

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL112718\  
 Data File : VL032808.D  
 Acq On : 27 Nov 2018 14:14  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

MMDadoda  
 11/28/2018 4:21:23 PM

Quant Time: Nov 28 03:23:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL111418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 14 2018  
 QLast Update : Wed Nov 14 07:00:23 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.78  | 49   | 1412555  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.31  | 114  | 3827229  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.26 | 117  | 3613531  | 10.00 | ppbv  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.60  | 95    | 2650387  | 9.81     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.10% |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.08 | 85   | 1976628  | 9.73  | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 3.02 | 51   | 1103146  | 9.85  | ppbv   | 99     |
| 4) Chloromethane               | 3.18 | 50   | 617921   | 9.95  | ppbv   | 98     |
| 5) Vinyl Chloride              | 3.30 | 62   | 638181   | 9.70  | ppbv   | 96     |
| 6) Bromomethane                | 3.53 | 94   | 420418   | 10.44 | ppbv   | 90     |
| 7) Chloroethane                | 3.61 | 64   | 237492   | 10.01 | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane   | 3.23 | 85   | 1552660  | 9.70  | ppbv   | 97     |
| 9) Propene                     | 3.05 | 41   | 471845   | 10.53 | ppbv   | 100    |
| 10) Heptane                    | 8.26 | 43   | 1809390  | 10.58 | ppbv   | 98     |
| 11) Trichlorofluoromethane     | 4.01 | 101  | 1721266  | 9.00  | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.56 | 101  | 1688538  | 10.80 | ppbv   | 96     |
| 13) Ethanol                    | 3.66 | 45   | 103285m  | 7.04  | ppbv   |        |
| 14) Bromoethene                | 3.80 | 108  | 529773   | 10.22 | ppbv   | 98     |
| 15) Acetone                    | 3.91 | 43   | 1103090  | 8.55  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.37 | 39   | 504373   | 10.10 | ppbv   | 90     |
| 17) tert-Butyl alcohol         | 4.37 | 59   | 472681   | 11.68 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.36 | 96   | 838432   | 10.91 | ppbv   | 98     |
| 19) Isopropyl Alcohol          | 4.03 | 45   | 762787   | 8.88  | ppbv   | 100    |
| 20) Methylene Chloride         | 4.42 | 84   | 733588   | 10.98 | ppbv   | 95     |
| 21) Allyl Chloride             | 4.49 | 41   | 1290419  | 11.90 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.98 | 96   | 840099   | 11.19 | ppbv   | 95     |
| 23) Vinyl Acetate              | 5.17 | 43   | 2713353  | 11.54 | ppbv   | 98     |
| 24) 1,1-Dichloroethane         | 5.11 | 63   | 2026586  | 10.84 | ppbv   | 100    |
| 25) Ethyl Acetate              | 5.78 | 43   | 3083248  | 10.26 | ppbv   | 100    |
| 26) Hexane                     | 5.79 | 57   | 1443067  | 10.78 | ppbv   | 99     |
| 27) Carbon Disulfide           | 4.63 | 76   | 1935865  | 11.41 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether    | 5.13 | 73   | 2435863  | 11.41 | ppbv   | 100    |
| 29) Chloroform                 | 5.87 | 83   | 2373042  | 9.95  | ppbv   | 96     |
| 30) Cyclohexane                | 7.26 | 84   | 1338254  | 11.43 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene     | 5.66 | 61   | 1509706  | 11.22 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane      | 6.64 | 97   | 2502412  | 9.57  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.34 | 43   | 2015200  | 10.15 | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.15 | 117  | 2786653  | 9.06  | ppbv   | 98     |
| 36) Benzene                    | 7.02 | 78   | 3141853  | 10.31 | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.43 | 62   | 1936688  | 9.44  | ppbv   | 99     |
| 38) Trichloroethene            | 7.98 | 130  | 1312254  | 10.64 | ppbv   | 97     |
| 39) 1,2-Dichloropropane        | 7.75 | 63   | 1180123  | 10.16 | ppbv   | 96     |
| 40) 1,4-Dioxane                | 7.97 | 88   | 390738   | 9.42  | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.17 | 42   | 1237432  | 10.87 | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.93 | 83   | 2735180  | 9.83  | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.15 | 69   | 1203695  | 10.58 | ppbv   | 99     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

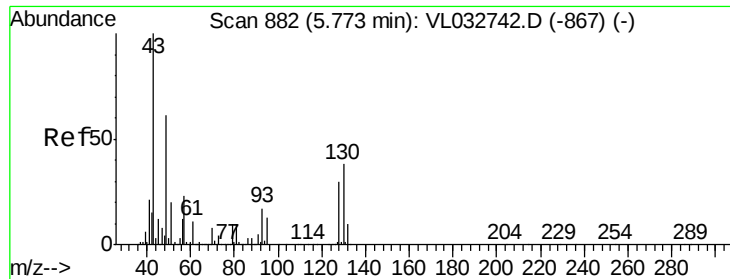
MMDadoda  
 11/28/2018 4:21:23 PM

Quant Time: Nov 28 03:23:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL111418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 14 2018  
 QLast Update : Wed Nov 14 07:00:23 2018  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 8.01  | 57   | 5248239  | 10.30 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.44  | 75   | 1666786  | 10.92 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.85  | 75   | 2107852  | 11.43 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.63  | 97   | 1413585  | 10.30 | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.47 | 129  | 2313378  | 9.91  | ppbv   | 100      |
| 49) Bromoform                 | 13.22 | 173  | 2087607  | 10.83 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.89  | 43   | 3218968  | 10.38 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.29 | 43   | 2225223  | 11.14 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.39 | 164  | 1157487  | 10.92 | ppbv   | 97       |
| 53) Toluene                   | 9.97  | 91   | 3703146  | 11.65 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.78 | 107  | 2082153  | 10.73 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.30 | 131  | 1700716  | 10.09 | ppbv   | 99       |
| 57) Chlorobenzene             | 12.32 | 112  | 2822096  | 10.20 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.88 | 91   | 4955966  | 11.40 | ppbv   | 100      |
| 59) m/p-Xylene                | 13.17 | 91   | 8268704m | 21.36 | ppbv   |          |
| 60) o-Xylene                  | 13.87 | 91   | 3990497  | 10.25 | ppbv   | 99       |
| 61) Styrene                   | 13.70 | 104  | 3052368  | 12.05 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.85 | 105  | 5757702  | 10.94 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.86 | 83   | 2776733  | 9.15  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.74 | 120  | 1484441  | 10.73 | ppbv   | 95       |
| 65) tert-Butylbenzene         | 16.93 | 119  | 5088817  | 10.79 | ppbv   | 98       |
| 66) Benzyl Chloride           | 17.17 | 91   | 2835009  | 10.87 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.48 | 105  | 7068268  | 10.40 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.83 | 119  | 5739702  | 10.62 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.73 | 91   | 5699992  | 10.39 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.64 | 91   | 4271405  | 10.89 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 16.02 | 105  | 4644107  | 10.88 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.18 | 105  | 4410778  | 10.57 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.95 | 105  | 4456638  | 9.98  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.18 | 146  | 2515674  | 9.82  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.33 | 146  | 2472894  | 10.34 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 18.01 | 146  | 2425131  | 10.24 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.56 | 225  | 1016833  | 7.95  | ppbv   | 99       |
| 79) Naphthalene               | 22.44 | 128  | 3279215  | 11.18 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 25.13 | 142  | 819198   | 11.15 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.16 | 180  | 1608697  | 10.92 | ppbv   | 99       |

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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 49 Resp: 1412555

Ion Ratio Lower Upper

49 100

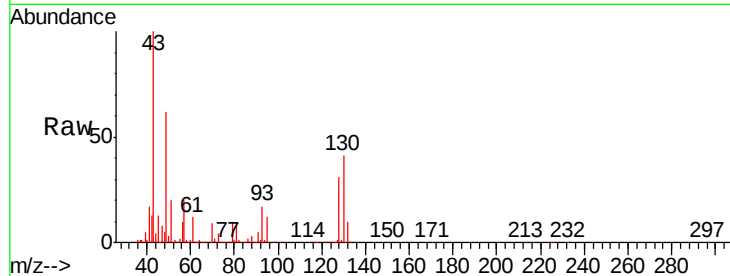
128 52.6 24.9 74.6

130 67.0 31.4 94.2

Manual Integrations  
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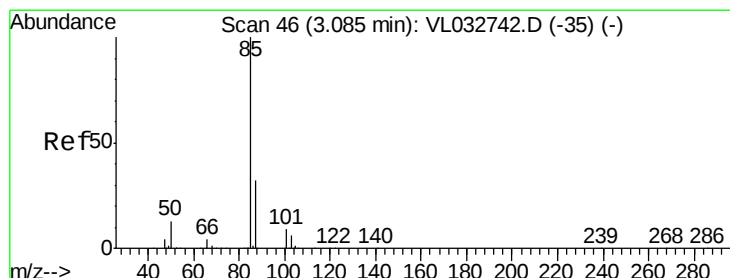
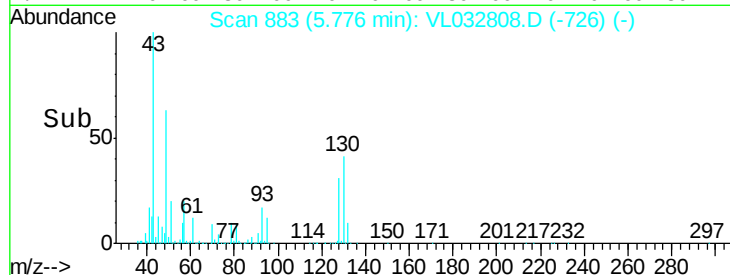
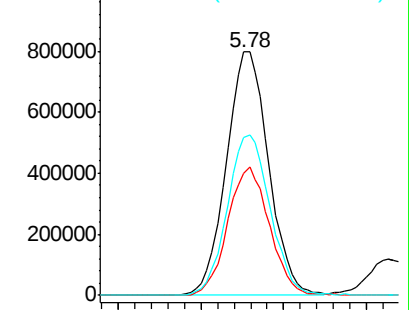
11/28/2018 4:21:23 PM



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: 9.73 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL032808.D

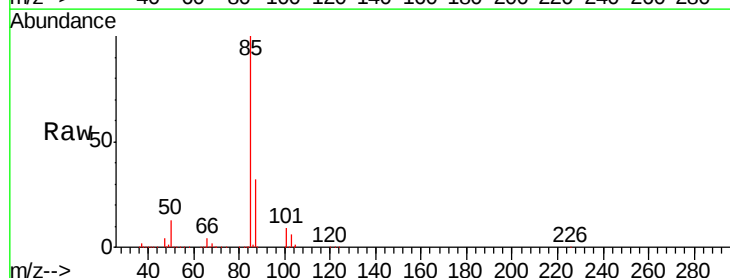
Acq: 27 Nov 2018 14:14

Tgt Ion: 85 Resp: 1976628

Ion Ratio Lower Upper

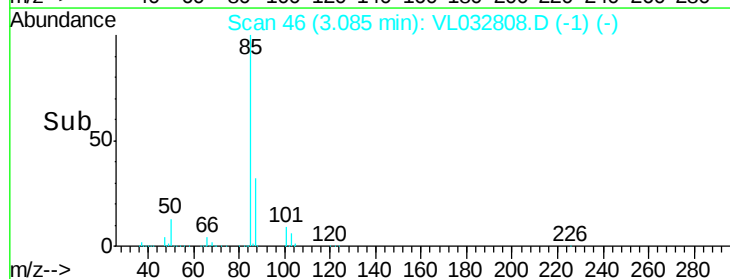
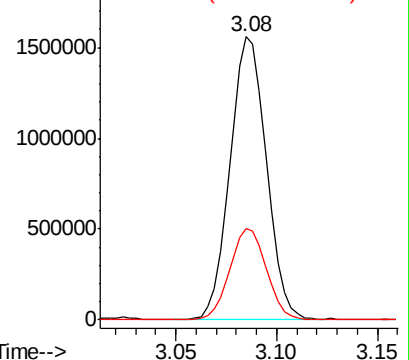
85 100

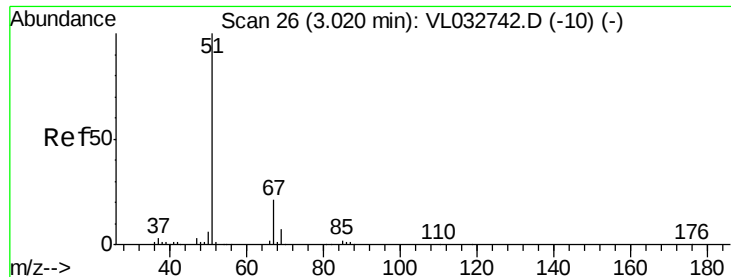
87 32.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





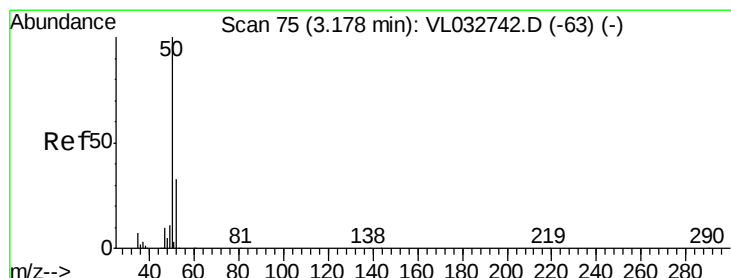
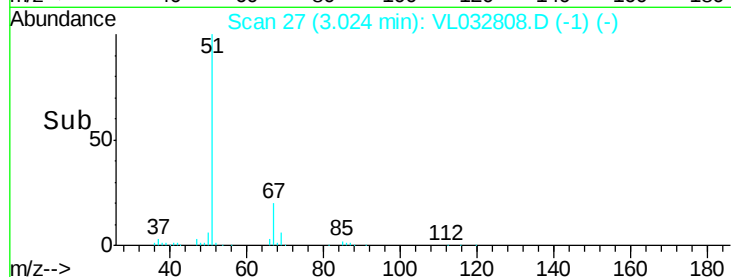
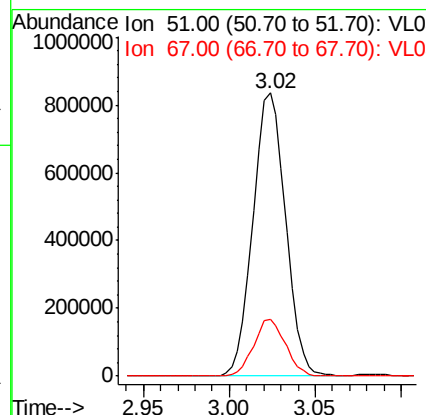
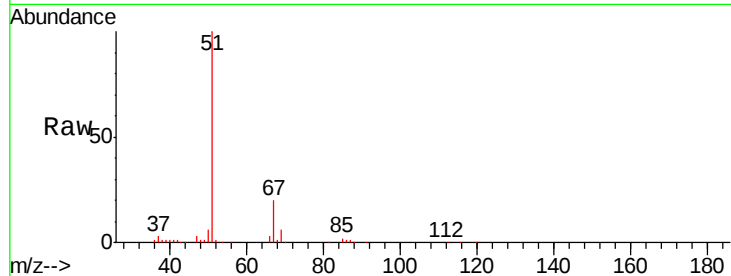
#3  
Chlorodifluoromethane  
Concen: 9.85 ppbv  
RT: 3.02 min Scan# 27  
Delta R.T. 0.00 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 51 Resp: 1103146  
Ion Ratio Lower Upper  
51 100  
67 19.7 16.1 24.1

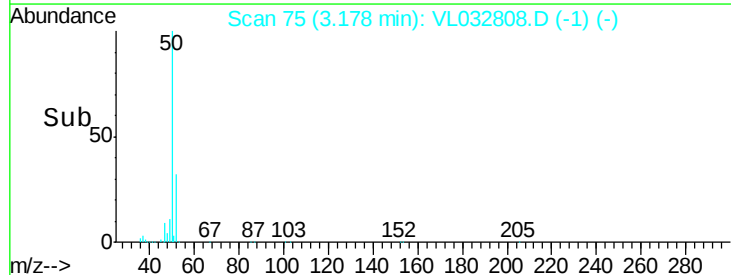
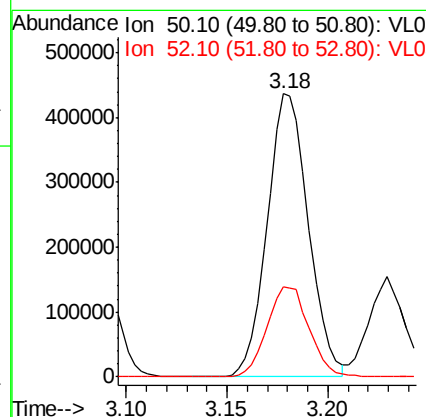
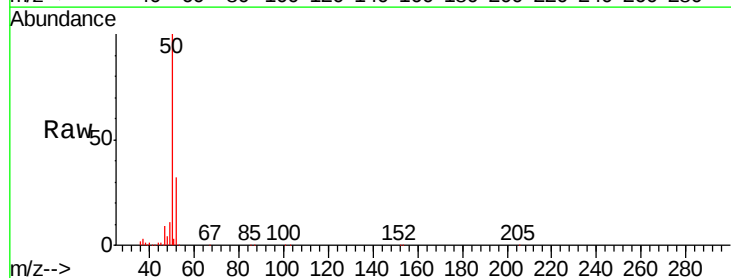
Manual Integrations  
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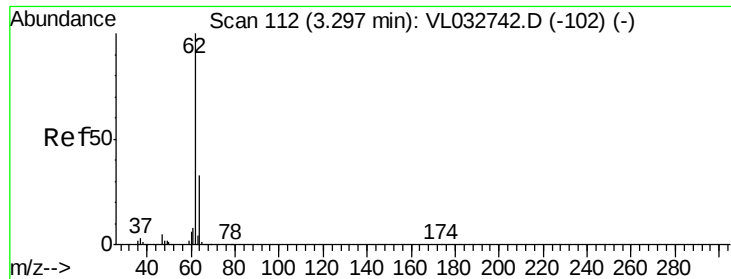
MMDadoda  
11/28/2018 4:21:23 PM



#4  
Chloromethane  
Concen: 9.95 ppbv  
RT: 3.18 min Scan# 75  
Delta R.T. 0.00 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion: 50 Resp: 617921  
Ion Ratio Lower Upper  
50 100  
52 32.0 26.6 40.0





#5

Vinyl Chloride

Concen: 9.70 ppbv

RT: 3.30 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 638181

Ion Ratio Lower Upper

62 100

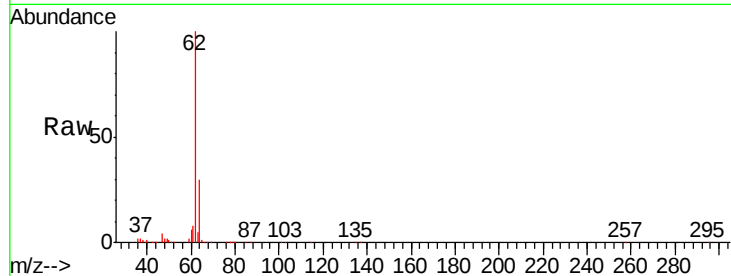
64 30.3 26.2 39.4

Manual Integrations

APPROVED

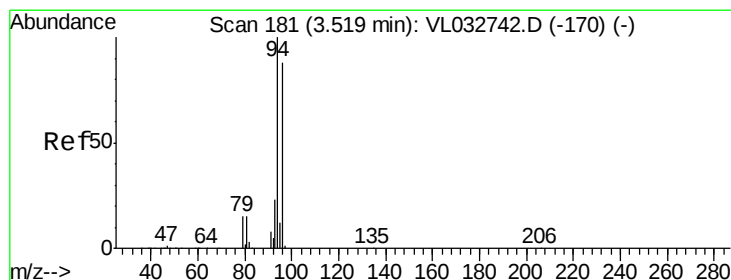
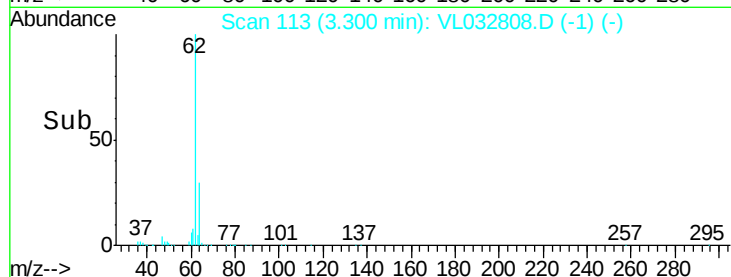
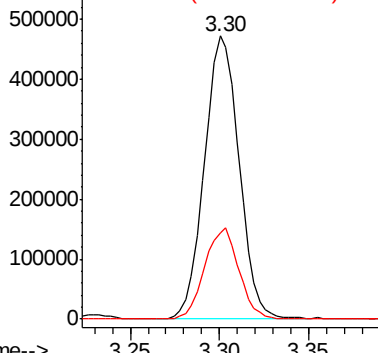
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.44 ppbv

RT: 3.53 min Scan# 183

Delta R.T. 0.01 min

Lab File: VL032808.D

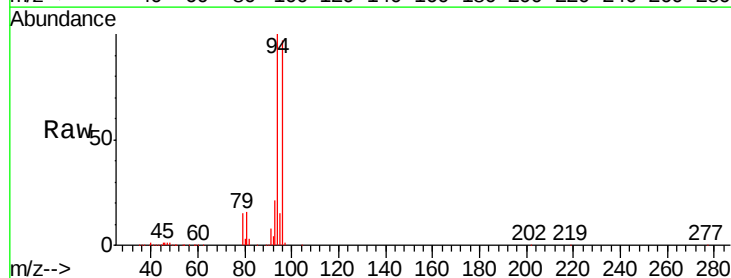
Acq: 27 Nov 2018 14:14

Tgt Ion: 94 Resp: 420418

Ion Ratio Lower Upper

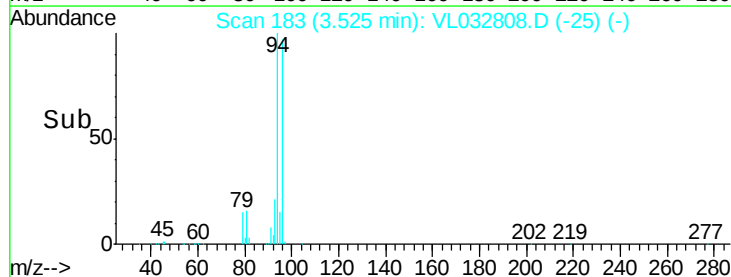
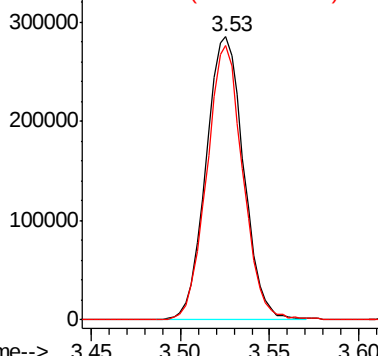
94 100

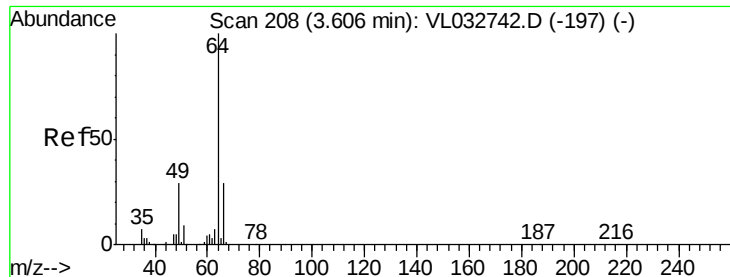
96 96.9 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.01 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 64 Resp: 237492

Ion Ratio Lower Upper

64 100

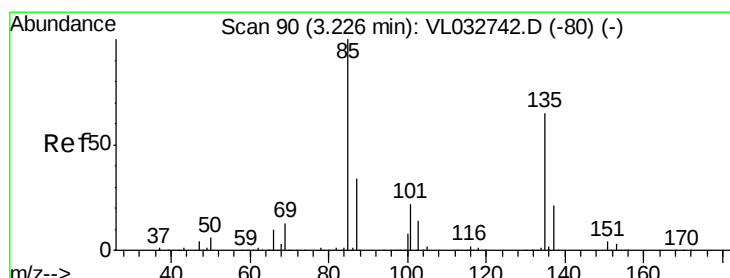
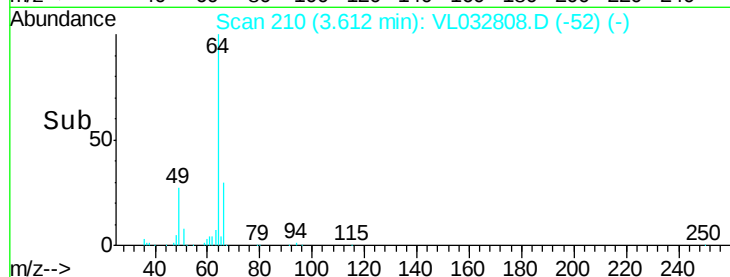
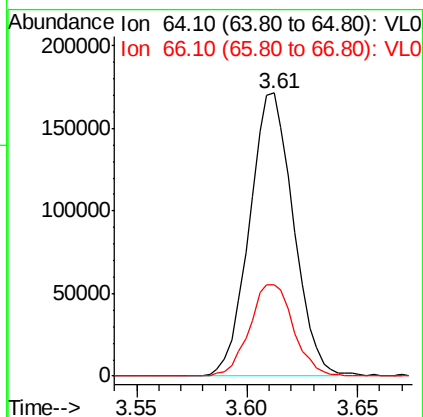
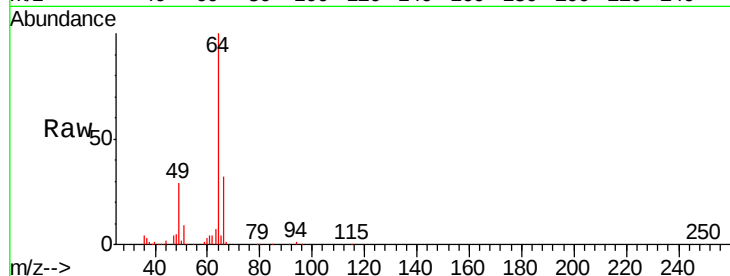
66 32.3 23.2 34.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.70 ppbv

RT: 3.23 min Scan# 91

Delta R.T. 0.00 min

Lab File: VL032808.D

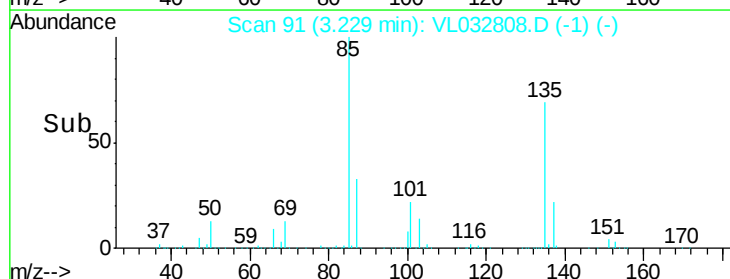
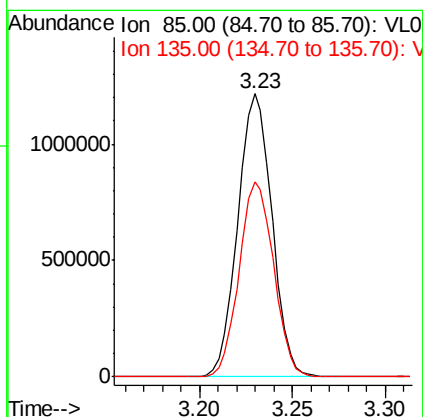
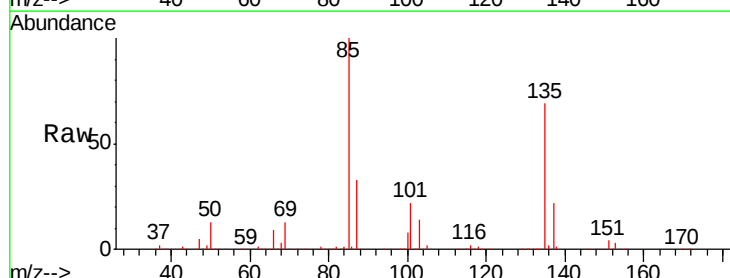
Acq: 27 Nov 2018 14:14

