

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\  
 Data File : VL035625.D  
 Acq On : 15 Sep 2020 8:52  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

MMDadoda  
 9/17/2020 5:41:16 PM

Quant Time: Sep 15 10:21:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Sep 14 2020  
 QLast Update : Mon Sep 14 15:19:50 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 906737   | 10.00 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 3977130  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 4197713m | 10.00 | ppbv  | -0.02    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2965493  | 9.95     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.50% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.03 | 85   | 1598812  | 10.175 | ppbv  | 100    |
| 3) Chlorodifluoromethane       | 2.97 | 51   | 1012800  | 10.099 | ppbv  | 99     |
| 4) Chloromethane               | 3.12 | 50   | 535962   | 9.976  | ppbv  | 99     |
| 5) Vinyl Chloride              | 3.24 | 62   | 650449   | 9.820  | ppbv  | 99     |
| 6) Bromomethane                | 3.46 | 94   | 579372   | 10.413 | ppbv  | 99     |
| 7) Chloroethane                | 3.54 | 64   | 247771   | 10.580 | ppbv  | 99     |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85   | 1929228  | 10.138 | ppbv  | 96     |
| 9) Propene                     | 2.99 | 41   | 379903   | 9.826  | ppbv  | 100    |
| 10) Heptane                    | 8.11 | 43   | 1081666  | 10.416 | ppbv  | 100    |
| 11) Trichlorofluoromethane     | 3.93 | 101  | 2281478  | 9.956  | ppbv  | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101  | 1736310  | 10.039 | ppbv  | 94     |
| 13) Ethanol                    | 3.59 | 45   | 89569    | 9.344  | ppbv  | 95     |
| 14) Bromoethene                | 3.72 | 108  | 790675   | 10.621 | ppbv  | 99     |
| 15) Acetone                    | 3.83 | 43   | 897079   | 8.970  | ppbv  | 99     |
| 16) 1,3-Butadiene              | 3.31 | 39   | 391898   | 10.527 | ppbv  | 100    |
| 17) tert-Butyl alcohol         | 4.28 | 59   | 1284442  | 10.552 | ppbv  | 100    |
| 18) 1,1-Dichloroethene         | 4.27 | 96   | 813770   | 10.685 | ppbv  | 98     |
| 19) Isopropyl Alcohol          | 3.95 | 45   | 620122   | 10.394 | ppbv  | 99     |
| 20) Methylene Chloride         | 4.32 | 84   | 666225   | 8.945  | ppbv  | 98     |
| 21) Allyl Chloride             | 4.39 | 41   | 531515   | 11.344 | ppbv  | 98     |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96   | 851115   | 10.497 | ppbv  | 95     |
| 23) Vinyl Acetate              | 5.06 | 43   | 1346814  | 10.493 | ppbv  | 100    |
| 24) 1,1-Dichloroethane         | 5.00 | 63   | 1362690  | 10.316 | ppbv  | 99     |
| 25) Ethyl Acetate              | 5.66 | 43   | 1802165  | 10.201 | ppbv  | 100    |
| 26) Hexane                     | 5.67 | 57   | 1031131  | 10.301 | ppbv  | 99     |
| 27) Carbon Disulfide           | 4.53 | 76   | 1713852  | 11.931 | ppbv  | 100    |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1872631  | 10.734 | ppbv  | 100    |
| 29) Chloroform                 | 5.74 | 83   | 2124727  | 10.418 | ppbv  | 99     |
| 30) Cyclohexane                | 7.11 | 84   | 1183555  | 11.037 | ppbv  | 100    |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61   | 1241751  | 12.091 | ppbv  | 99     |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97   | 2092312  | 10.575 | ppbv  | 99     |
| 34) 2-Butanone                 | 5.23 | 43   | 1241403  | 10.518 | ppbv  | 100    |
| 35) Carbon Tetrachloride       | 7.00 | 117  | 2179066  | 10.901 | ppbv  | 99     |
| 36) Benzene                    | 6.88 | 78   | 2719906  | 10.565 | ppbv  | 100    |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 1301306  | 10.602 | ppbv  | 99     |
| 38) Trichloroethene            | 7.82 | 130  | 1922981  | 12.859 | ppbv  | 97     |
| 39) 1,2-Dichloropropane        | 7.60 | 63   | 899565   | 10.344 | ppbv  | 98     |
| 40) 1,4-Dioxane                | 7.82 | 88   | 486036   | 11.187 | ppbv  | 97     |
| 41) Tetrahydrofuran            | 6.03 | 42   | 702749   | 11.228 | ppbv  | 98     |
| 42) Bromodichloromethane       | 7.78 | 83   | 2233269  | 11.252 | ppbv  | 100    |
| 43) Methyl Methacrylate        | 8.00 | 69   | 1122351  | 11.274 | ppbv  | 99     |

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

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

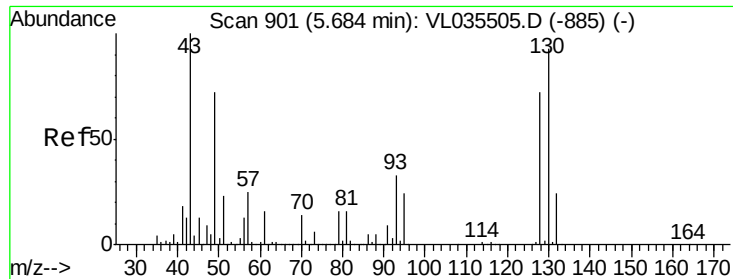
MMDadoda  
 9/17/2020 5:41:16 PM

Quant Time: Sep 15 10:21:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Sep 14 2020  
 QLast Update : Mon Sep 14 15:19:50 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 3480721  | 10.276 | ppbv  | 100      |
| 45) t-1,3-Dichloropropene     | 9.27  | 75   | 1264326  | 12.537 | ppbv  | 99       |
| 46) cis-1,3-Dichloropropene   | 8.69  | 75   | 1504631  | 12.017 | ppbv  | 97       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1336753  | 10.417 | ppbv  | 98       |
| 48) Dibromochloromethane      | 10.30 | 129  | 2283679  | 11.307 | ppbv  | 100      |
| 49) Bromoform                 | 13.03 | 173  | 2077573  | 11.350 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 1823314  | 10.668 | ppbv  | 99       |
| 51) 2-Hexanone                | 10.12 | 43   | 1523207  | 10.865 | ppbv  | 99       |
| 52) Tetrachloroethene         | 11.21 | 164  | 4087616  | 27.179 | ppbv  | 91       |
| 53) Toluene                   | 9.80  | 91   | 3475938  | 10.737 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 2143895  | 10.573 | ppbv  | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1776126  | 10.399 | ppbv  | 96       |
| 57) Chlorobenzene             | 12.14 | 112  | 2926787  | 9.474  | ppbv  | 98       |
| 58) Ethyl Benzene             | 12.70 | 91   | 4522403  | 10.448 | ppbv  | 99       |
| 59) m/p-Xylene                | 12.99 | 91   | 7621859m | 21.072 | ppbv  |          |
| 60) o-Xylene                  | 13.69 | 91   | 3696331  | 10.147 | ppbv  | 99       |
| 61) Styrene                   | 13.52 | 104  | 2998235  | 10.761 | ppbv  | 100      |
| 62) Isopropylbenzene          | 14.66 | 105  | 5726074  | 9.785  | ppbv  | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 2643125  | 9.358  | ppbv  | 99       |
| 64) n-propylbenzene           | 15.56 | 120  | 1764023  | 9.878  | ppbv  | 91       |
| 65) tert-Butylbenzene         | 16.74 | 119  | 5363191  | 9.859  | ppbv  | 98       |
| 66) Benzyl Chloride           | 16.99 | 91   | 1684677  | 12.461 | ppbv  | 97       |
| 67) sec-Butylbenzene          | 17.29 | 105  | 7081211  | 9.771  | ppbv  | 97       |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 6058303  | 9.530  | ppbv  | 98       |
| 70) n-Butylbenzene            | 18.55 | 91   | 5866539  | 9.580  | ppbv  | 97       |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 4325189  | 10.149 | ppbv  | 97       |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 4656151  | 10.054 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 4312660  | 10.068 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.76 | 105  | 4484558  | 9.533  | ppbv  | 96       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 3078993  | 8.836  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 3092863  | 9.000  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 3029283  | 8.973  | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 1692129  | 7.851  | ppbv  | 100      |
| 79) Naphthalene               | 22.20 | 128  | 4800750  | 9.197  | ppbv  | 98       |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 1432033  | 8.038  | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 2567118  | 8.213  | ppbv  | 100      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

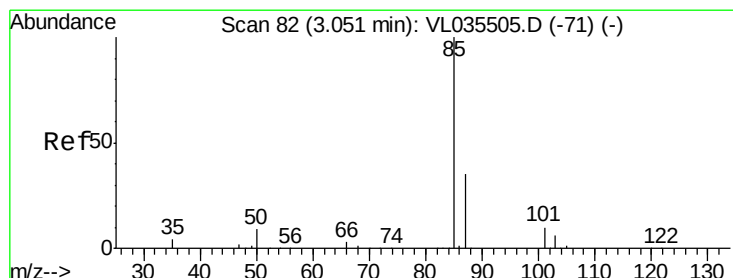
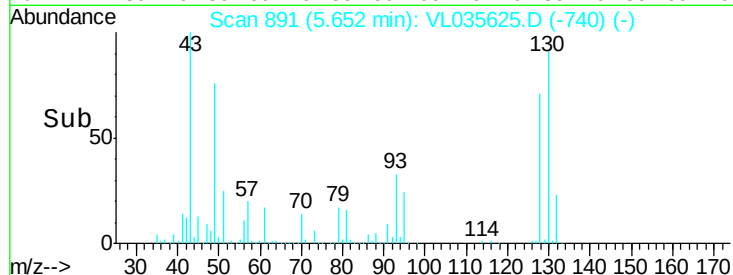
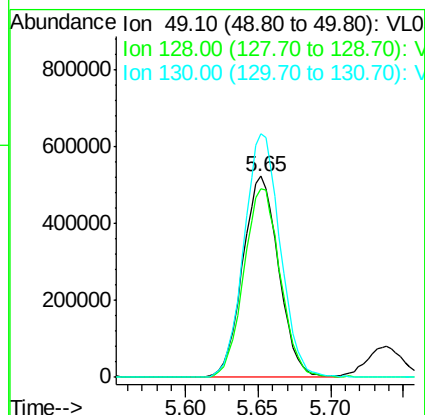
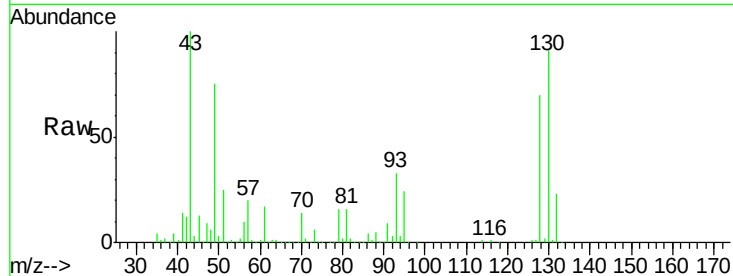
ClientSampleId :

VSTDCCC010EC

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 49    | Resp: | 906737 |
| Ion      | Ratio | Lower | Upper  |
| 49       | 100   |       |        |
| 128      | 94.9  | 50.0  | 150.1  |
| 130      | 122.3 | 64.4  | 193.2  |

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 10.175 ppbv

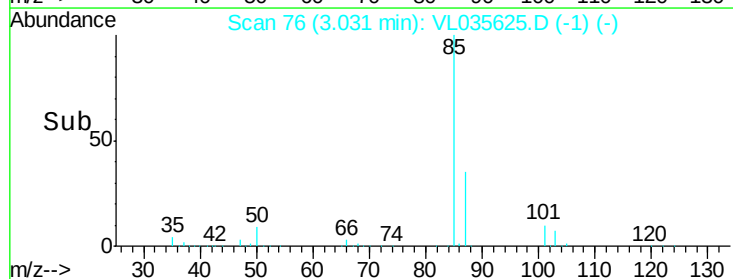
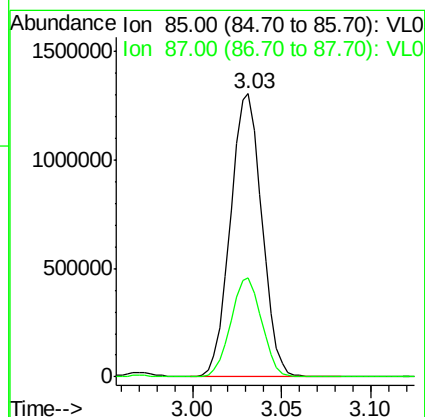
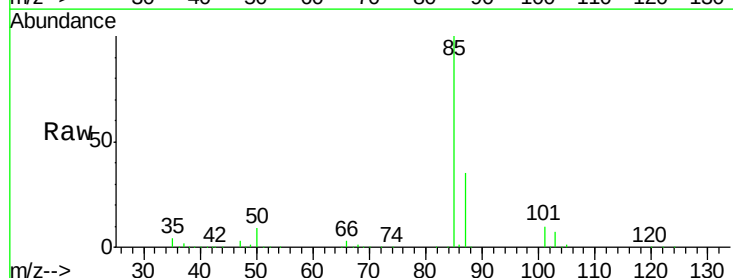
RT: 3.03 min Scan# 76

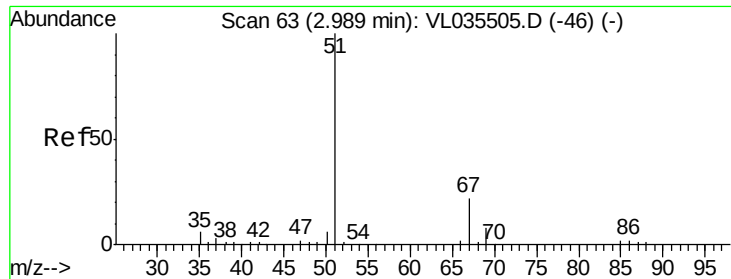
Delta R.T. -0.00 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 85    | Resp: | 1598812 |
| Ion      | Ratio | Lower | Upper   |
| 85       | 100   |       |         |
| 87       | 35.0  | 28.0  | 42.0    |





#3

Chlorodifluoromethane

Concen: 10.099 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Tot Ion: 51 Resp: 1012800

Ion Ratio Lower Upper

51 100

67 22.7 17.8 26.8

Instrument :

MSVOA\_L

ClientSampleId :

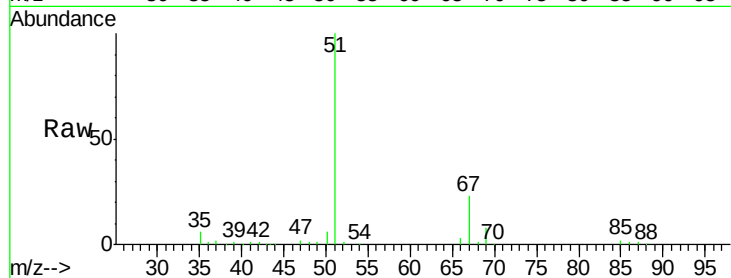
VSTDCCC010EC

Manual Integrations

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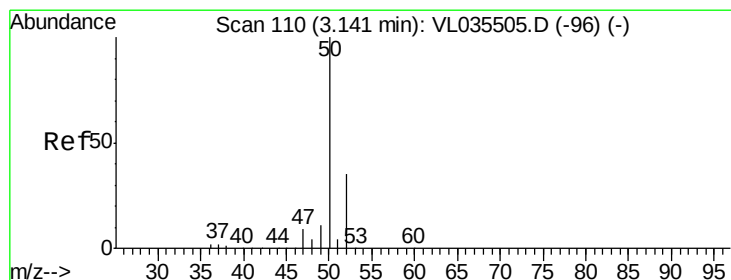
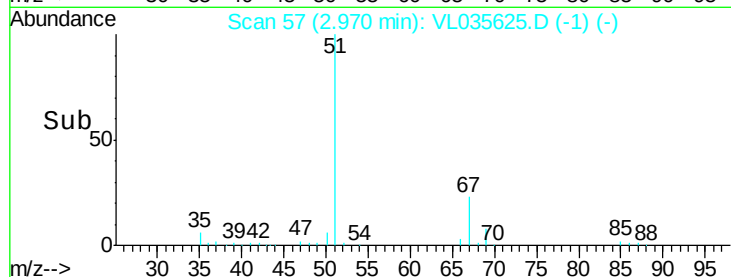
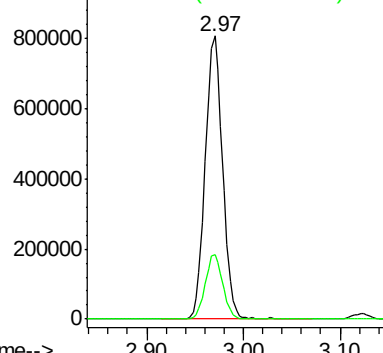
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.976 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL035625.D

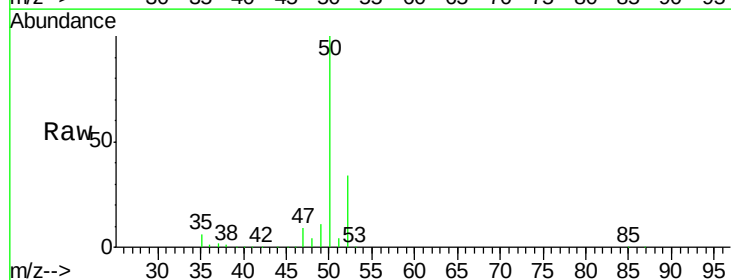
Acq: 15 Sep 2020 8:52

Tgt Ion: 50 Resp: 535962

Ion Ratio Lower Upper

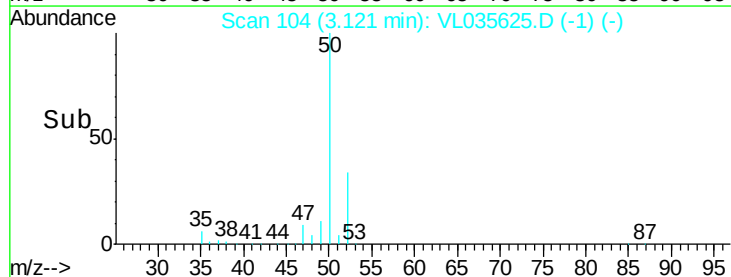
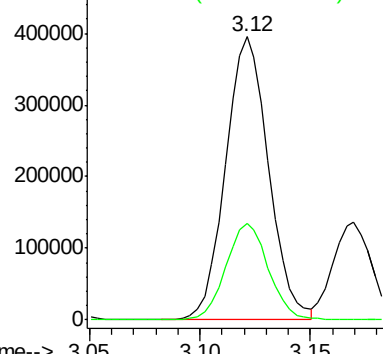
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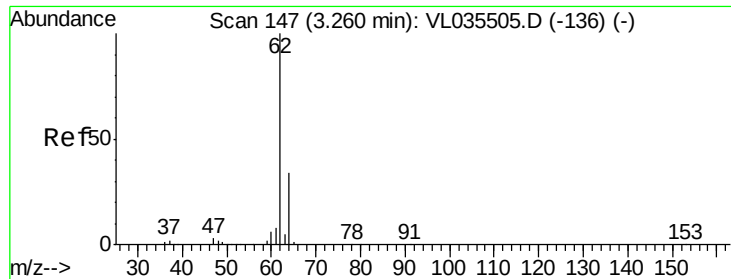
52 34.2 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.820 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 650449

Ion Ratio Lower Upper

62 100

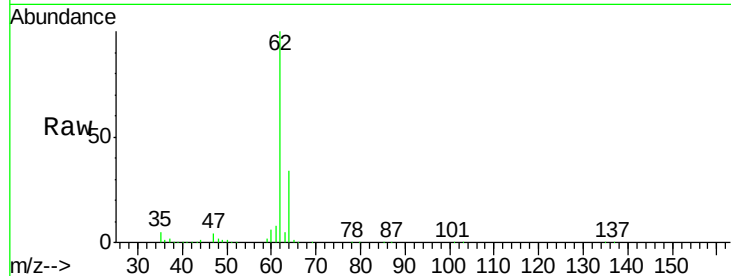
64 34.0 27.4 41.2

Manual Integrations

APPROVED

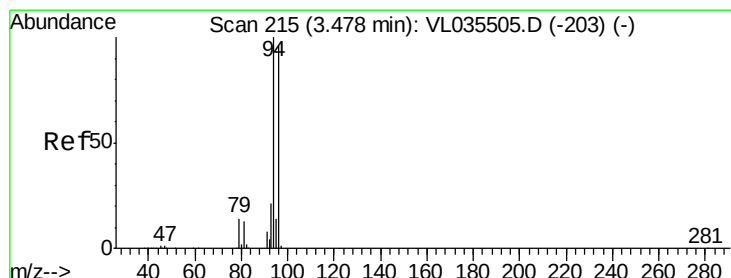
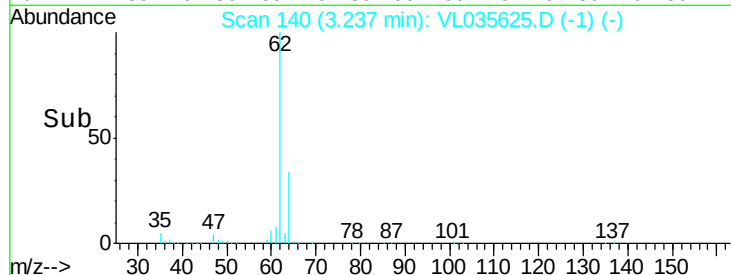
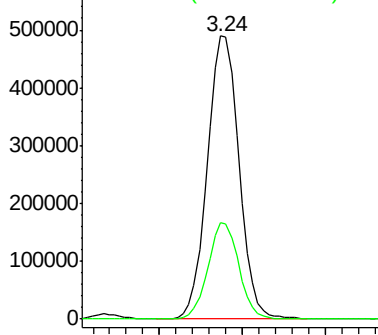
MMDadoda

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.413 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.01 min

Lab File: VL035625.D

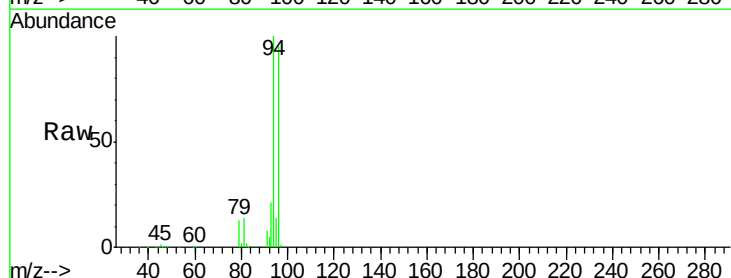
Acq: 15 Sep 2020 8:52

Tgt Ion: 94 Resp: 579372

Ion Ratio Lower Upper

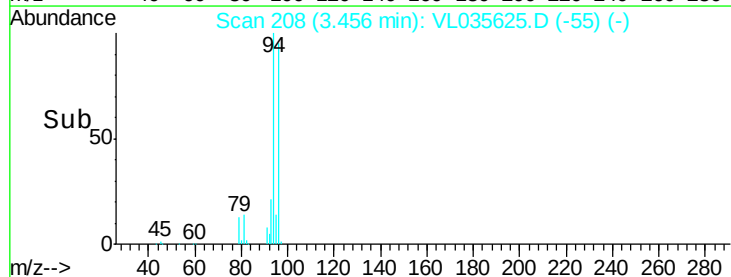
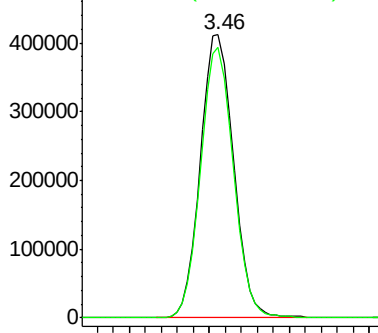
94 100

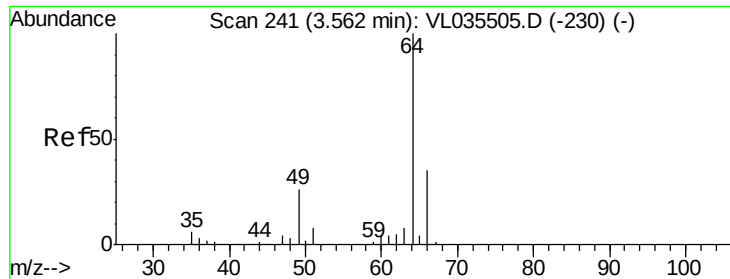
96 95.5 77.1 115.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.580 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 247771

Ion Ratio Lower Upper

64 100

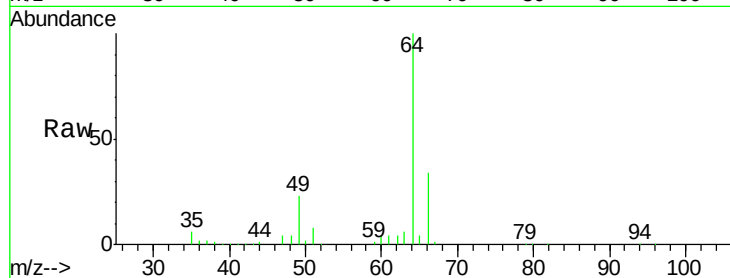
66 34.3 27.7 41.5

Manual Integrations

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9/17/2020 5:41:16 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.54

200000

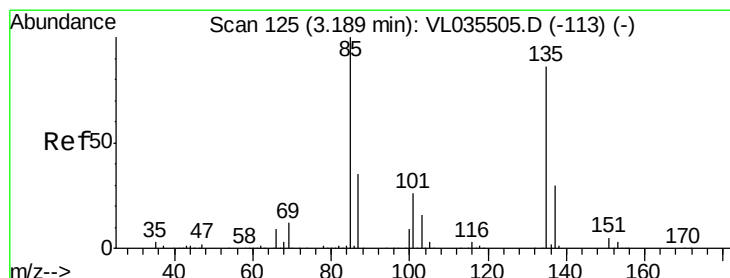
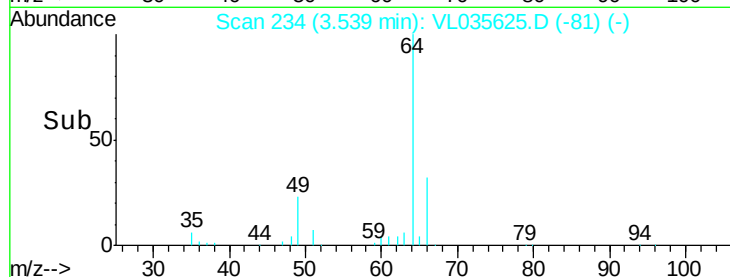
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.138 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL035625.D

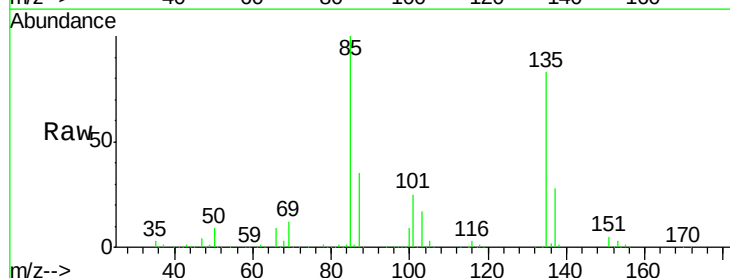
Acq: 15 Sep 2020 8:52

Tgt Ion: 85 Resp: 1929228

Ion Ratio Lower Upper

85 100

135 83.9 70.4 105.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.17

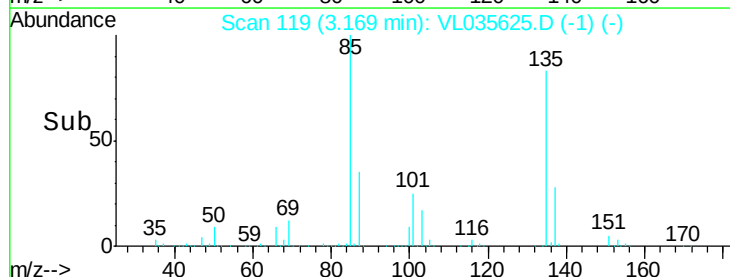
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1000000

