

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL022621\  
 Data File : VL036406.D  
 Acq On : 26 Feb 2021 17:31  
 Operator : SY/AP  
 Sample : VL0226ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0226ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 3/1/2021 10:08:35 AM

Quant Time: Feb 27 04:05:45 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb 10 16:04:02 2021  
 QLast Update : Wed Feb 10 16:04:02 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 1448760  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3395483  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.05 | 117  | 3450844m | 10.00 | ppbv  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2640924  | 9.30     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 93.00% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.02 | 85   | 2326132  | 10.758 | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.97 | 51   | 1986805  | 11.037 | ppbv   | 100    |
| 4) Chloromethane               | 3.11 | 50   | 1003877  | 11.543 | ppbv   | 99     |
| 5) Vinyl Chloride              | 3.23 | 62   | 998557   | 12.331 | ppbv   | 98     |
| 6) Bromomethane                | 3.45 | 94   | 551145   | 11.450 | ppbv   | 94     |
| 7) Chloroethane                | 3.53 | 64   | 346373   | 12.046 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane   | 3.16 | 85   | 2274207  | 11.565 | ppbv   | 97     |
| 9) Propene                     | 2.99 | 41   | 890987   | 13.276 | ppbv   | 96     |
| 10) Heptane                    | 8.09 | 43   | 2359865  | 11.931 | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.93 | 101  | 2379717  | 11.240 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.46 | 101  | 1580782  | 12.053 | ppbv   | 100    |
| 13) Ethanol                    | 3.58 | 45   | 130222m  | 10.330 | ppbv   |        |
| 14) Bromoethene                | 3.71 | 108  | 677190   | 12.337 | ppbv   | 97     |
| 15) Acetone                    | 3.83 | 43   | 1930763  | 10.903 | ppbv   | 98     |
| 16) 1,3-Butadiene              | 3.30 | 39   | 969233   | 11.446 | ppbv   | 99     |
| 17) tert-Butyl alcohol         | 4.27 | 59   | 1605468  | 11.679 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.26 | 96   | 674288   | 11.313 | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 3.94 | 45   | 1006507  | 10.259 | ppbv # | 97     |
| 20) Methylene Chloride         | 4.32 | 84   | 580127   | 10.154 | ppbv   | 93     |
| 21) Allyl Chloride             | 4.38 | 41   | 1136293  | 11.524 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96   | 665241   | 12.287 | ppbv   | 90     |
| 23) Vinyl Acetate              | 5.04 | 43   | 2453701  | 11.784 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 4.98 | 63   | 1792878  | 11.642 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.65 | 43   | 4011901  | 11.735 | ppbv   | 99     |
| 26) Hexane                     | 5.66 | 57   | 1604086  | 11.419 | ppbv   | 99     |
| 27) Carbon Disulfide           | 4.52 | 76   | 1754580  | 13.591 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73   | 2248262  | 12.252 | ppbv   | 100    |
| 29) Chloroform                 | 5.73 | 83   | 2567247  | 11.344 | ppbv   | 99     |
| 30) Cyclohexane                | 7.10 | 84   | 1317518  | 11.278 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.52 | 61   | 1618235  | 11.643 | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane      | 6.48 | 97   | 2499284  | 11.813 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.22 | 43   | 2498302  | 11.074 | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 6.99 | 117  | 2536719  | 11.147 | ppbv   | 98     |
| 36) Benzene                    | 6.86 | 78   | 3360959  | 11.652 | ppbv   | 96     |
| 37) 1,2-Dichloroethane         | 6.28 | 62   | 2004575  | 11.241 | ppbv   | 99     |
| 38) Trichloroethene            | 7.81 | 130  | 1143775  | 11.069 | ppbv   | 93     |
| 39) 1,2-Dichloropropane        | 7.58 | 63   | 1340616  | 11.442 | ppbv   | 98     |
| 40) 1,4-Dioxane                | 7.80 | 88   | 440977   | 10.863 | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.02 | 42   | 1520191  | 12.075 | ppbv   | 98     |
| 42) Bromodichloromethane       | 7.76 | 83   | 2689557  | 11.261 | ppbv   | 99     |
| 43) Methyl Methacrylate        | 7.98 | 69   | 1472581  | 12.106 | ppbv   | 99     |

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 Sample : VL0226ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0226ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 3/1/2021 10:08:35 AM

Quant Time: Feb 27 04:05:45 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb 10  
 QLast Update : Wed Feb 10 16:04:02 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.84  | 57   | 5724640  | 10.915 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.25  | 75   | 1555434  | 13.255 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.67  | 75   | 1914060  | 12.841 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.45  | 97   | 1314015  | 10.958 | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.28 | 129  | 2166785  | 12.110 | ppbv   | 100      |
| 49) Bromoform                 | 13.01 | 173  | 1719637  | 11.888 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.71  | 43   | 3839312  | 11.463 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.10 | 43   | 3100451  | 12.183 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.19 | 164  | 1081831m | 10.245 | ppbv   |          |
| 53) Toluene                   | 9.77  | 91   | 3659527  | 11.713 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.58 | 107  | 1935746  | 11.171 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.10 | 131  | 1617735  | 10.192 | ppbv # | 64       |
| 57) Chlorobenzene             | 12.12 | 112  | 2605239  | 9.771  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.68 | 91   | 4911994  | 10.395 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.96 | 91   | 8279365m | 19.948 | ppbv   |          |
| 60) o-Xylene                  | 13.66 | 91   | 3878351  | 9.773  | ppbv   | 99       |
| 61) Styrene                   | 13.50 | 104  | 2765983  | 11.246 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.64 | 105  | 5773664  | 9.706  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.65 | 83   | 2696089  | 8.610  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.53 | 120  | 1503195  | 10.268 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 16.72 | 119  | 4897641  | 9.623  | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.96 | 91   | 1649290  | 11.920 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.27 | 105  | 6975340  | 9.503  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.63 | 119  | 5684377  | 10.021 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.52 | 91   | 6037751  | 9.926  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.42 | 91   | 4446580  | 9.751  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.81 | 105  | 4445963  | 10.067 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.97 | 105  | 4234293  | 9.891  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.73 | 105  | 4246186  | 9.715  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 16.97 | 146  | 2274950  | 9.590  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.11 | 146  | 2238499  | 9.087  | ppbv   | 95       |
| 77) 1,2-Dichlorobenzene       | 17.79 | 146  | 2251200  | 9.566  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.35 | 225  | 1808378  | 9.405  | ppbv   | 99       |
| 79) Naphthalene               | 22.16 | 128  | 3539968  | 13.664 | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 24.95 | 142  | 605391   | 12.620 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.89 | 180  | 1842132  | 11.654 | ppbv   | 99       |

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

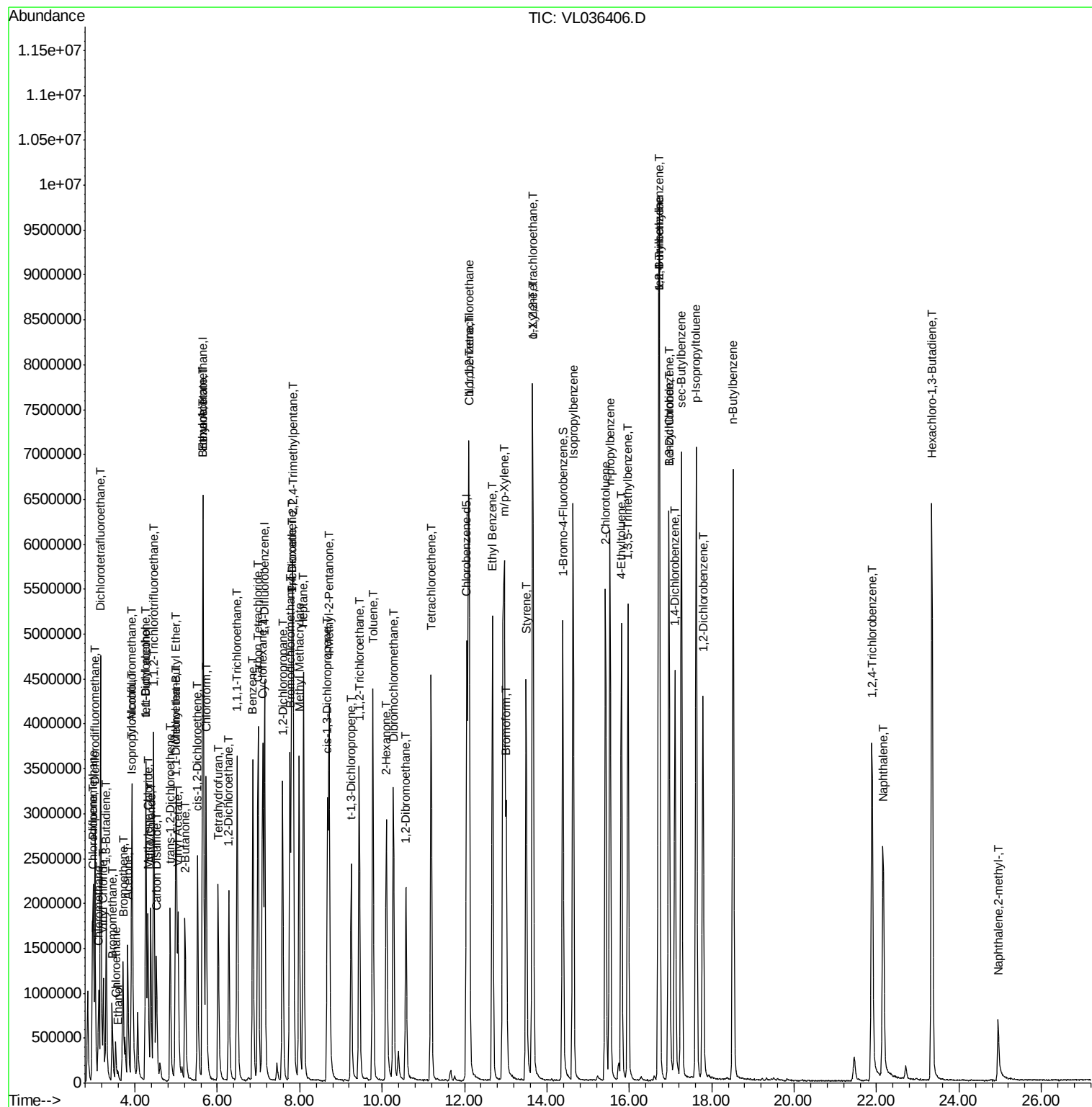
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL022621\  
Data File : VL036406.D  
Acq On : 26 Feb 2021 17:31  
Operator : SY/AP  
Sample : VL0226ABS01  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

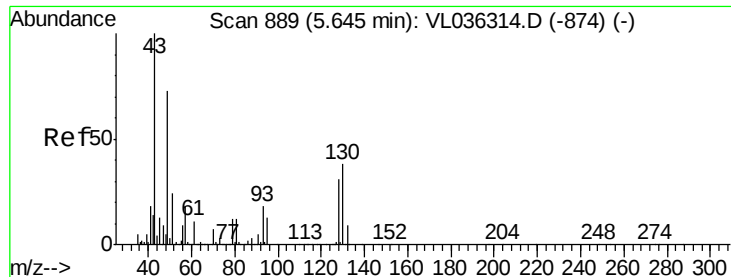
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

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3/1/2021 10:08:35 AM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb  
QLast Update : Wed Feb 10 16:04:02 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 49 Resp: 1448760

Ion Ratio Lower Upper

49 100

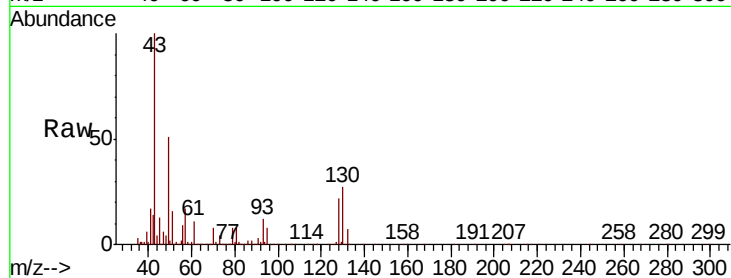
128 43.6 20.8 62.5

130 55.6 26.7 80.1

Manual Integrations  
APPROVED

MMDadoda

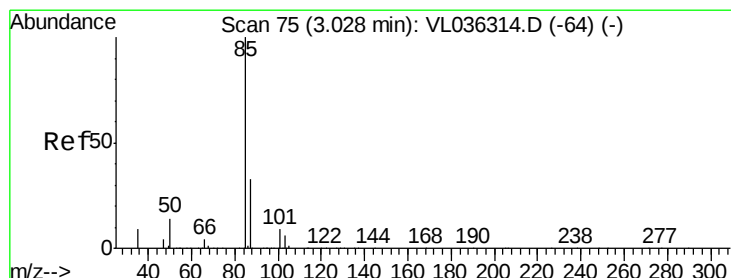
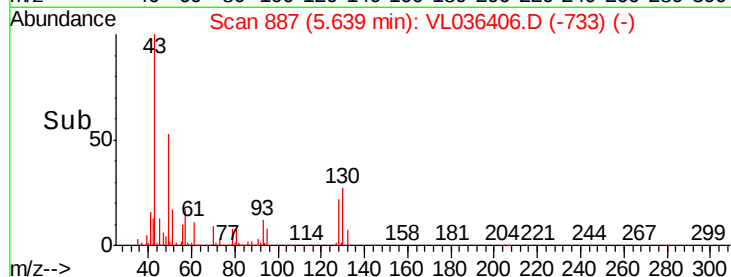
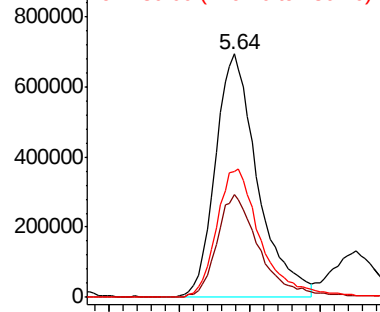
3/1/2021 10:08:35 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 10.758 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL036406.D

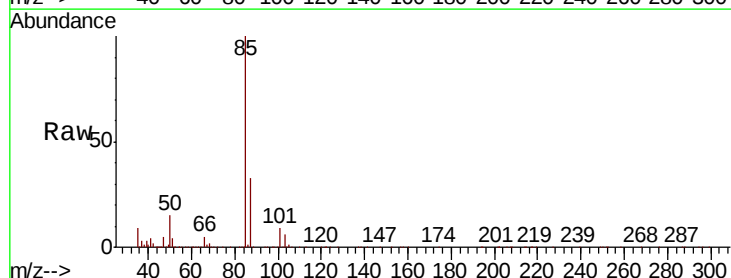
Acq: 26 Feb 2021 17:31

Tgt Ion: 85 Resp: 2326132

Ion Ratio Lower Upper

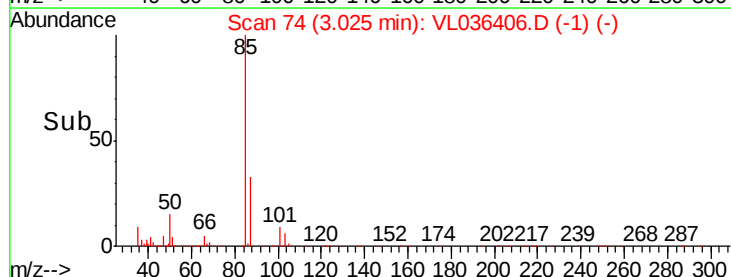
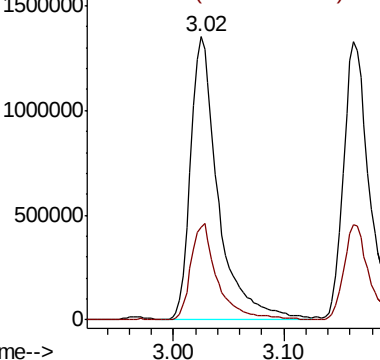
85 100

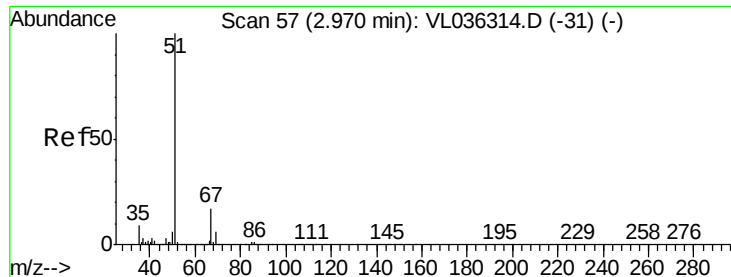
87 32.7 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 11.037 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.00 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 51 Resp: 1986805

Ion Ratio Lower Upper

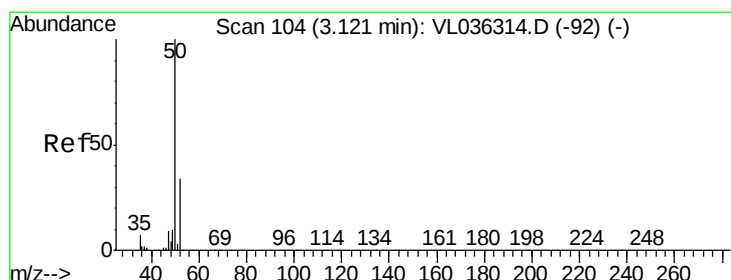
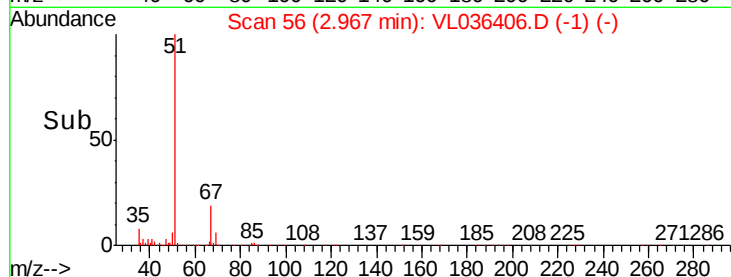
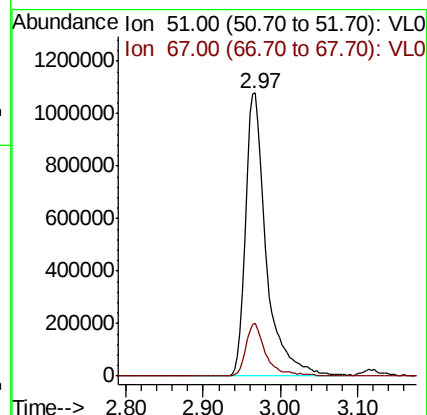
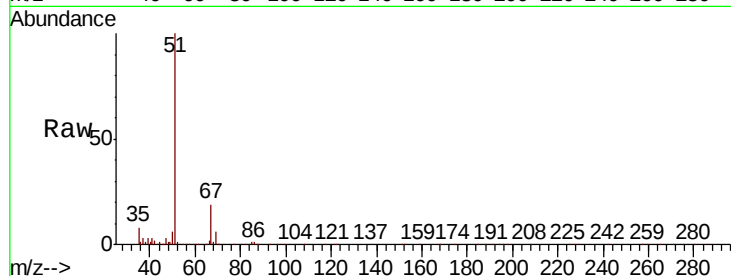
51 100

67 18.2 14.7 22.1

Manual Integrations  
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3/1/2021 10:08:35 AM



#4

Chloromethane

Concen: 11.543 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.01 min

Lab File: VL036406.D

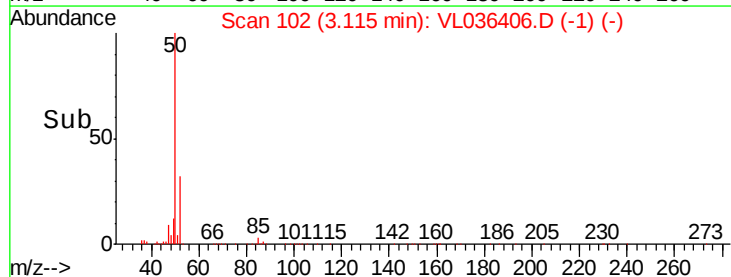
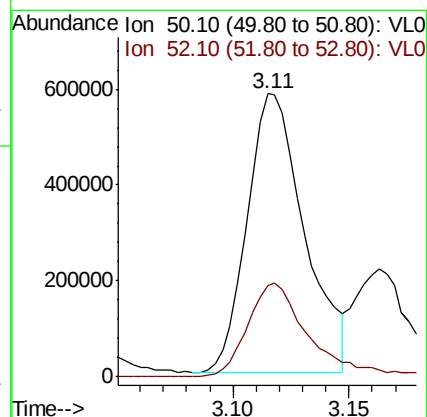
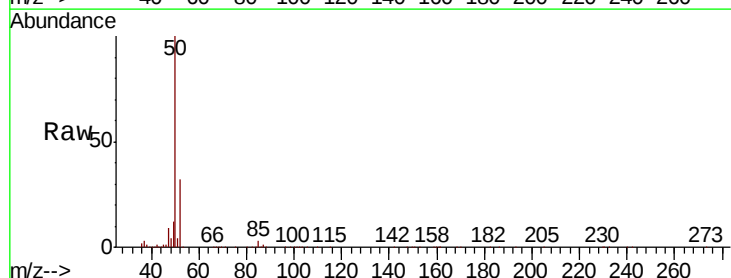
Acq: 26 Feb 2021 17:31

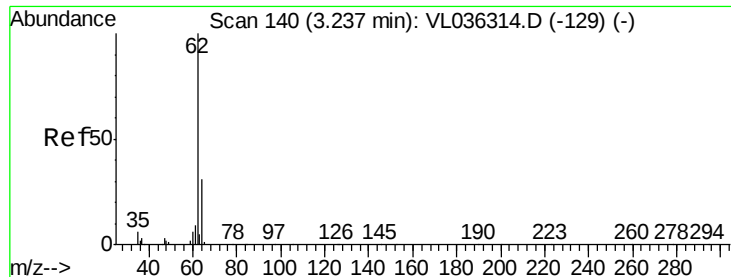
Tgt Ion: 50 Resp: 1003877

Ion Ratio Lower Upper

50 100

52 32.9 27.0 40.4





#5

Vinyl Chloride

Concen: 12.331 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.00 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 62 Resp: 998557

Ion Ratio Lower Upper

62 100

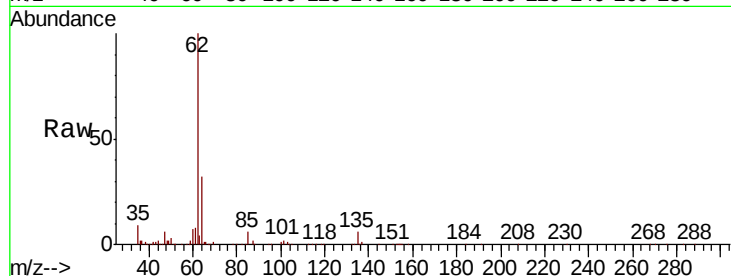
64 31.7 24.4 36.6

Manual Integrations

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3/1/2021 10:08:35 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

600000

500000

400000

300000

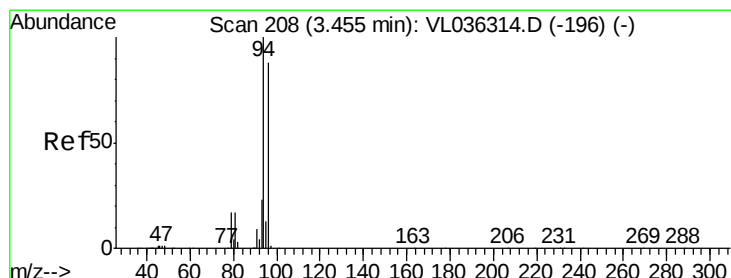
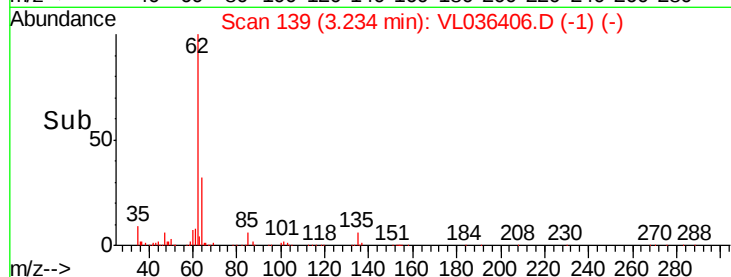
200000

100000

0

3.20 3.30

Time-->



#6

Bromomethane

Concen: 11.450 ppbv

RT: 3.45 min Scan# 206

Delta R.T. -0.01 min

Lab File: VL036406.D

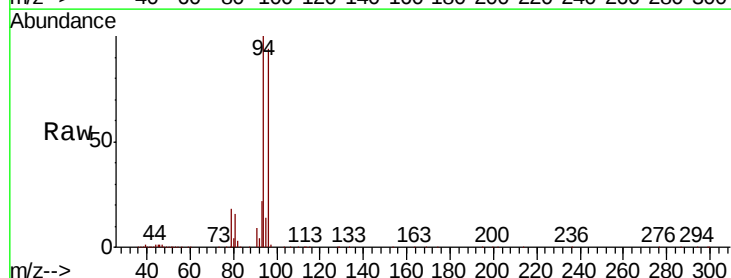
Acq: 26 Feb 2021 17:31

Tgt Ion: 94 Resp: 551145

Ion Ratio Lower Upper

94 100

96 94.4 70.8 106.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

300000

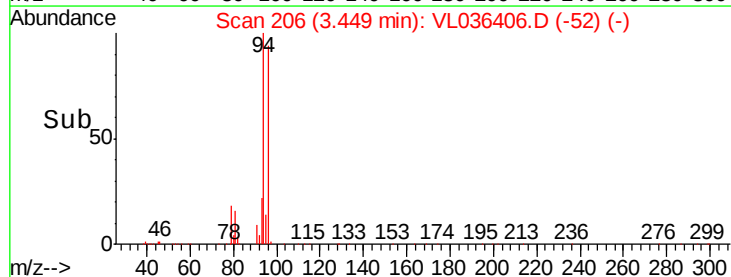
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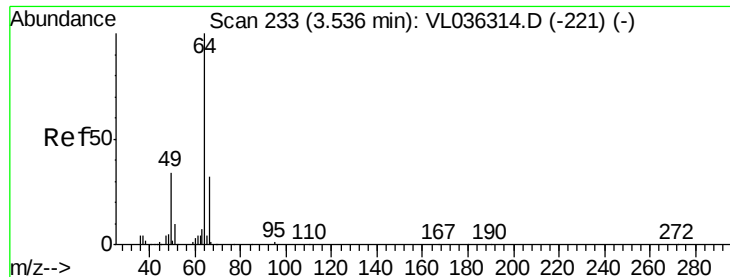
100000

0

3.40 3.45 3.50

Time-->





#7

Chloroethane

Concen: 12.046 ppbv

RT: 3.53 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 64 Resp: 346373

Ion Ratio Lower Upper

64 100

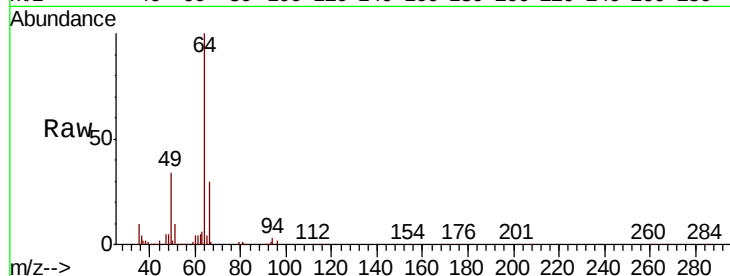
66 30.2 25.6 38.4

Manual Integrations

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3/1/2021 10:08:35 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.53

200000

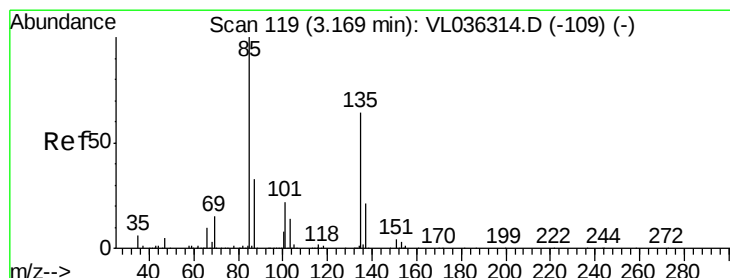
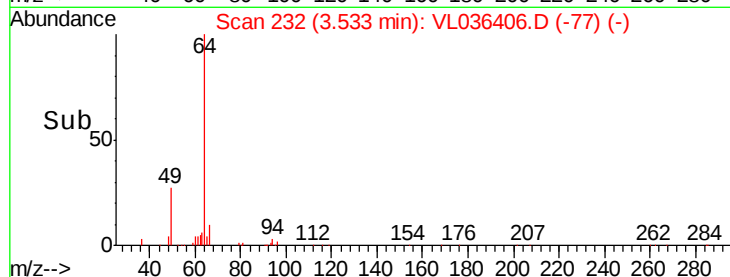
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 11.565 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.01 min