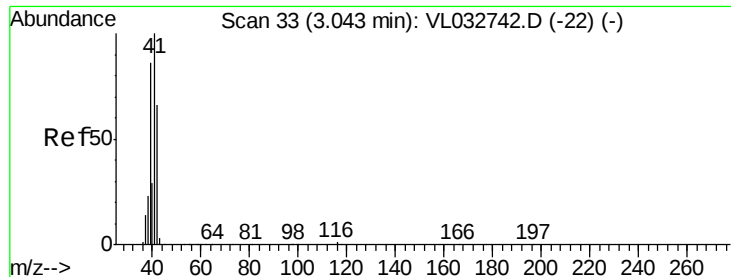
Tgt Ion: 85 Resp: 1552660

Ion Ratio Lower Upper

85 100

135 70.0 53.8 80.8





#9

Propene

Concen: 10.53 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 471845

Ion Ratio Lower Upper

41 100

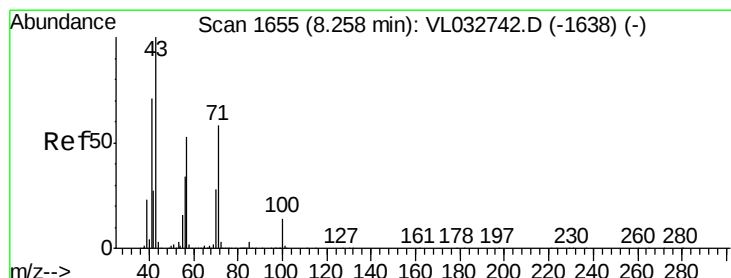
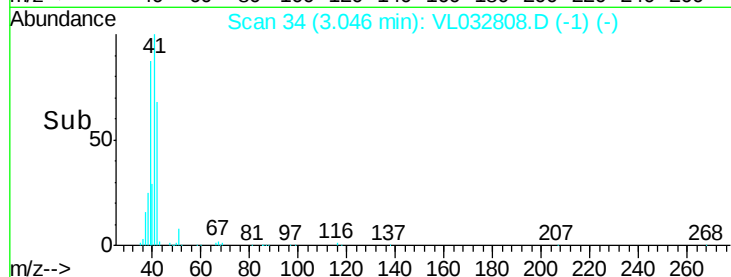
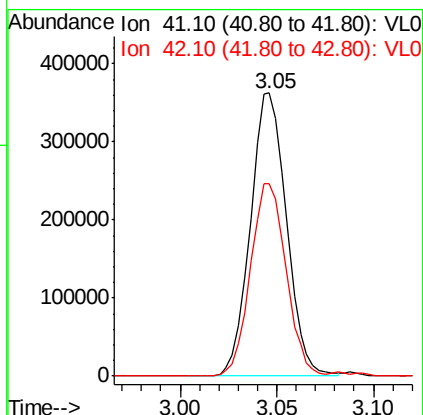
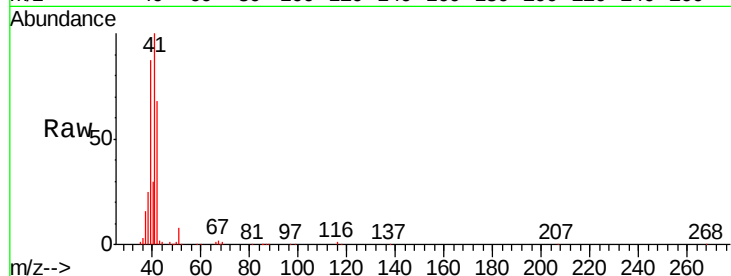
42 68.7 55.0 82.6

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#10

Heptane

Concen: 10.58 ppbv

RT: 8.26 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VL032808.D

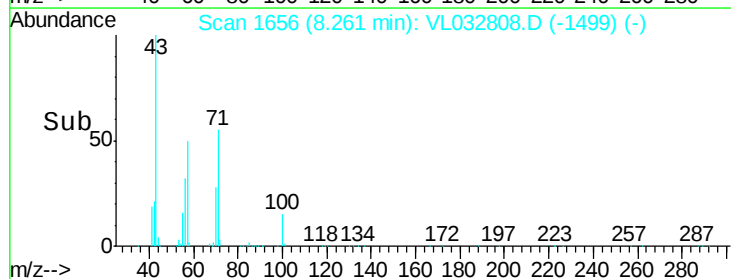
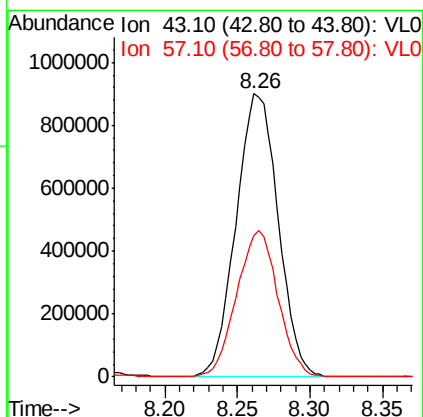
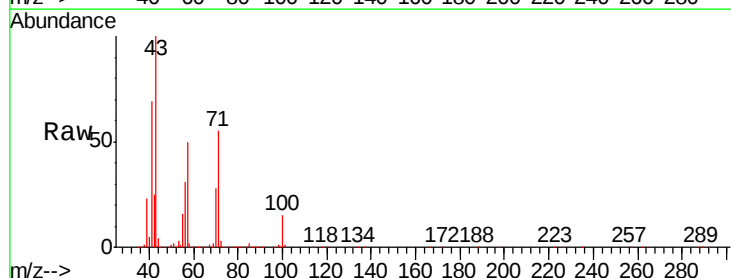
Acq: 27 Nov 2018 14:14

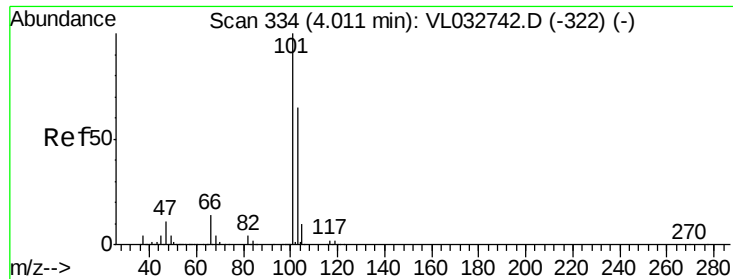
Tgt Ion: 43 Resp: 1809390

Ion Ratio Lower Upper

43 100

57 50.8 41.8 62.8





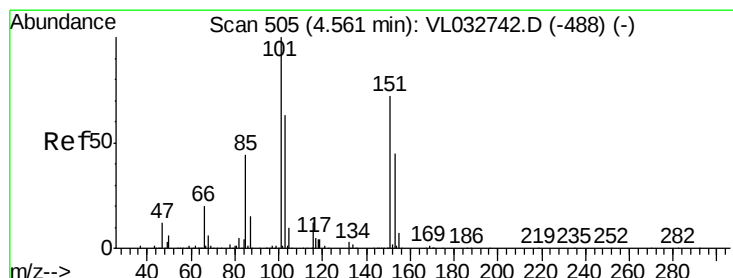
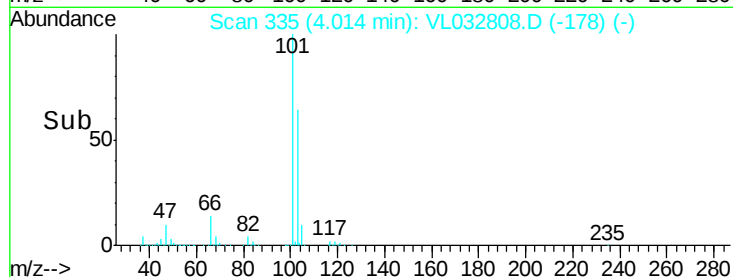
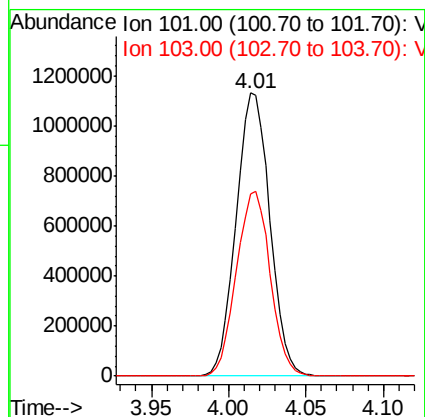
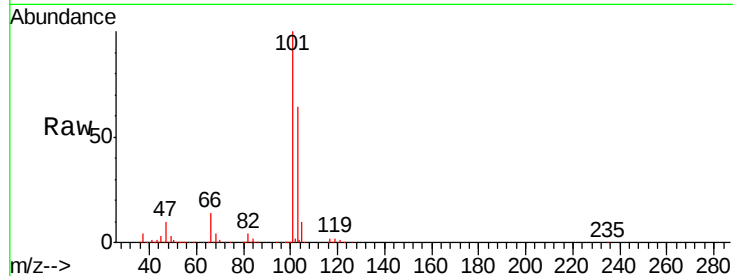
#11  
 Trichlorofluoromethane  
 Concen: 9.00 ppbv  
 RT: 4.01 min Scan# 335  
 Delta R.T. 0.00 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:101 Resp: 1721266  
 Ion Ratio Lower Upper  
 101 100  
 103 64.4 51.6 77.4

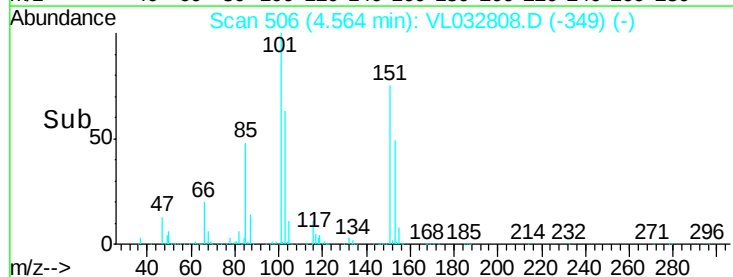
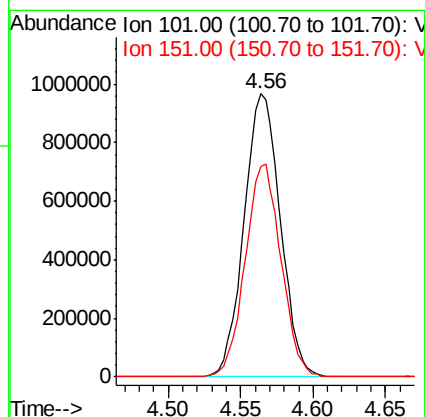
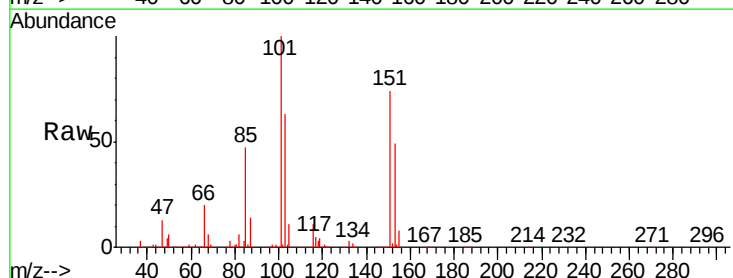
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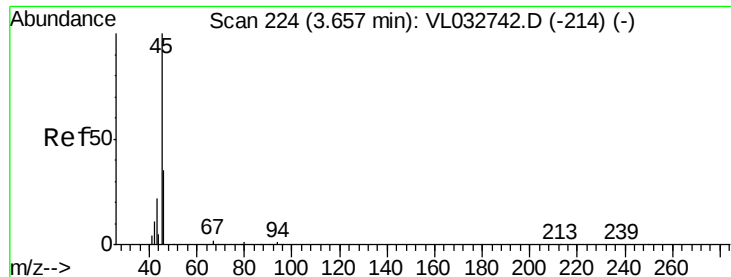
MMDadoda  
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.80 ppbv  
 RT: 4.56 min Scan# 506  
 Delta R.T. 0.00 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Tgt Ion:101 Resp: 1688538  
 Ion Ratio Lower Upper  
 101 100  
 151 74.2 56.7 85.1





#13

Ethanol

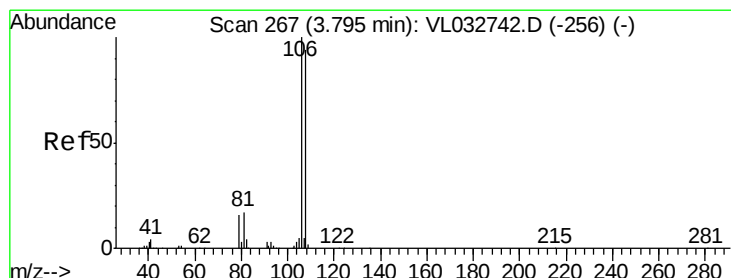
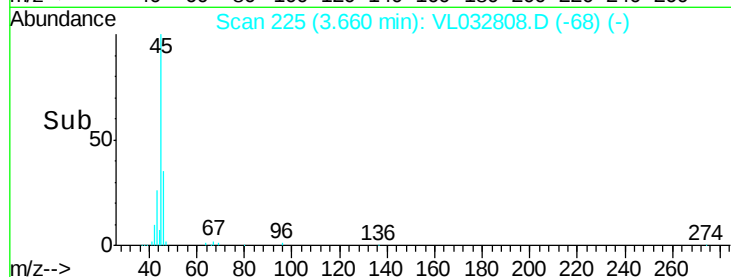
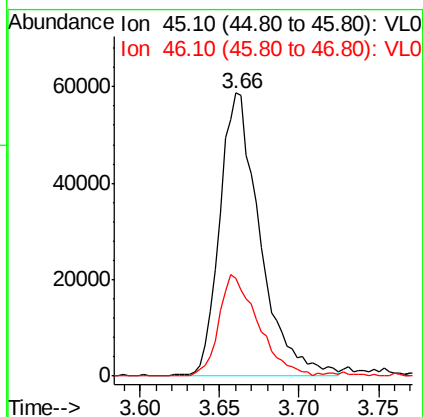
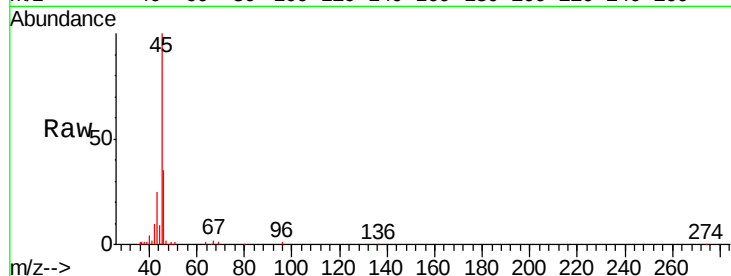
Concen: 7.04 ppbv m  
RT: 3.66 min Scan# 225  
Delta R.T. 0.00 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 35.2  | 14.5  | 57.9  |

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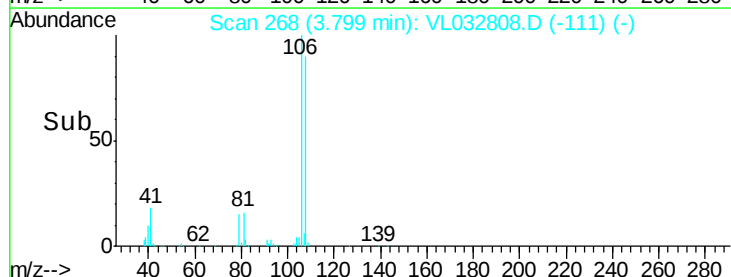
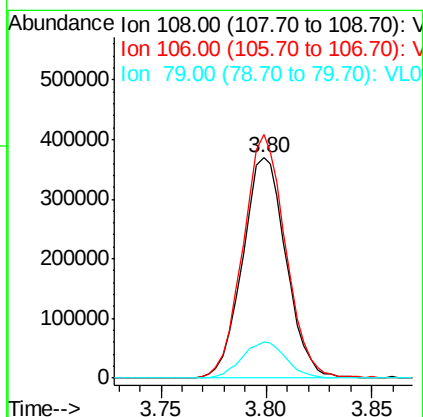
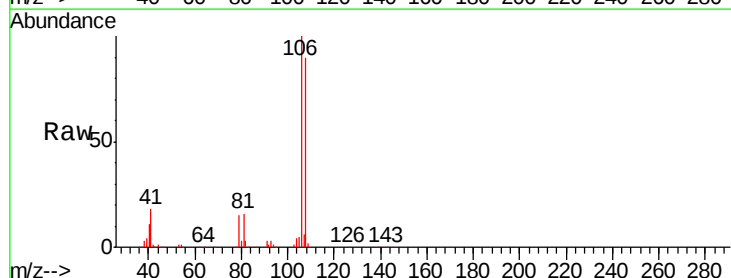


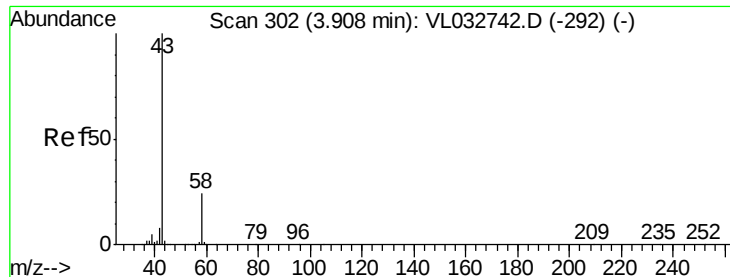
#14

Bromoethene

Concen: 10.22 ppbv  
RT: 3.80 min Scan# 268  
Delta R.T. 0.00 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 106     | 108.8 | 84.9  | 127.3 |
| 79      | 17.1  | 14.2  | 21.4  |





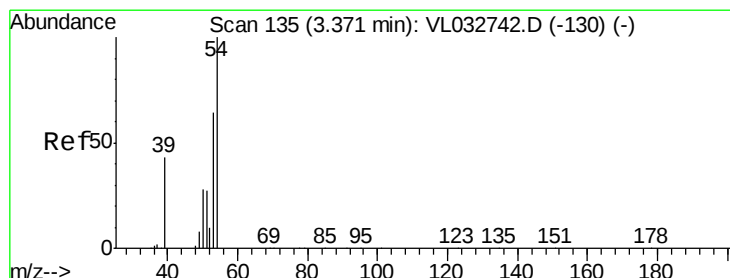
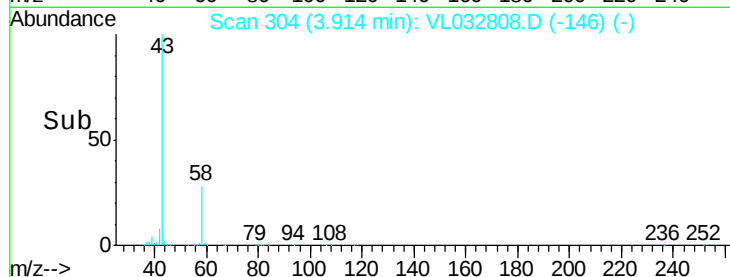
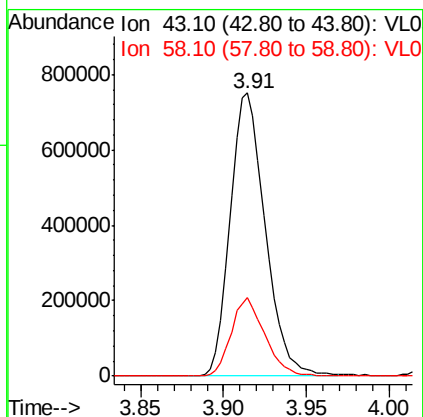
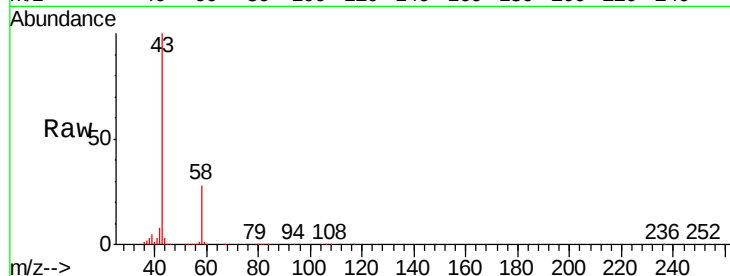
#15  
Acetone  
Concen: 8.55 ppbv  
RT: 3.91 min Scan# 304  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 1103090  
Ion Ratio Lower Upper  
43 100  
58 26.9 21.1 31.7

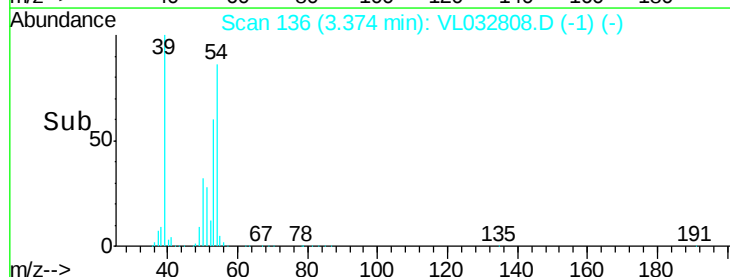
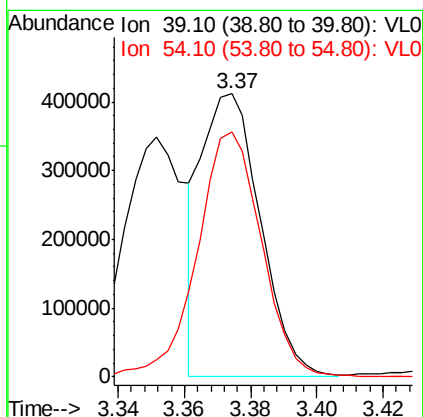
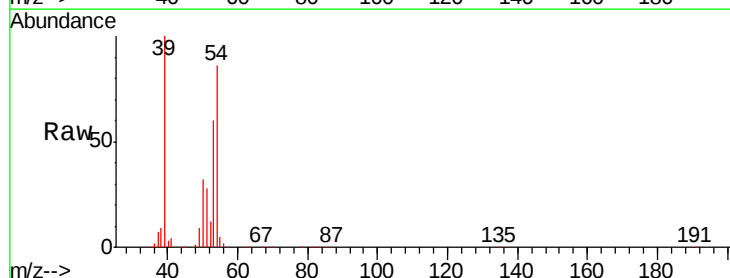
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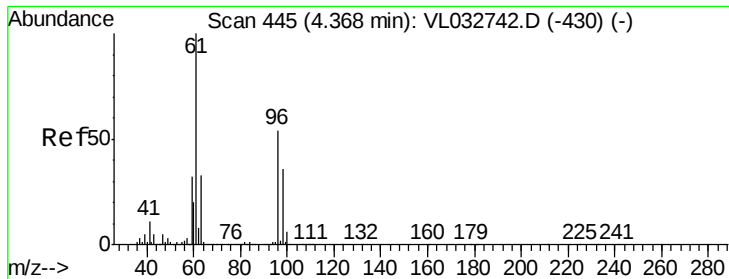
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#16  
1,3-Butadiene  
Concen: 10.10 ppbv  
RT: 3.37 min Scan# 136  
Delta R.T. 0.00 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion: 39 Resp: 504373  
Ion Ratio Lower Upper  
39 100  
54 95.6 68.9 103.3





#17

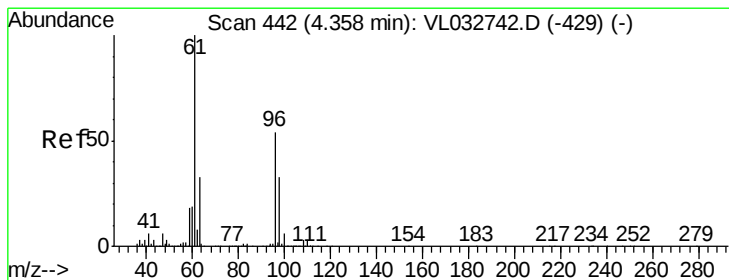
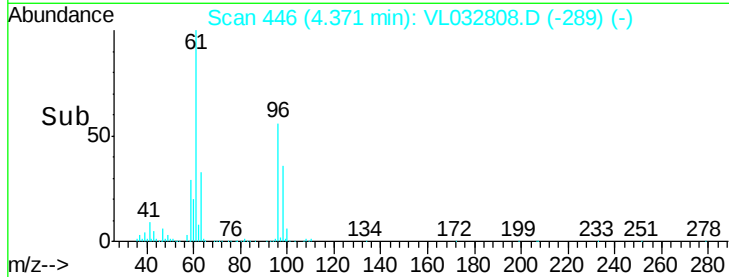
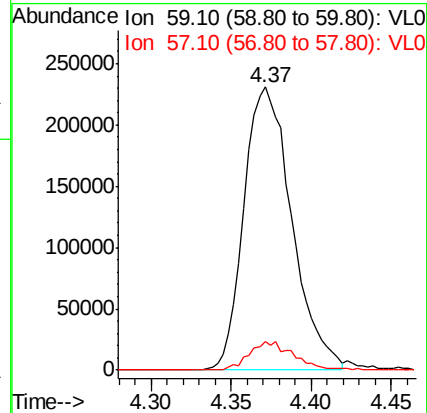
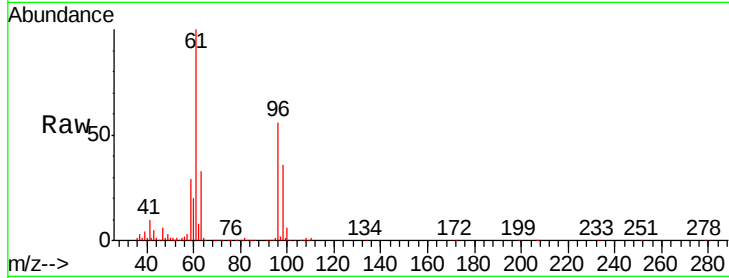
tert-Butyl alcohol  
Concen: 11.68 ppbv  
RT: 4.37 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 59 Resp: 472681  
Ion Ratio Lower Upper  
59 100  
57 9.6 7.8 11.8

Manual Integrations  
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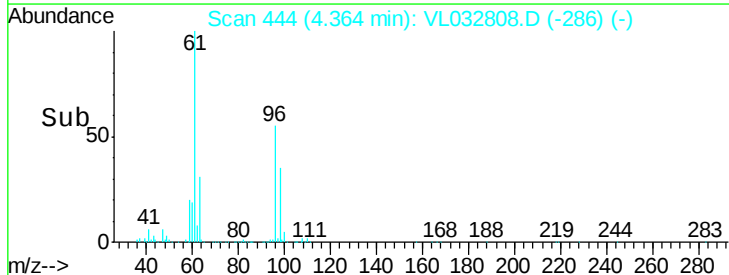
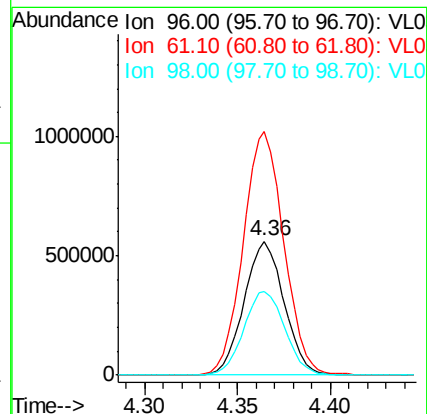
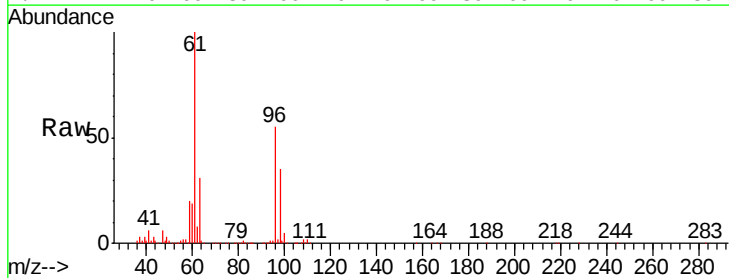
MMDadoda  
11/28/2018 4:21:23 PM

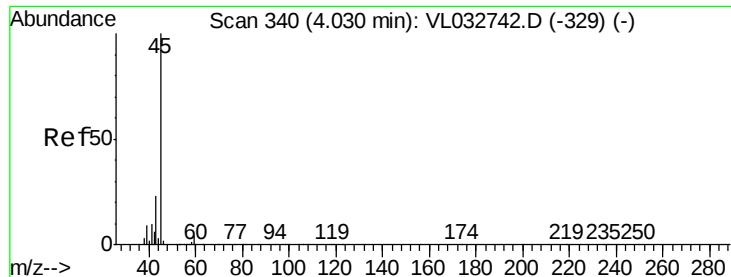


#18

1,1-Dichloroethene  
Concen: 10.91 ppbv  
RT: 4.36 min Scan# 444  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion: 96 Resp: 838432  
Ion Ratio Lower Upper  
96 100  
61 182.2 148.5 222.7  
98 62.9 48.6 72.8





#19

Isopropyl Alcohol

Concen: 8.88 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.00 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 45 Resp: 762787