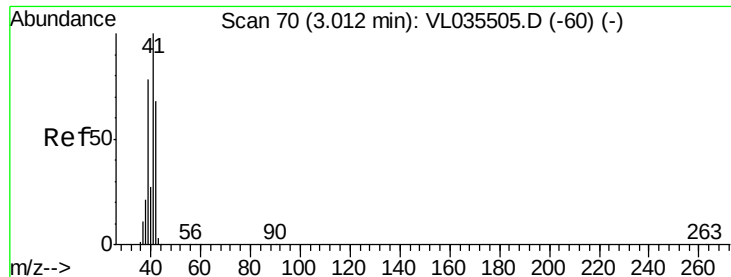
500000

0

Time-->







#9

Propene

Concen: 9.826 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 379903

Ion Ratio Lower Upper

41 100

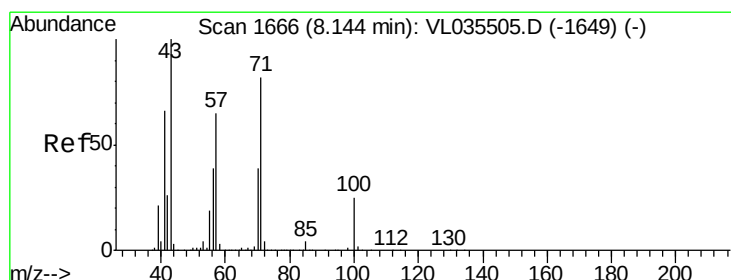
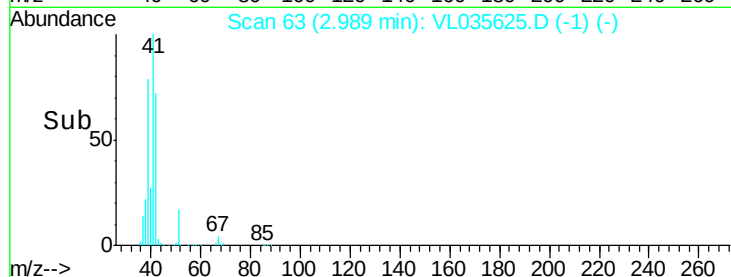
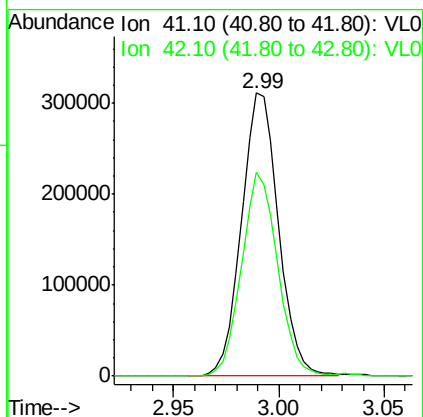
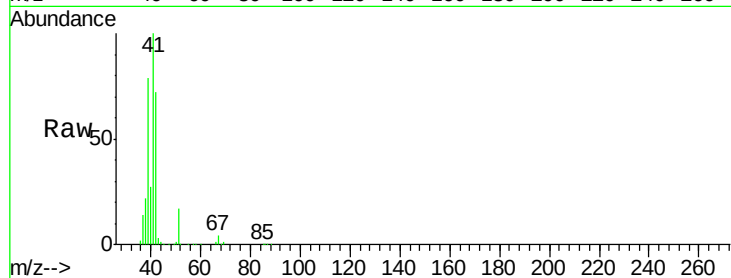
42 70.7 56.3 84.5

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#10

Heptane

Concen: 10.416 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. -0.02 min

Lab File: VL035625.D

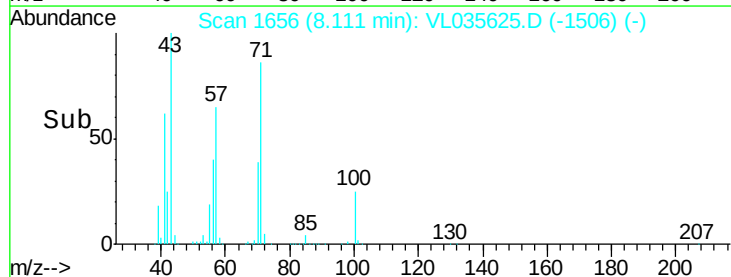
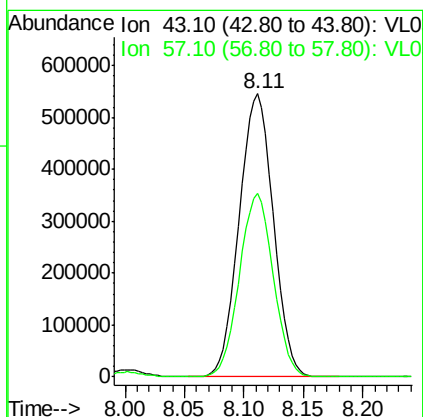
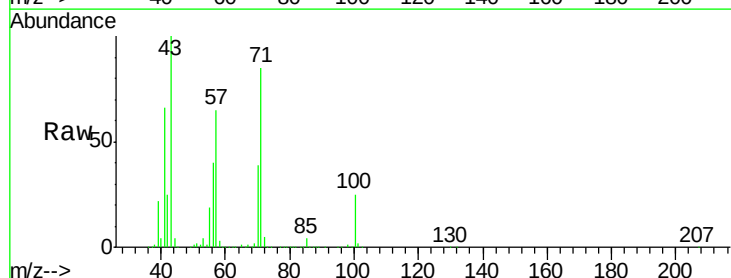
Acq: 15 Sep 2020 8:52

Tgt Ion: 43 Resp: 1081666

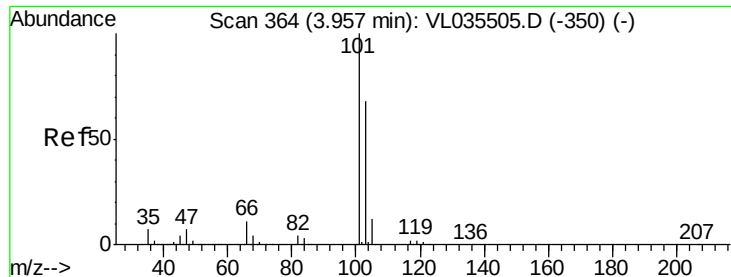
Ion Ratio Lower Upper

43 100

57 64.3 51.4 77.0







#11

Trichlorofluoromethane

Concen: 9.956 ppbv

RT: 3.93 min Scan# 356

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 2281478

Ion Ratio Lower Upper

101 100

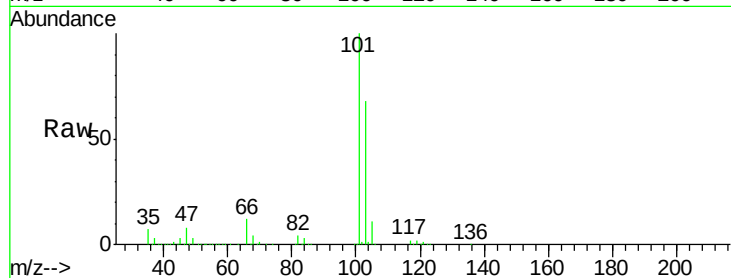
103 67.8 54.5 81.7

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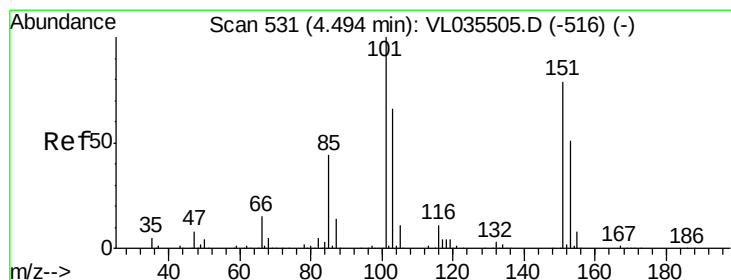
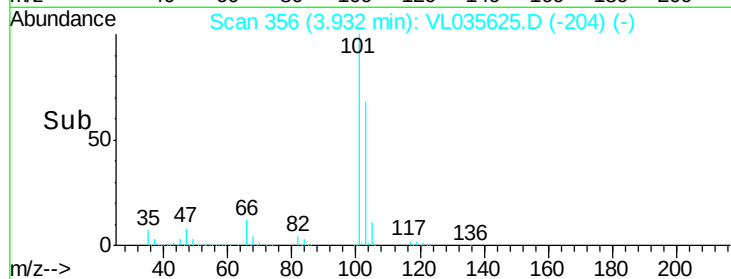
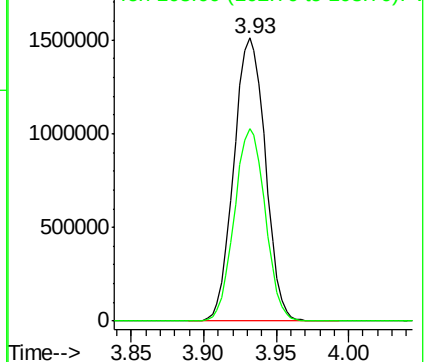
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.039 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.01 min

Lab File: VL035625.D

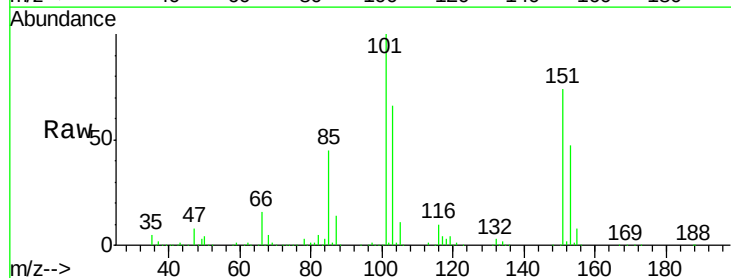
Acq: 15 Sep 2020 8:52

Tgt Ion:101 Resp: 1736310

Ion Ratio Lower Upper

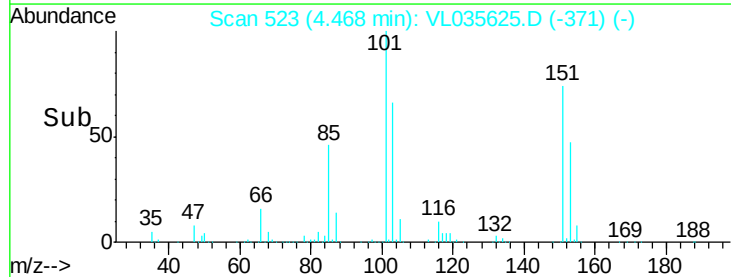
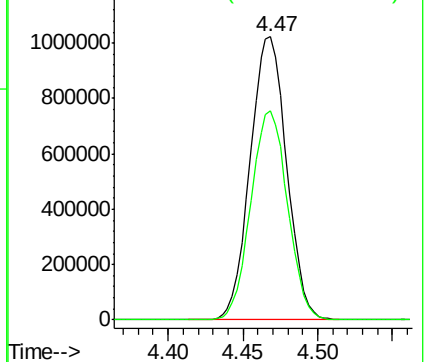
101 100

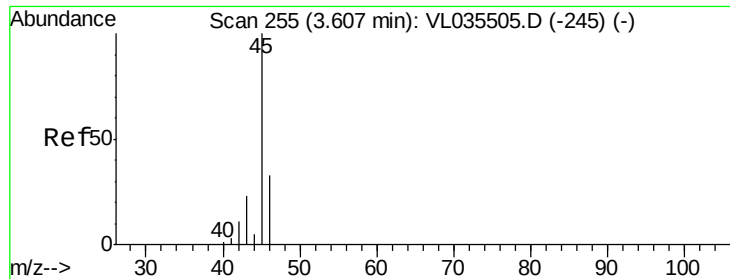
151 74.5 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





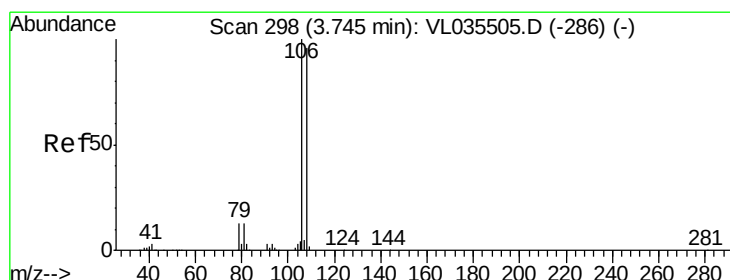
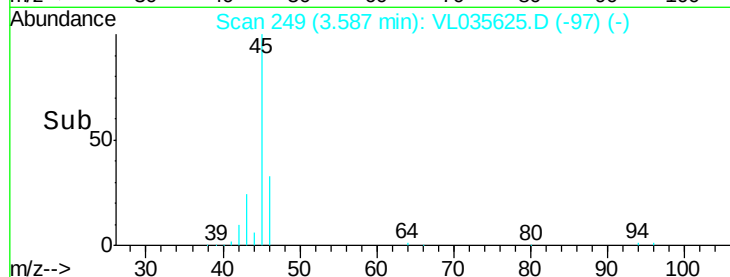
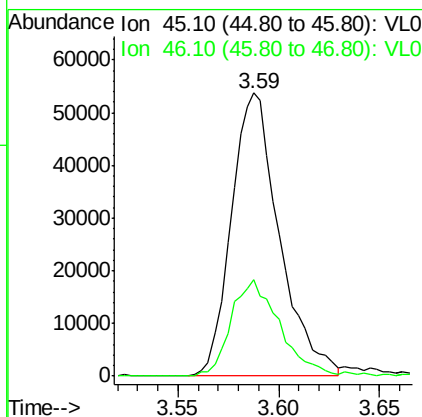
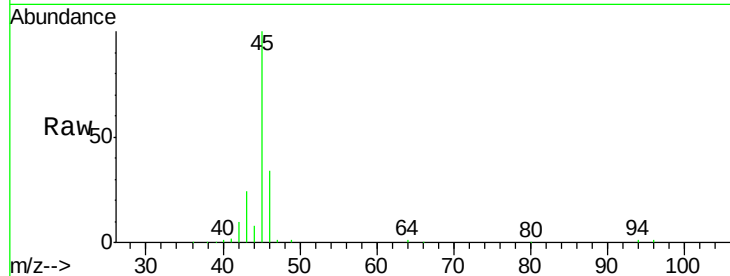
#13  
Ethanol  
Concen: 9.344 ppbv  
RT: 3.59 min Scan# 249  
Delta R.T. -0.01 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | 45  | 46 | Ratio | 100 | 34.9 | Resp  | Lower | Upper |
|---------|-----|----|-------|-----|------|-------|-------|-------|
| 45      | 100 |    |       |     |      | 89569 | 15.2  | 60.6  |

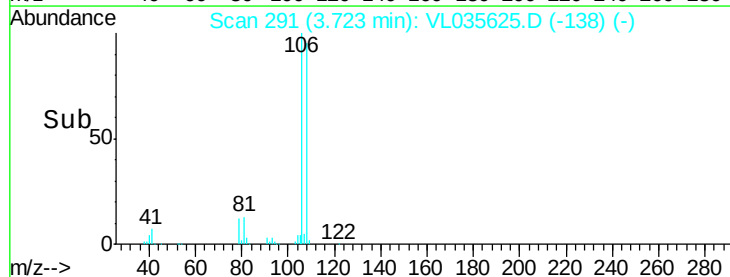
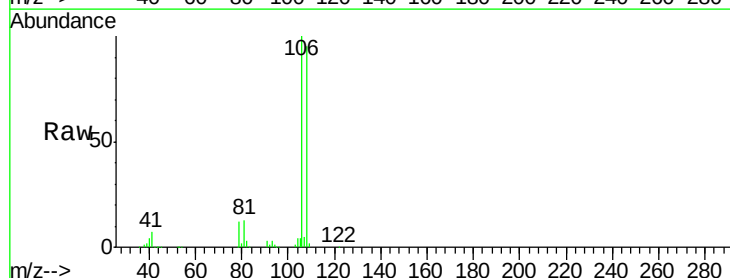
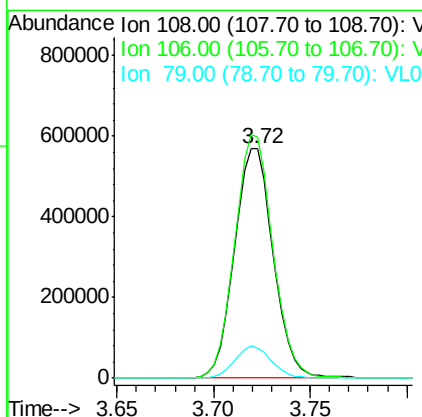
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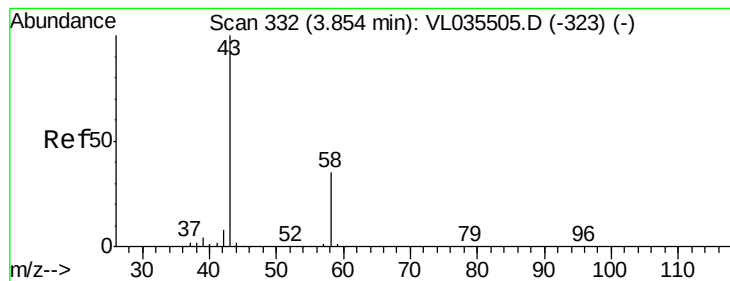
MMDadoda  
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#14  
Bromoethene  
Concen: 10.621 ppbv  
RT: 3.72 min Scan# 291  
Delta R.T. -0.01 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

| Tgt Ion | 108 | 106 | 79 | Ratio | 100 | 105.1 | 13.7 | Resp   | Lower | Upper |
|---------|-----|-----|----|-------|-----|-------|------|--------|-------|-------|
| 108     | 100 |     |    |       |     |       |      | 790675 | 84.9  | 127.3 |





#15

Acetone

Concen: 8.970 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleID :

VSTDCCC010EC

Tot Ion: 43 Resp: 897079

Ion Ratio Lower Upper

43 100

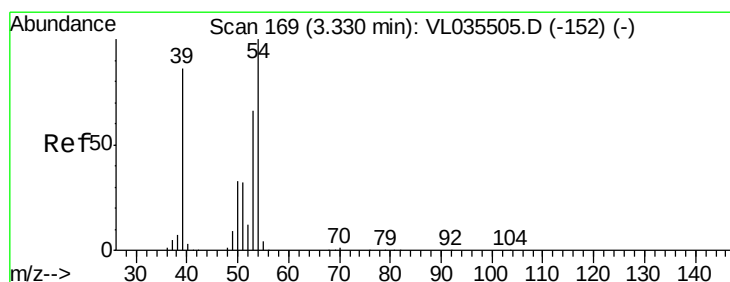
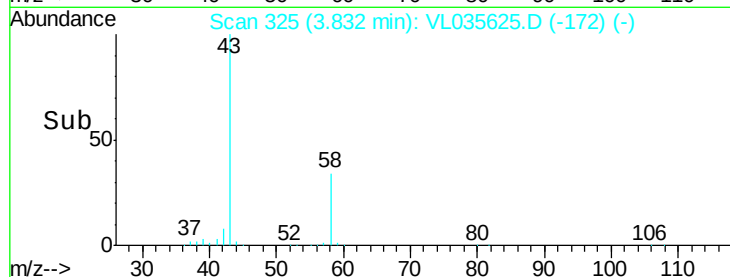
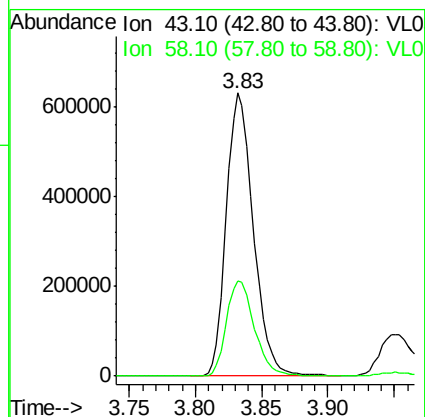
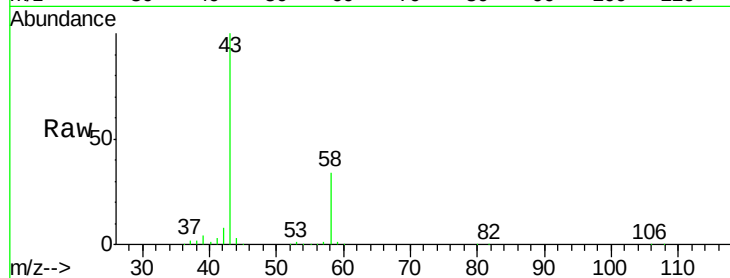
58 34.7 28.4 42.6

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#16

1,3-Butadiene

Concen: 10.527 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.01 min

Lab File: VL035625.D

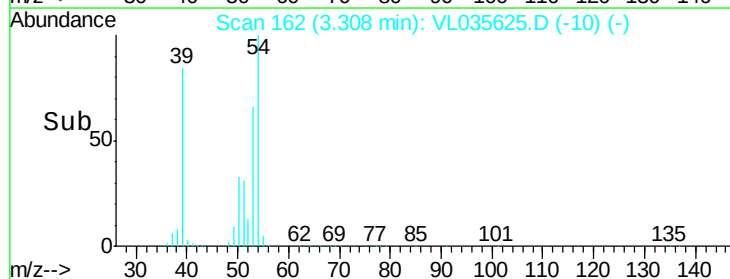
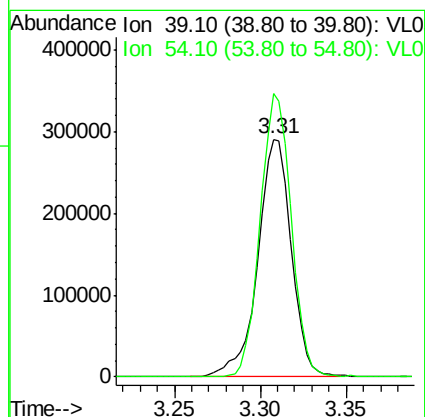
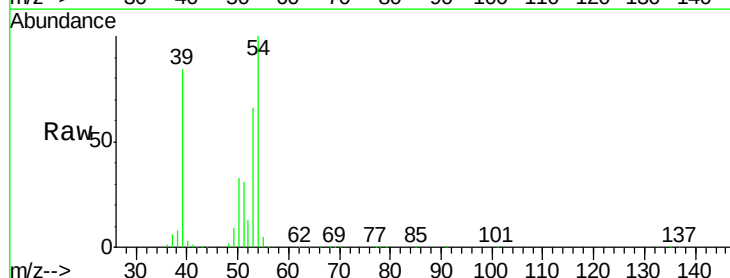
Acq: 15 Sep 2020 8:52

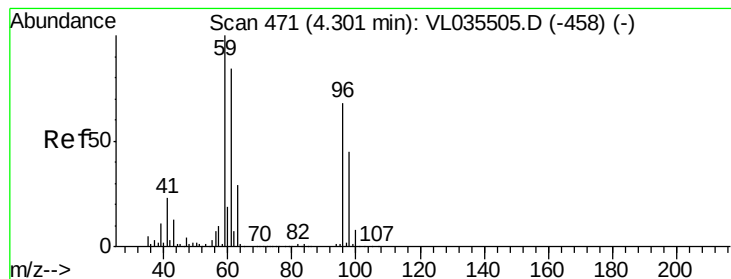
Tgt Ion: 39 Resp: 391898

Ion Ratio Lower Upper

39 100

54 111.0 88.4 132.6





#17

tert-Butyl alcohol

Concen: 10.552 ppbv

RT: 4.28 min Scan# 463

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 59 Resp: 1284442

Ion Ratio Lower Upper

59 100

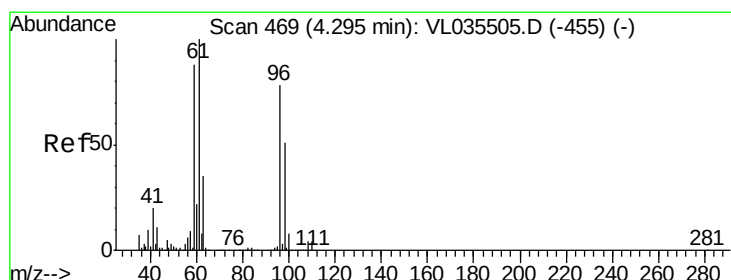
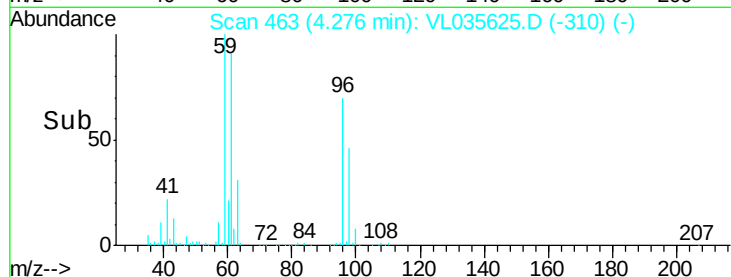
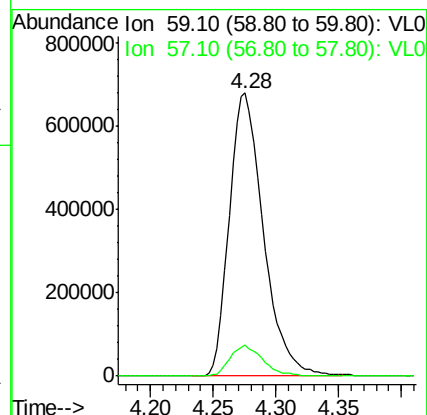
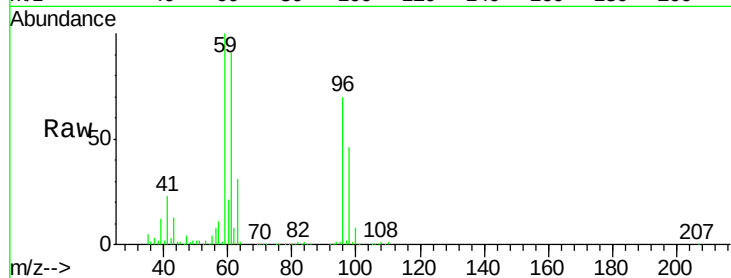
57 10.6 8.4 12.6

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#18

1,1-Dichloroethene

Concen: 10.685 ppbv

RT: 4.27 min Scan# 461

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

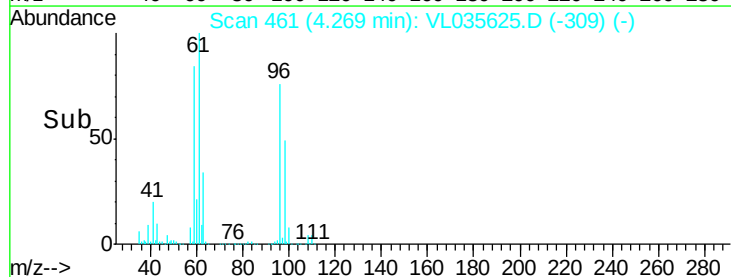
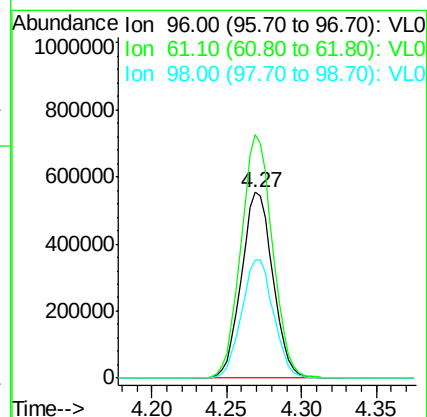
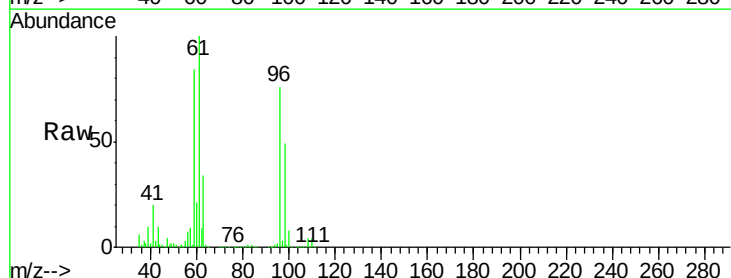
Tgt Ion: 96 Resp: 813770