Lab File: VL036406.D

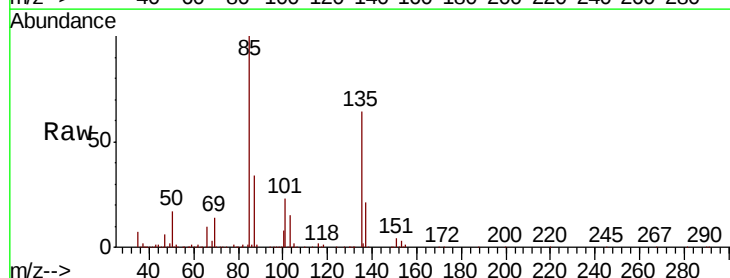
Acq: 26 Feb 2021 17:31

Tgt Ion: 85 Resp: 2274207

Ion Ratio Lower Upper

85 100

135 66.2 51.1 76.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

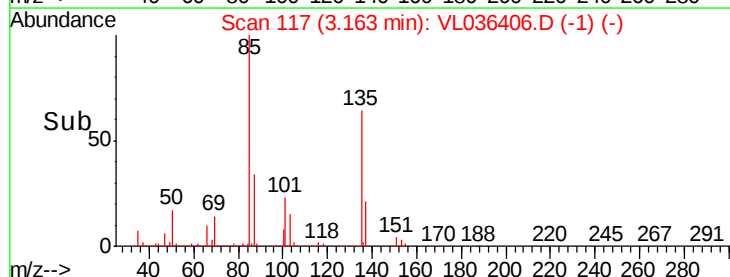
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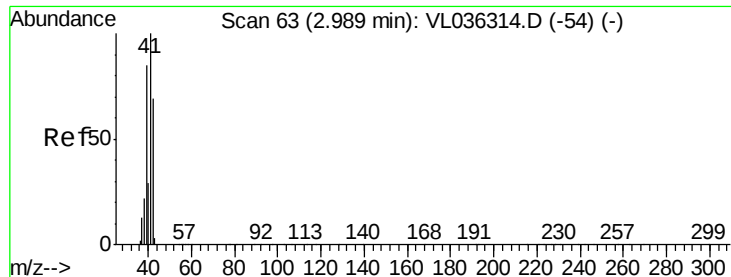
1000000

500000

0

Time-->





#9

Propene

Concen: 13.276 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 41 Resp: 890987

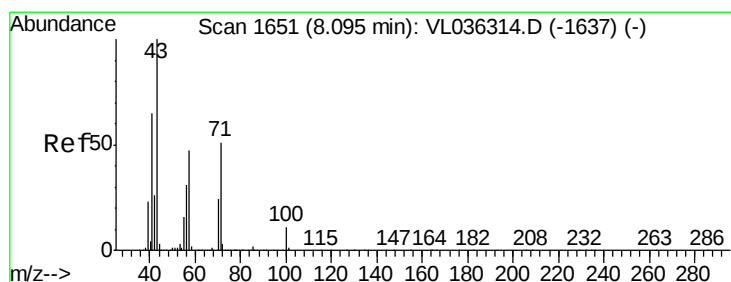
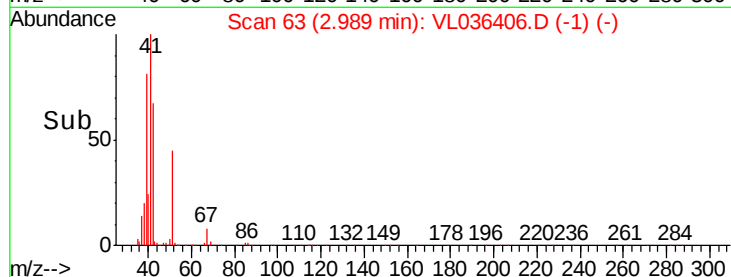
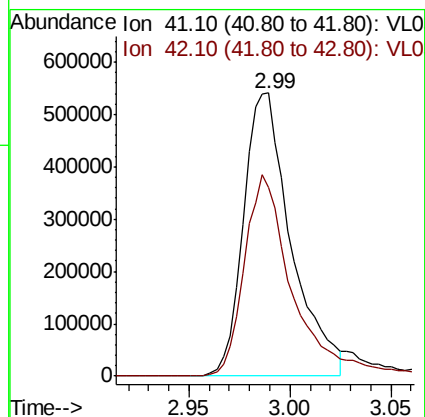
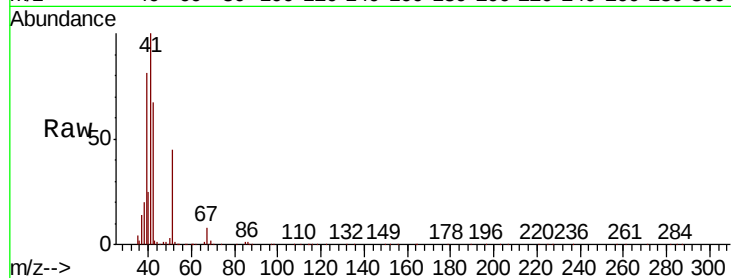
Ion Ratio Lower Upper

41 100

42 73.4 56.2 84.2

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#10

Heptane

Concen: 11.931 ppbv

RT: 8.09 min Scan# 1649

Delta R.T. -0.01 min

Lab File: VL036406.D

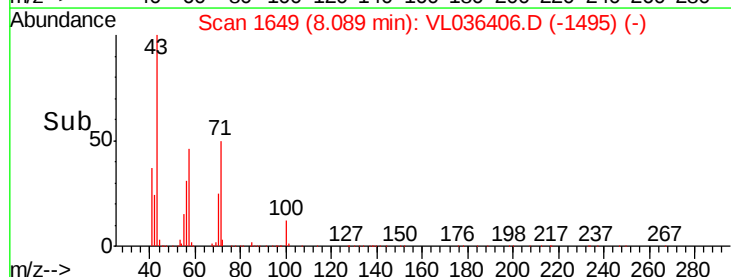
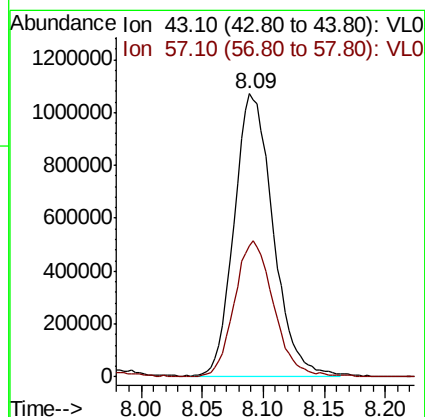
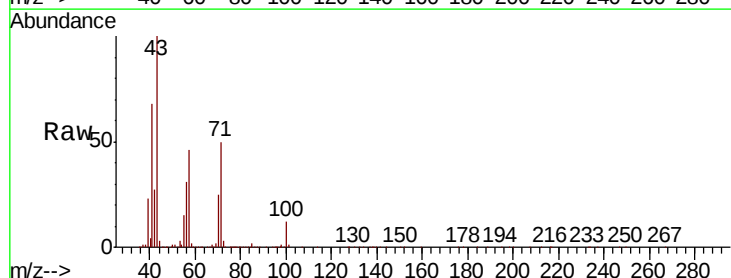
Acq: 26 Feb 2021 17:31

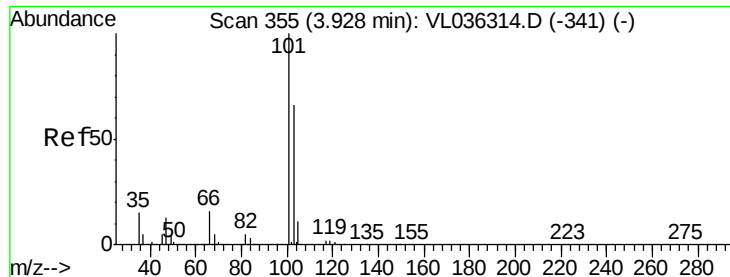
Tgt Ion: 43 Resp: 2359865

Ion Ratio Lower Upper

43 100

57 48.7 39.4 59.2





#11

Trichlorofluoromethane

Concen: 11.240 ppbv

RT: 3.93 min Scan# 354

Delta R.T. -0.00 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion:101 Resp: 2379717

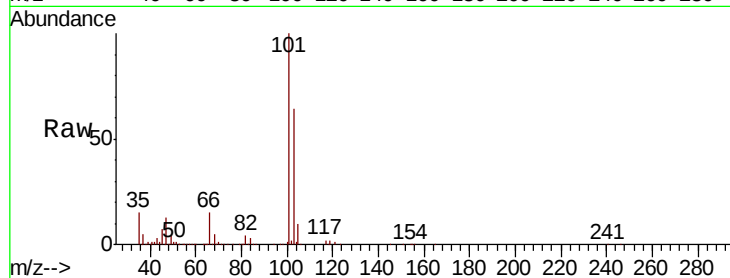
Ion Ratio Lower Upper

101 100

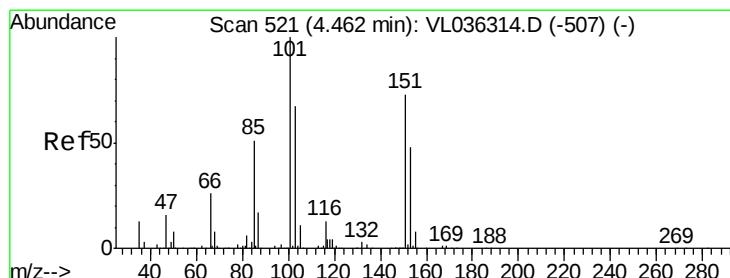
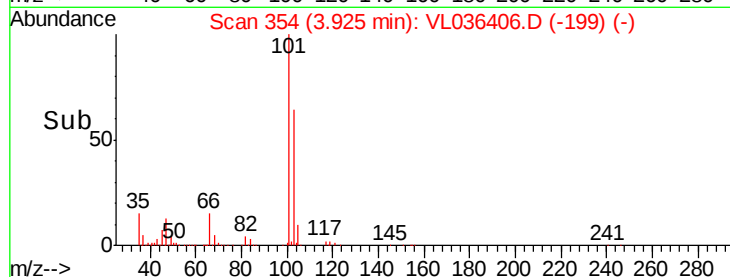
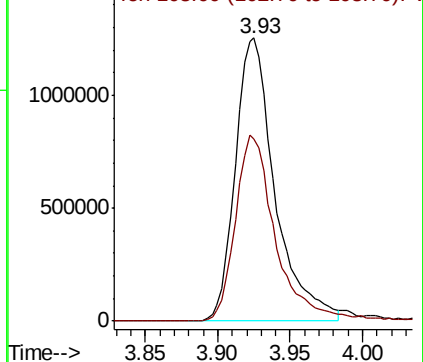
103 64.3 52.9 79.3

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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: 12.053 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.00 min

Lab File: VL036406.D

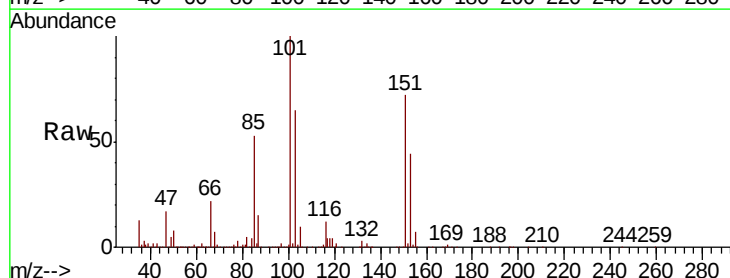
Acq: 26 Feb 2021 17:31

Tgt Ion:101 Resp: 1580782

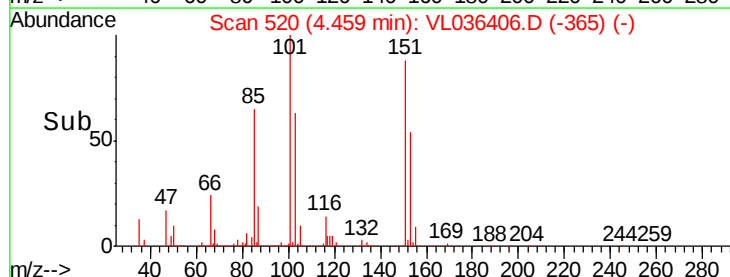
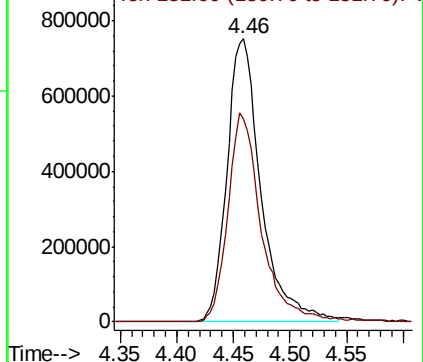
Ion Ratio Lower Upper

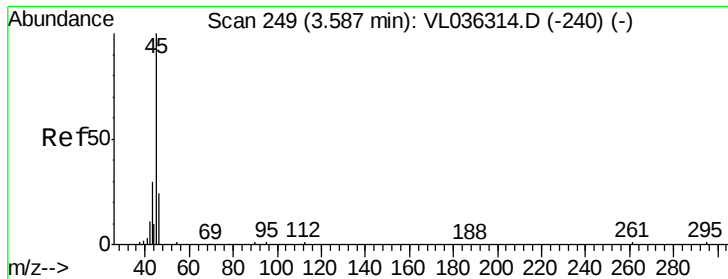
101 100

151 72.9 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V  
Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 10.330 ppbv m

RT: 3.58 min Scan# 248

Delta R.T. -0.00 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 45 Resp: 130222

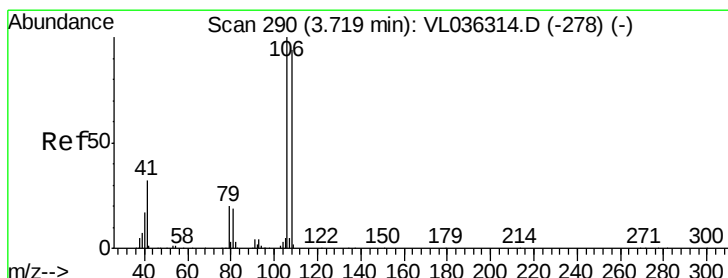
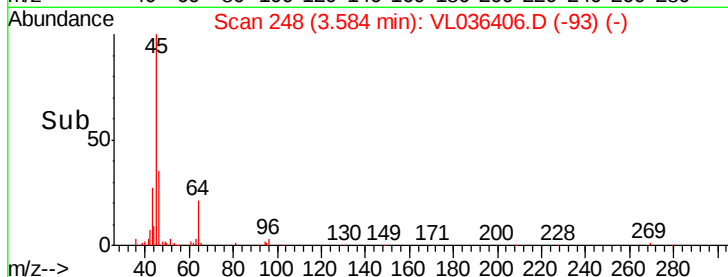
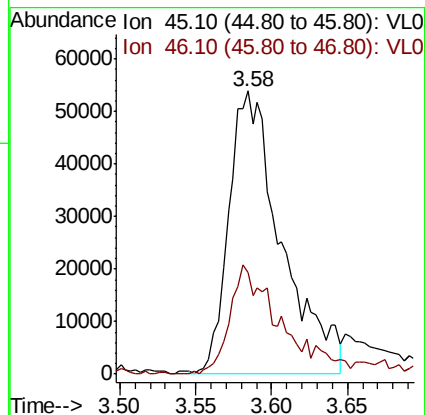
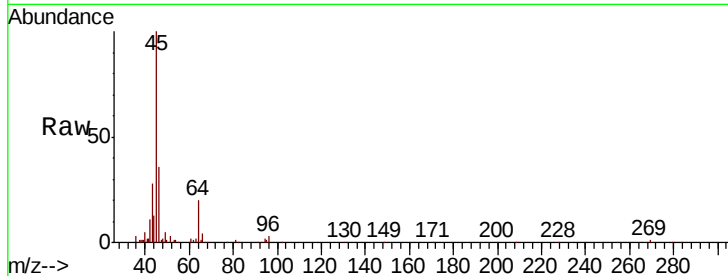
Ion Ratio Lower Upper

45 100

46 36.9 17.7 70.7

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#14

Bromoethene

Concen: 12.337 ppbv

RT: 3.71 min Scan# 288

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

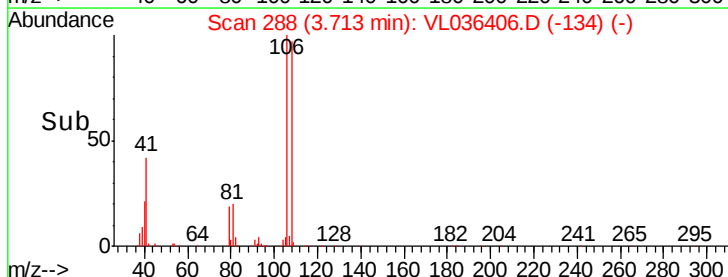
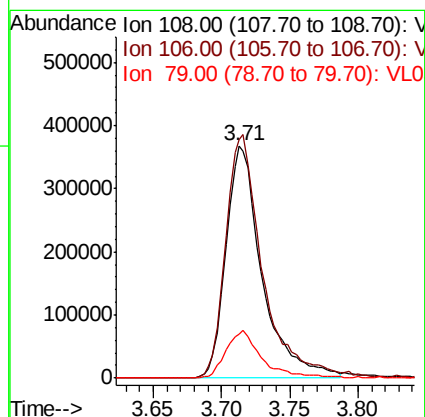
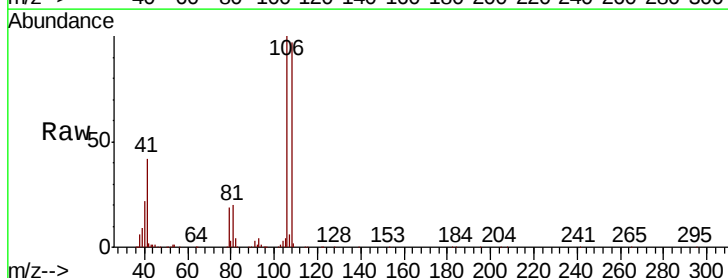
Tgt Ion: 108 Resp: 677190

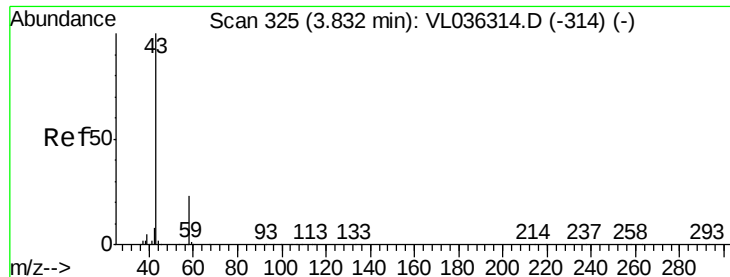
Ion Ratio Lower Upper

108 100

106 108.6 89.8 134.8

79 20.9 17.1 25.7





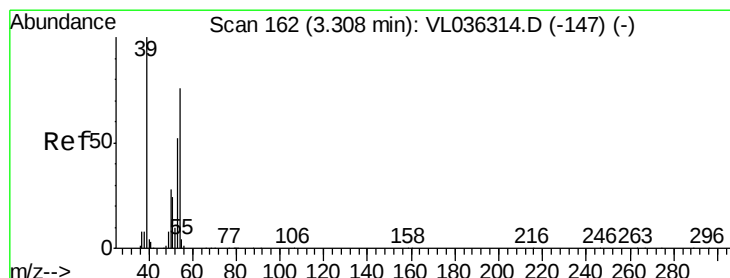
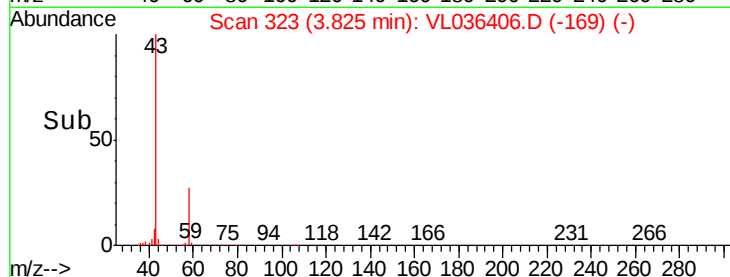
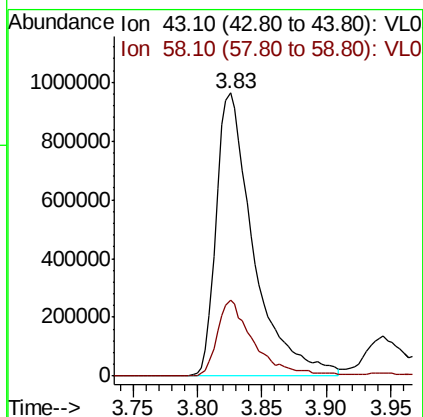
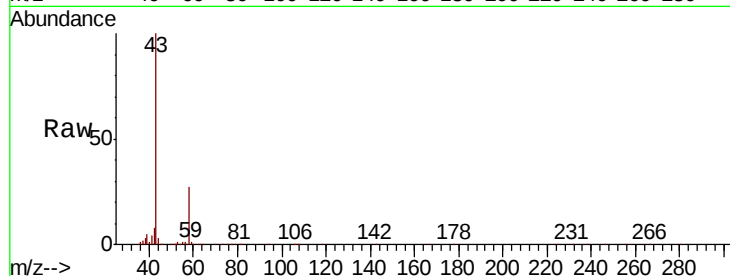
#15  
Acetone  
Concen: 10.903 ppbv  
RT: 3.83 min Scan# 323  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

Tot Ion: 43 Resp: 1930763  
Ion Ratio Lower Upper  
43 100  
58 26.4 20.3 30.5

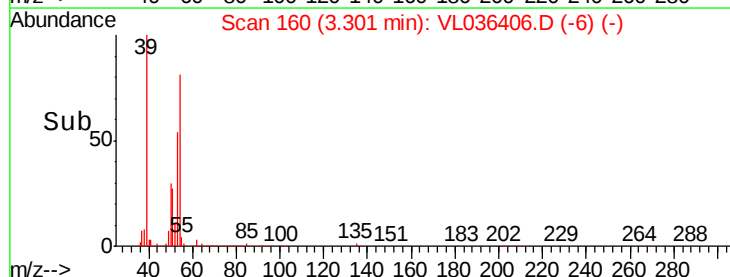
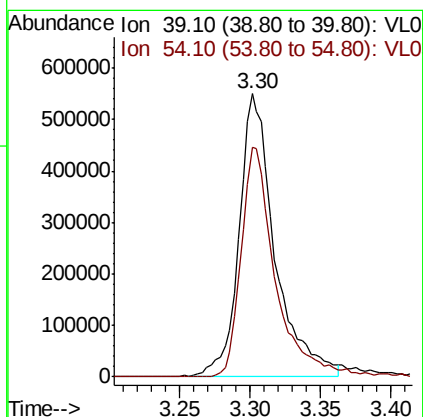
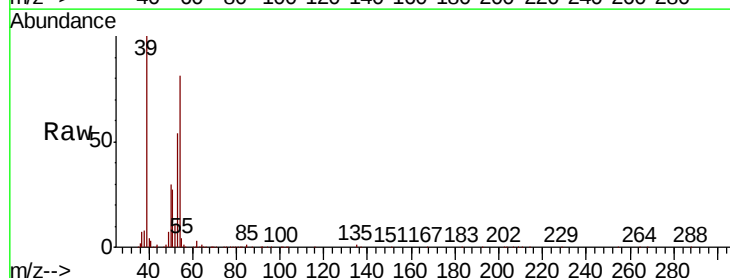
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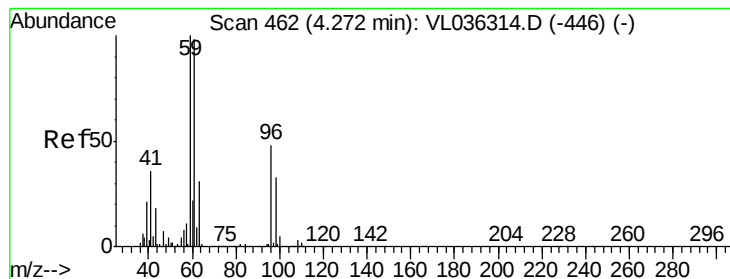
MMDadoda  
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#16  
1,3-Butadiene  
Concen: 11.446 ppbv  
RT: 3.30 min Scan# 160  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Tgt Ion: 39 Resp: 969233  
Ion Ratio Lower Upper  
39 100  
54 79.6 64.4 96.6





#17

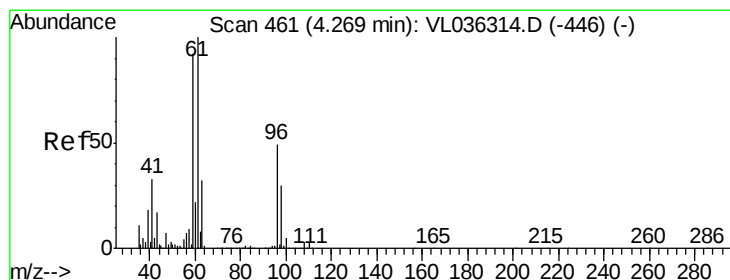
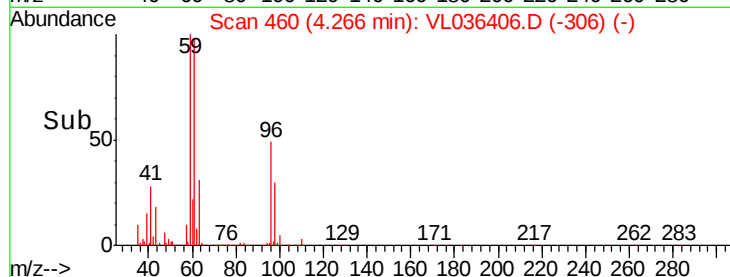
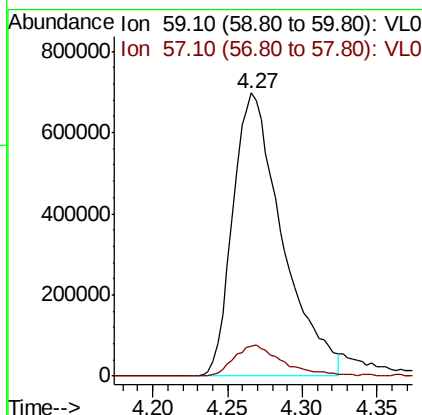
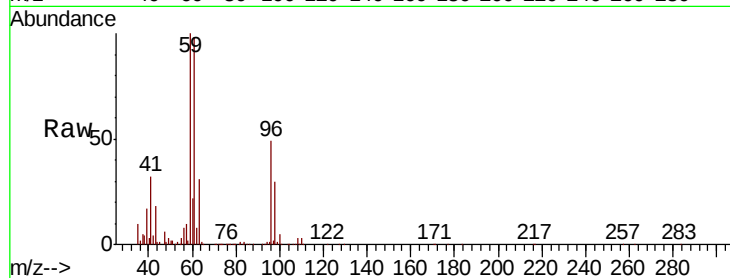
tert-Butyl alcohol  
Concen: 11.679 ppbv  
RT: 4.27 min Scan# 460  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

Tot Ion: 59 Resp: 1605468  
Ion Ratio Lower Upper  
59 100  
57 11.3 9.0 13.4

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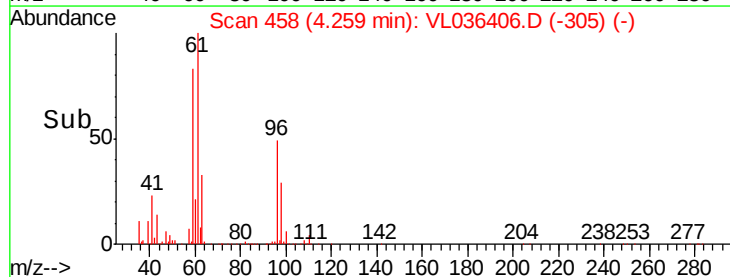
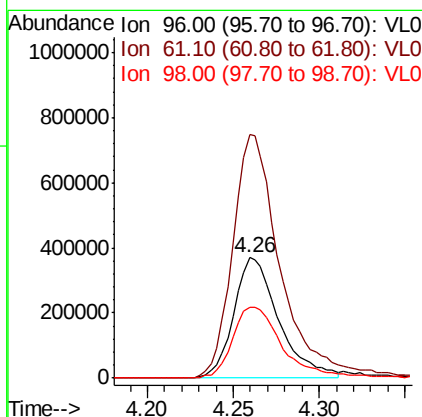
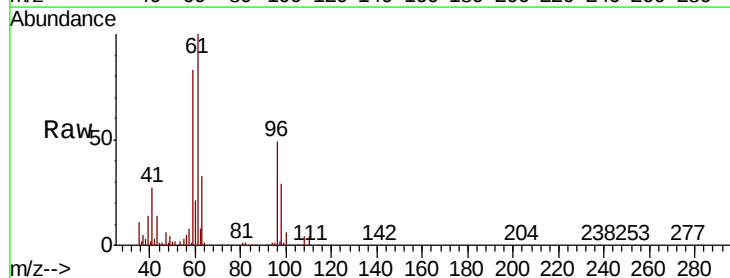
MMDadoda  
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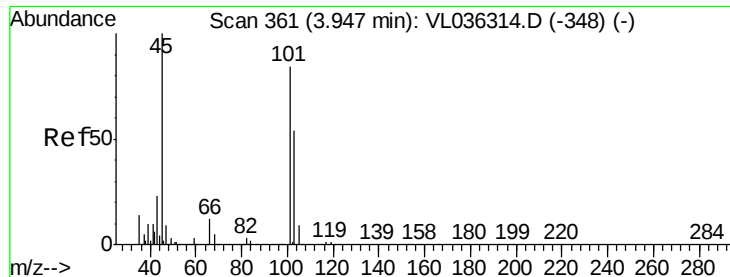


#18

1,1-Dichloroethene  
Concen: 11.313 ppbv  
RT: 4.26 min Scan# 458  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Tgt Ion: 96 Resp: 674288  
Ion Ratio Lower Upper  
96 100  
61 202.3 162.5 243.7  
98 59.0 48.5 72.7





