppbv  
 RT: 17.17 min Scan# 4474  
 Delta R.T. -0.01 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 550551 |       |       |
| 111     | 46.8  | 23.6   | 70.8  |       |
| 148     | 64.3  | 32.8   | 98.4  |       |





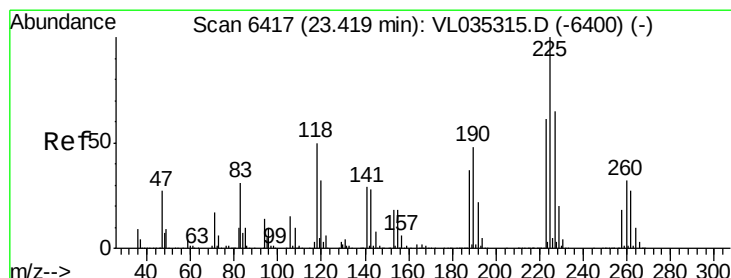
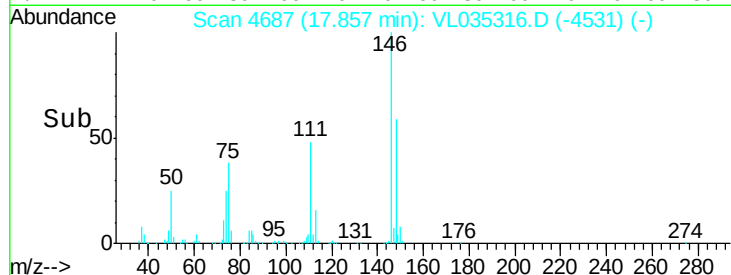
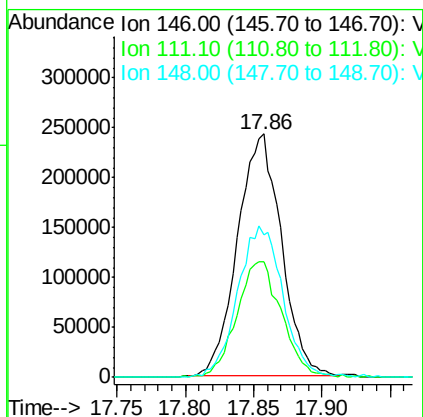
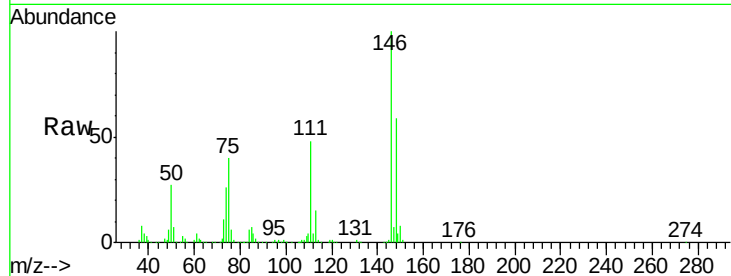
#77  
 1,2-Dichlorobenzene  
 Concen: 2.217 ppbv  
 RT: 17.86 min Scan# 4687  
 Delta R.T. 0.00 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 49.4  | 24.6  | 73.6  |
| 148     | 64.9  | 32.3  | 96.8  |