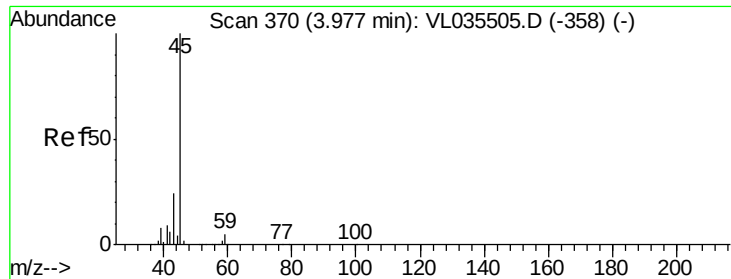
Ion Ratio Lower Upper

96 100

61 131.2 103.0 154.6

98 64.0 52.8 79.2





#19

Isopropyl Alcohol

Concen: 10.394 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 620122

Ion Ratio Lower Upper

45 100

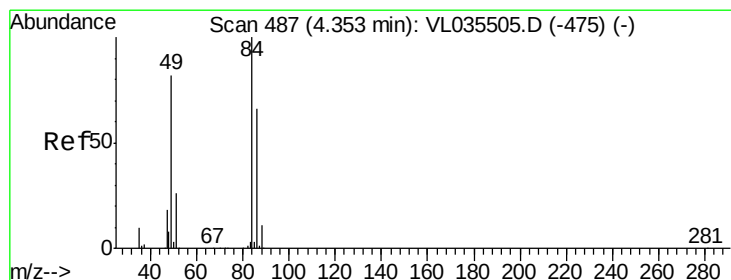
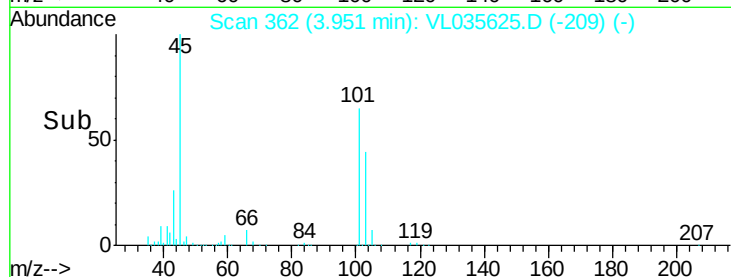
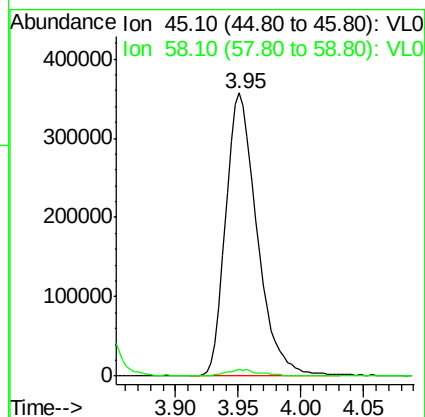
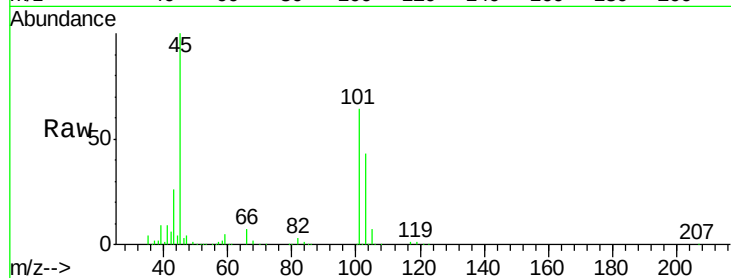
58 2.9 2.0 3.0

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#20

Methylene Chloride

Concen: 8.945 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Tgt Ion: 84 Resp: 666225

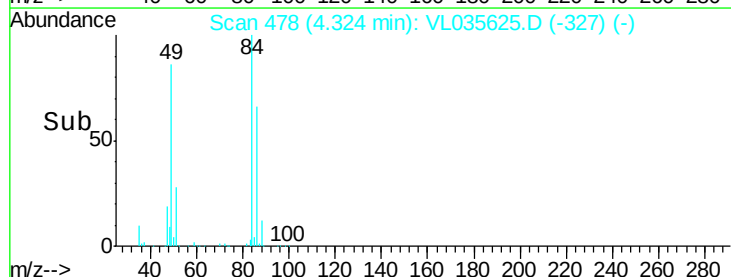
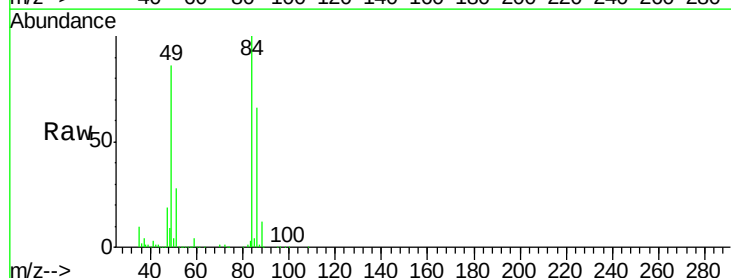
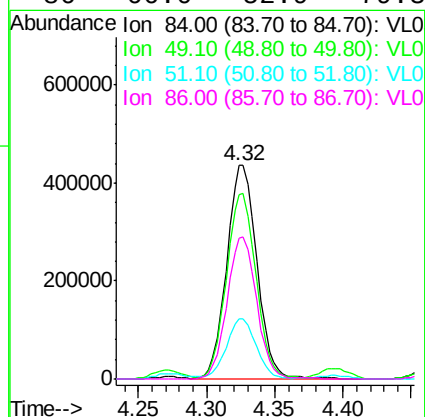
Ion Ratio Lower Upper

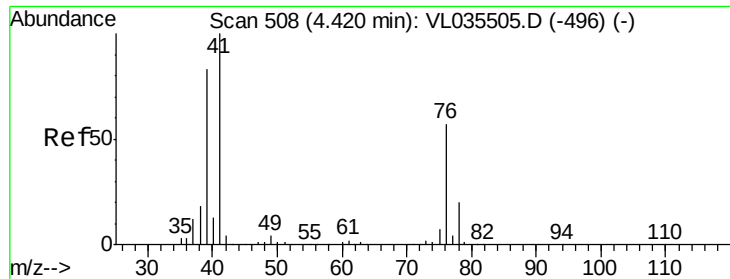
84 100

49 85.5 65.4 98.0

51 27.3 21.5 32.3

86 66.0 52.9 79.3





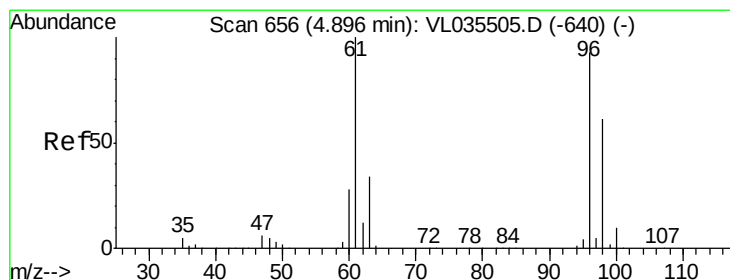
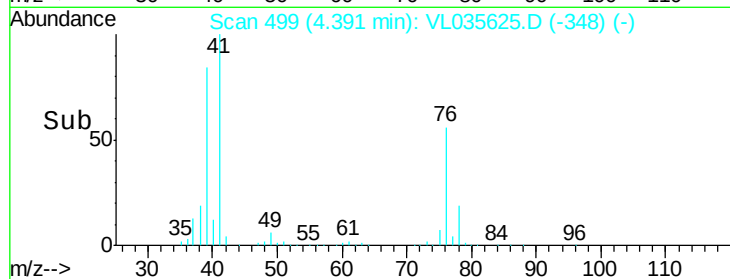
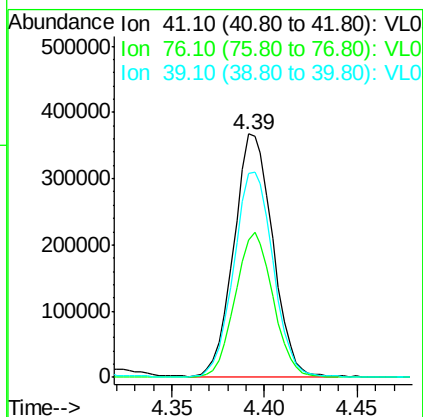
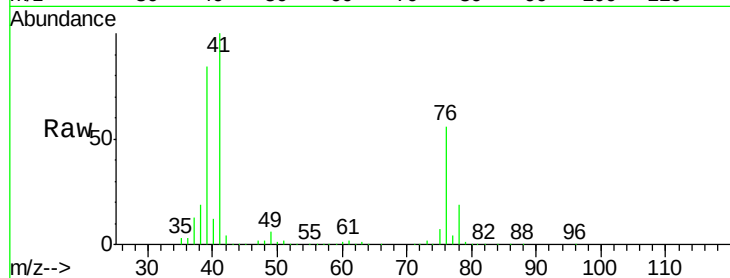
#21  
Allvl Chloride  
Concen: 11.344 ppbv  
RT: 4.39 min Scan# 499  
Delta R.T. -0.01 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 58.6  | 46.2  | 69.2  |
| 39      | 86.6  | 67.8  | 101.6 |

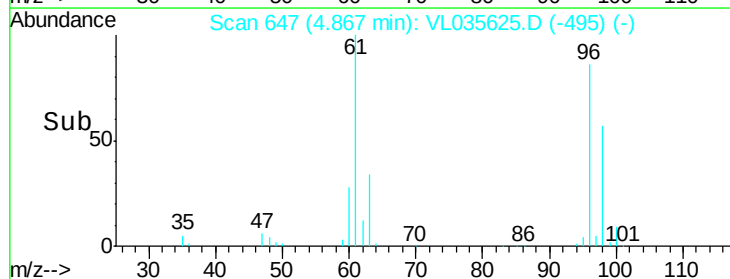
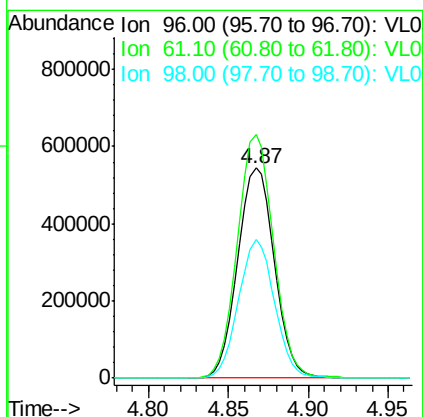
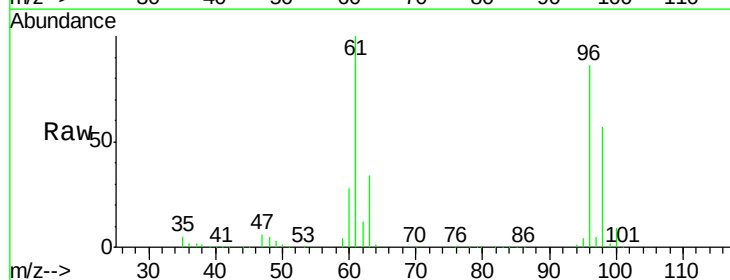
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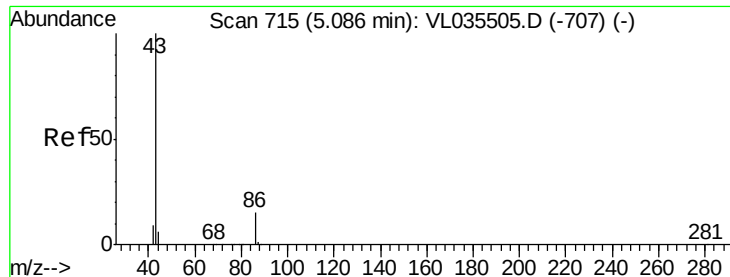
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#22  
trans-1,2-Dichloroethene  
Concen: 10.497 ppbv  
RT: 4.87 min Scan# 647  
Delta R.T. -0.01 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 116.1 | 86.0  | 129.0 |
| 98      | 65.8  | 52.3  | 78.5  |





#23

Vinyl Acetate

Concen: 10.493 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1346814

Ion Ratio Lower Upper

43 100

86 13.1 10.6 16.0

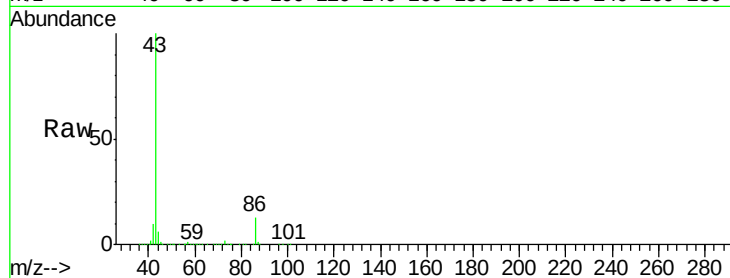
42 9.5 7.5 11.3

44 5.4 4.4 6.6

Manual Integrations  
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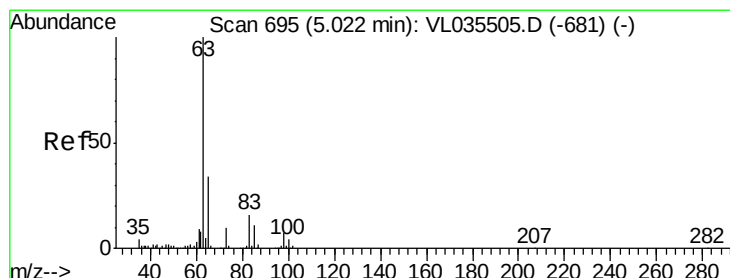
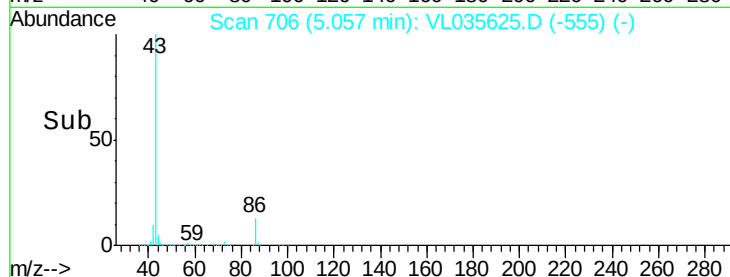
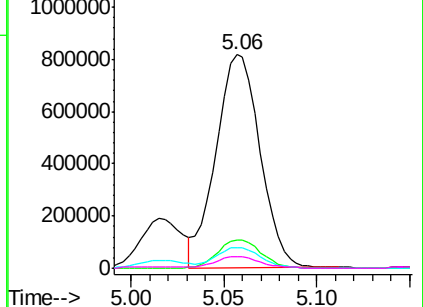


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.316 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

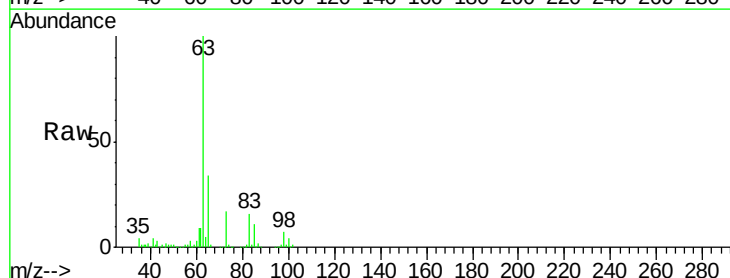
Tgt Ion: 63 Resp: 1362690

Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.1

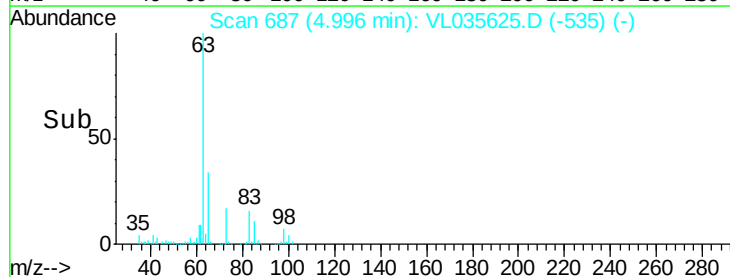
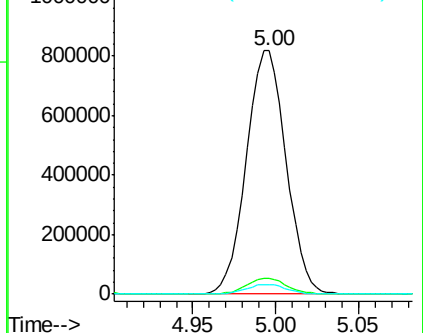
100 4.0 2.1 6.5



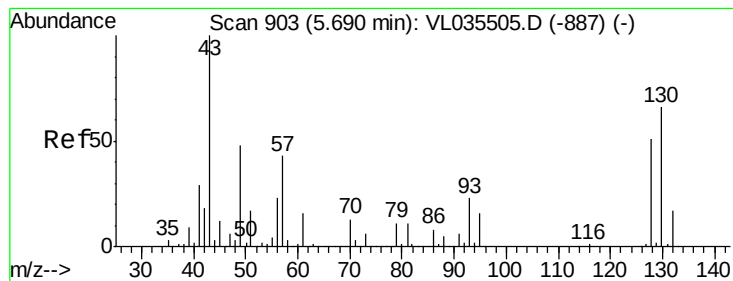
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0







#25

Ethyl Acetate

Concen: 10.201 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1802165

Ion Ratio Lower Upper

43 100

45 10.6 8.4 12.6

61 13.3 10.6 16.0

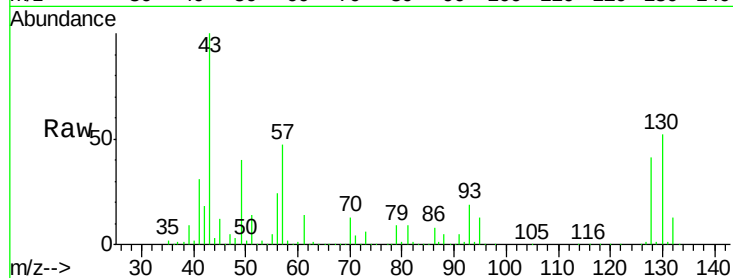
70 11.7 9.4 14.2

Manual Integrations

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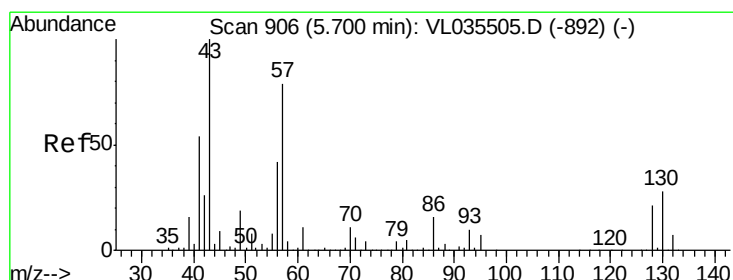
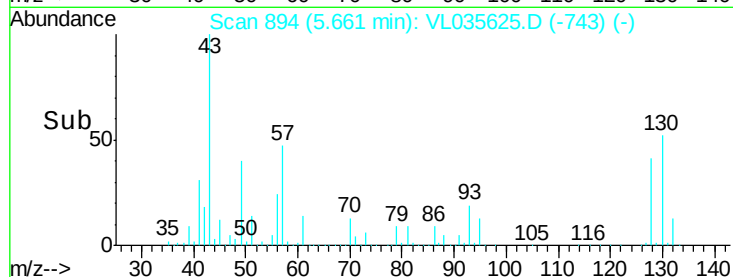
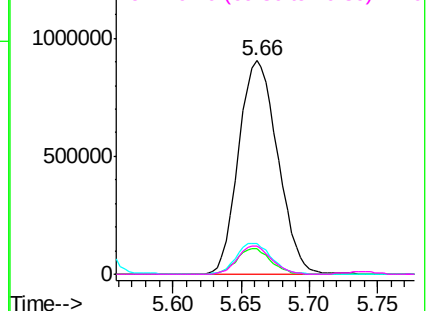
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.301 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Tgt Ion: 57 Resp: 1031131

Ion Ratio Lower Upper

57 100

41 69.8 55.9 83.9

43 175.5 141.8 212.8

56 51.9 41.8 62.8

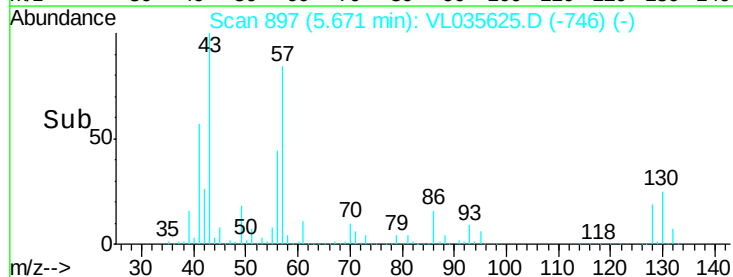
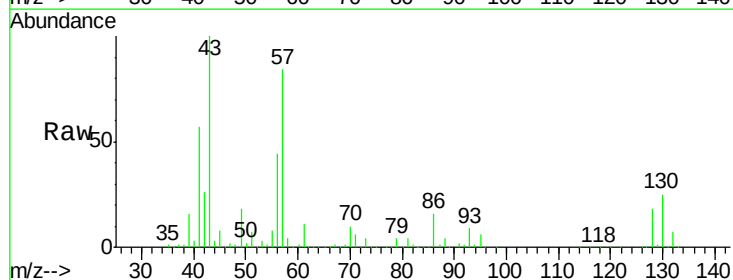
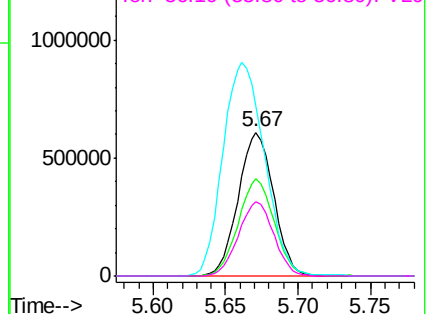
Abundance

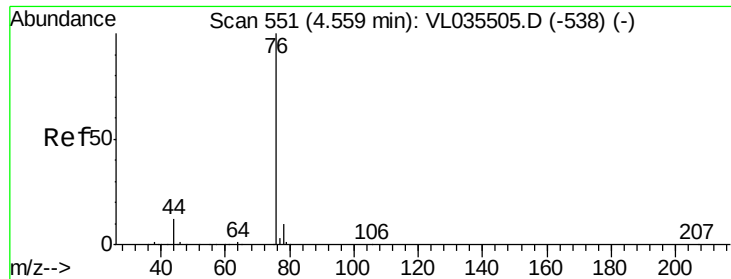
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.931 ppbv

RT: 4.53 min Scan# 543

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1713852

Ion Ratio Lower Upper

76 100

44 11.6 9.3 13.9

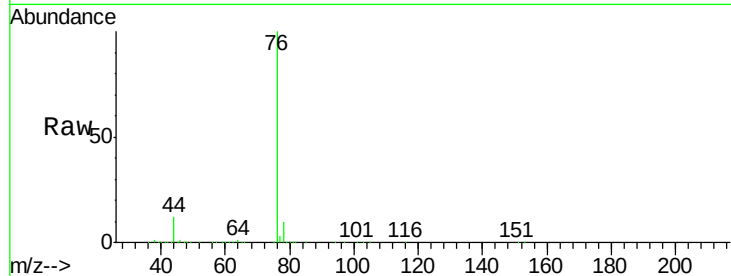
78 9.8 7.8 11.6

Manual Integrations

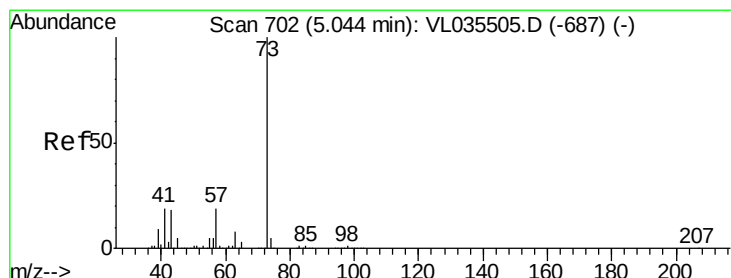
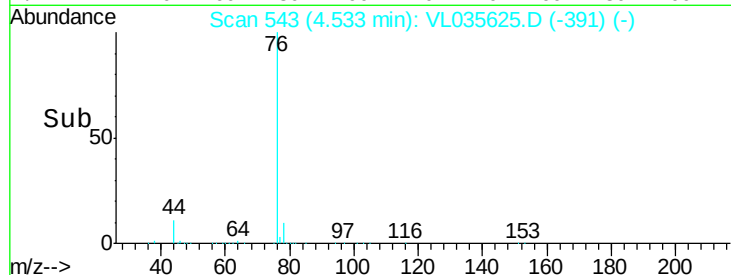
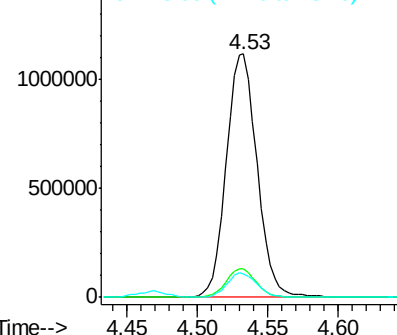
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Abundance Ion 76.00 (75.70 to 76.70): VL0  
Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.734 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.01 min

Lab File: VL035625.D

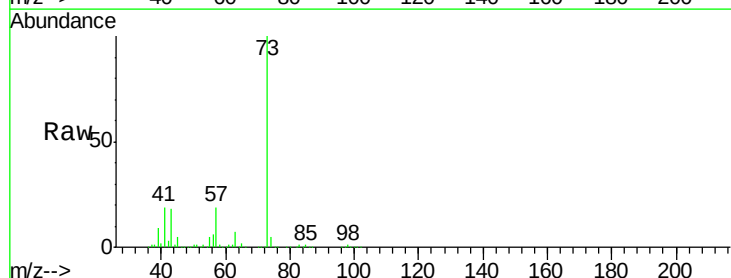
Acq: 15 Sep 2020 8:52

Tgt Ion: 73 Resp: 1872631

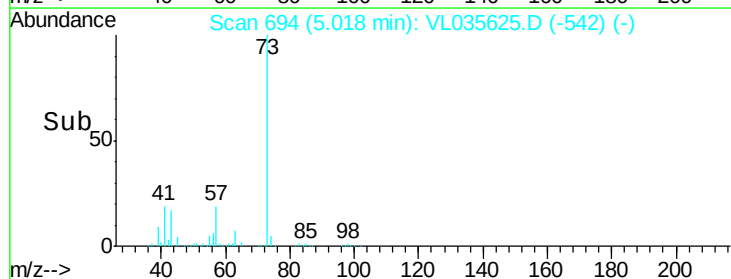
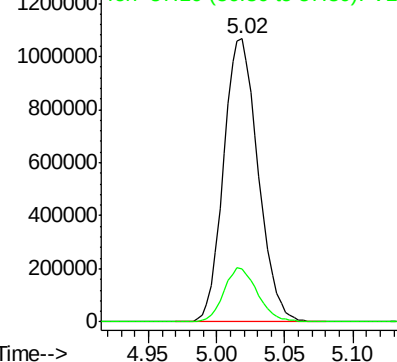
Ion Ratio Lower Upper

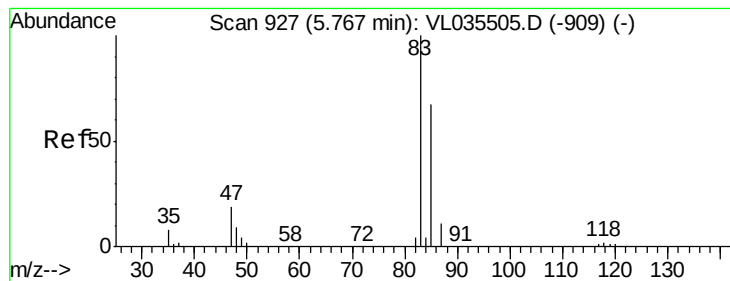
73 100

57 18.8 15.2 22.8



Abundance Ion 73.10 (72.80 to 73.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.418 ppbv