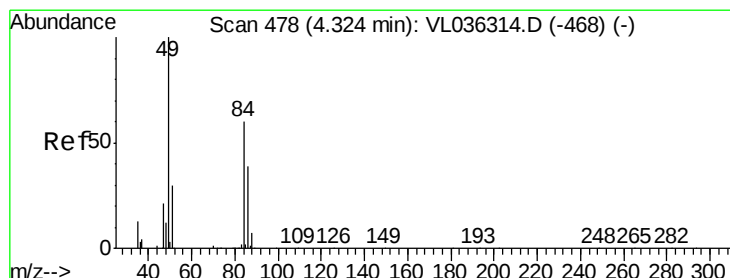
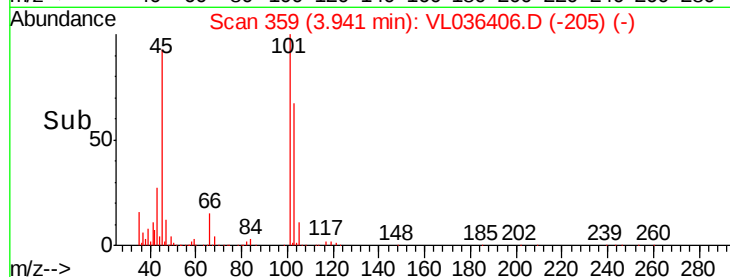
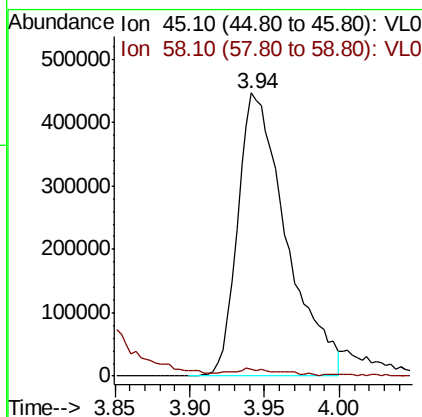
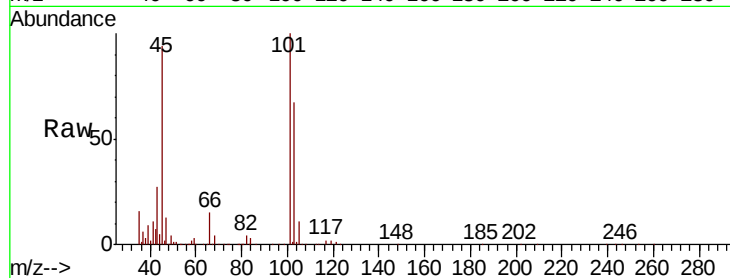
#19  
Isopropyl Alcohol  
Concen: 10.259 ppbv  
RT: 3.94 min Scan# 359  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

Tot Ion: 45 Resp: 1006507  
Ion Ratio Lower Upper  
45 100  
58 3.5 1.9 2.9#

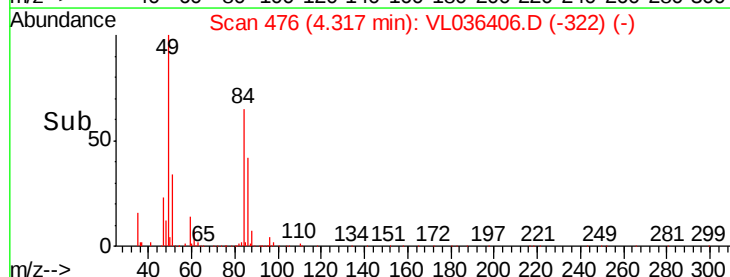
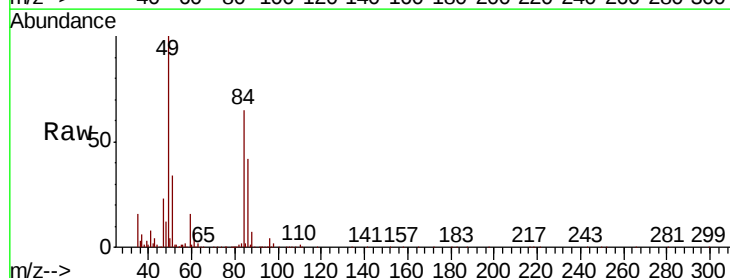
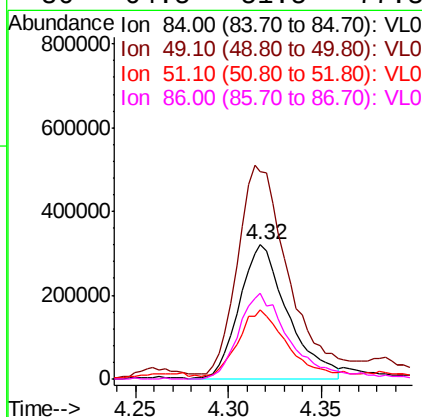
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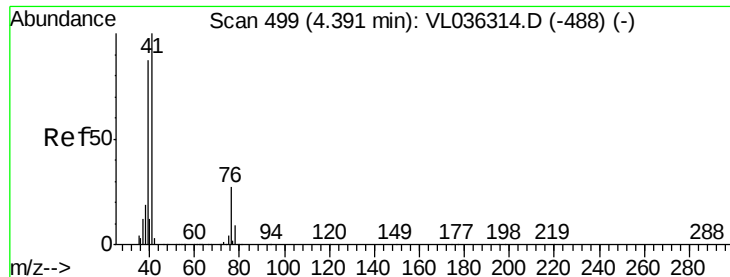
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#20  
Methylene Chloride  
Concen: 10.154 ppbv  
RT: 4.32 min Scan# 476  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Tgt Ion: 84 Resp: 580127  
Ion Ratio Lower Upper  
84 100  
49 151.4 133.8 200.8  
51 49.6 41.4 62.0  
86 64.5 51.5 77.3





#21

Allvl Chloride

Concen: 11.524 ppbv

RT: 4.38 min Scan# 497

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 41 Resp: 1136293

Ion Ratio Lower Upper

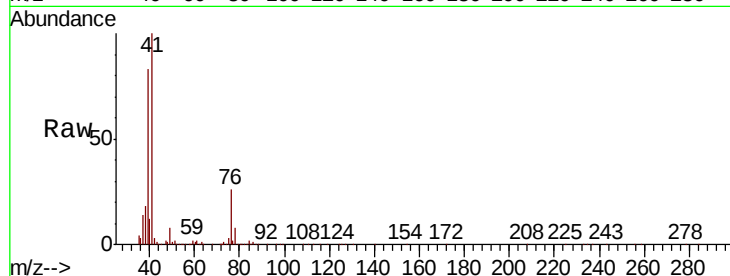
41 100

76 28.3 22.0 33.0

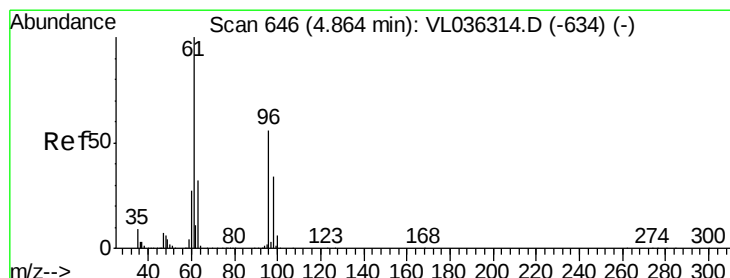
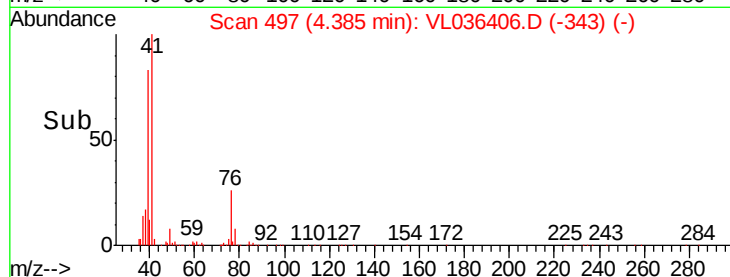
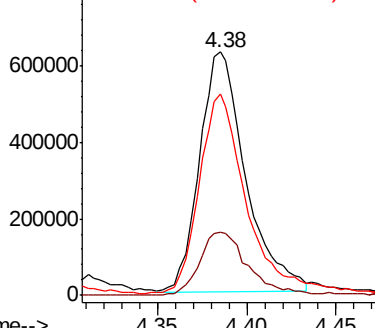
39 88.1 70.2 105.2

Manual Integrations  
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Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 76.10 (75.80 to 76.80): VL0  
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 12.287 ppbv

RT: 4.86 min Scan# 645

Delta R.T. -0.00 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

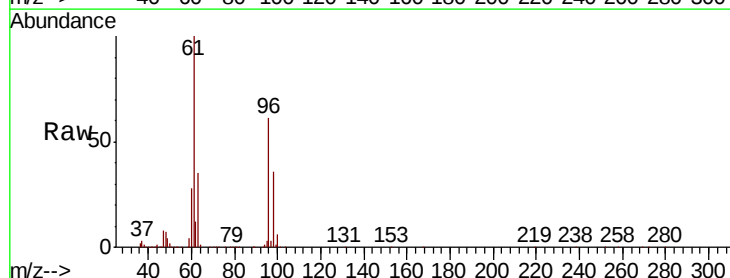
Tgt Ion: 96 Resp: 665241

Ion Ratio Lower Upper

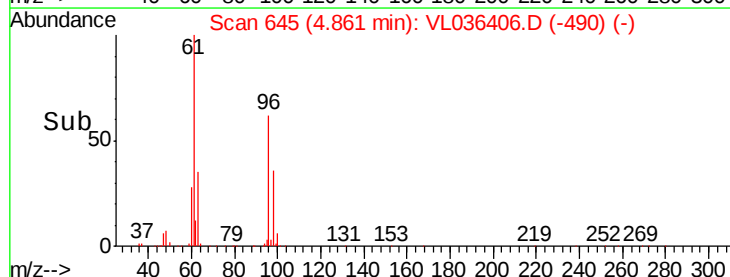
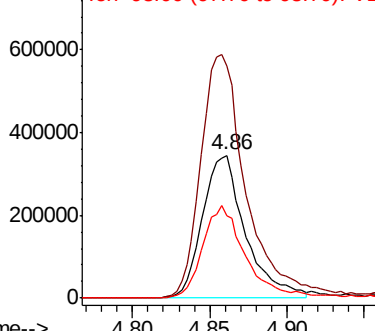
96 100

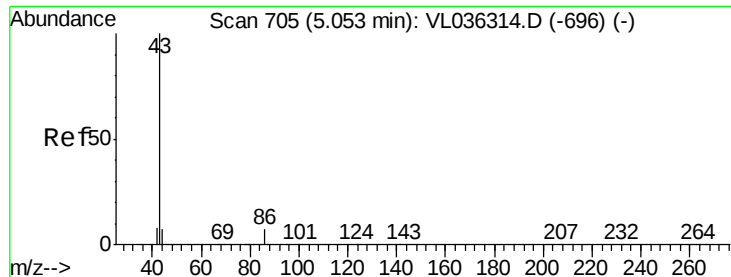
61 162.7 143.7 215.5

98 57.8 48.5 72.7



Abundance Ion 96.00 (95.70 to 96.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 11.784 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

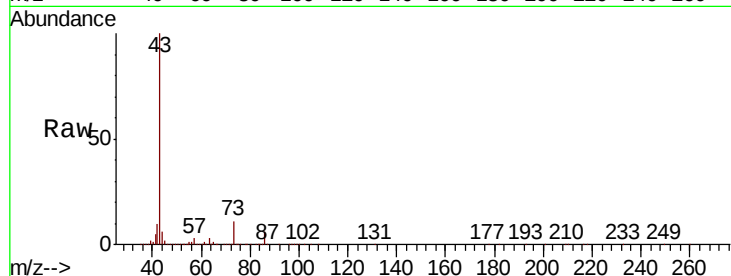
ClientSampleId :

VL0226ABS01

| Tot Ion | 43    | Resp  | 2453701 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 43      | 100   |       |         |
| 86      | 5.8   | 4.8   | 7.2     |
| 42      | 9.6   | 7.4   | 11.0    |
| 44      | 5.0   | 4.8   | 7.2     |

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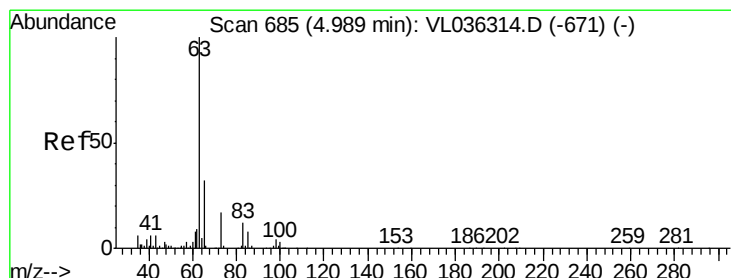
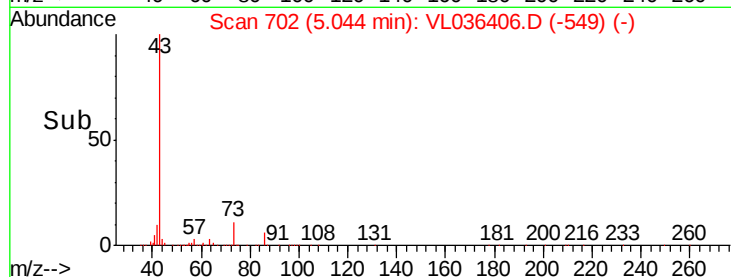
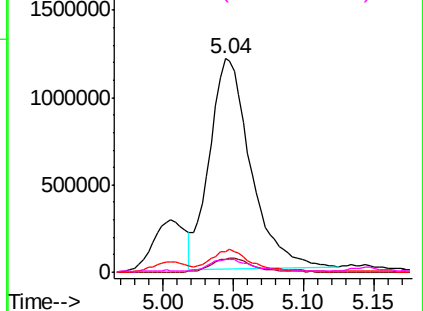


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 11.642 ppbv

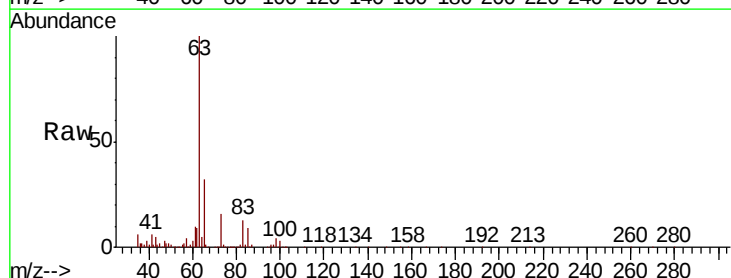
RT: 4.98 min Scan# 683

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

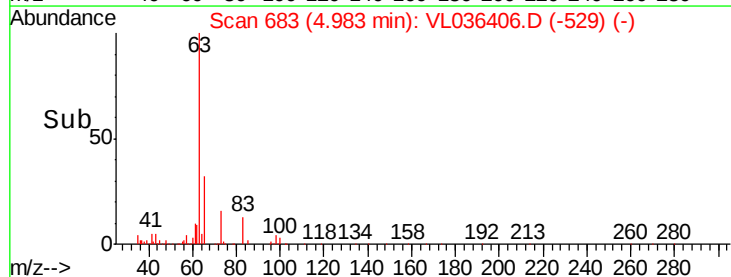
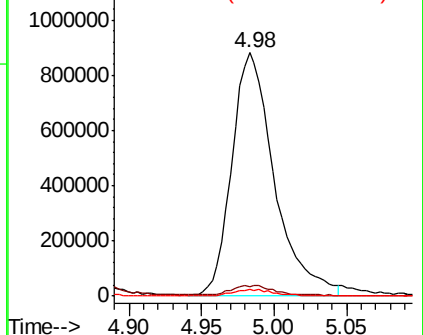
| Tgt Ion | 63    | Resp  | 1792878 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 63      | 100   |       |         |
| 98      | 3.7   | 2.0   | 6.0     |
| 100     | 2.6   | 1.5   | 4.4     |

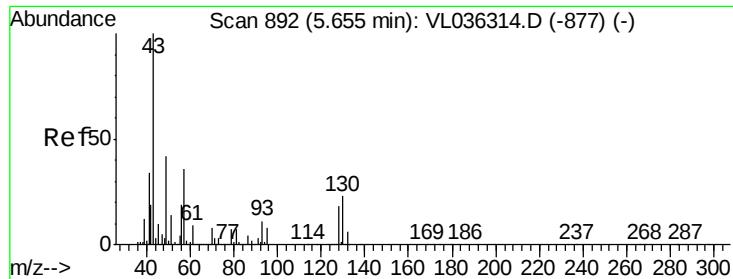


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





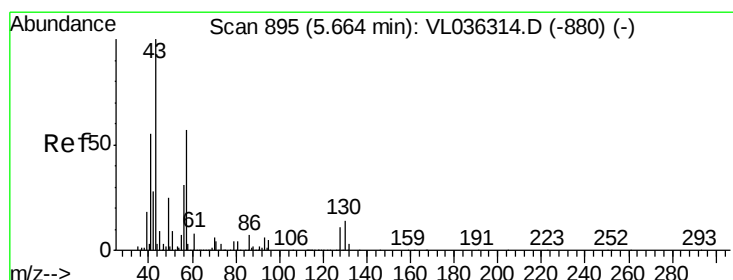
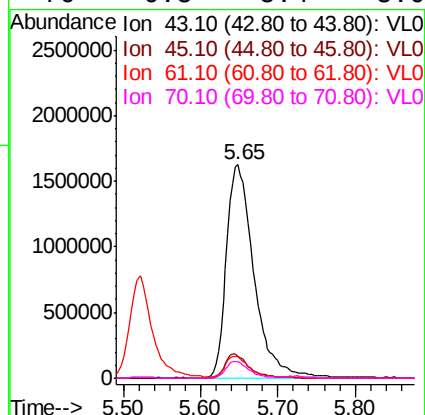
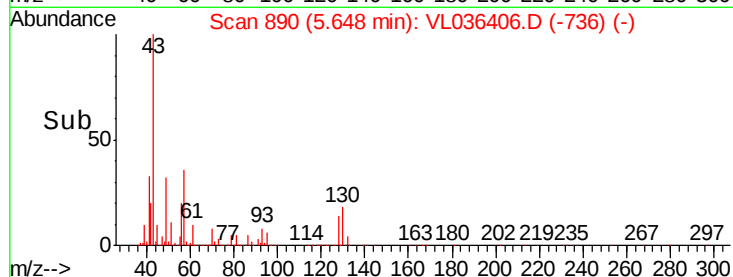
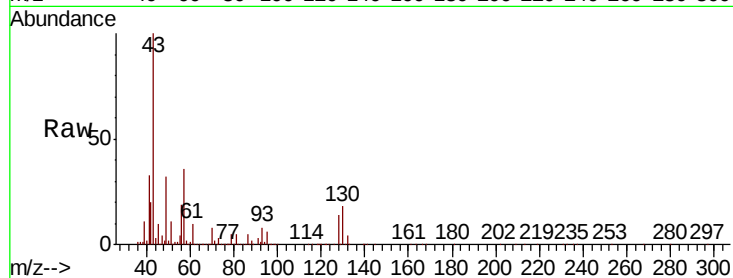
#25  
Ethyl Acetate  
Concen: 11.735 ppbv  
RT: 5.65 min Scan# 890  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 10.4  | 8.3   | 12.5  |
| 61      | 9.7   | 7.3   | 10.9  |
| 70      | 6.8   | 5.4   | 8.0   |

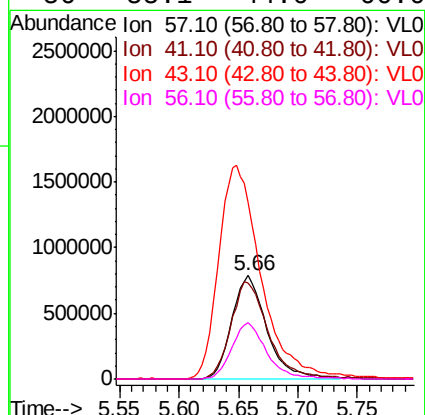
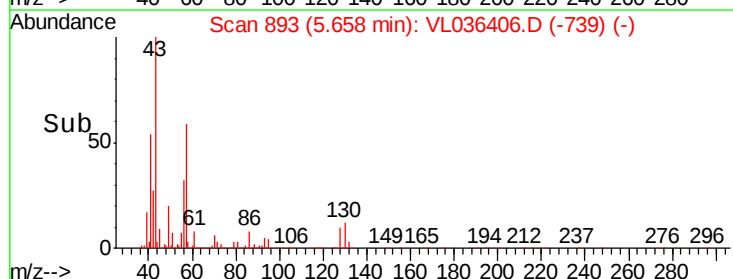
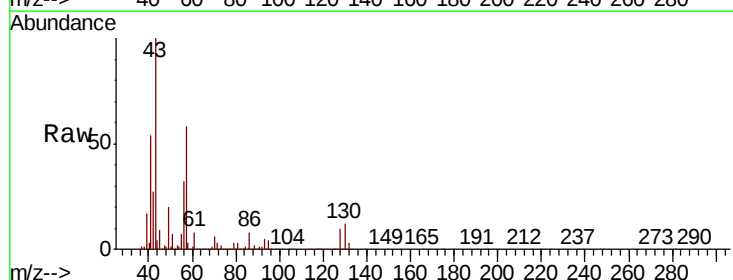
Manual Integrations  
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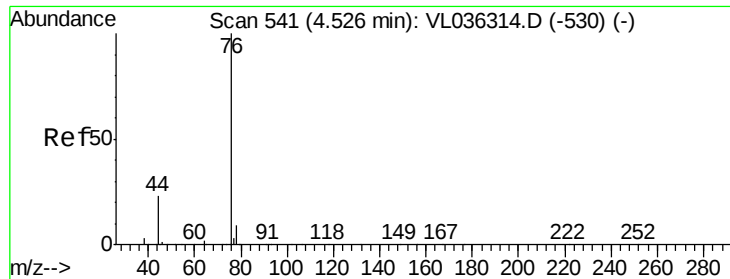
MMDadoda  
3/1/2021 10:08:35 AM



#26  
Hexane  
Concen: 11.419 ppbv  
RT: 5.66 min Scan# 893  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 101.1 | 81.7  | 122.5 |
| 43      | 252.1 | 199.1 | 298.7 |
| 56      | 55.1  | 44.0  | 66.0  |





#27

Carbon Disulfide

Concen: 13.591 ppbv

RT: 4.52 min Scan# 539

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 76 Resp: 1754580

Ion Ratio Lower Upper

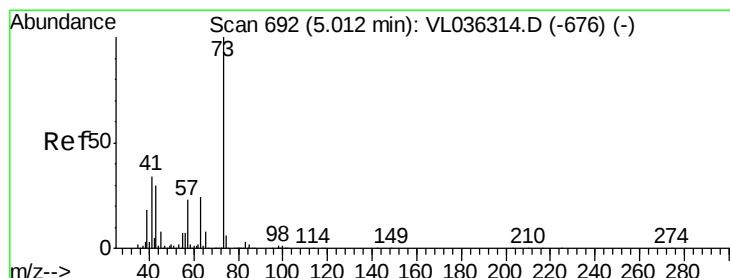
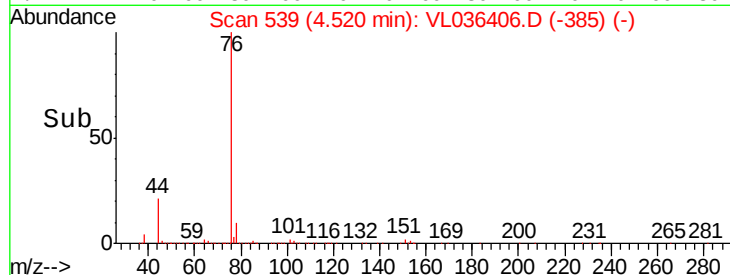
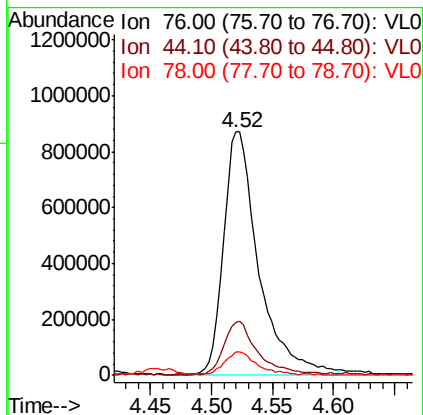
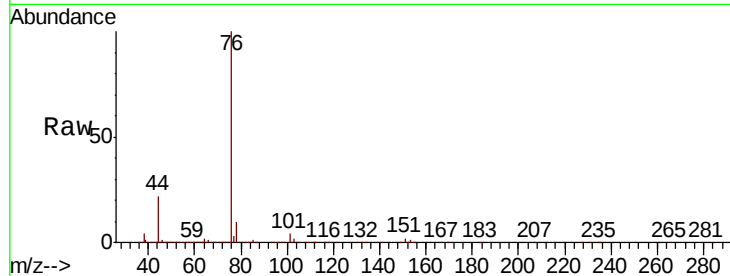
76 100

44 21.8 18.4 27.6

78 9.6 8.0 12.0

Manual Integrations  
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3/1/2021 10:08:35 AM



#28

Methyl tert-Butyl Ether

Concen: 12.252 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL036406.D

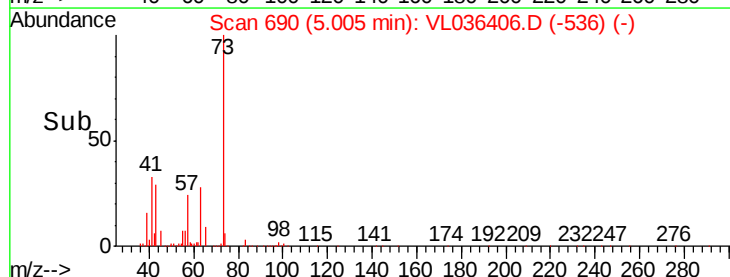
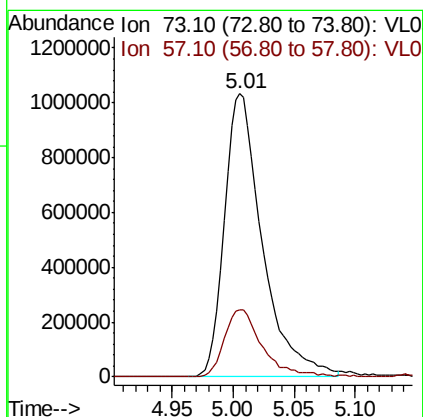
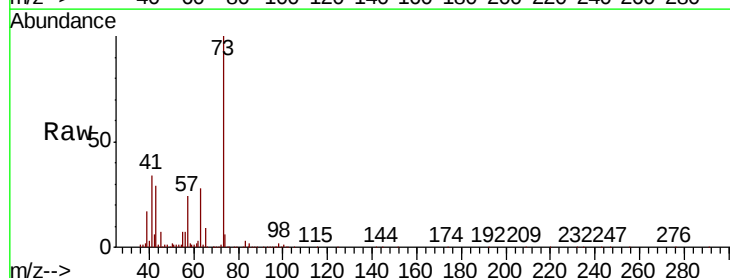
Acq: 26 Feb 2021 17:31

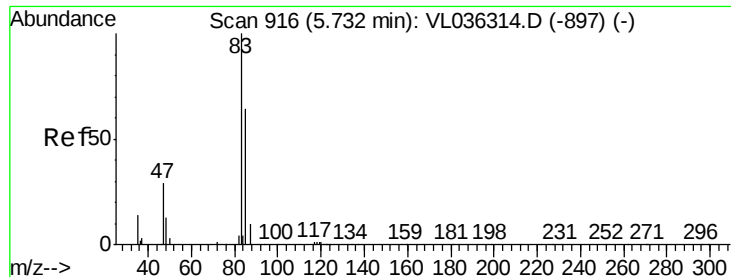
Tgt Ion: 73 Resp: 2248262

Ion Ratio Lower Upper

73 100

57 24.1 19.2 28.8





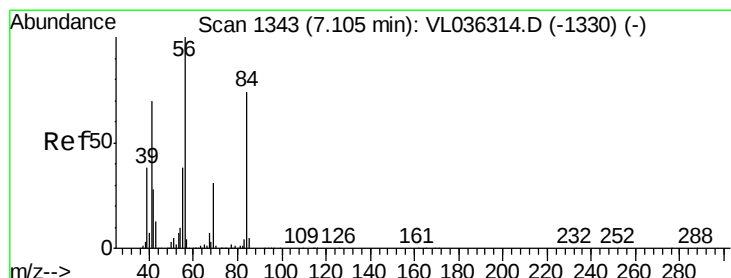
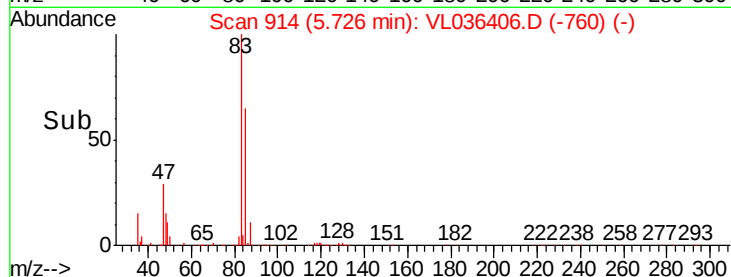
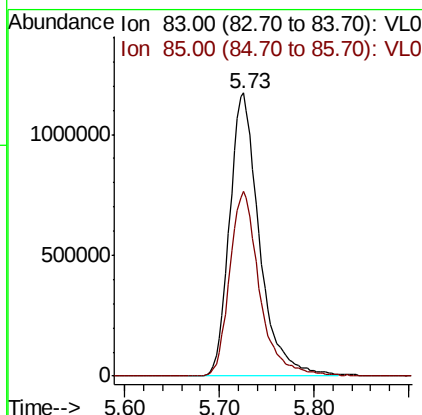
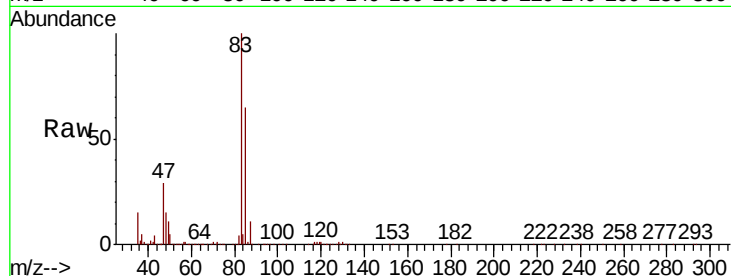
#29  
Chloroform  
Concen: 11.344 ppbv  
RT: 5.73 min Scan# 914  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