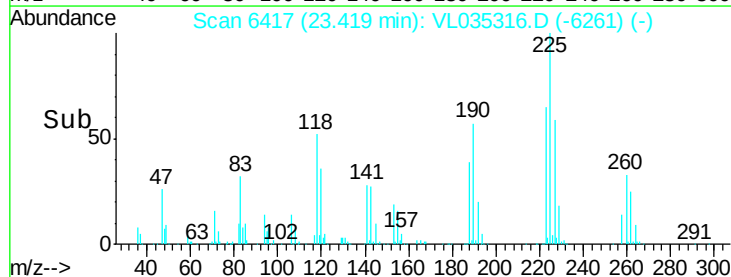
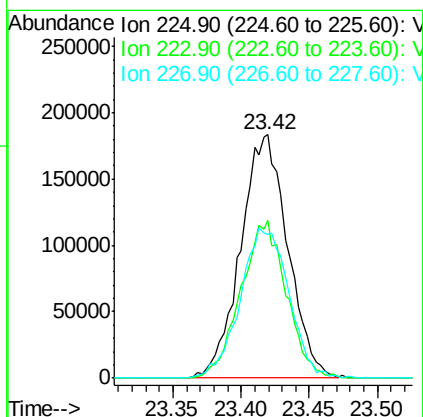
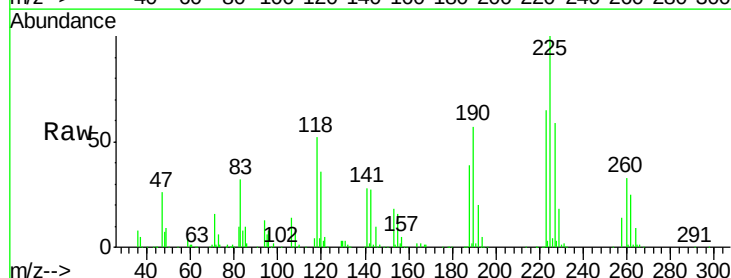
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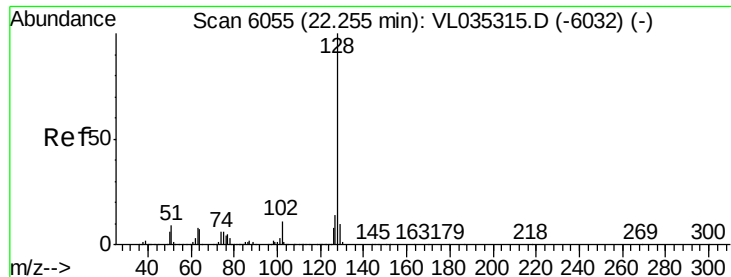
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 2.207 ppbv  
 RT: 23.42 min Scan# 6417  
 Delta R.T. 0.00 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.4  | 50.2  | 75.4  |
| 227     | 63.5  | 52.7  | 79.1  |





#79

Naphthalene

Concen: 2.369 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

Instrument :

MSVOA\_L

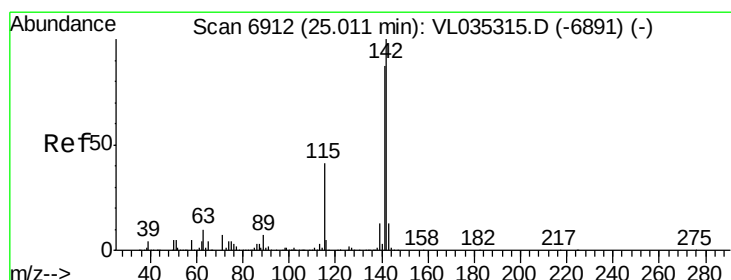
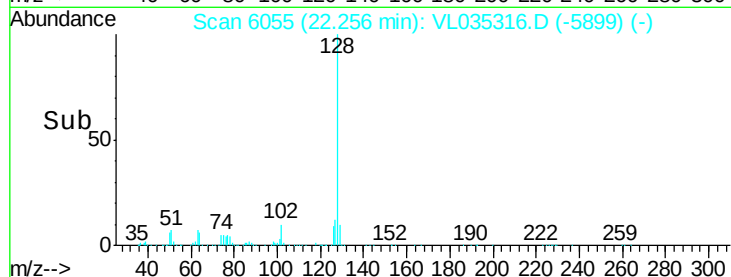
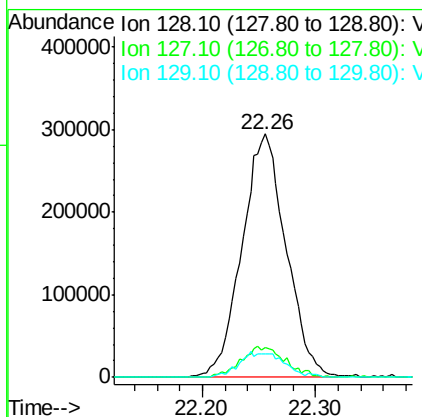
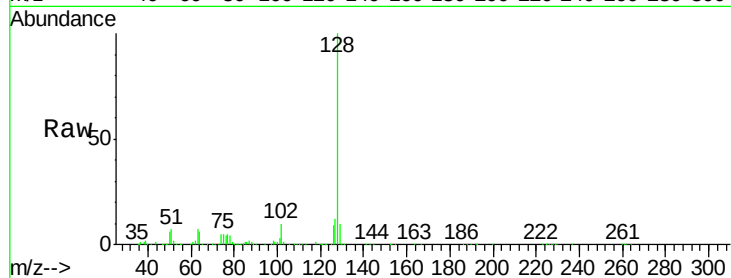
ClientSampleId :