RT: 5.74 min Scan# 918

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2124727

Ion Ratio Lower Upper

83 100

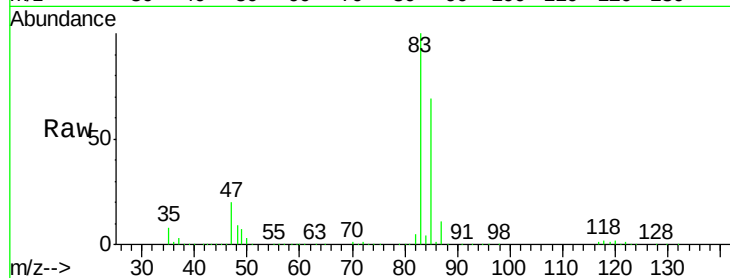
85 68.4 53.9 80.9

Manual Integrations

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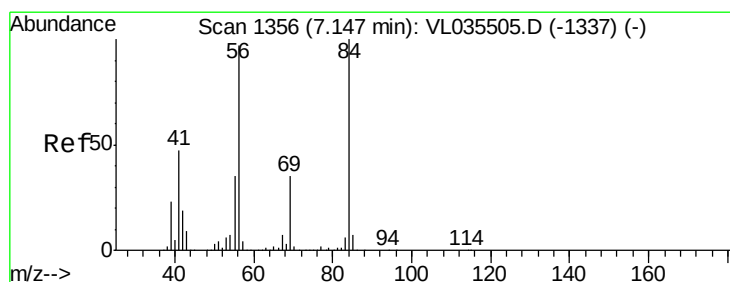
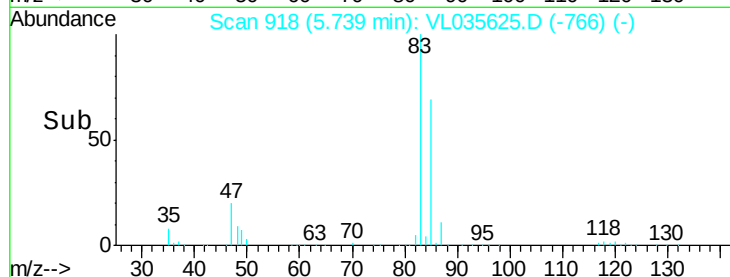
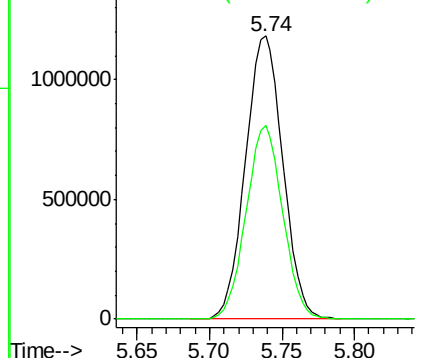
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 11.037 ppbv

RT: 7.11 min Scan# 1346

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

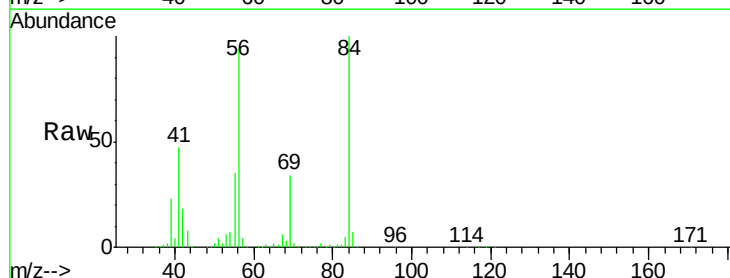
Tgt Ion: 84 Resp: 1183555

Ion Ratio Lower Upper

84 100

56 99.9 80.1 120.1

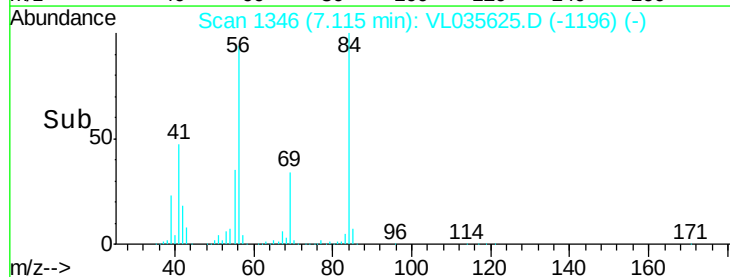
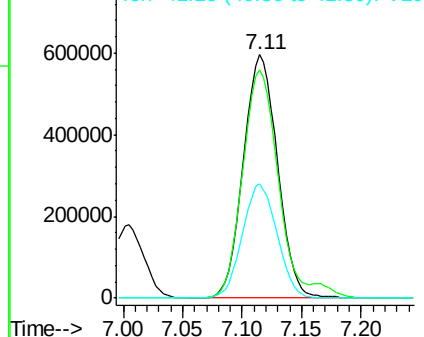
41 47.5 38.1 57.1

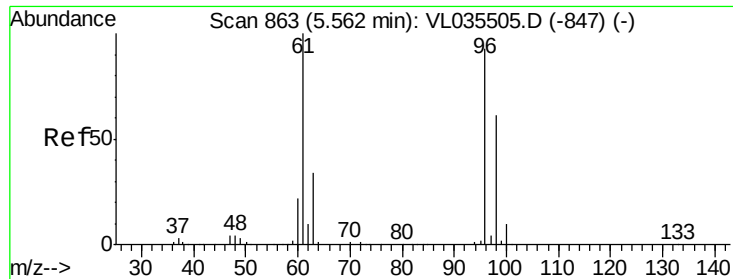


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





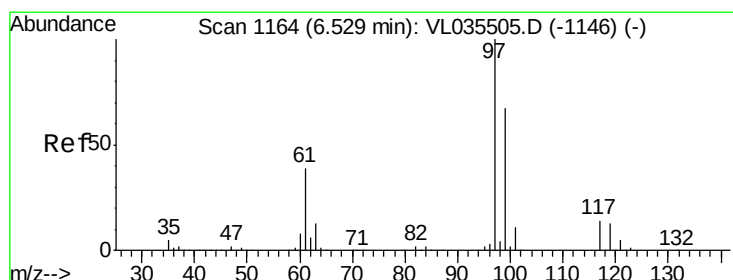
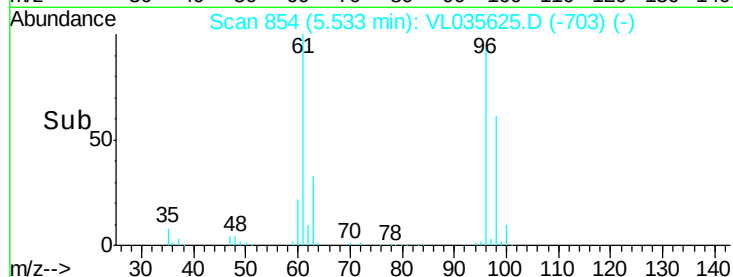
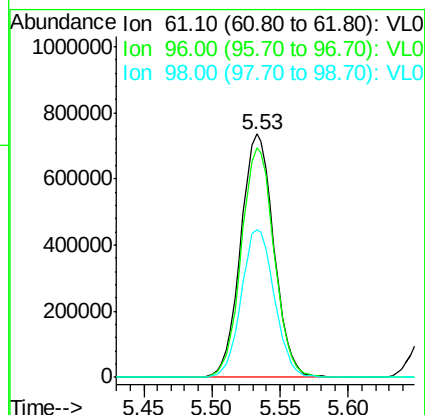
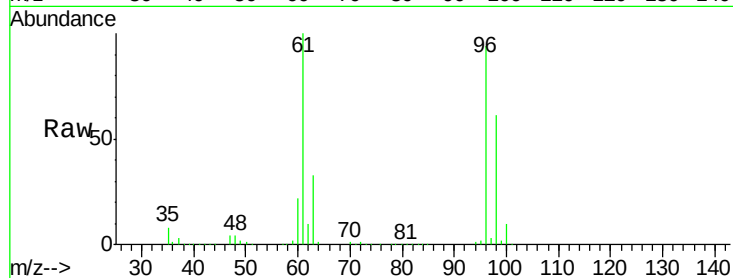
#31  
 cis-1,2-Dichloroethene  
 Concen: 12.091 ppbv  
 RT: 5.53 min Scan# 854  
 Delta R.T. -0.01 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 94.3  | 74.4  | 111.6 |
| 98      | 60.7  | 49.2  | 73.8  |

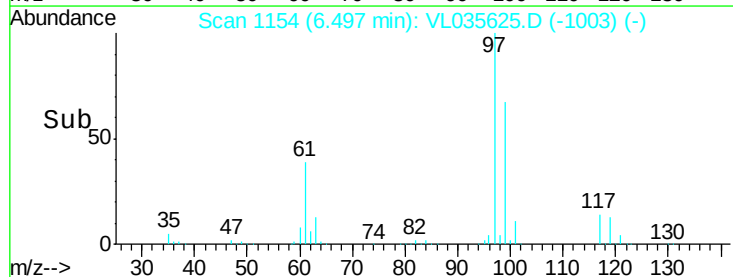
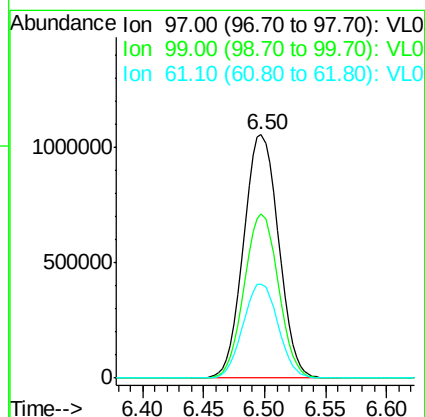
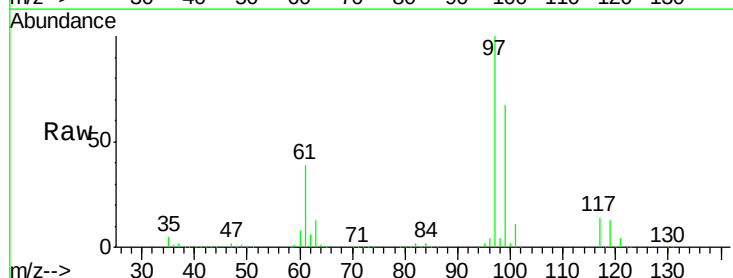
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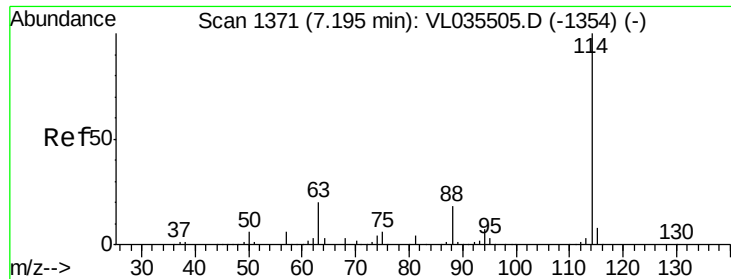
MMDadoda  
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#32  
 1,1,1-Trichloroethane  
 Concen: 10.575 ppbv  
 RT: 6.50 min Scan# 1154  
 Delta R.T. -0.01 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 66.2  | 53.3  | 79.9  |
| 61      | 38.9  | 30.6  | 46.0  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:114 Resp: 3977130

Ion Ratio Lower Upper

114 100

63 18.4 14.7 22.1

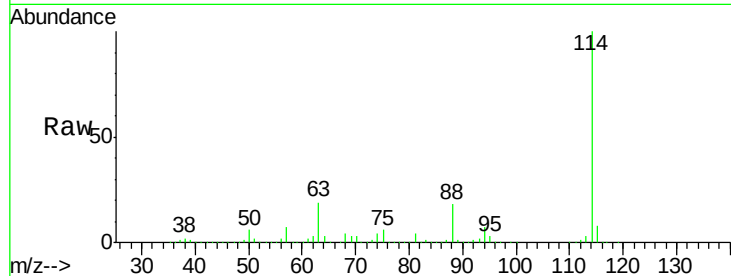
88 16.7 13.4 20.2

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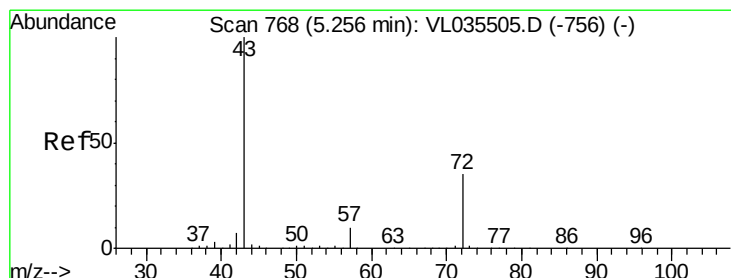
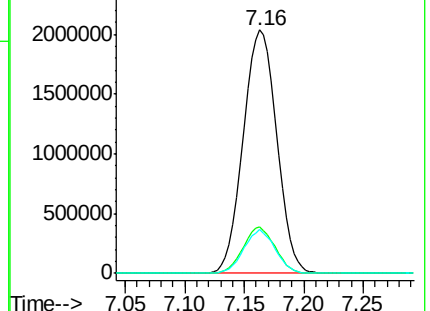
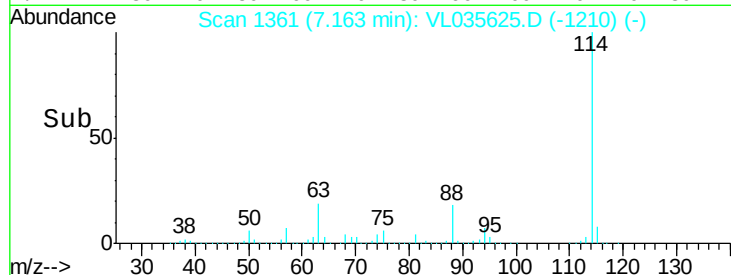
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.518 ppbv

RT: 5.23 min Scan# 759

Delta R.T. -0.01 min

Lab File: VL035625.D

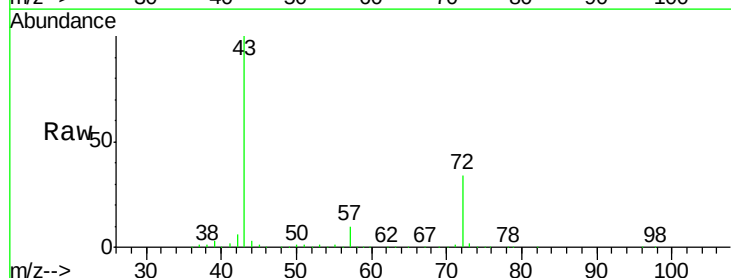
Acq: 15 Sep 2020 8:52

Tgt Ion: 43 Resp: 1241403

Ion Ratio Lower Upper

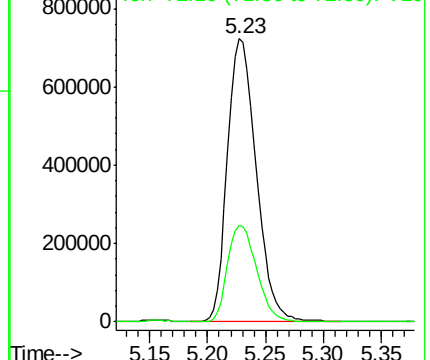
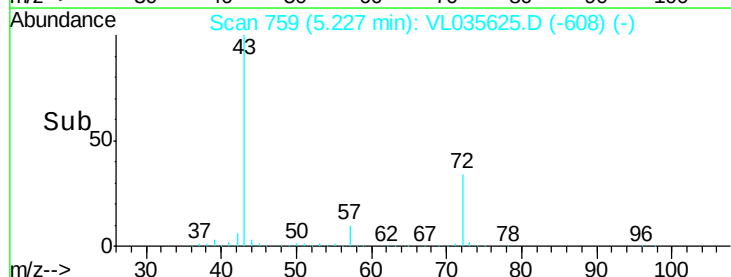
43 100

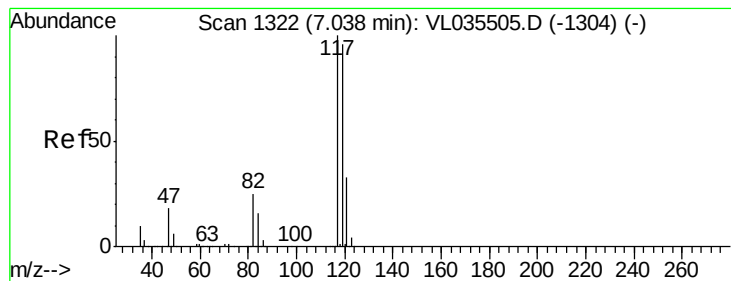
72 34.5 27.7 41.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.901 ppbv

RT: 7.00 min Scan# 1311

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2179066

Ion Ratio Lower Upper

117 100

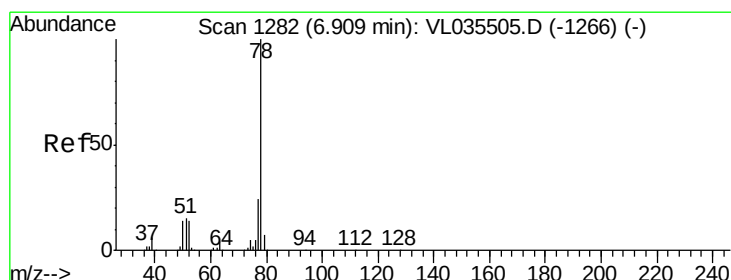
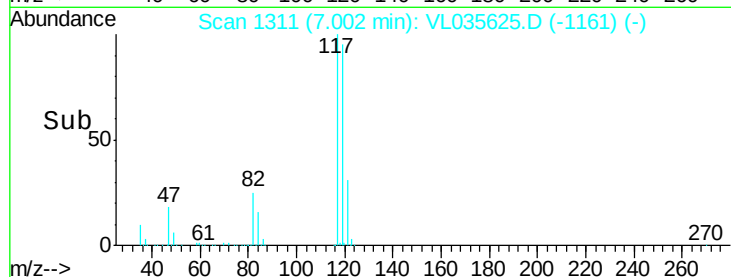
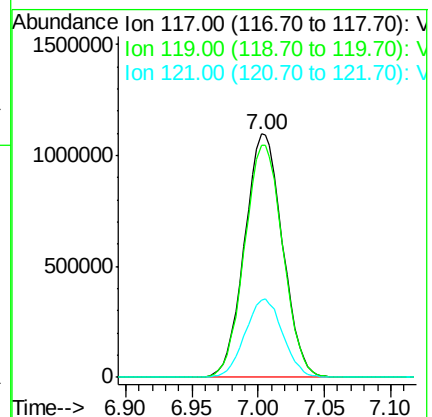
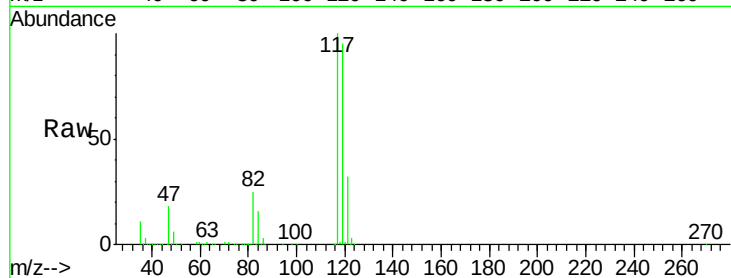
119 95.3 77.2 115.8

121 31.5 26.1 39.1

Manual Integrations  
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#36

Benzene

Concen: 10.565 ppbv

RT: 6.88 min Scan# 1272

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

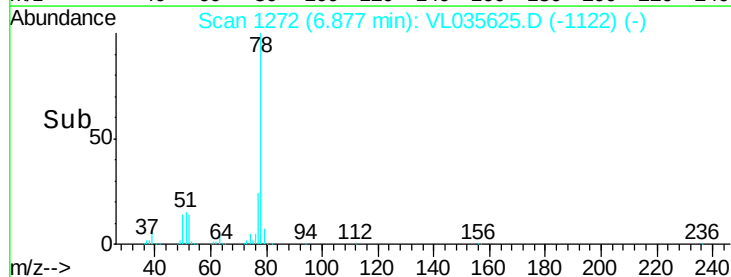
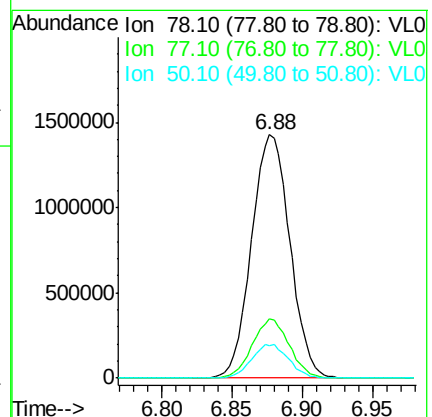
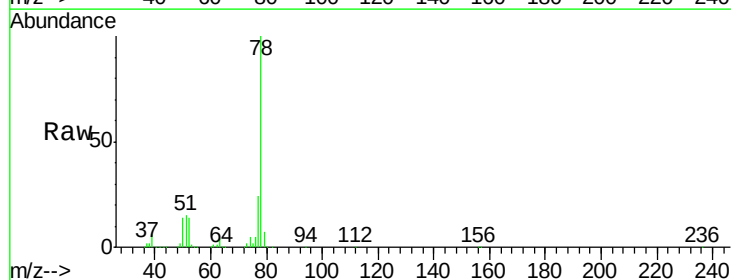
Tgt Ion: 78 Resp: 2719906

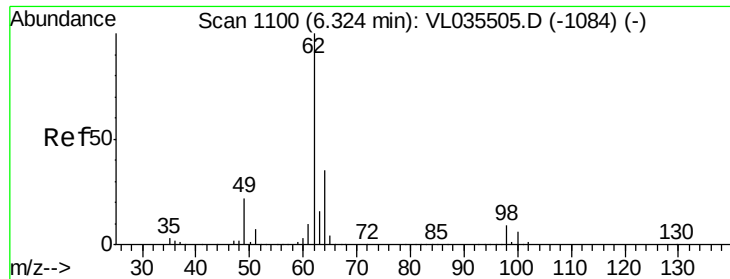
Ion Ratio Lower Upper

78 100

77 24.2 19.3 28.9

50 13.5 11.0 16.6





#37

1,2-Dichloroethane

Concen: 10.602 ppbv

RT: 6.29 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 1301306

Ion Ratio Lower Upper

62 100

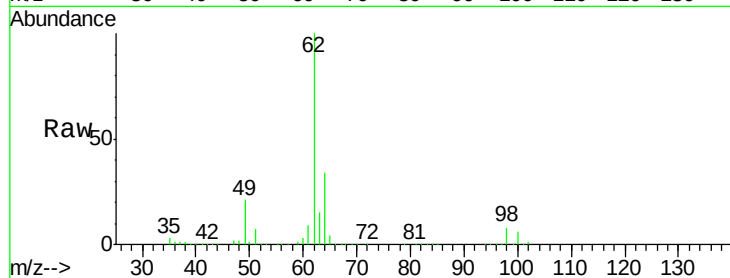
98 8.9 7.4 11.0

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.29

800000

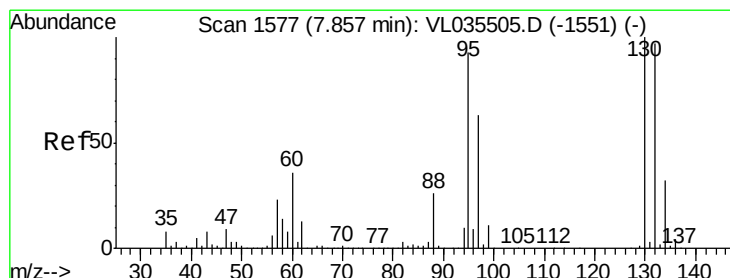
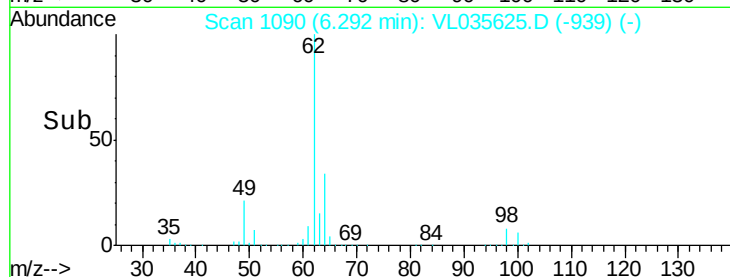
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 12.859 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Tgt Ion:130 Resp: 1922981

Ion Ratio Lower Upper

130 100

95 98.2 74.6 112.0

132 96.5 77.6 116.4

97 65.4 50.6 76.0

Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

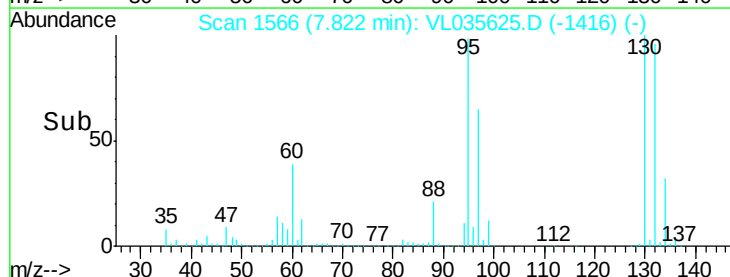
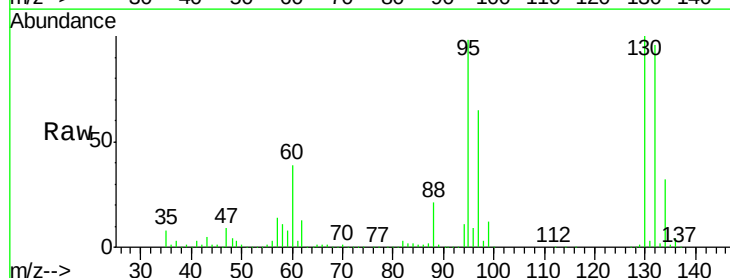
1500000

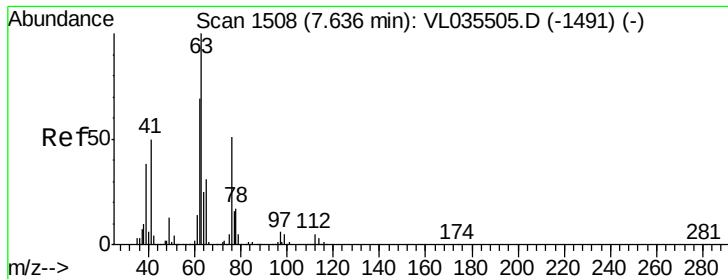
1000000

500000

0

Time-->





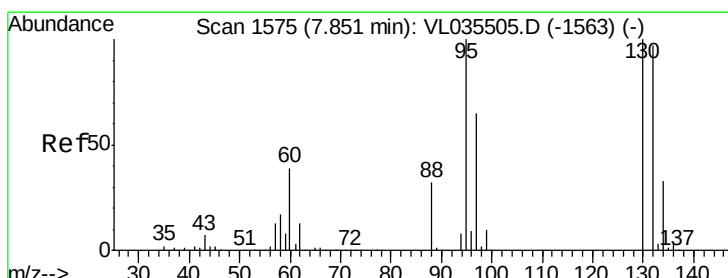
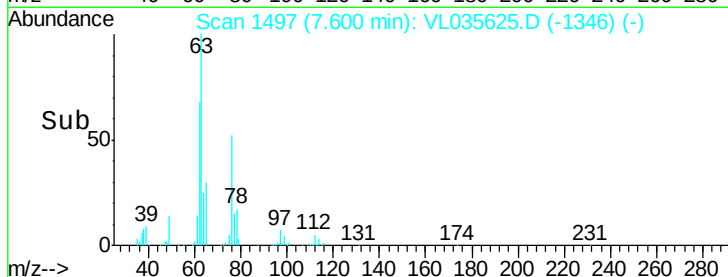
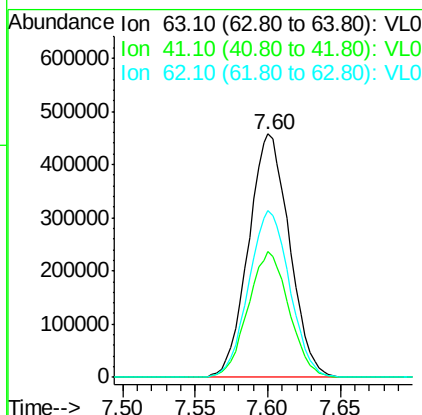
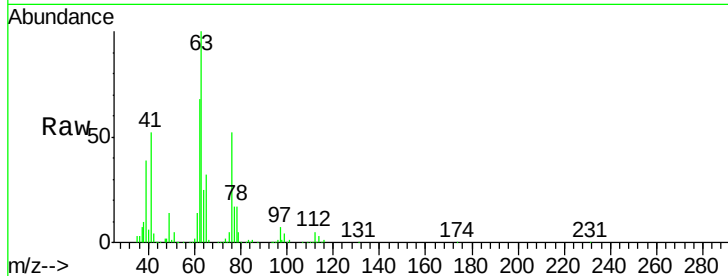
#39  
 1,2-Dichloropropane  
 Concen: 10.344 ppbv  
 RT: 7.60 min Scan# 1497  
 Delta R.T. -0.01 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 51.8  | 40.0  | 60.0  |
| 62      | 68.3  | 55.4  | 83.0  |