Tot Ion: 83 Resp: 2567247  
Ion Ratio Lower Upper  
83 100  
85 65.0 51.4 77.2

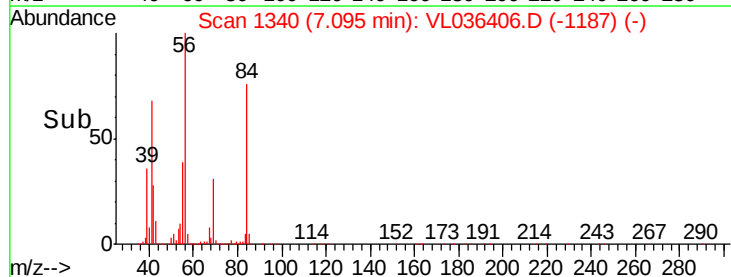
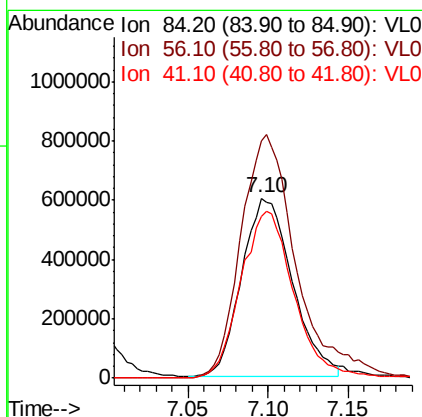
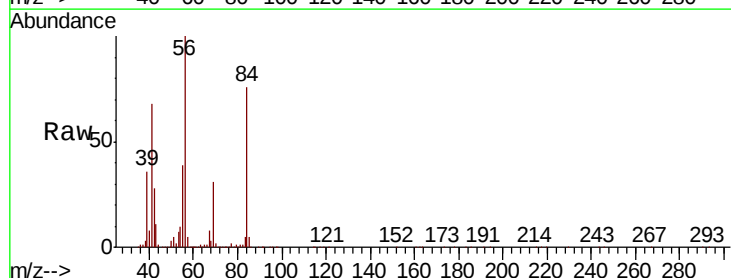
Manual Integrations  
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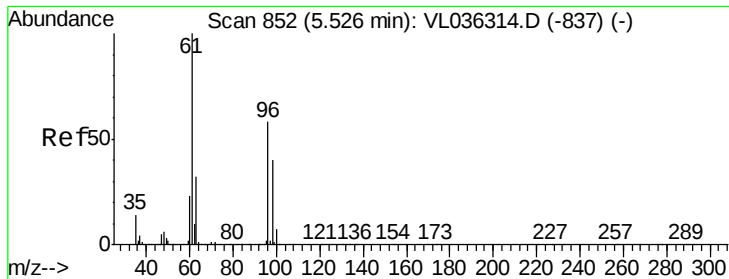
MMDadoda  
3/1/2021 10:08:35 AM



#30  
Cyclohexane  
Concen: 11.278 ppbv  
RT: 7.10 min Scan# 1340  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Tgt Ion: 84 Resp: 1317518  
Ion Ratio Lower Upper  
84 100  
56 150.0 120.2 180.4  
41 97.3 79.7 119.5





#31

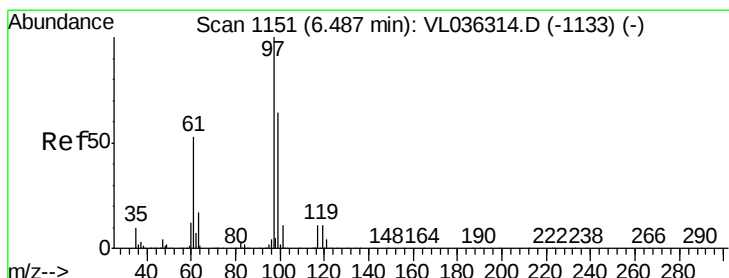
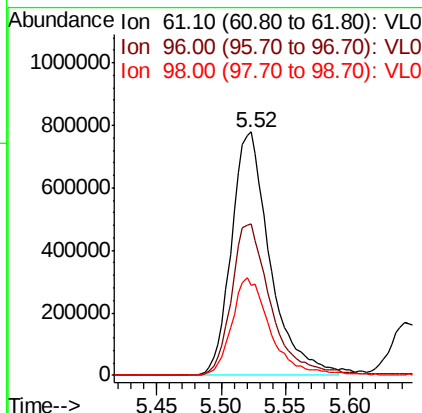
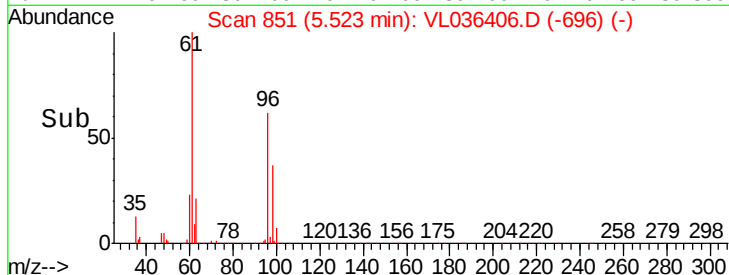
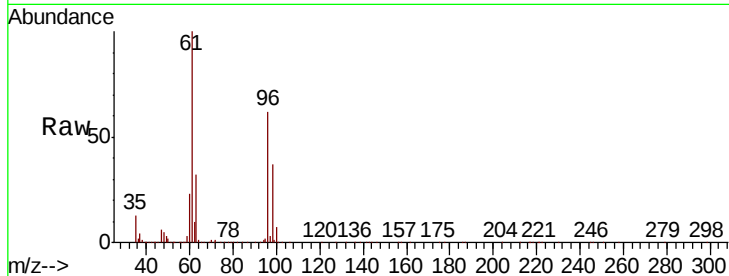
cis-1,2-Dichloroethene  
Concen: 11.643 ppbv  
RT: 5.52 min Scan# 851  
Delta R.T. -0.00 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 62.0  | 46.0  | 69.0  |
| 98      | 37.0  | 31.9  | 47.9  |

Manual Integrations  
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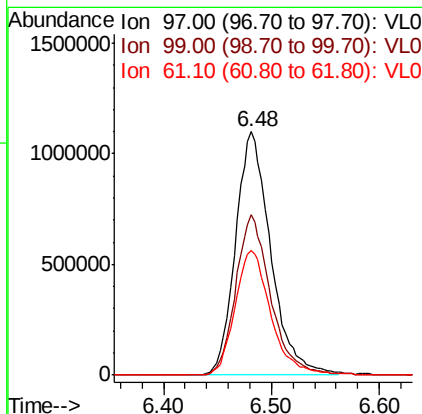
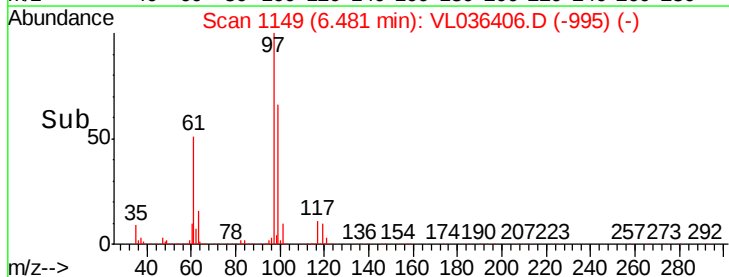
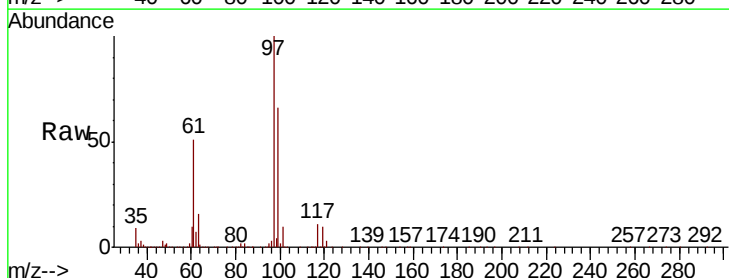
MMDadoda  
3/1/2021 10:08:35 AM

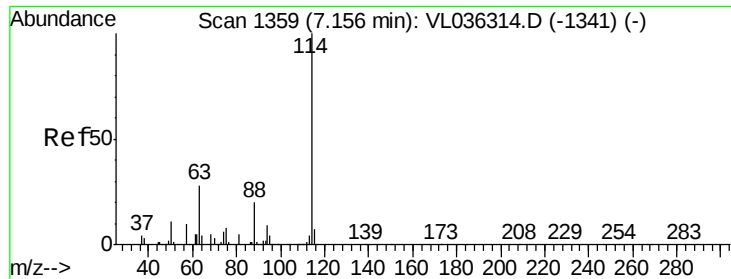


#32

1,1,1-Trichloroethane  
Concen: 11.813 ppbv  
RT: 6.48 min Scan# 1149  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.3  | 52.2  | 78.4  |
| 61      | 52.4  | 43.3  | 64.9  |





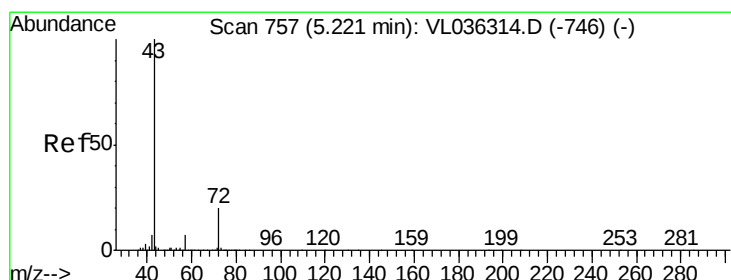
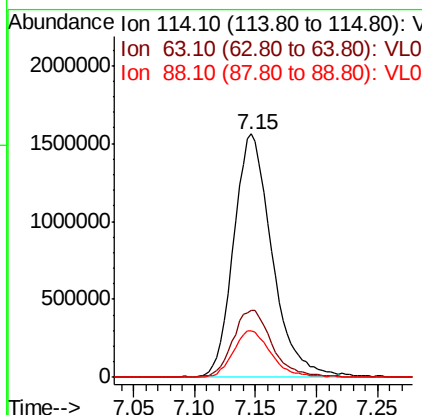
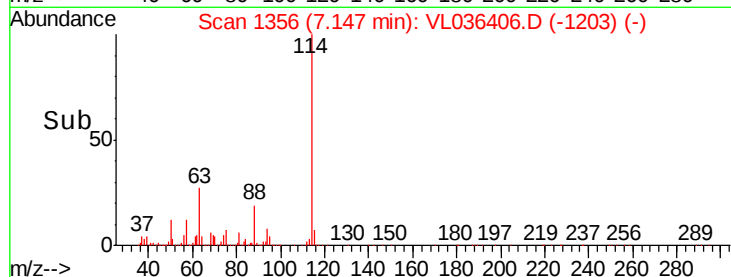
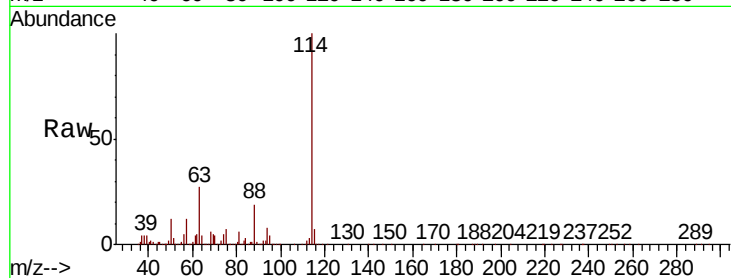
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.15 min Scan# 1356  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0226ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 28.8  | 24.1  | 36.1  |
| 88      | 19.3  | 16.0  | 24.0  |

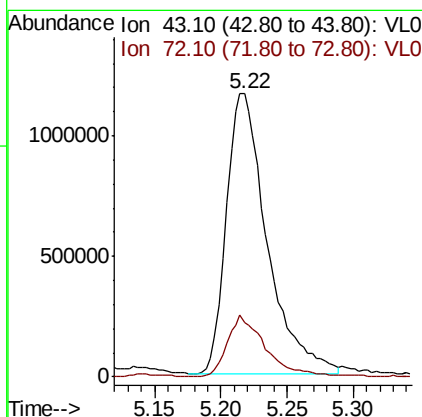
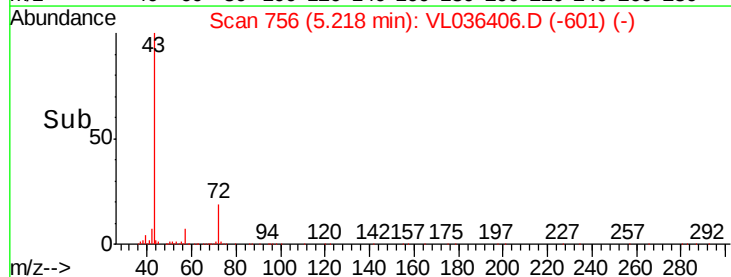
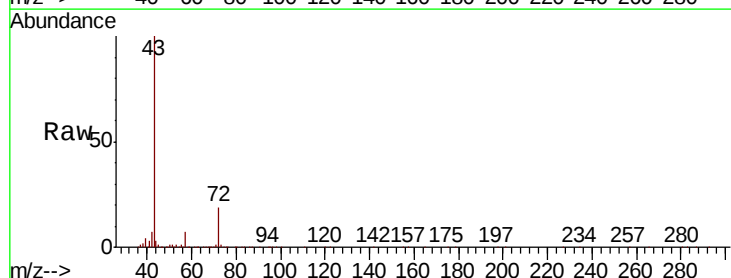
Manual Integrations  
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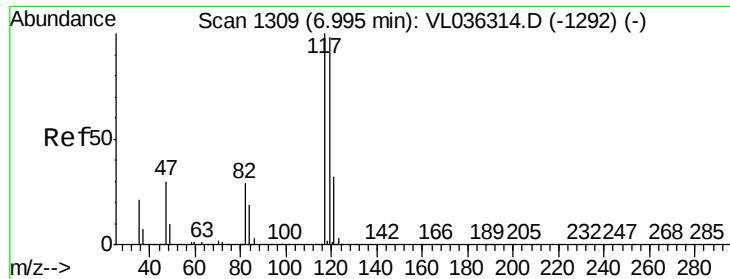
MMDadoda  
 3/1/2021 10:08:35 AM



#34  
 2-Butanone  
 Concen: 11.074 ppbv  
 RT: 5.22 min Scan# 756  
 Delta R.T. -0.00 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 21.2  | 16.7  | 25.1  |





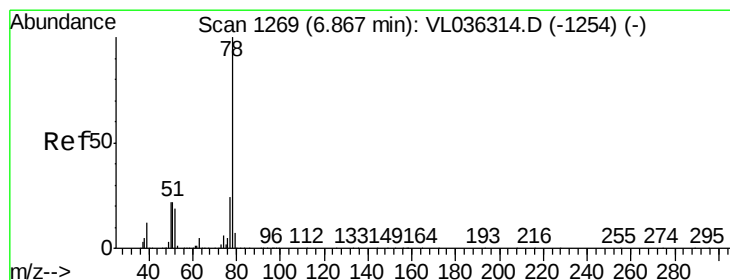
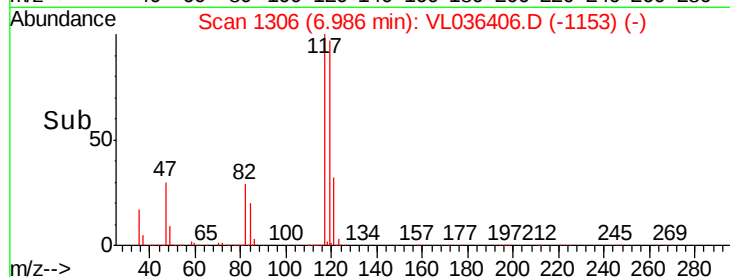
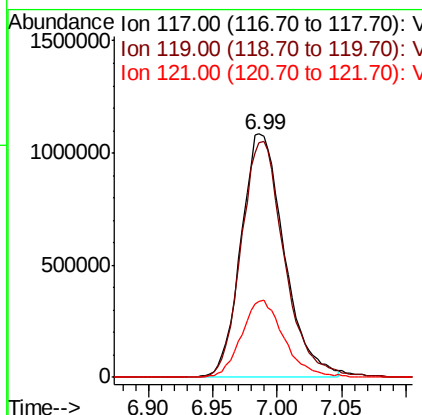
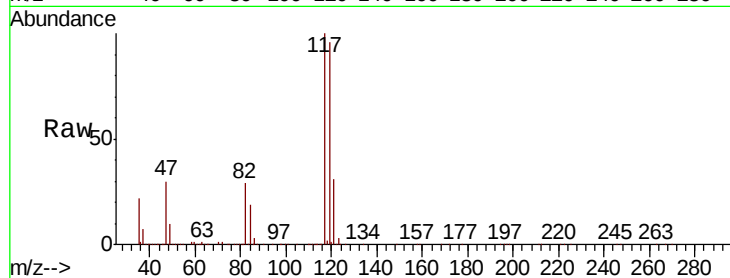
#35  
Carbon Tetrachloride  
Concen: 11.147 ppbv  
RT: 6.99 min Scan# 1306  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 96.2  | 78.1  | 117.1 |
| 121     | 31.2  | 25.8  | 38.8  |

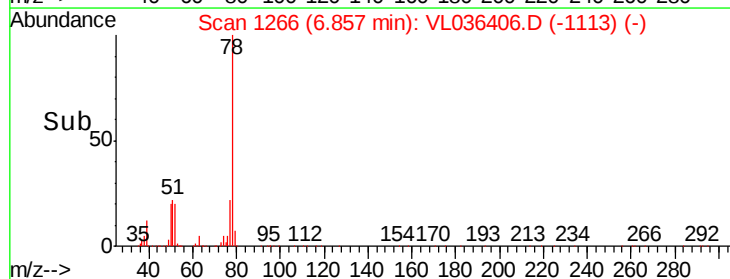
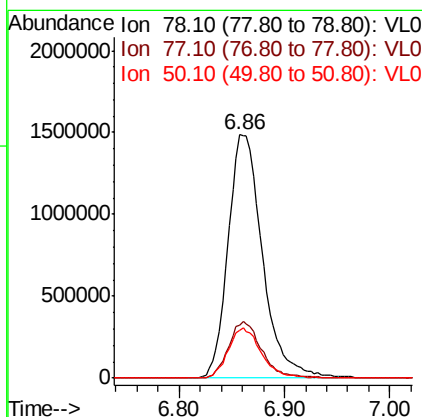
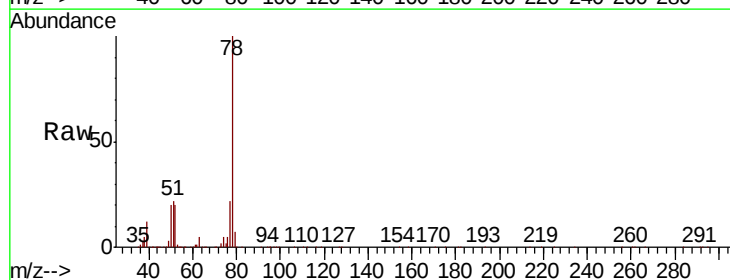
Manual Integrations  
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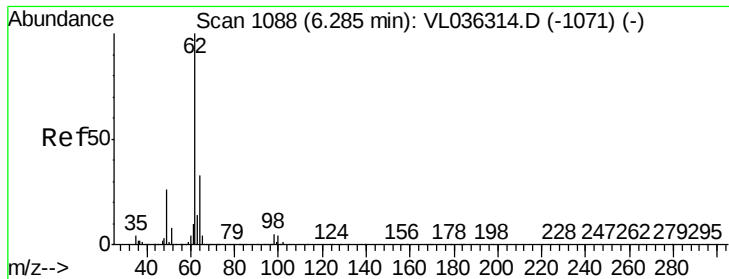
MMDadoda  
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#36  
Benzene  
Concen: 11.652 ppbv  
RT: 6.86 min Scan# 1266  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 21.6  | 18.9  | 28.3  |
| 50      | 19.7  | 17.3  | 25.9  |





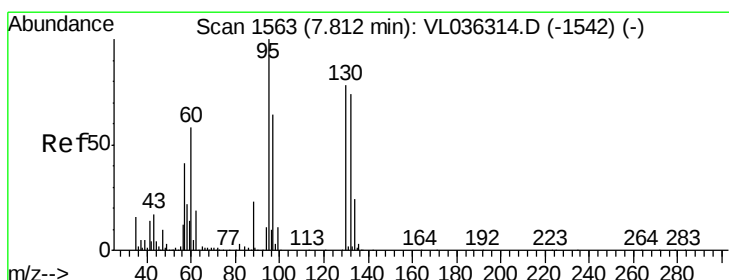
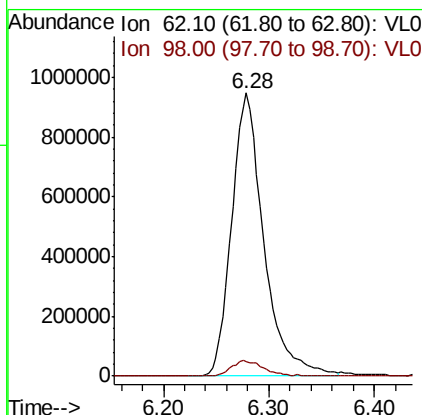
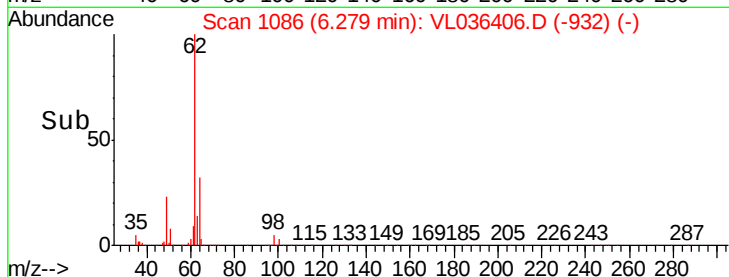
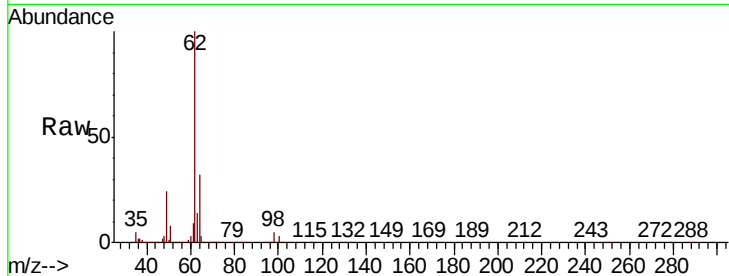
#37  
 1,2-Dichloroethane  
 Concen: 11.241 ppbv  
 RT: 6.28 min Scan# 1086  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0226ABS01

Tot Ion: 62 Resp: 2004575  
 Ion Ratio Lower Upper  
 62 100  
 98 6.0 4.5 6.7

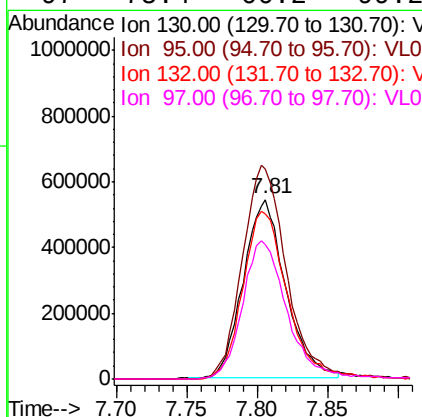
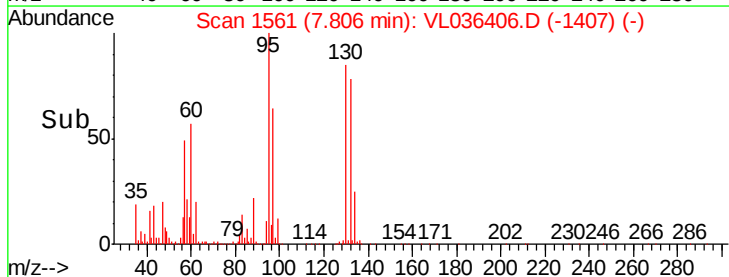
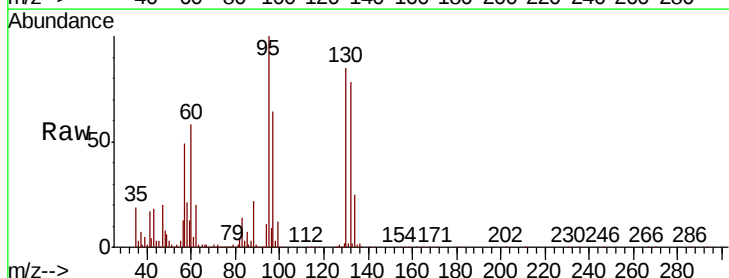
Manual Integrations  
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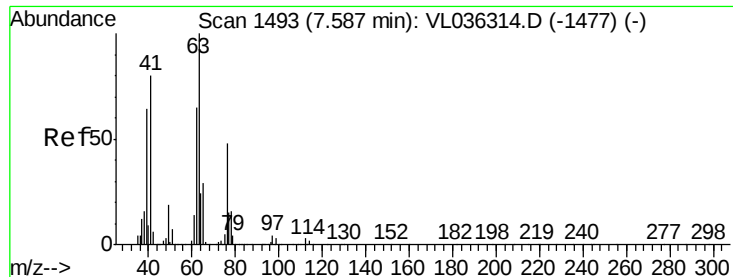
MMDadoda  
 3/1/2021 10:08:35 AM



#38  
 Trichloroethene  
 Concen: 11.069 ppbv  
 RT: 7.81 min Scan# 1561  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

Tgt Ion: 130 Resp: 1143775  
 Ion Ratio Lower Upper  
 130 100  
 95 117.4 102.8 154.2  
 132 92.1 75.7 113.5  
 97 75.4 66.2 99.2





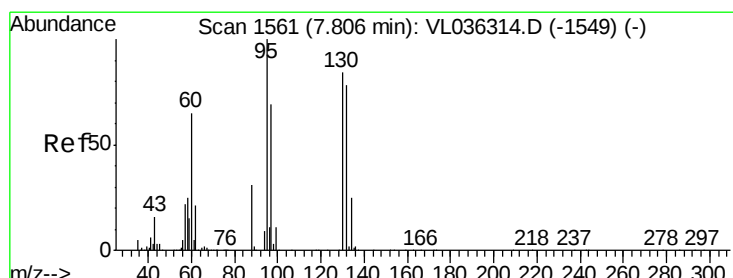
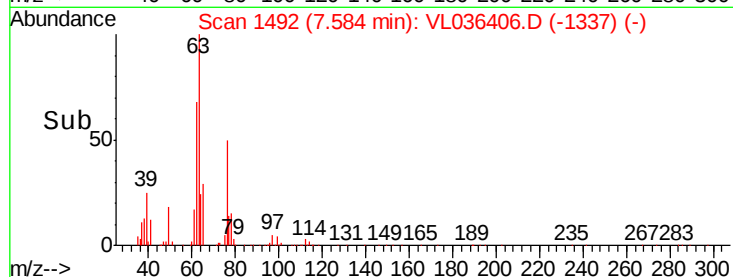
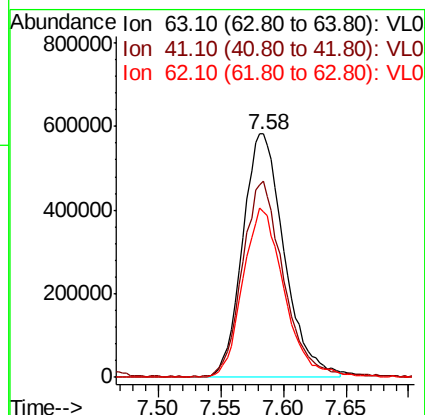
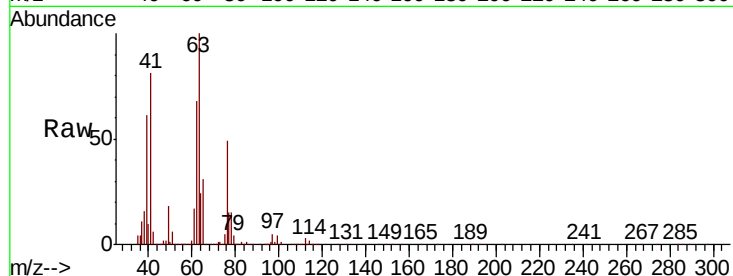
#39  
 1,2-Dichloropropane  
 Concen: 11.442 ppbv  
 RT: 7.58 min Scan# 1492  
 Delta R.T. -0.00 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0226ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 80.4  | 63.8  | 95.6  |
| 62      | 68.1  | 52.3  | 78.5  |