Ion Ratio Lower Upper

45 100

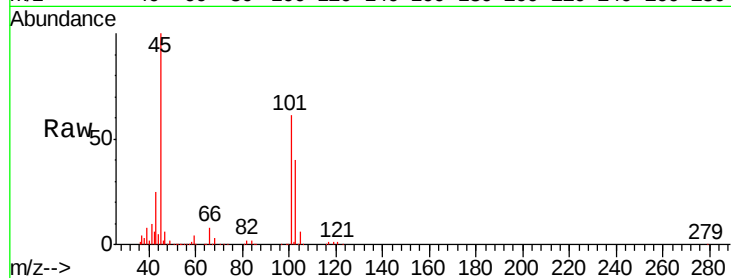
58 1.7 1.4 2.0

Manual Integrations

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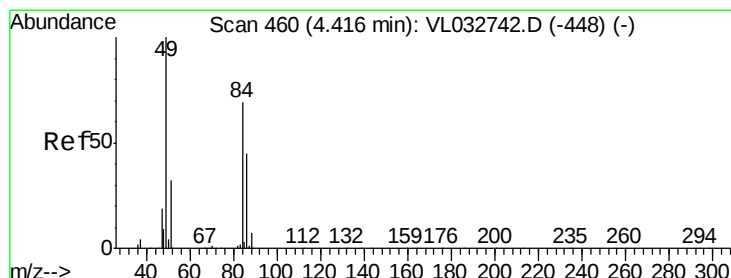
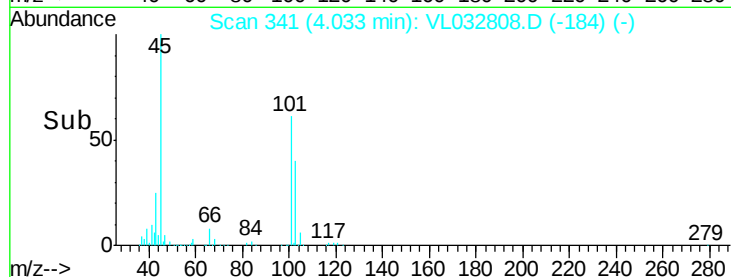
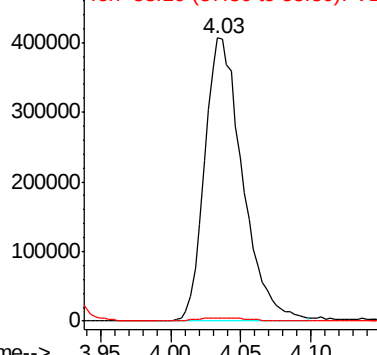
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 10.98 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Tgt Ion: 84 Resp: 733588

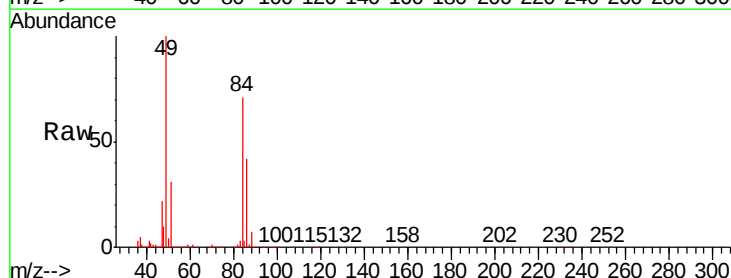
Ion Ratio Lower Upper

84 100

49 140.3 115.8 173.6

51 43.3 36.9 55.3

86 59.5 52.4 78.6

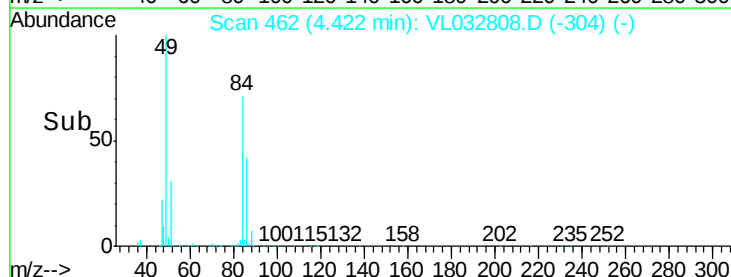
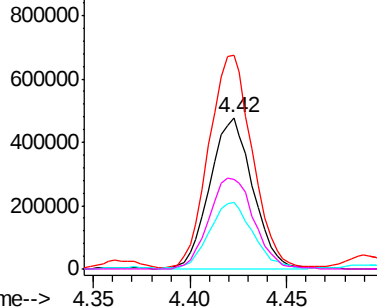


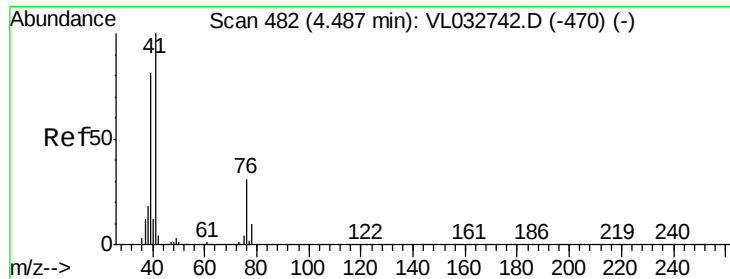
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allyl Chloride

Concen: 11.90 ppbv

RT: 4.49 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

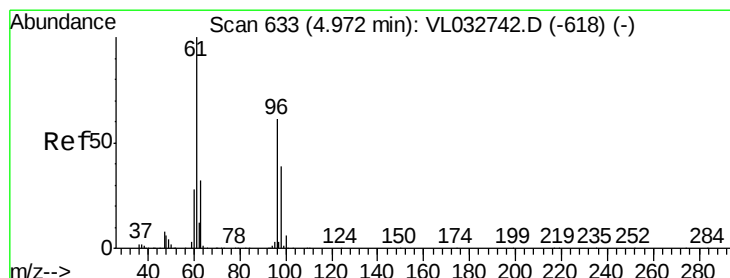
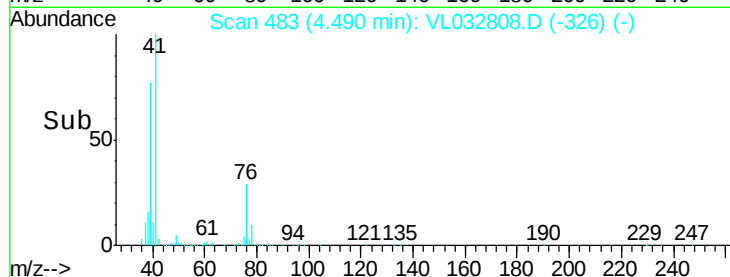
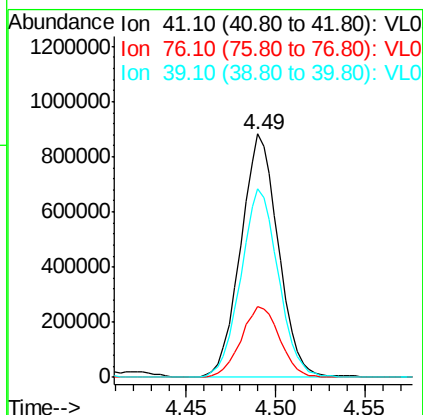
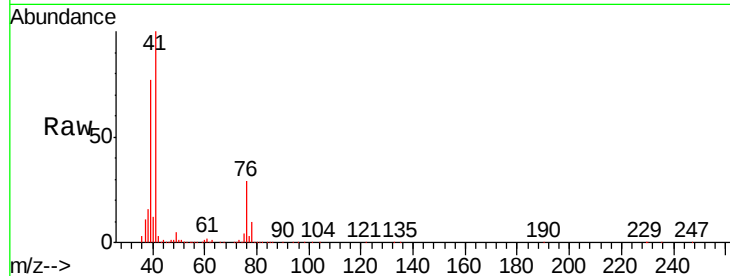
ClientSampleId :

VSTDCCC010

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 41    | Resp: | 1290419 |
| Ion      | Ratio | Lower | Upper   |
| 41       | 100   |       |         |
| 76       | 30.5  | 24.4  | 36.6    |
| 39       | 78.4  | 63.5  | 95.3    |

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#22

trans-1,2-Dichloroethene

Concen: 11.19 ppbv

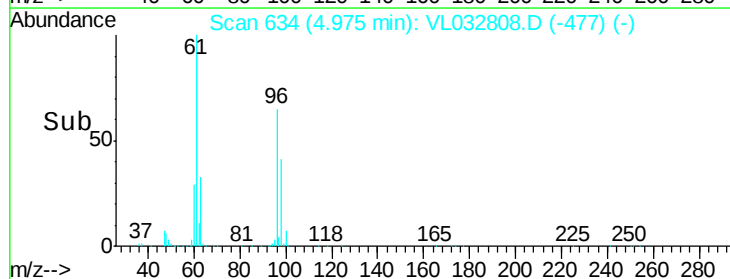
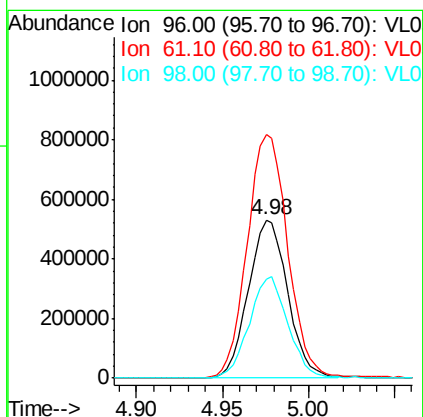
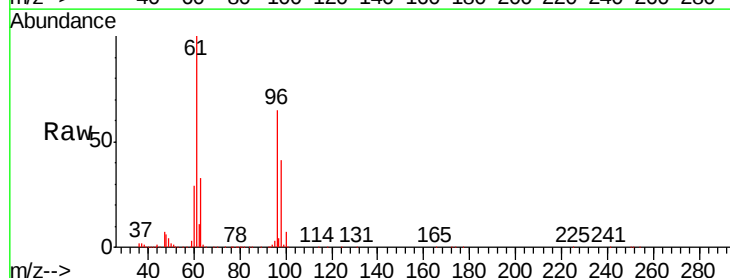
RT: 4.98 min Scan# 634

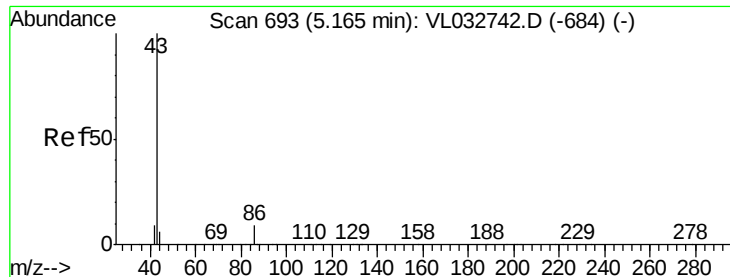
Delta R.T. 0.00 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 840099 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 153.8 | 130.2 | 195.2  |
| 98       | 62.4  | 50.2  | 75.2   |





#23

Vinyl Acetate

Concen: 11.54 ppbv

RT: 5.17 min Scan# 694

Delta R.T. 0.00 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 2713353

Ion Ratio Lower Upper

43 100

86 8.2 6.2 9.4

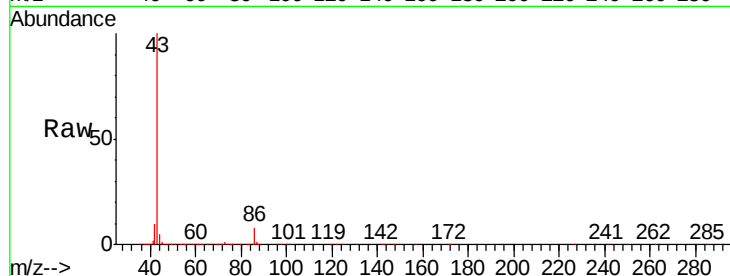
42 10.4 7.8 11.6

44 4.7 4.4 6.6

Manual Integrations  
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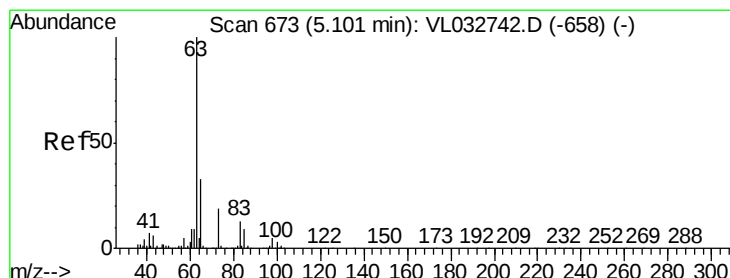
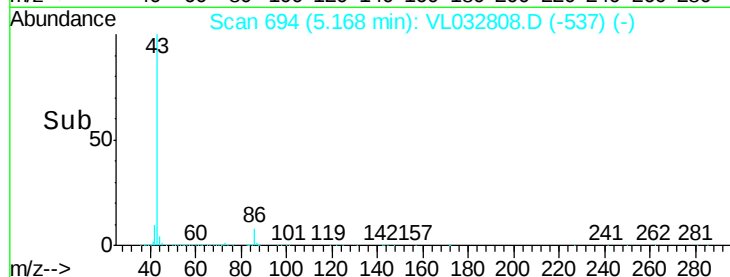
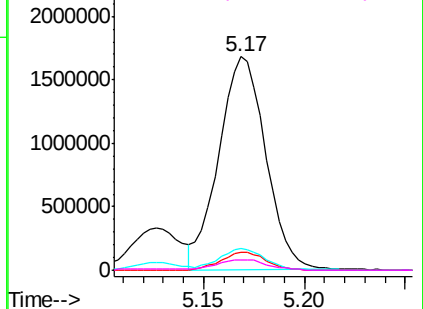


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.84 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

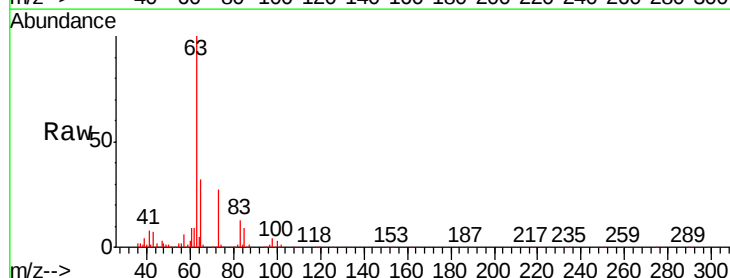
Tgt Ion: 63 Resp: 2026586

Ion Ratio Lower Upper

63 100

98 4.4 2.3 6.8

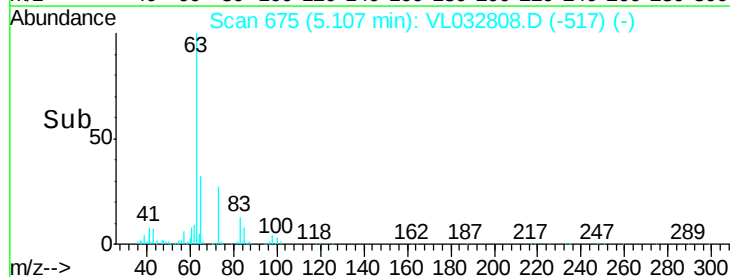
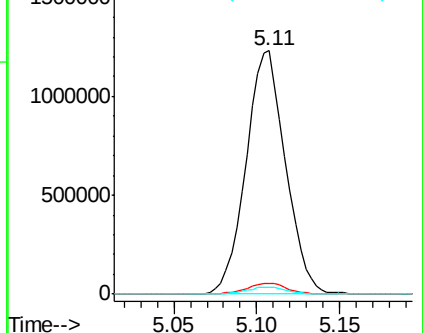
100 3.0 1.4 4.2

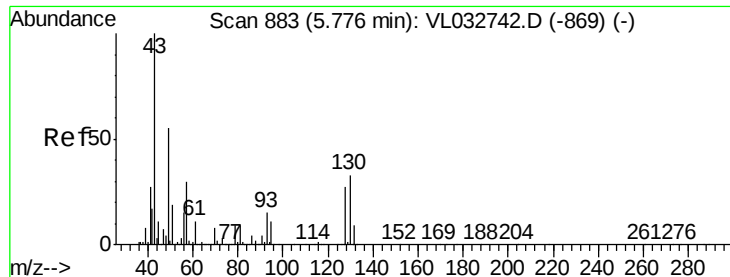


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.26 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 3083248

Ion Ratio Lower Upper

43 100

45 10.0 7.9 11.9

61 9.7 7.8 11.6

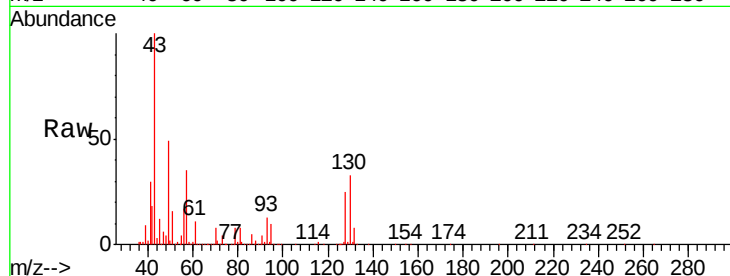
70 7.4 5.8 8.6

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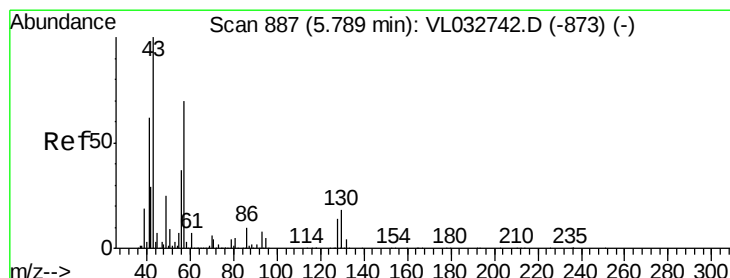
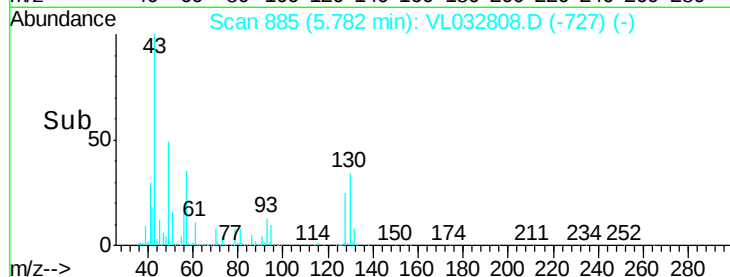
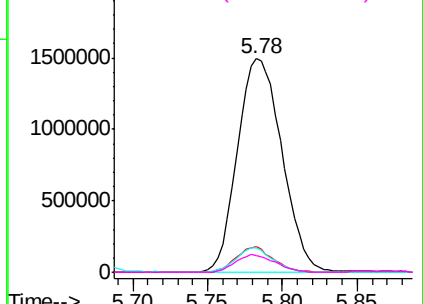


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.78 ppbv

RT: 5.79 min Scan# 888

Delta R.T. 0.00 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Tgt Ion: 57 Resp: 1443067

Ion Ratio Lower Upper

57 100

41 87.6 70.3 105.5

43 214.9 174.0 261.0

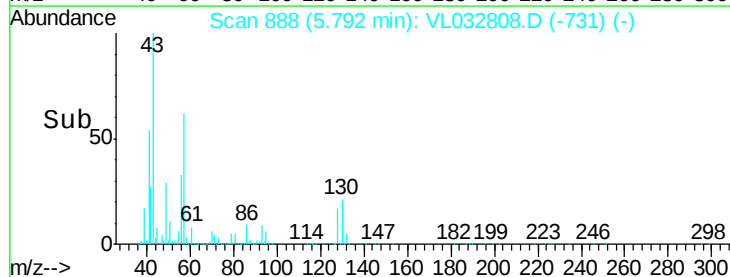
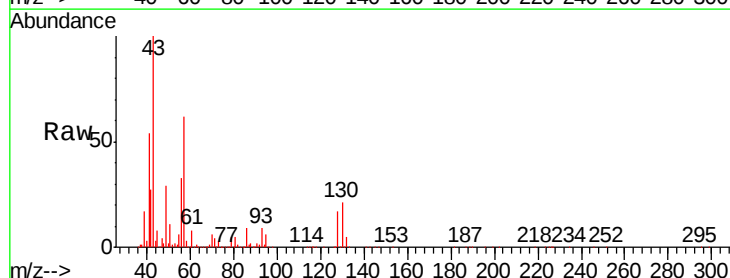
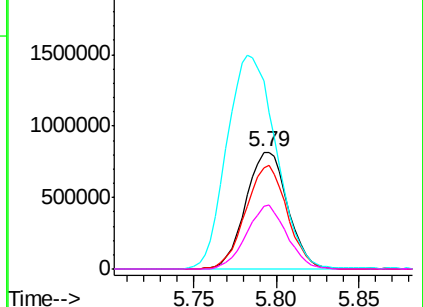
56 52.3 42.3 63.5

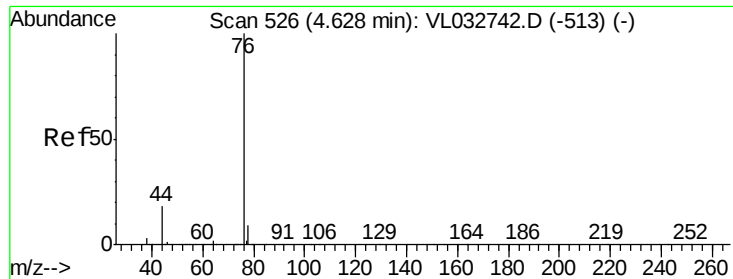
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.41 ppbv

RT: 4.63 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 76 Resp: 1935865

Ion Ratio Lower Upper

76 100

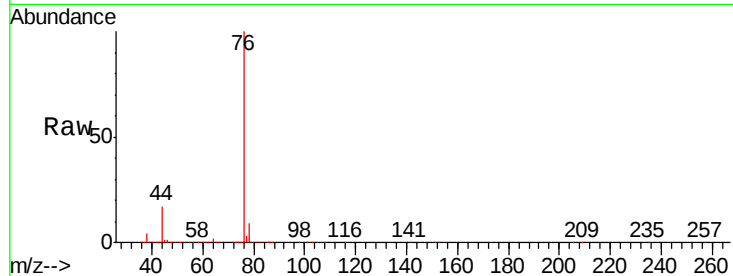
44 17.5 14.4 21.6

78 8.8 7.7 11.5

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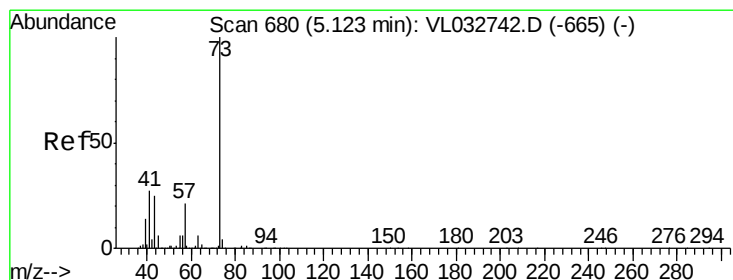
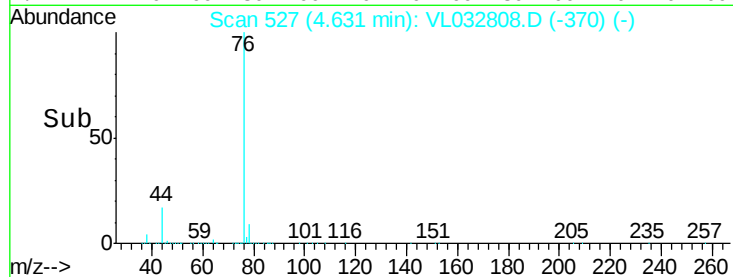
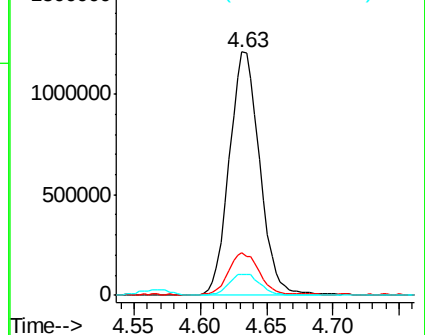
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Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.41 ppbv

RT: 5.13 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL032808.D

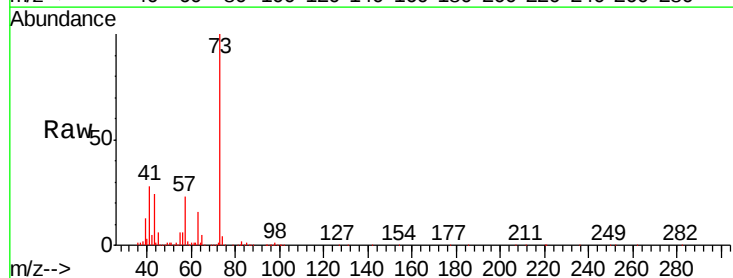
Acq: 27 Nov 2018 14:14

Tgt Ion: 73 Resp: 2435863

Ion Ratio Lower Upper

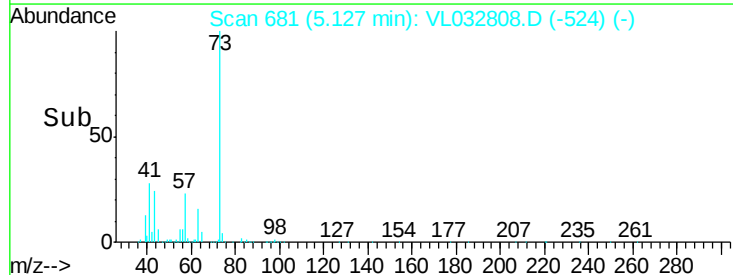
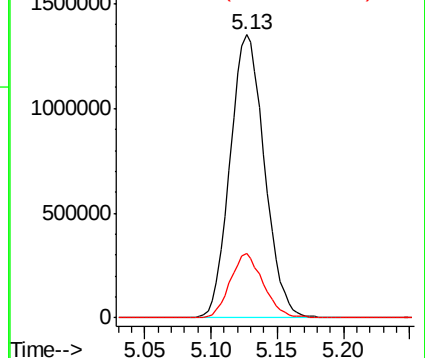
73 100

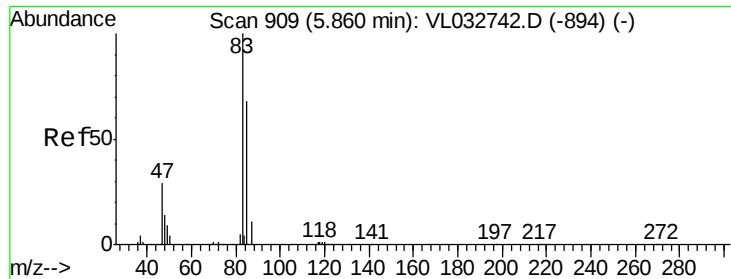
57 22.0 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.95 ppbv

RT: 5.87 min Scan# 911

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 2373042

Ion Ratio Lower Upper

83 100

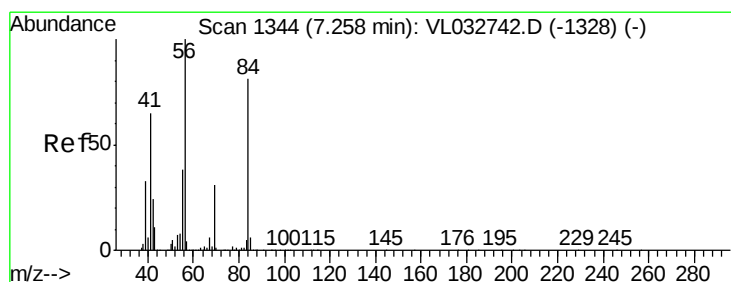
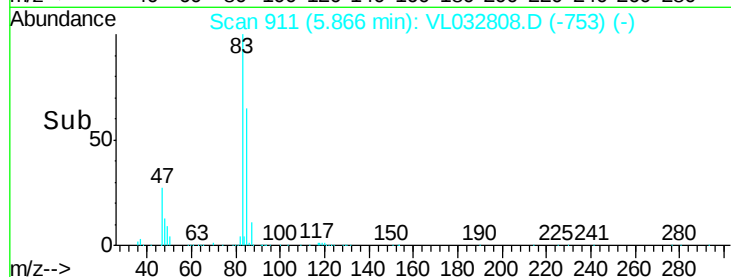
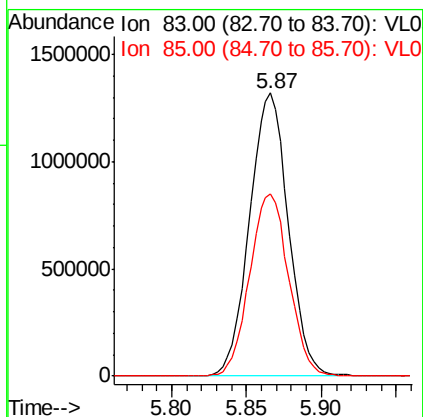
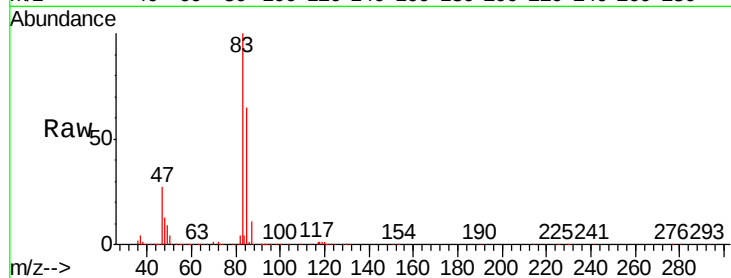
85 64.4 54.2 81.4