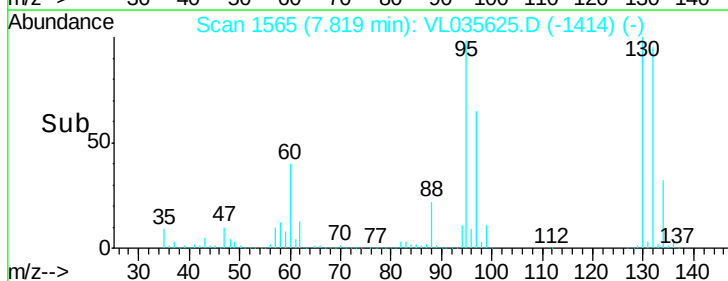
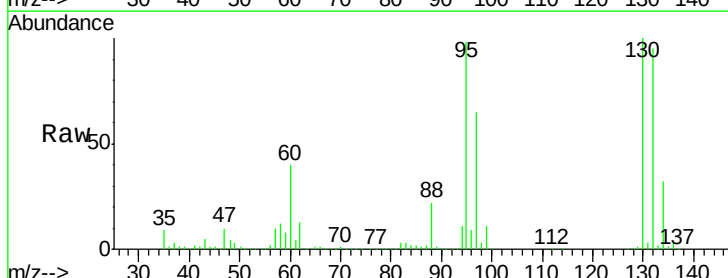
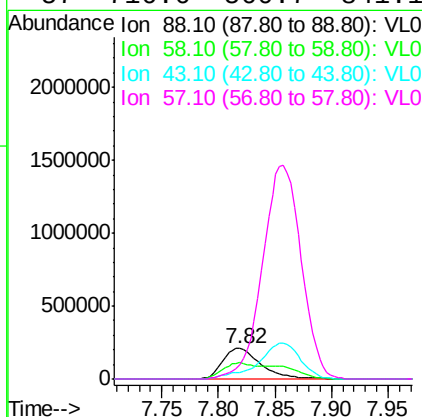
Manual Integrations  
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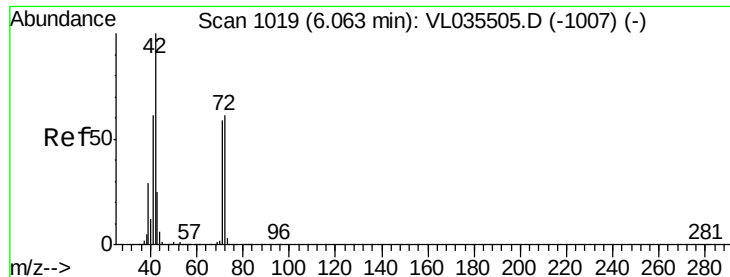


#40  
 1,4-Dioxane  
 Concen: 11.187 ppbv  
 RT: 7.82 min Scan# 1565  
 Delta R.T. -0.01 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 86.0  | 68.7  | 103.1 |
| 43      | 130.4 | 104.3 | 156.5 |
| 57      | 716.6 | 560.7 | 841.1 |







#41

Tetrahydrofuran

Concen: 11.228 ppbv

RT: 6.03 min Scan# 1009

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

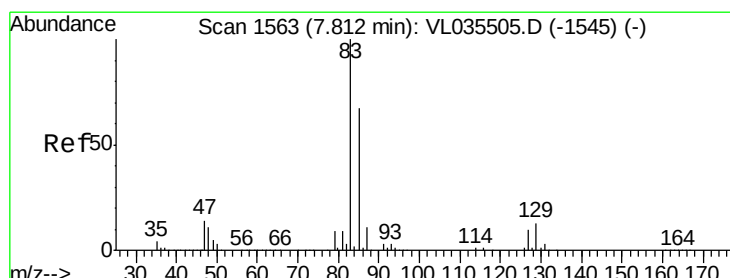
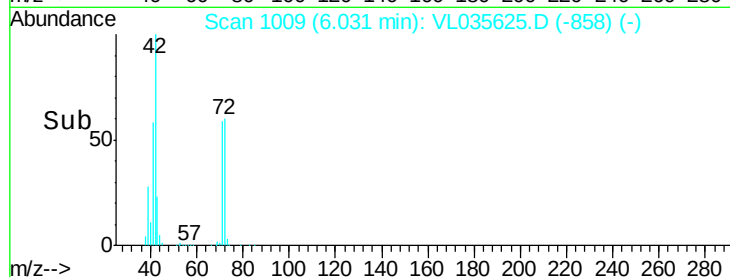
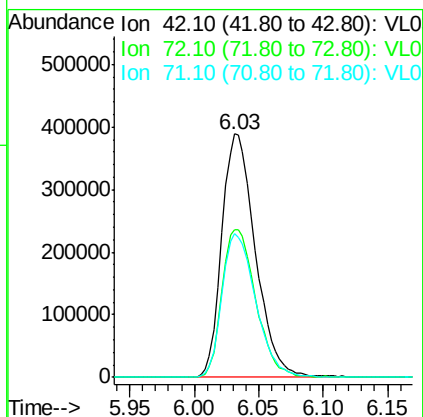
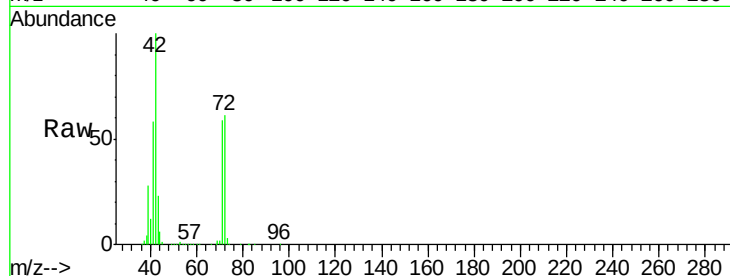
ClientSampleId :

VSTDCCC010EC

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 702749 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 61.2  | 48.6  | 73.0   |
| 71       | 59.5  | 46.1  | 69.1   |

Manual Integrations  
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#42

Bromodichloromethane

Concen: 11.252 ppbv

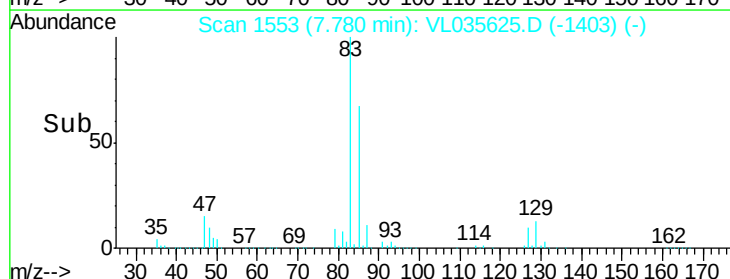
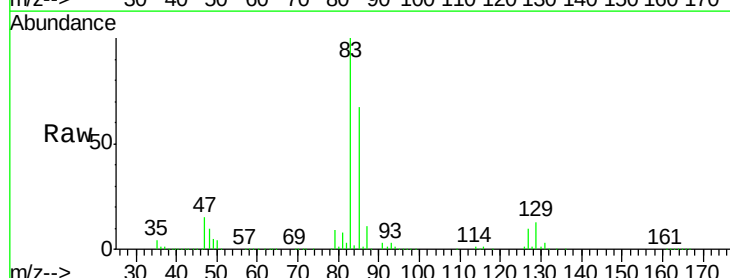
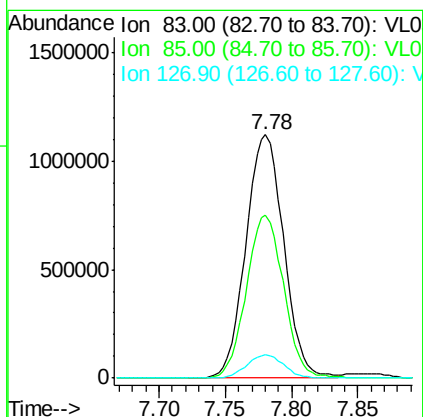
RT: 7.78 min Scan# 1553

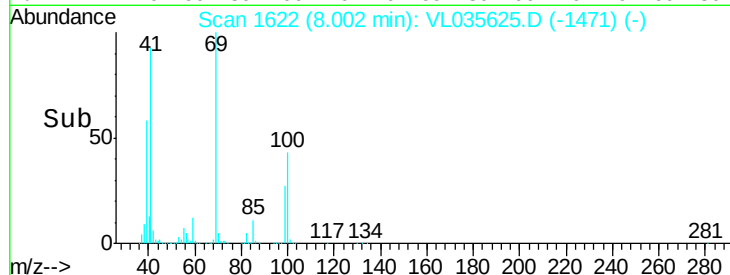
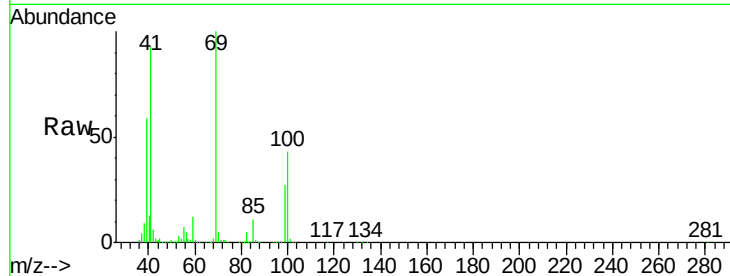
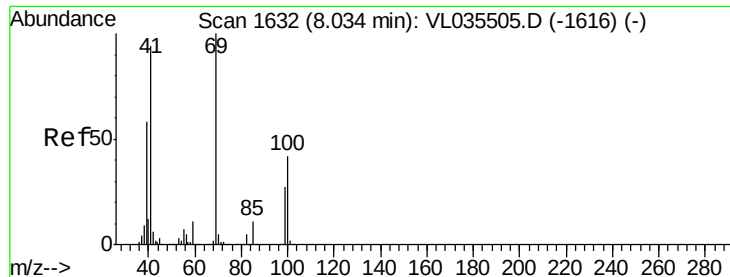
Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 83    | Resp: | 2233269 |
| Ion      | Ratio | Lower | Upper   |
| 83       | 100   |       |         |
| 85       | 66.9  | 53.7  | 80.5    |
| 127      | 9.5   | 8.1   | 12.1    |





#43

Methyl Methacrylate

Concen: 11.274 ppbv

RT: 8.00 min Scan# 1622

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Tot Ion: 69 Resp: 1122351

Ion Ratio Lower Upper

69 100

41 94.7 76.6 114.8

100 41.4 33.8 50.6

Instrument :

MSVOA\_L

ClientSampleId :

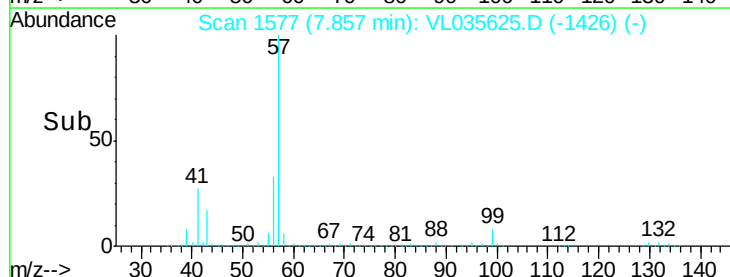
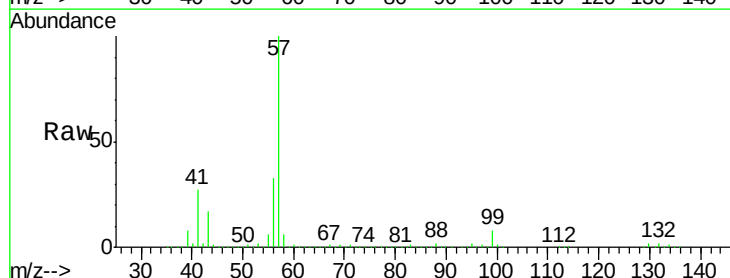
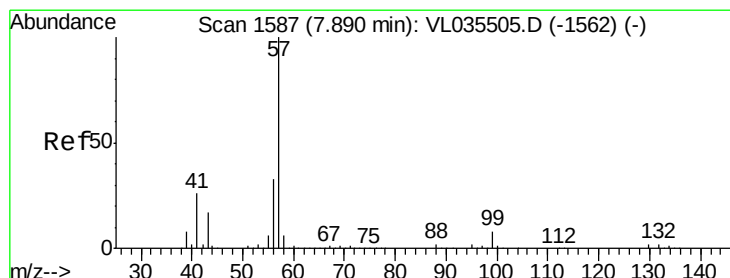
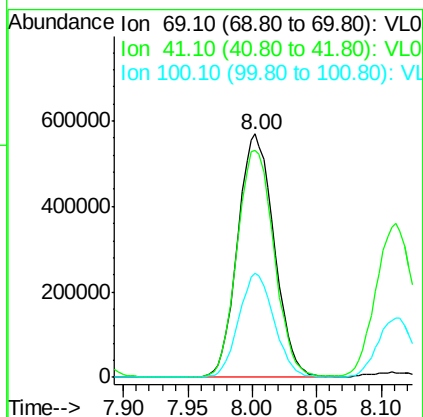
VSTDCCC010EC

Manual Integrations

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#44

2,2,4-Trimethylpentane

Concen: 10.276 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

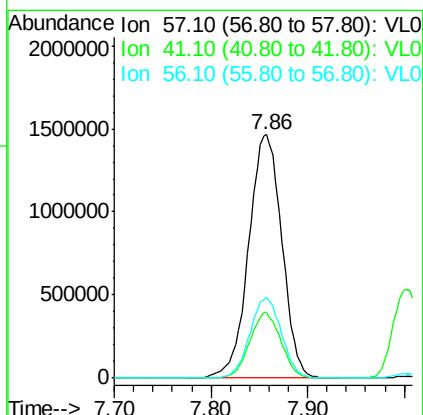
Tgt Ion: 57 Resp: 3480721

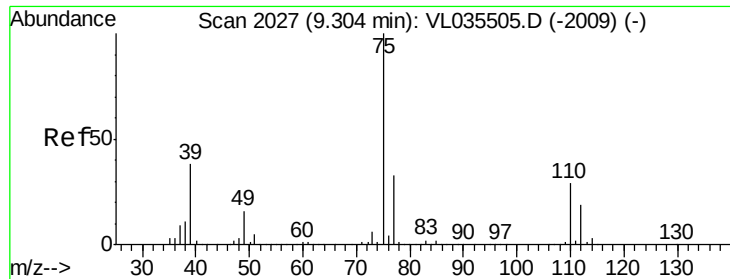
Ion Ratio Lower Upper

57 100

41 25.6 20.5 30.7

56 31.5 25.3 37.9





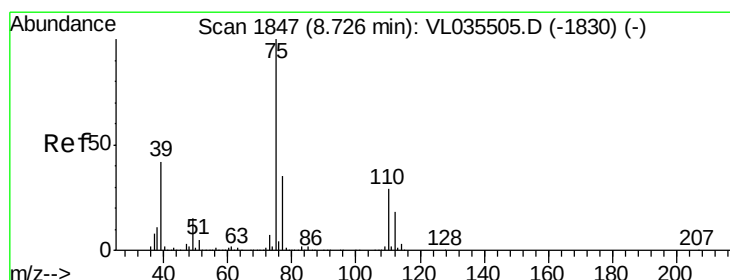
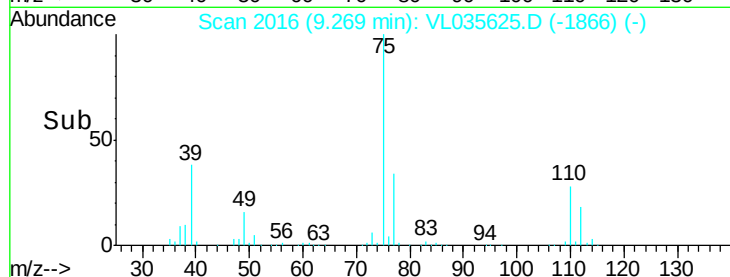
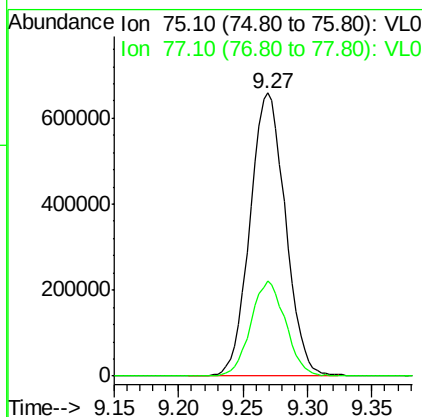
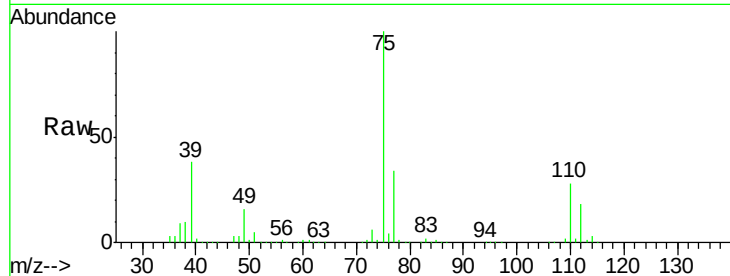
#45  
t-1,3-Dichloropropene  
Concen: 12.537 ppbv  
RT: 9.27 min Scan# 2016  
Delta R.T. -0.02 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 75 Resp: 1264326  
Ion Ratio Lower Upper  
75 100  
77 33.7 26.5 39.7

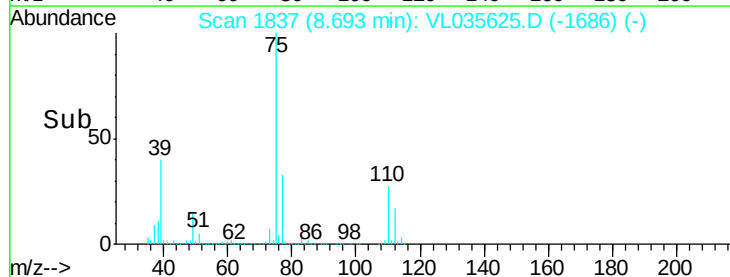
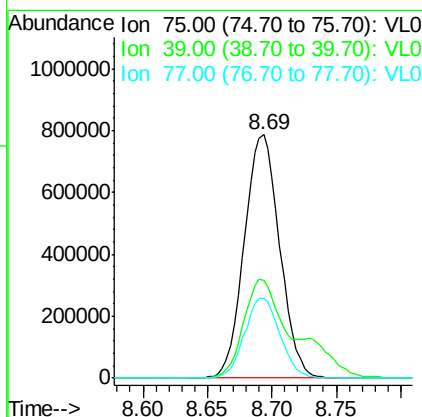
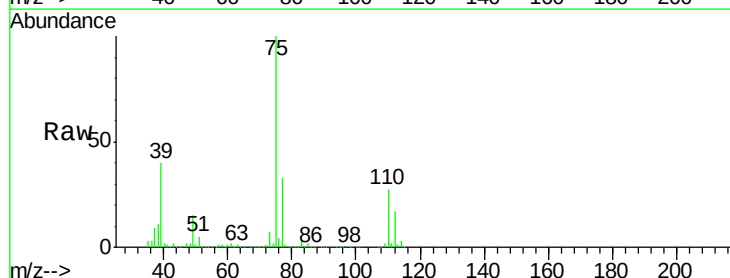
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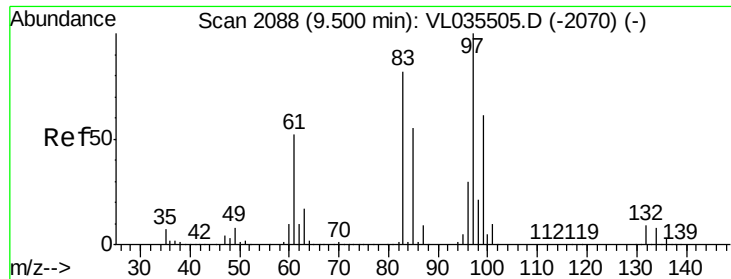
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#46  
cis-1,3-Dichloropropene  
Concen: 12.017 ppbv  
RT: 8.69 min Scan# 1837  
Delta R.T. -0.01 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

Tgt Ion: 75 Resp: 1504631  
Ion Ratio Lower Upper  
75 100  
39 40.3 33.7 50.5  
77 33.0 27.8 41.6





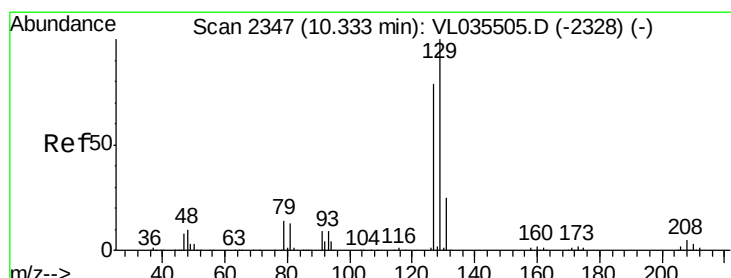
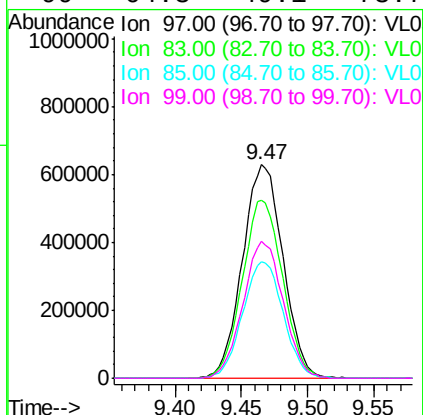
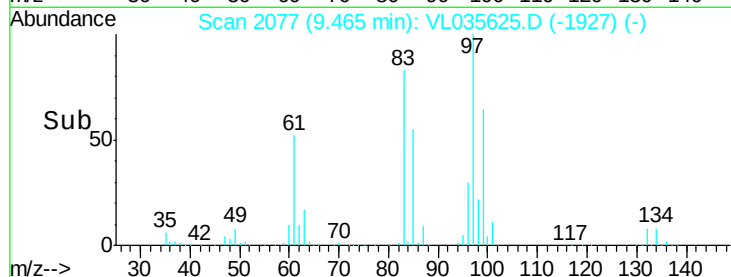
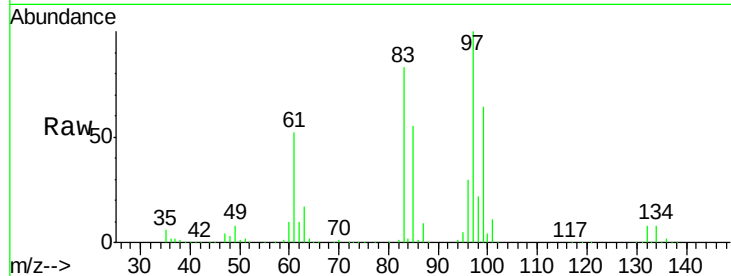
#47  
 1,1,2-Trichloroethane  
 Concen: 10.417 ppbv  
 RT: 9.47 min Scan# 2077  
 Delta R.T. -0.02 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | 97    | Resp  | 1336753 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 97      | 100   |       |         |
| 83      | 83.1  | 65.4  | 98.2    |
| 85      | 54.5  | 43.7  | 65.5    |
| 99      | 64.3  | 49.1  | 73.7    |

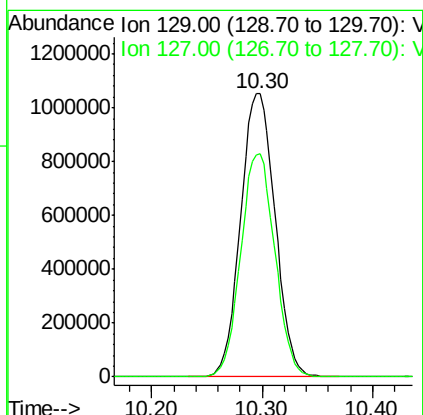
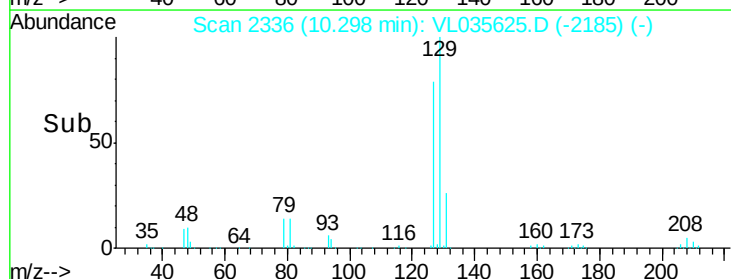
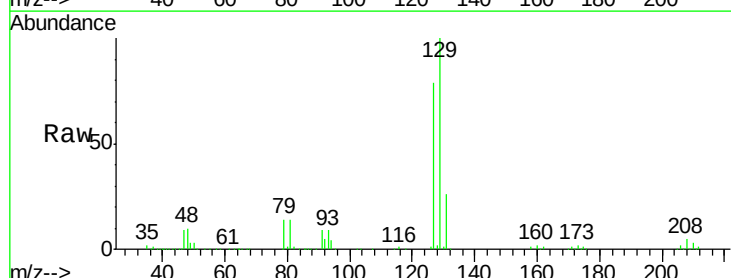
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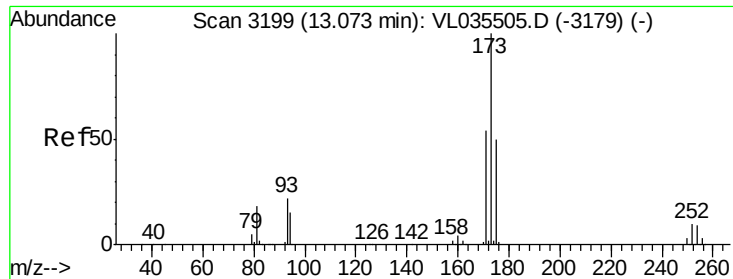
MMDadoda  
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#48  
 Dibromochloromethane  
 Concen: 11.307 ppbv  
 RT: 10.30 min Scan# 2336  
 Delta R.T. -0.01 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

| Tgt Ion | 129   | Resp  | 2283679 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 129     | 100   |       |         |
| 127     | 78.1  | 39.3  | 117.8   |





#49

Bromoform

Concen: 11.350 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 2077573

Ion Ratio Lower Upper

173 100

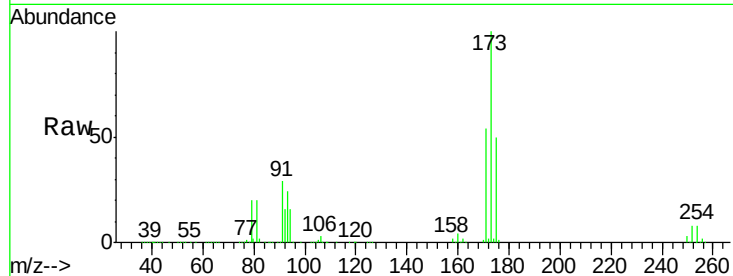
175 49.7 39.8 59.8

171 52.9 42.4 63.6

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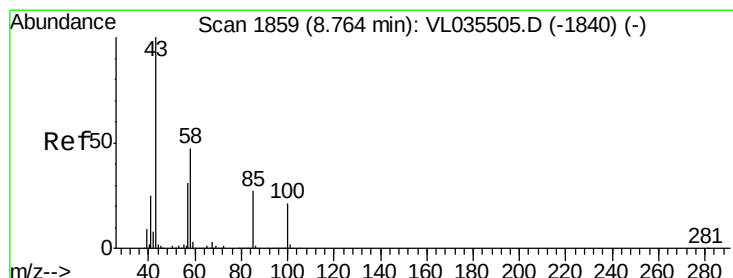
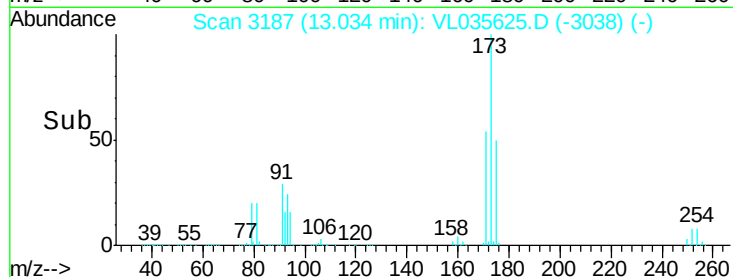
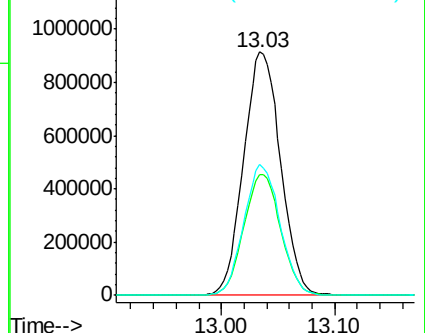
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.668 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. -0.01 min