VSTDIC002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 793941 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 12.2  | 10.8  | 16.2   |
| 129       | 9.8   | 8.4   | 12.6   |

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#80

Naphthalene, 2-methyl-

Concen: 1.997 ppbv

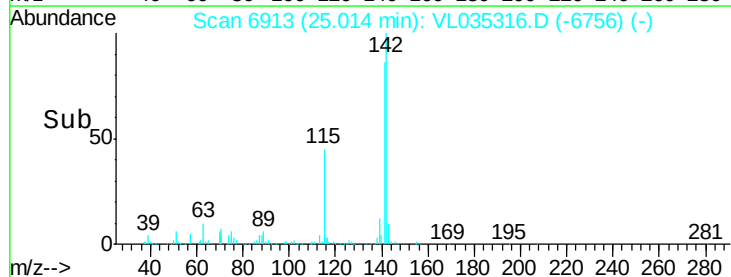
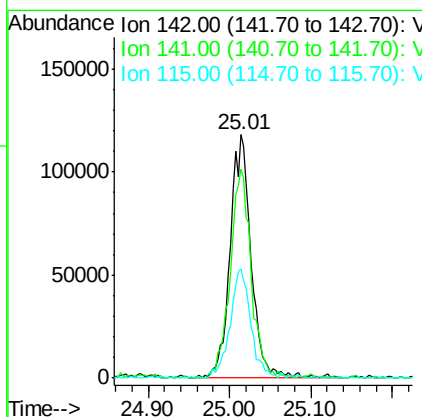
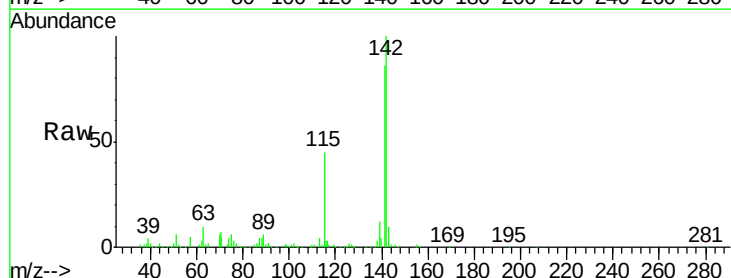
RT: 25.01 min Scan# 6913

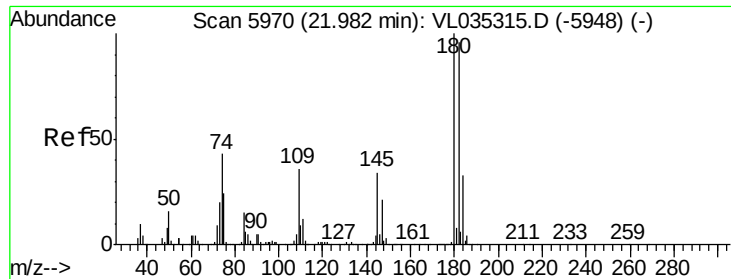
Delta R.T. 0.00 min

Lab File: VL035316.D

Acq: 3 Aug 2020 13:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 216653 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 85.7  | 68.3  | 102.5  |
| 115       | 45.5  | 35.0  | 52.4   |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 2.317 ppbv m  
 RT: 21.98 min Scan# 5968  
 Delta R.T. -0.01 min  
 Lab File: VL035316.D  
 Acq: 3 Aug 2020 13:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

| Tot Ion | Ratio | Resp   | Lower  | Upper |
|---------|-------|--------|--------|-------|
| 180     | 100   | 472828 |        |       |
| 182     | 0.0   | 76.9   | 115.3# |       |
| 184     | 0.0   | 25.0   | 37.6#  |       |

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