Manual Integrations

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#30

Cyclohexane

Concen: 11.43 ppbv

RT: 7.26 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

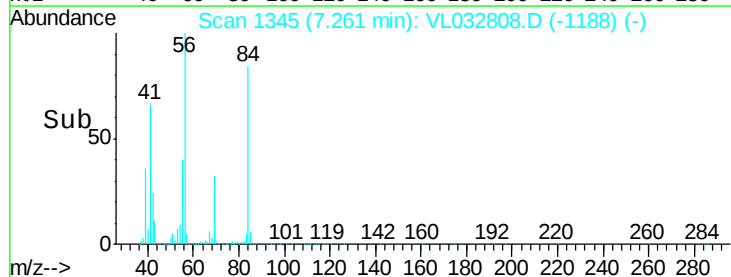
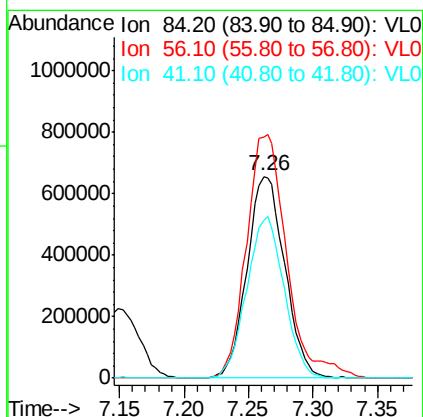
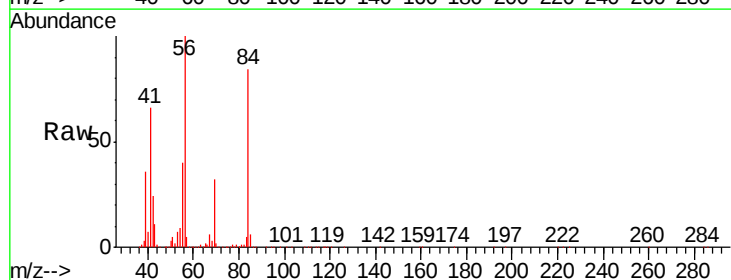
Tgt Ion: 84 Resp: 1338254

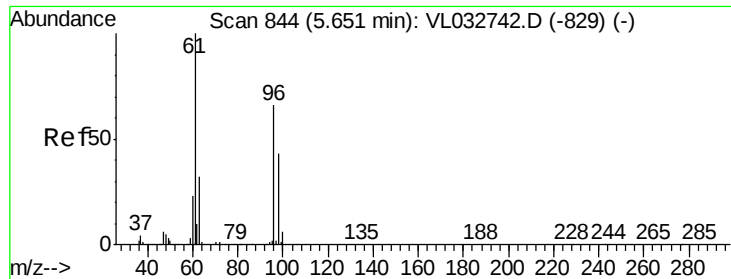
Ion Ratio Lower Upper

84 100

56 129.3 105.0 157.4

41 79.4 65.3 97.9





#31

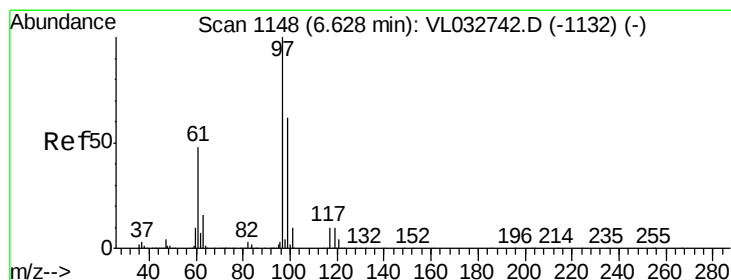
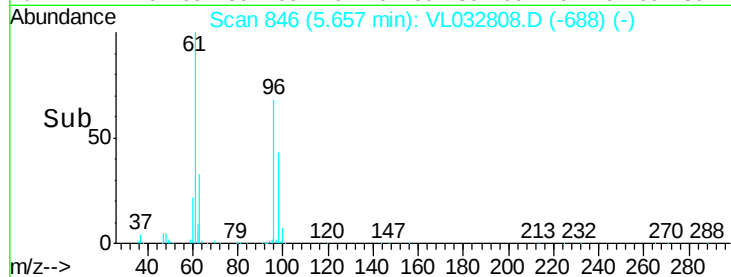
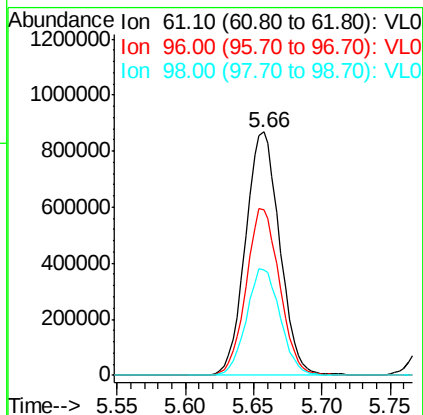
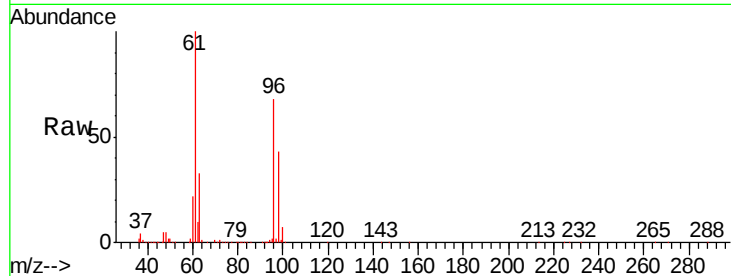
cis-1,2-Dichloroethene  
 Concen: 11.22 ppbv  
 RT: 5.66 min Scan# 846  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 67.9  | 53.2  | 79.8  |
| 98      | 43.1  | 34.4  | 51.6  |

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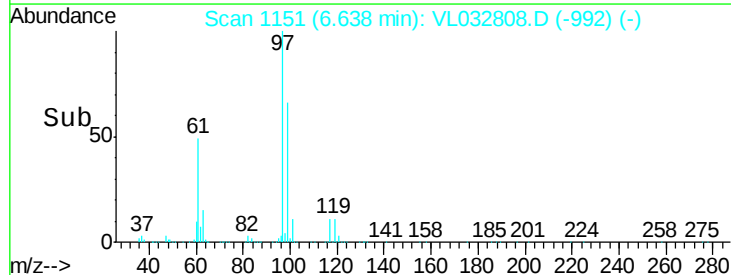
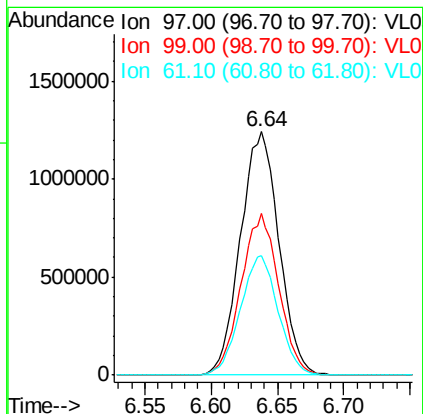
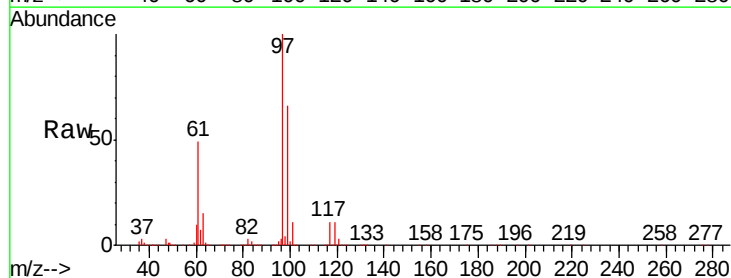
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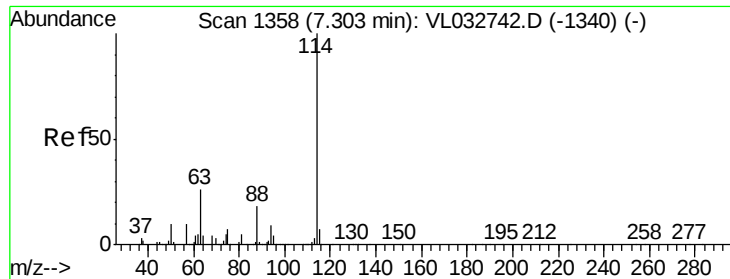


#32

1,1,1-Trichloroethane  
 Concen: 9.57 ppbv  
 RT: 6.64 min Scan# 1151  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.1  | 51.8  | 77.6  |
| 61      | 48.3  | 39.7  | 59.5  |





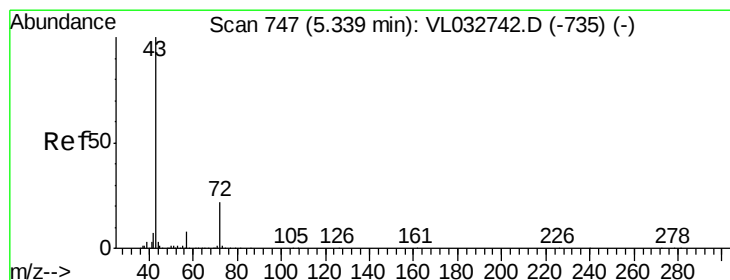
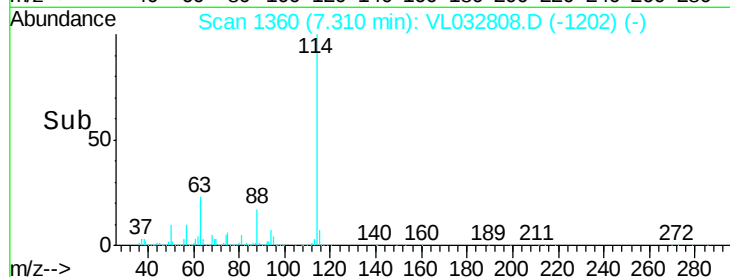
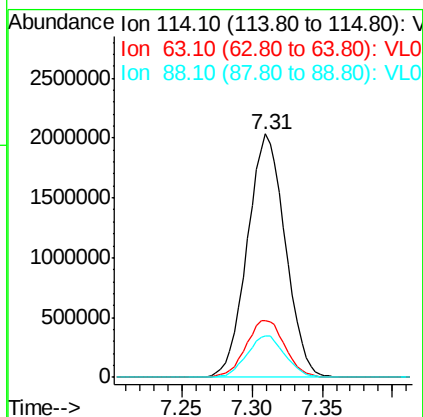
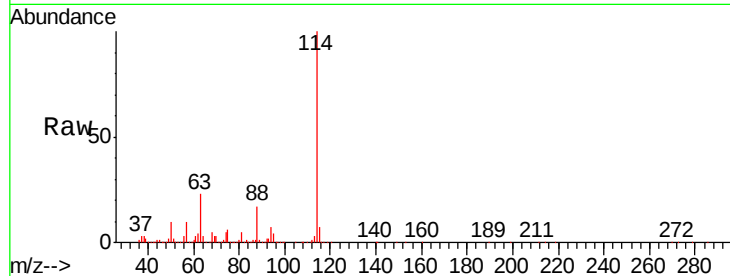
#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 7.31 min Scan# 1360  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 114 Resp: 3827229  
 Ion Ratio Lower Upper  
 114 100  
 63 24.5 20.9 31.3  
 88 17.2 14.4 21.6

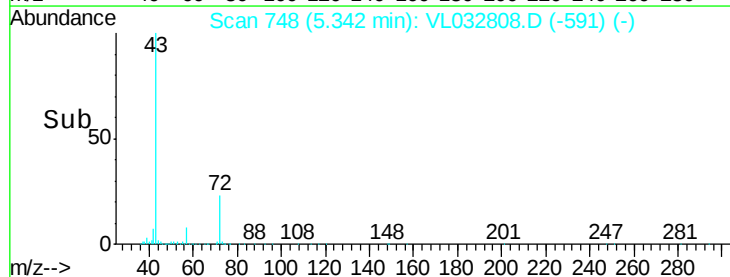
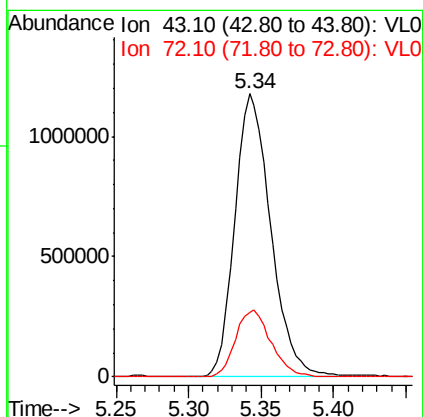
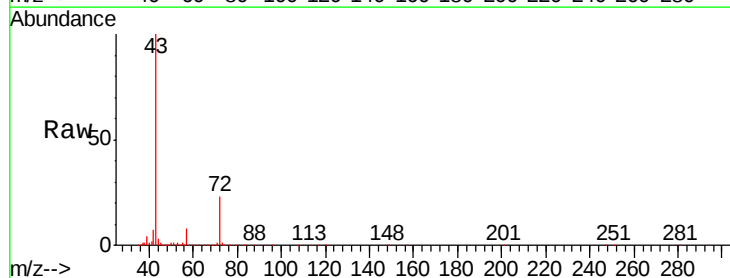
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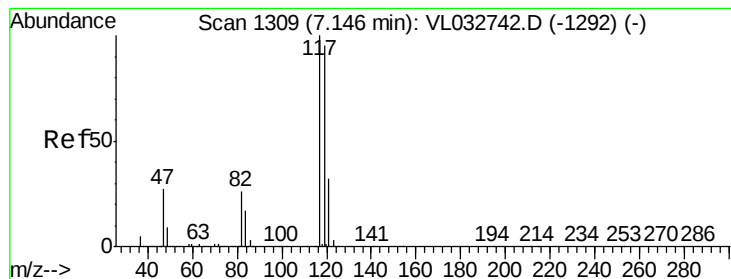
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#34  
 2-Butanone  
 Concen: 10.15 ppbv  
 RT: 5.34 min Scan# 748  
 Delta R.T. 0.00 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Tgt Ion: 43 Resp: 2015200  
 Ion Ratio Lower Upper  
 43 100  
 72 23.7 18.4 27.6





#35

Carbon Tetrachloride

Concen: 9.06 ppbv

RT: 7.15 min Scan# 1311

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 117 Resp: 2786653

Ion Ratio Lower Upper

117 100

119 97.2 76.1 114.1

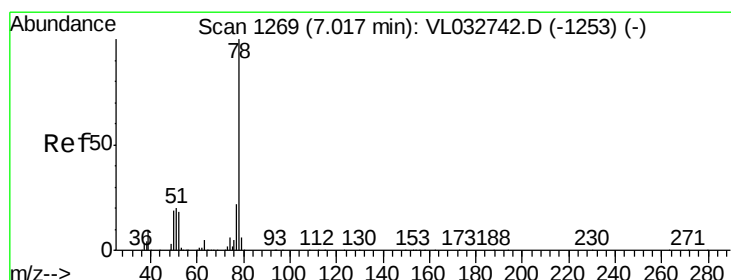
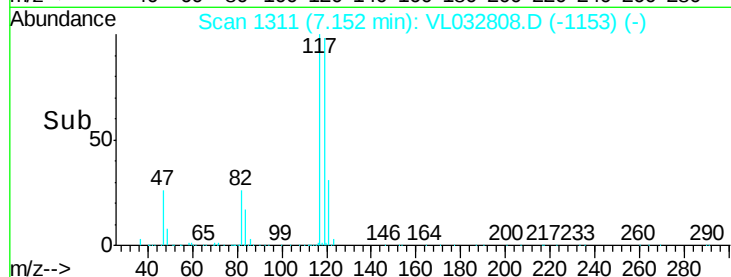
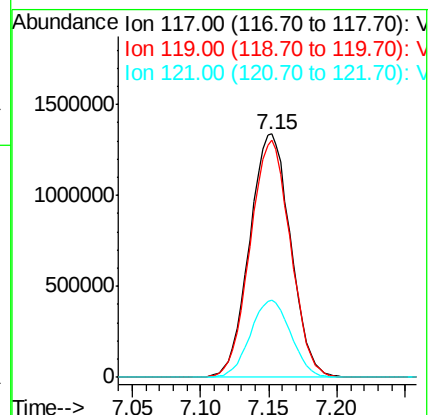
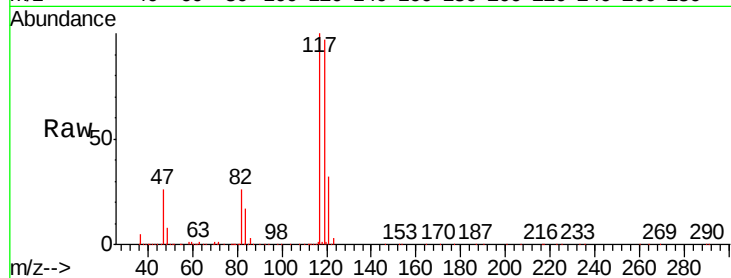
121 31.5 25.4 38.0

Manual Integrations

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#36

Benzene

Concen: 10.31 ppbv

RT: 7.02 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

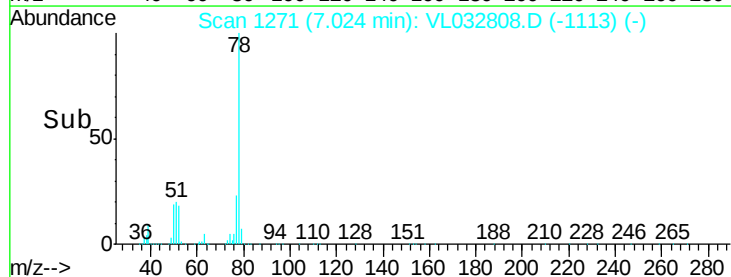
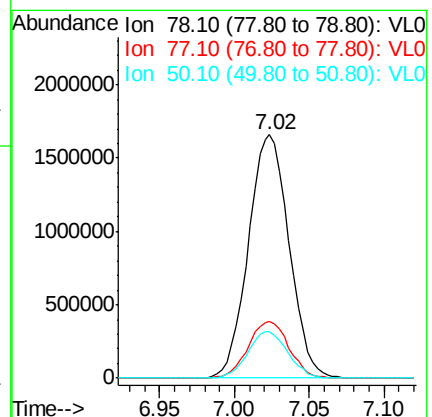
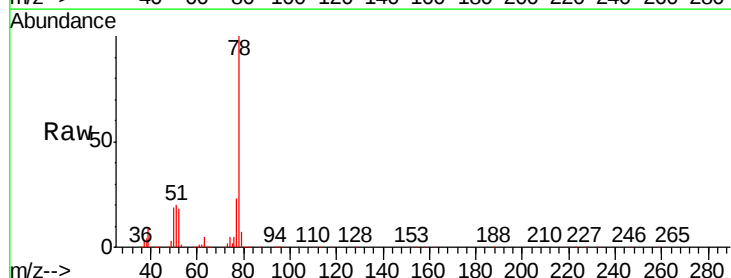
Tgt Ion: 78 Resp: 3141853

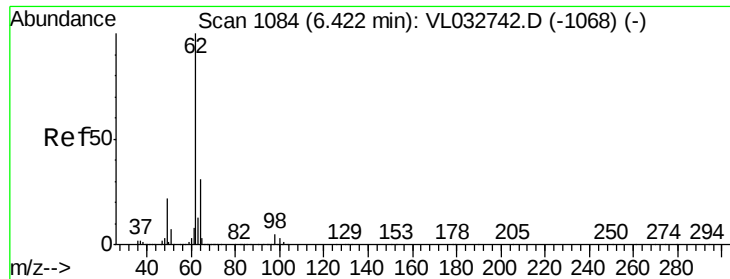
Ion Ratio Lower Upper

78 100

77 23.1 17.8 26.8

50 18.9 15.4 23.0





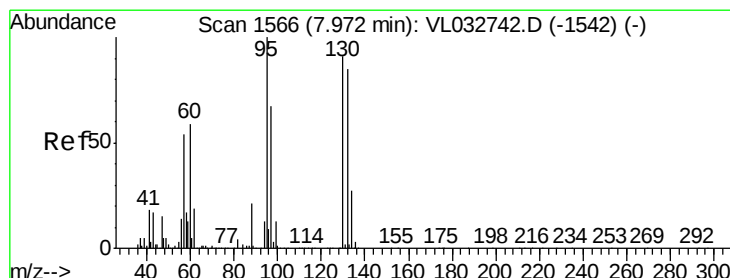
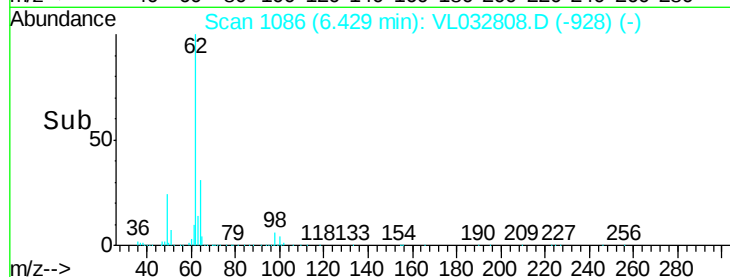
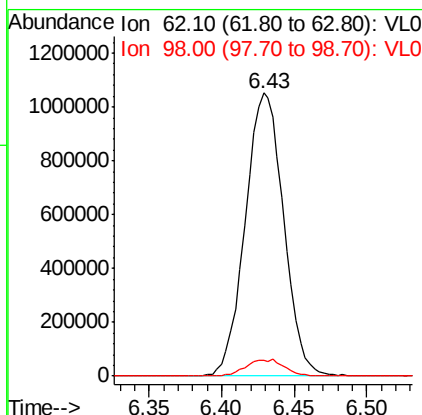
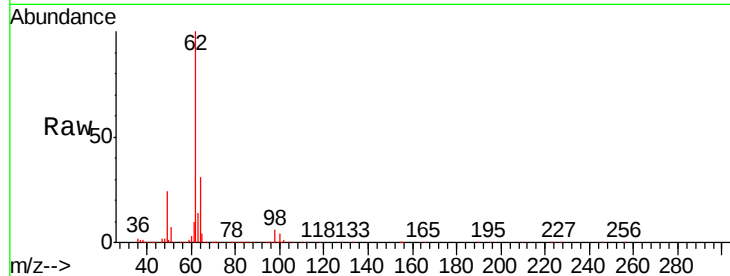
#37  
 1,2-Dichloroethane  
 Concen: 9.44 ppbv  
 RT: 6.43 min Scan# 1086  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 62 Resp: 1936688  
 Ion Ratio Lower Upper  
 62 100  
 98 6.0 4.5 6.7

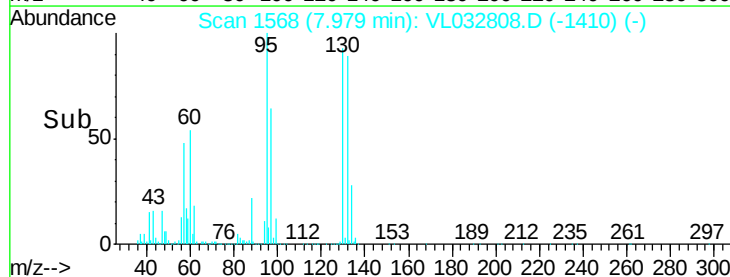
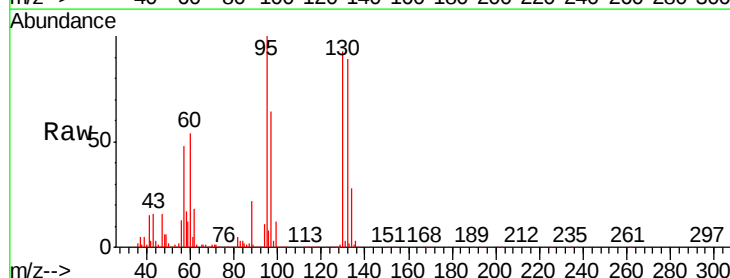
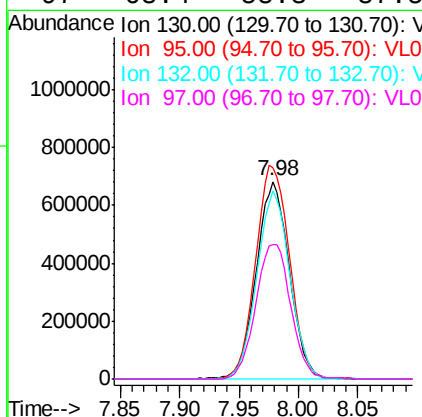
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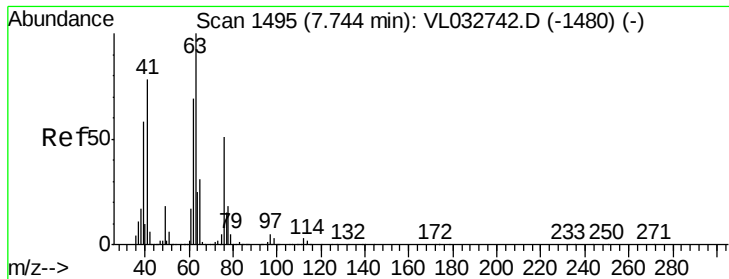
MMDadoda  
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#38  
 Trichloroethene  
 Concen: 10.64 ppbv  
 RT: 7.98 min Scan# 1568  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Tgt Ion: 130 Resp: 1312254  
 Ion Ratio Lower Upper  
 130 100  
 95 107.1 87.7 131.5  
 132 95.1 74.6 111.8  
 97 68.4 58.3 87.5





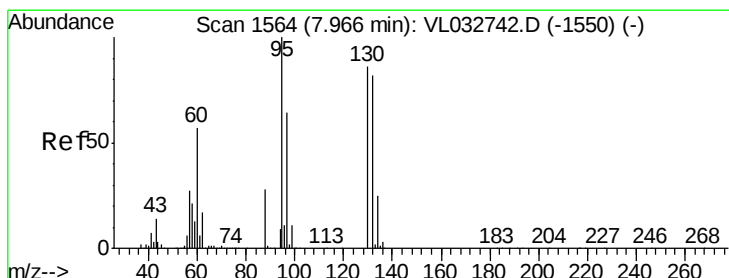
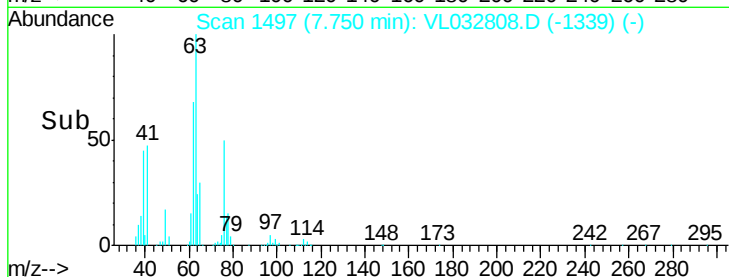
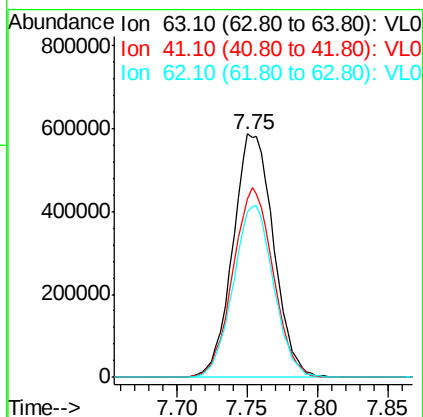
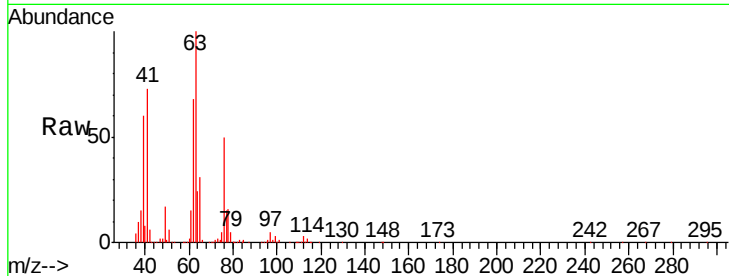
#39  
 1,2-Dichloropropane  
 Concen: 10.16 ppbv  
 RT: 7.75 min Scan# 1497  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 73.3  | 62.0  | 93.0  |
| 62      | 67.7  | 55.4  | 83.2  |