Lab File: VL035625.D

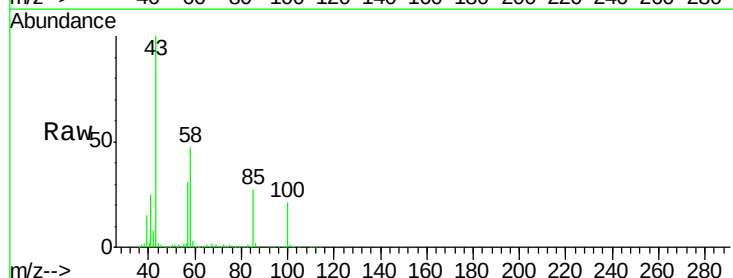
Acq: 15 Sep 2020 8:52

Tgt Ion: 43 Resp: 1823314

Ion Ratio Lower Upper

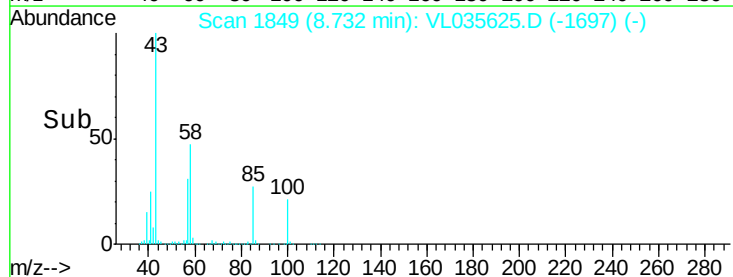
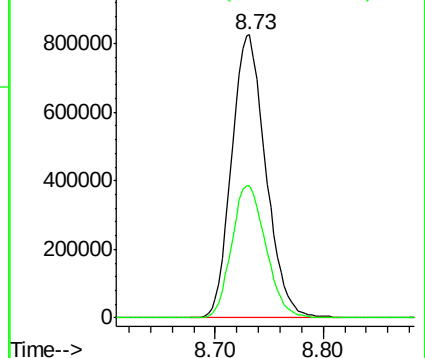
43 100

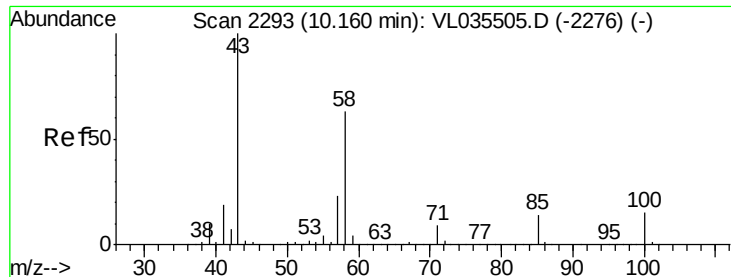
58 47.1 37.4 56.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





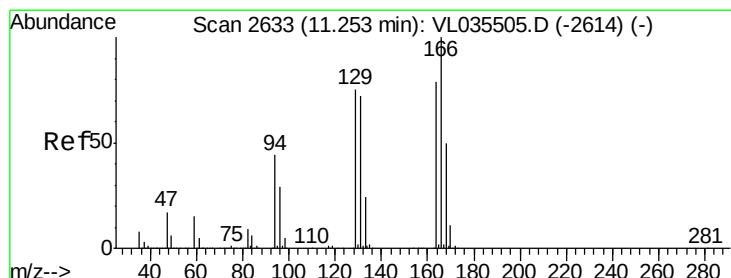
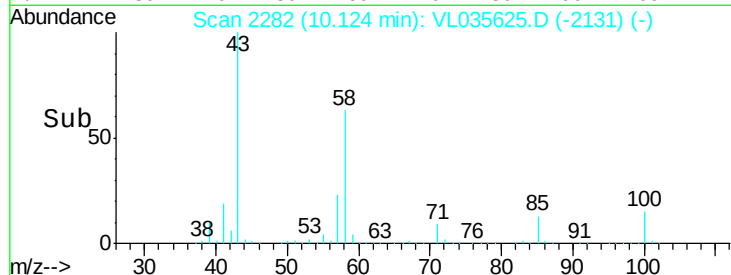
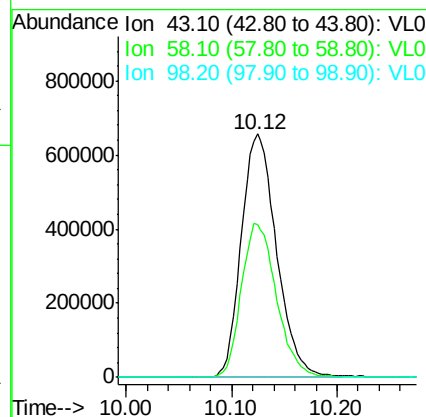
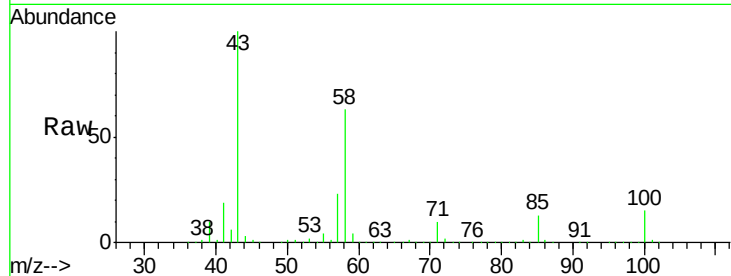
#51  
2-Hexanone  
Concen: 10.865 ppbv  
RT: 10.12 min Scan# 2282  
Delta R.T. -0.01 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 43 Resp: 1523207  
Ion Ratio Lower Upper  
43 100  
58 63.3 50.2 75.4  
98 0.6 0.4 0.6

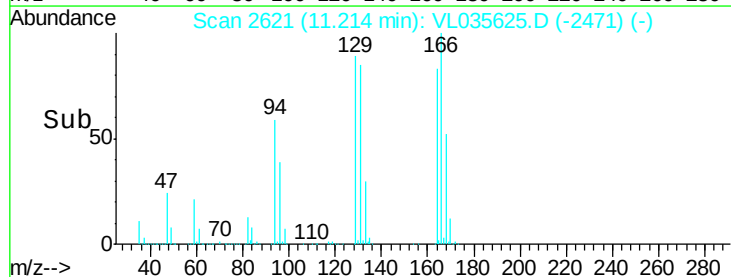
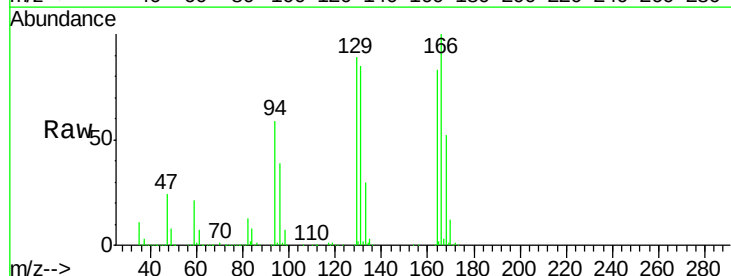
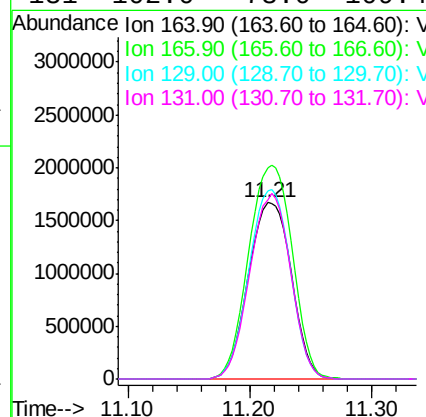
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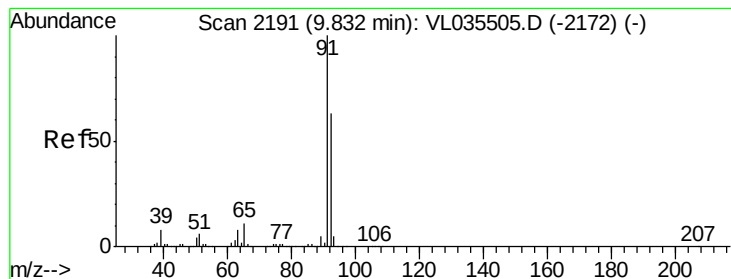
MMDadoda  
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#52  
Tetrachloroethene  
Concen: 27.179 ppbv  
RT: 11.21 min Scan# 2621  
Delta R.T. -0.02 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

Tgt Ion: 164 Resp: 4087616  
Ion Ratio Lower Upper  
164 100  
166 120.1 100.9 151.3  
129 107.0 75.3 112.9  
131 102.0 73.0 109.4





#53

Toluene

Concen: 10.737 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3475938

Ion Ratio Lower Upper

91 100

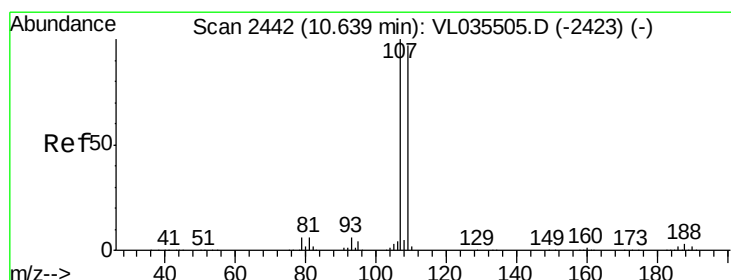
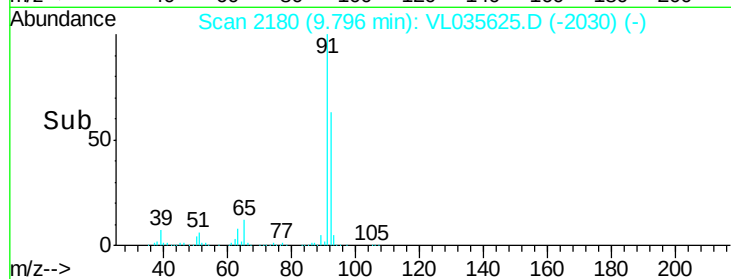
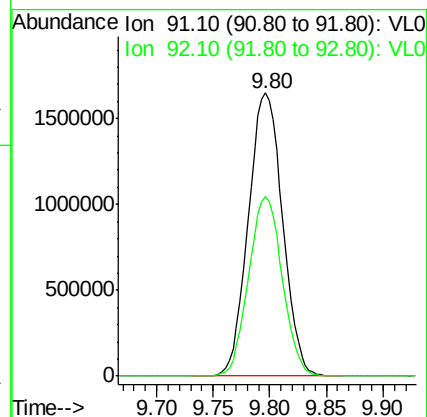
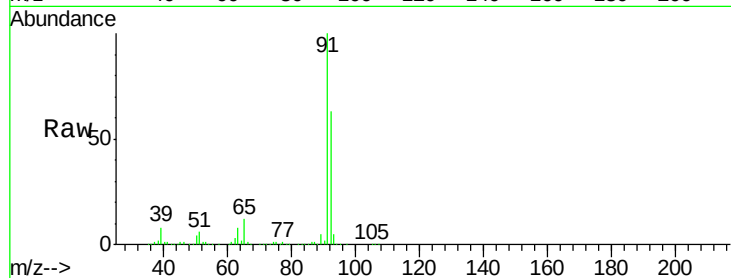
92 62.3 49.8 74.8

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.573 ppbv

RT: 10.60 min Scan# 2431

Delta R.T. -0.02 min

Lab File: VL035625.D

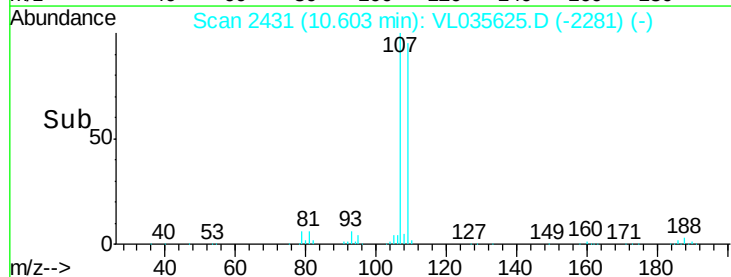
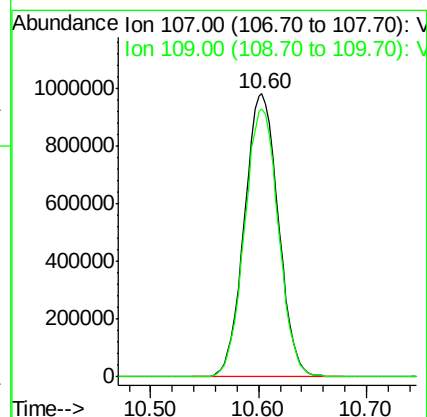
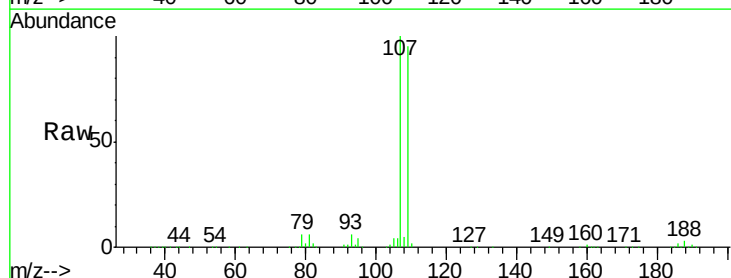
Acq: 15 Sep 2020 8:52

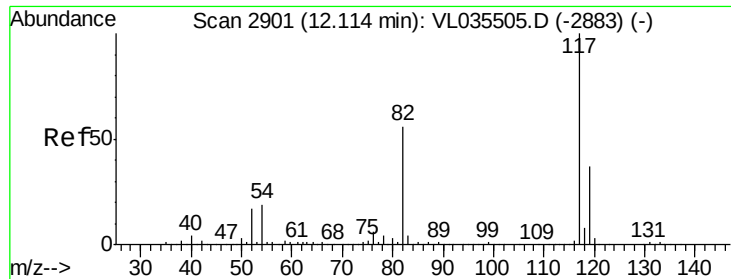
Tgt Ion: 107 Resp: 2143895

Ion Ratio Lower Upper

107 100

109 94.8 77.8 116.8





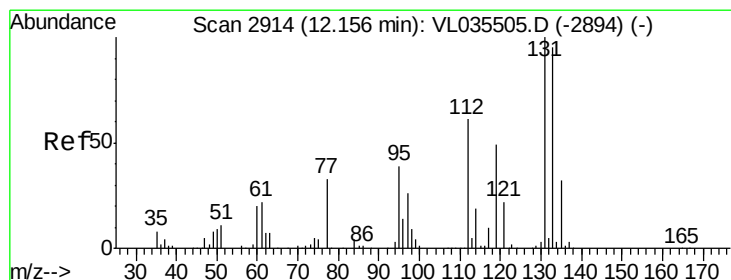
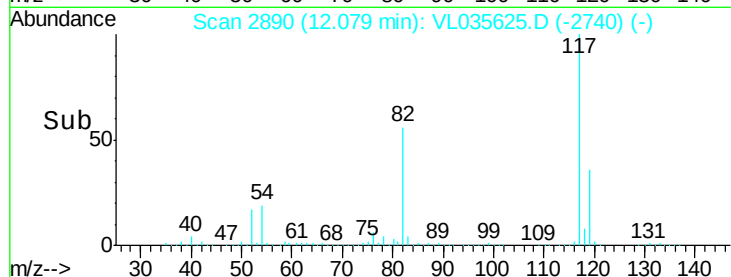
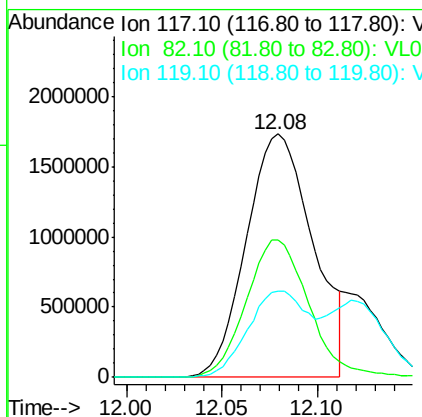
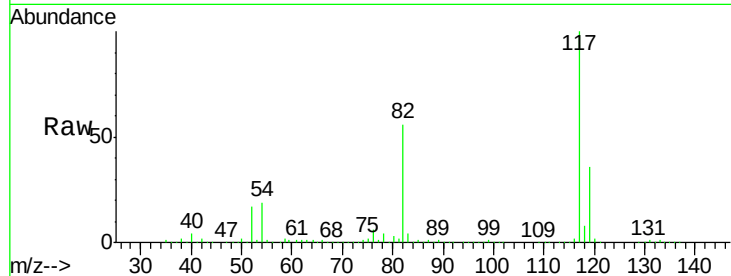
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.08 min Scan# 2890  
Delta R.T. -0.02 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion:117 Resp: 4197713  
Ion Ratio Lower Upper  
117 100  
82 53.4 41.6 62.4  
119 35.6 29.3 43.9

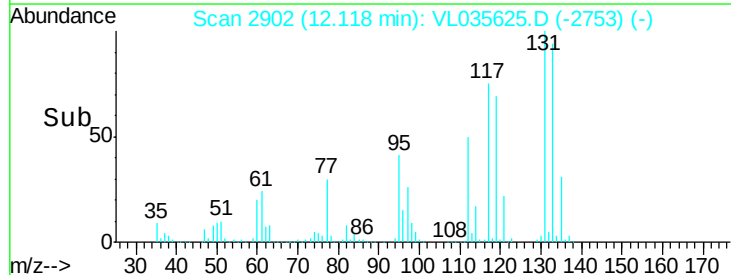
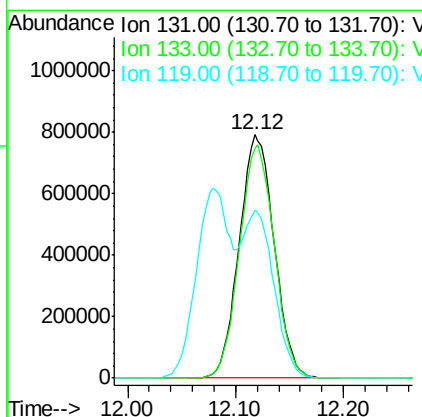
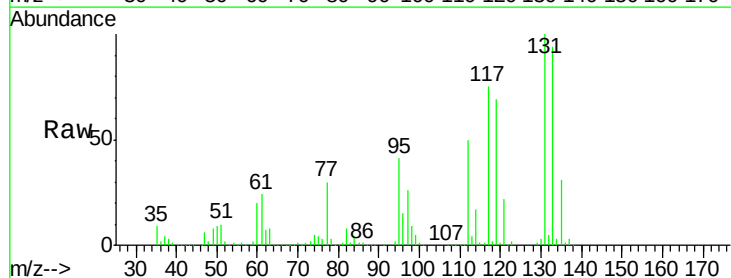
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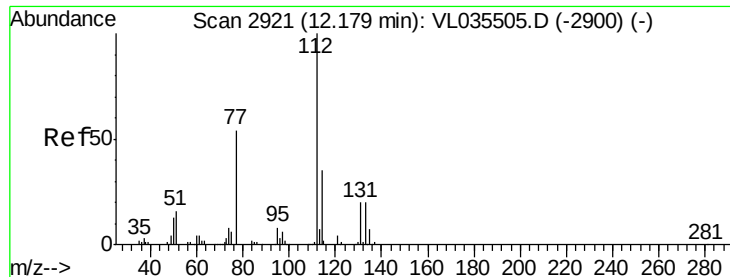


#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.399 ppbv  
RT: 12.12 min Scan# 2902  
Delta R.T. -0.02 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

Tgt Ion:131 Resp: 1776126  
Ion Ratio Lower Upper  
131 100  
133 95.6 76.6 115.0  
119 57.2 51.6 77.4







#57

Chlorobenzene

Concen: 9.474 ppbv

RT: 12.14 min Scan# 2909

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2926787

Ion Ratio Lower Upper

112 100

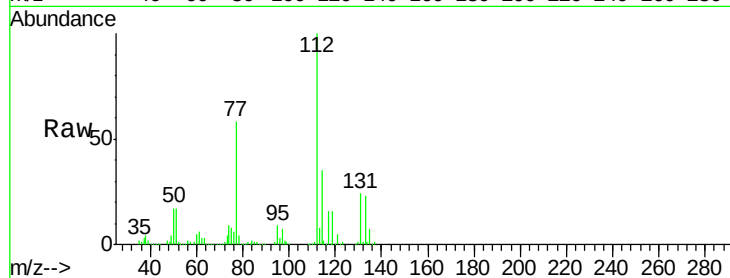
77 57.5 44.2 66.4

114 35.2 31.6 38.6

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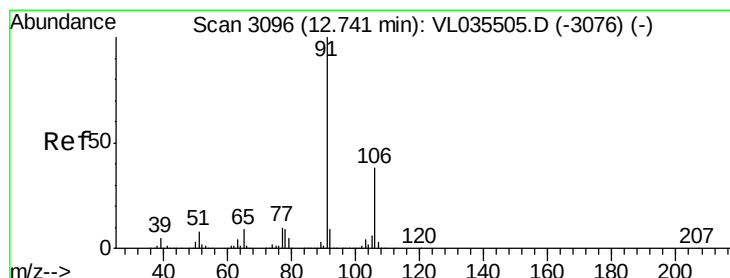
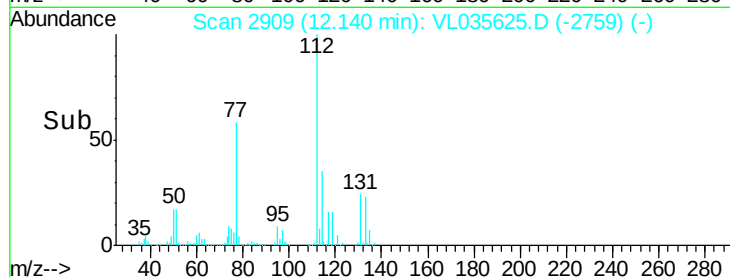
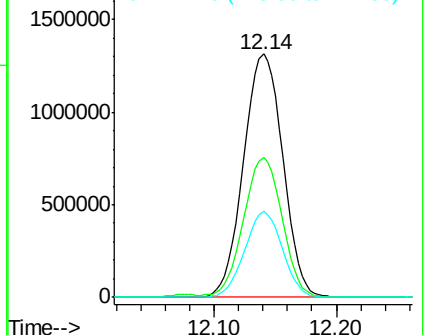
9/17/2020 5:41:16 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.448 ppbv

RT: 12.70 min Scan# 3084

Delta R.T. -0.02 min

Lab File: VL035625.D

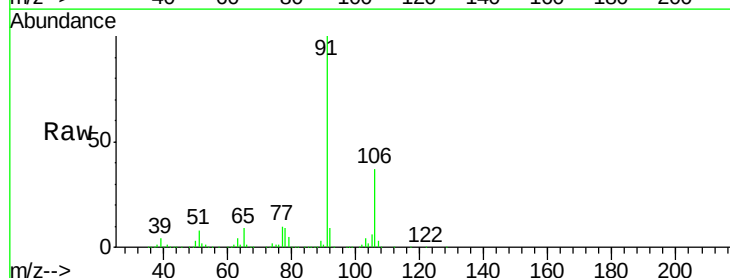
Acq: 15 Sep 2020 8:52

Tgt Ion: 91 Resp: 4522403

Ion Ratio Lower Upper

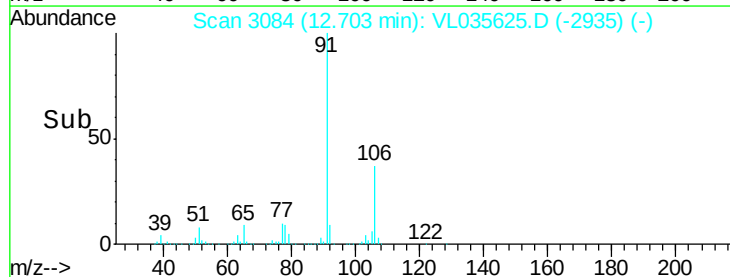
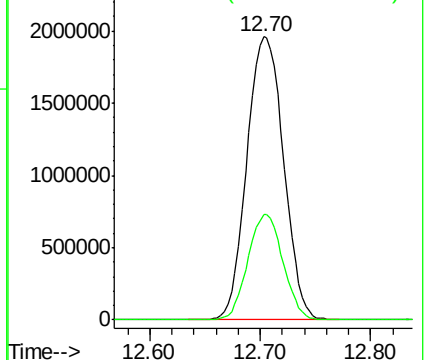
91 100

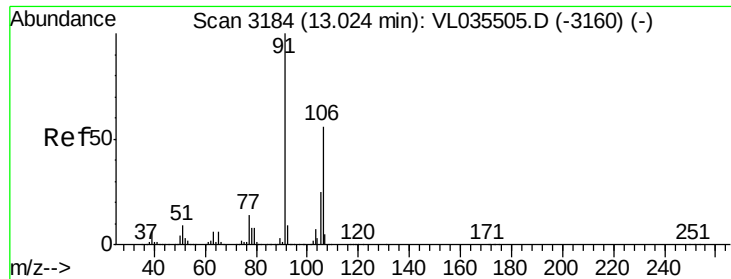
106 37.3 30.3 45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





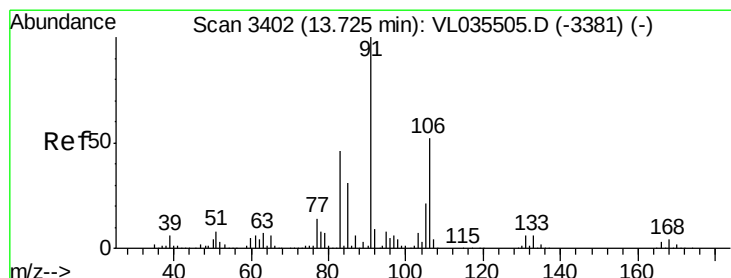
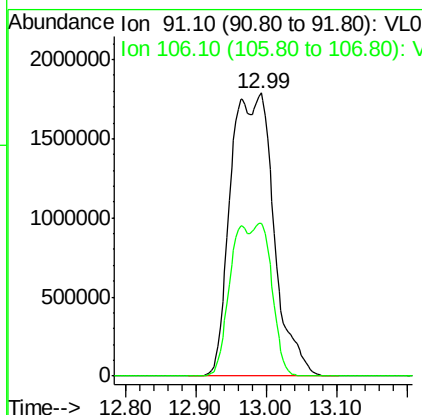
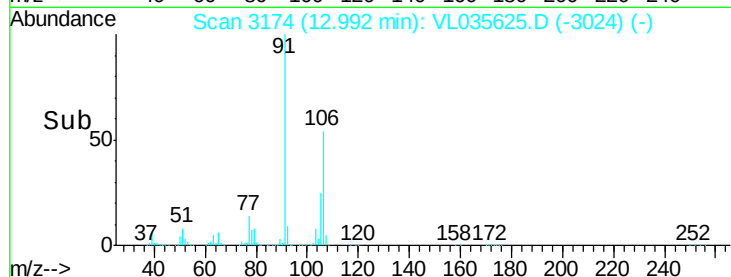
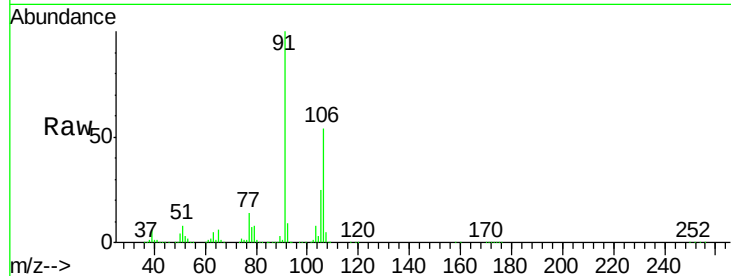
#59  
m/p-Xylene  
Concen: 21.072 ppbv m  
RT: 12.99 min Scan# 3174  
Delta R.T. -0.02 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 91 Resp: 7621859  
Ion Ratio Lower Upper  
91 100  
106 50.7 43.4 65.2