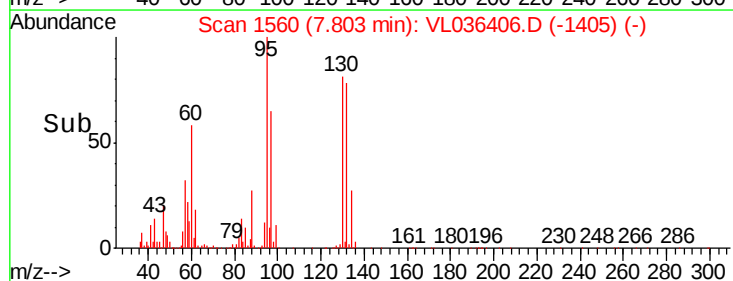
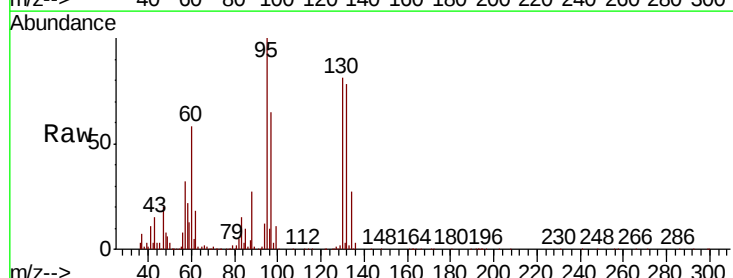
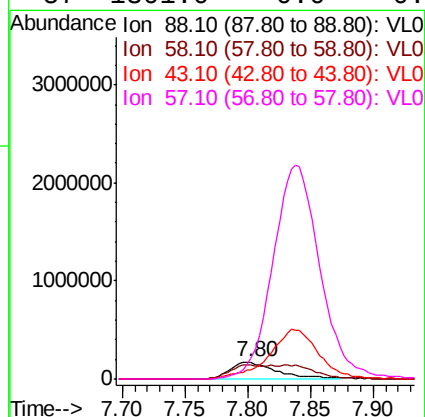
Manual Integrations  
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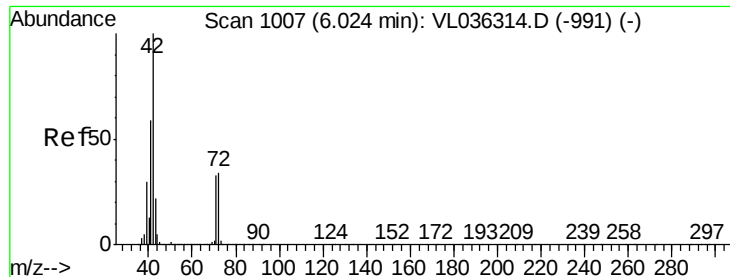
MMDadoda  
 3/1/2021 10:08:35 AM



#40  
 1,4-Dioxane  
 Concen: 10.863 ppbv  
 RT: 7.80 min Scan# 1560  
 Delta R.T. -0.00 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 88      | 100    |       |       |
| 58      | 143.7  | 45.0  | 67.4# |
| 43      | 316.2  | 0.0   | 0.0#  |
| 57      | 1301.0 | 0.0   | 0.0#  |





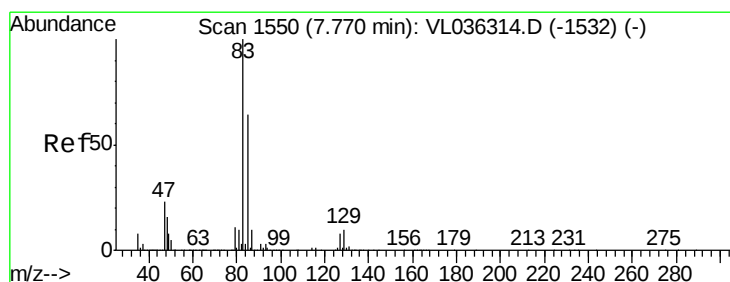
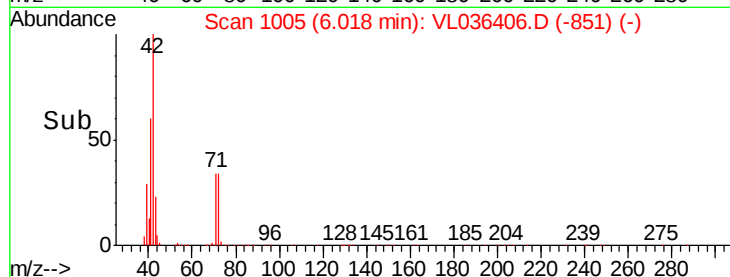
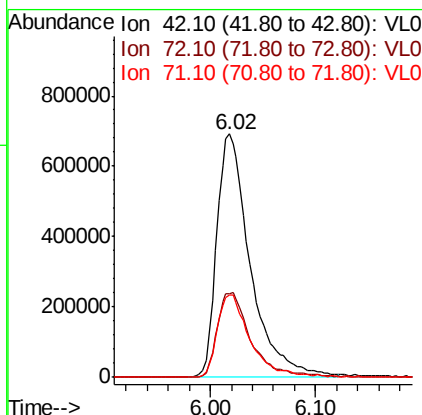
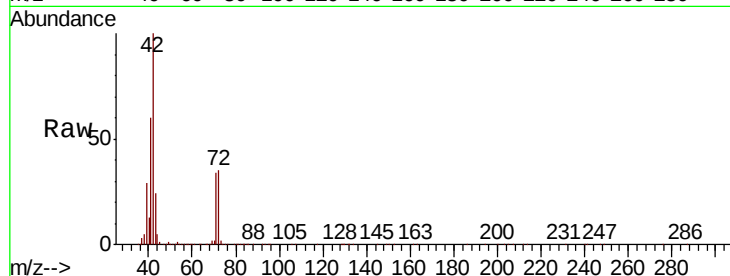
#41  
Tetrahydrofuran  
Concen: 12.075 ppbv  
RT: 6.02 min Scan# 1005  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 35.4  | 29.3  | 43.9  |
| 71      | 33.8  | 27.8  | 41.8  |

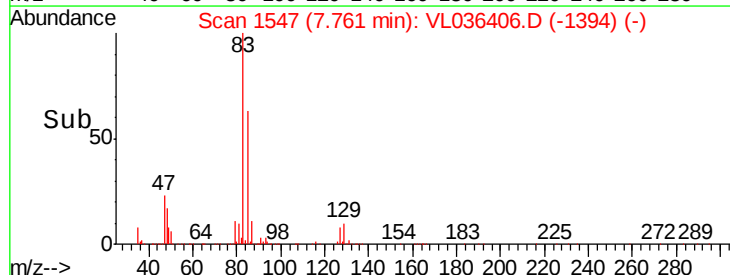
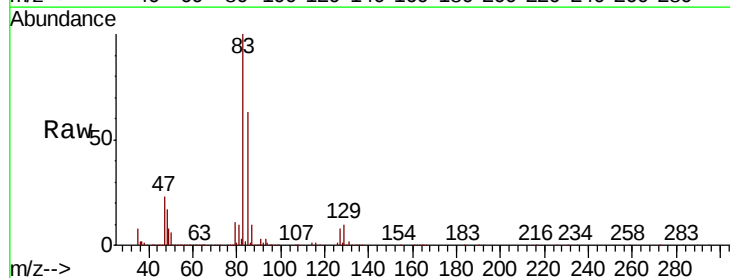
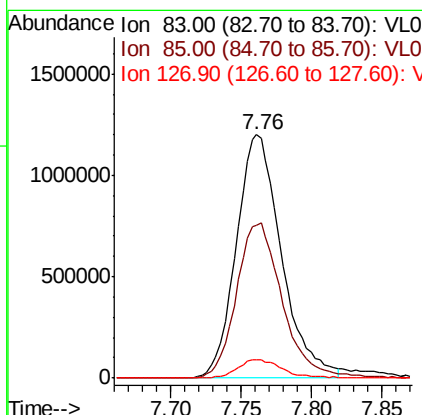
Manual Integrations  
APPROVED

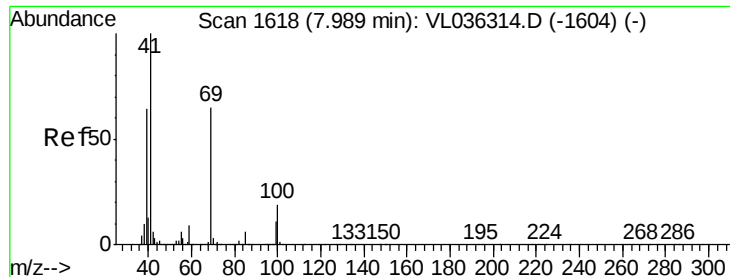
MMDadoda  
3/1/2021 10:08:35 AM



#42  
Bromodichloromethane  
Concen: 11.261 ppbv  
RT: 7.76 min Scan# 1547  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 62.8  | 51.1  | 76.7  |
| 127     | 7.6   | 6.3   | 9.5   |





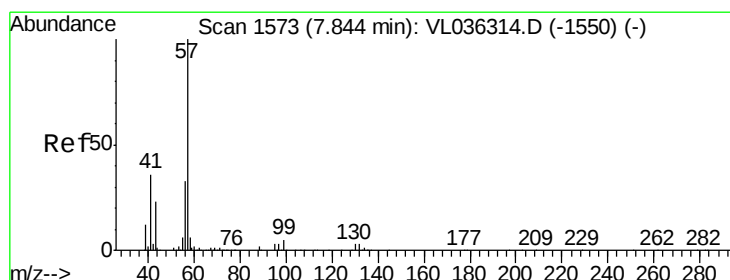
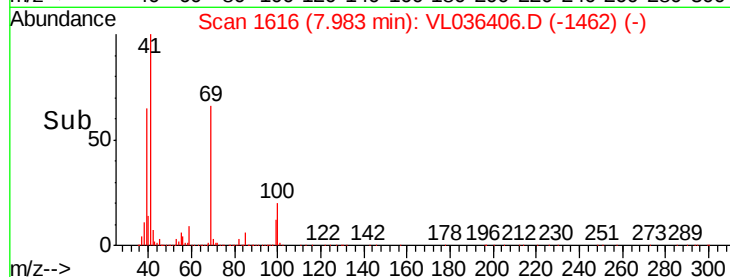
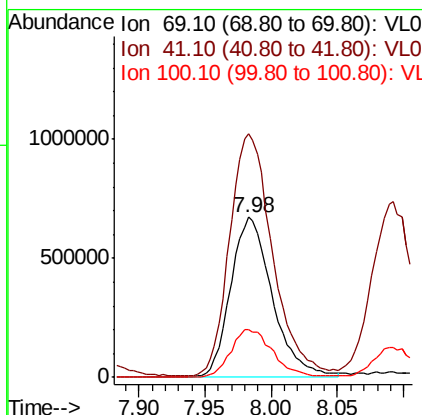
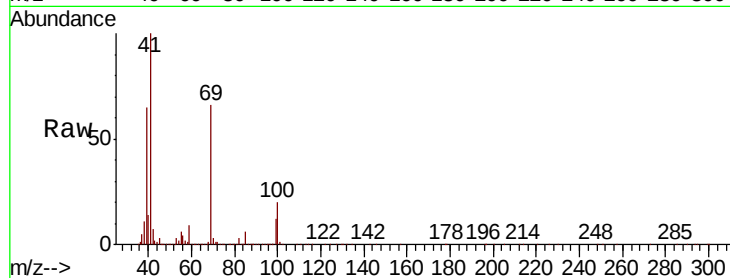
#43  
Methvl Methacrilate  
Concen: 12.106 ppbv  
RT: 7.98 min Scan# 1616  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

Tot Ion: 69 Resp: 1472581  
Ion Ratio Lower Upper  
69 100  
41 157.6 126.5 189.7  
100 30.3 23.1 34.7

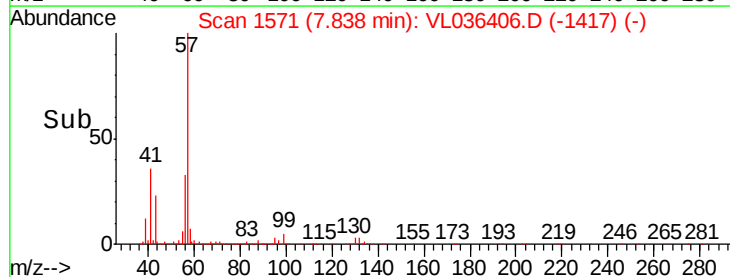
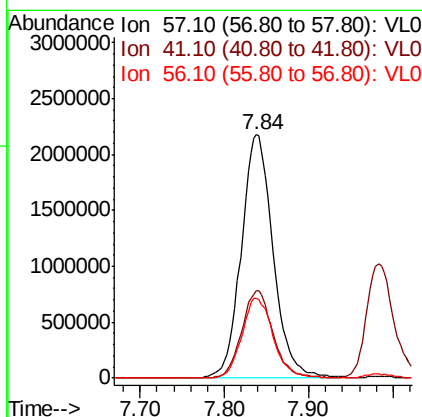
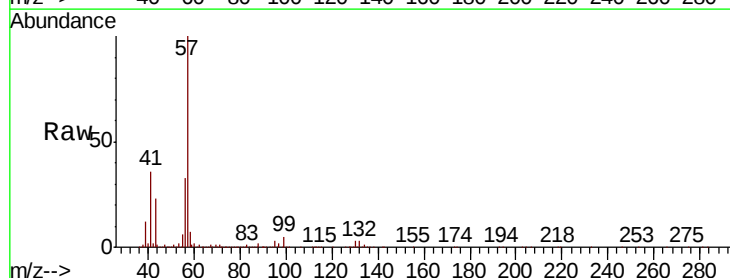
Manual Integrations  
APPROVED

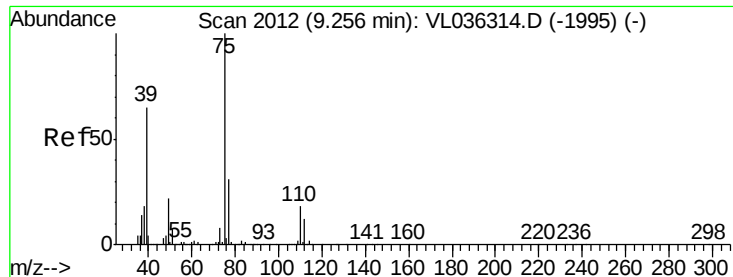
MMDadoda  
3/1/2021 10:08:35 AM



#44  
2,2,4-Trimethylpentane  
Concen: 10.915 ppbv  
RT: 7.84 min Scan# 1571  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Tgt Ion: 57 Resp: 5724640  
Ion Ratio Lower Upper  
57 100  
41 35.1 28.8 43.2  
56 32.2 25.8 38.6





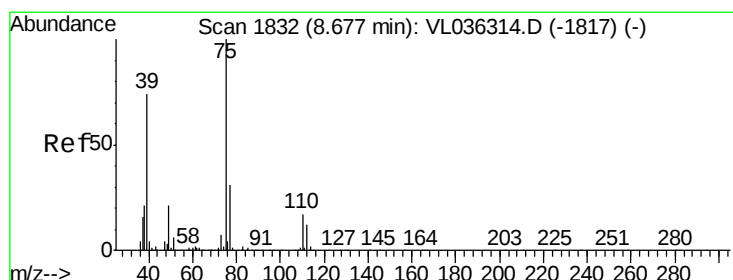
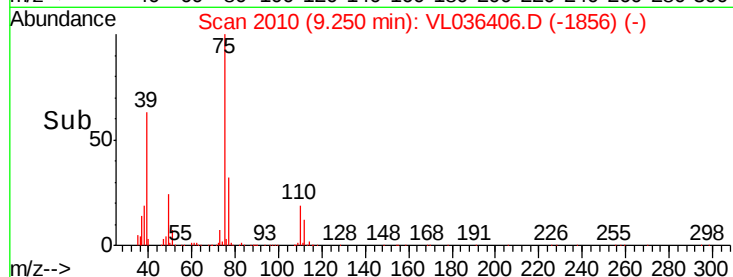
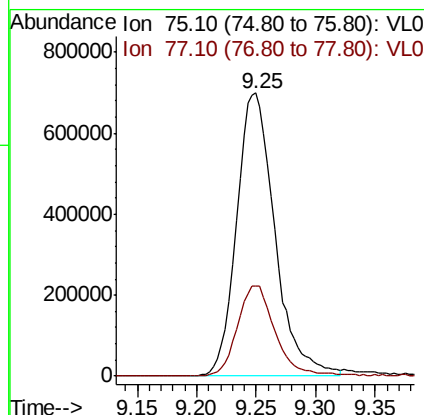
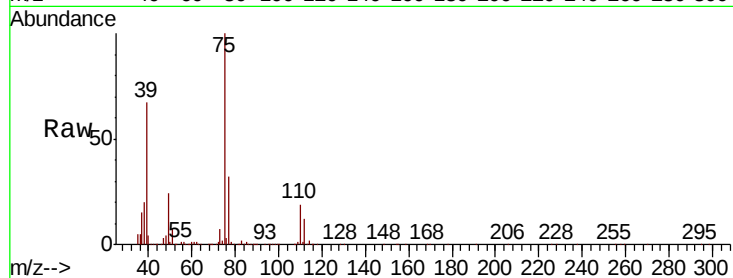
#45  
t-1,3-Dichloropropene  
Concen: 13.255 ppbv  
RT: 9.25 min Scan# 2010  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

Tot Ion: 75 Resp: 1555434  
Ion Ratio Lower Upper  
75 100  
77 31.9 24.6 37.0

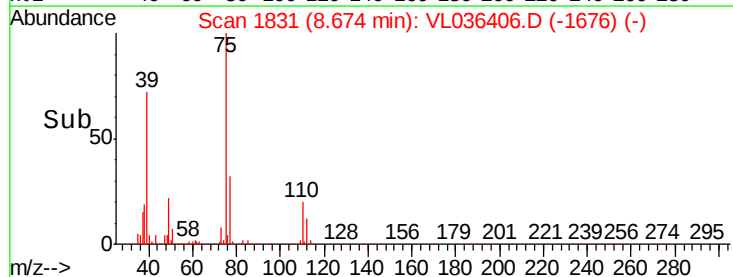
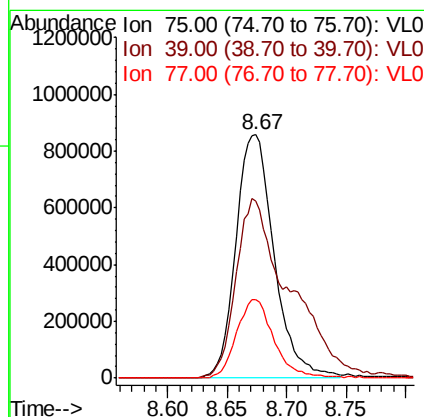
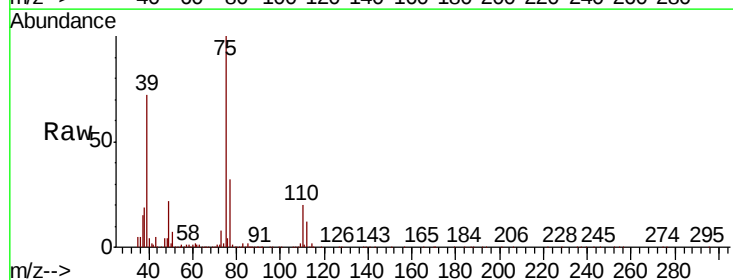
Manual Integrations  
APPROVED

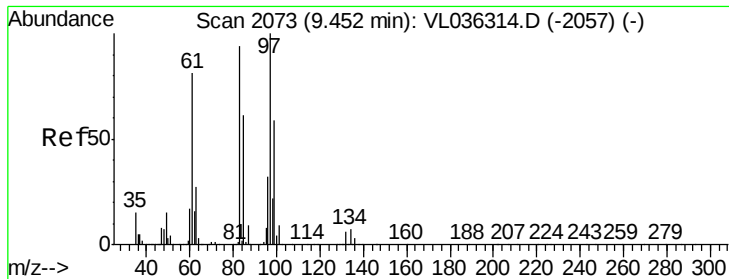
MMDadoda  
3/1/2021 10:08:35 AM



#46  
cis-1,3-Dichloropropene  
Concen: 12.841 ppbv  
RT: 8.67 min Scan# 1831  
Delta R.T. -0.00 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Tgt Ion: 75 Resp: 1914060  
Ion Ratio Lower Upper  
75 100  
39 72.1 59.2 88.8  
77 32.4 25.0 37.6





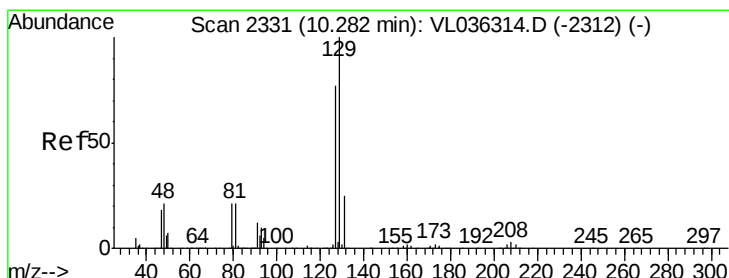
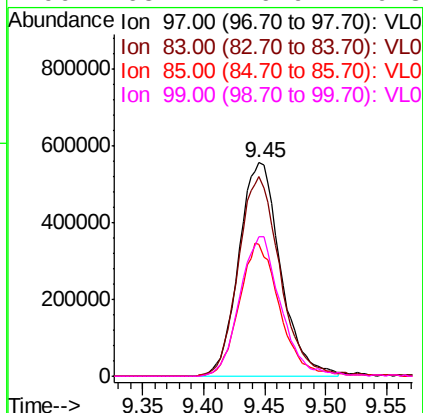
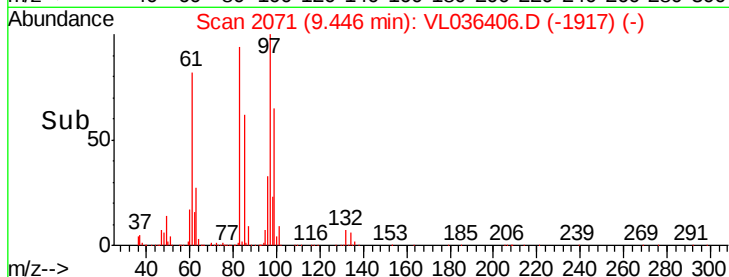
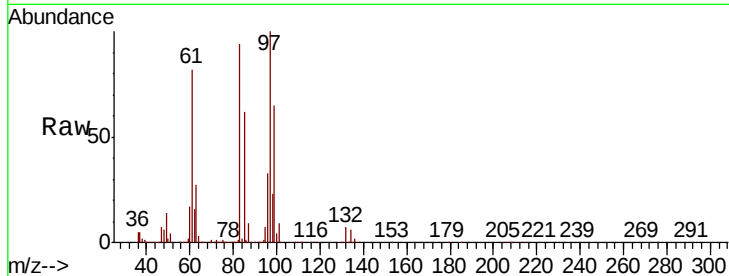
#47  
 1,1,2-Trichloroethane  
 Concen: 10.958 ppbv  
 RT: 9.45 min Scan# 2071  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0226ABS01

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 93.7 | 75.4  | 113.0 |       |
| 85      | 61.8 | 48.9  | 73.3  |       |
| 99      | 65.1 | 46.9  | 70.3  |       |

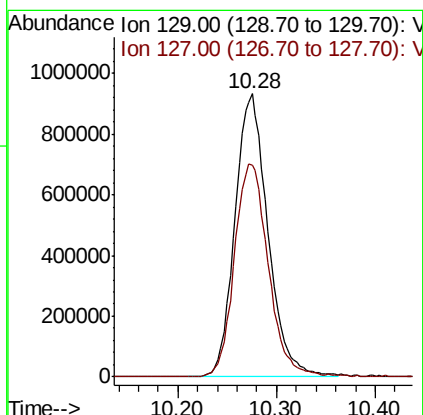
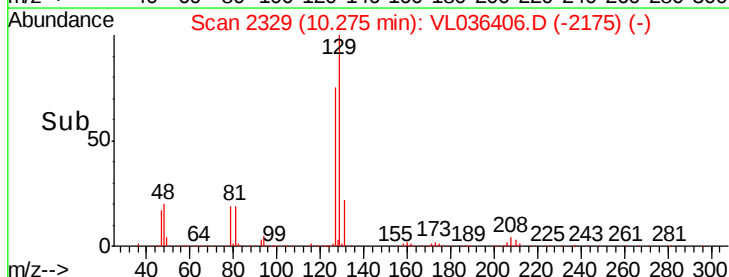
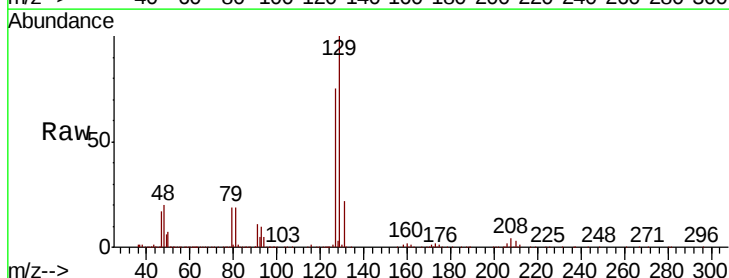
Manual Integrations  
 APPROVED

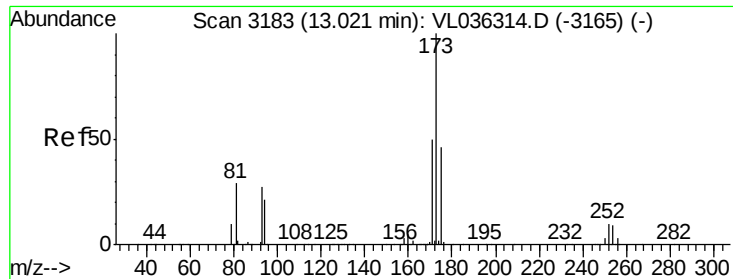
MMDadoda  
 3/1/2021 10:08:35 AM



#48  
 Dibromochloromethane  
 Concen: 12.110 ppbv  
 RT: 10.28 min Scan# 2329  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 78.1 | 39.1  | 117.2 |       |





#49

Bromoform

Concen: 11.888 ppbv

RT: 13.01 min Scan# 3180

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion:173 Resp: 1719637

Ion Ratio Lower Upper

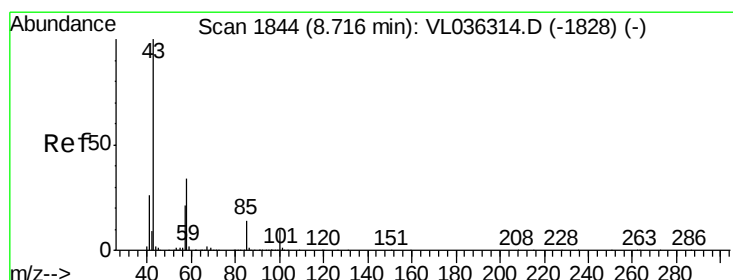
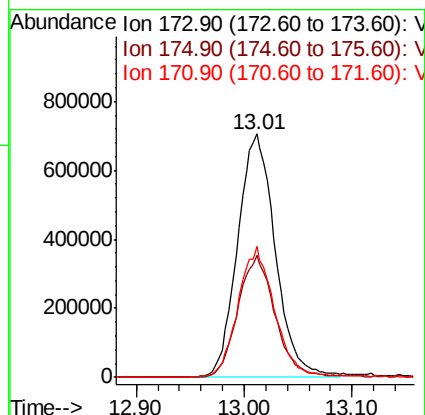
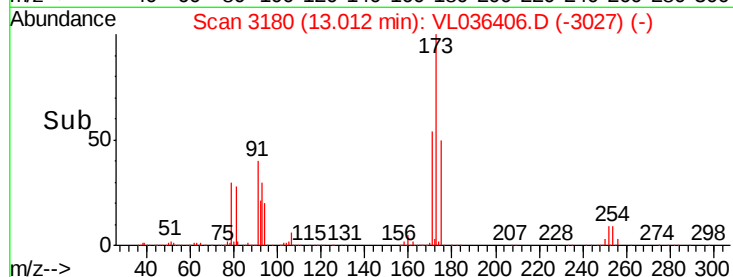
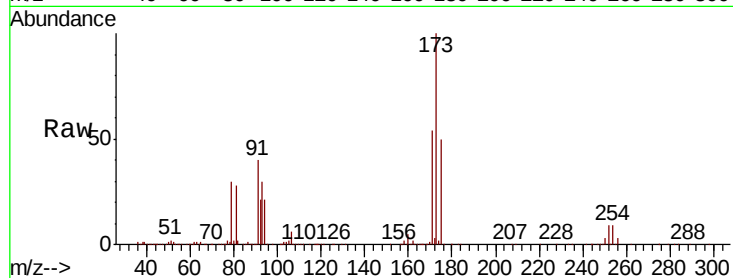
173 100