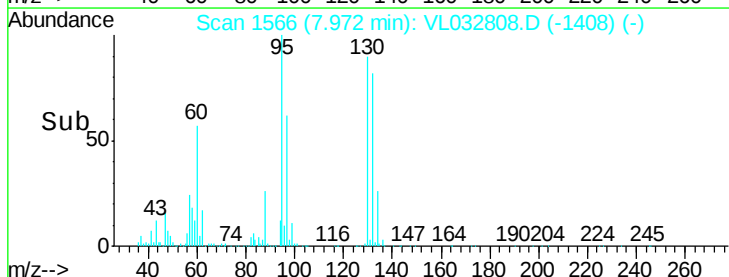
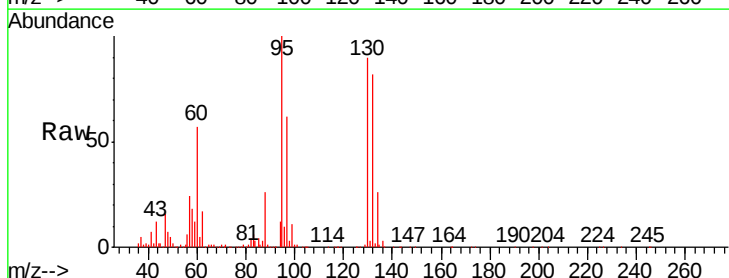
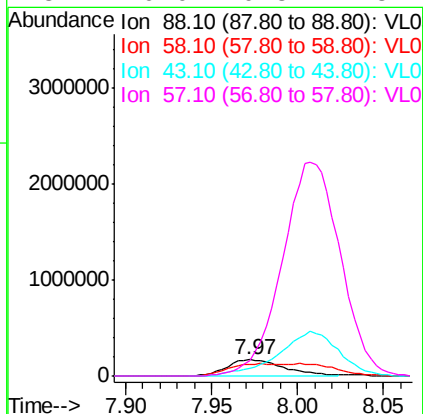
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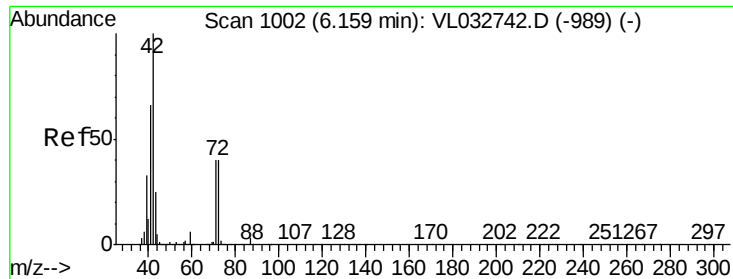
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#40  
 1,4-Dioxane  
 Concen: 9.42 ppbv  
 RT: 7.97 min Scan# 1566  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

| Tgt Ion | Ratio | Lower  | Upper   |
|---------|-------|--------|---------|
| 88      | 100   |        |         |
| 58      | 0.0   | 105.3  | 157.9#  |
| 43      | 0.0   | 226.1  | 339.1#  |
| 57      | 0.0   | 1015.2 | 1522.8# |





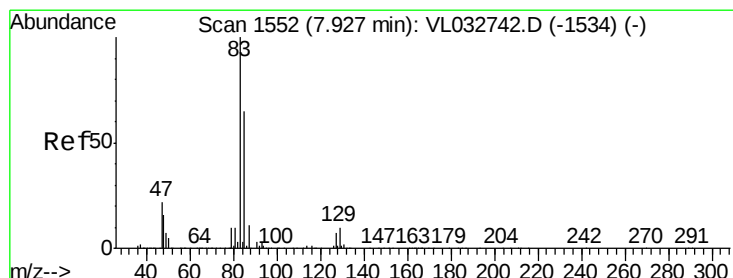
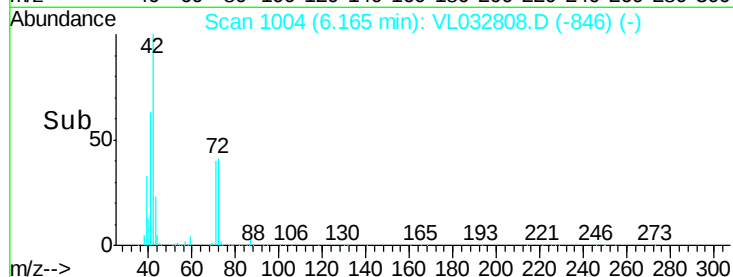
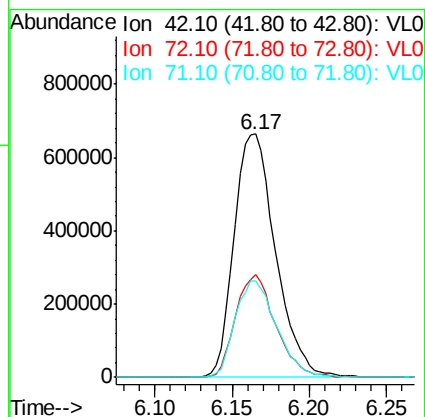
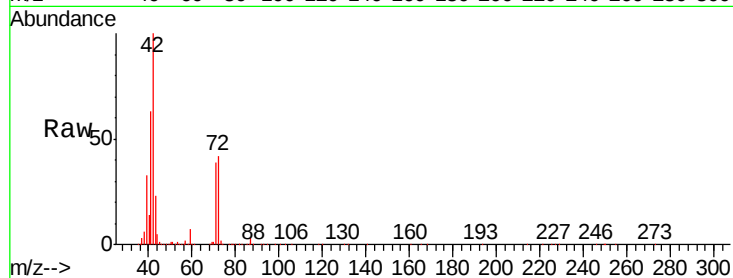
#41  
Tetrahydrofuran  
Concen: 10.87 ppbv  
RT: 6.17 min Scan# 1004  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 42 Resp: 1237432  
Ion Ratio Lower Upper  
42 100  
72 41.0 32.4 48.6  
71 39.9 31.6 47.4

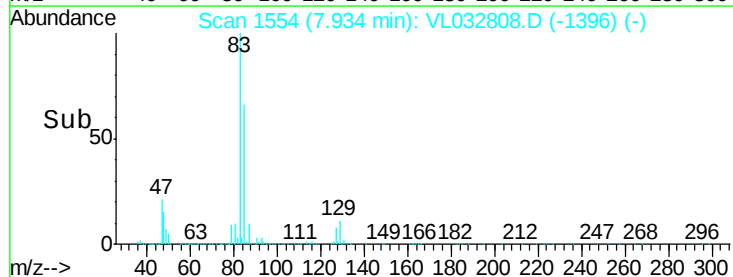
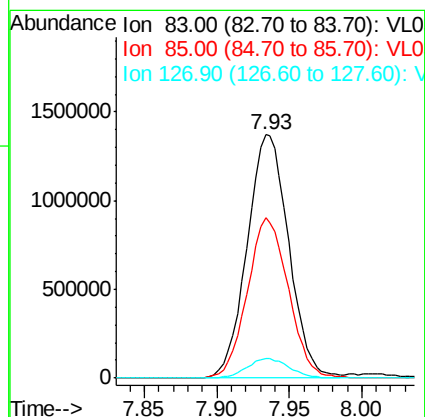
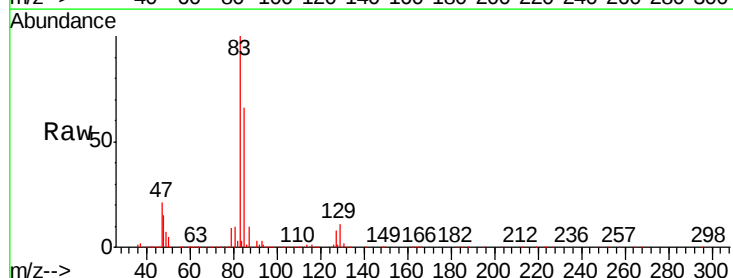
Manual Integrations  
APPROVED

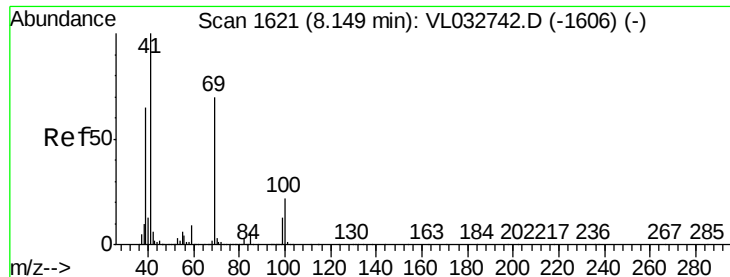
MMDadoda  
11/28/2018 4:21:23 PM



#42  
Bromodichloromethane  
Concen: 9.83 ppbv  
RT: 7.93 min Scan# 1554  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion: 83 Resp: 2735180  
Ion Ratio Lower Upper  
83 100  
85 65.9 51.8 77.8  
127 8.2 5.9 8.9





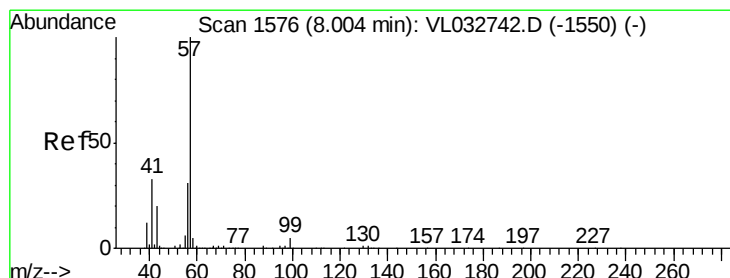
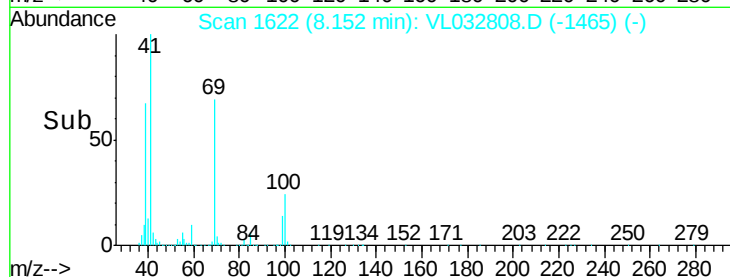
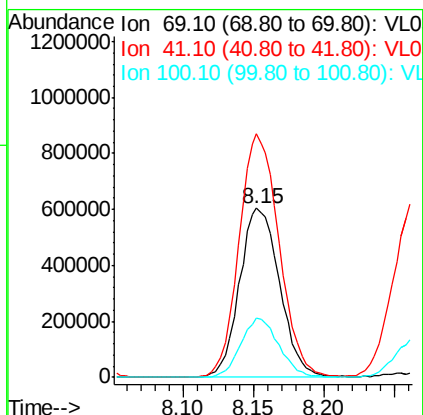
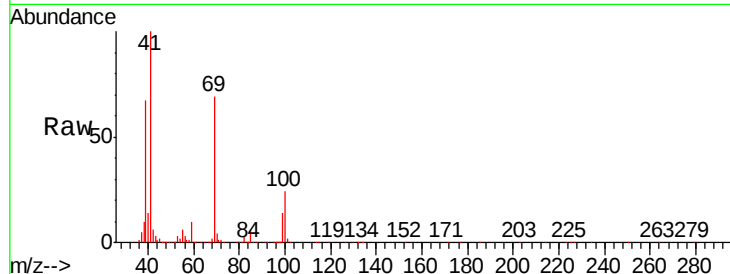
#43  
Methyl Methacrylate  
Concen: 10.58 ppbv  
RT: 8.15 min Scan# 1622  
Delta R.T. 0.00 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 69 Resp: 1203695  
Ion Ratio Lower Upper  
69 100  
41 143.3 115.0 172.4  
100 33.5 25.4 38.0

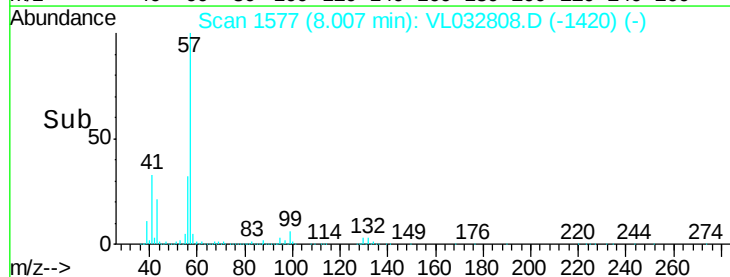
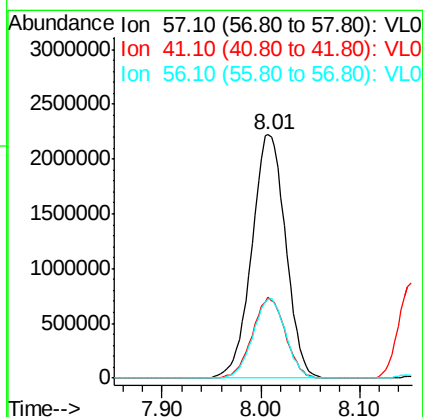
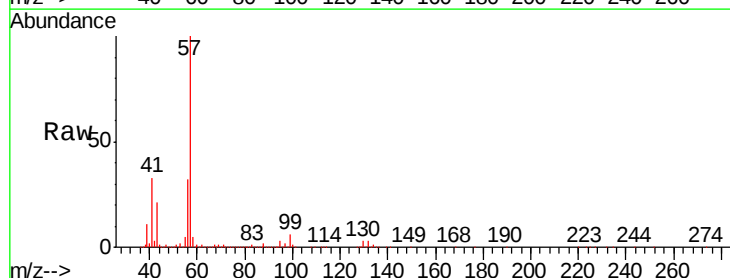
Manual Integrations  
APPROVED

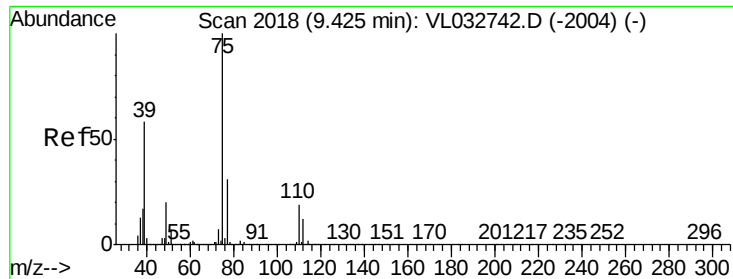
MMDadoda  
11/28/2018 4:21:23 PM



#44  
2,2,4-Trimethylpentane  
Concen: 10.30 ppbv  
RT: 8.01 min Scan# 1577  
Delta R.T. 0.00 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion: 57 Resp: 5248239  
Ion Ratio Lower Upper  
57 100  
41 32.2 26.6 39.8  
56 31.4 24.8 37.2





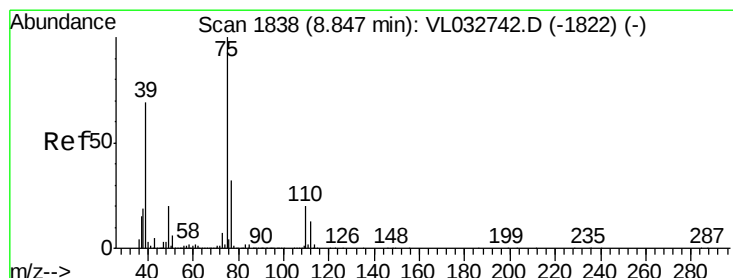
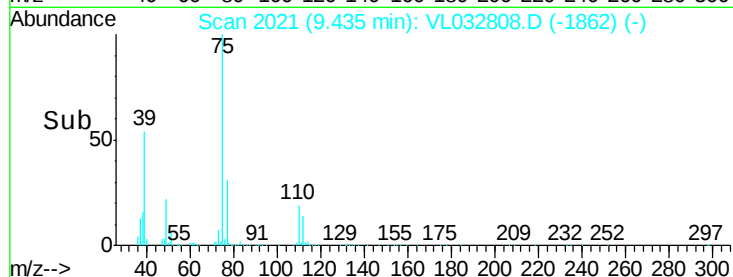
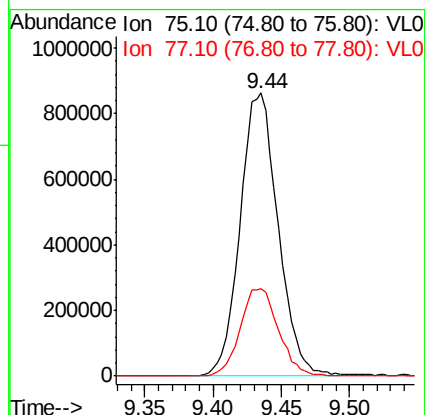
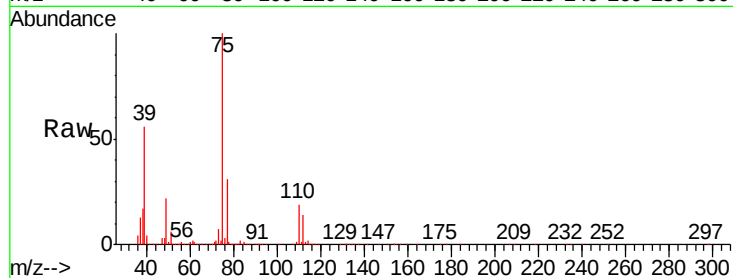
#45  
t-1,3-Dichloropropene  
Concen: 10.92 ppbv  
RT: 9.44 min Scan# 2021  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 75 Resp: 1666786  
Ion Ratio Lower Upper  
75 100  
77 31.0 24.6 36.8

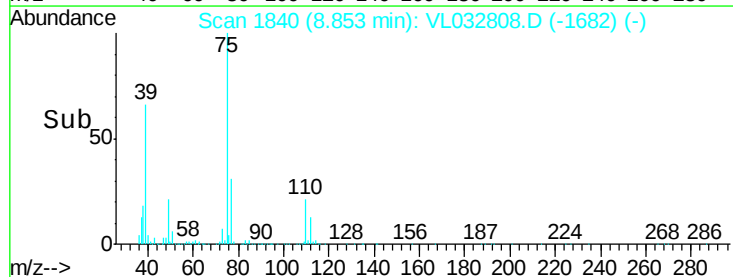
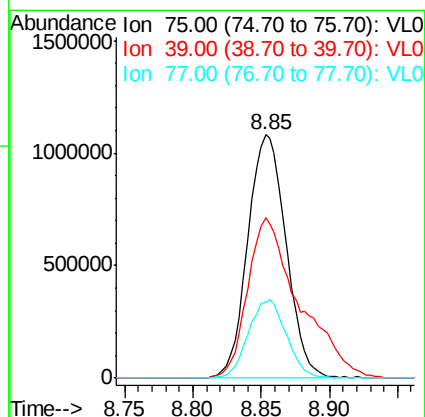
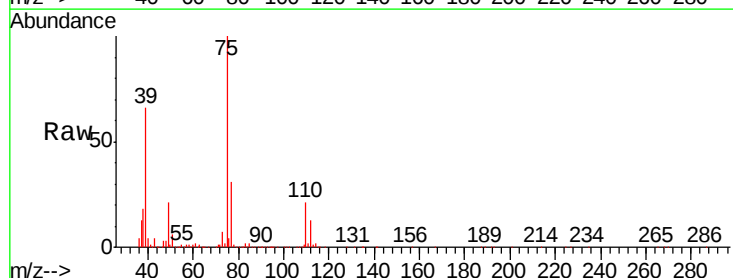
Manual Integrations  
APPROVED

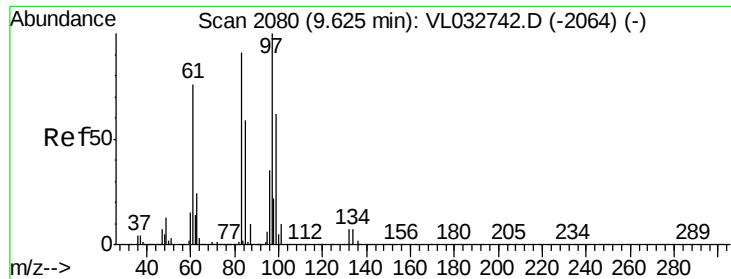
MMDadoda  
11/28/2018 4:21:23 PM



#46  
cis-1,3-Dichloropropene  
Concen: 11.43 ppbv  
RT: 8.85 min Scan# 1840  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion: 75 Resp: 2107852  
Ion Ratio Lower Upper  
75 100  
39 65.8 55.2 82.8  
77 31.3 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 10.30 ppbv

RT: 9.63 min Scan# 2083

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 1413585

Ion Ratio Lower Upper

97 100

83 90.3 73.0 109.4

85 58.9 47.0 70.4

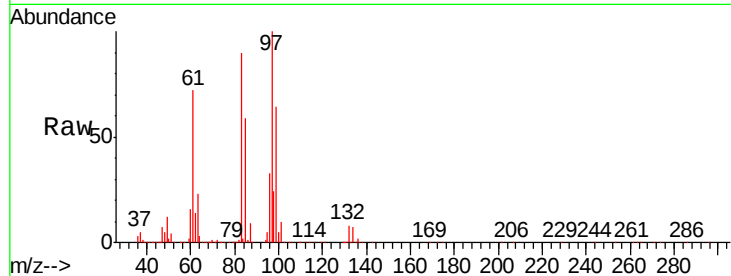
99 63.7 49.9 74.9

Manual Integrations

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MMDadoda

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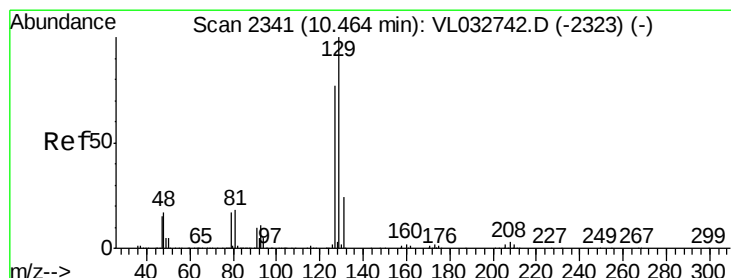
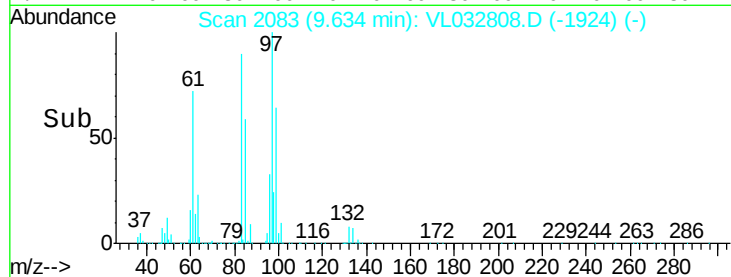
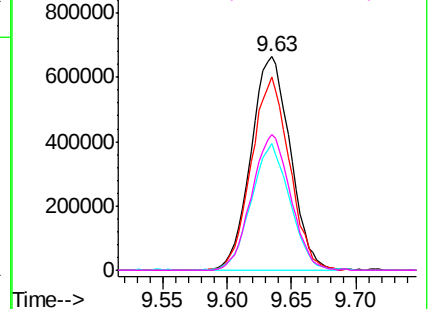
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.91 ppbv

RT: 10.47 min Scan# 2343

Delta R.T. 0.01 min

Lab File: VL032808.D

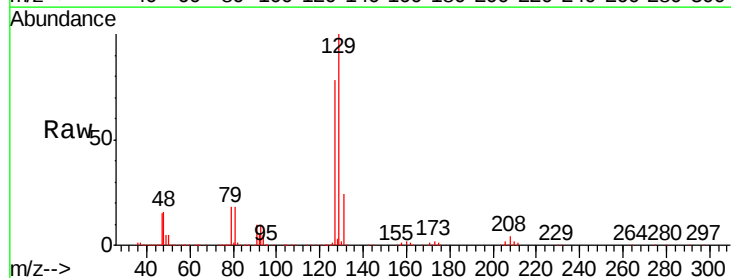
Acq: 27 Nov 2018 14:14

Tgt Ion: 129 Resp: 2313378

Ion Ratio Lower Upper

129 100

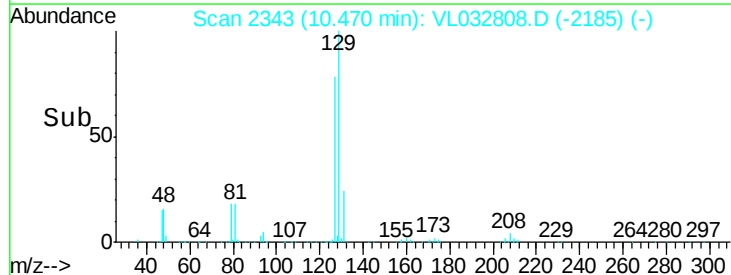
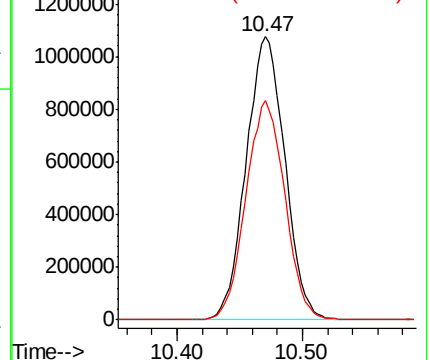
127 78.0 39.0 117.0

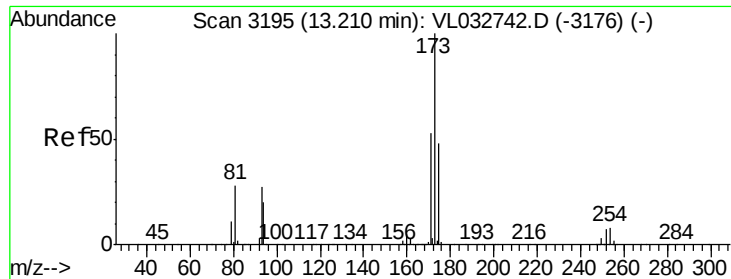


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





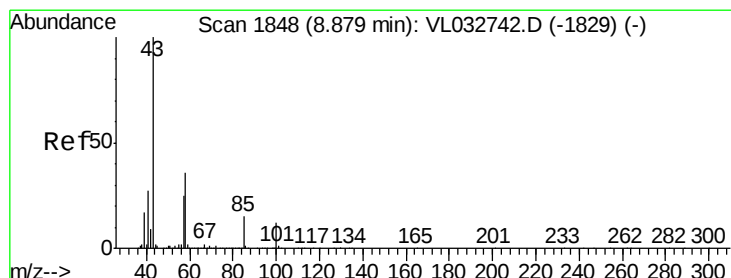
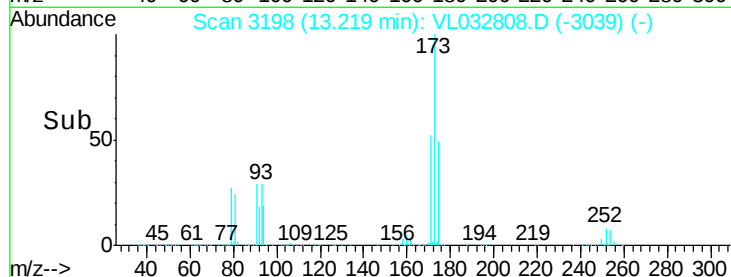
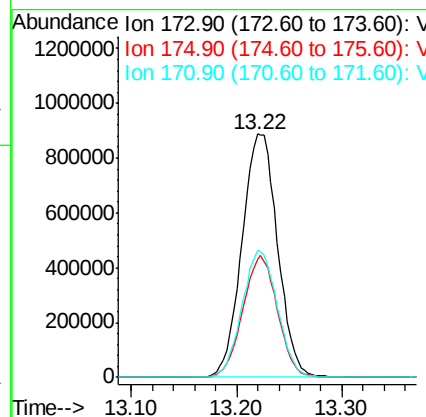
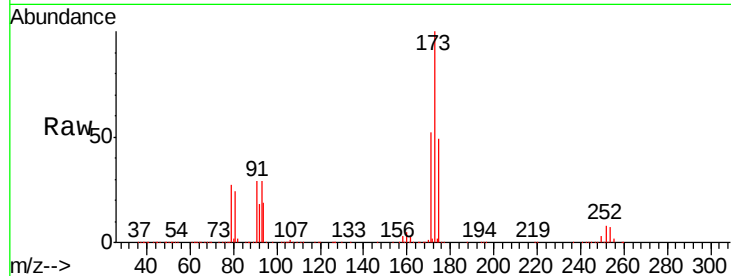
#49  
Bromoform  
Concen: 10.83 ppbv  
RT: 13.22 min Scan# 3198  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 173 Resp: 2087607  
Ion Ratio Lower Upper  
173 100  
175 48.6 39.4 59.0  
171 51.8 42.0 63.0