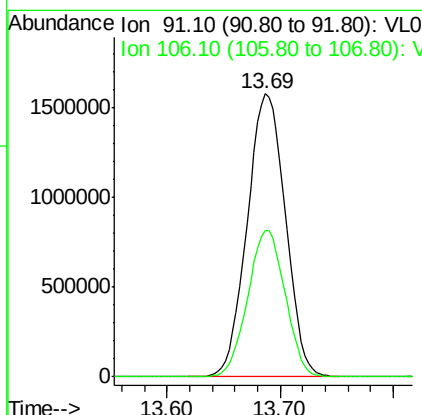
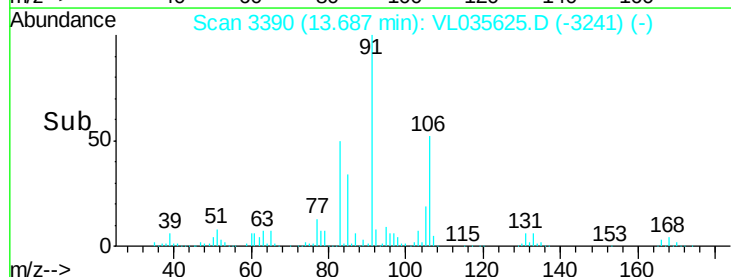
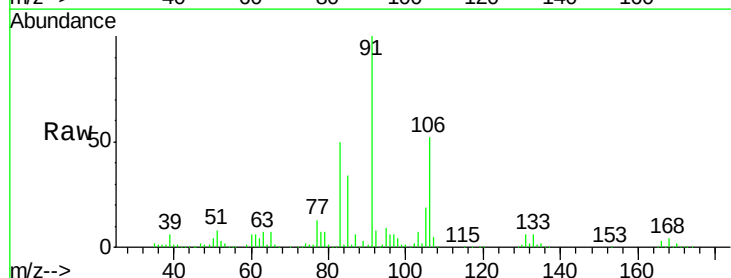
Manual Integrations  
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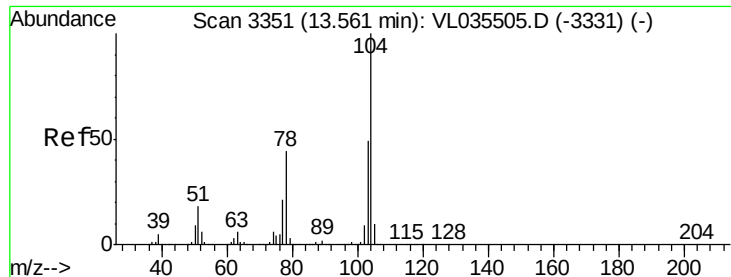
MMDadoda  
9/17/2020 5:41:16 PM



#60  
o-Xylene  
Concen: 10.147 ppbv  
RT: 13.69 min Scan# 3390  
Delta R.T. -0.02 min  
Lab File: VL035625.D  
Acq: 15 Sep 2020 8:52

Tgt Ion: 91 Resp: 3696331  
Ion Ratio Lower Upper  
91 100  
106 50.9 25.8 77.4





#61

Stvrene

Concen: 10.761 ppbv

RT: 13.52 min Scan# 3339

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2998235

Ion Ratio Lower Upper

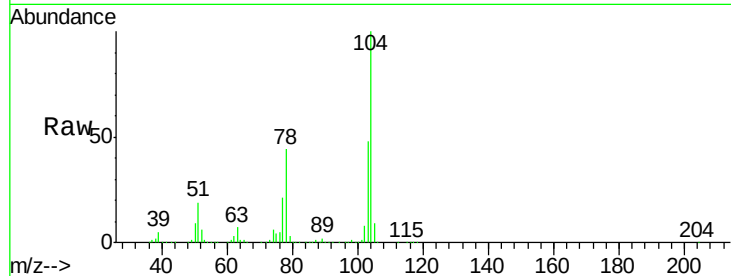
104 100

78 43.9 34.8 52.2

103 47.6 38.2 57.4

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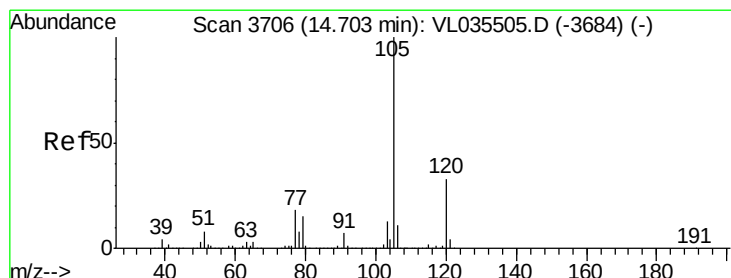
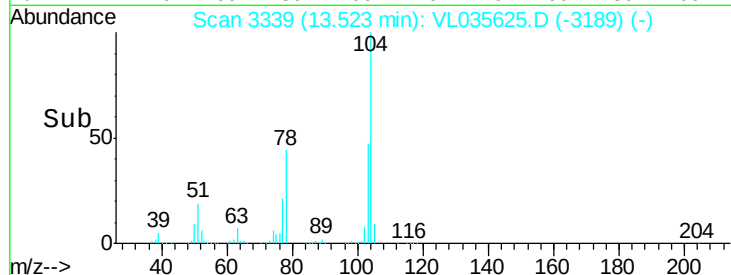
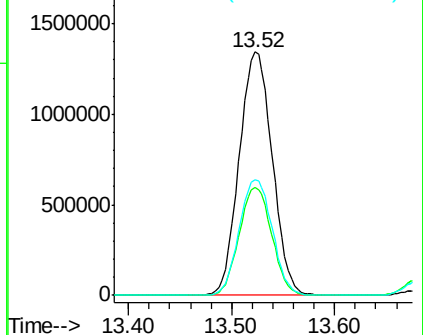
MMDadoda  
9/17/2020 5:41:16 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.785 ppbv

RT: 14.66 min Scan# 3694

Delta R.T. -0.02 min

Lab File: VL035625.D

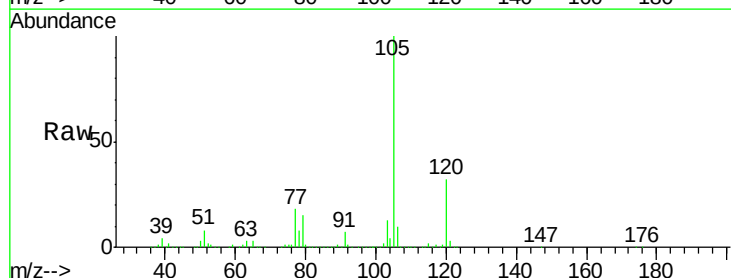
Acq: 15 Sep 2020 8:52

Tgt Ion:105 Resp: 5726074

Ion Ratio Lower Upper

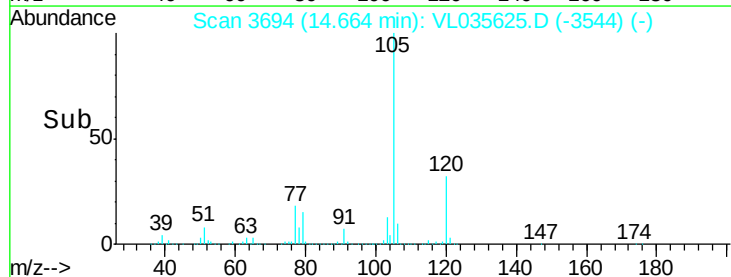
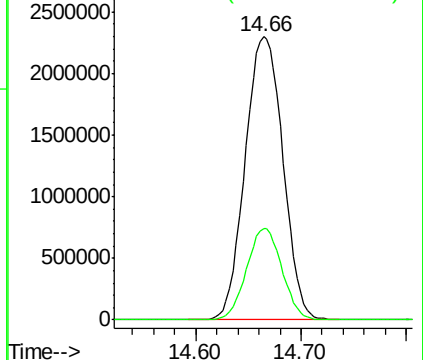
105 100

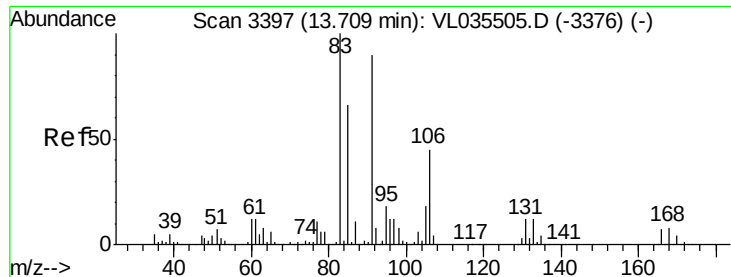
120 30.2 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.358 ppbv

RT: 13.67 min Scan# 3386

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2643125

Ion Ratio Lower Upper

83 100

131 11.4 6.0 18.0

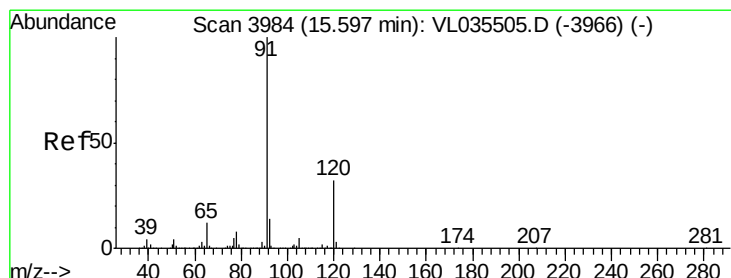
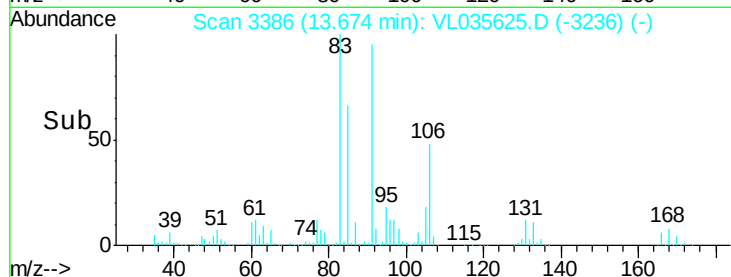
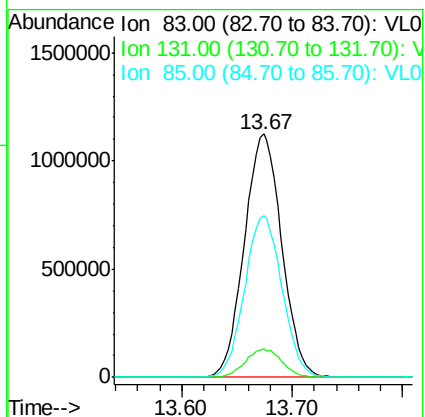
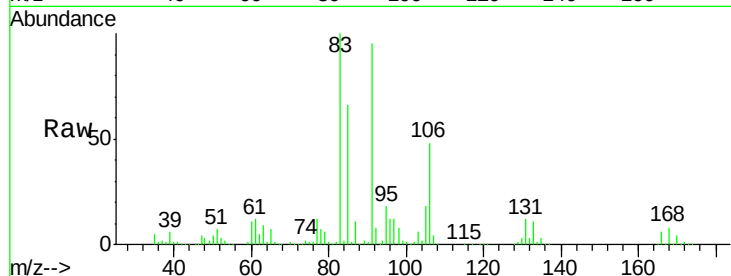
85 66.5 33.4 100.2

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#64

n-propylbenzene

Concen: 9.878 ppbv

RT: 15.56 min Scan# 3973

Delta R.T. -0.02 min

Lab File: VL035625.D

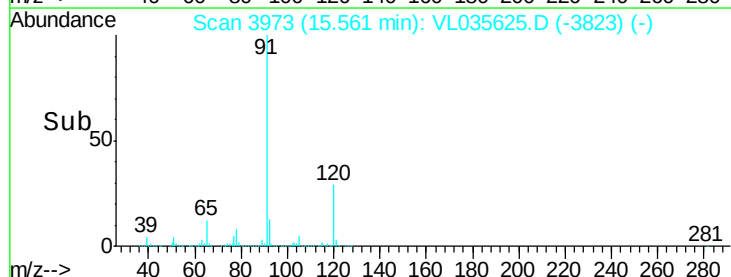
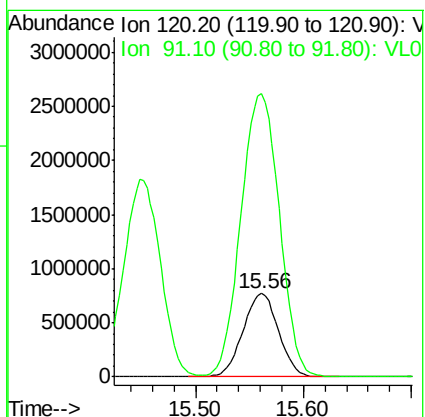
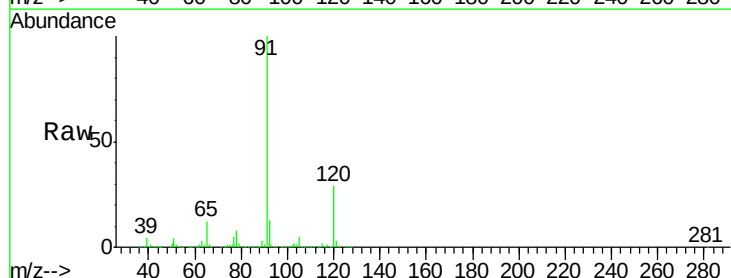
Acq: 15 Sep 2020 8:52

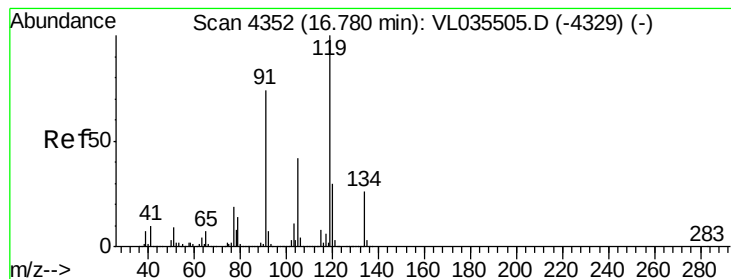
Tgt Ion: 120 Resp: 1764023

Ion Ratio Lower Upper

120 100

91 369.5 279.4 419.0





#65

tert-Butylbenzene

Concen: 9.859 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 5363191

Ion Ratio Lower Upper

119 100

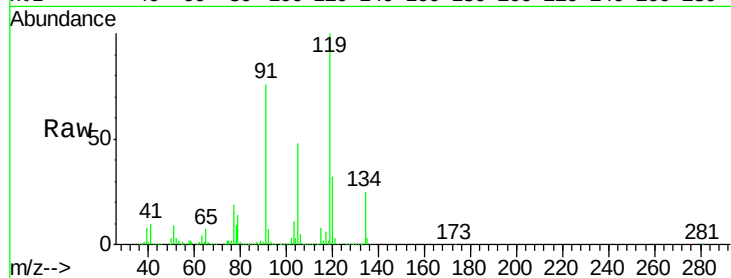
91 74.7 58.6 87.8

134 22.7 18.9 28.3

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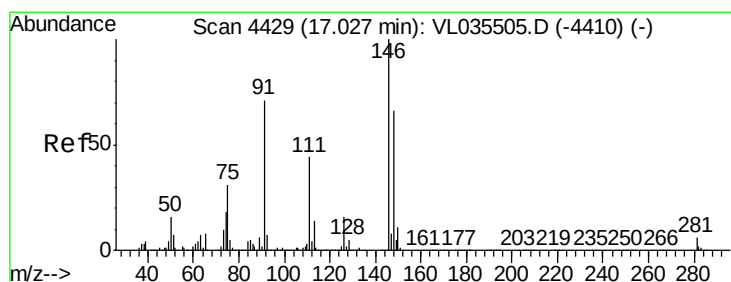
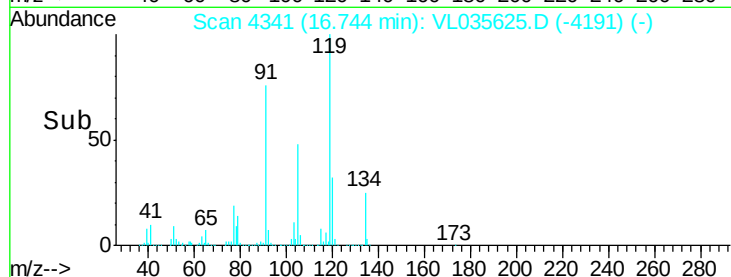
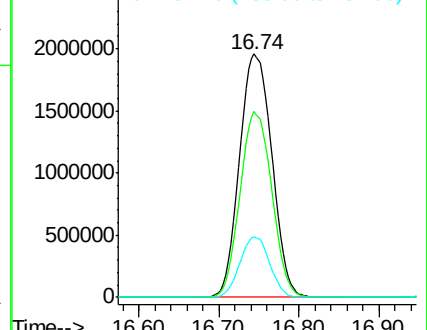
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.461 ppbv

RT: 16.99 min Scan# 4417

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

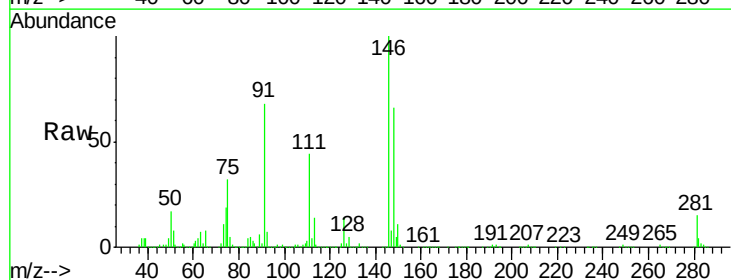
Tgt Ion: 91 Resp: 1684677

Ion Ratio Lower Upper

91 100

126 20.0 17.2 25.8

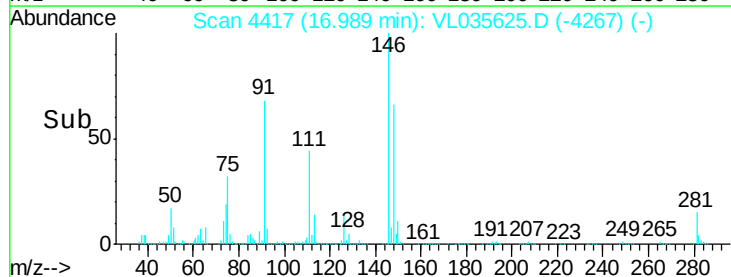
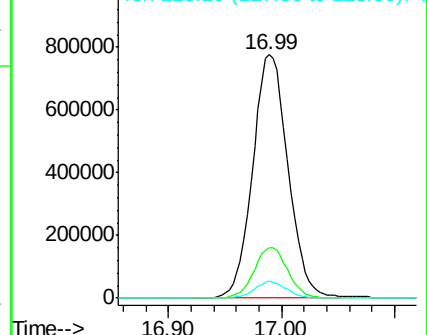
128 6.3 5.5 8.3

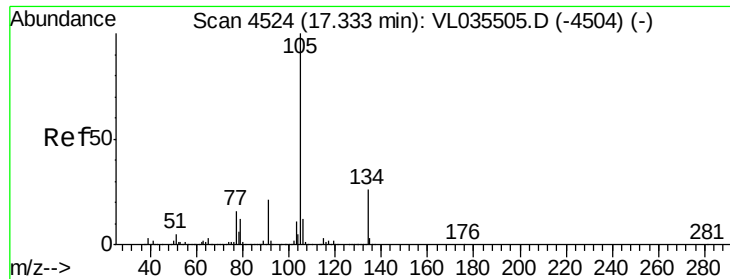


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.771 ppbv

RT: 17.29 min Scan# 4512

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 7081211

Ion Ratio Lower Upper

105 100

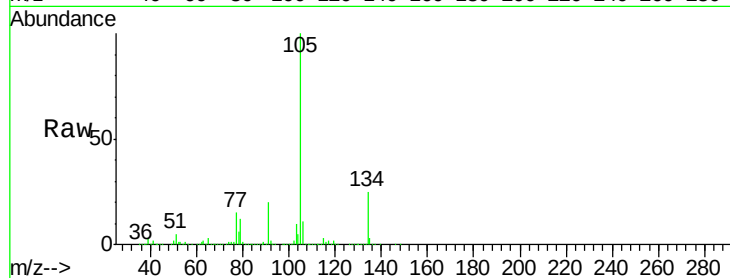
134 22.4 19.1 28.7

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.29

3000000

2500000

2000000

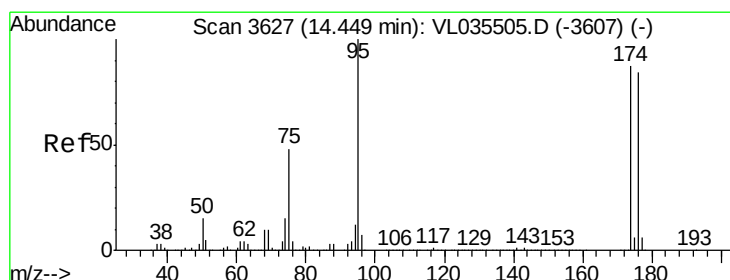
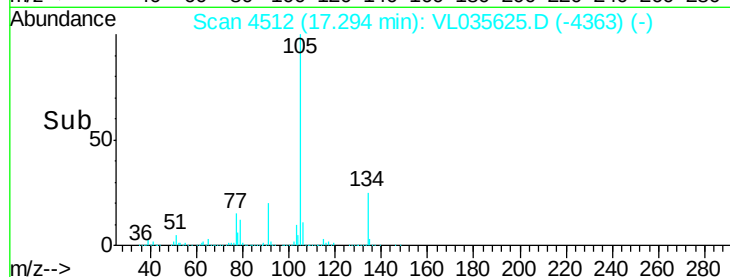
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.948 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

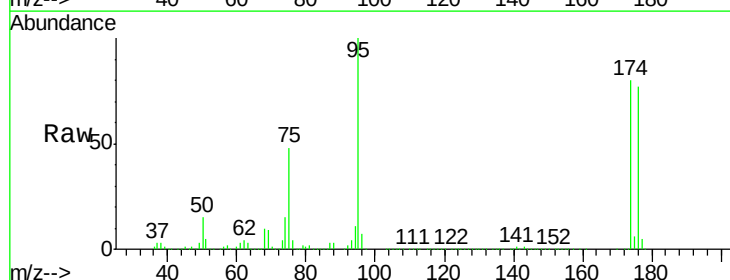
Tgt Ion: 95 Resp: 2965493

Ion Ratio Lower Upper

95 100

174 80.5 69.6 104.4

175 5.8 5.1 7.7



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.41

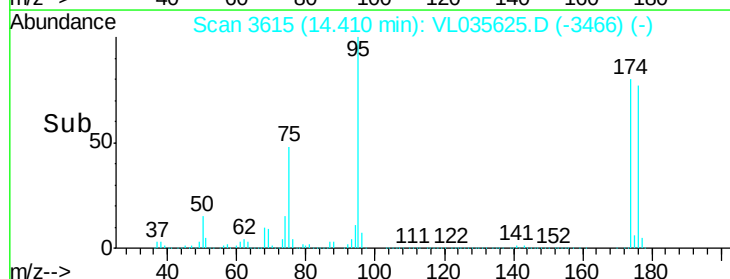
1500000

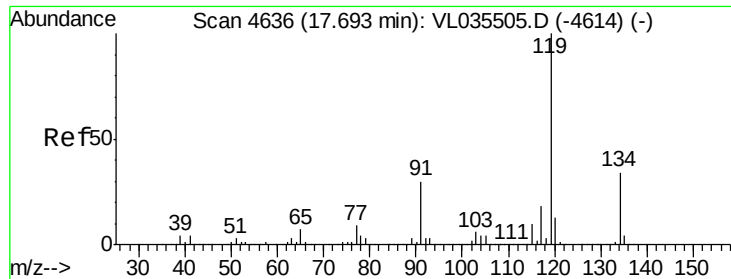
1000000

500000

0

Time-->





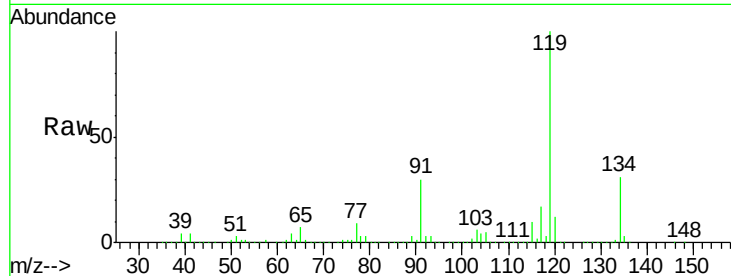
#69  
 p-Isopropyltoluene  
 Concen: 9.530 ppbv  
 RT: 17.65 min Scan# 4624  
 Delta R.T. -0.02 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

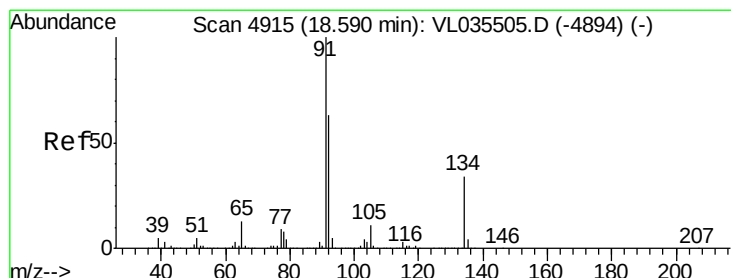
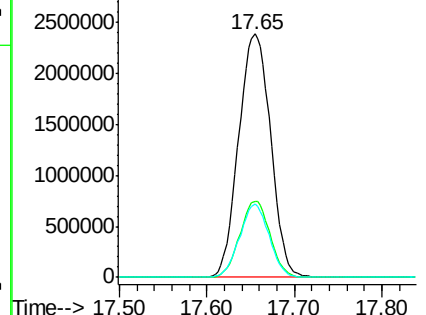
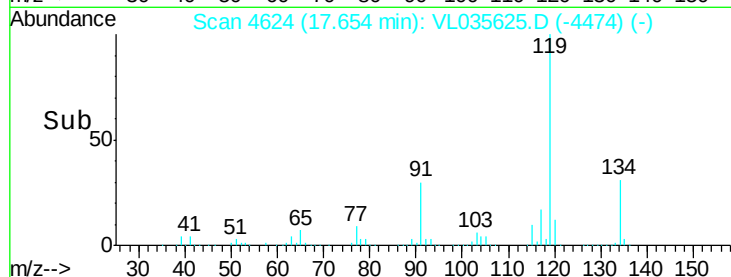
Tot Ion: 119 Resp: 6058303  
 Ion Ratio Lower Upper  
 119 100  
 134 29.6 25.0 37.4  
 91 27.7 22.3 33.5

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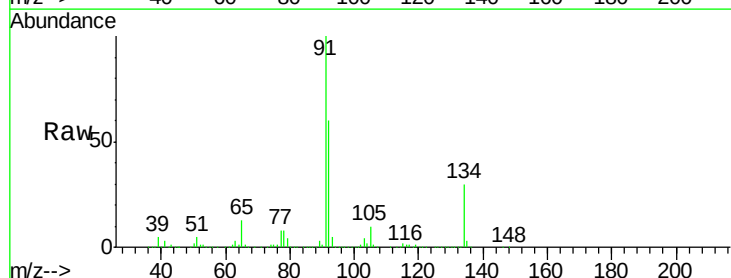


Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V

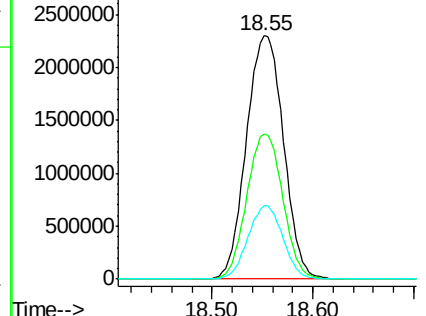
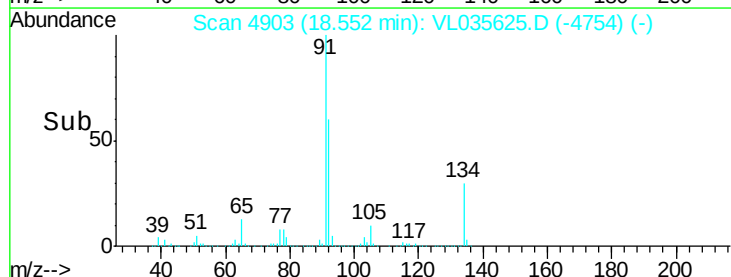


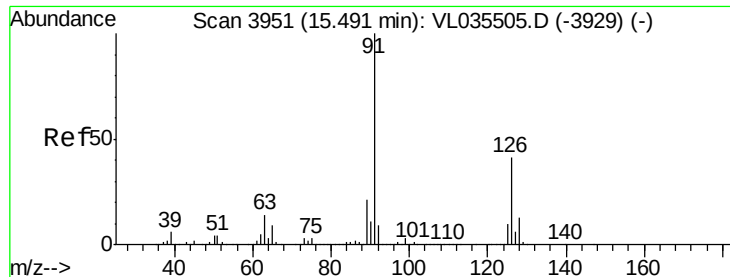
#70  
 n-Butylbenzene  
 Concen: 9.580 ppbv  
 RT: 18.55 min Scan# 4903  
 Delta R.T. -0.02 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