175 49.3 40.2 60.2

171 52.6 43.4 65.2

Manual Integrations  
APPROVED

MMDadoda  
3/1/2021 10:08:35 AM



#50

4-Methyl-2-Pentanone

Concen: 11.463 ppbv

RT: 8.71 min Scan# 1842

Delta R.T. -0.01 min

Lab File: VL036406.D

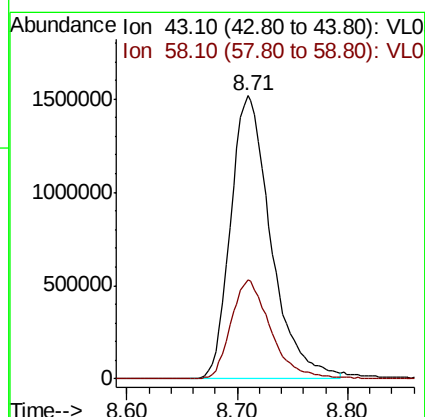
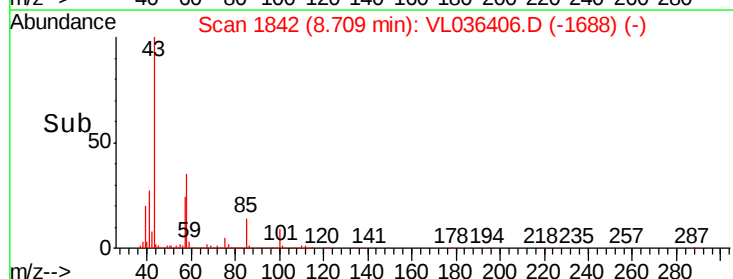
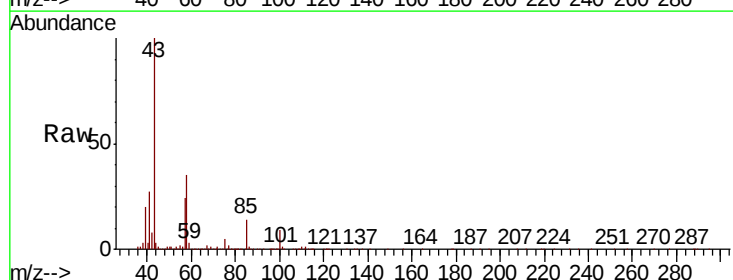
Acq: 26 Feb 2021 17:31

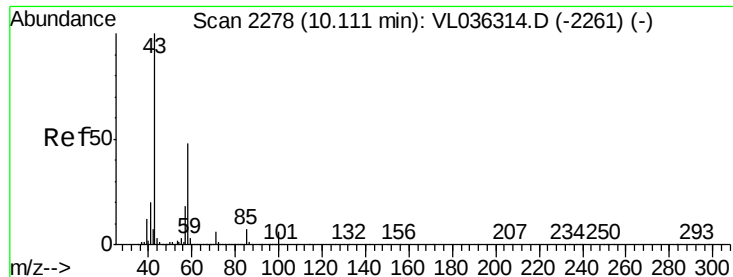
Tgt Ion: 43 Resp: 3839312

Ion Ratio Lower Upper

43 100

58 34.9 27.8 41.6





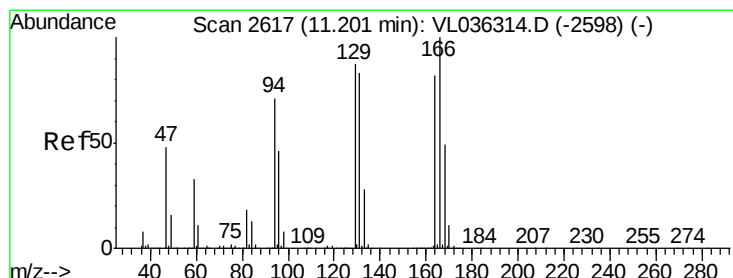
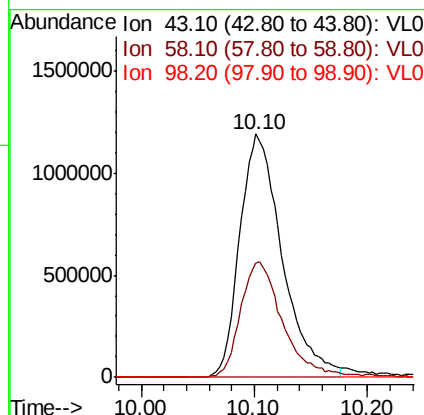
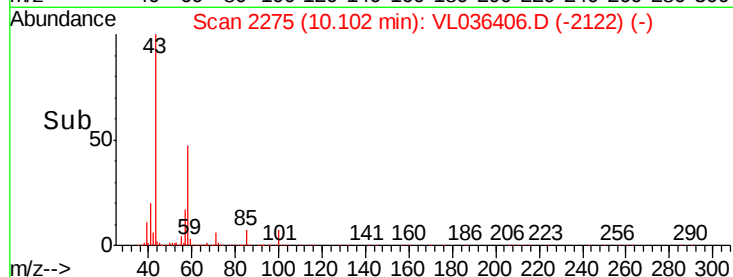
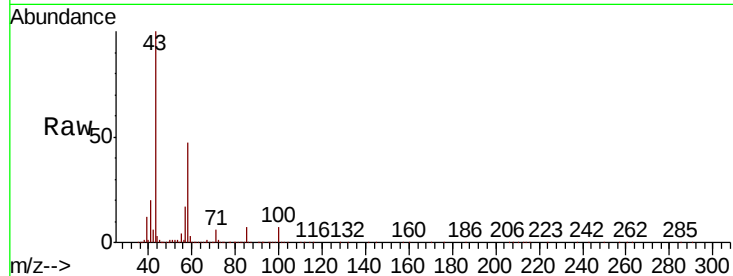
#51  
2-Hexanone  
Concen: 12.183 ppbv  
RT: 10.10 min Scan# 2275  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 47.9  | 38.7  | 58.1  |
| 98      | 0.3   | 0.4   | 0.6#  |

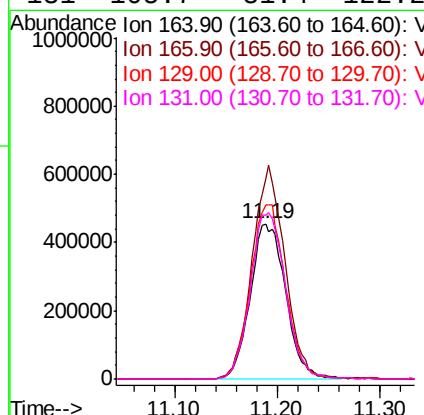
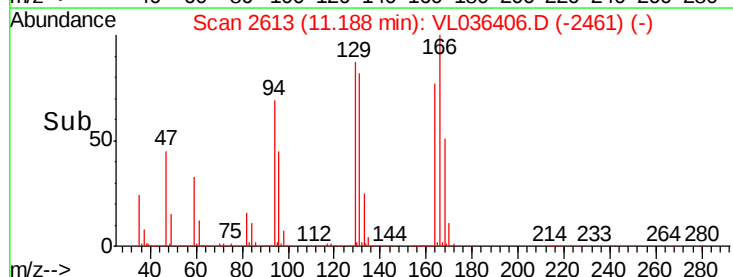
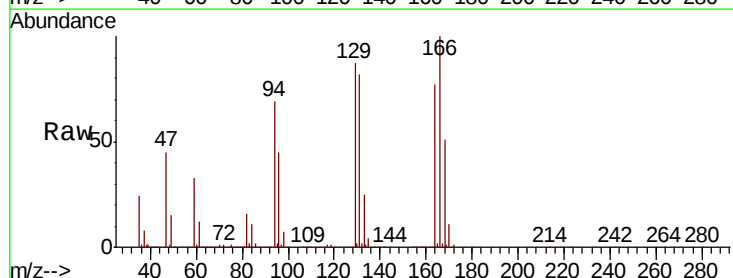
Manual Integrations  
APPROVED

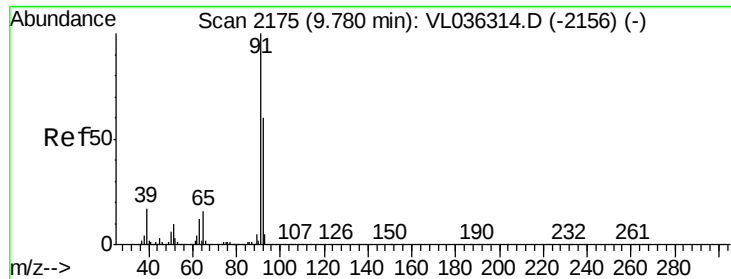
MMDadoda  
3/1/2021 10:08:35 AM



#52  
Tetrachloroethene  
Concen: 10.245 ppbv m  
RT: 11.19 min Scan# 2613  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 129.5 | 97.8  | 146.8 |
| 129     | 112.5 | 84.9  | 127.3 |
| 131     | 105.7 | 81.4  | 122.2 |





#53

Toluene

Concen: 11.713 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 91 Resp: 3659527

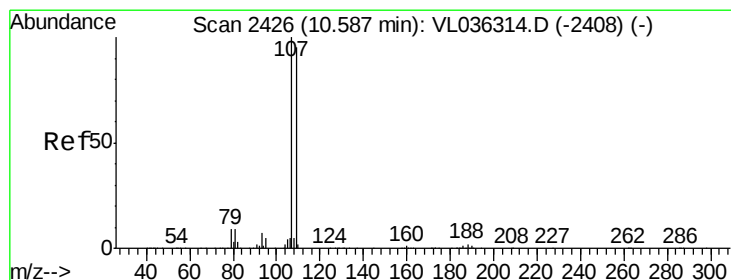
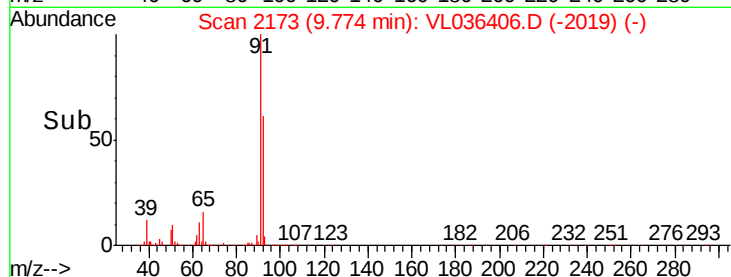
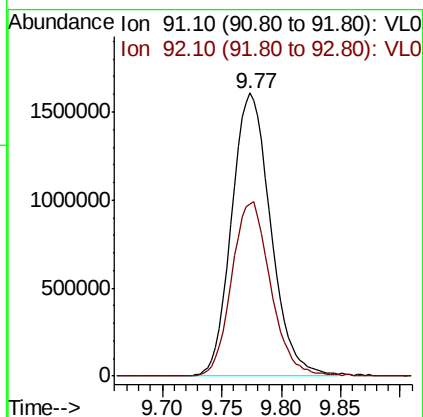
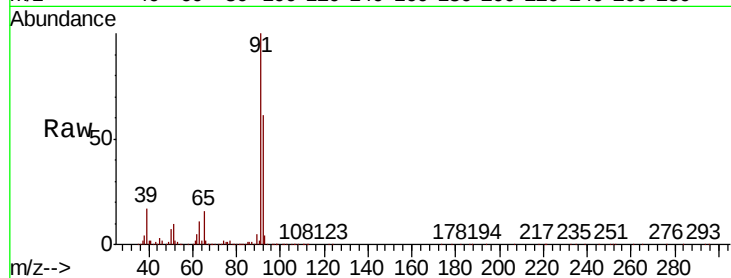
Ion Ratio Lower Upper

91 100

92 61.6 48.6 72.8

Manual Integrations  
APPROVED

MMDadoda  
3/1/2021 10:08:35 AM



#54

1,2-Dibromoethane

Concen: 11.171 ppbv

RT: 10.58 min Scan# 2424

Delta R.T. -0.01 min

Lab File: VL036406.D

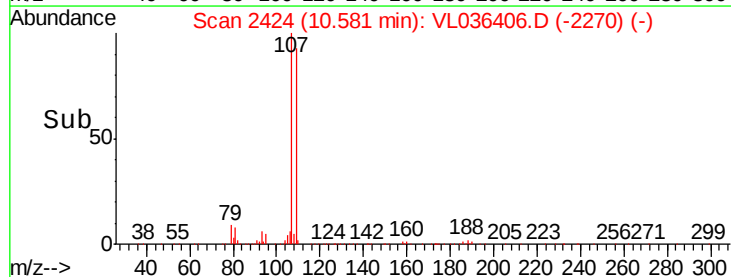
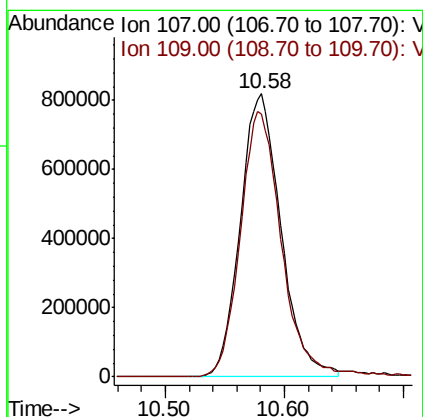
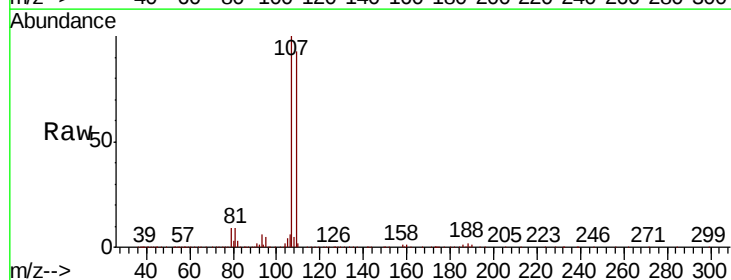
Acq: 26 Feb 2021 17:31

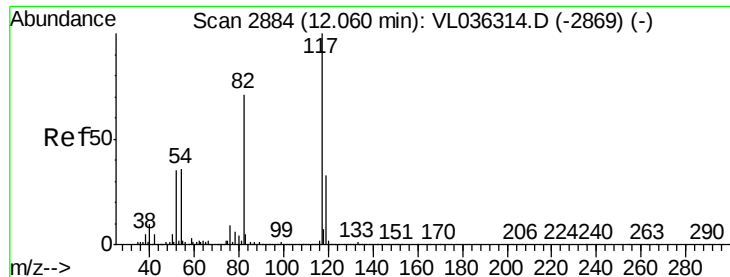
Tgt Ion: 107 Resp: 1935746

Ion Ratio Lower Upper

107 100

109 93.0 76.0 114.0





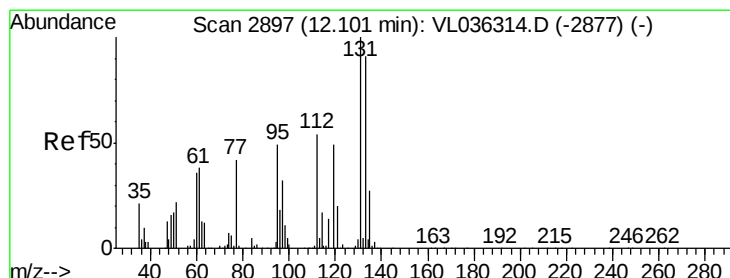
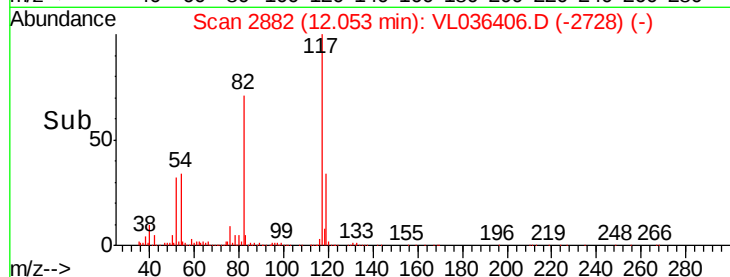
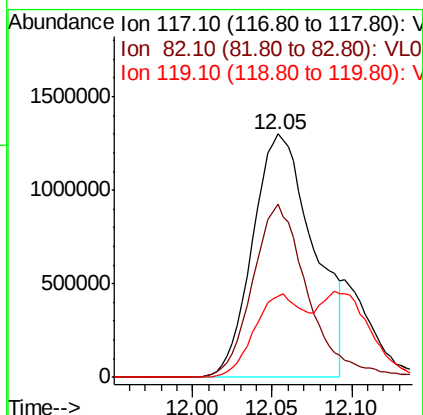
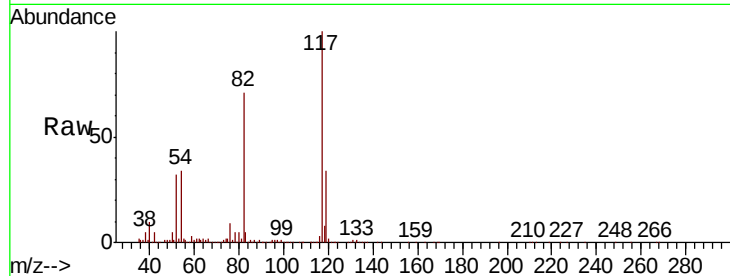
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.05 min Scan# 2882  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 65.3  | 59.1  | 88.7  |
| 119     | 29.6  | 46.3  | 69.5  |

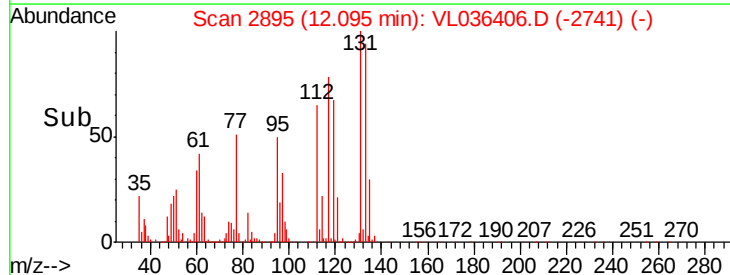
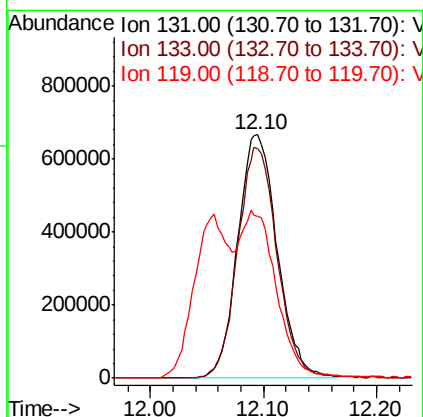
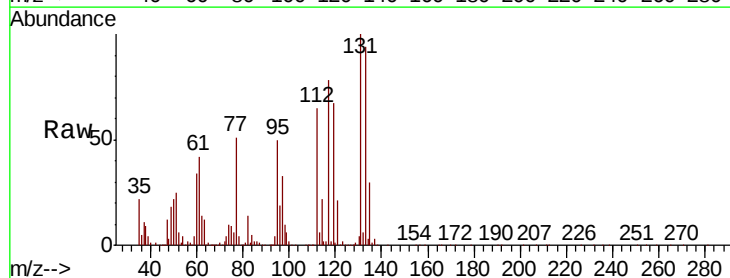
Manual Integrations  
APPROVED

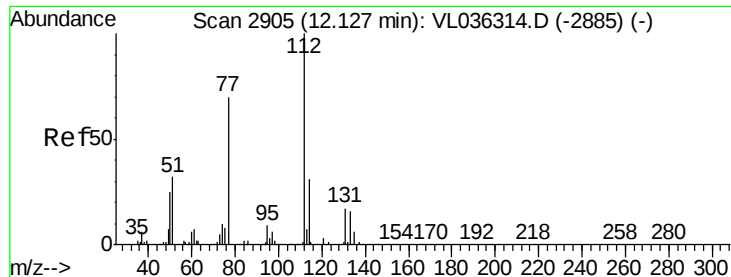
MMDadoda  
3/1/2021 10:08:35 AM



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.192 ppbv  
RT: 12.10 min Scan# 2895  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 95.4  | 76.0  | 114.0 |
| 119     | 70.5  | 115.1 | 172.7 |





#57

Chlorobenzene

Concen: 9.771 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

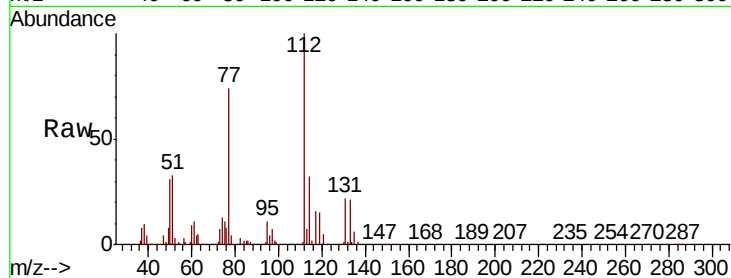
ClientSampleId :

VL0226ABS01

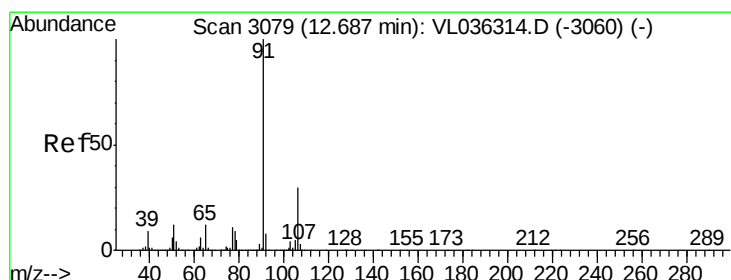
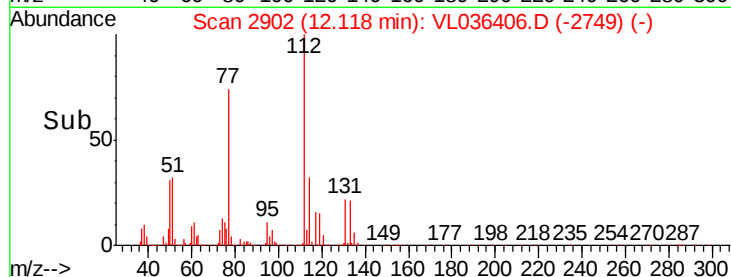
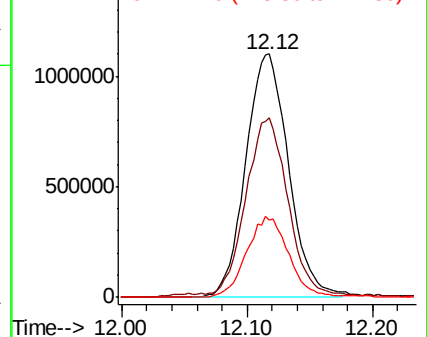
|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 112   | Resp: | 2605239 |
| Ion      | Ratio | Lower | Upper   |
| 112      | 100   |       |         |
| 77       | 72.8  | 56.1  | 84.1    |
| 114      | 31.6  | 28.3  | 34.5    |

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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: 10.395 ppbv

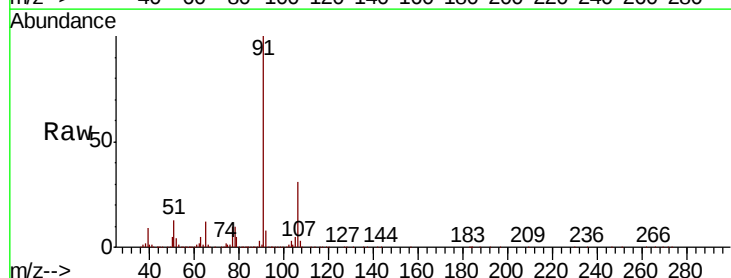
RT: 12.68 min Scan# 3076

Delta R.T. -0.01 min

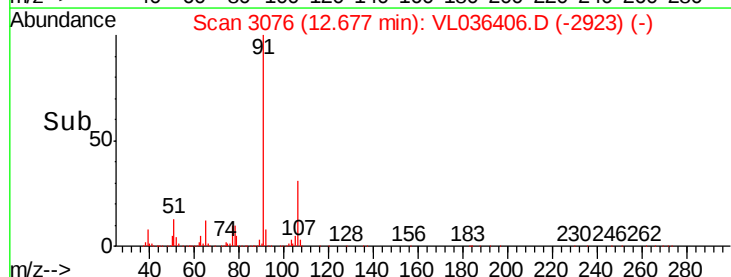
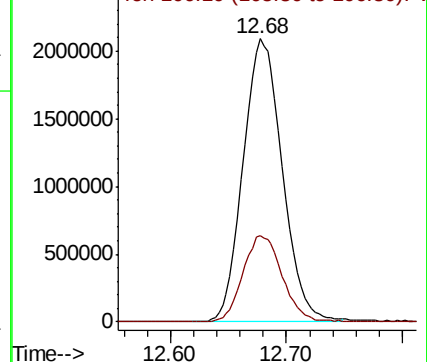
Lab File: VL036406.D

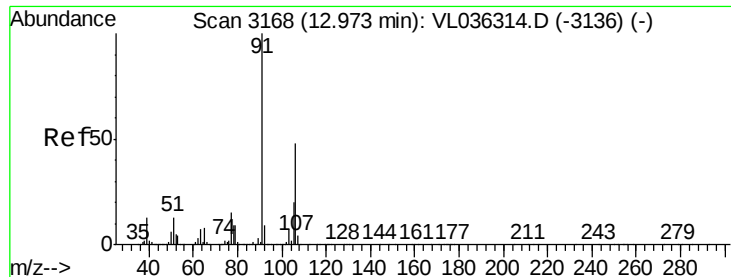
Acq: 26 Feb 2021 17:31

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 4911994 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 106      | 30.6  | 23.8  | 35.6    |



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 19.948 ppbv m

RT: 12.96 min Scan# 3165

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 91 Resp: 8279365

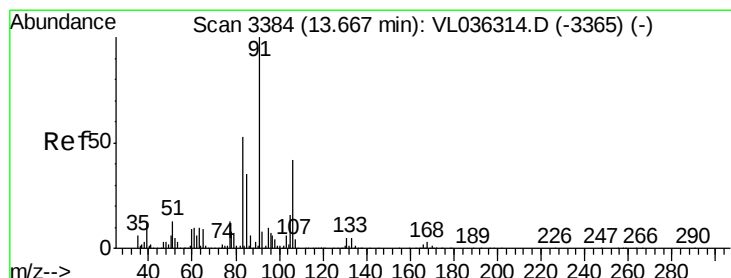
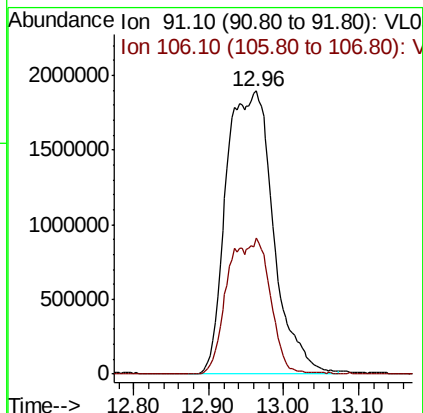
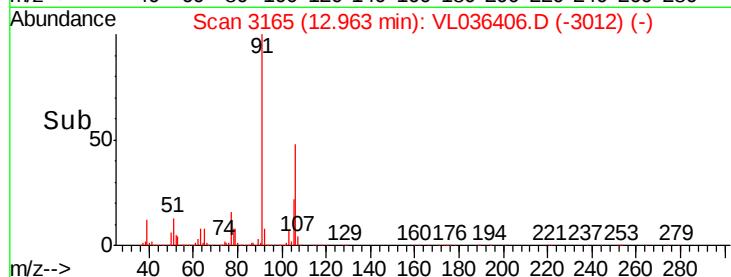
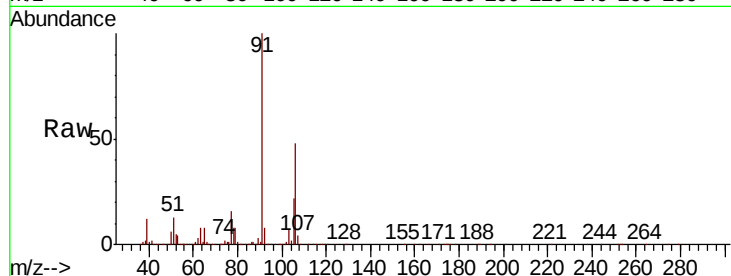
Ion Ratio Lower Upper

91 100

106 43.4 34.2 51.2

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#60

o-Xylene

Concen: 9.773 ppbv

RT: 13.66 min Scan# 3382

Delta R.T. -0.01 min

Lab File: VL036406.D

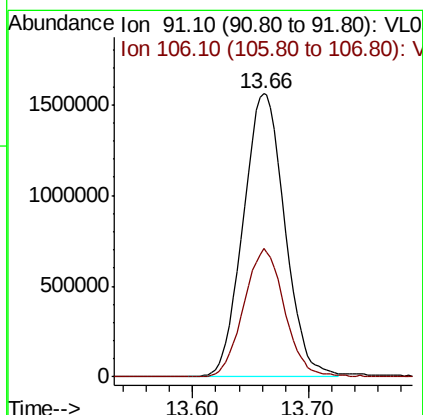
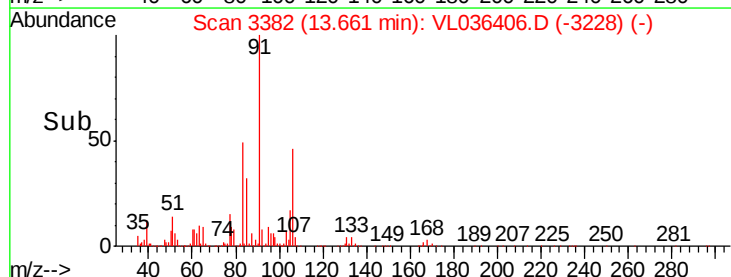
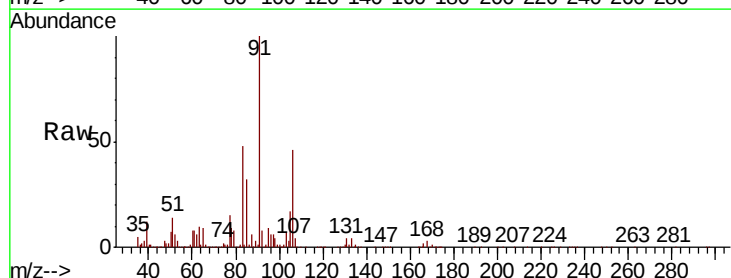
Acq: 26 Feb 2021 17:31