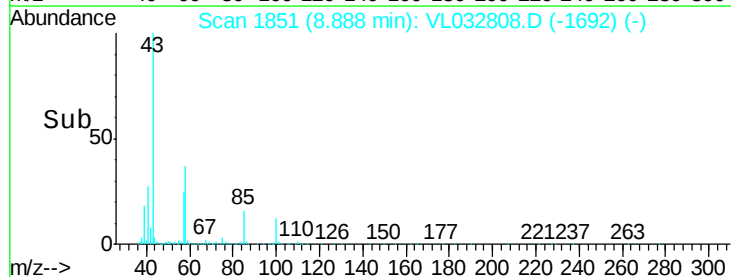
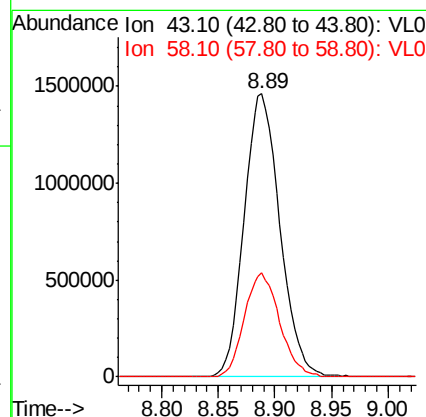
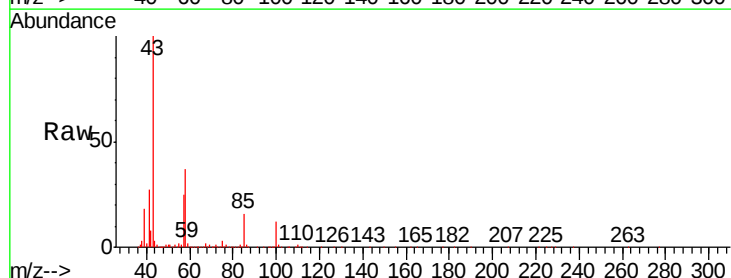
Manual Integrations  
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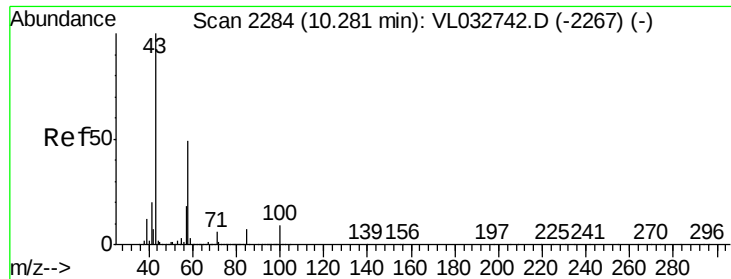
MMDadoda  
11/28/2018 4:21:23 PM



#50  
4-Methyl-2-Pentanone  
Concen: 10.38 ppbv  
RT: 8.89 min Scan# 1851  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion: 43 Resp: 3218968  
Ion Ratio Lower Upper  
43 100  
58 36.4 28.8 43.2





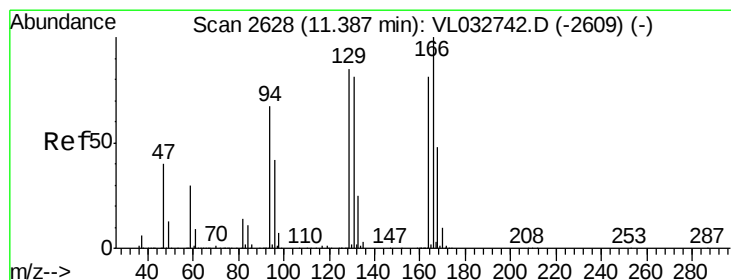
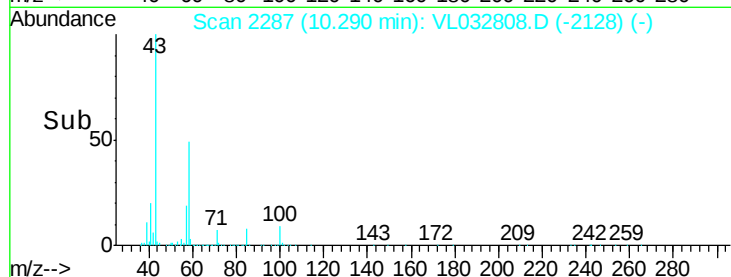
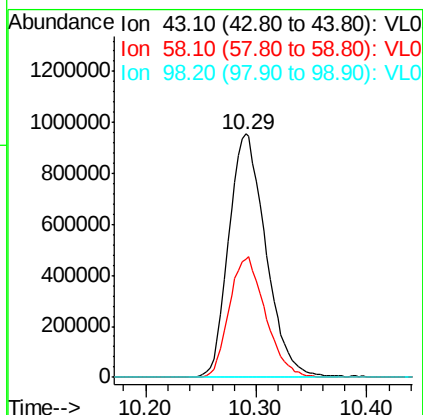
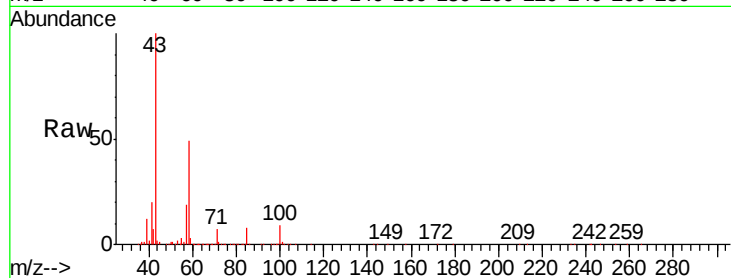
#51  
2-Hexanone  
Concen: 11.14 ppbv  
RT: 10.29 min Scan# 2287  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 2225223  
Ion Ratio Lower Upper  
43 100  
58 48.9 38.9 58.3  
98 0.4 0.2 0.4#

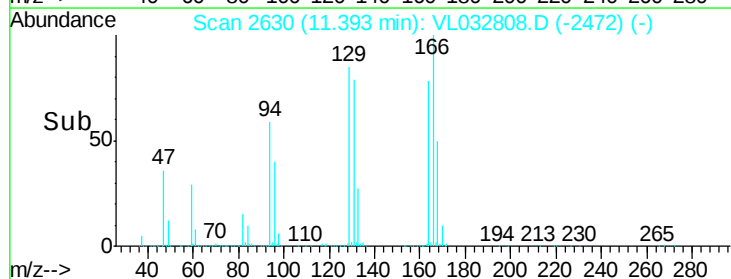
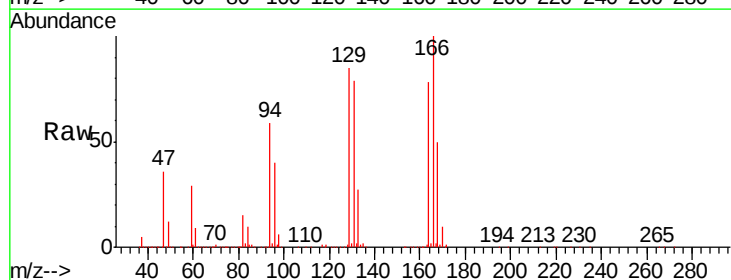
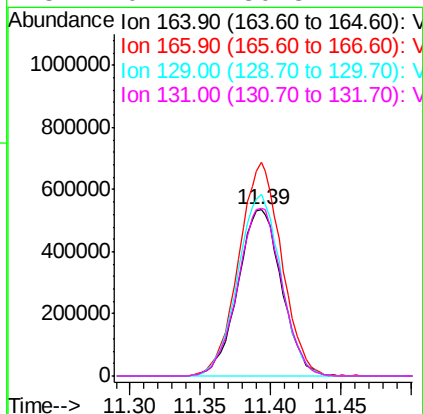
Manual Integrations  
APPROVED

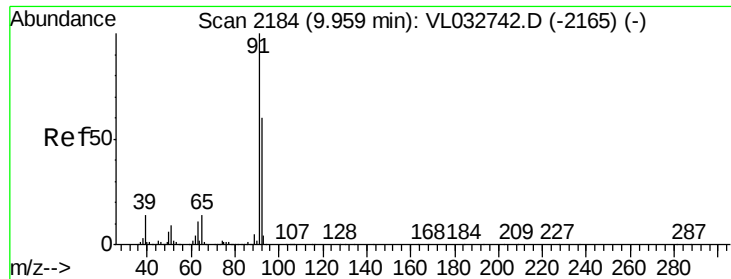
MMDadoda  
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#52  
Tetrachloroethene  
Concen: 10.92 ppbv  
RT: 11.39 min Scan# 2630  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion: 164 Resp: 1157487  
Ion Ratio Lower Upper  
164 100  
166 128.5 99.3 148.9  
129 109.0 83.9 125.9  
131 101.1 80.8 121.2





#53

Toluene

Concen: 11.65 ppbv

RT: 9.97 min Scan# 2186

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 3703146

Ion Ratio Lower Upper

91 100

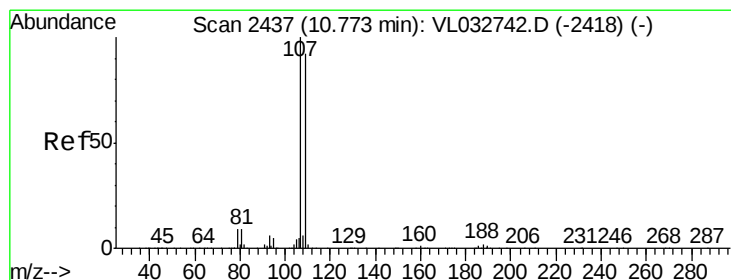
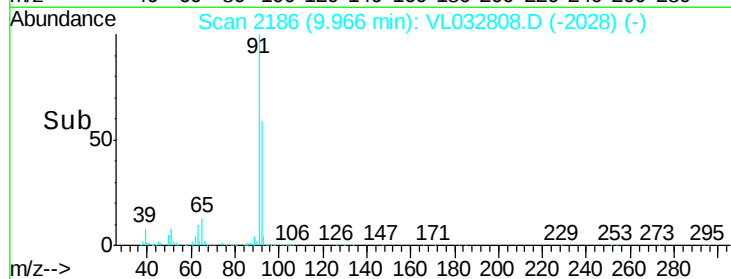
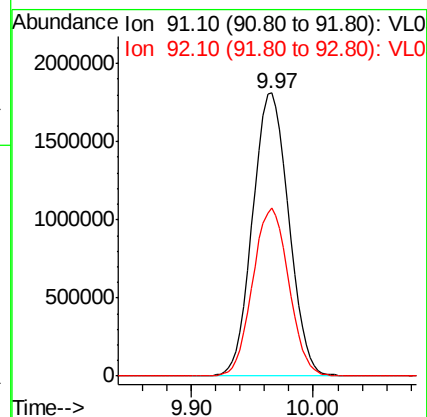
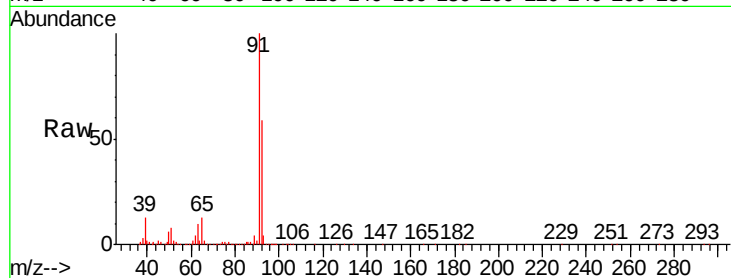
92 59.3 47.9 71.9

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.73 ppbv

RT: 10.78 min Scan# 2439

Delta R.T. 0.01 min

Lab File: VL032808.D

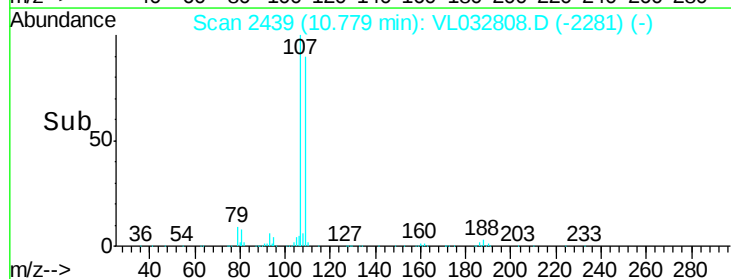
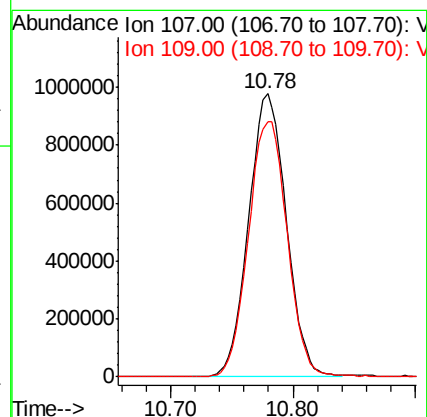
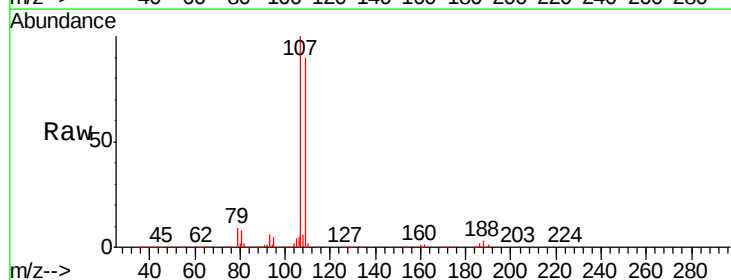
Acq: 27 Nov 2018 14:14

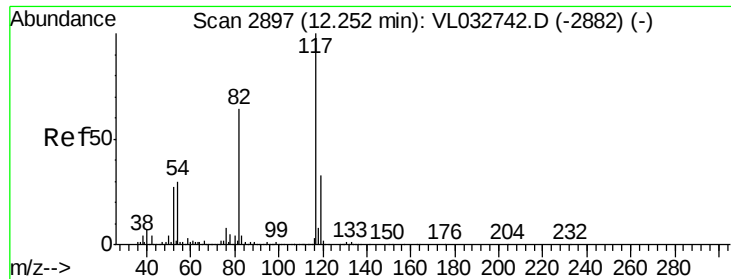
Tgt Ion: 107 Resp: 2082153

Ion Ratio Lower Upper

107 100

109 89.9 73.8 110.8





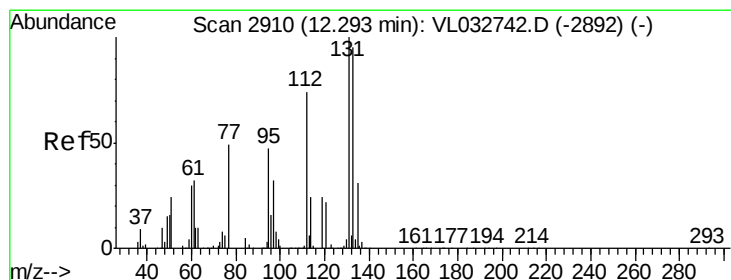
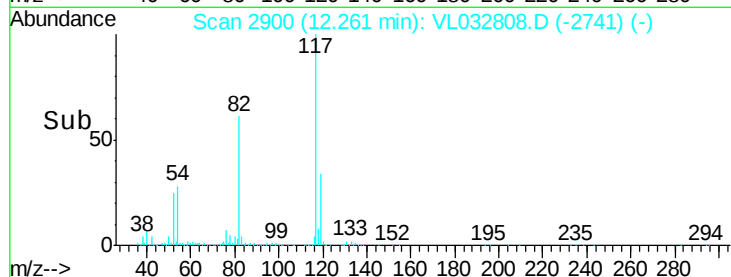
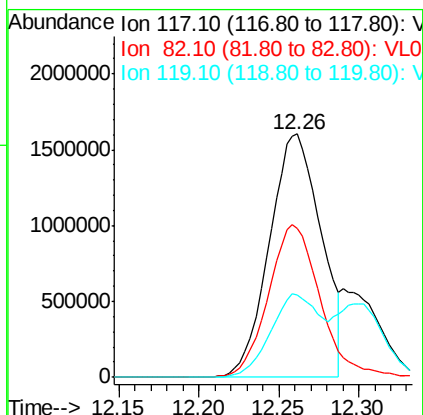
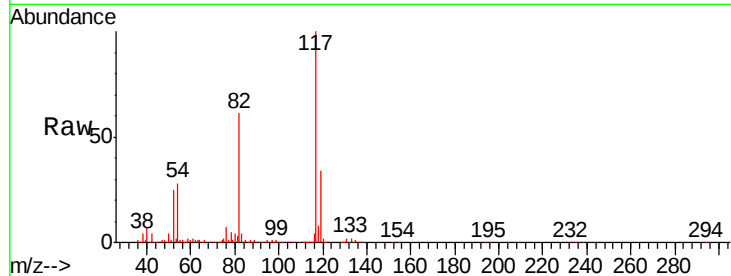
#55  
Chlorobenzene-d5  
Concen: 10.00 ppbv  
RT: 12.26 min Scan# 2900  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:117 Resp: 3613531  
Ion Ratio Lower Upper  
117 100  
82 62.7 51.0 76.6  
119 35.1 28.0 42.0

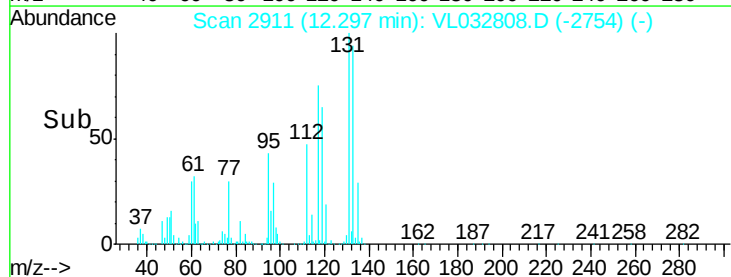
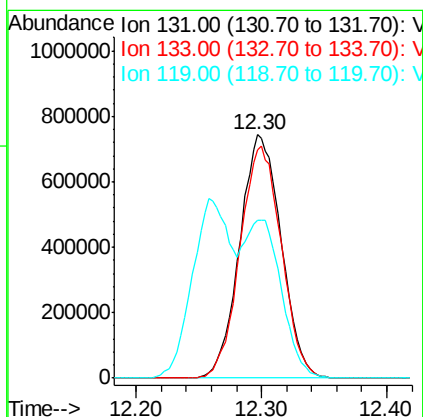
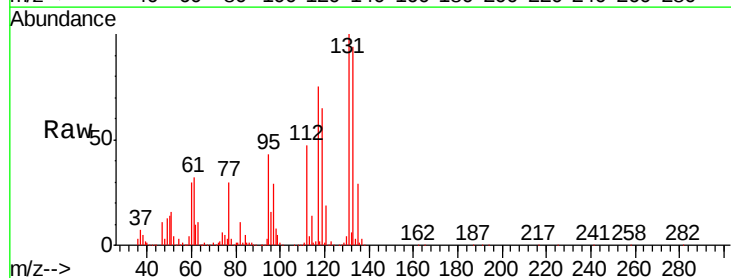
Manual Integrations  
APPROVED

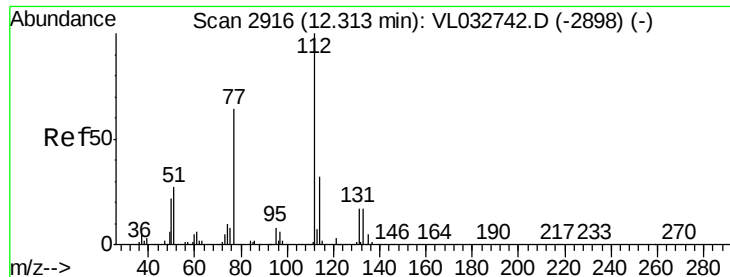
MMDadoda  
11/28/2018 4:21:23 PM



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.09 ppbv  
RT: 12.30 min Scan# 2911  
Delta R.T. 0.00 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion:131 Resp: 1700716  
Ion Ratio Lower Upper  
131 100  
133 95.4 75.8 113.6  
119 55.4 45.2 67.8





#57

Chlorobenzene

Concen: 10.20 ppbv

RT: 12.32 min Scan# 2919

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 112 Resp: 2822096

Ion Ratio Lower Upper

112 100

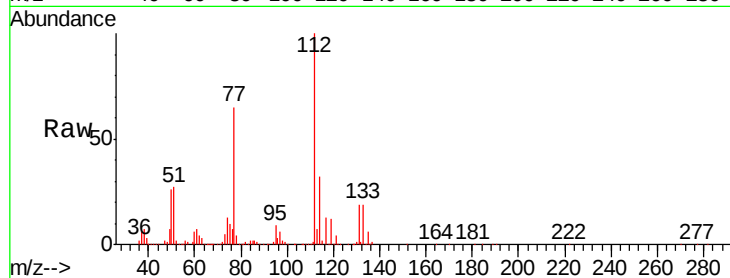
77 64.4 52.3 78.5

114 31.9 28.4 34.8

Manual Integrations  
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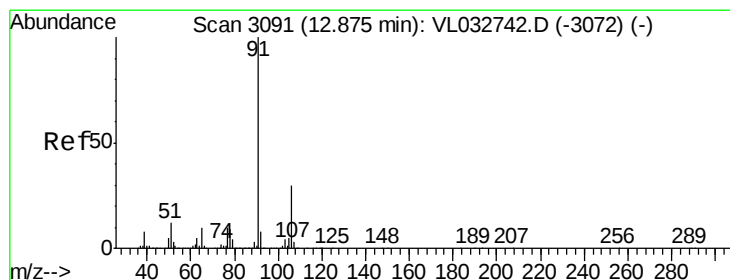
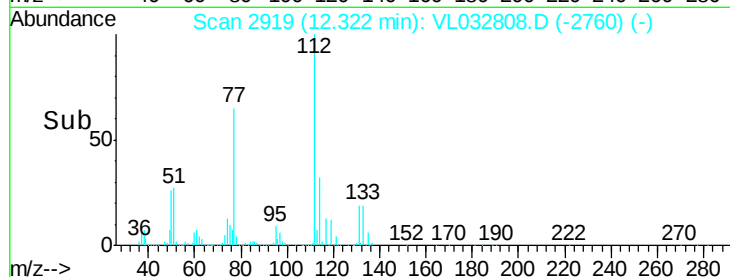
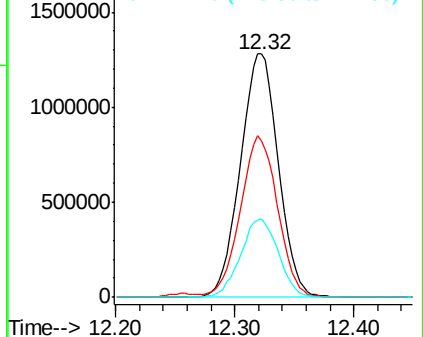
11/28/2018 4:21:23 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.40 ppbv

RT: 12.88 min Scan# 3093

Delta R.T. 0.01 min

Lab File: VL032808.D

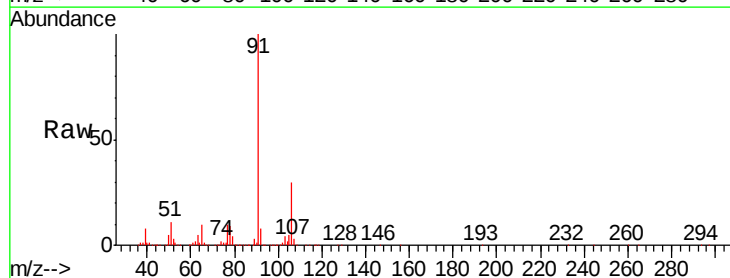
Acq: 27 Nov 2018 14:14

Tgt Ion: 91 Resp: 4955966

Ion Ratio Lower Upper

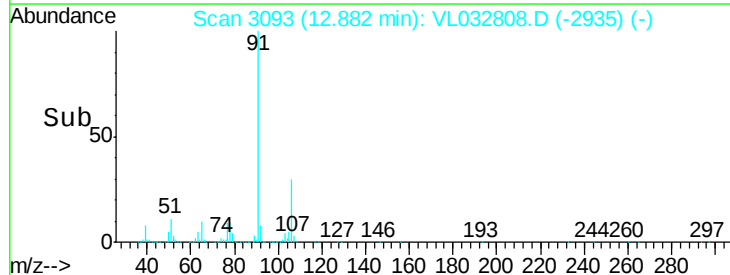
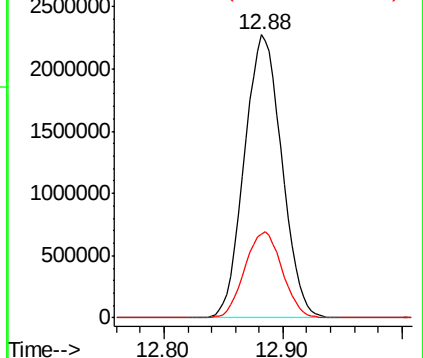
91 100

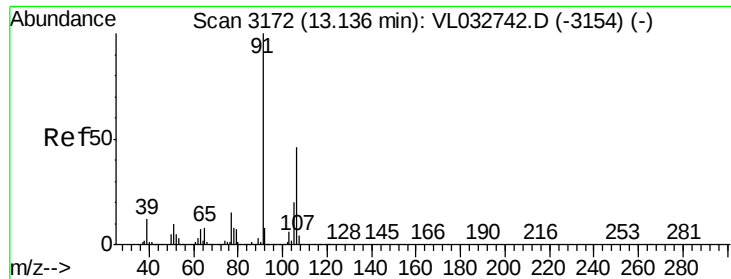
106 29.5 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





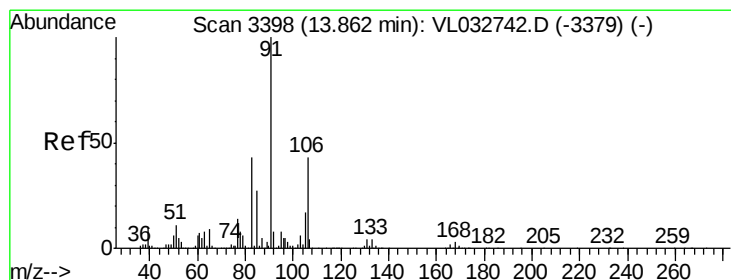
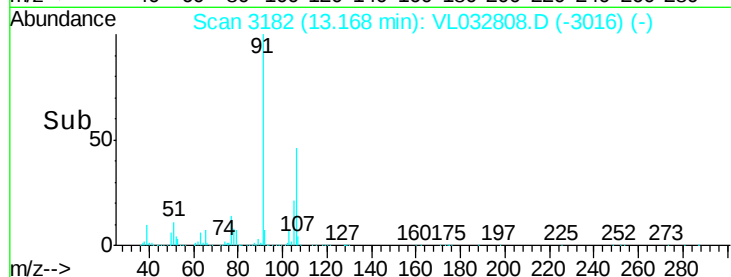
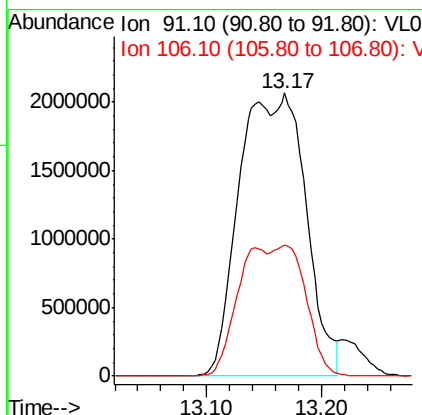
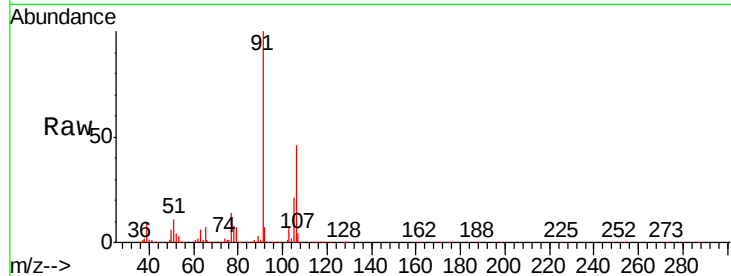
#59  
m/p-Xylene  
Concen: 21.36 ppbv m  
RT: 13.17 min Scan# 3182  
Delta R.T. 0.03 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 8268704  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.1 54.1#

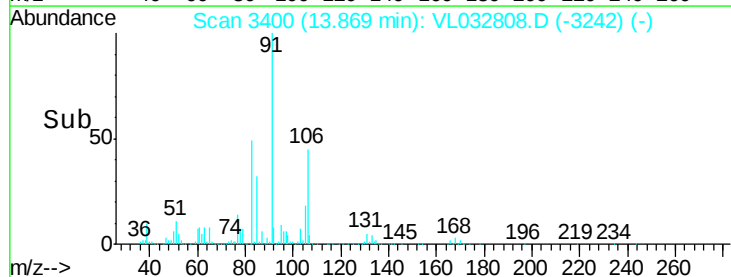
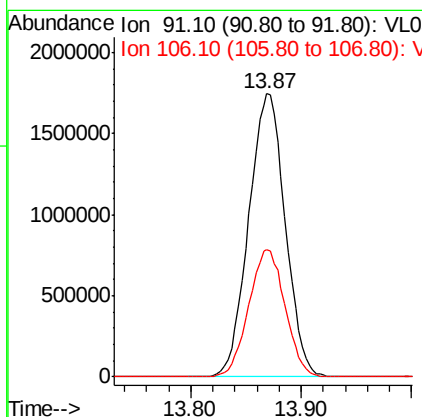
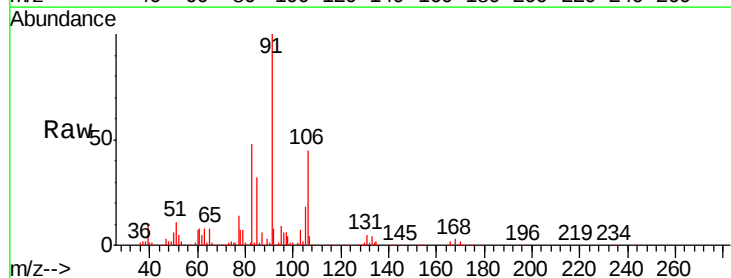
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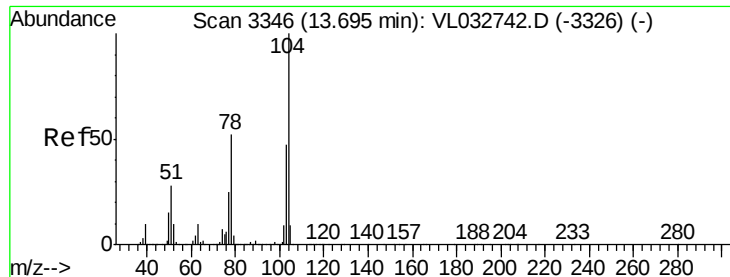
MMDadoda  
11/28/2018 4:21:23 PM