Tgt Ion: 91 Resp: 5866539  
 Ion Ratio Lower Upper  
 91 100  
 92 57.8 47.3 70.9  
 134 28.3 24.6 37.0



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: 10.149 ppbv

RT: 15.45 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4325189

Ion Ratio Lower Upper

91 100

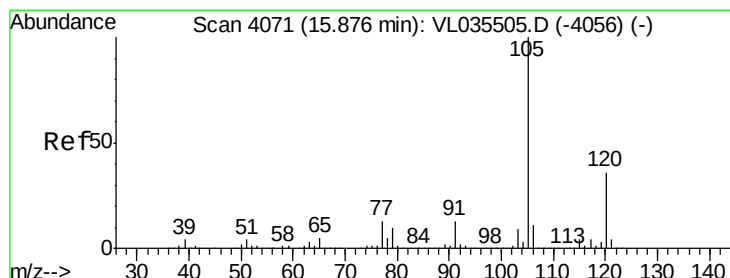
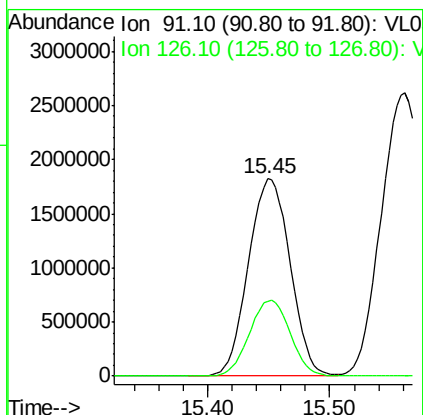
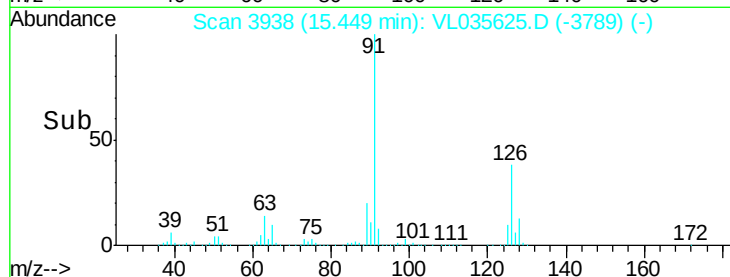
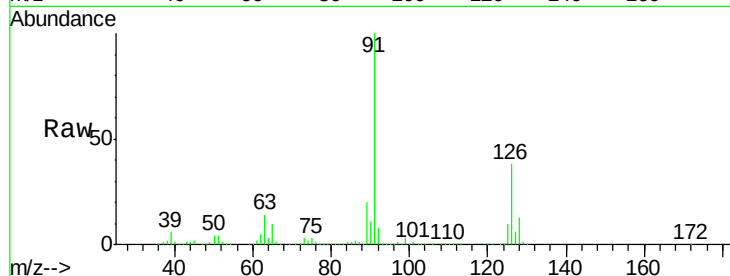
126 37.5 15.6 62.6

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#72

4-Ethyltoluene

Concen: 10.054 ppbv

RT: 15.84 min Scan# 4059

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Tgt Ion: 105 Resp: 4656151

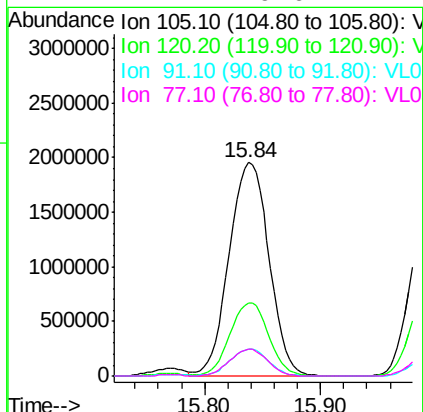
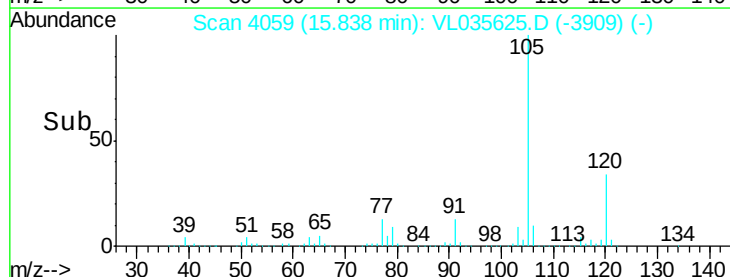
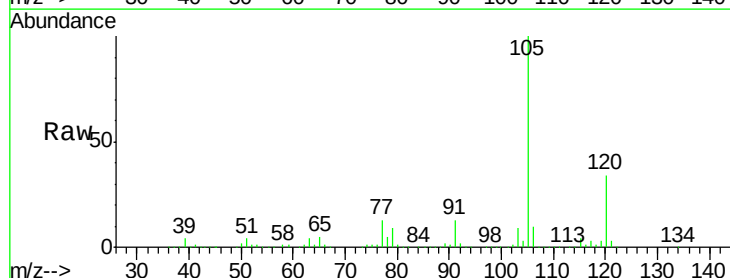
Ion Ratio Lower Upper

105 100

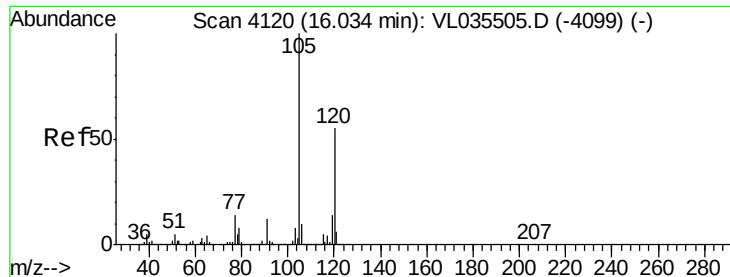
120 33.5 27.4 41.2

91 12.1 9.7 14.5

77 12.1 9.6 14.4







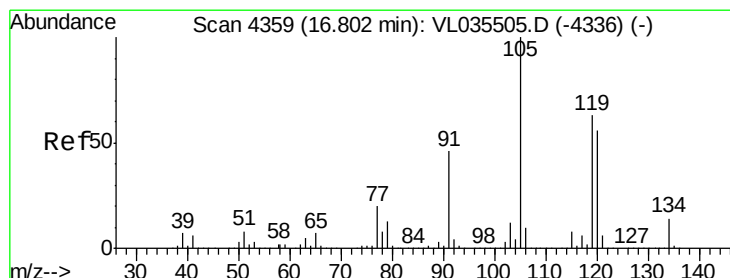
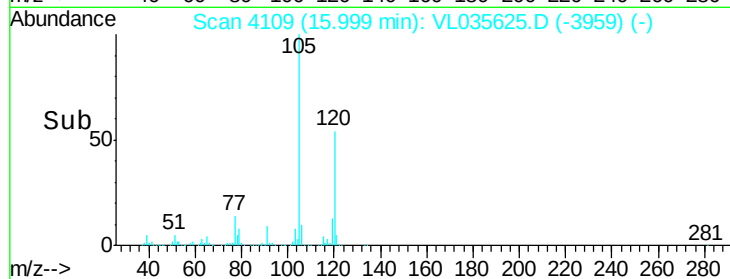
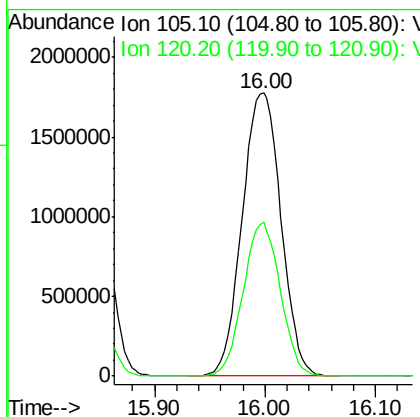
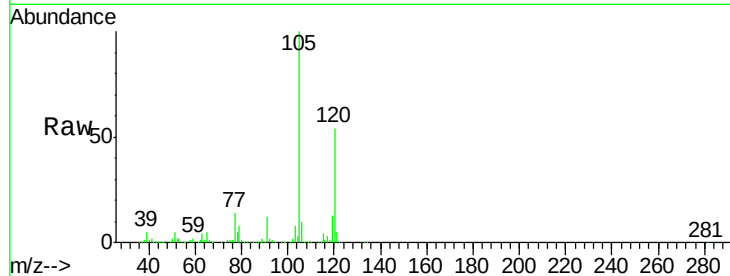
#73  
 1,3,5-Trimethylbenzene  
 Concen: 10.068 ppbv  
 RT: 16.00 min Scan# 4109  
 Delta R.T. -0.02 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:105 Resp: 4312660  
 Ion Ratio Lower Upper  
 105 100  
 120 54.3 44.2 66.2

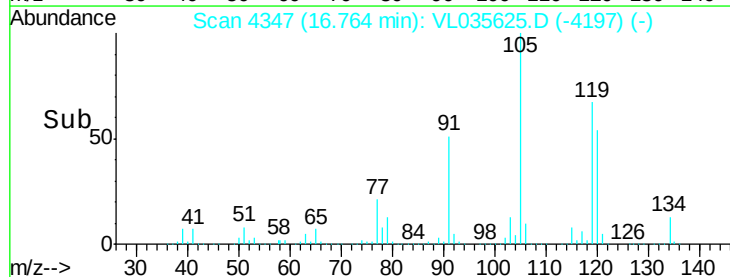
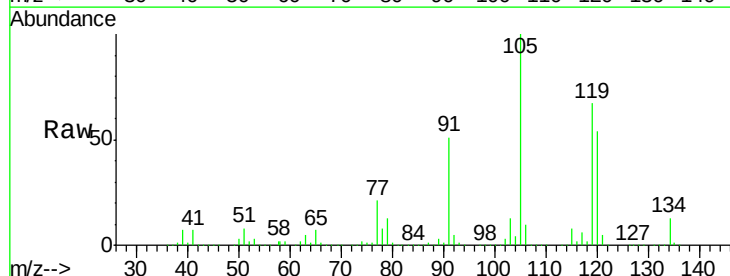
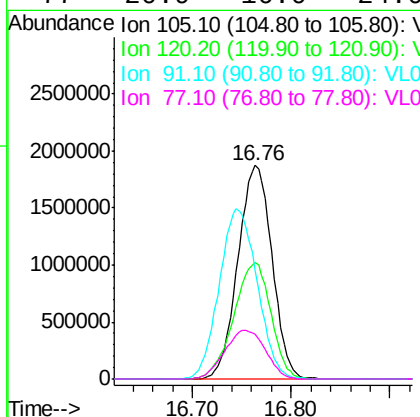
Manual Integrations  
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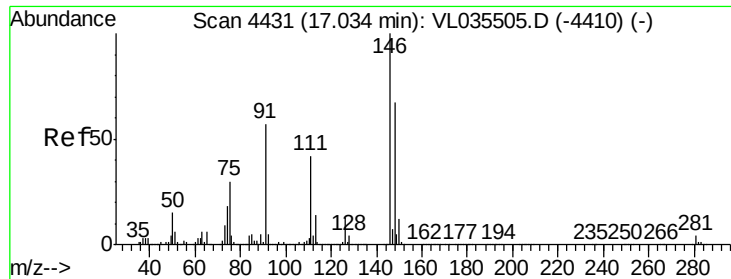
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#74  
 1,2,4-Trimethylbenzene  
 Concen: 9.533 ppbv  
 RT: 16.76 min Scan# 4347  
 Delta R.T. -0.02 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

Tgt Ion:105 Resp: 4484558  
 Ion Ratio Lower Upper  
 105 100  
 120 54.3 44.4 66.6  
 91 50.6 37.1 55.7  
 77 20.9 16.0 24.0





#75

1,3-Dichlorobenzene

Concen: 8.836 ppbv

RT: 17.00 min Scan# 4419

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 3078993

Ion Ratio Lower Upper

146 100

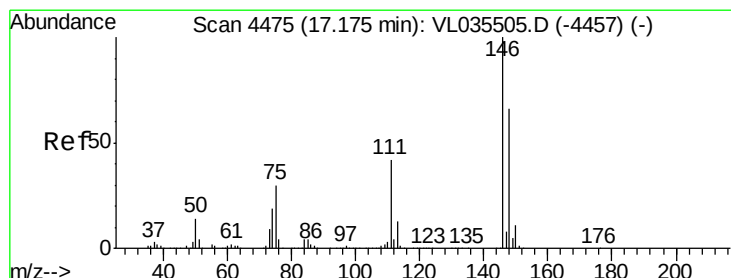
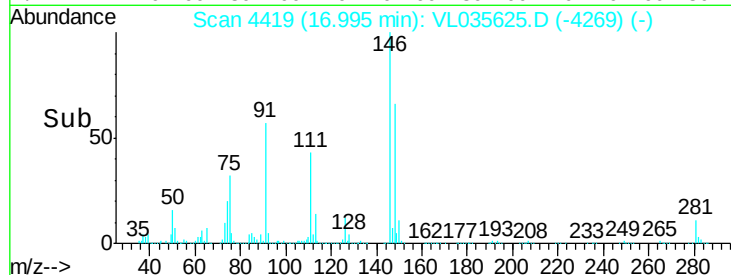
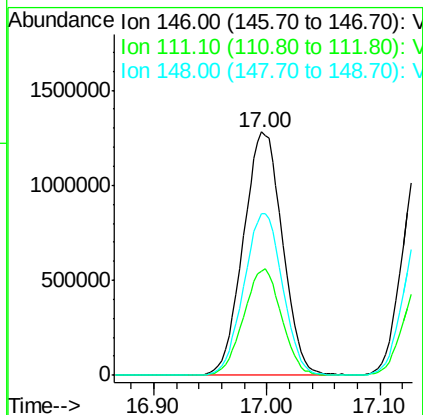
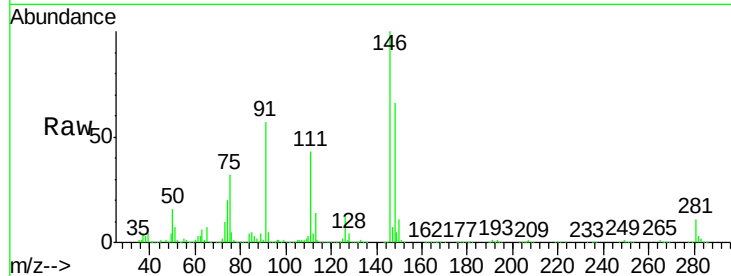
111 42.5 20.7 62.1

148 65.9 33.0 98.9

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#76

1,4-Dichlorobenzene

Concen: 9.000 ppbv

RT: 17.14 min Scan# 4464

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

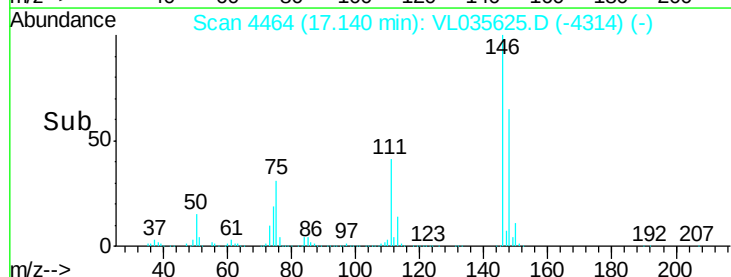
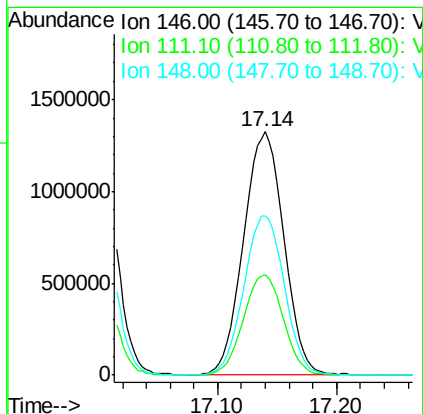
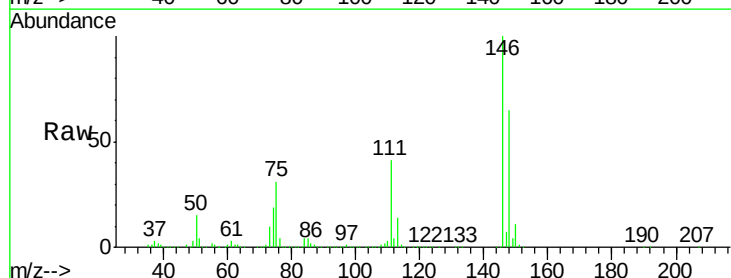
Tgt Ion:146 Resp: 3092863

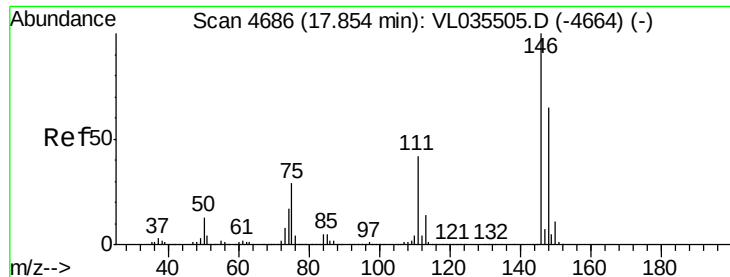
Ion Ratio Lower Upper

146 100

111 41.3 20.0 60.0

148 66.1 33.2 99.6





#77

1,2-Dichlorobenzene

Concen: 8.973 ppbv

RT: 17.82 min Scan# 4675

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 3029283

Ion Ratio Lower Upper

146 100

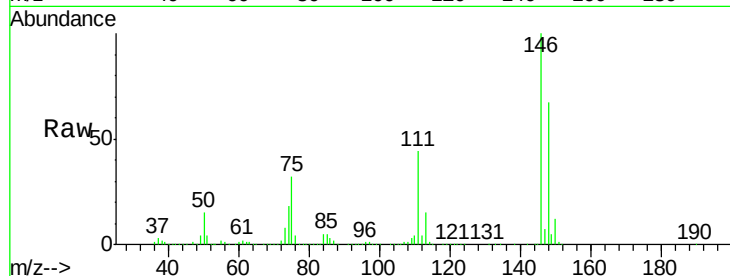
111 43.3 21.1 63.3

148 65.6 32.9 98.7

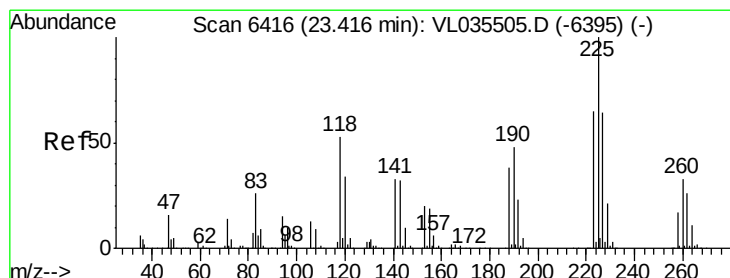
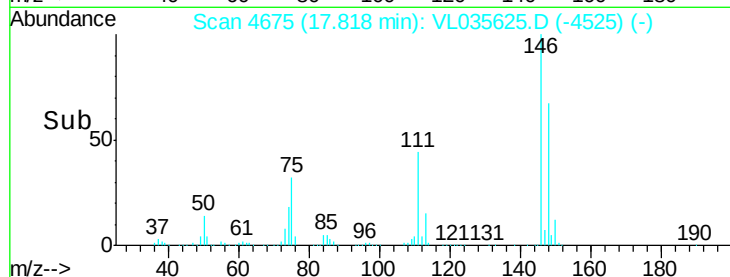
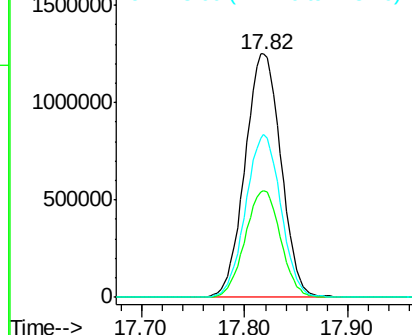
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Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.10 (110.80 to 111.80): V  
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.851 ppbv

RT: 23.38 min Scan# 6405

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

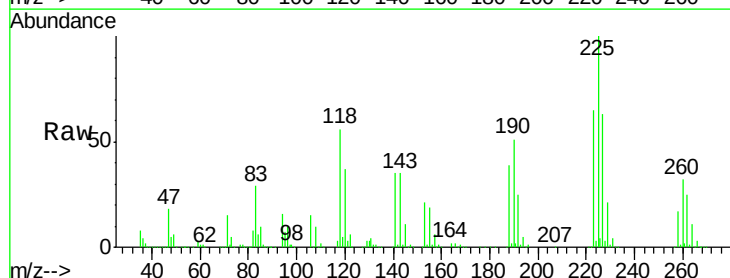
Tgt Ion:225 Resp: 1692129

Ion Ratio Lower Upper

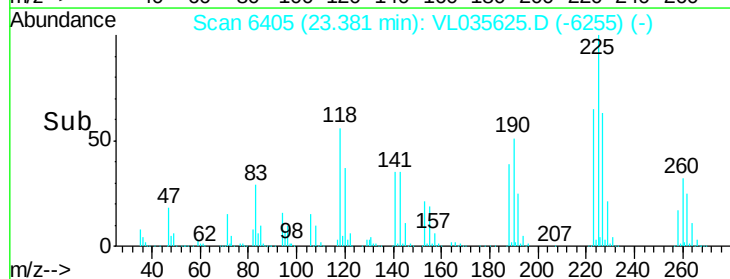
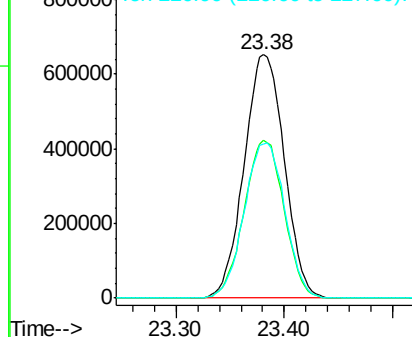
225 100

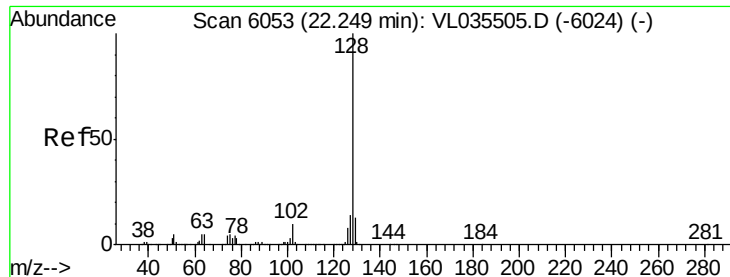
223 64.4 51.7 77.5

227 64.4 51.5 77.3



Abundance Ion 224.90 (224.60 to 225.60): V  
Ion 222.90 (222.60 to 223.60): V  
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.197 ppbv

RT: 22.20 min Scan# 6038

Delta R.T. -0.02 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 4800750

Ion Ratio Lower Upper

128 100

127 13.4 11.4 17.2

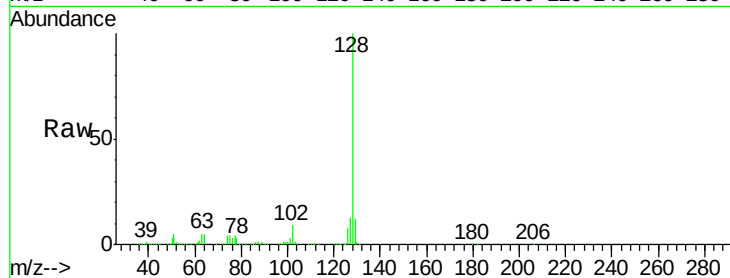
129 12.2 10.5 15.7

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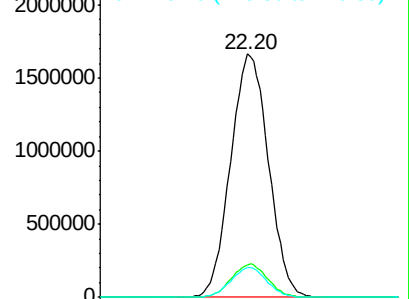
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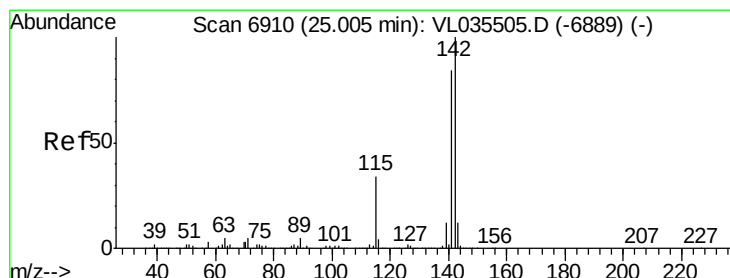
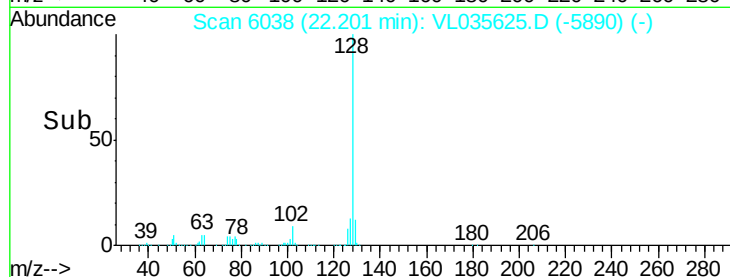
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



Time-->



#80

Naphthalene, 2-methyl-

Concen: 8.038 ppbv

RT: 24.98 min Scan# 6902

Delta R.T. -0.01 min

Lab File: VL035625.D

Acq: 15 Sep 2020 8:52

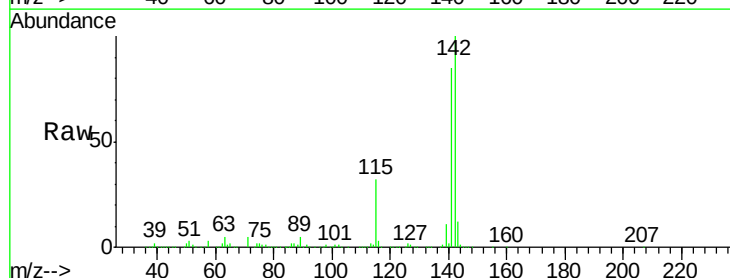
Tgt Ion:142 Resp: 1432033

Ion Ratio Lower Upper

142 100

141 84.1 67.6 101.4

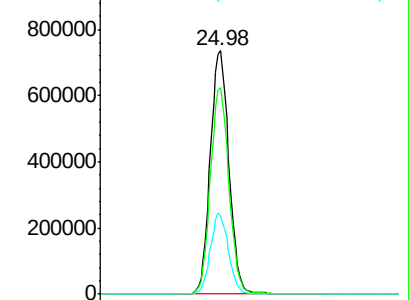
115 32.2 25.8 38.8



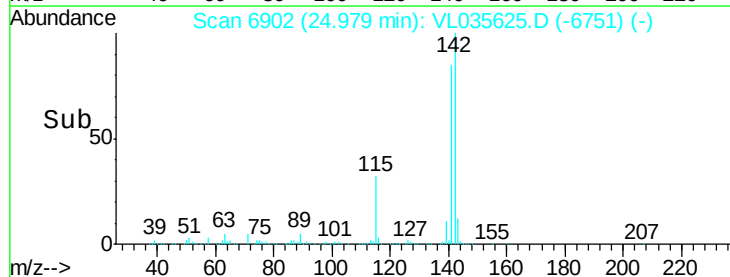
Abundance Ion 142.00 (141.70 to 142.70): V

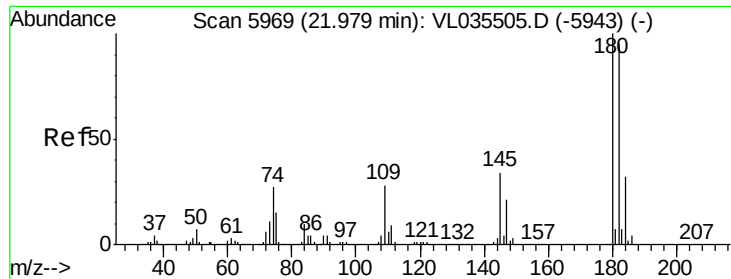
Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



Time-->





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.213 ppbv  
 RT: 21.93 min Scan# 5955  
 Delta R.T. -0.02 min  
 Lab File: VL035625.D  
 Acq: 15 Sep 2020 8:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 180     | 100  |       |       |       |
| 182     | 95.8 | 76.3  | 114.5 |       |
| 184     | 31.1 | 25.3  | 37.9  |       |

Manual Integrations  
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