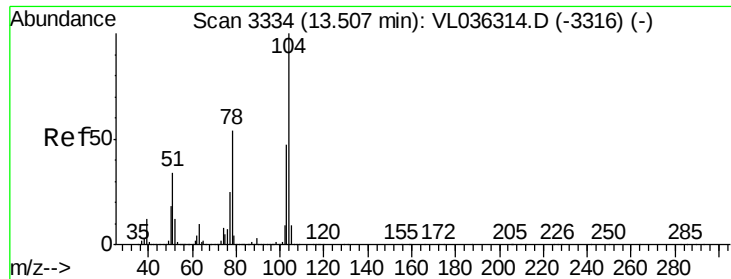
Tgt Ion: 91 Resp: 3878351

Ion Ratio Lower Upper

91 100

106 44.6 22.0 66.0





#61

Stvrene

Concen: 11.246 ppbv

RT: 13.50 min Scan# 3331

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion:104 Resp: 2765983

Ion Ratio Lower Upper

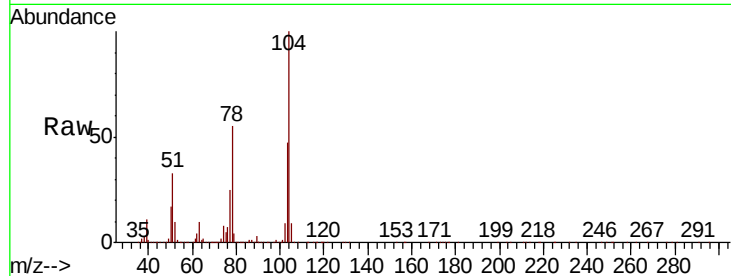
104 100

78 56.0 46.2 69.2

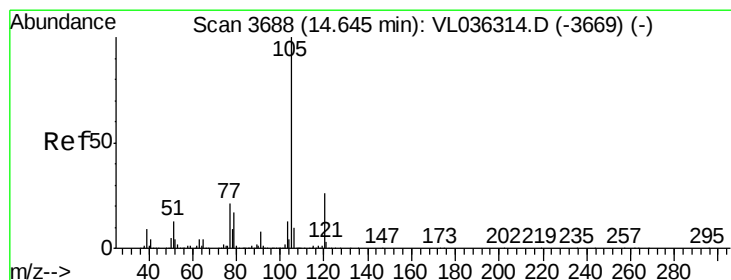
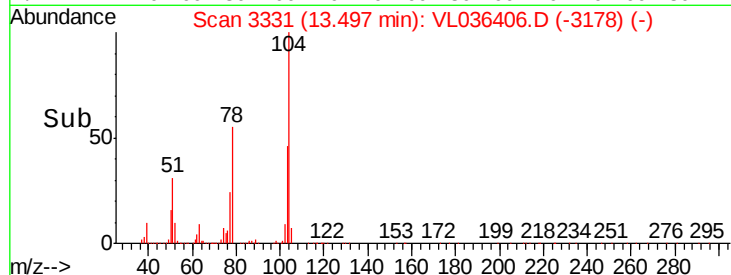
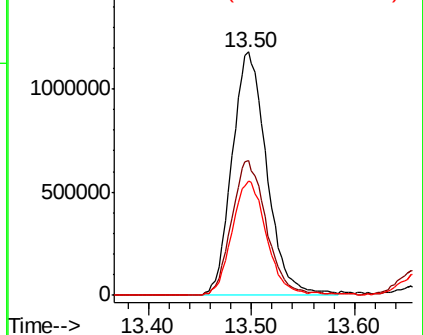
103 47.4 38.3 57.5

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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: 9.706 ppbv

RT: 14.64 min Scan# 3686

Delta R.T. -0.01 min

Lab File: VL036406.D

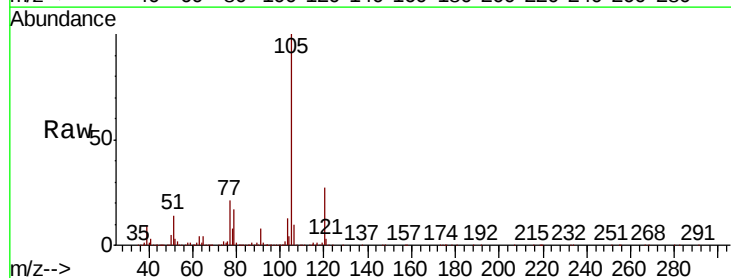
Acq: 26 Feb 2021 17:31

Tgt Ion:105 Resp: 5773664

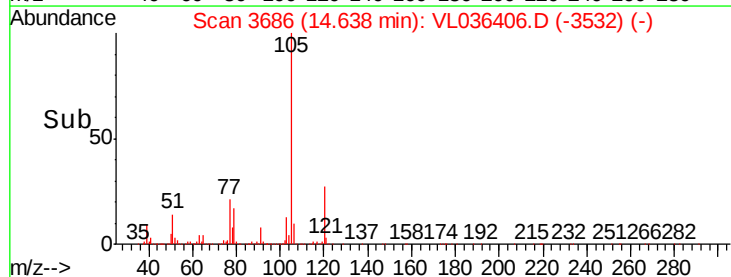
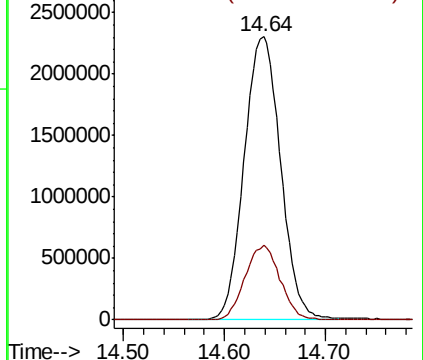
Ion Ratio Lower Upper

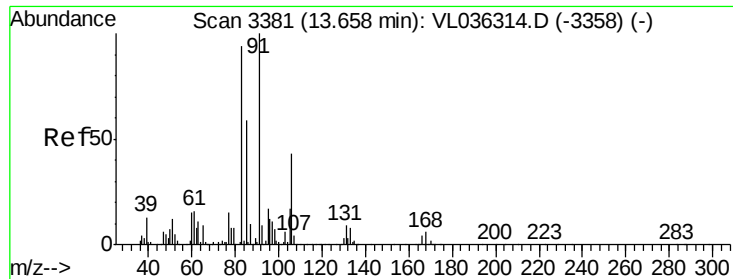
105 100

120 25.5 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V  
Ion 120.20 (119.90 to 120.90): V





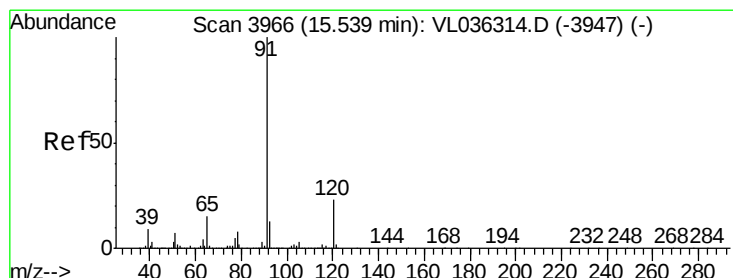
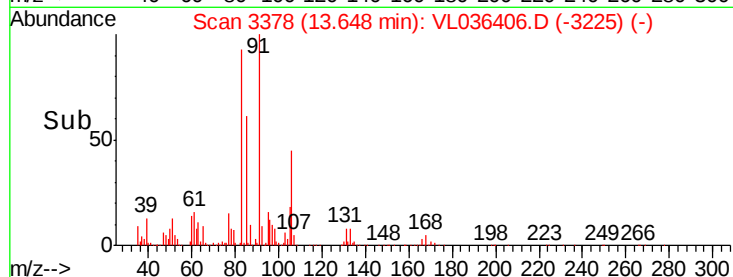
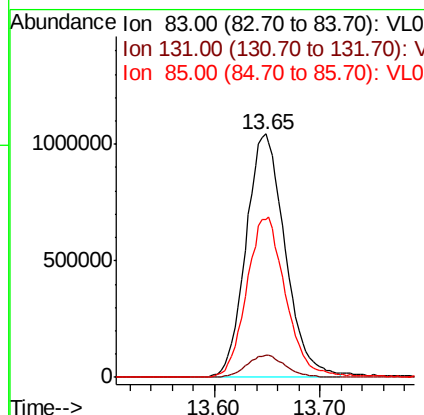
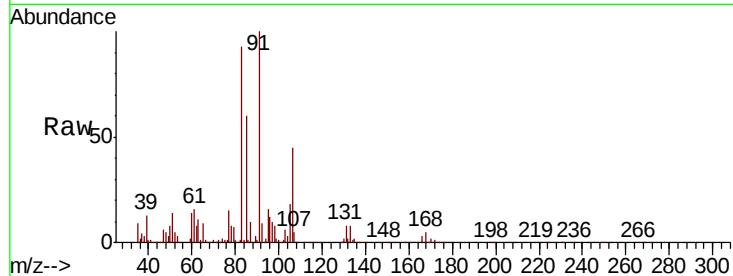
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 8.610 ppbv  
 RT: 13.65 min Scan# 3378  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0226ABS01

| Tot Ion   | 83   | Resp  | 2696089 |
|-----------|------|-------|---------|
| Ion Ratio | 100  | Lower | Upper   |
| 83        | 100  |       |         |
| 131       | 9.1  | 4.7   | 14.0    |
| 85        | 66.4 | 33.0  | 98.9    |

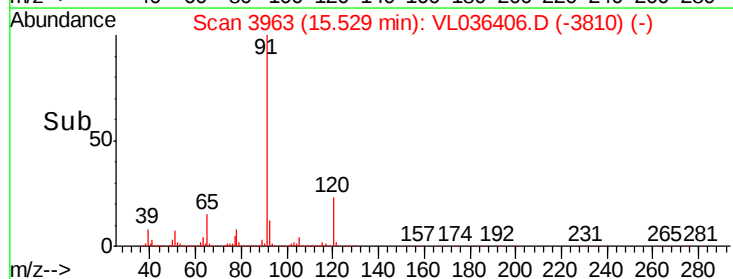
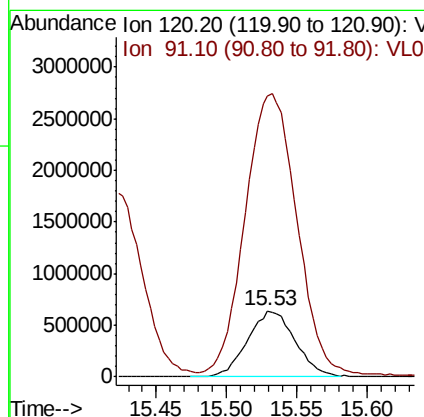
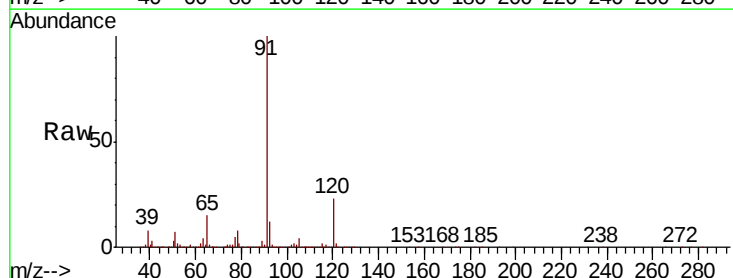
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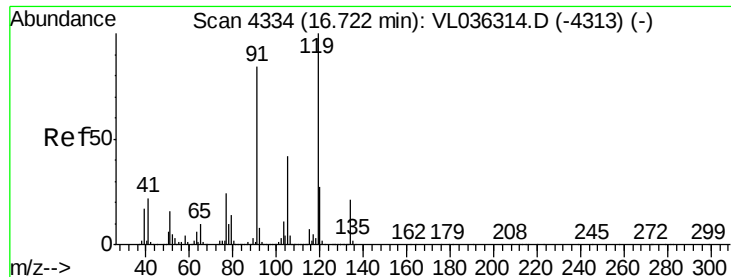
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#64  
 n-propylbenzene  
 Concen: 10.268 ppbv  
 RT: 15.53 min Scan# 3963  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

| Tgt Ion                                              | 120   | Resp  | 1503195 |
|------------------------------------------------------|-------|-------|---------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100   | Lower | Upper   |
| 120                                                  | 100   |       |         |
| 91                                                   | 474.6 | 387.2 | 580.8   |





#65

tert-Butylbenzene

Concen: 9.623 ppbv

RT: 16.72 min Scan# 4333

Delta R.T. -0.00 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion:119 Resp: 4897641

Ion Ratio Lower Upper

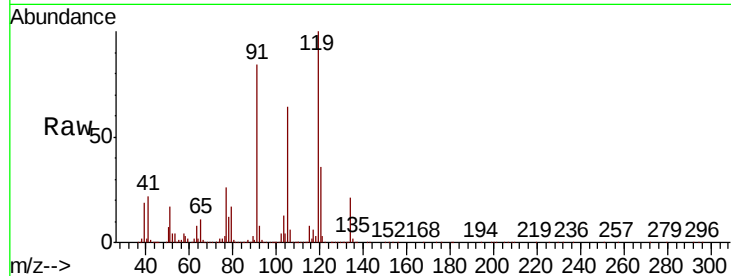
119 100

91 85.7 70.5 105.7

134 20.0 15.8 23.8

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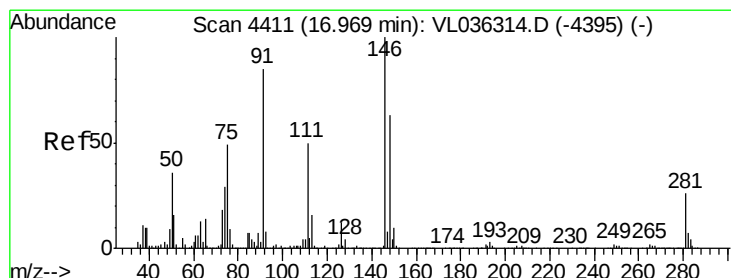
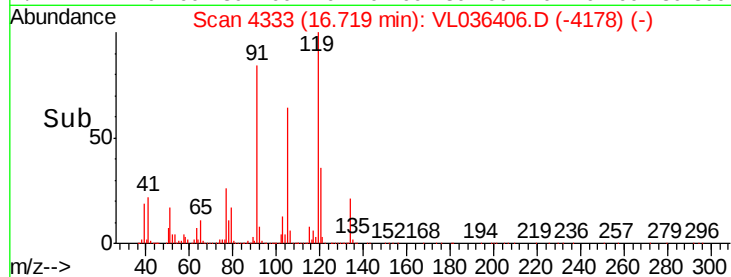
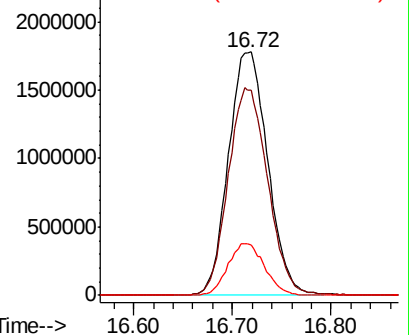
MMDadoda  
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.920 ppbv

RT: 16.96 min Scan# 4408

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

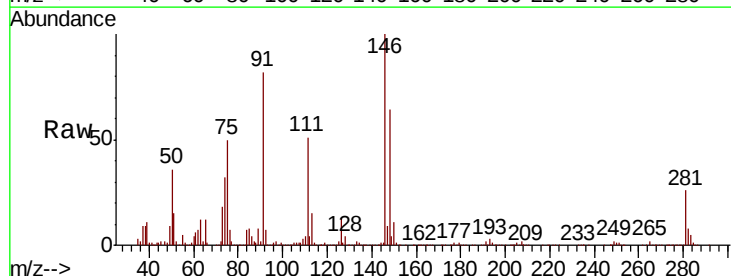
Tgt Ion: 91 Resp: 1649290

Ion Ratio Lower Upper

91 100

126 16.8 12.9 19.3

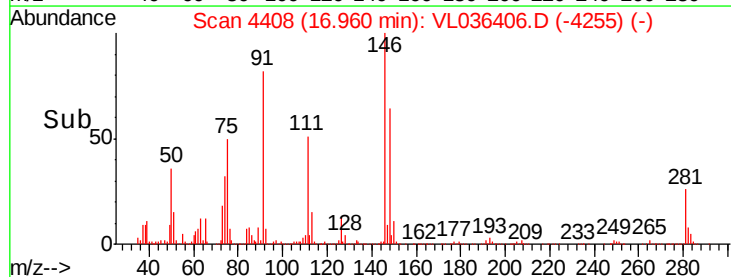
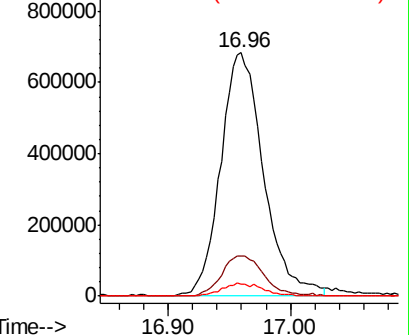
128 5.1 4.2 6.2

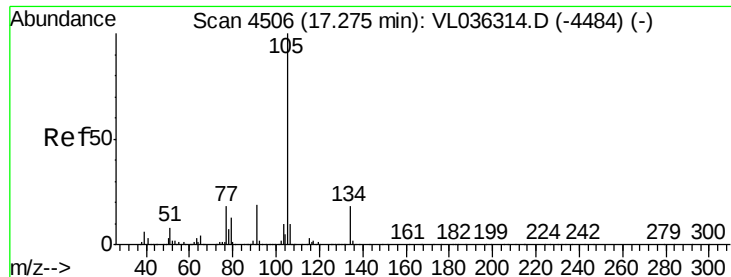


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.503 ppbv

RT: 17.27 min Scan# 4503

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 105 Resp: 6975340

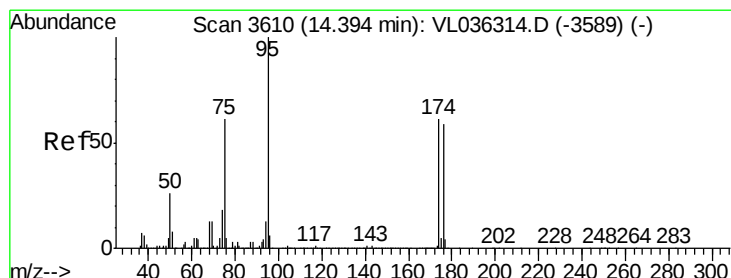
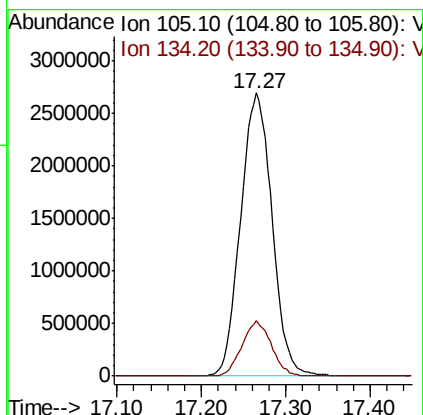
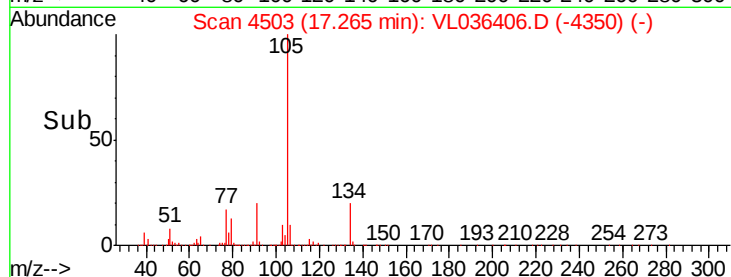
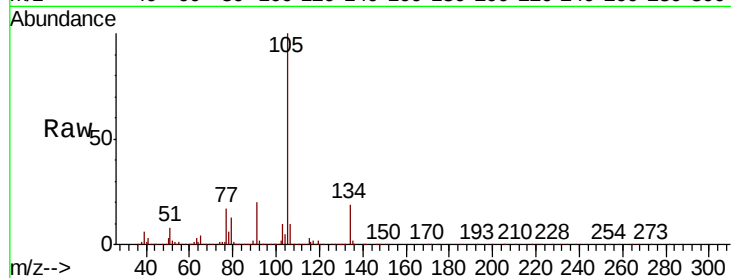
Ion Ratio Lower Upper

105 100

134 18.3 14.2 21.4

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.301 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

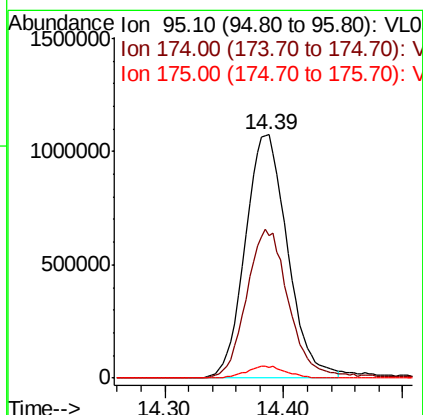
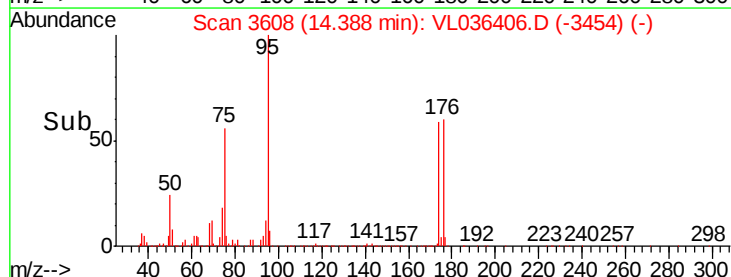
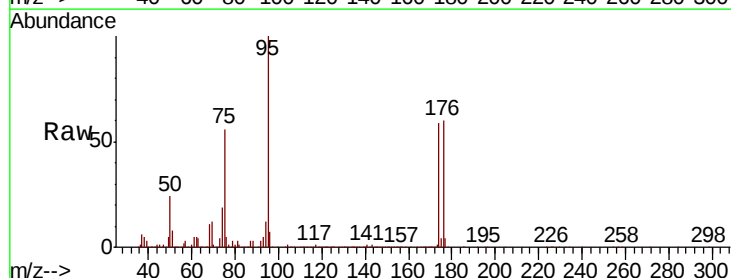
Tgt Ion: 95 Resp: 2640924

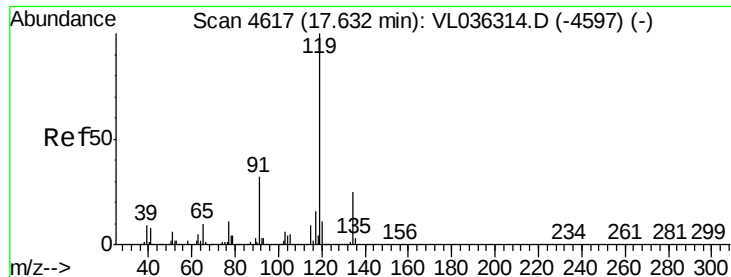
Ion Ratio Lower Upper

95 100

174 62.6 49.8 74.6

175 4.8 3.7 5.5





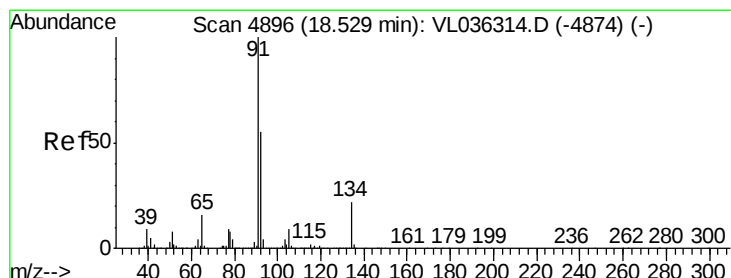
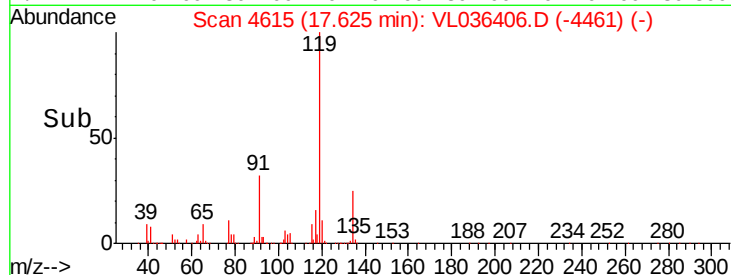
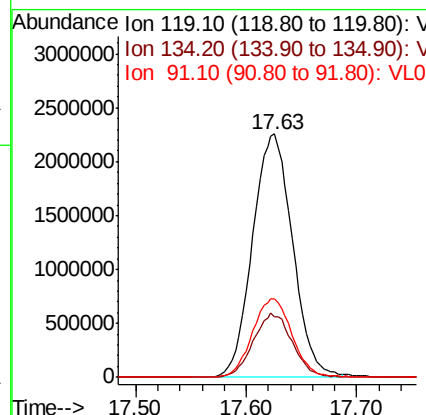
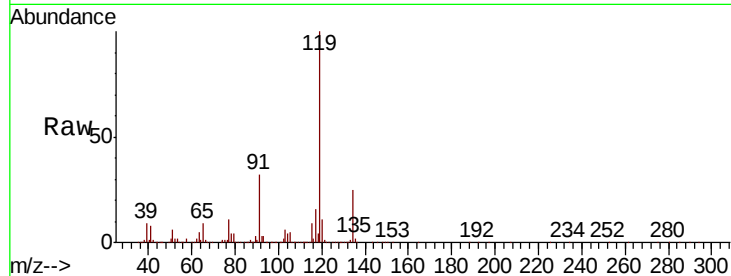
#69  
 p-Isopropyltoluene  
 Concen: 10.021 ppbv  
 RT: 17.63 min Scan# 4615  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0226ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.7  | 20.1  | 30.1  |
| 91      | 32.0  | 25.8  | 38.6  |

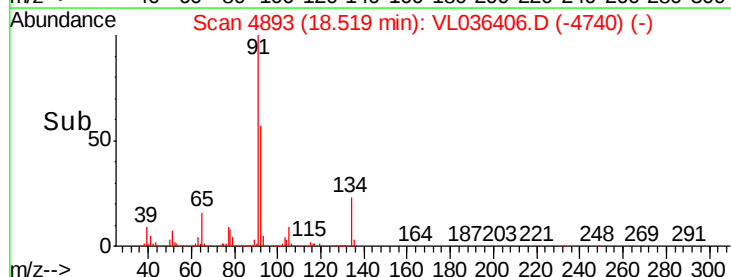
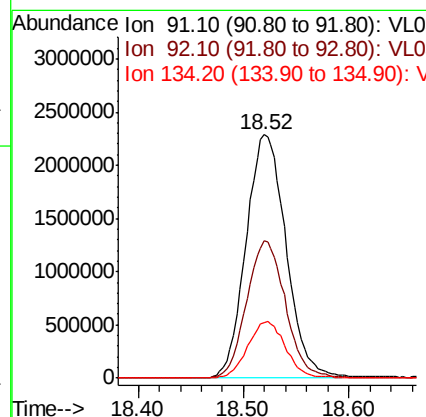
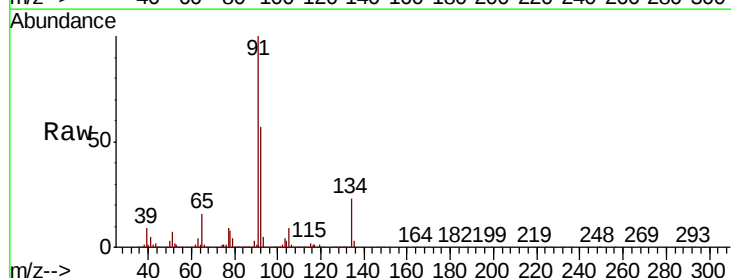
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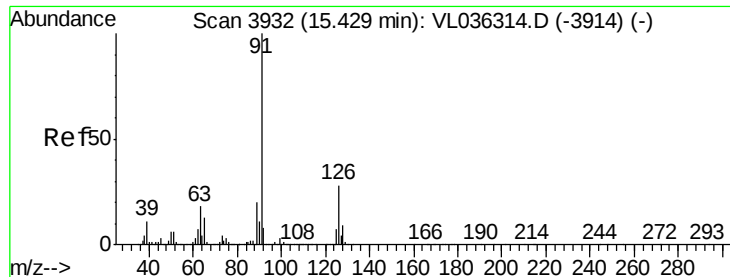
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#70  
 n-Butylbenzene  
 Concen: 9.926 ppbv  
 RT: 18.52 min Scan# 4893  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 55.1  | 43.7  | 65.5  |
| 134     | 22.1  | 17.4  | 26.0  |