#60  
o-Xylene  
Concen: 10.25 ppbv  
RT: 13.87 min Scan# 3400  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion: 91 Resp: 3990497  
Ion Ratio Lower Upper  
91 100  
106 44.7 21.9 65.7





#61

Styrene

Concen: 12.05 ppbv

RT: 13.70 min Scan# 3349

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:104 Resp: 3052368

Ion Ratio Lower Upper

104 100

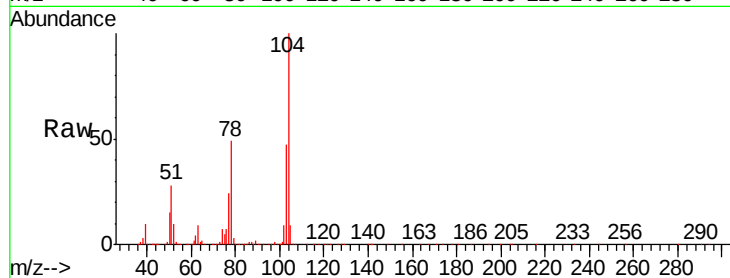
78 50.5 42.2 63.4

103 47.9 38.2 57.2

Manual Integrations  
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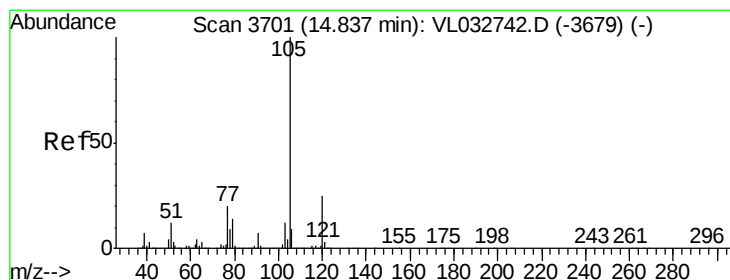
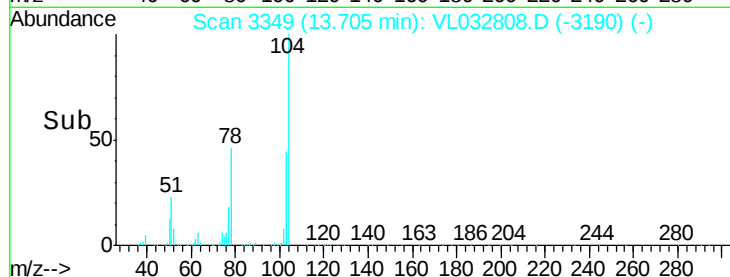
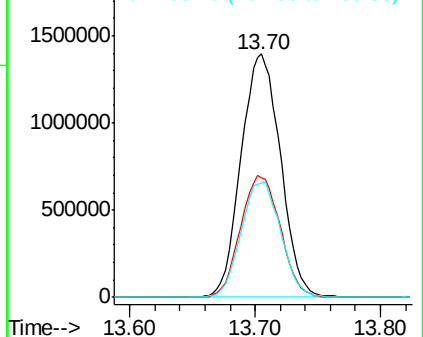
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.94 ppbv

RT: 14.85 min Scan# 3704

Delta R.T. 0.01 min

Lab File: VL032808.D

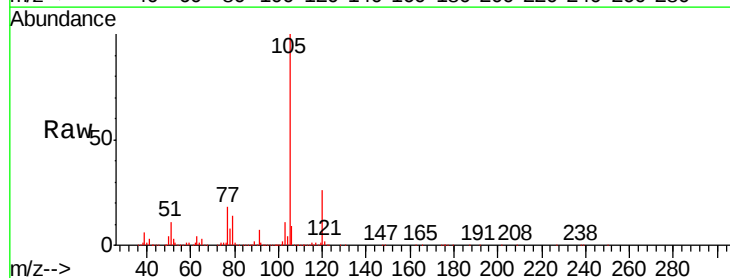
Acq: 27 Nov 2018 14:14

Tgt Ion:105 Resp: 5757702

Ion Ratio Lower Upper

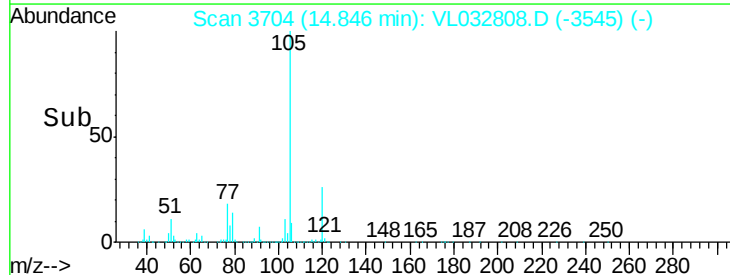
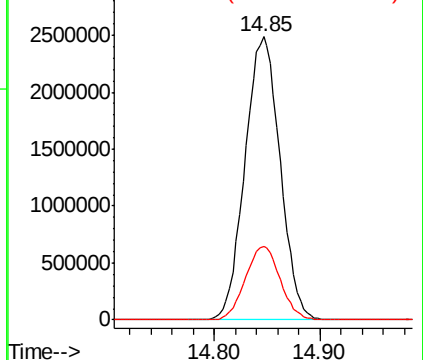
105 100

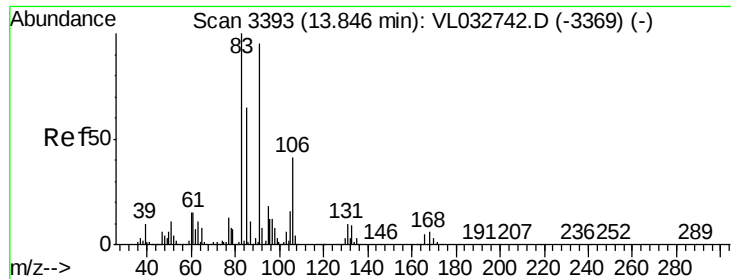
120 25.8 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.15 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 2776733

Ion Ratio Lower Upper

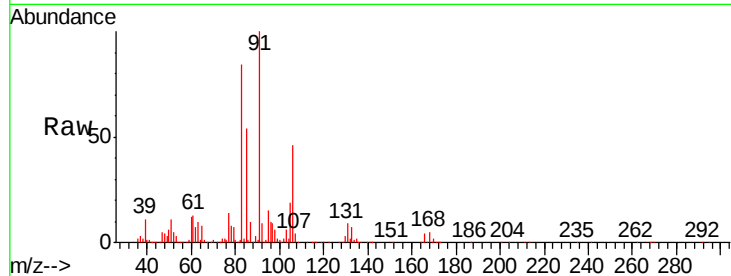
83 100

131 10.0 4.7 14.1

85 64.8 32.5 97.4

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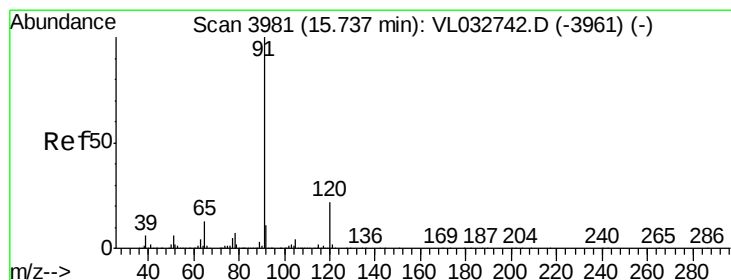
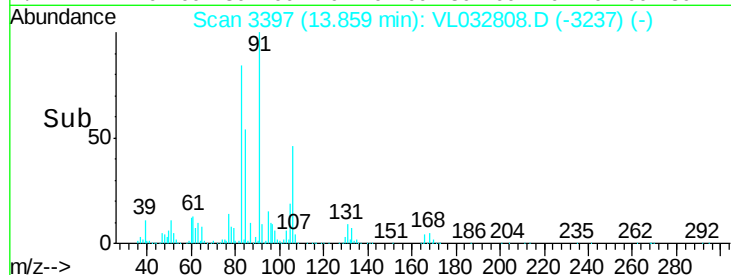
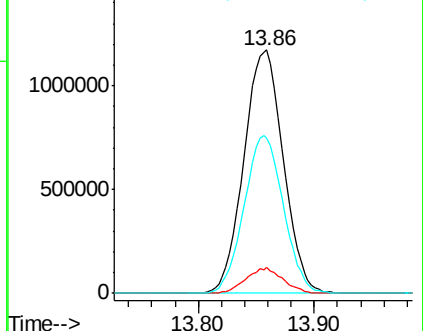
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.73 ppbv

RT: 15.74 min Scan# 3983

Delta R.T. 0.01 min

Lab File: VL032808.D

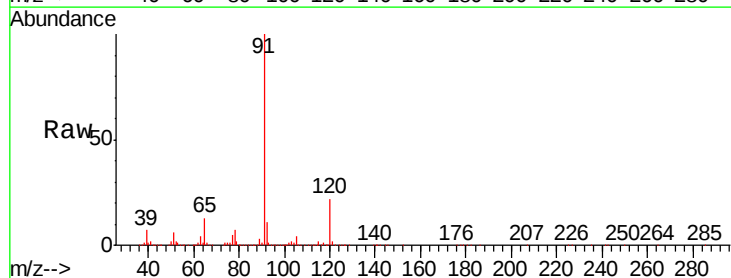
Acq: 27 Nov 2018 14:14

Tgt Ion: 120 Resp: 1484441

Ion Ratio Lower Upper

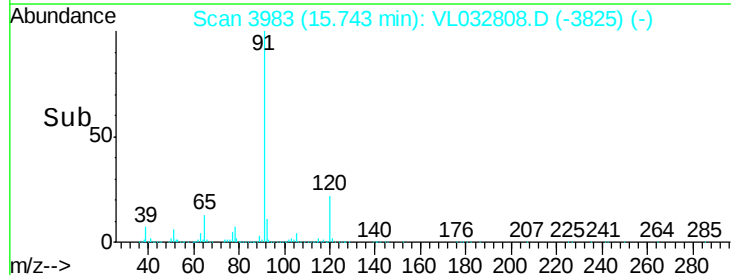
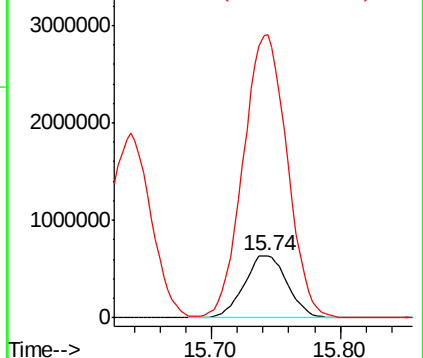
120 100

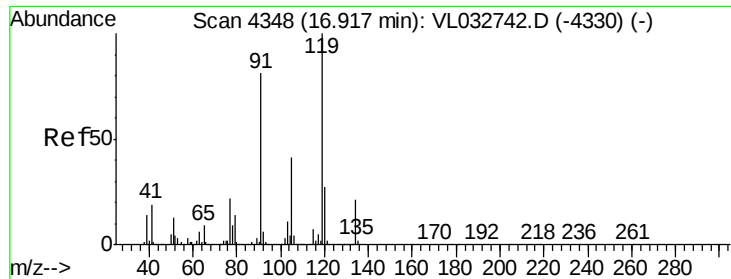
91 464.1 381.7 572.5



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





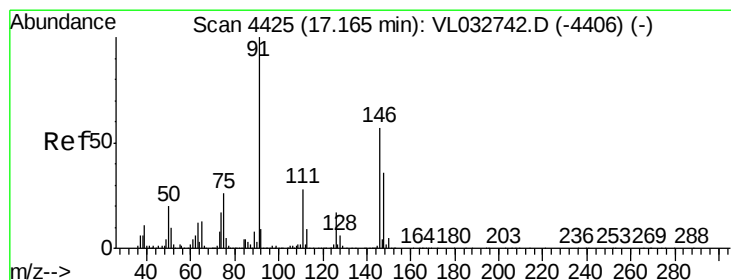
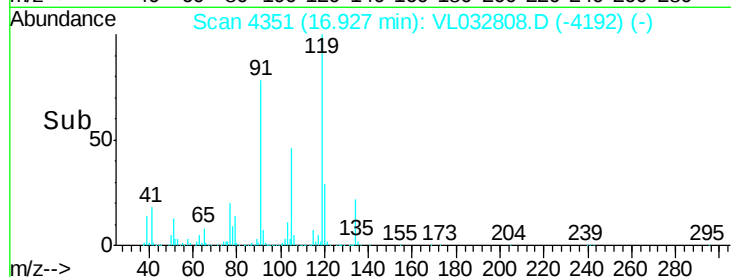
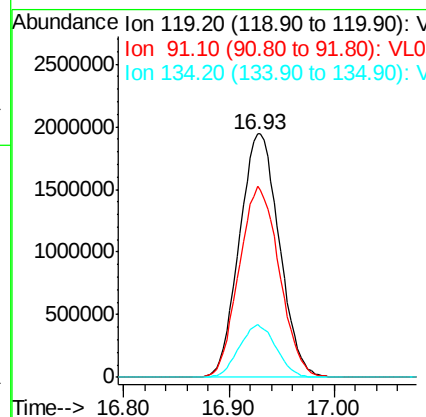
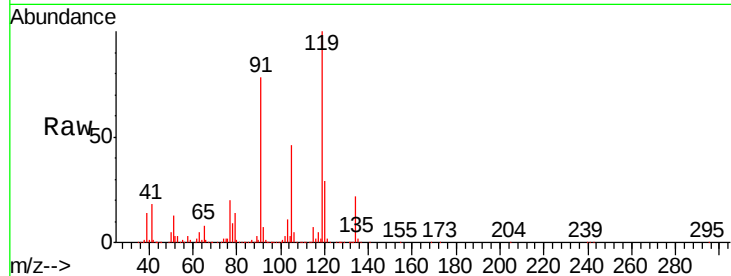
#65  
 tert-Butylbenzene  
 Concen: 10.79 ppbv  
 RT: 16.93 min Scan# 4351  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 119 Resp: 5088817  
 Ion Ratio Lower Upper  
 119 100  
 91 79.5 65.6 98.4  
 134 20.2 15.9 23.9

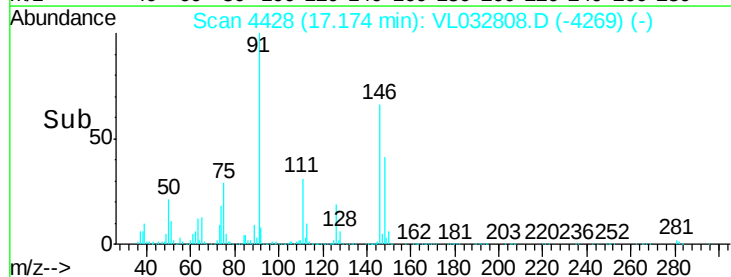
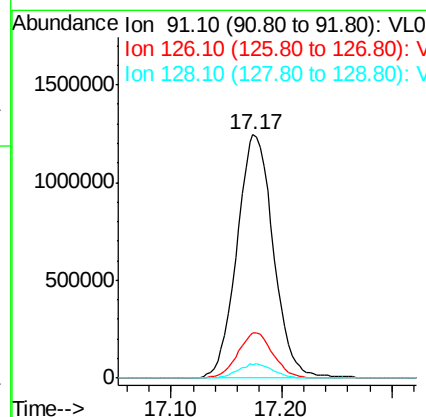
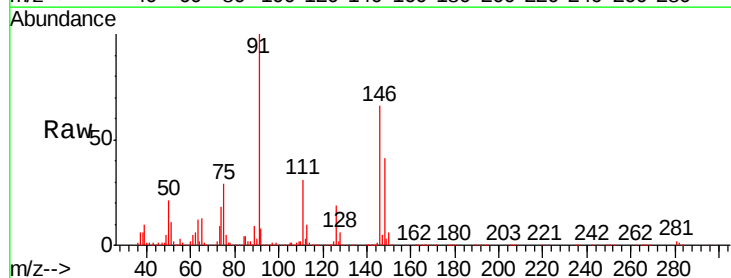
Manual Integrations  
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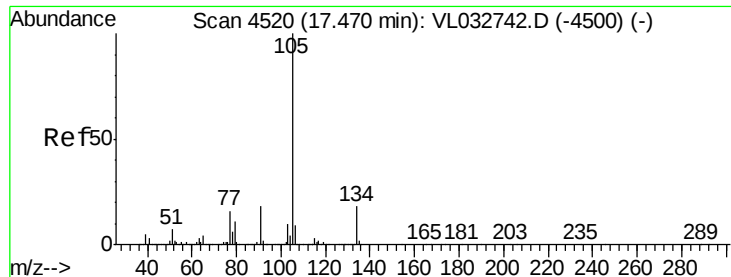
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#66  
 Benzyl Chloride  
 Concen: 10.87 ppbv  
 RT: 17.17 min Scan# 4428  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Tgt Ion: 91 Resp: 2835009  
 Ion Ratio Lower Upper  
 91 100  
 126 18.1 14.2 21.2  
 128 5.8 4.5 6.7





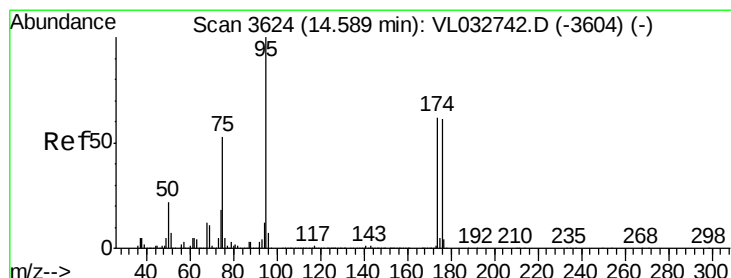
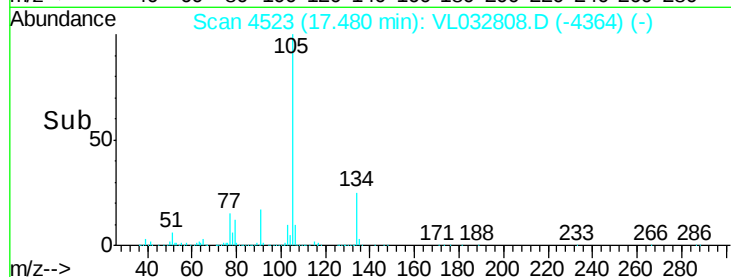
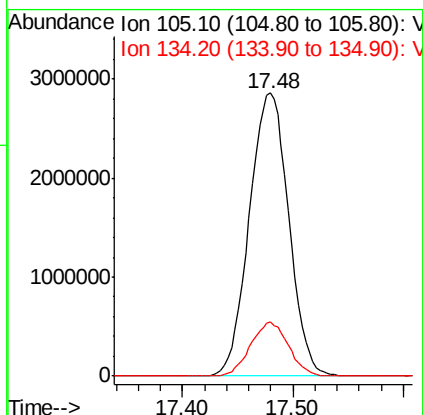
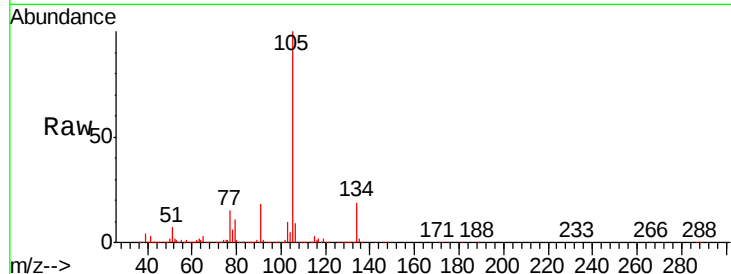
#67  
 sec-Butylbenzene  
 Concen: 10.40 ppbv  
 RT: 17.48 min Scan# 4523  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 105 Resp: 7068268  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 14.6 21.8

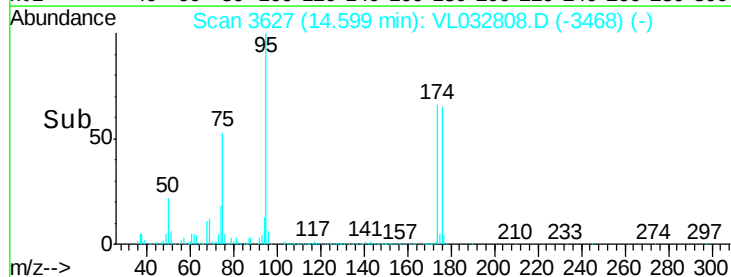
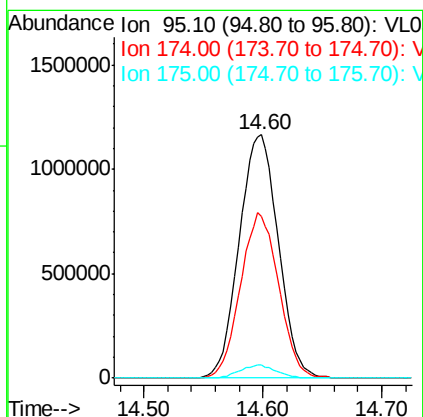
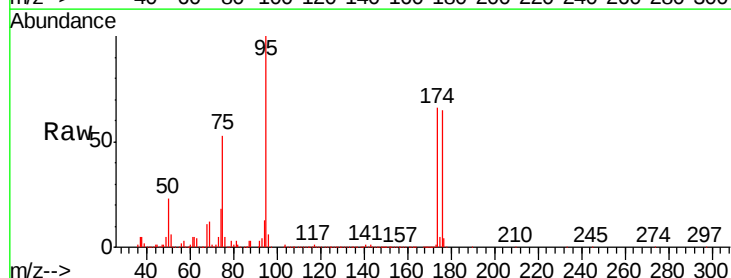
Manual Integrations  
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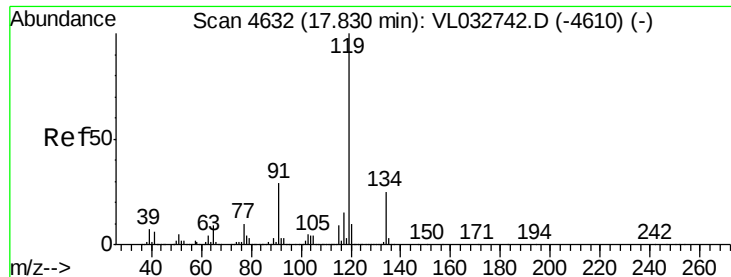
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#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.81 ppbv  
 RT: 14.60 min Scan# 3627  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Tgt Ion: 95 Resp: 2650387  
 Ion Ratio Lower Upper  
 95 100  
 174 66.8 50.7 76.1  
 175 5.0 3.8 5.6





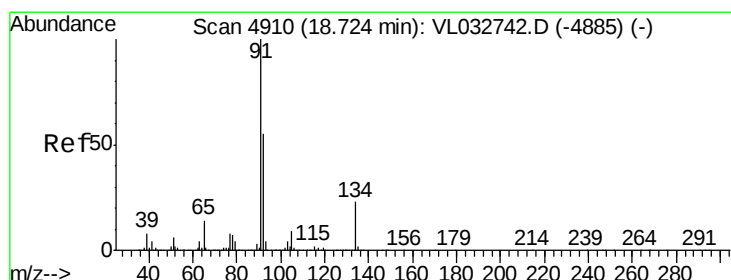
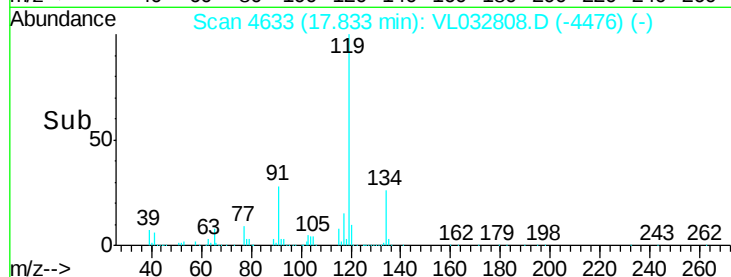
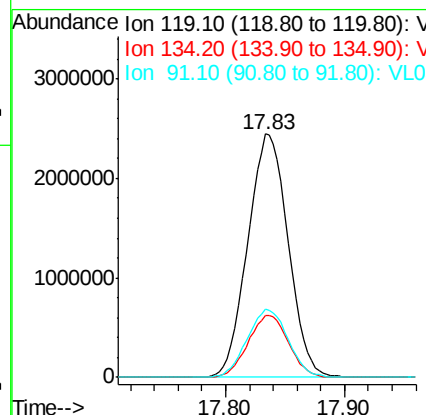
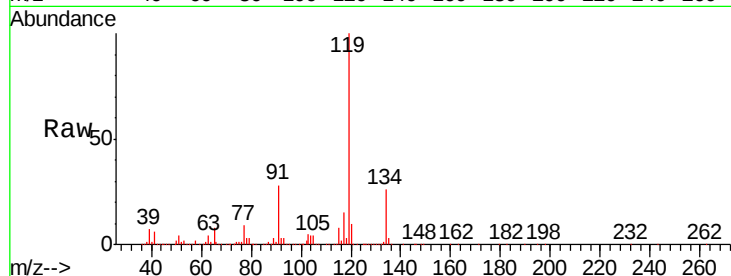
#69  
p-Isopropyltoluene  
Concen: 10.62 ppbv  
RT: 17.83 min Scan# 4633  
Delta R.T. 0.00 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 119 Resp: 5739702  
Ion Ratio Lower Upper  
119 100  
134 25.5 20.2 30.4  
91 28.3 23.5 35.3

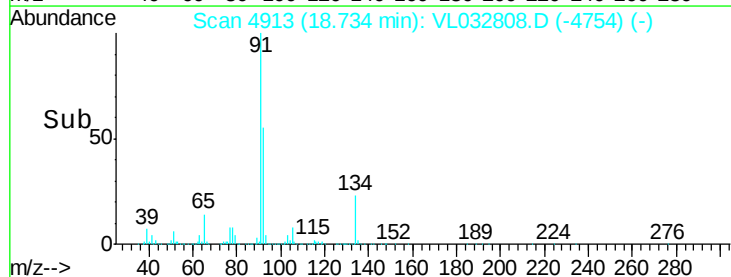
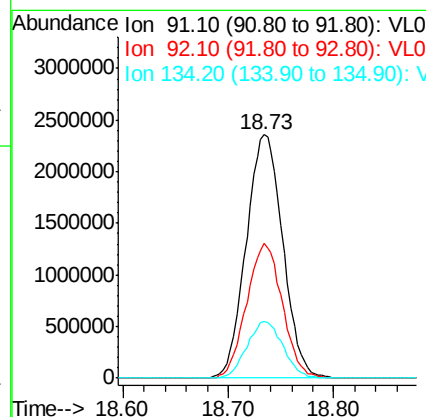
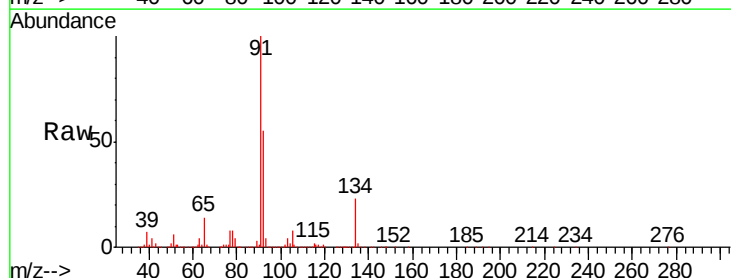
Manual Integrations  
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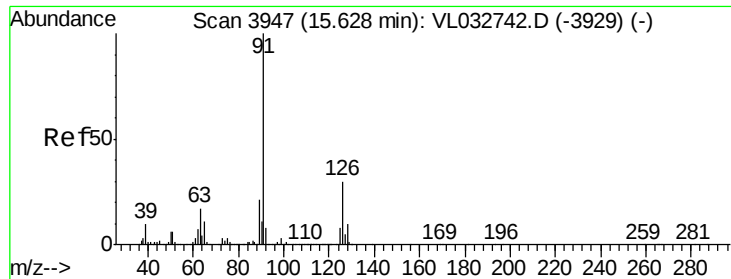
MMDadoda  
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#70  
n-Butylbenzene  
Concen: 10.39 ppbv  
RT: 18.73 min Scan# 4913  
Delta R.T. 0.01 min  
Lab File: VL032808.D  
Acq: 27 Nov 2018 14:14

Tgt Ion: 91 Resp: 5699992  
Ion Ratio Lower Upper  
91 100  
92 53.9 42.9 64.3  
134 22.9 17.8 26.8





#71

2-Chlorotoluene

Concen: 10.89 ppbv

RT: 15.64 min Scan# 3950

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 4271405

Ion Ratio Lower Upper

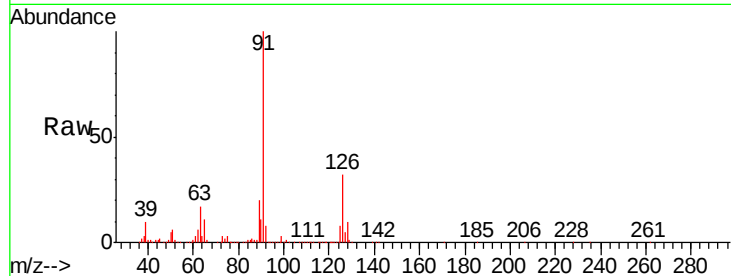
91 100

126 31.6 12.1 48.5

Manual Integrations  
APPROVED

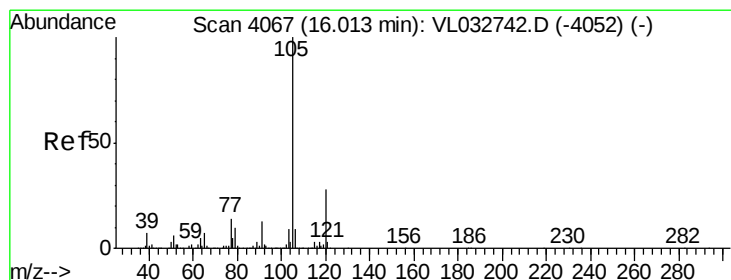
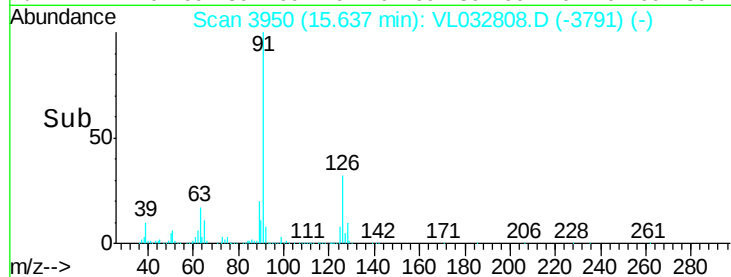
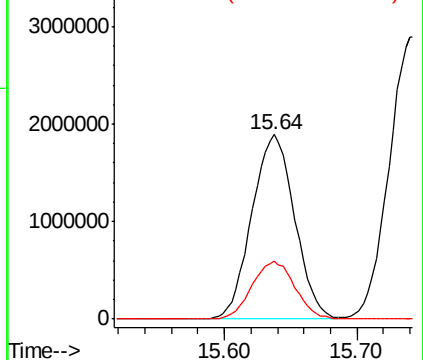
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.88 ppbv

RT: 16.02 min Scan# 4069

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Tgt Ion: 105 Resp: 4644107

Ion Ratio Lower Upper

105 100

120 29.4 22.9 34.3

91 12.8 10.6 15.8

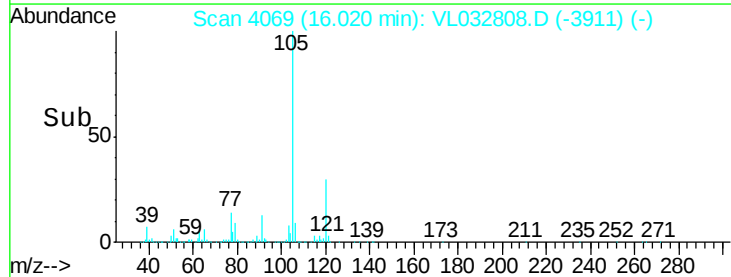
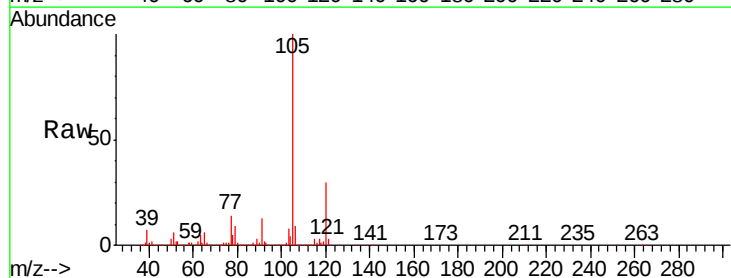
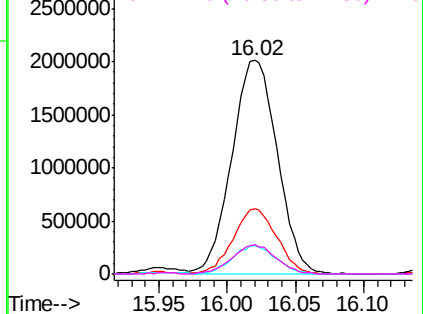
77 13.5 11.4 17.2

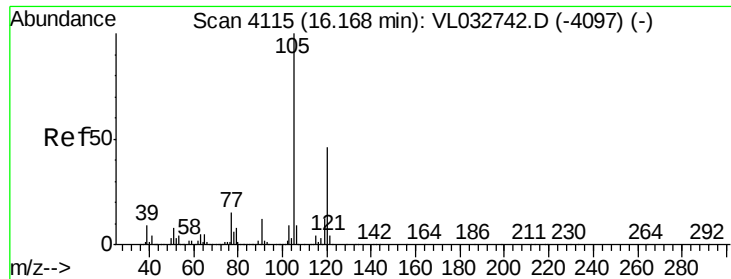
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





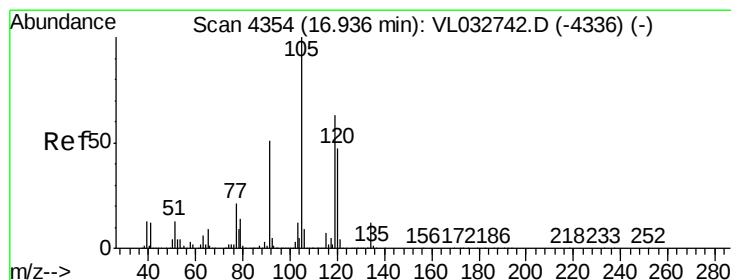
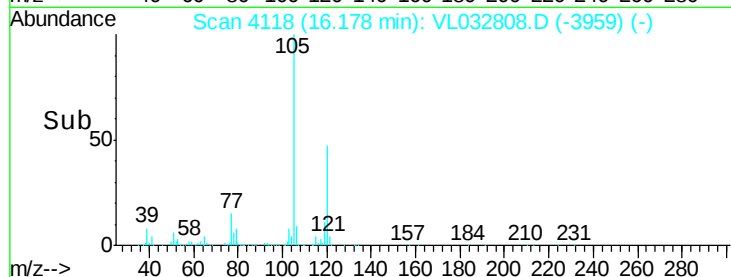
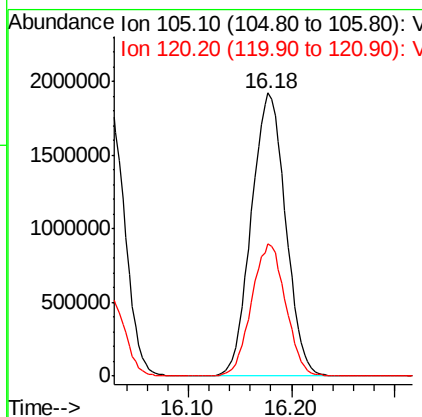
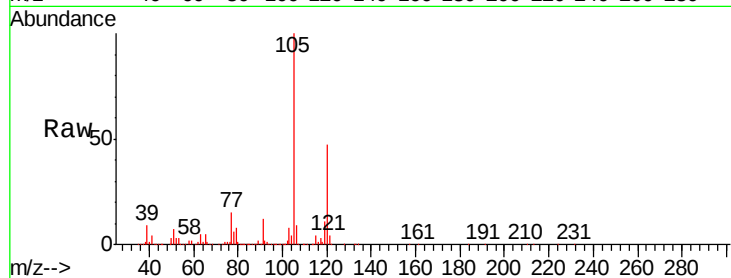
#73  
 1,3,5-Trimethylbenzene  
 Concen: 10.57 ppbv  
 RT: 16.18 min Scan# 4118  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:105 Resp: 4410778  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 36.6 55.0

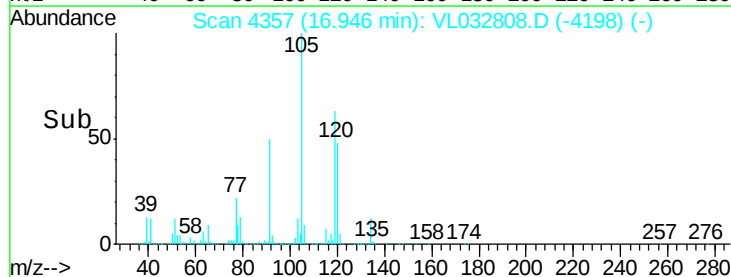
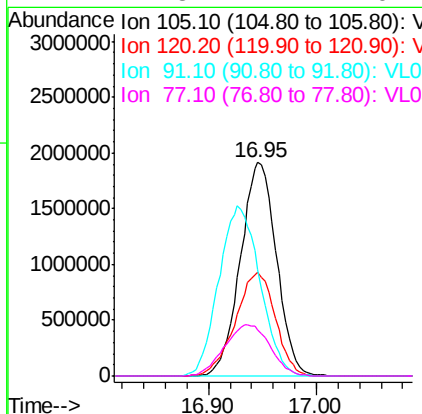
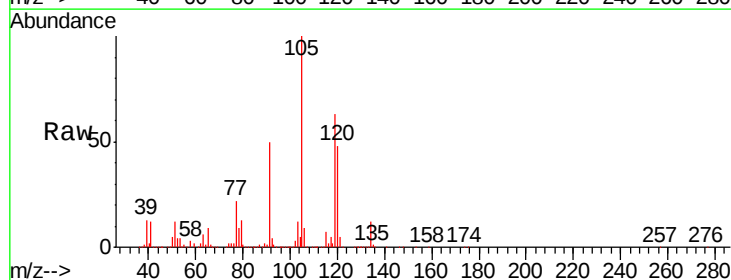
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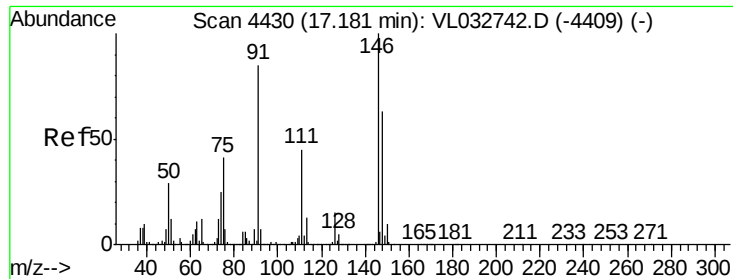
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#74  
 1,2,4-Trimethylbenzene  
 Concen: 9.98 ppbv  
 RT: 16.95 min Scan# 4357  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Tgt Ion:105 Resp: 4456638  
 Ion Ratio Lower Upper  
 105 100  
 120 48.2 37.6 56.4  
 91 49.6 42.5 63.7  
 77 21.8 17.4 26.2





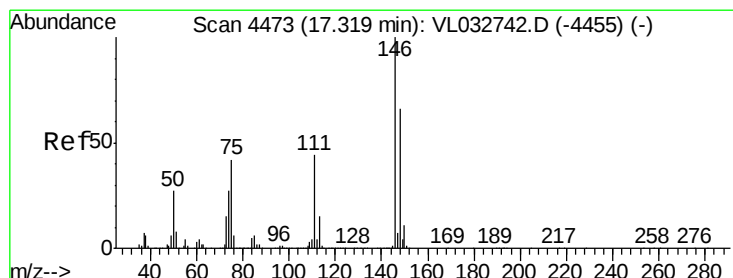
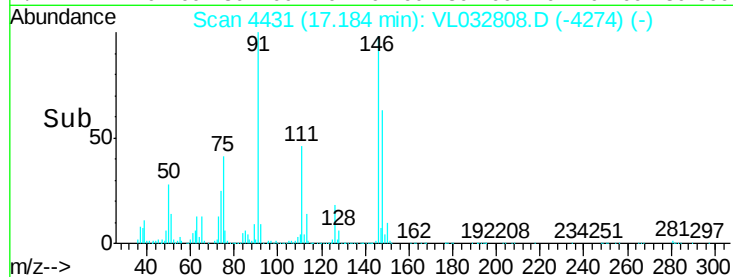
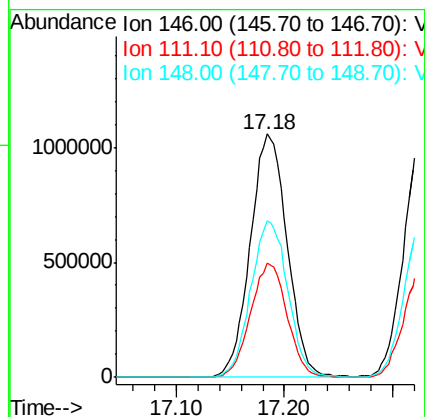
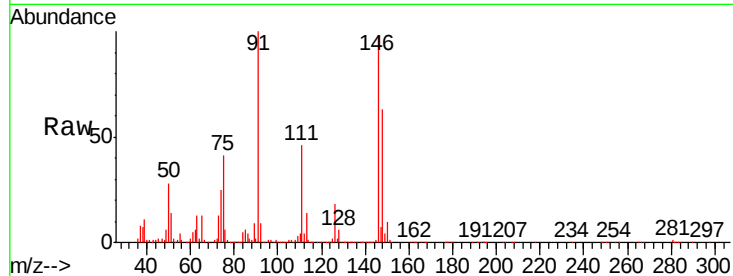
#75  
 1,3-Dichlorobenzene  
 Concen: 9.82 ppbv  
 RT: 17.18 min Scan# 4431  
 Delta R.T. 0.00 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:146 Resp: 2515674  
 Ion Ratio Lower Upper  
 146 100  
 111 46.7 23.5 70.6  
 148 64.5 31.8 95.3

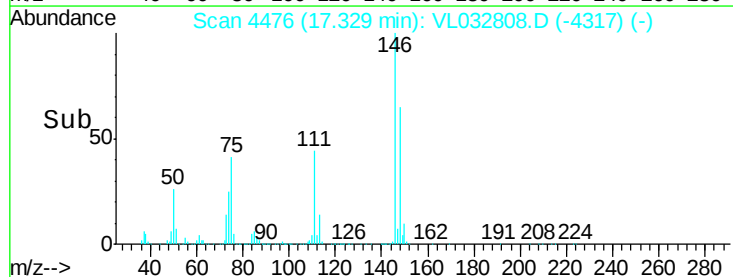
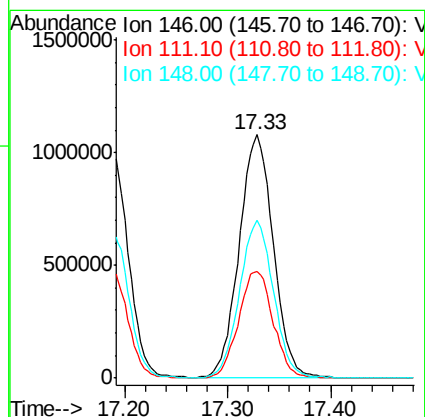
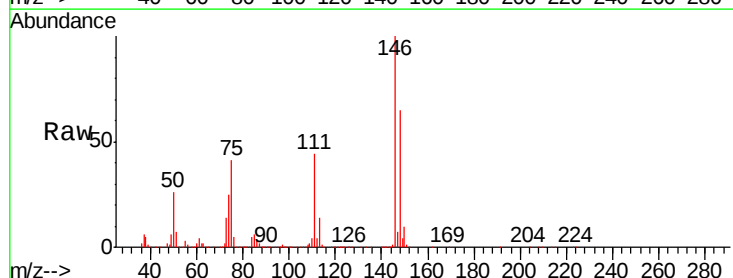
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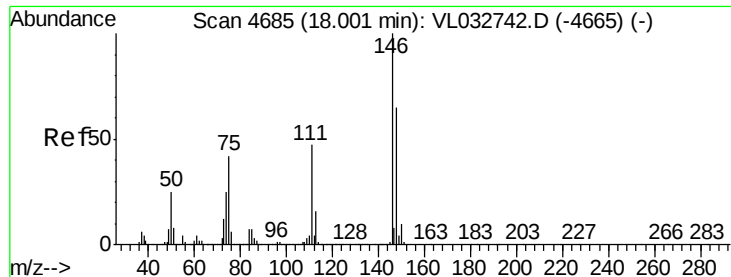
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#76  
 1,4-Dichlorobenzene  
 Concen: 10.34 ppbv  
 RT: 17.33 min Scan# 4476  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Tgt Ion:146 Resp: 2472894  
 Ion Ratio Lower Upper  
 146 100  
 111 44.8 22.5 67.5  
 148 64.8 32.5 97.5





#77

1,2-Dichlorobenzene

Concen: 10.24 ppbv

RT: 18.01 min Scan# 4687

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

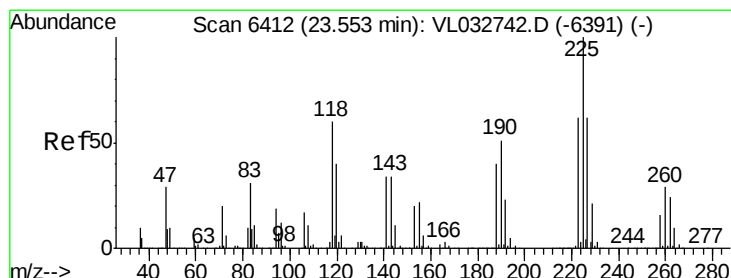
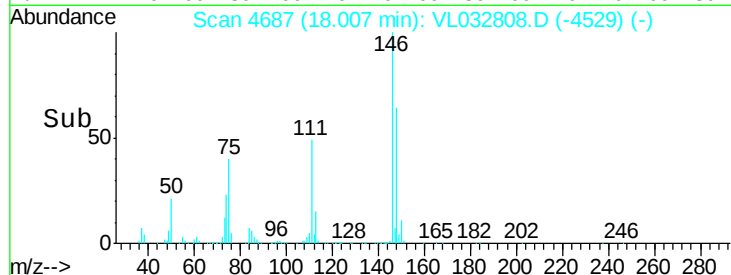
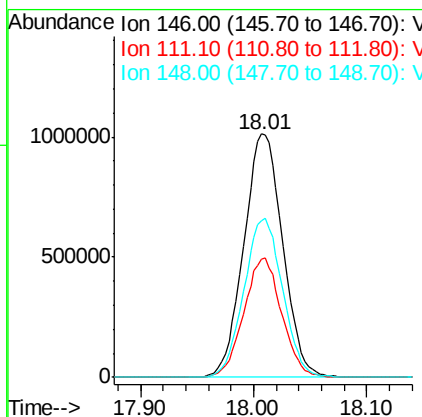
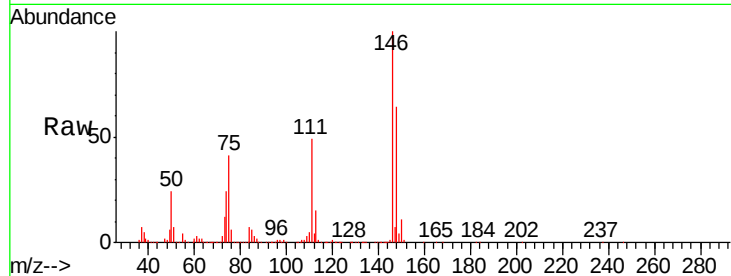
ClientSampleId :

VSTDCCC010

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 146   | Resp: | 2425131 |
| Ion Ratio | Lower | Upper |         |
| 146       | 100   |       |         |
| 111       | 47.7  | 24.4  | 73.2    |
| 148       | 64.9  | 32.2  | 96.6    |

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#78

Hexachloro-1,3-Butadiene

Concen: 7.95 ppbv

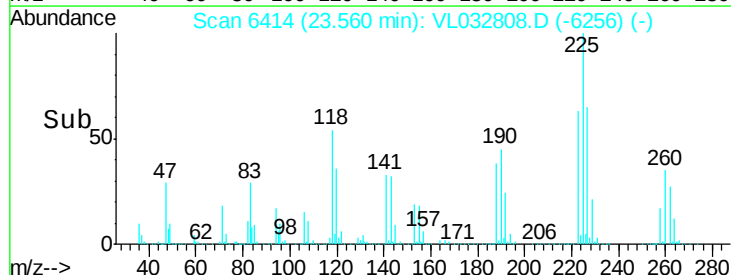
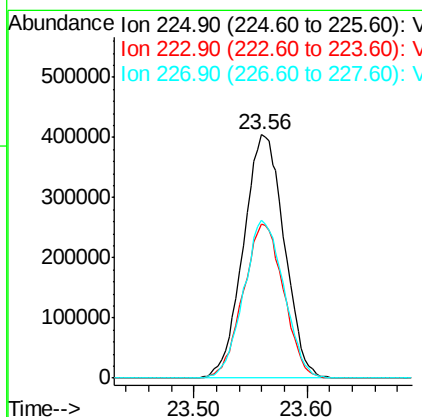
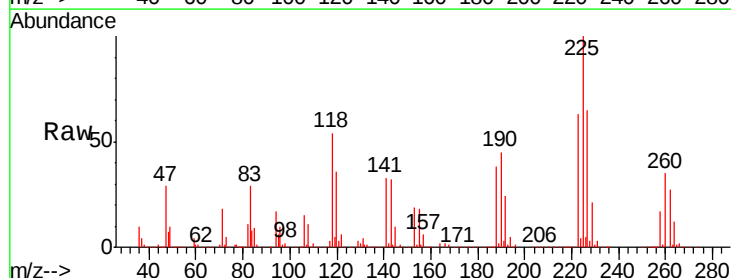
RT: 23.56 min Scan# 6414

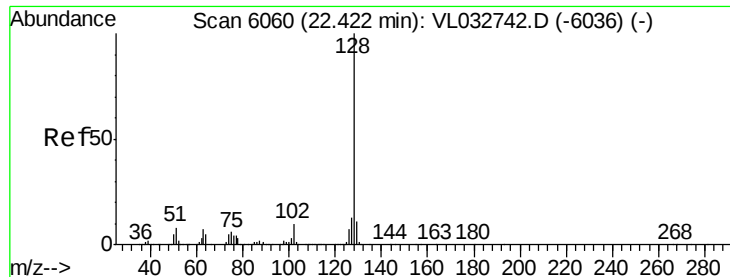
Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 225   | Resp: | 1016833 |
| Ion Ratio | Lower | Upper |         |
| 225       | 100   |       |         |
| 223       | 62.4  | 50.3  | 75.5    |
| 227       | 63.8  | 50.2  | 75.4    |





#79

Naphthalene

Concen: 11.18 ppbv

RT: 22.44 min Scan# 6065

Delta R.T. 0.02 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:128 Resp: 3279215

Ion Ratio Lower Upper

128 100

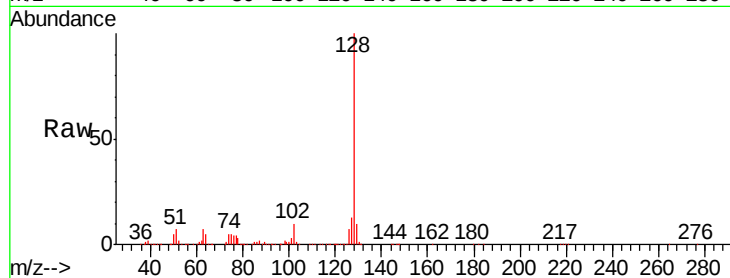
127 12.9 10.1 15.1

129 10.2 8.9 13.3

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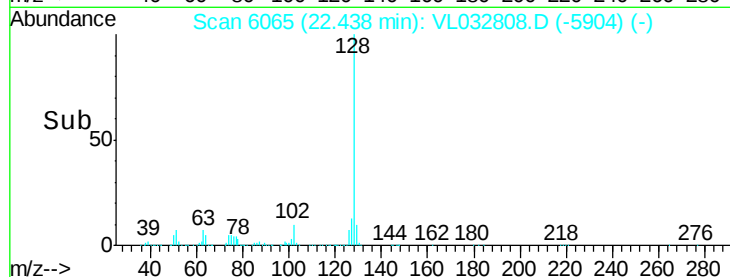


Abundance Ion 128.10 (127.80 to 128.80): V

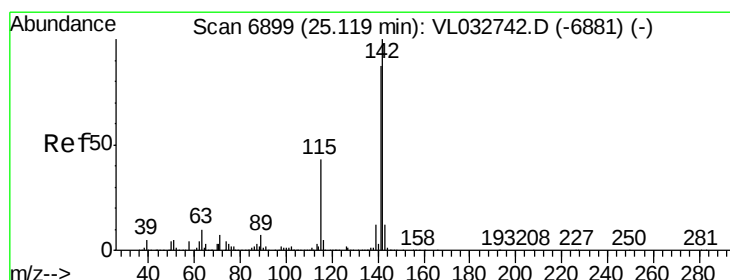
Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

Time-->



Time-->



#80

Naphthalene, 2-methyl-

Concen: 11.15 ppbv

RT: 25.13 min Scan# 6902

Delta R.T. 0.01 min

Lab File: VL032808.D

Acq: 27 Nov 2018 14:14

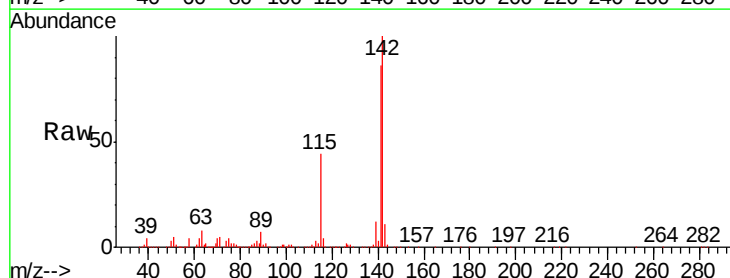
Tgt Ion:142 Resp: 819198

Ion Ratio Lower Upper

142 100

141 85.3 68.7 103.1

115 42.8 35.5 53.3

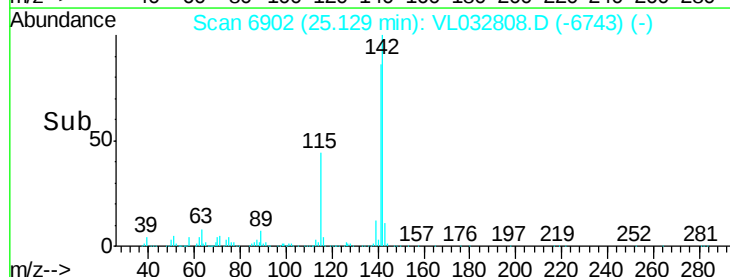


Abundance Ion 142.00 (141.70 to 142.70): V

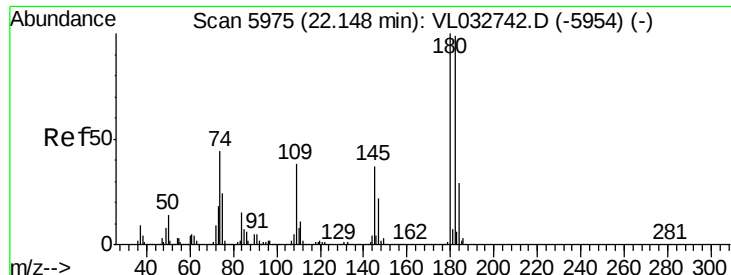
Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

Time-->



Time-->



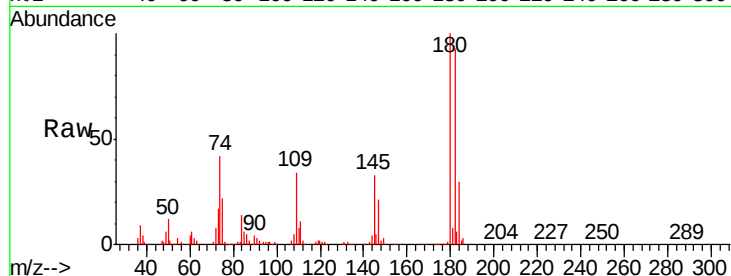
#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.92 ppbv  
 RT: 22.16 min Scan# 5979  
 Delta R.T. 0.01 min  
 Lab File: VL032808.D  
 Acq: 27 Nov 2018 14:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 77.3  | 115.9 |
| 184     | 30.4  | 24.2  | 36.4  |

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Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