#71

2-Chlorotoluene

Concen: 9.751 ppbv

RT: 15.42 min Scan# 3930

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion: 91 Resp: 4446580

Ion Ratio Lower Upper

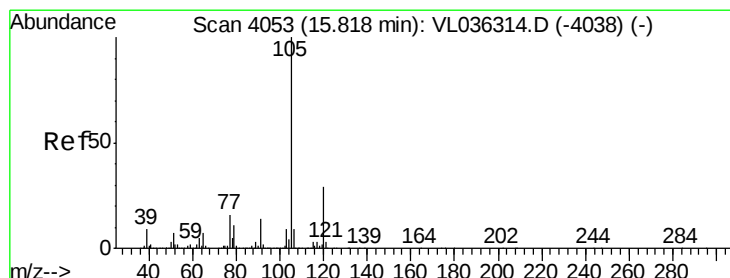
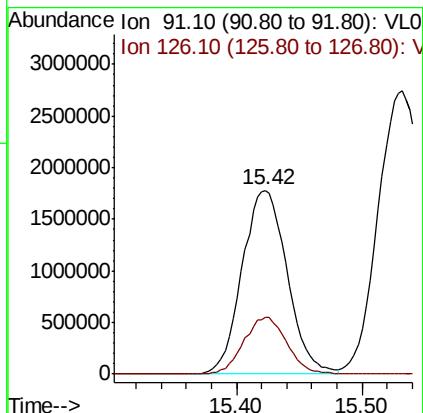
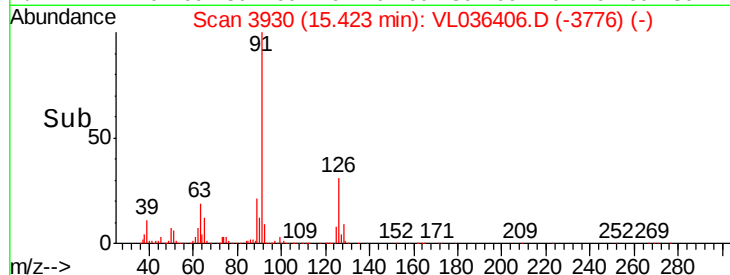
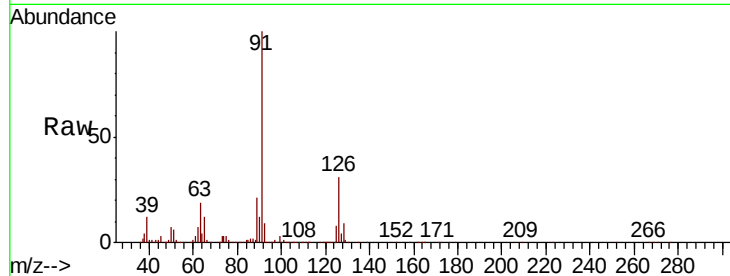
91 100

126 30.1 11.5 46.1

Manual Integrations  
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#72

4-Ethyltoluene

Concen: 10.067 ppbv

RT: 15.81 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Tgt Ion: 105 Resp: 4445963

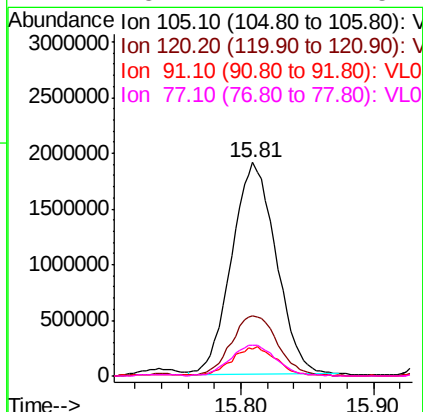
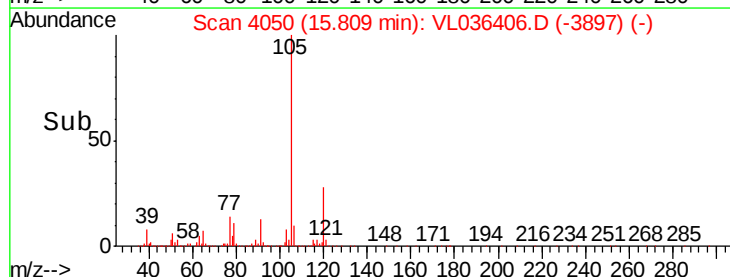
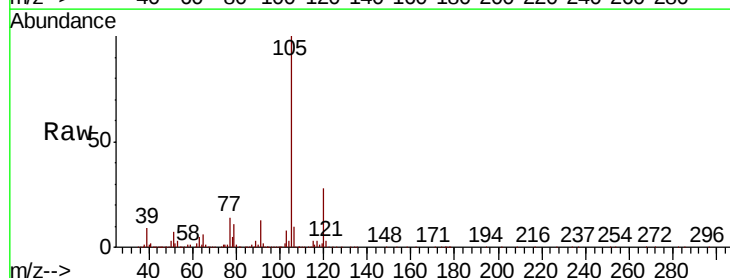
Ion Ratio Lower Upper

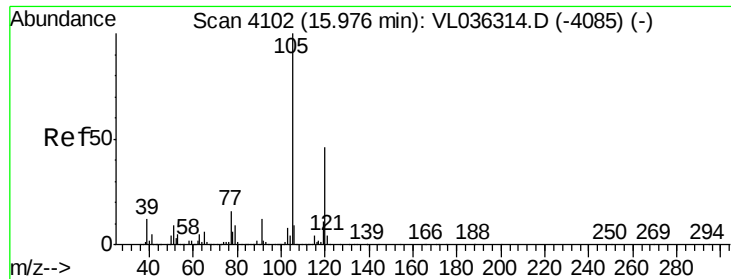
105 100

120 29.6 23.2 34.8

91 13.3 11.0 16.4

77 15.2 12.2 18.4





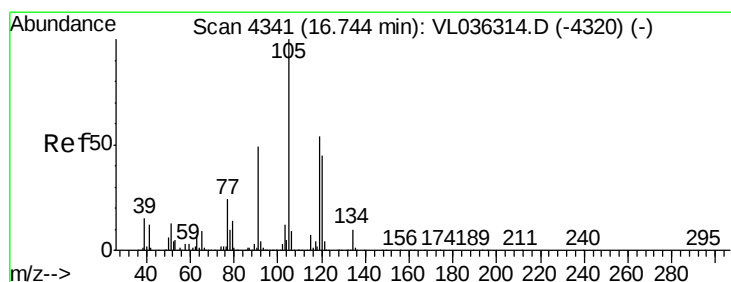
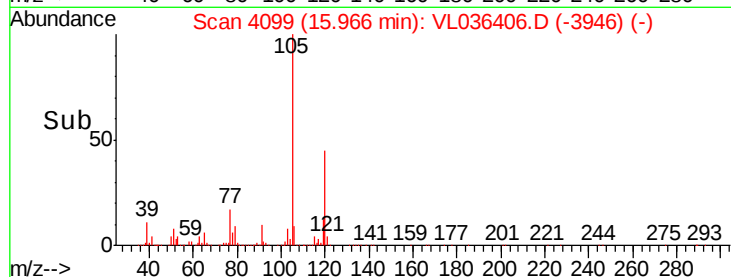
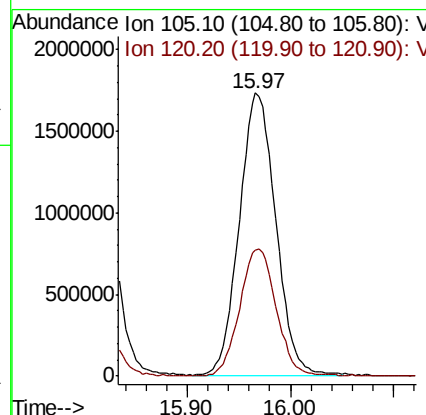
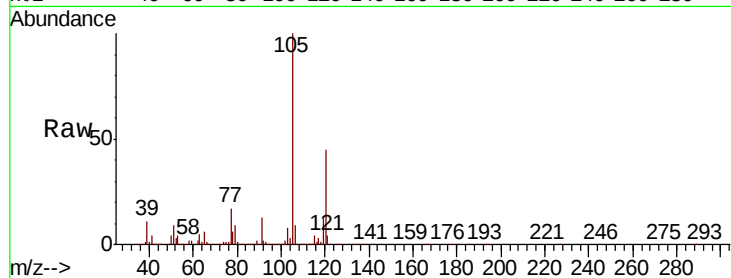
#73  
 1,3,5-Trimethylbenzene  
 Concen: 9.891 ppbv  
 RT: 15.97 min Scan# 4099  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0226ABS01

Tot Ion:105 Resp: 4234293  
 Ion Ratio Lower Upper  
 105 100  
 120 44.6 36.9 55.3

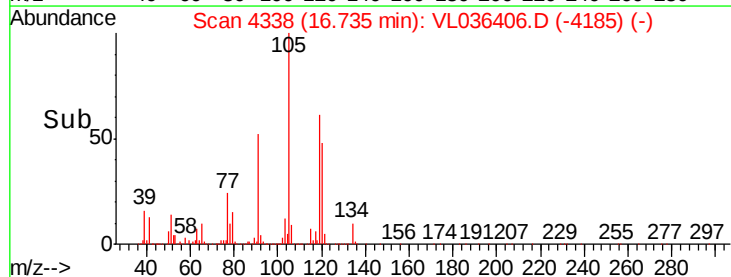
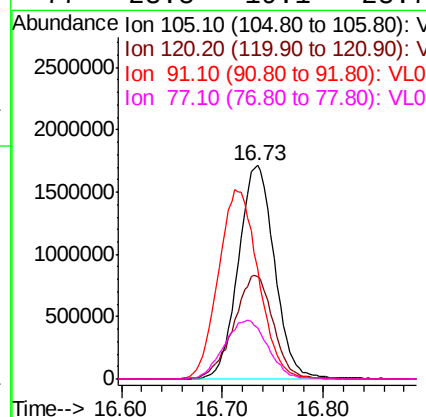
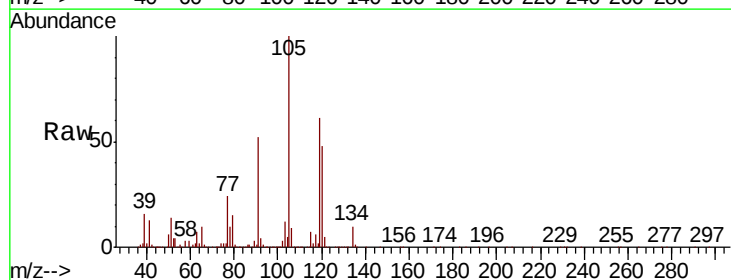
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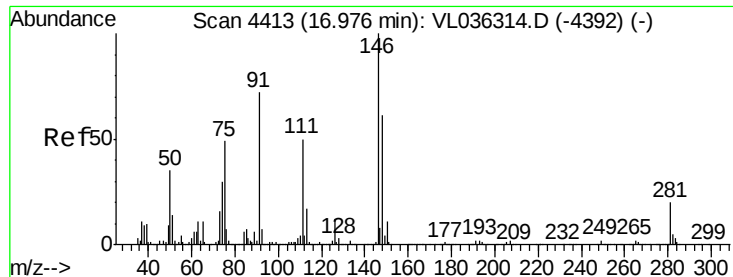
MMDadoda  
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#74  
 1,2,4-Trimethylbenzene  
 Concen: 9.715 ppbv  
 RT: 16.73 min Scan# 4338  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

Tgt Ion:105 Resp: 4246186  
 Ion Ratio Lower Upper  
 105 100  
 120 47.4 35.8 53.6  
 91 51.6 39.8 59.6  
 77 23.8 19.1 28.7





#75

1,3-Dichlorobenzene

Concen: 9.590 ppbv

RT: 16.97 min Scan# 4410

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

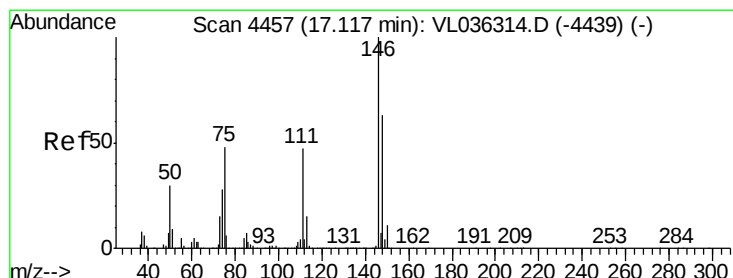
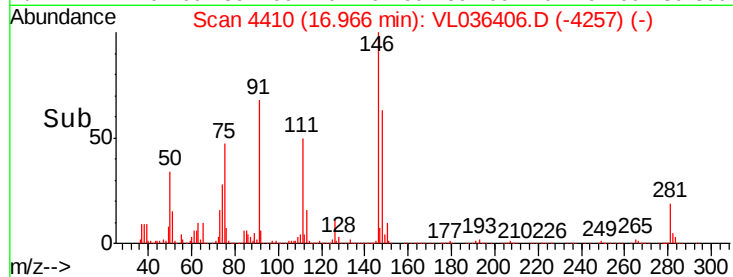
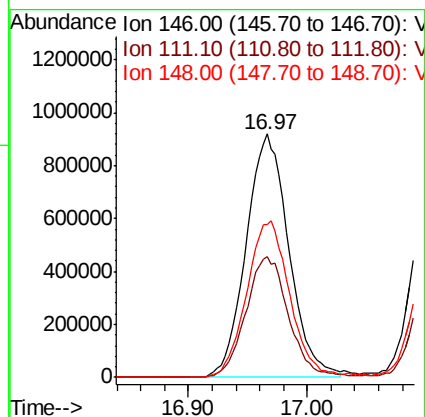
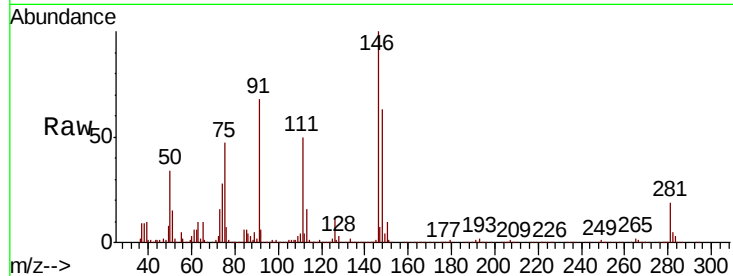
ClientSampleId :

VL0226ABS01

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 146   | Resp: | 2274950 |
| Ion      | Ratio | Lower | Upper   |
| 146      | 100   |       |         |
| 111      | 49.8  | 24.9  | 74.6    |
| 148      | 64.9  | 31.9  | 95.9    |

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#76

1,4-Dichlorobenzene

Concen: 9.087 ppbv

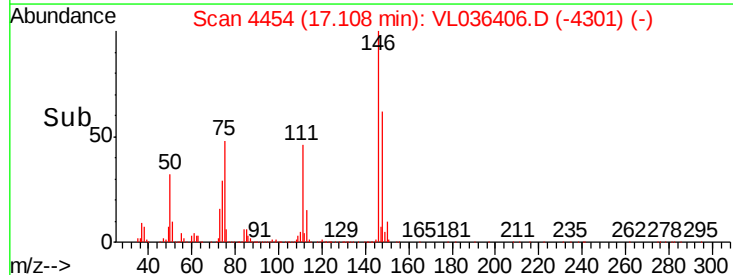
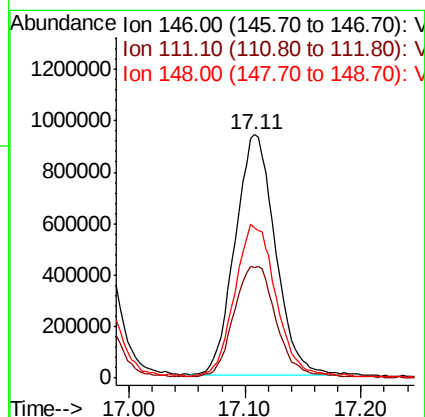
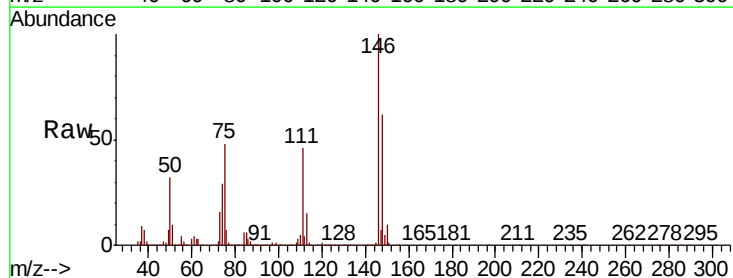
RT: 17.11 min Scan# 4454

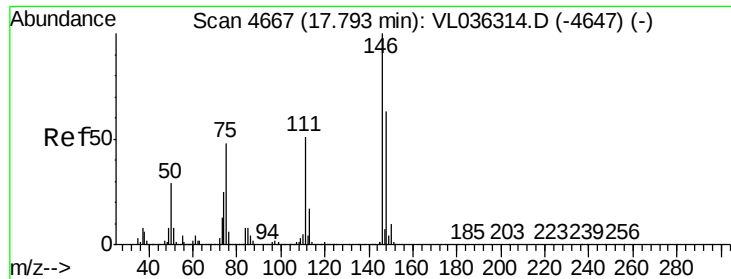
Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 146   | Resp: | 2238499 |
| Ion      | Ratio | Lower | Upper   |
| 146      | 100   |       |         |
| 111      | 50.2  | 23.6  | 71.0    |
| 148      | 67.1  | 31.6  | 95.0    |





#77

1,2-Dichlorobenzene

Concen: 9.566 ppbv

RT: 17.79 min Scan# 4666

Delta R.T. -0.00 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

Instrument :

MSVOA\_L

ClientSampleId :

VL0226ABS01

Tot Ion:146 Resp: 2251200

Ion Ratio Lower Upper

146 100

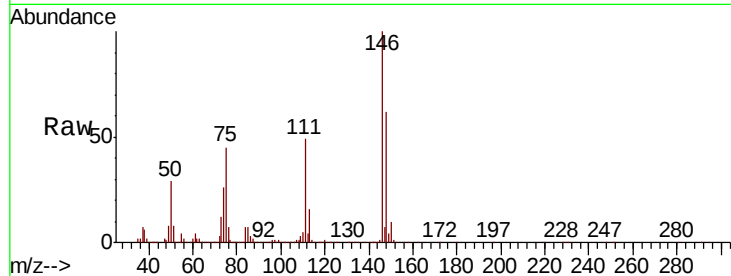
111 51.3 25.9 77.8

148 65.6 32.5 97.4

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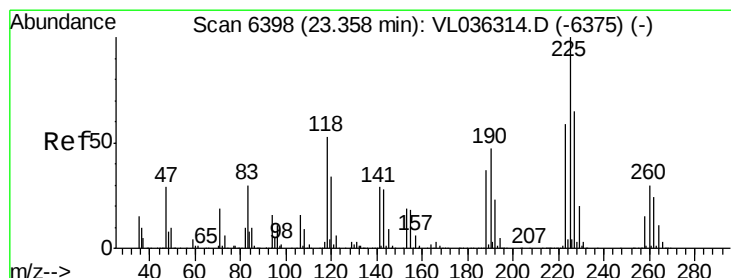
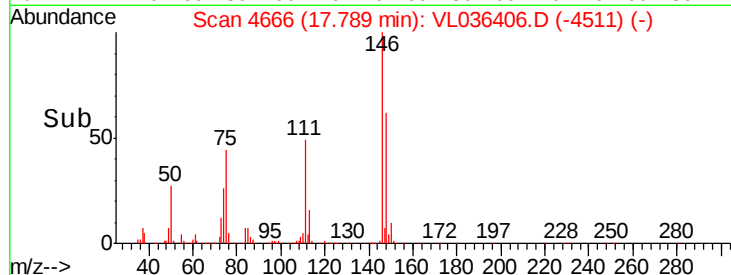
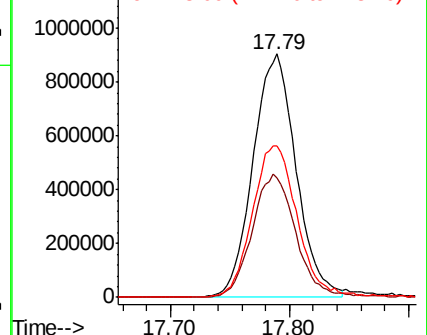


Abundance

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: 9.405 ppbv

RT: 23.35 min Scan# 6395

Delta R.T. -0.01 min

Lab File: VL036406.D

Acq: 26 Feb 2021 17:31

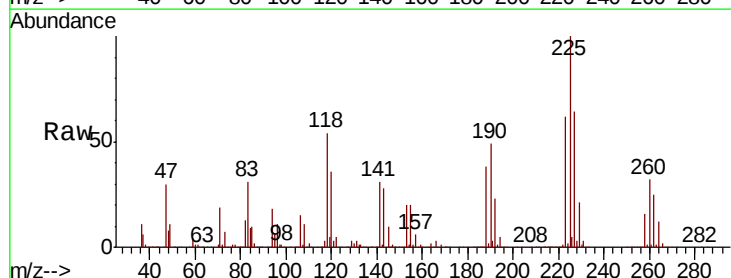
Tgt Ion:225 Resp: 1808378

Ion Ratio Lower Upper

225 100

223 63.6 50.8 76.2

227 64.5 52.2 78.2

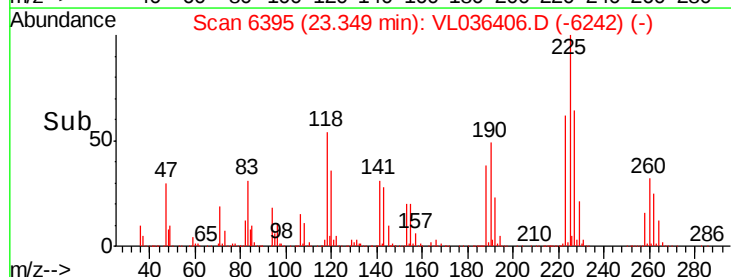
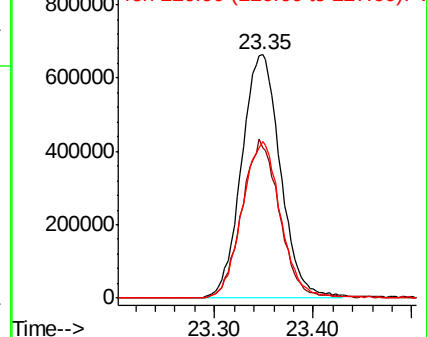


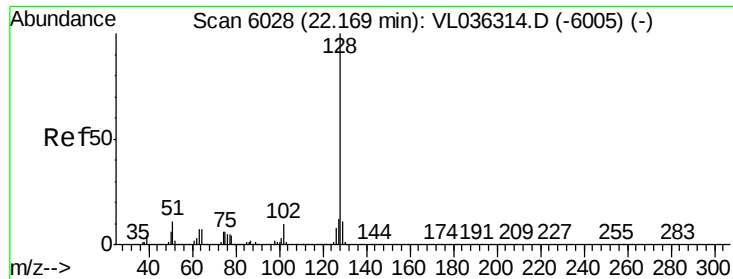
Abundance

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





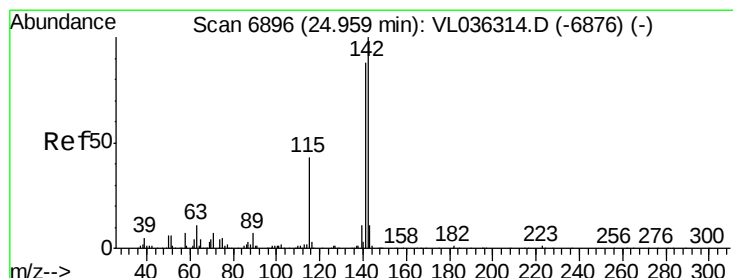
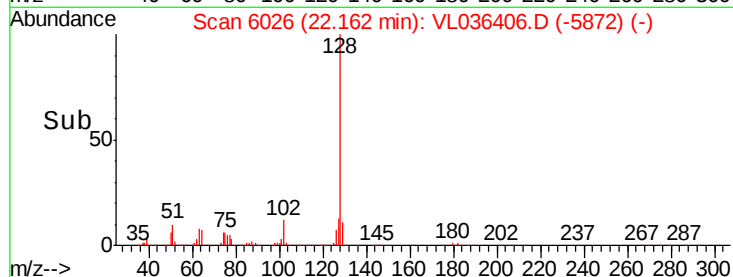
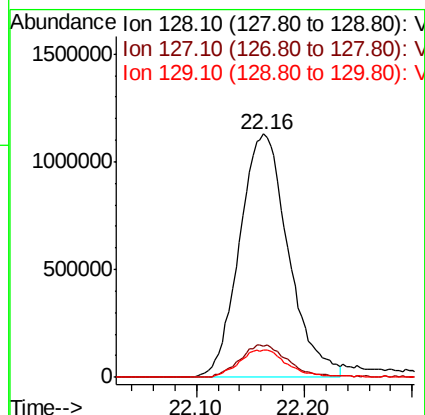
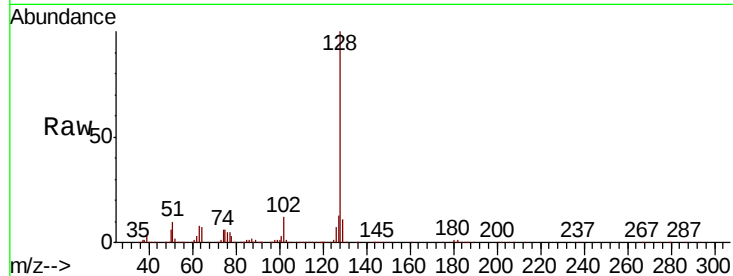
#79  
Naphthalene  
Concen: 13.664 ppbv  
RT: 22.16 min Scan# 6026  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0226ABS01

|             |               |
|-------------|---------------|
| Tot Ion:128 | Resp: 3539968 |
| Ion Ratio   | Lower Upper   |
| 128 100     |               |
| 127 12.7    | 9.6 14.4      |
| 129 11.1    | 8.5 12.7      |

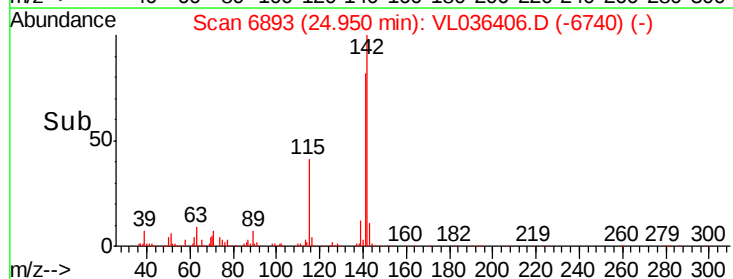
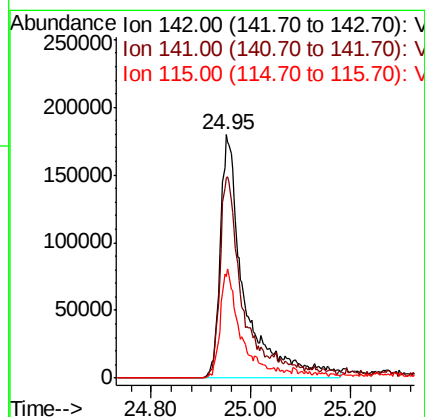
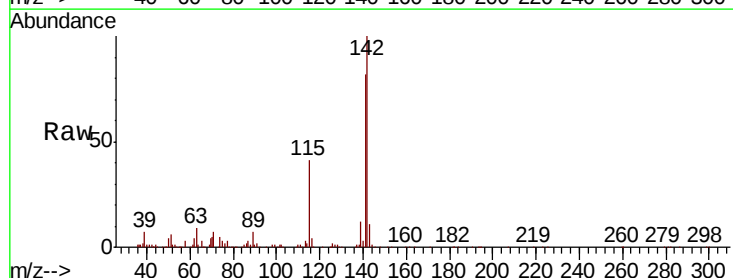
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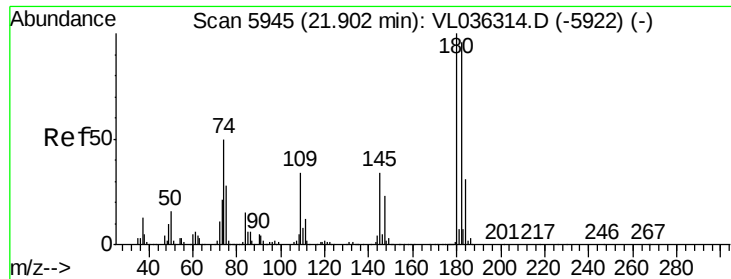
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#80  
Naphthalene, 2-methyl-  
Concen: 12.620 ppbv  
RT: 24.95 min Scan# 6893  
Delta R.T. -0.01 min  
Lab File: VL036406.D  
Acq: 26 Feb 2021 17:31

|         |         |              |       |
|---------|---------|--------------|-------|
| Tgt Ion | Ion:142 | Resp: 605391 |       |
|         | Ratio   | Lower        | Upper |
| 142     | 100     |              |       |
| 141     | 81.4    | 64.4         | 96.6  |
| 115     | 39.0    | 34.6         | 51.8  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 11.654 ppbv  
 RT: 21.89 min Scan# 5941  
 Delta R.T. -0.01 min  
 Lab File: VL036406.D  
 Acq: 26 Feb 2021 17:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0226ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 101.7 | 80.2  | 120.4 |
| 184     | 31.3  | 25.0  | 37.6  |

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